April 18, 2025

Dr. Lars Bildsten
Director, Kavli Institute for Theoretical Physics
University of California, Santa Barbara
Santa Barbara, California 93106
bildsten@kitp.ucsb.edu

SUBJECT: FOCUSED SOIL ASSESSMENT REPORT
APN 075-020-035, Isla Vista, CA 93117

1.0 INTRODUCTION

JHA Environmental, Inc. (JHA) is pleased to present this Focused Soil Assessment Report (Report) for the property identified as County of Santa Barbara Assessor Parcel Number (APN) 075-020-035, located at the southwest corner of the intersection of El Colegio Road and Camino Pescadero in Isla Vista, California 93117 (Site; Figures 1 and 2). This Focused Site Assessment was performed in response to a request by Mr. Ray Aronson, on behalf of Dr. Lars Bildsten and the University of California Santa Barbara (UCSB) Kavli Institute for Theoretical Physics (KITP). It is JHA's understanding that the Site is proposed for redevelopment by the UCSB KITP with a 45-60,000 square foot (ft^2) multilevel residential building.

2.0 BACKGROUND

A Phase I Environmental Site Assessment (Phase I ESA) was performed for the Site by Geosyntec Consultants, Inc. in November 2024 (Geosyntec 2024); while the Phase I ESA findings did not identify any "recognized environmental conditions" (RECs), De Minimis Conditions and other additional findings were reported associated with historical agricultural land use, soil stockpiling, vehicle parking, and natural oil seeps reported in the vicinity of the Site.

The Phase I ESA reported that the Site appeared to have been vacant pasture/agricultural land until the 1960s. In 1961 the southern portion appeared to have been used for soil stockpiling associated with the south-adjoining property. Since the 1970s the Site has generally remained vacant, although small structures were visible in the northeastern of the Site in 1967 and in the western portion of the Site from at least 2002 through 2009. Since 2006 the Site has been primarily used as an unpaved parking lot. Historical land use in the vicinity of the Site was reported to be grazing/agricultural followed by residential development.

The Phase I ESA findings stated the following De Minimis Conditions:

> *Historical Agricultural Land Use: Historical aerial photographs indicate that the Subject Property was cleared from approximately the 1920s through the 1950s for what appeared to be grazing and/or agriculture. Based on the timeframe of the observed clearings, it is possible that petroleum products or hazardous pesticides, herbicides, or fertilizer originating from biosolids that have the potential to contain hazardous substances were used on the Subject Property; however, no evidence of this usage or application was found as part of this Phase I ESA. Therefore, this finding is not a REC but rather a de minimis condition (Geosyntec 2024).*
>
> *Historical Stockpiling: Aerial photographs indicate that the southern portion of the Subject Property may have been used for soil stockpiling during development of adjoining properties. Based on the prior use of the adjoining properties as grazing/agricultural, with no evidence of releases having occurred, this finding represents a de minimis condition (Geosyntec 2024).*

The following "additional findings" were also reported in the Phase I ESA:

> *Vehicle Parking: The Subject Property has been vacant and in use for parking since at least circa 2006. While no evidence of surface staining associated with this use was identified during the site reconnaissance, noting that it was not possible to observe the full extent of the ground surface due to the presence of vehicles, any release that may have occurred historically would likely have infiltrated into the unpaved soil (Geosyntec 2024).*
>
> *Other Sources: Natural oil seeps are common in the area; however, based on a soil investigation performed on the north adjoining property in 2012, where evidence of petroleum hydrocarbons was not detected in soil up to 25 feet below ground surface, the likelihood of significant impacts at the Subject Property is considered to be low (Geosyntec 2024).*

A due diligence assessment of shallow soil conditions was requested to confirm the Phase I ESA findings before redevelopment grading activities. It is JHA's understanding that grading and/or excavation is anticipated to a maximum depth of approximately 5 feet below ground surface (bgs).

3.0 Objective

The objective of this Focused Soil Assessment is to screen shallow soil for the presence of potential subsurface impacts from historical uses and/or natural sources. Based on the site background it is anticipated that the potential constituents of concern (COCs) in shallow soil are total petroleum hydrocarbons (TPH) and associated volatile organic compounds (VOCs), including the aromatic petroleum hydrocarbons (benzene, toluene, ethylbenzene and xylenes), and /or heavy metals associated with historical soil stockpiling, vehicle parking (motor oil), and natural oil seeps. While the Phase I ESA identified the potential use of pesticides, herbicides, and/or fertilizer at the Site, no evidence of their application or storage was reported, and the agriculture use they were associated with ceased in the 1960s; residual impacts from these

potential COCs would have likely degraded over the previous 60 years, therefore JHA did not recommend testing for these compounds.

5.0 FOCUSED SOIL ASSESSMENT

JHA advanced fifteen (15) soil borings to a maximum depth of 10-feet bgs using a direct-push GeoProbe rig; the locations of the borings are shown on Figure 2. A continuous core of soil was recovered from each boring for visual inspection and field screening using a photoionization detector (PID). A total of 3 soil matrix samples were collected from each boring for submittal to the laboratory; 15 of the soil matrix samples (one sample per boing) were selected for initial laboratory analyses of TPH based on the field observations and PID results.

5.1 Pre-Field and Non-Invasive Utility Clearance Activities

The locations were pre-marked with white stakes, and Underground Service Alert (Dig Alert of Southern California) was notified on February 26, 2025, to mark the locations of public utilities at the site (Dig Alert # A250570667-00A). Additionally, Ground Penetrating Radar Systems, LLC (GPRS) was contracted to clear the locations of private utilities and other potential subsurface conflicts prior to drilling each location on March 7, 2025. JHA developed a site-specific Health and Safety Plan (HASP) that was followed by all personnel working on-site. Additionally, a soil boring permit was obtained from the Santa Barbara County Public Health Department (SBCPHD; Appendix A), which is required for borings greater than 5 feet in depth.

5.2 Assessment Methodology

Drilling services were provided by JHA Remediation LLC (California C57 License No. 992101) on March 7, 2025. At each boring location a track-mounted GeoProbe drill rig advanced a stainless-steel sampler equipped with acetate liners into the ground surface up to 10 feet bgs, and continuous cores of soil were recovered for visual inspection and field screening using a PID. A total of 45 soil matrix samples were collected from the fifteen borings (3 soil matrix samples from each boring) for submittal to a state-certified stationary laboratory. The default depths for soil matrix samples were approximately 6 inches, 2.5 feet, and 5 feet below ground surface (bgs), although the final depths were determined in the field based on visual observations and PID measurements; 15 of the soil matrix samples (one sample per boing) were selected for initial laboratory analyses. All 45 soil matrix samples were transferred from the liners to 8-ounce laboratory-supplied glass jars. Subsampling was also performed with Terra Core Samplers for potential analysis of VOCs in accordance with EPA Sampling Method 5035. The soil samples were labeled and placed in an ice chest pending laboratory analysis under chain of custody protocol. Following sampling, each boring location was backfilled with granular bentonite hydrated to approximately 5 feet bgs, followed by uncontaminated soil cuttings to the surface. Boring logs documenting soil characteristics, headspace readings with a PID, and sample intervals were recorded for each location by a registered California Professional Geologist.

Laboratory Methodology

Fifteen of the 45 soil matrix samples (one per boring) were selected for initial analysis of TPH carbon chain (TPH-cc) using EPA Test Method 8015M, based on visual observations and PID measurements. Additional analyses for VOCs using EPA Test Method 8260B and/or heavy metals using EPA Test Method 6010B were contingent on the initial TPH results. The remaining 30 soil matrix samples were placed on hold for potential analysis of TPH-cc, VOCs, and metals. All analyses were conducted under a standard 10-day turnaround time (TAT).

5.3 Assessment Results

Native soils encountered during drilling consisted of very dark gray, medium plasticity clay with trace amounts of sand and fines from the surface to approximately 4 feet bgs. The clay increased in stiffness and sand/silt content, becoming mottled with yellowish brown at approximately 4 feet bgs. This was followed by yellowish brown silty sand starting at approximately 5-6 feet, extending to approximately 8.5-9.5 feet bgs, and then a light brownish gray sand extending to the total explored depth of 10 feet bgs. The soils were slightly moist to moist throughout, with no indication of groundwater to the total depth of 10 feet bgs. Soil screening grab samples were collected at 0.5, 2.5, 5.0, and 10 feet bgs, placed in clean air-tight plastic bags, and left to volatilize. A calibrated PID was used to measure volatile compounds in the bag headspace. All PID readings were 0.0 parts per million (ppm). Boring logs are provided in Appendix B.

A total of 15 soil samples were selected for the initial analysis of TPH-cc and TPH as diesel range organics (TPH-d) using US EPA Test Method 8015B. The results indicated that all soil samples were below the laboratory detection limit of 4.5/4.6 mg/kg for discrete carbon ranges (C6, C7, C8, C9-C10, C11-C12, C13-C14, C15-C16, C17-C18, C19-C20, C21-C22, C23-C24, C25-C28, C29-C32, C33-C36, C37-C40, and C41-C44). However, six samples were reported with concentrations of total TPH-cc (C6-C44) exceeding laboratory detection limits, ranging from 5.0 mg/kg (DP-11-2.5') to 13 mg/kg (DP-7-0.5'). Additionally, three of these samples were reported with concentrations of TPH-d) exceeding laboratory detection limits, ranging from an approximate value of 4.6J mg/kg (DP-11-2.5'; see J value definition in Table 1) to 7.6 mg/kg (DP-7-0.5'). Based on the minimal TPH-cc and TPH-d concentrations reported in the initial 15 soil samples, JHA did not recommend further analysis of VOCs or heavy metals in these samples, or TPH, VOCs, or heavy metals in the additional 30 soil samples currently on hold at the laboratory. The TPH-cc and TPH-d analytical results are provided in Table 1. The laboratory reports are provided in Appendix C.

6.0 CONCLUSIONS AND RECOMMENDATIONS

All detected concentrations of TPH-cc and TPH-d are well below applicable 2019 Tier 1 (most recent and conservative) San Francisco Bay-Regional Water Quality Control Board (SFB-RWQCB) Environmental Screening Levels (ESLs) and 2022 California Department of Toxic Substances Control (DTSC) Human Health Risk Assessment (HHRA) Note 3 recommended screening levels (SLs); screening levels under a residential use scenario were used for comparison. Based on the minimal TPH-cc and TPH-d concentrations reported in the initial 15 soil samples, JHA did not recommend further analysis of VOCs or heavy metals in these samples, or TPH, VOCs, or heavy metals in the additional 30 soil samples currently on hold at the laboratory.

The 2019 Tier 1 SFB-RWQCB divides TPH into gasoline range organics (GRO) with carbon chains C6-C-12, diesel range organics (DRO) with carbon chains C13-C28, and oil range organics (ORO) with carbon chains C28-C36 with ESLs of 100 mg/kg, 260 mg/kg, and 1,600 mg/kg, respectively. The 2022 DTSC HHRA Note 3 divides TPH into “aromatic medium” with carbon chains C9-C16 and “aromatic high” with carbon chains C17-C32 with residential (most conservative) screening levels of 97 mg/kg and 2,400 mg/kg, respectively. All of the reported TPH concentrations are well below the carbon chain groupings listed in the 2019 Tier 1 SFB-RWQCB and 2022 DTSC HHRA Note 3 screening levels. The TPH data is summarized in Table 1 and laboratory reports are provided in Appendix C.

JHA recommends that no further assessment is warranted at the Site based on a comparison

between the data collected and summarized above, and the SFB-RWQCB and DTSC screening levels for the detected concentrations of TPH.

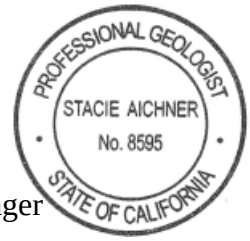
7.0 CLOSURE

If there are any questions or concerns regarding this report or documentation, please contact Mr. Chad Jenkins at (949) 453-1054 or Ms. Stacie L. Aichner at (805) 832-0718.

Sincerely,

JHA Environmental, Inc.

Chad Jenkins, EIT, CEM
Senior Project Manager



Stacie L. Aichner, PG #8595
Senior Geologist/Project Manager

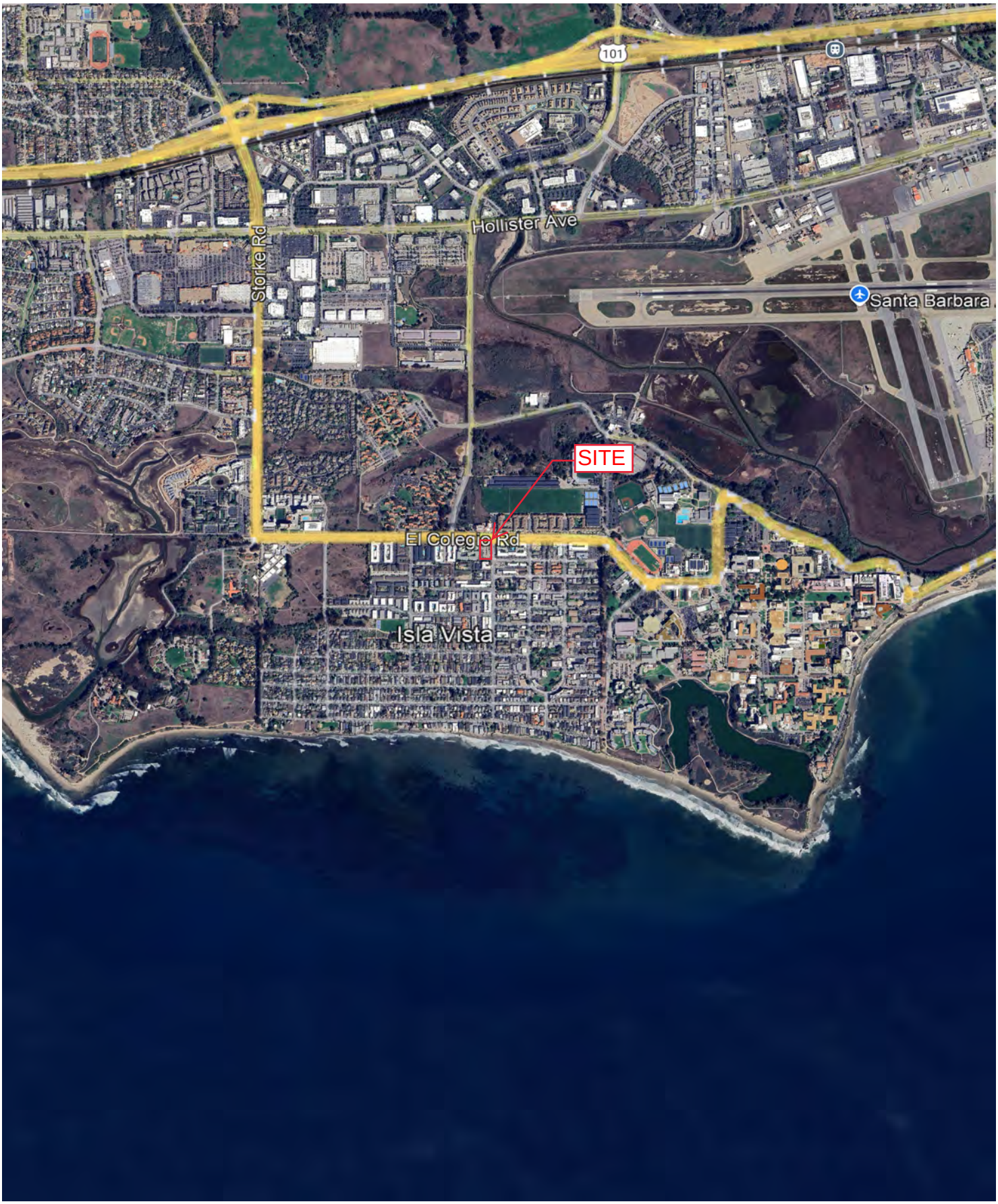
ATTACHMENTS

Figure 1 – Site Vicinity Map
Figure 2 – Site Map
Table 1 – Soil Analytical Results - Total Petroleum Hydrocarbon (TPH)
Appendix A – Santa Barbara County Public Health Department Boring Permit
Appendix B – Boring Logs
Appendix C – Laboratory Analytical Reports

REFERENCES

Geosyntec Consultants, LLC (Geosyntec 2024) *Phase I Environmental Site Assessment, Subject Property: Santa Barbara County, APN 075-020-035, Isla Vista, CA 93117*. November 2024

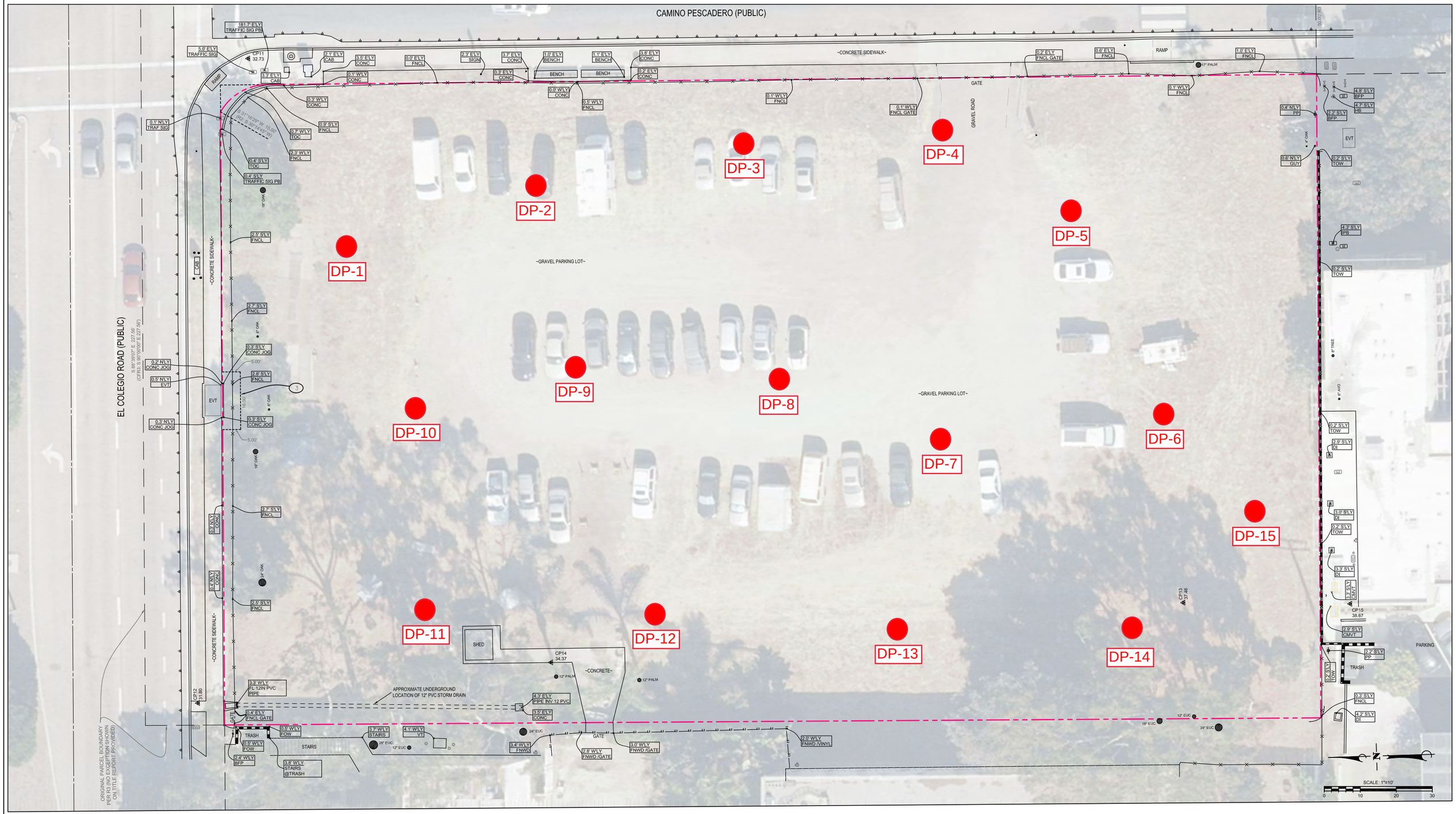
FIGURES



JHA ENVIRONMENTAL, INC.
15375 BARRANCA PARKWAY, SUITE #J-101
IRVINE, CALIFORNIA 92618
PHONE: (949) 453-1045 FAX: (949) 453-1047

FIGURE 1 - SITE LOCATION MAP

KITP HOUSE PROJECT
APN 075-020-035, ISLA VISTA, CA 93117



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LEGEND

DP-15 SOIL BORING AND DESIGNATION (10 FEET BELOW GROUND SURFACE)

FIGURE 2 - SITE MAP

KITP HOUSE PROJECT
APN 075-020-035, ISLA VISTA, CA 93117

TABLES

Table 1
Soil Analytical Results -Total Petroleum Hydrocarbons
UCSB - KITP, APN 075-020-035, Isla Vista, CA 93117

Location/ Depth Sample ID	Date	C6 (mg/kg)	C7 (mg/kg)	C8 (mg/kg)	C9-C10 (mg/kg)	C11-C12 (mg/kg)	C13-C14 (mg/kg)	C15-C16 (mg/kg)	C17-C18 (mg/kg)	C19-C20 (mg/kg)	C21-C22 (mg/kg)	C23-C24 (mg/kg)	C25-C28 (mg/kg)	C29-C32 (mg/kg)	C33-C36 (mg/kg)	C37-C40 (mg/kg)	C41-C44 (mg/kg)	C6-C44 Total (mg/kg)	TPH-d C10-C28 (mg/kg)
DP-1-5'	03/07/25	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	4.5J	<4.5
DP-2-7'	03/07/25	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6
DP-3-2.5'	03/07/25	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	**5.2**	<4.6
DP-4-5'	03/07/25	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5
DP-5-10'	03/07/25	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	**5.8**	<4.5
DP-6-2.5'	03/07/25	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6
DP-7-0.5'	03/07/25	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	**13**	**7.6**
DP-8-5'	03/07/25	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	**10**	<4.6
DP-9-7'	03/07/25	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5
DP-10-2.5'	03/07/25	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6
DP-11-2.5'	03/07/25	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	**5.0**	4.6J
DP-12-5'	03/07/25	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6
DP-13-5'	03/07/25	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5
DP-14-0.5'	03/07/25	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	**8.0**	**5.2**
DP-15-5'	03/07/25	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6

SFB-RWQCB ESLs[b]	GRO ***100 mg/kg***						DRO ***260 mg/kg***						ORO ***1,600 mg/kg***						
DTSC HHRA Note 3[c]				aromatic medium ***97 mg/kg***				aromatic high ***2,400 mg/kg***											

notes:
Analysis performed: EPA Test Method 8015B SW846 total petroleum hydrocarbons (TPH) carbon chain and diesel range organics (dro). See laboratory reports for details.
b = San Francisco Bay Regional Water Quality Control Board (SFB-RWQCB) Environmental Screening Levels (ESLs) Tier 1, 2019. Most conservative screening level in mg/kg for each grouping in bold italics:
Gasoline Range Organics (GRO) C6 - C12; Diesel Range Organics (DRO) C13 - C28; Oil Range Organics (ORO) C28 - C36
c = California Department of Toxic Substances Control (DTSC) Human Health Risk Assessment (HHRA) Note 3, June 2020, revised May 2022. Most conservative screening level in mg/kg for each grouping in bold italics:
Aromatic Medium C9 - C16 and Aromatic High C17 - C32
C9 = carbon chain length
TPH-d = Total Petrolerum Hydrocarbons, Diesel Range Organics [C10-C28]
mg/kg = milligrams per kilogram
<4.9 = not detected above method detection limit (MDL)

APPENDIX A

Santa Barbara County Public Health Department Boring Permit

Santa Barbara County PUBLIC Health DEPARTMENT

Environmental Health Services
225 Camino Del Remedio, Santa Barbara, CA. 93110 ◆(805) 681-4900
2125 S. Centerpointe Pkwy., #333 ◆ Santa Maria, CA 93455-1340 ◆ (805) 346-8460

GEOTECHNICAL AND ENVIRONMENTAL SOIL BORING PERMIT APPLICATION

TYPE OF PERMIT (*Please check the appropriate box below*)

☐ Soil Boring Destruction	$ 365 per boring	Hourly Rate of $161 may be charged for excess time
■ Single Parcel Boring Destruction	$535 – multiple borings at same parcel on same day	Hourly Rate of $161 may be charged for excess time
☐ 12-Month Multi-parcel Boring Destruction	$2,308 – unlimited borings	Must be C-57 Licensed to qualify. Hourly Rate of $161 may be charged for excess time
☐ Check Box if these are additional borings on a previous 12-Month Multi-parcel permit.		

FOR OFFICE USE ONLY
Rec'd Date: 2/24/2025
Rec'd By: TMR
Permit #: A20146
W/P #: EH-LUA-25-000094
SR#: N/A
P/E #: 4693
Hazmat Site #: non site

Required Attachments: Plot plan indicating the location of the borings with respect to the following items:

1. Property lines.
2. Below grade utilities, piping, USTs, etc.
3. Access roads and easements (water, sewer, utility, roadway)
4. Existing and/or proposed structures.
5. Areas or sources of known or suspected contamination.
6. Sewage disposal systems or works carrying or containing sewage or industrial wastes within the vicinity of proposed borings.
7. All perennial, seasonal, natural, or artificial water bodies or watercourses, if applicable.

OWNER INFORMATION or MULTI-PARCEL PERMIT HOLDER (MPP) INFORMATION:

Owner or MPP Name (Required): University of California, Santa Barbara Primary Phone (714) 421-2377

Owner Mailing Address: 6789 Navigator Way, 2nd Floor, Goleta CA 93117
Street Number and Street Name City State/ Zip Code

If MPP Holder, Permit#_____ **Permit Date:** _____ **C-57 License #**_____

Complete this section if the person coordinating this project is other than the Boring Owner (e.g., driller, contractor, etc.)

Project Coordinator/Certified Professional Name: Chad Jenkins (JHA Environmental, Inc.)

Mailing Address: 15375 Barranca Parkway, Suite J-101, Irvine, CA 92618
Street Number and Name City State / Zip Code

Primary Phone: (714) 421 - 2377 Email: cjenkins@jhainc.com

BORING INFO: Type: ■ Environmental ☐ Geotechnical ☐ Other _____

Boring Location: No Address: SW corner at the intersection of El Colegio Road and Camino Pescadero, Isla Vista, California 93117
Street Number and Street Name City State/ Zip Code

Alternate Highway/Road: _____ Direction: ____ Milepost: _____ Lat: _____ Lon: _____

Boring Location's Assessor's Parcel Number (APN): 075 - 020 - 035

Drilling Method: ☐ Hollow Stem Auger ☐ Mud Rotary ☐ Air Rotary ☐ Sonic ■ Direct Push ☐ Other _____

Proposed Depth 10 ft.
Bore Hole Dia. 2.25 in.
Sealing Material: ■ Clay
☐ Neat Cement ☐ Cement Grout
Boring ID# DP-1 through DP-15

Boring Use (Check ALL that apply)

■ Soil Sampling ☐ Soil Vapor Sampling ☐ Groundwater Sampling ☐ Remedial Injections
☐ Geotechnical ☐ Other Additional Work Description: Soil sample borings

LEGAL DECLARATION

LICENSED CONTRACTOR DECLARATION

I hereby affirm that I am licensed under the provisions of Chapter 9 (commencing with Sec. 7000) of Division 3 of the Business and Professions Code (B. & P.C.) as a well drilling contractor (C-57 license) and such license is in full force and effect.

Jay K. Jensen	Jay Jensen	2/24/2025
Print Name of Driller	Signature of Driller	Date

Lic. No.: 992101 Exp. 4/30/2026 Office Telephone 949 453-1045 Cell Phone: 949 358-5935

Business Name: JHA Environmental, Inc. Address 15375 Barranca Parkway, Suite J-101, Irvine, CA 92618

(Complete 'A' or 'B')

A. WORKERS' COMPENSATION DECLARATION

I hereby affirm one of the following:

☐ I have and will maintain a certificate of consent to self-insure for workers' compensation, as provided for by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued.

☒ I have and will maintain workers' compensation insurance, as provided for by Section 3700 of the Labor Code, for the performance of work for which this permit is issued. My insurance carrier and policy number are:

Carrier AssuredPartners Design Professionals Insurance Services, LLC Policy No. 57WEGAJ8LUZ

Applicant Signature Digitally signed by Chad Jenkins Date: 2025.02.24 11:13:12 -08'00' Date 2/24/2025

B. CERTIFICATION OF EXEMPTION FROM WORKERS' COMPENSATION INSURANCE

I certify that in the performance of work for which this permit is issued, I shall not employ any person in a manner so as to become subject to the Worker's Compensation Laws of California.

Applicant Signature _____ Date _____

Notice to Applicant: If, after making this Certificate of Exemption, you should become subject to the Worker's Compensation provisions of the Labor Code, you must forthwith comply with such provisions or this permit shall be deemed revoked.

When signed by an Env. Health or Haz Mat Specialist or Professional Geologist, this application shall be deemed a permit only for the work described. You are responsible for obtaining all other permits required from other agencies, prior to implementing this work. THIS PERMIT IS VALID FOR ONE YEAR FROM THE DATE OF ISSUANCE FOR THE WORK APPROVED HEREIN. No changes from the approved plan are permitted without prior written approval by Environmental Health Services (EHS). Final clearance will not be issued until all fees are paid and a copy of the drillers log is submitted to EHS.

I hereby agree to comply with all regulations of the County of Santa Barbara and California Well Standards pertaining to boring destruction and inactivation. The property owner, boring driller, or agent will furnish EHS a copy of a completed boring log upon completion of boring destruction.

I certify that I have read this application and declare under penalty of perjury that the information contained herein is true, correct and complete. I hereby authorize representatives of EHS to enter the premises for the purpose of inspecting the site and work described herein for compliance with county requirements.

REQUIRED INSPECTIONS: After permit approval, and prior to covering any components, an inspection must be scheduled directly with the approving Env. Health or Haz Mat Specialist or Professional Geologist at least two (2) business days in advance for:

- ✓ The destruction of boring(s);
- ✓ Any operation stipulated on the permit to address special or unusual conditions.

Signed Chad Jenkins Digitally signed by Chad Jenkins Date: 2025.02.24 11:14:08 -08'00' 2/24/2025

Applicant (Print Name) Applicant's Signature Date

APPLICATION DISPOSITION: ☒ Approved ☐ Denied

Signed _____ 2/25/2025

Env. Health Specialist / Haz Mat Specialist / Professional Geologist **Date**

FOR DEPARTMENT USE ONLY

Fixed Fee Rec'd: by: CB **Date:** 2/26/2025 **Amt.$** 535.00 ☐ **Cash** ☐ **Check #** N/A

☐ **Credit Card #** 5886 **Receipt No.:#:** 2190793

Permit Conditions: Backfill borings per California Well Standards, Bulletin 74-90, Monitoring Wells, Part III , Section 19(B)

Table of Multiple Borings for Either Single parcel or 12-Month Multi-parcel Permits

Boring ID	Proposed Total Depth (feet)	SR# (EHS Data Entry)
DP-1	10	
DP-2	10	
DP-3	10	
DP-4	10	
DP-5	10	
DP-6	10	
DP-7	10	
DP-8	10	
DP-9	10	
DP-10	10	
DP-11	10	
DP-12	10	
DP-13	10	
DP-14	10	
DP-15	10	

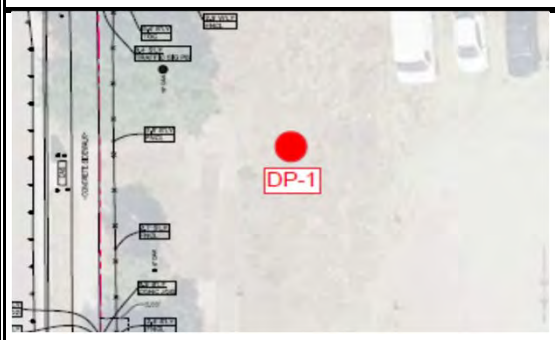
APPENDIX B

BORING LOGS

JHA ENVIRONMENTAL

Boring ID#: DP-1

Sheet: 1 of 1



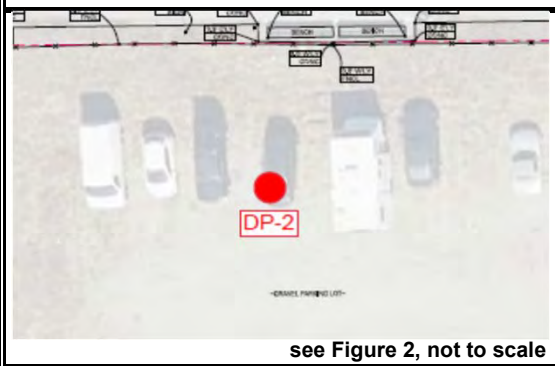
see Figure 2, not to scale

Project: UCSB - KITP	
Concrete Core/Hand Auger Date: N/A	**Time:** N/A
Contractor: N/A	**Core Diameter:** N/A
Boring Completion Date: 03/07/25	**Time:** 1130 - 1150
Rig Type: GeoProbe 7822	**Sampling Method:** continuous core
Contractor: JHA Remediation, LLC	**Borehole Diameter:** 2.25"
Well Construction Completion Date: N/A	**Time:** N/A
Rig Type: N/A	**Construction Detail:** see below
Contractor: N/A	**Borehole Diameter:** N/A
SVE CONSTRUCTION **Casing Diameter:** N/A	**Screen Size/Depth:** N/A
Sand/Depth: N/A **Bent/Depth:** N/A	**Grout/Depth:** N/A
MW CONSTRUCTION **Casing Diameter:** N/A	**Screen Size/Depth:** N/A
Sand/Depth: N/A **Bent/Depth:** N/A	**Grout/Depth:** N/A
Surface Completion: left as previous, no patch	**Logged by:** S. Aichner

Sample Time	PID (ppmV)	Blow Count	Core Interval (feet)	Samples	Backfill Materials	Well Construction	Depth (feet)	USCS	Lithology Description
							0		Surface Conditions: unpaved, compact soil and weeds
1135	0.0	not applicable	continuous core	DP-1-0.5'	non-impacted soil cuttings and hydrated granular bentonite	not applicable	0.5	CL	**CLAY (CL)** 10YR 3/1 very dark gray, slightly moist, medium plasticity, medium stiff clay, trace sand and fines, micaceous
	0.0						2.5		
1140	0.0		continuous core	DP-1-5'			5		at 4 feet bgs **CLAY** grades to stiff and mottles with yellowish brown (10YR 5/6) silty sand
							5.5	SM	at 5.5 feet bgs **SILTY SAND (SM)** 10YR 5/6 yellowish brown, slightly moist, fine grained sand with silt, trace clay, micaceous
							6.5		at 6.5 feet bgs **SILTY SAND** grades to fine sand with trace silt, no clay
							9		at 9 feet bgs **SAND (SP)** 10YR 6/2 light brownish gray, moist, poorly graded fine sand, trace fines
1145	0.0			DP-1-10'			10	SP	Boring terminated at 10 feet bgs. No odors, staining or groundwater encountered.
							15		

JHA ENVIRONMENTAL

Boring ID#: DP-2



see Figure 2, not to scale

Project: UCSB - KITP

Concrete Core/Hand Auger Date: N/A **Time:** N/A

Contractor: N/A **Core Diameter:** N/A

Boring Completion Date: 03/07/25 **Time:** 1100 - 1130

Rig Type: GeoProbe 7822 **Sampling Method:** continuous core

Contractor: JHA Remediation, LLC **Borehole Diameter:** 2.25"

Well Construction Completion Date: N/A **Time:** N/A

Rig Type: N/A **Construction Detail:** see below

Contractor: N/A **Borehole Diameter:** N/A

SVE CONSTRUCTION **Casing Diameter:** N/A **Screen Size/Depth:** N/A

Sand/Depth: N/A **Bent/Depth:** N/A **Grout/Depth:** N/A

MW CONSTRUCTION **Casing Diameter:** N/A **Screen Size/Depth:** N/A

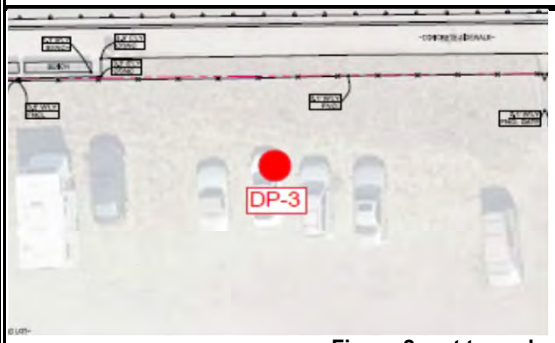
Sand/Depth: N/A **Bent/Depth:** N/A **Grout/Depth:** N/A

Surface Completion: left as previous, no patch **Logged by:** S. Aichner

Sample Time	PID (ppmV)	Blow Count	Core Interval (feet)	Samples	Backfill Materials	Well Construction	Depth (feet)	USCS	Lithology Description
							0		Surface Conditions: unpaved, compact soil and weeds
	0.0	not applicable	continuous core		non-impacted soil cuttings and hydrated granular bentonite	not applicable	0.5		**CLAY (CL)** 10YR 3/1 very dark gray, slightly moist, medium plasticity, medium stiff clay, trace sand and fines, micaceous
							1		
							1.5		
							2		
1105	0.0			DP-2-2.5'			2.5	**CL**	
							3		
							3.5		
							4		at 4 feet bgs **CLAY** grades to stiff and mottles with yellowish brown (10YR 5/6) silty sand
							4.5		
1115	0.0			DP-2-5'			5		at 5 feet bgs **SILTY SAND (SM)** 10YR 5/6 yellowish brown, slightly moist, fine grained sand with silt, trace clay, micaceous
							5.5		
							6		
							6.5		
1130				DP-2-7'			7	**SM**	at 7 feet bgs **SILTY SAND** grades to fine sand with trace silt, no clay
							7.5		
							8		
							8.5		
							9		at 9 feet bgs **SAND (SP)** 10YR 6/2 light brownish gray, moist, poorly graded fine sand, trace fines
							9.5	**SP**	
	0.0						10		Boring terminated at 10 feet bgs. No odors, staining or groundwater encountered.
							10.5		
							11		
							11.5		
							12		
							12.5		
							13		
							13.5		
							14		
							14.5		
							15		

Boring ID#: DP-3

Sheet: 1 of 1



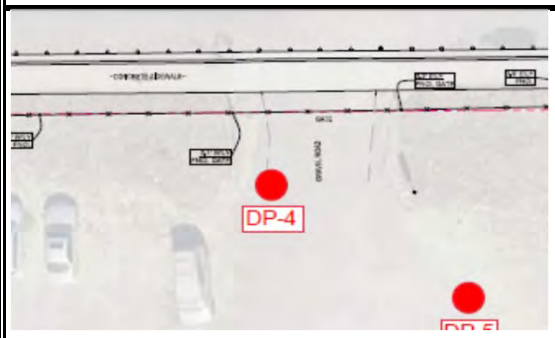
see Figure 2, not to scale

Project: UCSB - KITP	
Concrete Core/Hand Auger Date: N/A	**Time:** N/A
Contractor: N/A	**Core Diameter:** N/A
Boring Completion Date: 03/07/25	**Time:** 1000 - 1030
Rig Type: GeoProbe 7822	**Sampling Method:** continuous core
Contractor: JHA Remediation, LLC	**Borehole Diameter:** 2.25"
Well Construction Completion Date: N/A	**Time:** N/A
Rig Type: N/A	**Construction Detail:** see below
Contractor: N/A	**Borehole Diameter:** N/A
SVE CONSTRUCTION **Casing Diameter:** N/A	**Screen Size/Depth:** N/A
Sand/Depth: N/A **Bent/Depth:** N/A	**Grout/Depth:** N/A
MW CONSTRUCTION **Casing Diameter:** N/A	**Screen Size/Depth:** N/A
Sand/Depth: N/A **Bent/Depth:** N/A	**Grout/Depth:** N/A
Surface Completion: left as previous, no patch	**Logged by:** S. Aichner

Sample Time	PID (ppmV)	Blow Count	Core Interval (feet)	Samples	Backfill Materials	Well Construction	Depth (feet)	USCS	Lithology Description
							0		Surface Conditions: unpaved, compact soil and weeds
1005	0.0	not applicable	continuous core	DP-3-0.5'	non-impacted soil cuttings and hydrated granular bentonite	not applicable	0.5	CL	**CLAY (CL)** 10YR 3/1 very dark gray, slightly moist, medium plasticity, medium stiff clay, trace sand and fines, micaceous
1015	0.0			DP-3-2.5'			2.5		
							4.5		at 4.5 feet bgs **CLAY** grades to stiff and mottles with yellowish brown (10YR 5/6) silty sand
1030	0.0		continuous core	DP-3-5'			5.5	SM	at 5.5 feet bgs **SILTY SAND (SM)** 10YR 5/6 yellowish brown, slightly moist, fine grained sand with silt, trace clay, micaceous
							7.5		at 7.5 feet bgs **SILTY SAND** grades to fine sand with trace silt, no clay
							9		at 9 feet bgs **SAND (SP)** 10YR 6/2 light brownish gray, moist, poorly graded fine sand, trace fines
							9.5	SP	
	0.0						10		Boring terminated at 10 feet bgs. No odors, staining or groundwater encountered.
							15		

Boring ID#: DP-4

Sheet: 1 of 1



see Figure 2, not to scale

Project: UCSB - KITP	
Concrete Core/Hand Auger Date: N/A	**Time:** N/A
Contractor: N/A	**Core Diameter:** N/A
Boring Completion Date: 03/07/25	**Time:** 0900 - 0930
Rig Type: GeoProbe 7822	**Sampling Method:** continuous core
Contractor: JHA Remediation, LLC	**Borehole Diameter:** 2.25"
Well Construction Completion Date: N/A	**Time:** N/A
Rig Type: N/A	**Construction Detail:** see below
Contractor: N/A	**Borehole Diameter:** N/A
SVE CONSTRUCTION **Casing Diameter:** N/A	**Screen Size/Depth:** N/A
Sand/Depth: N/A **Bent/Depth:** N/A	**Grout/Depth:** N/A
MW CONSTRUCTION **Casing Diameter:** N/A	**Screen Size/Depth:** N/A
Sand/Depth: N/A **Bent/Depth:** N/A	**Grout/Depth:** N/A
Surface Completion: left as previous, no patch	**Logged by:** S. Aichner

Sample Time	PID (ppmV)	Blow Count	Core Interval (feet)	Samples	Backfill Materials	Well Construction	Depth (feet)	USCS	Lithology Description
							0		Surface Conditions: unpaved, compact soil and weeds
	0.0	not applicable	continuous core		non-impacted soil cuttings and hydrated granular bentonite	not applicable	0.5		**CLAY (CL)** 10YR 3/1 very dark gray, slightly moist, medium plasticity, medium stiff clay, trace sand and fines, micaceous
							1		
							1.5		
							2		
0910	0.0			DP-4-2.5'			2.5	**CL**	
							3		
							3.5		at 3.5 feet bgs **CLAY** grades to stiff and mottles with yellowish brown (10YR 5/6) silty sand
							4		
							4.5		
0915	0.0			DP-4-5'			5		at 5 feet bgs **SILTY SAND (SM)** 10YR 5/6 yellowish brown, slightly moist, fine grained sand with silt, trace clay, micaceous
							5.5		
							6		
							6.5		
0930				DP-4-7'			7	**SM**	at 7 feet bgs **SILTY SAND** grades to fine sand with trace silt, no clay
							7.5		
							8		
							8.5		
							9		at 9 feet bgs **SAND (SP)** 10YR 6/2 light brownish gray, moist, poorly graded fine sand, trace fines
							9.5	**SP**	
	0.0						10		Boring terminated at 10 feet bgs. No odors, staining or groundwater encountered.
							10.5		
							11		
							11.5		
							12		
							12.5		
							13		
							13.5		
							14		
							14.5		
							15		

Boring ID#: DP-5

Sheet: 1 of 1



see Figure 2, not to scale

Project: UCSB - KITP

Concrete Core/Hand Auger Date: N/A **Time:** N/A

Contractor: N/A **Core Diameter:** N/A

Boring Completion Date: 03/07/25 **Time:** 0750 - 0815

Rig Type: GeoProbe 7822 **Sampling Method:** continuous core

Contractor: JHA Remediation, LLC **Borehole Diameter:** 2.25"

Well Construction Completion Date: N/A **Time:** N/A

Rig Type: N/A **Construction Detail:** see below

Contractor: N/A **Borehole Diameter:** N/A

SVE CONSTRUCTION **Casing Diameter:** N/A **Screen Size/Depth:** N/A

Sand/Depth: N/A **Bent/Depth:** N/A **Grout/Depth:** N/A

MW CONSTRUCTION **Casing Diameter:** N/A **Screen Size/Depth:** N/A

Sand/Depth: N/A **Bent/Depth:** N/A **Grout/Depth:** N/A

Surface Completion: left as previous, no patch **Logged by:** S. Aichner

Sample Time	PID (ppmV)	Blow Count	Core Interval (feet)	Samples	Backfill Materials	Well Construction	Depth (feet)	USCS	Lithology Description
							0		Surface Conditions: unpaved, compact soil and weeds
	0.0	not applicable	continuous core		non-impacted soil cuttings and hydrated granular bentonite	not applicable	0.5	CL	**CLAY (CL)** 10YR 3/1 very dark gray, slightly moist, medium plasticity, medium stiff clay, trace sand and fines, micaceous
							1		
							1.5		
							2		
0800	0.0			DP-5-2.5'			2.5		
							3		
							3.5		
							4		at 4 feet bgs **CLAY** grades to stiff and mottles with yellowish brown (10YR 5/6) silty sand
							4.5		
0805	0.0			DP-5-5'			5		
			continuous core				5.5	SM	at 5.5 feet bgs **SILTY SAND (SM)** 10YR 5/6 yellowish brown, slightly moist, approximately 80% fine grained sand with 20% silt, trace clay, micaceous
							6		
							6.5		
							7		at 7 feet bgs **SILTY SAND** grades to approximately 90% fine sand with 10% silt, no clay
							7.5		
							8		
							8.5		
							9		at 9 feet bgs **SAND (SP)** 10YR 6/2 light brownish gray, moist, poorly graded fine sand, trace fines
							9.5	SP	
0815	0.0			DP-5-10'			10		Boring terminated at 10 feet bgs. No odors, staining or groundwater encountered.
							10.5		
							11		
							11.5		
							12		
							12.5		
							13		
							13.5		
							14		
							14.5		
							15		

JHA ENVIRONMENTAL

Boring ID#: DP-6

Sheet: 1 of 1



see Figure 2, not to scale

Project: UCSB - KITP

Concrete Core/Hand Auger Date: N/A **Time:** N/A

Contractor: N/A **Core Diameter:** N/A

Boring Completion Date: 03/07/25 **Time:** 1350 - 1415

Rig Type: GeoProbe 7822 **Sampling Method:** continuous core

Contractor: JHA Remediation, LLC **Borehole Diameter:** 2.25"

Well Construction Completion Date: N/A **Time:** N/A

Rig Type: N/A **Construction Detail:** see below

Contractor: N/A **Borehole Diameter:** N/A

SVE CONSTRUCTION **Casing Diameter:** N/A **Screen Size/Depth:** N/A

Sand/Depth: N/A **Bent/Depth:** N/A **Grout/Depth:** N/A

MW CONSTRUCTION **Casing Diameter:** N/A **Screen Size/Depth:** N/A

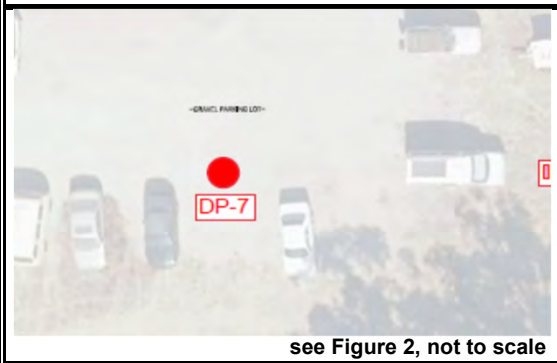
Sand/Depth: N/A **Bent/Depth:** N/A **Grout/Depth:** N/A

Surface Completion: left as previous, no patch **Logged by:** S. Aichner

Sample Time	PID (ppmV)	Blow Count	Core Interval (feet)	Samples	Backfill Materials	Well Construction	Depth (feet)	USCS	Lithology Description
							0		Surface Conditions: unpaved, compact soil and weeds
	0.0	not applicable	continuous core		non-impacted soil cuttings and hydrated granular bentonite	not applicable	0.5	CL	**CLAY (CL)** 10YR 3/1 very dark gray, slightly moist, medium plasticity, medium stiff clay, trace sand and fines, micaceous
1355	0.0			DP-6-2.5'			2.5		
							3		
							3.5		
							4		at 4 feet bgs **CLAY** grades to stiff and mottles with yellowish brown (10YR 5/6) silty sand
							4.5		
1400	0.0			DP-6-5'			5		
							5.5		
							6		at 6 feet bgs **SILTY SAND (SM)** 10YR 5/6 yellowish brown, slightly moist, fine grained sand with silt, trace clay, micaceous
			continuous core				6.5	SM	
1410				DP-6-7'			7		at 7 feet bgs **SILTY SAND** grades to fine sand with trace silt, no clay
							7.5		
							8		
							8.5		
							9		
							9.5		at 9.5 feet bgs **SAND (SP)** 10YR 6/2 light brownish gray, moist, poorly graded fine sand, trace fines
	0.0						10	SP	Boring terminated at 10 feet bgs. No odors, staining or groundwater encountered.
							10.5		
							11		
							11.5		
							12		
							12.5		
							13		
							13.5		
							14		
							14.5		
							15		

Boring ID#: DP-7

Sheet: 1 of 1



see Figure 2, not to scale

Project: UCSB - KITP

Concrete Core/Hand Auger Date: N/A **Time:** N/A

Contractor: N/A **Core Diameter:** N/A

Boring Completion Date: 03/07/25 **Time:** 1315 - 1345

Rig Type: GeoProbe 7822 **Sampling Method:** continuous core

Contractor: JHA Remediation, LLC **Borehole Diameter:** 2.25"

Well Construction Completion Date: N/A **Time:** N/A

Rig Type: N/A **Construction Detail:** see below

Contractor: N/A **Borehole Diameter:** N/A

SVE CONSTRUCTION **Casing Diameter:** N/A **Screen Size/Depth:** N/A

Sand/Depth: N/A **Bent/Depth:** N/A **Grout/Depth:** N/A

MW CONSTRUCTION **Casing Diameter:** N/A **Screen Size/Depth:** N/A

Sand/Depth: N/A **Bent/Depth:** N/A **Grout/Depth:** N/A

Surface Completion: left as previous, no patch **Logged by:** S. Aichner

Sample Time	PID (ppmV)	Blow Count	Core Interval (feet)	Samples	Backfill Materials	Well Construction	Depth (feet)	USCS	Lithology Description
							0		Surface Conditions: unpaved, compact soil and weeds
1320	0.0	not applicable	continuous core	DP-7-0.5'	non-impacted soil cuttings and hydrated granular bentonite	not applicable	0.5	CL	**CLAY (CL)** 10YR 3/1 very dark gray, slightly moist, medium plasticity, medium stiff clay, trace sand and fines, micaceous
1325	0.0			DP-7-2.5'			2.5		
							4		at 4 feet bgs **CLAY** grades to stiff and mottles with yellowish brown (10YR 5/6) silty sand
1335	0.0		continuous core	DP-7-5'			5	SM	at 5 feet bgs **SILTY SAND (SM)** 10YR 5/6 yellowish brown, slightly moist, fine grained sand with silt, trace clay, micaceous
							6.5		at 6.5 feet bgs **SILTY SAND** grades to fine sand with trace silt, no clay
							9	SP	at 9 feet bgs **SAND (SP)** 10YR 6/2 light brownish gray, moist, poorly graded fine sand, trace fines
	0.0						9.5		Refusal at 9.5 feet bgs. No odors, staining or groundwater encountered.
							10		
							10.5		
							11		
							11.5		
							12		
							12.5		
							13		
							13.5		
							14		
							14.5		
							15		

Boring ID#: DP-8

Sheet: 1 of 1



see Figure 2, not to scale

Project: UCSB - KITP

Concrete Core/Hand Auger Date: N/A **Time:** N/A

Contractor: N/A **Core Diameter:** N/A

Boring Completion Date: 03/07/25 **Time:** 1245 - 1315

Rig Type: GeoProbe 7822 **Sampling Method:** continuous core

Contractor: JHA Remediation, LLC **Borehole Diameter:** 2.25"

Well Construction Completion Date: N/A **Time:** N/A

Rig Type: N/A **Construction Detail:** see below

Contractor: N/A **Borehole Diameter:** N/A

SVE CONSTRUCTION **Casing Diameter:** N/A **Screen Size/Depth:** N/A

Sand/Depth: N/A **Bent/Depth:** N/A **Grout/Depth:** N/A

MW CONSTRUCTION **Casing Diameter:** N/A **Screen Size/Depth:** N/A

Sand/Depth: N/A **Bent/Depth:** N/A **Grout/Depth:** N/A

Surface Completion: left as previous, no patch **Logged by:** S. Aichner

Sample Time	PID (ppmV)	Blow Count	Core Interval (feet)	Samples	Backfill Materials	Well Construction	Depth (feet)	USCS	Lithology Description
							0		Surface Conditions: unpaved, compact soil and weeds
1250	0.0	not applicable	continuous core	DP-8-0.5'	non-impacted soil cuttings and hydrated granular bentonite	not applicable	0.5	CL	**CLAY (CL)** 10YR 3/1 very dark gray, slightly moist, medium plasticity, medium stiff clay, trace sand and fines, micaceous
	0.0						2.5		
1300	0.0		continuous core	DP-8-5'			4.5		at 4.5 feet bgs **CLAY** grades to stiff and mottles with yellowish brown (10YR 5/6) silty sand
							5.5	SM	at 5.5 feet bgs **SILTY SAND (SM)** 10YR 5/6 yellowish brown, slightly moist, fine grained sand with silt, trace clay, micaceous
							7		at 7 feet bgs **SILTY SAND** grades to fine sand with silt, no clay
							8.5	SP	at 8.5 feet bgs **SAND (SP)** 10YR 6/2 light brownish gray, moist, poorly graded fine sand, trace fines
1310	0.0			DP-8-10'			10		Boring terminated at 10 feet bgs. No odors, staining or groundwater encountered.
							15		

JHA ENVIRONMENTAL

Boring ID#: DP-9

Sheet: 1 of 1



see Figure 2, not to scale

Project: UCSB - KITP

Concrete Core/Hand Auger Date: N/A **Time:** N/A

Contractor: N/A **Core Diameter:** N/A

Boring Completion Date: 03/07/25 **Time:** 1215 - 1245

Rig Type: GeoProbe 7822 **Sampling Method:** continuous core

Contractor: JHA Remediation, LLC **Borehole Diameter:** 2.25"

Well Construction Completion Date: N/A **Time:** N/A

Rig Type: N/A **Construction Detail:** see below

Contractor: N/A **Borehole Diameter:** N/A

SVE CONSTRUCTION **Casing Diameter:** N/A **Screen Size/Depth:** N/A

Sand/Depth: N/A **Bent/Depth:** N/A **Grout/Depth:** N/A

MW CONSTRUCTION **Casing Diameter:** N/A **Screen Size/Depth:** N/A

Sand/Depth: N/A **Bent/Depth:** N/A **Grout/Depth:** N/A

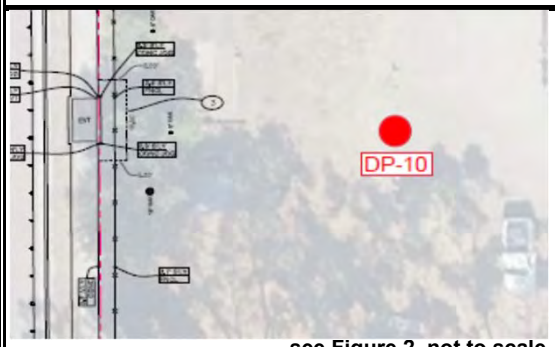
Surface Completion: left as previous, no patch **Logged by:** S. Aichner

Sample Time	PID (ppmV)	Blow Count	Core Interval (feet)	Samples	Backfill Materials	Well Construction	Depth (feet)	USCS	Lithology Description
							0		Surface Conditions: unpaved, compact soil and weeds
	0.0	not applicable	continuous core		non-impacted soil cuttings and hydrated granular bentonite	not applicable	0.5	CL	**CLAY (CL)** 10YR 3/1 very dark gray, slightly moist, medium plasticity, medium stiff clay, trace sand and fines, micaceous
1220	0.0			DP-9-2.5'			2.5		
							4		at 4 feet bgs **CLAY** grades to stiff and mottles with yellowish brown (10YR 5/6) silty sand
1225	0.0			DP-9-5'			5		
							5.5	SM	at 5.5 feet bgs **SILTY SAND (SM)** 10YR 5/6 yellowish brown, slightly moist, fine grained sand with trace silt, trace clay, micaceous
1235			continuous core	DP-9-7'			7		at 7 feet bgs **SILTY SAND** grades to approximately 90% fine sand with 10% silt, no clay
							9		at 9 feet bgs **SAND (SP)** 10YR 6/2 light brownish gray, moist, poorly graded fine sand, trace fines
							9.5	SP	
	0.0						10		Boring terminated at 10 feet bgs. No odors, staining or groundwater encountered.
							15		

Boring ID#: DP-10

Sheet: 1 of 1

JHA ENVIRONMENTAL



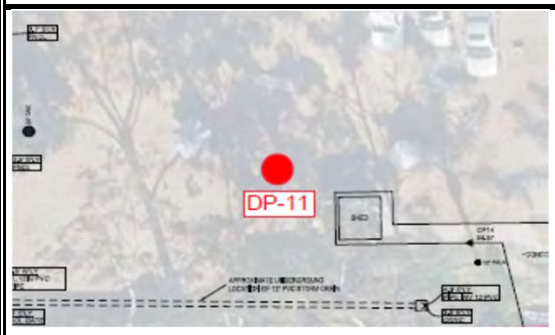
see Figure 2, not to scale

Project: UCSB - KITP	
Concrete Core/Hand Auger Date: N/A	**Time:** N/A
Contractor: N/A	**Core Diameter:** N/A
Boring Completion Date: 03/07/25	**Time:** 1150 - 1205
Rig Type: GeoProbe 7822	**Sampling Method:** continuous core
Contractor: JHA Remediation, LLC	**Borehole Diameter:** 2.25"
Well Construction Completion Date: N/A	**Time:** N/A
Rig Type: N/A	**Construction Detail:** see below
Contractor: N/A	**Borehole Diameter:** N/A
SVE CONSTRUCTION **Casing Diameter:** N/A	**Screen Size/Depth:** N/A
Sand/Depth: N/A **Bent/Depth:** N/A	**Grout/Depth:** N/A
MW CONSTRUCTION **Casing Diameter:** N/A	**Screen Size/Depth:** N/A
Sand/Depth: N/A **Bent/Depth:** N/A	**Grout/Depth:** N/A
Surface Completion: left as previous, no patch	**Logged by:** S. Aichner

Sample Time	PID (ppmV)	Blow Count	Core Interval (feet)	Samples	Backfill Materials	Well Construction	Depth (feet)	USCS	Lithology Description
							0		Surface Conditions: unpaved, compact soil and weeds
1150	0.0	not applicable	continuous core	DP-10-0.5'	non-impacted soil cuttings and hydrated granular bentonite	not applicable	0.5	CL	**CLAY (CL)** 10YR 3/1 very dark gray, slightly moist, medium plasticity, medium stiff clay, trace sand and fines, micaceous
1155	0.0			DP-10-2.5'			2.5		
							3.5		at 3.5 feet bgs **CLAY** grades to stiff and mottles with yellowish brown (10YR 5/6) silty sand
1200	0.0			DP-10-5'			5		at 5 feet bgs **SILTY SAND (SM)** 10YR 5/6 yellowish brown, slightly moist, fine grained sand with silt, trace clay, micaceous
			continuous core				7	SM	
							7.5		at 7.5 feet bgs **SILTY SAND** grades to fine sand with silt, no clay
							9		at 9 feet bgs **SAND (SP)** 10YR 6/2 light brownish gray, moist, poorly graded fine sand, trace fines
							9.5	SP	
	0.0						10		Boring terminated at 10 feet bgs. No odors, staining or groundwater encountered.
							15		

Boring ID#: DP-11

Sheet: 1 of 1



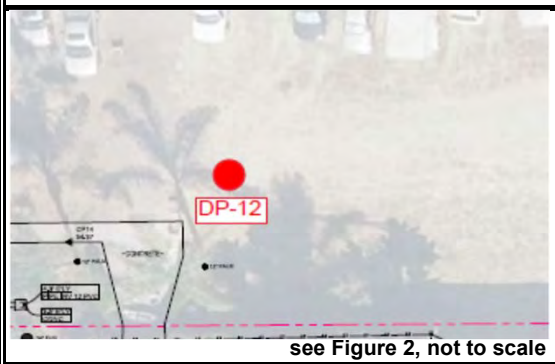
see Figure 2, not to scale

Project: UCSB - KITP	
Concrete Core/Hand Auger Date: N/A	**Time:** N/A
Contractor: N/A	**Core Diameter:** N/A
Boring Completion Date: 03/07/25	**Time:** 1630 - 1700
Rig Type: GeoProbe 7822	**Sampling Method:** continuous core
Contractor: JHA Remediation, LLC	**Borehole Diameter:** 2.25"
Well Construction Completion Date: N/A	**Time:** N/A
Rig Type: N/A	**Construction Detail:** see below
Contractor: N/A	**Borehole Diameter:** N/A
SVE CONSTRUCTION **Casing Diameter:** N/A	**Screen Size/Depth:** N/A
Sand/Depth: N/A **Bent/Depth:** N/A	**Grout/Depth:** N/A
MW CONSTRUCTION **Casing Diameter:** N/A	**Screen Size/Depth:** N/A
Sand/Depth: N/A **Bent/Depth:** N/A	**Grout/Depth:** N/A
Surface Completion: left as previous, no patch	**Logged by:** S. Aichner

Sample Time	PID (ppmV)	Blow Count	Core Interval (feet)	Samples	Backfill Materials	Well Construction	Depth (feet)	USCS	Lithology Description
							0		Surface Conditions: unpaved, compact soil and weeds
	0.0	not applicable	continuous core		non-impacted soil cuttings and hydrated granular bentonite	not applicable	0.5	CL	**CLAY (CL)** 10YR 3/1 very dark gray, slightly moist, medium plasticity, medium stiff clay, trace sand and fines, micaceous
1635	0.0			DP-11-2.5'			2.5		
							3.5		at 3.5 feet bgs **CLAY** grades to stiff and mottles with yellowish brown (10YR 5/6) silty sand
							4.5		at 4.5 feet bgs **SILTY SAND (SM)** 10YR 5/6 yellowish brown, slightly moist, fine grained sand with silt, trace clay, micaceous
1640	0.0		continuous core	DP-11-5'			5	SM	
							7		at 7 feet bgs **SILTY SAND** grades to fine sand with trace silt, no clay
							9		at 9 feet bgs **SAND (SP)** 10YR 6/2 light brownish gray, moist, poorly graded fine sand, trace fines
							9.5	SP	
1650	0.0			DP-11-10'			10		Boring terminated at 10 feet bgs. No odors, staining or groundwater encountered.
							15		

Boring ID#: DP-12

Sheet: 1 of 1



see Figure 2, not to scale

Project: UCSB - KITP

Concrete Core/Hand Auger Date: N/A **Time:** N/A

Contractor: N/A **Core Diameter:** N/A

Boring Completion Date: 03/07/25 **Time:** 1600 - 1630

Rig Type: GeoProbe 7822 **Sampling Method:** continuous core

Contractor: JHA Remediation, LLC **Borehole Diameter:** 2.25"

Well Construction Completion Date: N/A **Time:** N/A

Rig Type: N/A **Construction Detail:** see below

Contractor: N/A **Borehole Diameter:** N/A

SVE CONSTRUCTION **Casing Diameter:** N/A **Screen Size/Depth:** N/A

Sand/Depth: N/A **Bent/Depth:** N/A **Grout/Depth:** N/A

MW CONSTRUCTION **Casing Diameter:** N/A **Screen Size/Depth:** N/A

Sand/Depth: N/A **Bent/Depth:** N/A **Grout/Depth:** N/A

Surface Completion: left as previous, no patch **Logged by:** S. Aichner

Sample Time	PID (ppmV)	Blow Count	Core Interval (feet)	Samples	Backfill Materials	Well Construction	Depth (feet)	USCS	Lithology Description
							0		Surface Conditions: unpaved, compact soil and weeds
1605	0.0	not applicable	continuous core	DP-12-0.5'	non-impacted soil cuttings and hydrated granular bentonite	not applicable	0.5	CL	**CLAY (CL)** 10YR 3/1 very dark gray, slightly moist, medium plasticity, medium stiff clay, trace sand and fines, micaceous
1610	0.0			DP-12-2.5'			2.5		at 3 feet bgs **CLAY** grades to stiff and mottles with yellowish brown (10YR 5/6) silty sand
1620	0.0		continuous core	DP-12-5'			5	SM	at 5 feet bgs **SILTY SAND (SM)** 10YR 5/6 yellowish brown, slightly moist, fine grained sand with silt, trace clay, micaceous
							7		at 7 feet bgs **SILTY SAND** grades to fine sand with trace silt, no clay
							9.5	SP	at 9.5 feet bgs **SAND (SP)** 10YR 6/2 light brownish gray, moist, poorly graded fine sand, trace fines
	0.0						10		Boring terminated at 10 feet bgs. No odors, staining or groundwater encountered.
							15		

Boring ID#: DP-13

Sheet: 1 of 1

JHA ENVIRONMENTAL



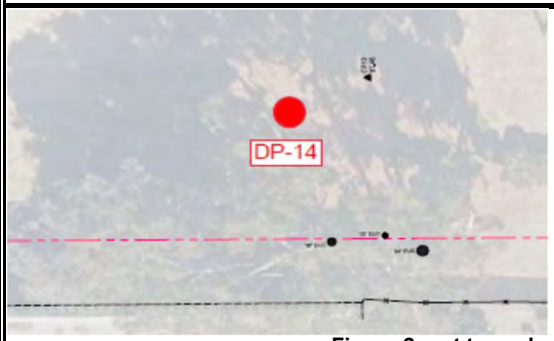
see Figure 2, not to scale

Project: UCSB - KITP	
Concrete Core/Hand Auger Date: N/A	**Time:** N/A
Contractor: N/A	**Core Diameter:** N/A
Boring Completion Date: 03/07/25	**Time:** 1530 - 1600
Rig Type: GeoProbe 7822	**Sampling Method:** continuous core
Contractor: JHA Remediation, LLC	**Borehole Diameter:** 2.25"
Well Construction Completion Date: N/A	**Time:** N/A
Rig Type: N/A	**Construction Detail:** see below
Contractor: N/A	**Borehole Diameter:** N/A
SVE CONSTRUCTION **Casing Diameter:** N/A	**Screen Size/Depth:** N/A
Sand/Depth: N/A **Bent/Depth:** N/A	**Grout/Depth:** N/A
MW CONSTRUCTION **Casing Diameter:** N/A	**Screen Size/Depth:** N/A
Sand/Depth: N/A **Bent/Depth:** N/A	**Grout/Depth:** N/A
Surface Completion: left as previous, no patch	**Logged by:** S. Aichner

Sample Time	PID (ppmV)	Blow Count	Core Interval (feet)	Samples	Backfill Materials	Well Construction	Depth (feet)	USCS	Lithology Description
							0		Surface Conditions: unpaved, compact soil and weeds
	0.0	not applicable	continuous core		non-impacted soil cuttings and hydrated granular bentonite	not applicable	0.5	CL	**CLAY (CL)** 10YR 3/1 very dark gray, slightly moist, medium plasticity, medium stiff clay, trace sand and fines, micaceous
1535	0.0			DP-13-2.5'			2.5		
							3.5		at 3.5 feet bgs **CLAY** grades to stiff and mottles with yellowish brown (10YR 5/6) silty sand
1540	0.0			DP-13-5'			5		
							5.5		at 5.5 feet bgs **SILTY SAND (SM)** 10YR 5/6 yellowish brown, slightly moist, fine grained sand with silt, trace clay, micaceous
							6.5		at 6.5 feet bgs **SILTY SAND** grades to fine sand with trace silt, no clay
1550			continuous core	DP-13-7'			7	SM	
							9		at 9 feet bgs **SAND (SP)** 10YR 6/2 light brownish gray, moist, poorly graded fine sand, trace fines
							9.5	SP	
	0.0						10		Boring terminated at 10 feet bgs. No odors, staining or groundwater encountered.
							15		

Boring ID#: DP-14

Sheet: 1 of 1



see Figure 2, not to scale

Project: UCSB - KITP

Concrete Core/Hand Auger Date: N/A **Time:** N/A

Contractor: N/A **Core Diameter:** N/A

Boring Completion Date: 03/07/25 **Time:** 1500 - 1530

Rig Type: GeoProbe 7822 **Sampling Method:** continuous core

Contractor: JHA Remediation, LLC **Borehole Diameter:** 2.25"

Well Construction Completion Date: N/A **Time:** N/A

Rig Type: N/A **Construction Detail:** see below

Contractor: N/A **Borehole Diameter:** N/A

SVE CONSTRUCTION **Casing Diameter:** N/A **Screen Size/Depth:** N/A

Sand/Depth: N/A **Bent/Depth:** N/A **Grout/Depth:** N/A

MW CONSTRUCTION **Casing Diameter:** N/A **Screen Size/Depth:** N/A

Sand/Depth: N/A **Bent/Depth:** N/A **Grout/Depth:** N/A

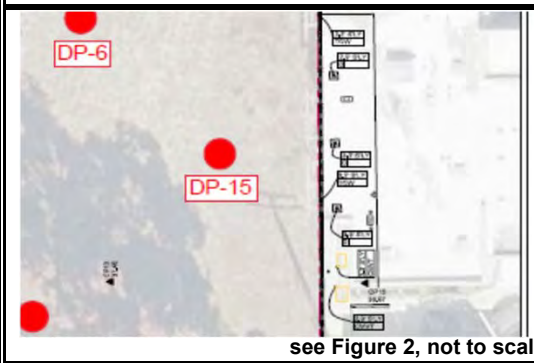
Surface Completion: left as previous, no patch **Logged by:** S. Aichner

Sample Time	PID (ppmV)	Blow Count	Core Interval (feet)	Samples	Backfill Materials	Well Construction	Depth (feet)	USCS	Lithology Description
							0		Surface Conditions: unpaved, compact soil and weeds
1505	0.0	not applicable	continuous core	DP-14-0.5'	non-impacted soil cuttings and hydrated granular bentonite	not applicable	0.5	CL	**CLAY (CL)** 10YR 3/1 very dark gray, slightly moist, medium plasticity, medium stiff clay, trace sand and fines, micaceous
	0.0						2.5		
1510	0.0		continuous core	DP-14-5'			4.5		at 4.5 feet bgs **CLAY** grades to stiff and mottles with yellowish brown (10YR 5/6) silty sand
							5.5	SM	at 5.5 feet bgs **SILTY SAND (SM)** 10YR 5/6 yellowish brown, slightly moist, fine grained sand with silt, trace clay, micaceous
							7		at 7 feet bgs **SILTY SAND** grades to fine sand with trace silt, no clay
							9		at 9 feet bgs **SAND (SP)** 10YR 6/2 light brownish gray, moist, poorly graded fine sand, trace fines
							9.5	SP	
1520	0.0			DP-14-10'			10		Boring terminated at 10 feet bgs. No odors, staining or groundwater encountered.
							15		

JHA ENVIRONMENTAL

Boring ID#: DP-15

Sheet: 1 of 1



see Figure 2, not to scale

Project: UCSB - KITP

Concrete Core/Hand Auger Date: N/A **Time:** N/A

Contractor: N/A **Core Diameter:** N/A

Boring Completion Date: 03/07/25 **Time:** 1420 - 1450

Rig Type: GeoProbe 7822 **Sampling Method:** continuous core

Contractor: JHA Remediation, LLC **Borehole Diameter:** 2.25"

Well Construction Completion Date: N/A **Time:** N/A

Rig Type: N/A **Construction Detail:** see below

Contractor: N/A **Borehole Diameter:** N/A

SVE CONSTRUCTION **Casing Diameter:** N/A **Screen Size/Depth:** N/A

Sand/Depth: N/A **Bent/Depth:** N/A **Grout/Depth:** N/A

MW CONSTRUCTION **Casing Diameter:** N/A **Screen Size/Depth:** N/A

Sand/Depth: N/A **Bent/Depth:** N/A **Grout/Depth:** N/A

Surface Completion: left as previous, no patch **Logged by:** S. Aichner

Sample Time	PID (ppmV)	Blow Count	Core Interval (feet)	Samples	Backfill Materials	Well Construction	Depth (feet)	USCS	Lithology Description
							0		Surface Conditions: unpaved, compact soil and weeds
1425	0.0	not applicable	continuous core	DP-15-0.5'	non-impacted soil cuttings and hydrated granular bentonite	not applicable	0.5	CL	**CLAY (CL)** 10YR 3/1 very dark gray, slightly moist, medium plasticity, medium stiff clay, trace fines, micaceous
1430	0.0			DP-15-2.5'			2.5		at 4 feet bgs **CLAY** grades to stiff and mottles with yellowish brown (10YR 5/6) silty sand
1440	0.0		continuous core	DP-14-5'			5		
							5.5	SM	at 5.5 feet bgs **SILTY SAND (SM)** 10YR 5/6 yellowish brown, slightly moist, approximately 80% fine grained sand with 20% silts, trace clay, micaceous
							7		at 7 feet bgs **SILTY SAND** grades to approximately 90% fine sand with 10% silt, no clay
							9	SP	at 9 feet bgs **SAND (SP)** 10YR 6/2 light brownish gray, moist, poorly graded fine sand, trace fines
	0.0						10		Boring terminated at 10 feet bgs. No odors, staining or groundwater encountered.
							15		

APPENDIX C

Laboratory Analytical Report

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Chad Jenkins
Jacob & Hefner Associates P.C.
15375 Barranca Parkway, J-101
Irvine, California 92618

Generated 3/21/2025 12:00:00 PM

JOB DESCRIPTION

UCSB - KITP

JOB NUMBER

570-221498-1

Eurofins Calscience
2841 Dow Avenue, Suite 100
Tustin CA 92780

See page two for job notes and contact information.

Job Notes

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

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

Authorization



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3/21/2025 12:00:00 PM

Authorized for release by
Terri Chang, Project Manager I
Terri.Chang@et.eurofinsus.com
(657)210-6295

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Definitions/Glossary

Client: Jacob & Hefner Associates P.C.
Project/Site: UCSB - KITP

Job ID: 570-221498-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Job ID: 570-221498-1 Eurofins Calscience

Job Narrative
570-221498-1

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

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

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

Receipt
The samples were received on 3/8/2025 10:44 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 2.2°C, 2.3°C and 3.0°C.

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

Detection Summary

Client: Jacob & Hefner Associates P.C.
Project/Site: UCSB - KITP

Job ID: 570-221498-1

Client Sample ID: DP-1-5' — Lab Sample ID: 570-221498-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C6-C44	4.5	J	5.0	4.5	mg/Kg	1		8015B	Total/NA

Client Sample ID: DP-2-7' — Lab Sample ID: 570-221498-6

No Detections.

Client Sample ID: DP-3-2.5' — Lab Sample ID: 570-221498-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C6-C44	5.2		5.0	4.6	mg/Kg	1		8015B	Total/NA

Client Sample ID: DP-4-5' — Lab Sample ID: 570-221498-11

No Detections.

Client Sample ID: DP-5-10' — Lab Sample ID: 570-221498-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C6-C44	5.8		5.0	4.5	mg/Kg	1		8015B	Total/NA

Client Sample ID: DP-6-2.5' — Lab Sample ID: 570-221498-16

No Detections.

Client Sample ID: DP-7-0.5' — Lab Sample ID: 570-221498-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C6-C44	13		5.0	4.5	mg/Kg	1		8015B	Total/NA
Diesel Range Organics [C10-C28]	7.6		5.0	4.5	mg/Kg	1		8015B	Total/NA

Client Sample ID: DP-8-5' — Lab Sample ID: 570-221498-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C6-C44	10		5.0	4.6	mg/Kg	1		8015B	Total/NA

Client Sample ID: DP-9-7' — Lab Sample ID: 570-221498-27

No Detections.

Client Sample ID: DP-10-2.5' — Lab Sample ID: 570-221498-29

No Detections.

Client Sample ID: DP-11-2.5' — Lab Sample ID: 570-221498-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C6-C44	5.0		4.9	4.5	mg/Kg	1		8015B	Total/NA
Diesel Range Organics [C10-C28]	4.6	J	4.9	4.5	mg/Kg	1		8015B	Total/NA

Client Sample ID: DP-12-5' — Lab Sample ID: 570-221498-36

No Detections.

Client Sample ID: DP-13-5' — Lab Sample ID: 570-221498-38

No Detections.

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Jacob & Hefner Associates P.C.
Project/Site: UCSB - KITP

Job ID: 570-221498-1

Client Sample ID: DP-14-0.5'

Lab Sample ID: 570-221498-40

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C6-C44	8.0		5.0	4.5	mg/Kg	1		8015B	Total/NA
Diesel Range Organics [C10-C28]	5.2		5.0	4.5	mg/Kg	1		8015B	Total/NA

Client Sample ID: DP-15-5'

Lab Sample ID: 570-221498-45

No Detections.

This Detection Summary does not include radiochemical test results.

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

Client Sample ID: DP-1-5'
Date Collected: 03/07/25 11:40
Date Received: 03/08/25 10:44

Lab Sample ID: 570-221498-2
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6 as C6	ND		5.0	4.5	mg/Kg		03/17/25 09:58	03/19/25 16:26	1
C7 as C7	ND		5.0	4.5	mg/Kg		03/17/25 09:58	03/19/25 16:26	1
C8 as C8	ND		5.0	4.5	mg/Kg		03/17/25 09:58	03/19/25 16:26	1
C9-C10	ND		5.0	4.5	mg/Kg		03/17/25 09:58	03/19/25 16:26	1
C11-C12	ND		5.0	4.5	mg/Kg		03/17/25 09:58	03/19/25 16:26	1
C13-C14	ND		5.0	4.5	mg/Kg		03/17/25 09:58	03/19/25 16:26	1
C15-C16	ND		5.0	4.5	mg/Kg		03/17/25 09:58	03/19/25 16:26	1
C17-C18	ND		5.0	4.5	mg/Kg		03/17/25 09:58	03/19/25 16:26	1
C19-C20	ND		5.0	4.5	mg/Kg		03/17/25 09:58	03/19/25 16:26	1
C21-C22	ND		5.0	4.5	mg/Kg		03/17/25 09:58	03/19/25 16:26	1
C23-C24	ND		5.0	4.5	mg/Kg		03/17/25 09:58	03/19/25 16:26	1
C25-C28	ND		5.0	4.5	mg/Kg		03/17/25 09:58	03/19/25 16:26	1
C29-C32	ND		5.0	4.5	mg/Kg		03/17/25 09:58	03/19/25 16:26	1
C33-C36	ND		5.0	4.5	mg/Kg		03/17/25 09:58	03/19/25 16:26	1
C37-C40	ND		5.0	4.5	mg/Kg		03/17/25 09:58	03/19/25 16:26	1
C41-C44	ND		5.0	4.5	mg/Kg		03/17/25 09:58	03/19/25 16:26	1
C6-C44	**4.5**	**J**	5.0	4.5	mg/Kg		03/17/25 09:58	03/19/25 16:26	1
Diesel Range Organics [C10-C28]	ND		5.0	4.5	mg/Kg		03/17/25 09:58	03/19/25 16:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*105*		*29 - 160*	*03/17/25 09:58*	*03/19/25 16:26*	*1*

Client Sample ID: DP-2-7'
Date Collected: 03/07/25 11:30
Date Received: 03/08/25 10:44

Lab Sample ID: 570-221498-6
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6 as C6	ND		5.0	4.6	mg/Kg		03/17/25 09:58	03/19/25 16:53	1
C7 as C7	ND		5.0	4.6	mg/Kg		03/17/25 09:58	03/19/25 16:53	1
C8 as C8	ND		5.0	4.6	mg/Kg		03/17/25 09:58	03/19/25 16:53	1
C9-C10	ND		5.0	4.6	mg/Kg		03/17/25 09:58	03/19/25 16:53	1
C11-C12	ND		5.0	4.6	mg/Kg		03/17/25 09:58	03/19/25 16:53	1
C13-C14	ND		5.0	4.6	mg/Kg		03/17/25 09:58	03/19/25 16:53	1
C15-C16	ND		5.0	4.6	mg/Kg		03/17/25 09:58	03/19/25 16:53	1
C17-C18	ND		5.0	4.6	mg/Kg		03/17/25 09:58	03/19/25 16:53	1
C19-C20	ND		5.0	4.6	mg/Kg		03/17/25 09:58	03/19/25 16:53	1
C21-C22	ND		5.0	4.6	mg/Kg		03/17/25 09:58	03/19/25 16:53	1
C23-C24	ND		5.0	4.6	mg/Kg		03/17/25 09:58	03/19/25 16:53	1
C25-C28	ND		5.0	4.6	mg/Kg		03/17/25 09:58	03/19/25 16:53	1
C29-C32	ND		5.0	4.6	mg/Kg		03/17/25 09:58	03/19/25 16:53	1
C33-C36	ND		5.0	4.6	mg/Kg		03/17/25 09:58	03/19/25 16:53	1
C37-C40	ND		5.0	4.6	mg/Kg		03/17/25 09:58	03/19/25 16:53	1
C41-C44	ND		5.0	4.6	mg/Kg		03/17/25 09:58	03/19/25 16:53	1
C6-C44	ND		5.0	4.6	mg/Kg		03/17/25 09:58	03/19/25 16:53	1
Diesel Range Organics [C10-C28]	ND		5.0	4.6	mg/Kg		03/17/25 09:58	03/19/25 16:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*100*		*29 - 160*	*03/17/25 09:58*	*03/19/25 16:53*	*1*

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

Client Sample ID: DP-3-2.5'
Date Collected: 03/07/25 10:15
Date Received: 03/08/25 10:44

Lab Sample ID: 570-221498-8
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6 as C6	ND		5.0	4.6	mg/Kg		03/17/25 09:58	03/19/25 17:19	1
C7 as C7	ND		5.0	4.6	mg/Kg		03/17/25 09:58	03/19/25 17:19	1
C8 as C8	ND		5.0	4.6	mg/Kg		03/17/25 09:58	03/19/25 17:19	1
C9-C10	ND		5.0	4.6	mg/Kg		03/17/25 09:58	03/19/25 17:19	1
C11-C12	ND		5.0	4.6	mg/Kg		03/17/25 09:58	03/19/25 17:19	1
C13-C14	ND		5.0	4.6	mg/Kg		03/17/25 09:58	03/19/25 17:19	1
C15-C16	ND		5.0	4.6	mg/Kg		03/17/25 09:58	03/19/25 17:19	1
C17-C18	ND		5.0	4.6	mg/Kg		03/17/25 09:58	03/19/25 17:19	1
C19-C20	ND		5.0	4.6	mg/Kg		03/17/25 09:58	03/19/25 17:19	1
C21-C22	ND		5.0	4.6	mg/Kg		03/17/25 09:58	03/19/25 17:19	1
C23-C24	ND		5.0	4.6	mg/Kg		03/17/25 09:58	03/19/25 17:19	1
C25-C28	ND		5.0	4.6	mg/Kg		03/17/25 09:58	03/19/25 17:19	1
C29-C32	ND		5.0	4.6	mg/Kg		03/17/25 09:58	03/19/25 17:19	1
C33-C36	ND		5.0	4.6	mg/Kg		03/17/25 09:58	03/19/25 17:19	1
C37-C40	ND		5.0	4.6	mg/Kg		03/17/25 09:58	03/19/25 17:19	1
C41-C44	ND		5.0	4.6	mg/Kg		03/17/25 09:58	03/19/25 17:19	1
C6-C44	**5.2**		5.0	4.6	mg/Kg		03/17/25 09:58	03/19/25 17:19	1
Diesel Range Organics [C10-C28]	ND		5.0	4.6	mg/Kg		03/17/25 09:58	03/19/25 17:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*110*		*29 - 160*	*03/17/25 09:58*	*03/19/25 17:19*	*1*

Client Sample ID: DP-4-5'
Date Collected: 03/07/25 09:15
Date Received: 03/08/25 10:44

Lab Sample ID: 570-221498-11
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6 as C6	ND		5.0	4.5	mg/Kg		03/17/25 09:58	03/19/25 17:45	1
C7 as C7	ND		5.0	4.5	mg/Kg		03/17/25 09:58	03/19/25 17:45	1
C8 as C8	ND		5.0	4.5	mg/Kg		03/17/25 09:58	03/19/25 17:45	1
C9-C10	ND		5.0	4.5	mg/Kg		03/17/25 09:58	03/19/25 17:45	1
C11-C12	ND		5.0	4.5	mg/Kg		03/17/25 09:58	03/19/25 17:45	1
C13-C14	ND		5.0	4.5	mg/Kg		03/17/25 09:58	03/19/25 17:45	1
C15-C16	ND		5.0	4.5	mg/Kg		03/17/25 09:58	03/19/25 17:45	1
C17-C18	ND		5.0	4.5	mg/Kg		03/17/25 09:58	03/19/25 17:45	1
C19-C20	ND		5.0	4.5	mg/Kg		03/17/25 09:58	03/19/25 17:45	1
C21-C22	ND		5.0	4.5	mg/Kg		03/17/25 09:58	03/19/25 17:45	1
C23-C24	ND		5.0	4.5	mg/Kg		03/17/25 09:58	03/19/25 17:45	1
C25-C28	ND		5.0	4.5	mg/Kg		03/17/25 09:58	03/19/25 17:45	1
C29-C32	ND		5.0	4.5	mg/Kg		03/17/25 09:58	03/19/25 17:45	1
C33-C36	ND		5.0	4.5	mg/Kg		03/17/25 09:58	03/19/25 17:45	1
C37-C40	ND		5.0	4.5	mg/Kg		03/17/25 09:58	03/19/25 17:45	1
C41-C44	ND		5.0	4.5	mg/Kg		03/17/25 09:58	03/19/25 17:45	1
C6-C44	ND		5.0	4.5	mg/Kg		03/17/25 09:58	03/19/25 17:45	1
Diesel Range Organics [C10-C28]	ND		5.0	4.5	mg/Kg		03/17/25 09:58	03/19/25 17:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*104*		*29 - 160*	*03/17/25 09:58*	*03/19/25 17:45*	*1*

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

Client Sample ID: DP-5-10'
Date Collected: 03/07/25 08:15
Date Received: 03/08/25 10:44

Lab Sample ID: 570-221498-15
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6 as C6	ND		5.0	4.5	mg/Kg		03/17/25 09:58	03/19/25 18:11	1
C7 as C7	ND		5.0	4.5	mg/Kg		03/17/25 09:58	03/19/25 18:11	1
C8 as C8	ND		5.0	4.5	mg/Kg		03/17/25 09:58	03/19/25 18:11	1
C9-C10	ND		5.0	4.5	mg/Kg		03/17/25 09:58	03/19/25 18:11	1
C11-C12	ND		5.0	4.5	mg/Kg		03/17/25 09:58	03/19/25 18:11	1
C13-C14	ND		5.0	4.5	mg/Kg		03/17/25 09:58	03/19/25 18:11	1
C15-C16	ND		5.0	4.5	mg/Kg		03/17/25 09:58	03/19/25 18:11	1
C17-C18	ND		5.0	4.5	mg/Kg		03/17/25 09:58	03/19/25 18:11	1
C19-C20	ND		5.0	4.5	mg/Kg		03/17/25 09:58	03/19/25 18:11	1
C21-C22	ND		5.0	4.5	mg/Kg		03/17/25 09:58	03/19/25 18:11	1
C23-C24	ND		5.0	4.5	mg/Kg		03/17/25 09:58	03/19/25 18:11	1
C25-C28	ND		5.0	4.5	mg/Kg		03/17/25 09:58	03/19/25 18:11	1
C29-C32	ND		5.0	4.5	mg/Kg		03/17/25 09:58	03/19/25 18:11	1
C33-C36	ND		5.0	4.5	mg/Kg		03/17/25 09:58	03/19/25 18:11	1
C37-C40	ND		5.0	4.5	mg/Kg		03/17/25 09:58	03/19/25 18:11	1
C41-C44	ND		5.0	4.5	mg/Kg		03/17/25 09:58	03/19/25 18:11	1
C6-C44	**5.8**		5.0	4.5	mg/Kg		03/17/25 09:58	03/19/25 18:11	1
Diesel Range Organics [C10-C28]	ND		5.0	4.5	mg/Kg		03/17/25 09:58	03/19/25 18:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*46*		*29 - 160*	*03/17/25 09:58*	*03/19/25 18:11*	*1*

Client Sample ID: DP-6-2.5'
Date Collected: 03/07/25 13:55
Date Received: 03/08/25 10:44

Lab Sample ID: 570-221498-16
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6 as C6	ND		5.0	4.6	mg/Kg		03/17/25 11:22	03/20/25 06:35	1
C7 as C7	ND		5.0	4.6	mg/Kg		03/17/25 11:22	03/20/25 06:35	1
C8 as C8	ND		5.0	4.6	mg/Kg		03/17/25 11:22	03/20/25 06:35	1
C9-C10	ND		5.0	4.6	mg/Kg		03/17/25 11:22	03/20/25 06:35	1
C11-C12	ND		5.0	4.6	mg/Kg		03/17/25 11:22	03/20/25 06:35	1
C13-C14	ND		5.0	4.6	mg/Kg		03/17/25 11:22	03/20/25 06:35	1
C15-C16	ND		5.0	4.6	mg/Kg		03/17/25 11:22	03/20/25 06:35	1
C17-C18	ND		5.0	4.6	mg/Kg		03/17/25 11:22	03/20/25 06:35	1
C19-C20	ND		5.0	4.6	mg/Kg		03/17/25 11:22	03/20/25 06:35	1
C21-C22	ND		5.0	4.6	mg/Kg		03/17/25 11:22	03/20/25 06:35	1
C23-C24	ND		5.0	4.6	mg/Kg		03/17/25 11:22	03/20/25 06:35	1
C25-C28	ND		5.0	4.6	mg/Kg		03/17/25 11:22	03/20/25 06:35	1
C29-C32	ND		5.0	4.6	mg/Kg		03/17/25 11:22	03/20/25 06:35	1
C33-C36	ND		5.0	4.6	mg/Kg		03/17/25 11:22	03/20/25 06:35	1
C37-C40	ND		5.0	4.6	mg/Kg		03/17/25 11:22	03/20/25 06:35	1
C41-C44	ND		5.0	4.6	mg/Kg		03/17/25 11:22	03/20/25 06:35	1
C6-C44	ND		5.0	4.6	mg/Kg		03/17/25 11:22	03/20/25 06:35	1
Diesel Range Organics [C10-C28]	ND		5.0	4.6	mg/Kg		03/17/25 11:22	03/20/25 06:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*99*		*29 - 160*	*03/17/25 11:22*	*03/20/25 06:35*	*1*

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

Client Sample ID: DP-7-0.5'
Date Collected: 03/07/25 13:20
Date Received: 03/08/25 10:44

Lab Sample ID: 570-221498-19
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6 as C6	ND		5.0	4.5	mg/Kg		03/17/25 11:22	03/20/25 07:02	1
C7 as C7	ND		5.0	4.5	mg/Kg		03/17/25 11:22	03/20/25 07:02	1
C8 as C8	ND		5.0	4.5	mg/Kg		03/17/25 11:22	03/20/25 07:02	1
C9-C10	ND		5.0	4.5	mg/Kg		03/17/25 11:22	03/20/25 07:02	1
C11-C12	ND		5.0	4.5	mg/Kg		03/17/25 11:22	03/20/25 07:02	1
C13-C14	ND		5.0	4.5	mg/Kg		03/17/25 11:22	03/20/25 07:02	1
C15-C16	ND		5.0	4.5	mg/Kg		03/17/25 11:22	03/20/25 07:02	1
C17-C18	ND		5.0	4.5	mg/Kg		03/17/25 11:22	03/20/25 07:02	1
C19-C20	ND		5.0	4.5	mg/Kg		03/17/25 11:22	03/20/25 07:02	1
C21-C22	ND		5.0	4.5	mg/Kg		03/17/25 11:22	03/20/25 07:02	1
C23-C24	ND		5.0	4.5	mg/Kg		03/17/25 11:22	03/20/25 07:02	1
C25-C28	ND		5.0	4.5	mg/Kg		03/17/25 11:22	03/20/25 07:02	1
C29-C32	ND		5.0	4.5	mg/Kg		03/17/25 11:22	03/20/25 07:02	1
C33-C36	ND		5.0	4.5	mg/Kg		03/17/25 11:22	03/20/25 07:02	1
C37-C40	ND		5.0	4.5	mg/Kg		03/17/25 11:22	03/20/25 07:02	1
C41-C44	ND		5.0	4.5	mg/Kg		03/17/25 11:22	03/20/25 07:02	1
C6-C44	**13**		5.0	4.5	mg/Kg		03/17/25 11:22	03/20/25 07:02	1
Diesel Range Organics [C10-C28]	**7.6**		5.0	4.5	mg/Kg		03/17/25 11:22	03/20/25 07:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*97*		*29 - 160*	*03/17/25 11:22*	*03/20/25 07:02*	*1*

Client Sample ID: DP-8-5'
Date Collected: 03/07/25 13:00
Date Received: 03/08/25 10:44

Lab Sample ID: 570-221498-23
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6 as C6	ND		5.0	4.6	mg/Kg		03/17/25 11:22	03/20/25 07:28	1
C7 as C7	ND		5.0	4.6	mg/Kg		03/17/25 11:22	03/20/25 07:28	1
C8 as C8	ND		5.0	4.6	mg/Kg		03/17/25 11:22	03/20/25 07:28	1
C9-C10	ND		5.0	4.6	mg/Kg		03/17/25 11:22	03/20/25 07:28	1
C11-C12	ND		5.0	4.6	mg/Kg		03/17/25 11:22	03/20/25 07:28	1
C13-C14	ND		5.0	4.6	mg/Kg		03/17/25 11:22	03/20/25 07:28	1
C15-C16	ND		5.0	4.6	mg/Kg		03/17/25 11:22	03/20/25 07:28	1
C17-C18	ND		5.0	4.6	mg/Kg		03/17/25 11:22	03/20/25 07:28	1
C19-C20	ND		5.0	4.6	mg/Kg		03/17/25 11:22	03/20/25 07:28	1
C21-C22	ND		5.0	4.6	mg/Kg		03/17/25 11:22	03/20/25 07:28	1
C23-C24	ND		5.0	4.6	mg/Kg		03/17/25 11:22	03/20/25 07:28	1
C25-C28	ND		5.0	4.6	mg/Kg		03/17/25 11:22	03/20/25 07:28	1
C29-C32	ND		5.0	4.6	mg/Kg		03/17/25 11:22	03/20/25 07:28	1
C33-C36	ND		5.0	4.6	mg/Kg		03/17/25 11:22	03/20/25 07:28	1
C37-C40	ND		5.0	4.6	mg/Kg		03/17/25 11:22	03/20/25 07:28	1
C41-C44	ND		5.0	4.6	mg/Kg		03/17/25 11:22	03/20/25 07:28	1
C6-C44	**10**		5.0	4.6	mg/Kg		03/17/25 11:22	03/20/25 07:28	1
Diesel Range Organics [C10-C28]	ND		5.0	4.6	mg/Kg		03/17/25 11:22	03/20/25 07:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*96*		*29 - 160*	*03/17/25 11:22*	*03/20/25 07:28*	*1*

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

Client Sample ID: DP-9-7'
Date Collected: 03/07/25 12:35
Date Received: 03/08/25 10:44

Lab Sample ID: 570-221498-27
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6 as C6	ND		4.9	4.5	mg/Kg		03/17/25 11:22	03/19/25 22:44	1
C7 as C7	ND		4.9	4.5	mg/Kg		03/17/25 11:22	03/19/25 22:44	1
C8 as C8	ND		4.9	4.5	mg/Kg		03/17/25 11:22	03/19/25 22:44	1
C9-C10	ND		4.9	4.5	mg/Kg		03/17/25 11:22	03/19/25 22:44	1
C11-C12	ND		4.9	4.5	mg/Kg		03/17/25 11:22	03/19/25 22:44	1
C13-C14	ND		4.9	4.5	mg/Kg		03/17/25 11:22	03/19/25 22:44	1
C15-C16	ND		4.9	4.5	mg/Kg		03/17/25 11:22	03/19/25 22:44	1
C17-C18	ND		4.9	4.5	mg/Kg		03/17/25 11:22	03/19/25 22:44	1
C19-C20	ND		4.9	4.5	mg/Kg		03/17/25 11:22	03/19/25 22:44	1
C21-C22	ND		4.9	4.5	mg/Kg		03/17/25 11:22	03/19/25 22:44	1
C23-C24	ND		4.9	4.5	mg/Kg		03/17/25 11:22	03/19/25 22:44	1
C25-C28	ND		4.9	4.5	mg/Kg		03/17/25 11:22	03/19/25 22:44	1
C29-C32	ND		4.9	4.5	mg/Kg		03/17/25 11:22	03/19/25 22:44	1
C33-C36	ND		4.9	4.5	mg/Kg		03/17/25 11:22	03/19/25 22:44	1
C37-C40	ND		4.9	4.5	mg/Kg		03/17/25 11:22	03/19/25 22:44	1
C41-C44	ND		4.9	4.5	mg/Kg		03/17/25 11:22	03/19/25 22:44	1
C6-C44	ND		4.9	4.5	mg/Kg		03/17/25 11:22	03/19/25 22:44	1
Diesel Range Organics [C10-C28]	ND		4.9	4.5	mg/Kg		03/17/25 11:22	03/19/25 22:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*108*		*29 - 160*	*03/17/25 11:22*	*03/19/25 22:44*	*1*

Client Sample ID: DP-10-2.5'
Date Collected: 03/07/25 11:55
Date Received: 03/08/25 10:44

Lab Sample ID: 570-221498-29
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6 as C6	ND		5.0	4.6	mg/Kg		03/17/25 11:22	03/20/25 07:54	1
C7 as C7	ND		5.0	4.6	mg/Kg		03/17/25 11:22	03/20/25 07:54	1
C8 as C8	ND		5.0	4.6	mg/Kg		03/17/25 11:22	03/20/25 07:54	1
C9-C10	ND		5.0	4.6	mg/Kg		03/17/25 11:22	03/20/25 07:54	1
C11-C12	ND		5.0	4.6	mg/Kg		03/17/25 11:22	03/20/25 07:54	1
C13-C14	ND		5.0	4.6	mg/Kg		03/17/25 11:22	03/20/25 07:54	1
C15-C16	ND		5.0	4.6	mg/Kg		03/17/25 11:22	03/20/25 07:54	1
C17-C18	ND		5.0	4.6	mg/Kg		03/17/25 11:22	03/20/25 07:54	1
C19-C20	ND		5.0	4.6	mg/Kg		03/17/25 11:22	03/20/25 07:54	1
C21-C22	ND		5.0	4.6	mg/Kg		03/17/25 11:22	03/20/25 07:54	1
C23-C24	ND		5.0	4.6	mg/Kg		03/17/25 11:22	03/20/25 07:54	1
C25-C28	ND		5.0	4.6	mg/Kg		03/17/25 11:22	03/20/25 07:54	1
C29-C32	ND		5.0	4.6	mg/Kg		03/17/25 11:22	03/20/25 07:54	1
C33-C36	ND		5.0	4.6	mg/Kg		03/17/25 11:22	03/20/25 07:54	1
C37-C40	ND		5.0	4.6	mg/Kg		03/17/25 11:22	03/20/25 07:54	1
C41-C44	ND		5.0	4.6	mg/Kg		03/17/25 11:22	03/20/25 07:54	1
C6-C44	ND		5.0	4.6	mg/Kg		03/17/25 11:22	03/20/25 07:54	1
Diesel Range Organics [C10-C28]	ND		5.0	4.6	mg/Kg		03/17/25 11:22	03/20/25 07:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*96*		*29 - 160*	*03/17/25 11:22*	*03/20/25 07:54*	*1*

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

Client Sample ID: DP-11-2.5'
Date Collected: 03/07/25 16:35
Date Received: 03/08/25 10:44

Lab Sample ID: 570-221498-31
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6 as C6	ND		4.9	4.5	mg/Kg		03/17/25 11:22	03/20/25 08:20	1
C7 as C7	ND		4.9	4.5	mg/Kg		03/17/25 11:22	03/20/25 08:20	1
C8 as C8	ND		4.9	4.5	mg/Kg		03/17/25 11:22	03/20/25 08:20	1
C9-C10	ND		4.9	4.5	mg/Kg		03/17/25 11:22	03/20/25 08:20	1
C11-C12	ND		4.9	4.5	mg/Kg		03/17/25 11:22	03/20/25 08:20	1
C13-C14	ND		4.9	4.5	mg/Kg		03/17/25 11:22	03/20/25 08:20	1
C15-C16	ND		4.9	4.5	mg/Kg		03/17/25 11:22	03/20/25 08:20	1
C17-C18	ND		4.9	4.5	mg/Kg		03/17/25 11:22	03/20/25 08:20	1
C19-C20	ND		4.9	4.5	mg/Kg		03/17/25 11:22	03/20/25 08:20	1
C21-C22	ND		4.9	4.5	mg/Kg		03/17/25 11:22	03/20/25 08:20	1
C23-C24	ND		4.9	4.5	mg/Kg		03/17/25 11:22	03/20/25 08:20	1
C25-C28	ND		4.9	4.5	mg/Kg		03/17/25 11:22	03/20/25 08:20	1
C29-C32	ND		4.9	4.5	mg/Kg		03/17/25 11:22	03/20/25 08:20	1
C33-C36	ND		4.9	4.5	mg/Kg		03/17/25 11:22	03/20/25 08:20	1
C37-C40	ND		4.9	4.5	mg/Kg		03/17/25 11:22	03/20/25 08:20	1
C41-C44	ND		4.9	4.5	mg/Kg		03/17/25 11:22	03/20/25 08:20	1
C6-C44	**5.0**		4.9	4.5	mg/Kg		03/17/25 11:22	03/20/25 08:20	1
Diesel Range Organics [C10-C28]	**4.6**	**J**	4.9	4.5	mg/Kg		03/17/25 11:22	03/20/25 08:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*103*		*29 - 160*	*03/17/25 11:22*	*03/20/25 08:20*	*1*

Client Sample ID: DP-12-5'
Date Collected: 03/07/25 16:20
Date Received: 03/08/25 10:44

Lab Sample ID: 570-221498-36
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6 as C6	ND		5.0	4.6	mg/Kg		03/17/25 11:22	03/20/25 08:46	1
C7 as C7	ND		5.0	4.6	mg/Kg		03/17/25 11:22	03/20/25 08:46	1
C8 as C8	ND		5.0	4.6	mg/Kg		03/17/25 11:22	03/20/25 08:46	1
C9-C10	ND		5.0	4.6	mg/Kg		03/17/25 11:22	03/20/25 08:46	1
C11-C12	ND		5.0	4.6	mg/Kg		03/17/25 11:22	03/20/25 08:46	1
C13-C14	ND		5.0	4.6	mg/Kg		03/17/25 11:22	03/20/25 08:46	1
C15-C16	ND		5.0	4.6	mg/Kg		03/17/25 11:22	03/20/25 08:46	1
C17-C18	ND		5.0	4.6	mg/Kg		03/17/25 11:22	03/20/25 08:46	1
C19-C20	ND		5.0	4.6	mg/Kg		03/17/25 11:22	03/20/25 08:46	1
C21-C22	ND		5.0	4.6	mg/Kg		03/17/25 11:22	03/20/25 08:46	1
C23-C24	ND		5.0	4.6	mg/Kg		03/17/25 11:22	03/20/25 08:46	1
C25-C28	ND		5.0	4.6	mg/Kg		03/17/25 11:22	03/20/25 08:46	1
C29-C32	ND		5.0	4.6	mg/Kg		03/17/25 11:22	03/20/25 08:46	1
C33-C36	ND		5.0	4.6	mg/Kg		03/17/25 11:22	03/20/25 08:46	1
C37-C40	ND		5.0	4.6	mg/Kg		03/17/25 11:22	03/20/25 08:46	1
C41-C44	ND		5.0	4.6	mg/Kg		03/17/25 11:22	03/20/25 08:46	1
C6-C44	ND		5.0	4.6	mg/Kg		03/17/25 11:22	03/20/25 08:46	1
Diesel Range Organics [C10-C28]	ND		5.0	4.6	mg/Kg		03/17/25 11:22	03/20/25 08:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*98*		*29 - 160*	*03/17/25 11:22*	*03/20/25 08:46*	*1*

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

Client Sample ID: DP-13-5'
Date Collected: 03/07/25 15:40
Date Received: 03/08/25 10:44

Lab Sample ID: 570-221498-38
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6 as C6	ND		5.0	4.5	mg/Kg		03/17/25 11:22	03/20/25 09:13	1
C7 as C7	ND		5.0	4.5	mg/Kg		03/17/25 11:22	03/20/25 09:13	1
C8 as C8	ND		5.0	4.5	mg/Kg		03/17/25 11:22	03/20/25 09:13	1
C9-C10	ND		5.0	4.5	mg/Kg		03/17/25 11:22	03/20/25 09:13	1
C11-C12	ND		5.0	4.5	mg/Kg		03/17/25 11:22	03/20/25 09:13	1
C13-C14	ND		5.0	4.5	mg/Kg		03/17/25 11:22	03/20/25 09:13	1
C15-C16	ND		5.0	4.5	mg/Kg		03/17/25 11:22	03/20/25 09:13	1
C17-C18	ND		5.0	4.5	mg/Kg		03/17/25 11:22	03/20/25 09:13	1
C19-C20	ND		5.0	4.5	mg/Kg		03/17/25 11:22	03/20/25 09:13	1
C21-C22	ND		5.0	4.5	mg/Kg		03/17/25 11:22	03/20/25 09:13	1
C23-C24	ND		5.0	4.5	mg/Kg		03/17/25 11:22	03/20/25 09:13	1
C25-C28	ND		5.0	4.5	mg/Kg		03/17/25 11:22	03/20/25 09:13	1
C29-C32	ND		5.0	4.5	mg/Kg		03/17/25 11:22	03/20/25 09:13	1
C33-C36	ND		5.0	4.5	mg/Kg		03/17/25 11:22	03/20/25 09:13	1
C37-C40	ND		5.0	4.5	mg/Kg		03/17/25 11:22	03/20/25 09:13	1
C41-C44	ND		5.0	4.5	mg/Kg		03/17/25 11:22	03/20/25 09:13	1
C6-C44	ND		5.0	4.5	mg/Kg		03/17/25 11:22	03/20/25 09:13	1
Diesel Range Organics [C10-C28]	ND		5.0	4.5	mg/Kg		03/17/25 11:22	03/20/25 09:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*99*		*29 - 160*	*03/17/25 11:22*	*03/20/25 09:13*	*1*

Client Sample ID: DP-14-0.5'
Date Collected: 03/07/25 15:05
Date Received: 03/08/25 10:44

Lab Sample ID: 570-221498-40
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6 as C6	ND		5.0	4.5	mg/Kg		03/17/25 11:22	03/20/25 09:39	1
C7 as C7	ND		5.0	4.5	mg/Kg		03/17/25 11:22	03/20/25 09:39	1
C8 as C8	ND		5.0	4.5	mg/Kg		03/17/25 11:22	03/20/25 09:39	1
C9-C10	ND		5.0	4.5	mg/Kg		03/17/25 11:22	03/20/25 09:39	1
C11-C12	ND		5.0	4.5	mg/Kg		03/17/25 11:22	03/20/25 09:39	1
C13-C14	ND		5.0	4.5	mg/Kg		03/17/25 11:22	03/20/25 09:39	1
C15-C16	ND		5.0	4.5	mg/Kg		03/17/25 11:22	03/20/25 09:39	1
C17-C18	ND		5.0	4.5	mg/Kg		03/17/25 11:22	03/20/25 09:39	1
C19-C20	ND		5.0	4.5	mg/Kg		03/17/25 11:22	03/20/25 09:39	1
C21-C22	ND		5.0	4.5	mg/Kg		03/17/25 11:22	03/20/25 09:39	1
C23-C24	ND		5.0	4.5	mg/Kg		03/17/25 11:22	03/20/25 09:39	1
C25-C28	ND		5.0	4.5	mg/Kg		03/17/25 11:22	03/20/25 09:39	1
C29-C32	ND		5.0	4.5	mg/Kg		03/17/25 11:22	03/20/25 09:39	1
C33-C36	ND		5.0	4.5	mg/Kg		03/17/25 11:22	03/20/25 09:39	1
C37-C40	ND		5.0	4.5	mg/Kg		03/17/25 11:22	03/20/25 09:39	1
C41-C44	ND		5.0	4.5	mg/Kg		03/17/25 11:22	03/20/25 09:39	1
C6-C44	**8.0**		5.0	4.5	mg/Kg		03/17/25 11:22	03/20/25 09:39	1
Diesel Range Organics [C10-C28]	**5.2**		5.0	4.5	mg/Kg		03/17/25 11:22	03/20/25 09:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*100*		*29 - 160*	*03/17/25 11:22*	*03/20/25 09:39*	*1*

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

Client Sample ID: DP-15-5'
Date Collected: 03/07/25 14:40
Date Received: 03/08/25 10:44

Lab Sample ID: 570-221498-45
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6 as C6	ND		5.0	4.6	mg/Kg		03/17/25 11:22	03/20/25 10:05	1
C7 as C7	ND		5.0	4.6	mg/Kg		03/17/25 11:22	03/20/25 10:05	1
C8 as C8	ND		5.0	4.6	mg/Kg		03/17/25 11:22	03/20/25 10:05	1
C9-C10	ND		5.0	4.6	mg/Kg		03/17/25 11:22	03/20/25 10:05	1
C11-C12	ND		5.0	4.6	mg/Kg		03/17/25 11:22	03/20/25 10:05	1
C13-C14	ND		5.0	4.6	mg/Kg		03/17/25 11:22	03/20/25 10:05	1
C15-C16	ND		5.0	4.6	mg/Kg		03/17/25 11:22	03/20/25 10:05	1
C17-C18	ND		5.0	4.6	mg/Kg		03/17/25 11:22	03/20/25 10:05	1
C19-C20	ND		5.0	4.6	mg/Kg		03/17/25 11:22	03/20/25 10:05	1
C21-C22	ND		5.0	4.6	mg/Kg		03/17/25 11:22	03/20/25 10:05	1
C23-C24	ND		5.0	4.6	mg/Kg		03/17/25 11:22	03/20/25 10:05	1
C25-C28	ND		5.0	4.6	mg/Kg		03/17/25 11:22	03/20/25 10:05	1
C29-C32	ND		5.0	4.6	mg/Kg		03/17/25 11:22	03/20/25 10:05	1
C33-C36	ND		5.0	4.6	mg/Kg		03/17/25 11:22	03/20/25 10:05	1
C37-C40	ND		5.0	4.6	mg/Kg		03/17/25 11:22	03/20/25 10:05	1
C41-C44	ND		5.0	4.6	mg/Kg		03/17/25 11:22	03/20/25 10:05	1
C6-C44	ND		5.0	4.6	mg/Kg		03/17/25 11:22	03/20/25 10:05	1
Diesel Range Organics [C10-C28]	ND		5.0	4.6	mg/Kg		03/17/25 11:22	03/20/25 10:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*101*		*29 - 160*	*03/17/25 11:22*	*03/20/25 10:05*	*1*

Surrogate Summary

Client: Jacob & Hefner Associates P.C.
Project/Site: UCSB - KITP

Job ID: 570-221498-1

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)						
Lab Sample ID	Client Sample ID	OTCSN1 (29-160)						
570-221498-2	DP-1-5'	105						
570-221498-6	DP-2-7'	100						
570-221498-8	DP-3-2.5'	110						
570-221498-11	DP-4-5'	104						
570-221498-15	DP-5-10'	46						
570-221498-16	DP-6-2.5'	99						
570-221498-19	DP-7-0.5'	97						
570-221498-23	DP-8-5'	96						
570-221498-27	DP-9-7'	108						
570-221498-27 MS	DP-9-7'	110						
570-221498-27 MSD	DP-9-7'	110						
570-221498-29	DP-10-2.5'	96						
570-221498-31	DP-11-2.5'	103						
570-221498-36	DP-12-5'	98						
570-221498-38	DP-13-5'	99						
570-221498-40	DP-14-0.5'	100						
570-221498-45	DP-15-5'	101						
LCS 570-545803/2-A	Lab Control Sample	121						
LCS 570-545853/2-A	Lab Control Sample	106						
LCSD 570-545803/3-A	Lab Control Sample Dup	117						
LCSD 570-545853/3-A	Lab Control Sample Dup	106						
MB 570-545803/1-A	Method Blank	124						
MB 570-545853/1-A	Method Blank	110						

Surrogate Legend

OTCSN = n-Octacosane (Surr)

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

Lab Sample ID: MB 570-545803/1-A
Matrix: Solid
Analysis Batch: 546343

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 545803

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6 as C6	ND		5.0	4.6	mg/Kg		03/17/25 09:58	03/18/25 16:21	1
C7 as C7	ND		5.0	4.6	mg/Kg		03/17/25 09:58	03/18/25 16:21	1
C8 as C8	ND		5.0	4.6	mg/Kg		03/17/25 09:58	03/18/25 16:21	1
C9-C10	ND		5.0	4.6	mg/Kg		03/17/25 09:58	03/18/25 16:21	1
C11-C12	ND		5.0	4.6	mg/Kg		03/17/25 09:58	03/18/25 16:21	1
C13-C14	ND		5.0	4.6	mg/Kg		03/17/25 09:58	03/18/25 16:21	1
C15-C16	ND		5.0	4.6	mg/Kg		03/17/25 09:58	03/18/25 16:21	1
C17-C18	ND		5.0	4.6	mg/Kg		03/17/25 09:58	03/18/25 16:21	1
C19-C20	ND		5.0	4.6	mg/Kg		03/17/25 09:58	03/18/25 16:21	1
C21-C22	ND		5.0	4.6	mg/Kg		03/17/25 09:58	03/18/25 16:21	1
C23-C24	ND		5.0	4.6	mg/Kg		03/17/25 09:58	03/18/25 16:21	1
C25-C28	ND		5.0	4.6	mg/Kg		03/17/25 09:58	03/18/25 16:21	1
C29-C32	ND		5.0	4.6	mg/Kg		03/17/25 09:58	03/18/25 16:21	1
C33-C36	ND		5.0	4.6	mg/Kg		03/17/25 09:58	03/18/25 16:21	1
C37-C40	ND		5.0	4.6	mg/Kg		03/17/25 09:58	03/18/25 16:21	1
C41-C44	ND		5.0	4.6	mg/Kg		03/17/25 09:58	03/18/25 16:21	1
C6-C44	ND		5.0	4.6	mg/Kg		03/17/25 09:58	03/18/25 16:21	1
Diesel Range Organics [C10-C28]	ND		5.0	4.6	mg/Kg		03/17/25 09:58	03/18/25 16:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*124*		*29 - 160*	*03/17/25 09:58*	*03/18/25 16:21*	*1*

Lab Sample ID: LCS 570-545803/2-A
Matrix: Solid
Analysis Batch: 546343

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 545803

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			400	424.9		mg/Kg		106	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
n-Octacosane (Surr)	*121*		*29 - 160*

Lab Sample ID: LCSD 570-545803/3-A
Matrix: Solid
Analysis Batch: 546343

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 545803

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			400	414.9		mg/Kg		104	70 - 130	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
n-Octacosane (Surr)	*117*		*29 - 160*

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

Lab Sample ID: MB 570-545853/1-A
Matrix: Solid
Analysis Batch: 546871

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 545853

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6 as C6	ND		5.0	4.6	mg/Kg		03/17/25 11:22	03/19/25 20:32	1
C7 as C7	ND		5.0	4.6	mg/Kg		03/17/25 11:22	03/19/25 20:32	1
C8 as C8	ND		5.0	4.6	mg/Kg		03/17/25 11:22	03/19/25 20:32	1
C9-C10	ND		5.0	4.6	mg/Kg		03/17/25 11:22	03/19/25 20:32	1
C11-C12	ND		5.0	4.6	mg/Kg		03/17/25 11:22	03/19/25 20:32	1
C13-C14	ND		5.0	4.6	mg/Kg		03/17/25 11:22	03/19/25 20:32	1
C15-C16	ND		5.0	4.6	mg/Kg		03/17/25 11:22	03/19/25 20:32	1
C17-C18	ND		5.0	4.6	mg/Kg		03/17/25 11:22	03/19/25 20:32	1
C19-C20	ND		5.0	4.6	mg/Kg		03/17/25 11:22	03/19/25 20:32	1
C21-C22	ND		5.0	4.6	mg/Kg		03/17/25 11:22	03/19/25 20:32	1
C23-C24	ND		5.0	4.6	mg/Kg		03/17/25 11:22	03/19/25 20:32	1
C25-C28	ND		5.0	4.6	mg/Kg		03/17/25 11:22	03/19/25 20:32	1
C29-C32	ND		5.0	4.6	mg/Kg		03/17/25 11:22	03/19/25 20:32	1
C33-C36	ND		5.0	4.6	mg/Kg		03/17/25 11:22	03/19/25 20:32	1
C37-C40	ND		5.0	4.6	mg/Kg		03/17/25 11:22	03/19/25 20:32	1
C41-C44	ND		5.0	4.6	mg/Kg		03/17/25 11:22	03/19/25 20:32	1
C6-C44	ND		5.0	4.6	mg/Kg		03/17/25 11:22	03/19/25 20:32	1
Diesel Range Organics [C10-C28]	ND		5.0	4.6	mg/Kg		03/17/25 11:22	03/19/25 20:32	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*110*		*29 - 160*	*03/17/25 11:22*	*03/19/25 20:32*	*1*

Lab Sample ID: LCS 570-545853/2-A
Matrix: Solid
Analysis Batch: 546871

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 545853

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			400	425.5		mg/Kg		106	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
n-Octacosane (Surr)	*106*		*29 - 160*

Lab Sample ID: LCSD 570-545853/3-A
Matrix: Solid
Analysis Batch: 546871

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 545853

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			400	421.1		mg/Kg		105	70 - 130	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
n-Octacosane (Surr)	*106*		*29 - 160*

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

Lab Sample ID: 570-221498-27 MS
Matrix: Solid
Analysis Batch: 546871

Client Sample ID: DP-9-7'
Prep Type: Total/NA
Prep Batch: 545853

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]	ND		399	442.4		mg/Kg		111	43 - 165		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
n-Octacosane (Surr)	*110*		*29 - 160*

Lab Sample ID: 570-221498-27 MSD
Matrix: Solid
Analysis Batch: 546871

Client Sample ID: DP-9-7'
Prep Type: Total/NA
Prep Batch: 545853

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	ND		400	435.1		mg/Kg		109	43 - 165	2	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
n-Octacosane (Surr)	*110*		*29 - 160*

GC Semi VOA

Prep Batch: 545803

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-221498-2	DP-1-5'	Total/NA	Solid	3550C	
570-221498-6	DP-2-7'	Total/NA	Solid	3550C	
570-221498-8	DP-3-2.5'	Total/NA	Solid	3550C	
570-221498-11	DP-4-5'	Total/NA	Solid	3550C	
570-221498-15	DP-5-10'	Total/NA	Solid	3550C	
MB 570-545803/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 570-545803/2-A	Lab Control Sample	Total/NA	Solid	3550C	
LCSD 570-545803/3-A	Lab Control Sample Dup	Total/NA	Solid	3550C	

Prep Batch: 545853

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-221498-16	DP-6-2.5'	Total/NA	Solid	3550C	
570-221498-19	DP-7-0.5'	Total/NA	Solid	3550C	
570-221498-23	DP-8-5'	Total/NA	Solid	3550C	
570-221498-27	DP-9-7'	Total/NA	Solid	3550C	
570-221498-29	DP-10-2.5'	Total/NA	Solid	3550C	
570-221498-31	DP-11-2.5'	Total/NA	Solid	3550C	
570-221498-36	DP-12-5'	Total/NA	Solid	3550C	
570-221498-38	DP-13-5'	Total/NA	Solid	3550C	
570-221498-40	DP-14-0.5'	Total/NA	Solid	3550C	
570-221498-45	DP-15-5'	Total/NA	Solid	3550C	
MB 570-545853/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 570-545853/2-A	Lab Control Sample	Total/NA	Solid	3550C	
LCSD 570-545853/3-A	Lab Control Sample Dup	Total/NA	Solid	3550C	
570-221498-27 MS	DP-9-7'	Total/NA	Solid	3550C	
570-221498-27 MSD	DP-9-7'	Total/NA	Solid	3550C	

Analysis Batch: 546343

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-545803/1-A	Method Blank	Total/NA	Solid	8015B	545803
LCS 570-545803/2-A	Lab Control Sample	Total/NA	Solid	8015B	545803
LCSD 570-545803/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B	545803

Analysis Batch: 546868

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-221498-2	DP-1-5'	Total/NA	Solid	8015B	545803
570-221498-6	DP-2-7'	Total/NA	Solid	8015B	545803
570-221498-8	DP-3-2.5'	Total/NA	Solid	8015B	545803
570-221498-11	DP-4-5'	Total/NA	Solid	8015B	545803
570-221498-15	DP-5-10'	Total/NA	Solid	8015B	545803

Analysis Batch: 546871

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-221498-27	DP-9-7'	Total/NA	Solid	8015B	545853
MB 570-545853/1-A	Method Blank	Total/NA	Solid	8015B	545853
LCS 570-545853/2-A	Lab Control Sample	Total/NA	Solid	8015B	545853
LCSD 570-545853/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B	545853
570-221498-27 MS	DP-9-7'	Total/NA	Solid	8015B	545853
570-221498-27 MSD	DP-9-7'	Total/NA	Solid	8015B	545853

QC Association Summary

Client: Jacob & Hefner Associates P.C.
Project/Site: UCSB - KITP

Job ID: 570-221498-1

GC Semi VOA

Analysis Batch: 547109

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-221498-16	DP-6-2.5'	Total/NA	Solid	8015B	545853
570-221498-19	DP-7-0.5'	Total/NA	Solid	8015B	545853
570-221498-23	DP-8-5'	Total/NA	Solid	8015B	545853
570-221498-29	DP-10-2.5'	Total/NA	Solid	8015B	545853
570-221498-31	DP-11-2.5'	Total/NA	Solid	8015B	545853
570-221498-36	DP-12-5'	Total/NA	Solid	8015B	545853
570-221498-38	DP-13-5'	Total/NA	Solid	8015B	545853
570-221498-40	DP-14-0.5'	Total/NA	Solid	8015B	545853
570-221498-45	DP-15-5'	Total/NA	Solid	8015B	545853

Lab Chronicle

Client: Jacob & Hefner Associates P.C.
Project/Site: UCSB - KITP

Job ID: 570-221498-1

Client Sample ID: DP-1-5'
Date Collected: 03/07/25 11:40
Date Received: 03/08/25 10:44

Lab Sample ID: 570-221498-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			10.06 g	10 mL	545803	03/17/25 09:58	HZX5	EET CAL 4
Total/NA	Analysis	8015B		1	10 mL	10 mL	546868	03/19/25 16:26	NR	EET CAL 4
	Instrument ID: GC100									

Client Sample ID: DP-2-7'
Date Collected: 03/07/25 11:30
Date Received: 03/08/25 10:44

Lab Sample ID: 570-221498-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			10.02 g	10 mL	545803	03/17/25 09:58	HZX5	EET CAL 4
Total/NA	Analysis	8015B		1	10 mL	10 mL	546868	03/19/25 16:53	NR	EET CAL 4
	Instrument ID: GC100									

Client Sample ID: DP-3-2.5'
Date Collected: 03/07/25 10:15
Date Received: 03/08/25 10:44

Lab Sample ID: 570-221498-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			10.00 g	10 mL	545803	03/17/25 09:58	HZX5	EET CAL 4
Total/NA	Analysis	8015B		1	10 mL	10 mL	546868	03/19/25 17:19	NR	EET CAL 4
	Instrument ID: GC100									

Client Sample ID: DP-4-5'
Date Collected: 03/07/25 09:15
Date Received: 03/08/25 10:44

Lab Sample ID: 570-221498-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			10.10 g	10 mL	545803	03/17/25 09:58	HZX5	EET CAL 4
Total/NA	Analysis	8015B		1	10 mL	10 mL	546868	03/19/25 17:45	NR	EET CAL 4
	Instrument ID: GC100									

Client Sample ID: DP-5-10'
Date Collected: 03/07/25 08:15
Date Received: 03/08/25 10:44

Lab Sample ID: 570-221498-15
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			10.06 g	10 mL	545803	03/17/25 09:58	HZX5	EET CAL 4
Total/NA	Analysis	8015B		1	10 mL	10 mL	546868	03/19/25 18:11	NR	EET CAL 4
	Instrument ID: GC100									

Lab Chronicle

Client: Jacob & Hefner Associates P.C.
Project/Site: UCSB - KITP

Job ID: 570-221498-1

Client Sample ID: DP-6-2.5'
Date Collected: 03/07/25 13:55
Date Received: 03/08/25 10:44

Lab Sample ID: 570-221498-16
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			10.04 g	10 mL	545853	03/17/25 11:22	HZX5	EET CAL 4
Total/NA	Analysis	8015B		1			547109	03/20/25 06:35	H6FE	EET CAL 4
	Instrument ID: GC100B									

Client Sample ID: DP-7-0.5'
Date Collected: 03/07/25 13:20
Date Received: 03/08/25 10:44

Lab Sample ID: 570-221498-19
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			10.09 g	10 mL	545853	03/17/25 11:22	HZX5	EET CAL 4
Total/NA	Analysis	8015B		1			547109	03/20/25 07:02	H6FE	EET CAL 4
	Instrument ID: GC100B									

Client Sample ID: DP-8-5'
Date Collected: 03/07/25 13:00
Date Received: 03/08/25 10:44

Lab Sample ID: 570-221498-23
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			10.02 g	10 mL	545853	03/17/25 11:22	HZX5	EET CAL 4
Total/NA	Analysis	8015B		1			547109	03/20/25 07:28	H6FE	EET CAL 4
	Instrument ID: GC100B									

Client Sample ID: DP-9-7'
Date Collected: 03/07/25 12:35
Date Received: 03/08/25 10:44

Lab Sample ID: 570-221498-27
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			10.13 g	10 mL	545853	03/17/25 11:22	HZX5	EET CAL 4
Total/NA	Analysis	8015B		1			546871	03/19/25 22:44	NR	EET CAL 4
	Instrument ID: GC100B									

Client Sample ID: DP-10-2.5'
Date Collected: 03/07/25 11:55
Date Received: 03/08/25 10:44

Lab Sample ID: 570-221498-29
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			10.02 g	10 mL	545853	03/17/25 11:22	HZX5	EET CAL 4
Total/NA	Analysis	8015B		1			547109	03/20/25 07:54	H6FE	EET CAL 4
	Instrument ID: GC100B									

Lab Chronicle

Client: Jacob & Hefner Associates P.C.
Project/Site: UCSB - KITP

Job ID: 570-221498-1

Client Sample ID: DP-11-2.5'
Date Collected: 03/07/25 16:35
Date Received: 03/08/25 10:44

Lab Sample ID: 570-221498-31
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			10.15 g	10 mL	545853	03/17/25 11:22	HZX5	EET CAL 4
Total/NA	Analysis	8015B		1			547109	03/20/25 08:20	H6FE	EET CAL 4
	Instrument ID: GC100B									

Client Sample ID: DP-12-5'
Date Collected: 03/07/25 16:20
Date Received: 03/08/25 10:44

Lab Sample ID: 570-221498-36
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			10.04 g	10 mL	545853	03/17/25 11:22	HZX5	EET CAL 4
Total/NA	Analysis	8015B		1			547109	03/20/25 08:46	H6FE	EET CAL 4
	Instrument ID: GC100B									

Client Sample ID: DP-13-5'
Date Collected: 03/07/25 15:40
Date Received: 03/08/25 10:44

Lab Sample ID: 570-221498-38
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			10.09 g	10 mL	545853	03/17/25 11:22	HZX5	EET CAL 4
Total/NA	Analysis	8015B		1			547109	03/20/25 09:13	H6FE	EET CAL 4
	Instrument ID: GC100B									

Client Sample ID: DP-14-0.5'
Date Collected: 03/07/25 15:05
Date Received: 03/08/25 10:44

Lab Sample ID: 570-221498-40
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			10.09 g	10 mL	545853	03/17/25 11:22	HZX5	EET CAL 4
Total/NA	Analysis	8015B		1			547109	03/20/25 09:39	H6FE	EET CAL 4
	Instrument ID: GC100B									

Client Sample ID: DP-15-5'
Date Collected: 03/07/25 14:40
Date Received: 03/08/25 10:44

Lab Sample ID: 570-221498-45
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			10.00 g	10 mL	545853	03/17/25 11:22	HZX5	EET CAL 4
Total/NA	Analysis	8015B		1			547109	03/20/25 10:05	H6FE	EET CAL 4
	Instrument ID: GC100B									

Laboratory References:

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

Accreditation/Certification Summary

Client: Jacob & Hefner Associates P.C.
Job ID: 570-221498-1
Project/Site: UCSB - KITP

Laboratory: Eurofins Calscience

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	3082	07-31-25
Oregon	NELAP	4175	02-02-26

Method Summary

Client: Jacob & Hefner Associates P.C.
Project/Site: UCSB - KITP

Job ID: 570-221498-1

Method	Method Description	Protocol	Laboratory
8015B	Diesel Range Organics (DRO) (GC)	SW846	EET CAL 4
3550C	Ultrasonic Extraction	SW846	EET CAL 4

Protocol References:

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

Laboratory References:

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

Sample Summary

Client: Jacob & Hefner Associates P.C.
Project/Site: UCSB - KITP

Job ID: 570-221498-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-221498-2	DP-1-5'	Solid	03/07/25 11:40	03/08/25 10:44
570-221498-6	DP-2-7'	Solid	03/07/25 11:30	03/08/25 10:44
570-221498-8	DP-3-2.5'	Solid	03/07/25 10:15	03/08/25 10:44
570-221498-11	DP-4-5'	Solid	03/07/25 09:15	03/08/25 10:44
570-221498-15	DP-5-10'	Solid	03/07/25 08:15	03/08/25 10:44
570-221498-16	DP-6-2.5'	Solid	03/07/25 13:55	03/08/25 10:44
570-221498-19	DP-7-0.5'	Solid	03/07/25 13:20	03/08/25 10:44
570-221498-23	DP-8-5'	Solid	03/07/25 13:00	03/08/25 10:44
570-221498-27	DP-9-7'	Solid	03/07/25 12:35	03/08/25 10:44
570-221498-29	DP-10-2.5'	Solid	03/07/25 11:55	03/08/25 10:44
570-221498-31	DP-11-2.5'	Solid	03/07/25 16:35	03/08/25 10:44
570-221498-36	DP-12-5'	Solid	03/07/25 16:20	03/08/25 10:44
570-221498-38	DP-13-5'	Solid	03/07/25 15:40	03/08/25 10:44
570-221498-40	DP-14-0.5'	Solid	03/07/25 15:05	03/08/25 10:44
570-221498-45	DP-15-5'	Solid	03/07/25 14:40	03/08/25 10:44

221498

Eurofins Calscience LLC
2841 Dow Avenue, Suite 100
Tustin, CA 92780
Phone (714) 895-5494 Fax (714) 894-7501

Chain of Custody Record

570-221498 Chain of Custody

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Client Information	Sampler: Stacie Aichner	Lab PM: Terri Chang	C No:
Client Contact: Chad Jenkins	Phone: 805.832.0718	E-Mail: Terri.Chang@eurofinset.com	Page: Page 1 of 4
Company: JHA Environmental, Inc.			Job #:
Address: 15375 Barranca Parkway, Suite J-101	Due Date Requested:		
City: Irvine	TAT Requested (days): normal TAT		
State, Zip: CA, 92618			
Phone: 714-421-2377	PO #: F039g_1L_803		
Email: cjenkins@jhainc.com	WO #:		
Project Name: UCSB - KITP	Project #:		
Site:	SSOW#:		

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other: Terra Core

Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015B TPH full range carbon chain	8260B Full Suite VOCs - Terra Core	6010B Title 22 Metals	Total Number of containers	Special Instructions/Note:
				Preservation Code:				N	Z	N		
DP-1- 0.5'	1	03/07/25	1135	G	S	N	N					HOLD
DP-1- 5'	2	03/07/25	1140	G	S	N	N	X				
DP-1- 10'	3	03/07/25	1145	G	S	N	N					HOLD
DP-2- 2.5'	4	03/07/25	1105	G	S	N	N					HOLD
DP-2- 5'	5	03/07/25	1115	G	S	N	N					HOLD
DP-2- 7'	6	03/07/25	1130	G	S	N	N	X				
DP-3- 0.5'	7	03/07/25	1005	G	S	N	N					HOLD
DP-3- 2.5'	8	03/07/25	1015	G	S	N	N	X				
DP-3- 5'	9	03/07/25	1030	G	S	N	N					HOLD
DP-4- 2.5'	10	03/07/25	0910	G	S	N	N					HOLD
DP-4- 5'	11	03/07/25	0915	G	S	N	N	X				
DP-4- 7'	12	03/07/25	0930	G	S	N	N					HOLD

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) EDF Global ID:

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	3/8/25 0700	JHA	Ruben Nunez	3/8/25 0700	JHA
Relinquished by: Ruben Nunez	Date/Time: 3/8/25 1044	Company JHA	Received by:	3/08/2025 1044	Company EC
Relinquished by:	Date/Time:	Company	Received by:		Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 2.3/2.3 , 3.0/3.0 , 2.2/2.2 IR 92

HAMW

Ver: 01/16/2019

3/21/2025

221493

Eurofins Calscience LLC
7440 Lincoln Way
Garden Grove, CA 92841
Phone (714) 895-5494 Fax (714) 894-7501

Chain of Custody Record

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Client Information	Sampler: Stacie Aichner	Lab PM: Terri Chang	Carrier Tracking No(s):	COC No:
Client Contact: Chad Jenkins	Phone: 805.832.0718	E-Mail: Terri.Chang@eurofinset.com		Page: Page 2 of 4
Company: JHA Environmental, Inc.		Analysis Requested		Job #:
Address: 15375 Barranca Parkway, Suite J-101	Due Date Requested:			Preservation Codes:
City: Irvine	TAT Requested (days): normal TAT			A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
State, Zip: CA, 92618				
Phone: 714-421-2377	PO #: F039g_1L_803			
Email: cjenkins@jhainc.com	WO #:			Other: Terra Core
Project Name: UCSB - KITP	Project #:			
Site:	SSOW#:			

Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015B TPH full range carbon chain	8260B Full Suite VOCs - Terra Core	6010B Title 22 Metals												Total Number of containers	Special Instructions/Note:
				Preservation Code:		N	N	N	Z	N													
DP-5- 2.5'	13	03/07/25	0800	G	S	N	N																HOLD
DP-5- 5'	14	03/07/25	0805	G	S	N	N																HOLD
DP-5- 10'	15	03/07/25	0815	G	S	N	N	X															
DP-6- 2.5'	16	03/07/25	1355	G	S	N	N	X															
DP-6- 5'	17	03/07/25	1400	G	S	N	N																HOLD
DP-6- 7'	18	03/07/25	1410	G	S	N	N																HOLD
DP-7- 0.5'	19	03/07/25	1320	G	S	N	N	X															
DP-7- 2.5'	20	03/07/25	1325	G	S	N	N																HOLD
DP-7- 5'	21	03/07/25	1335	G	S	N	N																HOLD
DP-8- 0.5'	22	03/07/25	1250	G	S	N	N																HOLD
DP-8- 5'	23	03/07/25	1300	G	S	N	N	X															
DP-8- 10'	24	03/07/25	1310	G	S	N	N																HOLD

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) EDF Global ID:

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	3/8/25 0700	JHA	Ruben Nuñez	3/8/25 0700	JHA
Ruben Nuñez	3/8/25 10:44	JHA		3/8/2025 1044	EC
Relinquished by:	Date/Time:	Company	Received by:		Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

3/21/2025

221498

Eurofins Calscience LLC
7440 Lincoln Way
Garden Grove, CA 92841
Phone (714) 895-5494 Fax (714) 894-7501

Chain of Custody Record

eurofins | Calscience

Client Information	Sampler: Stacie Aichner	Lab PM: Terri Chang	Carrier Tracking No(s):	COC No:
Client Contact: Chad Jenkins	Phone: 805.832.0718	E-Mail: Terri.Chang@eurofinset.com		Page: Page 3 of 4
Company: JHA Environmental, Inc.				Job #:
Address: 15375 Barranca Parkway, Suite J-101	Due Date Requested:	Analysis Requested		Preservation Codes:
City: Irvine	TAT Requested (days): normal TAT			A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
State, Zip: CA, 92618				Other: Terra Core
Phone: 714-421-2377	PO #: F039g_1L_803			
Email: cjenkins@jhainc.com	WO #:			
Project Name: UCSB - KITP	Project #:			
Site:	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015B TPH full range carbon chain	8260B Full Suite VOCs - Terra Core	6010B Title 22 Metals	Total Number of containers	Special Instructions/Note:
			Preservation Code:				Z	Z	N		
DP-9- 2.5' 25	03/07/25	1220	G	S	N	N					HOLD
DP-9- 5' 26	03/07/25	1225	G	S	N	N					HOLD
DP-9- 7' 27	03/07/25	1235	G	S	N	N	X				
DP-10- 0.5' 28	03/07/25	1150	G	S	N	N					HOLD
DP-10- 2.5' 29	03/07/25	1155	G	S	N	N	X				
DP-10- 5' 30	03/07/25	1200	G	S	N	N					HOLD
DP-11- 2.5' 31	03/07/25	1635	G	S	N	N	X				
DP-11- 5' 32	03/07/25	1640	G	S	N	N					HOLD
DP-11- 10' 33	03/07/25	1650	G	S	N	N					HOLD
DP-12- 0.5' 34	03/07/25	1605	G	S	N	N					HOLD
DP-12- 2.5' 35	03/07/25	1610	G	S	N	N					HOLD
DP-12- 5' 36	03/07/25	1620	G	S	N	N	X				

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) EDF | Global ID:

Special Instructions/QC Requirements:

Empty Kit Relinquished by: | Date: | Time: | Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	3/8/25 0700	JHA	Ryan Metz	3/8/25 0700	JHA
Ryan Metz	3/8/25 10:44	JHA	[signature]	3/8/2025 1044	EC
Relinquished by:	Date/Time:	Company	Received by:		Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

221498

Eurofins Calscience LLC
7440 Lincoln Way
Garden Grove, CA 92841
Phone (714) 895-5494 Fax (714) 894-7501

Chain of Custody Record

eurofins | Calscience

Client Information	Sampler: Stacie Aichner	Lab PM: Terri Chang	Carrier Tracking No(s):	COC No:
Client Contact: Chad Jenkins	Phone: 805.832.0718	E-Mail: Terri.Chang@eurofinset.com		Page: Page 4 of 4
Company: JHA Environmental, Inc.				Job #:
Address: 15375 Barranca Parkway, Suite J-101	Due Date Requested:			
City: Irvine	TAT Requested (days): normal TAT			
State, Zip: CA, 92618				
Phone: 714-421-2377	PO #: F039g_1L_803			
Email: cjenkins@jhainc.com	WO #:			
Project Name: UCSB - KITP	Project #:			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other: Terra Core

Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015B TPH full range carbon chain	8260B Full Suite VOCs - Terra Core	6010B Title 22 Metals	Total Number of containers	Special Instructions/Note:
				Preservation Code:		X	X	N	Z	N	X	
DP-13- 2.5'	37	03/07/25	1535	G	S	N	N					HOLD
DP-13- 5'	38	03/07/25	1540	G	S	N	N	X				
DP-13- 7'	39	03/07/25	1550	G	S	N	N					HOLD
DP-14- 0.5'	40	03/07/25	1505	G	S	N	N	X				
DP-14- 5'	41	03/07/25	1510	G	S	N	N					HOLD
DP-14- 10'	42	03/07/25	1520	G	S	N	N					HOLD
DP-15- 0.5'	43	03/07/25	1425	G	S	N	N					HOLD
DP-15- 2.5'	44	03/07/25	1430	G	S	N	N					HOLD
DP-15- 5'	45	03/07/25	1440	G	S	N	N	X				

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) EDF Global ID:

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	3/8/25 0700	JHA	Ruben Nuñez	3/8/25 0700	JHA
Relinquished by: Ruben Nuñez	Date/Time: 3/8/25 ~~1044~~ 1044	Company JHA	Received by:	3/8/2025 1044	Company EC
Relinquished by:	Date/Time:	Company	Received by:		Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: Jacob & Hefner Associates P.C.

Job Number: 570-221498-1

Login Number: 221498
List Number: 1
Creator: Le, Sunny

List Source: Eurofins Calscience

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