ADDITIONAL SITE INVESTIGATION REPORT
CHEVRON SERVICE STATION 96817
1705 CONTRA COSTA BOULEVARD
PLEASANT HILL, CALIFORNIA

Submitted To:

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1.0 INTRODUCTION

Conestoga-Rovers & Associates, Inc. (CRA) prepared this *Additional Site Investigation Report* on behalf of Chevron Environmental Management Company (CEMC) to document results of the subsurface investigation at Chevron Service Station 96817, located at 1705 Contra Costa Boulevard, Pleasant Hill, California (site). CEMC is managing the environmental aspects of this project on behalf of Chevron U.S.A. Inc. (Chevron). On December 18, 2013, CRA submitted the *Work Plan for Additional Site Investigation* (Work Plan), to the San Francisco Bay Regional Water Quality Control Board (RWQCB). The RWQCB did not submit a formal approval of the Work Plan, although it submitted comments via email to which CRA responded (Appendix A). CRA implemented the Phase I soil borings proposed in the Work Plan in June 2014. Only the onsite soil borings proposed in the Work Plan were completed; offsite soil borings at 1725 Contra Costa Boulevard are pending an access agreement between the property owner and CEMC. On July 2, 2014, the RWQCB issued a *Transmittal of Staff Report and Tentative Orders-Site Cleanup Requirements for 1643 Contra Costa Boulevard and 1705 Contra Costa Boulevard, Pleasant Hill, Contra Costa County* (Tentative Order) that requested comments by August 4, 2014, in advance of a September 10, 2014 RWQCB meeting. CEMC has cancelled Phase 2 of the Work Plan that included onsite and offsite groundwater monitoring wells pending resolution of the Tentative Order. CEMC and CRA request a meeting with the RWQCB prior to the September 10, 2014, RWQCB meeting to discuss the June 2014 investigation data. Presented below are the site description and background, subsurface investigation procedures and results, and our conclusions.

2.0 SITE DESCRIPTION

2.1 SITE BACKGROUND

The site is located at the southwest corner of the intersection of Contra Costa Boulevard and Doris Drive in Pleasant Hill, California (Figures 1 and 2). The site previously consisted of two parcels designated "Northern parcel" and "Southern parcel". The service station occupied the Northern parcel. Until 1986 a dry cleaning business occupied the Southern parcel. Local topography is generally flat at an elevation approximately 50 feet above mean sea level.

Chevron's records indicate that Standard Oil Company of California and/or Chevron leased the Northern parcel from 1950 to 1986.

In 1971, an existing service station building and related equipment located on the Northern parcel were removed, and a new service station and automotive repair facility were constructed. Chevron records from as early as 1971 indicate that the Chevron-branded service station and automotive repair facility was operated by an independent dealer. It appears that the service station property expanded in size as part of the 1971 renovation, with the service station parcel boundary moved to the south, as indicated by historical site maps in Chevron's files dated September 9, 1969, May 15, 1970, and July 24, 1987. The historical maps indicate the former property line between the two parcels was located approximately along the south side of the current station building running east-west. During the 1971 service station renovation, the service station parcel (the Northern parcel) was expanded to include what formerly had been the "drive through" for the dry cleaning business. The dry cleaning business' drive through was moved to the southern side of the Southern parcel. The historical maps also show the various station configurations (3) and are presented as Appendix B.

CRA has updated the site plan and shows a revised location of the former used-oil UST and former dry cleaner building, as they are understood to have existed beginning in 1971 (Figure 2). The locations of the former dry cleaner and former used-oil UST are approximate, based on the historical maps. CRA is in the process of having the 2011 borings, 2014 borings, and other available existing site features surveyed.

The station configurations presented on the 1969 and 1970 historical maps indicate that the used-oil UST and a portion of the automotive repair facility was added within what had been the drive-through area of the dry cleaning business, which was located north of the former dry cleaner building. With this change to the site plan, CPT-13 and VP-1 plot south of the former used-oil UST within the drive-through area of the former dry cleaner. The fill encountered in these borings may be associated with the demolition of the drive-through area and not associated with the former used-oil UST. Based on the historical maps, the former EA-2 well would plot within the former used-oil UST excavation. EA-2 has previously been depicted just south of the former used-oil UST. EA Engineering, Science and Technology Inc.'s (EA) February 3, 1989, report states that the location of well EA-2 was "installed near SVCA point V10 (the location of the waste oil tanks)".

From at least the mid 1950s until 1986 the dry cleaning business operated on the Southern parcel based on a 2010 search of Environmental Data Resources, Inc. (EDR), City Directory Abstract, and City of Pleasant Hill phone book records obtained by the RWQCB and uploaded to Geotracker on December 17, 2013. These references indicate that the former dry cleaner business operated under the following names "One Hour Martinizing," "Pleasant Hill One Hour Cleaners," and "J's Pleasant Hill Cleaners."

Chevron had no involvement in the ownership or operation of the dry cleaning business.

Chevron purchased the Northern and Southern parcels in 1986. At the time Chevron purchased the Southern parcel, the dry cleaning business had ceased operations. In 1987 and 1988 a new service station and car wash were constructed, and the vacant former dry cleaner building was demolished.

Chevron sold the site (now merged into the single APN 150-103-016) in 2003.

A petroleum hydrocarbon fuel release from the service station on the Northern parcel resulted in an environmental case being opened in 1986, which was managed under oversight by the RWQCB (case 07-0437) and the Contra Costa County Environmental Health Services (CCCEHS) (case 62918). Chevron investigated and remediated petroleum hydrocarbons in soil and groundwater related to service station operations.

On September 13, 2004, Terradex Inc. (Terradex) submitted a closure request seeking a low risk groundwater case closure and recommended a site management plan (SMP) for the residual petroleum and chlorinated hydrocarbon plumes. On October 13, 2004, Terradex submitted supplemental information to the RWQCB in support of case closure. On January 14, 2005, the RWQCB approved the closure request (Appendix A) and SMP (Appendix C). Table A below presents the approved groundwater quality alert thresholds presented in the SMP.

TABLE A. SMP ALERT THRESHOLDS

Analytes	*Groundwater Quality Alert Threshold (µg/L)*
TPHg	>200
Benzene	>10
MTBE	>500
PCE	>100
TCE	>100

After the RWQCB closed the site, six of Chevron's seven monitoring wells on the property were destroyed. Chevron's consultants continue to monitor offsite well EA-5 annually as part of the SMP that expires in 2015. Since 2005, sampling results from well EA-5 have never exceeded the SMP "alert threshold" for any of the constituents. A summary of environmental investigation and remediation is presented as Appendix D.

2.2 SITE GEOLOGY AND HYDROGEOLOGY

The site is in the Ygnacio Valley Basin of the San Francisco Bay Hydrologic Region.[1] The site vicinity is underlain by Quaternary alluvial deposits at depths up to 700 feet. Groundwater in this region has been designated for potential beneficial agricultural, municipal, and industrial uses.[2] The site vicinity is underlain by silt and clay with discontinuous gravel or sand lenses to the total depth investigated of 74 feet below grade (fbg). Current investigation boring logs are presented in Appendix E and F.

Based on the former Chevron well network, the depth to groundwater has ranged from approximately 5 to 20 fbg with an average depth of approximately 9.5 fbg and was calculated to flow consistently toward the northeast. The lowest groundwater level measurements coincide during the operation of a groundwater extraction system that operated between August 1991 and July 1996. Historical monitoring well groundwater data is presented in Appendix B.

2.3 RELEASE SOURCES

In 1986 during the fuel UST replacement, 170,000 micrograms per liter (µg/L) total petroleum hydrocarbons (TPH) and 3,100 µg/L benzene were detected in a groundwater sample collected from the fuel UST pit located in the northeastern corner of the site. In 1986, following the fuel UST replacement, light non-aqueous phase liquid (LNAPL) was observed in fuel UST observation well MW-A. In 1986, a used-oil UST was replaced along the southern boundary of the property (Northern parcel), located adjacent to the former dry cleaner that had just ceased operation. On May 15, 1986, according to the Contra Costa County Underground Tank Inspection Program field notes, the tank was torn open during removal, an unspecified number of approximately ¼-inch holes were observed on the top and bottom of the used-oil UST, and the UST contained approximately 20 gallons of sludge. The soil sample that was collected at the base of the used-oil UST excavation at 8 fbg contained 11 milligrams per kilogram (mg/kg) waste oil by EPA Method 3510. Based on de minimis waste oil concentrations detected in soil beneath the used-oil tank, it appears that the holes noted in the tank were either not fully penetrating or were otherwise sealed such that they did

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1 *California's Groundwater, Bulletin 118* prepared by the California Department of Water Resources (Updated 2003).

2 Table 2-2 *Existing and Potential Beneficial Uses in Groundwater in Identified Basins; Water Quality Control Plan (Basin Plan) for the San Francisco Bay Basin*; California Regional Water Quality Control Board - San Francisco Bay Region, January 18, 2007.

not allow a significant release. An environmental case was opened by the RWQCB based on these data.

In 1988, the replacement used-oil UST that was installed in 1986 was removed from the site for station reconstruction. The used-oil UST was intact, with no signs of leakage (Appendix G). Soil sample #1 collected at 10 fbg from the base of the UST excavation contained 50 mg/kg total oil and grease (TOG), 0.200 mg/kg tetrachloroethylene (PCE), and 0.035 mg/kg trichloroethylene (TCE). Historical data is presented in Appendix B. Arcadis U.S., Inc. (Arcadis) concluded the following in their Memo to the RWQCB dated October 30, 2013 on page 5:

> Based on the magnitude of the 1988 and 2011 concentration data, and the fact that the soil samples were collected from the approximate zone of fluctuation of the water table (approximately 10 feet bgs), the source of these VOCs is most likely sorption from PCE- and TCE-affected groundwater migrating from the upgradient dry cleaner source.

Arcadis also reviewed isotope analysis completed by Zymax Forensics[3] on 2011 grab-groundwater samples and concluded that the source of TCE detected in groundwater beneath the site is the daughter product of PCE (Arcadis Memo, page 6).

Based on the facts that LNAPL was detected in the fuel UST excavation in 1986 and the highest petroleum hydrocarbon detection in the former used-oil UST excavation was 50 mg/kg TOG, the primary source area for petroleum hydrocarbons at the site was the former fuel USTs located in the northeastern corner of the site. The release from the usedoil UST was de minimis.

As is discussed below, the former dry cleaner on the Southern parcel, and possible upgradient sources, are the likely source(s) of the chlorinated solvents at the site. In CRA's April 7, 2014, Technical Report (page 8 and 9), the following upgradient historical dry cleaner operations were referenced:

- 1942 Linda Drive
- 1745 Contra Costa Boulevard

[3] Zymax Forensics presented the results of the isotope analysis in the *Forensic Report for Groundwater Samples Collected in Pleasant Hill, California* dated October 9, 2013.

2.4 SOURCE REMOVAL ACTIVITIES

In 1986, two 10,000-gallon and one 5,000-gallon gasoline USTs and one 1,000-gallon used-oil UST were replaced with new USTs. In 1988, the 1,000-gallon used-oil UST was removed from the site for station redevelopment. A groundwater extraction system was operated from August 1991 to July 1996. Approximately 1,900,000 gallons of groundwater were extracted from wells EA-2 and MW-D, removing an estimated 11.5 pounds of dissolved TPHg and 41.1 pounds of dissolved chlorinated hydrocarbons. In 1995, product piping, trench liners, and pea gravel were removed from the site as part of site renovations. On January 14, 2005, the RWQCB approved site closure.

3.0 SUBSURFACE INVESTIGATION

The current investigation objectives were to delineate the vertical and horizontal extent of specific chlorinated hydrocarbons in soil onsite. To meet these objectives, CRA advanced 14 soil boring locations onsite. Borings CPT-21 and CPT-23 through CPT-33 were initially advanced using Cone Penetrometer Testing (CPT) and Membrane Interface Probe (MIP) equipment. A second boring was advanced using the CPT or direct push technology (DPT) to collect soil samples at these 12 locations. Soil borings SB-22 (formerly proposed CPT-22) and SB-34 (an added boring location) were advanced on the west side of the carwash. The boring locations are presented on Figure 2. A copy of the CPT Report is presented as Appendix E, boring logs are presented as Appendix F and the MIP report is presented as Appendix H. A summary of the work completed is presented in the following sections.

Permits and Access Agreements

CRA obtained Contra Costa County Environmental Health Division (CCCEHD) Drilling Permit Number 14B-1180 for advancing the 14 soil borings onsite. CEMC obtained access agreements with MB Enterprises, Inc. to work on the site. A copy of the permit is presented in Appendix I.

Drilling Company

Gregg Drilling & Testing (Gregg) of Martinez, California (C57 License No. 485165) was contracted to advance the CPT and DPT soil borings. Vironex, Inc. of Concord, California was subcontracted by Gregg to provide the MIP equipment that was used in conjunction with the CPT equipment.

CRA Personnel
CRA personnel Celina Hernandez, Alyssa Beerling, Belew Yifru, Oliver Yan, and Charley Austin conducted all fieldwork under the supervision of California Professional Geologist Brandon S. Wilken, PG 7564.

Geophysical Survey
Prior to drilling, CRA contacted Underground Service Alert to mark underground utilities at the proposed boring locations. On May 21 and 22, 2014, CRA contracted a private licensed utility locator, NORCAL Geophysical of Cotati, California to locate underground utilities beneath the site using a metal detector, tracer cable, and ground penetrating radar equipment. Prior to drilling, the boring locations were cleared to 8 fbg using hand auger equipment to ensure no underground utilities were located in the area of the proposed borings. NORCAL's report, that includes a map, is presented as Appendix J. Proposed locations were moved slightly to avoid utility conflicts (NORCAL's map in Appendix J) and the final locations are presented on Figure 2.

Waste Disposal
Soil cuttings, equipment rinsate, and concrete cores generated during soil boring advancement were stored in sealed and labeled Department of Transportation approved 55-gallon drums. The waste drums generated during the investigation were transported to a State approved landfill on July 1, 2014.

3.1 SOIL BORINGS

The location of onsite borings CPT-21, CPT-23 through CPT-33, SB-22 (formerly proposed CPT-22) and SB-34 are shown on Figure 2. Soil analytical data is presented in Table 1. A summary of the soil boring activities is presented below.

Soil Boring Drilling Dates
The borings were completed between June 2 and June 18, 2014.

Drilling Method
The borings were completed in phases. Concrete was cored prior to hand clearing and drilling. The next phase included hand clearing the CPT/MIP boring locations to 8 fbg using a hand auger and advancing the CPT/MIP boring to collect the CPT and MIP data. The next phase included hand clearing a second boring to 8 fbg using a hand auger and advancing the CPT or DPT probe to collect soil samples immediately adjacent to the CPT/MIP borings. The total depth of the borings were based on the MIP data, where collected. Depths of the CPT/MIP borings ranged from approximately 53 to

74 fbg. Borings to collect soil samples were advanced to approximately 50 to 74 fbg. The track-mounted limited access DPT probe with dual tube sampling equipment was used along the carwash driveway where the CPT rig could not access borings SB-22 and SB-34 locations. CPT-23 was advanced using the CPT after removing the height restriction sign at the entrance to the carwash.

Borings were backfilled to grade with Portland Type I/II cement under the supervision of a CCCEHD inspector. An explanation of CPT equipment and operating procedures are presented in Gregg's CPT report in Appendix E and an explanation of the MIP equipment and operating procedures are presented in Vironex's MIP report in Appendix H. CRA's *Standard Field Procedures for Cone Penetrometer Testing Soil Boring and Sampling* is presented as Appendix K.

Soil Sampling

Soil samples were collected based on MIP data at approximately 5-foot intervals to the bottom of the boring. MIP data is discussed in Section 3.2 below. An undisturbed sample was collected at 5 fbg at each boring location during hand clearing to 8 fbg using slide hammer equipment lined with 6-inch brass tubes. Some sample depths had no recovery and no sample was collected. Soil samples collected using CPT used direct push samplers lined with stainless steel sample tubes and DPT used acetate lined direct push samplers. Soil was logged according to the ASTM D2488-06 modified Unified Soil Classification System (USCS) and screened using a photo-ionization detector (PID) equipped with an 11.8 electron volt (eV) lamp capable of detecting PCE and TCE. Select soil samples chosen for analysis were trimmed of excess soil and capped with Teflon® tape and plastic end caps. All samples were properly sealed, labeled, preserved on ice, logged on chain-of-custody forms, and submitted to Eurofins/Lancaster Laboratories (Eurofins) of Lancaster, Pennsylvania for analysis.

Chemical Analysis

Selected soil samples were analyzed for the following chemicals of concern (COCs) by EPA Method 8260B:

- PCE
- TCE
- cis-1,2-dichloroethylene (C-1,2-DCE)
- trans-,1,2-dichloroethlene (T-1,2-DCE)
- vinyl chloride (VC)

The soil laboratory analytical reports are presented in Appendix L.

3.2 CHLORINATED HYDROCARBON DISTRIBUTION IN SOIL

MIP data was collected from all borings, except boring SB-22 and SB-34 (which were inaccessible to the CPT/MIP truck), to vertically profile potential chlorinated volatile organic compounds (CVOCs) areas of concern using an electron capture detector (ECD). The ECD vertical profiles were used to determine soil sample collection depths (Appendix E). The upper 8 fbg was hand augered, therefore, the soil was disturbed and the CPT and MIP data are unrepresentative. ECD profiles include:

- CPT-23 observed high peaks at approximately 13-21, 32-51, and 66.5 fbg.
- CPT-24 observed medium to high peaks at approximately 13-22 fbg, 30-40, and 50 fbg.
- CPT-25 observed high peaks at approximately 13-25 fbg.
- CPT-26 observed small peaks at approximately 11-16 fbg.
- CPT-31 observed a high peak from approximately 11.5-13 fbg
- CPT-32 observed high peaks from approximately 12-26 fbg
- CPT-33 observed high peaks between approximately 30-47 fbg, which coincided with the deeper peaks observed in borings CPT-23 and CPT-24

Responses in other borings were de minimis.

Confirmation soil samples were collected at, above, and below the high peak range(s) observed on the ECD profile. The results of the MIP data, together with the recent confirmation soil sample data, confirm a significant CVOCs release near the southwest corner of the former dry cleaner building based on CPT-23 and CPT-14 data where PCE and PCE daughter products have penetrated the deepest. This potential release location is approximately 46 feet upgradient of the former used-oil USTs. There does not appear to be a significant release at or near the former used-oil UST as indicated by the ECD signature and lower concentrations of CVOCs in soil. CVOCs soil concentrations detected in, at, or near the former used-oil UST are lower than those detected at CPT-23 and CPT-14 and are indicative of an upgradient source from the former dry cleaner with diminishing concentrations downgradient of the release location. Table 1 presents the soil analytical data from the recent investigation and the 2011 soil data table is presented in Appendix B. A discussion of the confirmation soil sample data is presented below.

During the June 2014 onsite soil investigation, the highest PCE concentrations were detected at boring CPT-23 (720 mg/kg at 33 fbg and 27 mg/kg at 5 fbg), which coincides with the highest peaks observed on the ECD profile and correlates to the high concentrations observed in the same area in 2011 at boring CPT-14 (19 mg/kg at 10 fbg and 20 mg/kg at 34.5 fbg) (Appendix B). Borings CPT-14 and CPT-23 are located within

the former dry cleaner building footprint, upgradient and 46 feet southwest of the former used-oil USTs.

During the June 2014 onsite soil investigation, the highest TCE concentration detected in shallow soil beneath the former dry cleaner was in boring CPT-23 (1.6 mg/kg at 5 fbg). The highest TCE concentrations detected near the former used-oil tank during this investigation were 1.2 mg/kg at 11 fbg in CPT-32 (downgradient) and 0.96 mg/kg at 5 and 10 fbg in CPT-25 (upgradient).

During the June 2014 onsite soil investigation C-1,2-DCE was detected in most borings, with the highest concentrations detected in shallow soil beneath the former dry cleaner in borings CPT-25 (2.7 mg/kg at 5 fbg) and CPT-23 (1.9 mg/kg at 5 fbg). The highest C-1,2-DCE concentrations detected near the former used-oil tank during this investigation were 0.53 mg/kg at 11 fbg in CPT-32 and 0.38 mg/kg at 10 fbg in CPT-31.

Only PCE, TCE, and C-1,2-DCE were detected at concentrations above the RWQCB environmental screening levels for commercial land use where groundwater is a potential drinking water resource (ESLs) as presented in the RWQCB's 2013 *User's Guide: Derivation and Application of Environmental Screening Levels*. Table B below presents the PCE, TCE, and C-1,2-DCE concentrations above the ESLs and the location relative to the approximate location of the former used-oil USTs and dry cleaner building.

TABLE B. PCE AND TCE CONCENTRATIONS ABOVE ESLS					
Boring ID	***Location (distance in feet is approximate)***	***Depth (fbg)***	***PCE***	***TCE***	***C-1,2-DCE***
			ESL (mg/kg) 0.70	***ESL (mg/kg) 0.46***	***ESL (mg/kg) 0.19***
CPT-23	Former dry cleaner Source Area; west side of former dry cleaners; adjacent to CPT-14	5 10 33 38 48 53 73.5	27 13 720 2.4 0.79 1.8 1.2	1.6 Not exceeded 0.71 Not exceeded Not exceeded Not exceeded Not exceeded	1.9 0.35 Not exceeded Not exceeded Not exceeded Not exceeded Not exceeded
CPT-24	West side of former dry cleaner; 20 feet northeast of CPT-23	15 35	5.7 1.0	Not exceeded Not exceeded	Not exceeded Not exceeded
CPT-25	West side of former dry cleaner; 26 feet northeast of CPT-23	5 10 13	Not exceeded 3.1 3.9	0.96 0.96 Not exceeded	2.7 0.44 Not exceeded
CPT-26	Near southeast corner of former used-oil UST; 43 feet northeast of CPT-23	5 10	Not exceeded Not exceeded	Not exceeded Not exceeded	1.4 0.33
CPT-31	Near northeast corner of former used-oil UST; 50 feet northeast of CPT-23	10 12 14	Not exceeded 1.8 0.90	0.66 Not exceeded Not exceeded	0.38 Not exceeded Not exceeded
CPT-32	Near northwest corner of former used-oil UST; 40 feet northeast of CPT-23	11 14 16 21	2.2 4.4 3.7 1.3	1.2 Not exceeded Not exceeded Not exceeded	0.53 Not exceeded Not exceeded Not exceeded
CPT-33	North of former dry cleaners; 35 feet north of CPT-23	35 40	0.78 3.1	Not exceeded Not exceeded	Not exceeded Not exceeded

COCs other than PCE, TCE, C-1,2-DCE were detected but did not exceed ESLs. T-1,2-DCE was detected in borings closest to the dry cleaner, with the highest concentrations detected in shallow soil beneath the former dry cleaner in borings CPT-26 (0.28 mg/kg at 5 fbg) and CPT-25 (0.15 mg/kg at 5 fbg). The highest T-1,2-DCE concentrations detected near the former used- oil tank were 0.011 mg/kg at 10 fbg in CPT-31 and 0.01 mg/kg at 11 fbg in CPT-32.

VC concentrations were consistently near or below detection limits in all borings. VC concentration at CPT-23 did not exceed the laboratory reporting limit; however, the reporting limit exceeds the ESL of 0.085 mg/kg.

PCE was commonly associated with historic dry cleaning[4] operations and degrades to the following daughter products in the reductive dechlorination process[5]: PCE to TCE, TCE to C-1,2-DCE and T-1,2-DCE and –DCE to VC.

The TCE, C-1,2-DCE, T-1,2-DCE and VC concentrations are orders of magnitude below the maximum PCE concentrations detected and their relative concentrations and distribution throughout the site are consistent with reductive dechlorination of PCE as concluded in CRA's March 2, 2012 *Additional Site Investigation Report and Site Conceptual Model*. The maximum concentrations detected in 2014 of PCE and the daughter products are presented in Table C below:

TABLE C. 2014 MAXIMUM SOIL CONCENTRATIONS				
COC	***Boring ID***	***Location relative to CPT-23***	***Depth***	***Concentration***
		(feet)	***(fbg)***	***(mg/kg)***
PCE	CPT-23	Source area	5/33	27/720
TCE	CPT-23	Source area	5	1.6
C-1,2-DCE	CPT-25	26 feet northeast	5	2.7
T-1,2-DCE	CPT-26	43 feet northeast	5	0.28
VC	CPT-25	26 feet northeast	5	0.026

Upgradient of the former dry cleaner source area, borings SB-22 (formerly proposed CPT-22) and SB-34 were advanced using a limited access DPT probe (no CPT or MIP data could be collected). The maximum concentrations detected are listed below and did not exceed the ESL:

- 0.007 mg/kg PCE at SB-34 at 9.5 fbg
- 0.005 mg/kg TCE at SB-34 at 5 fbg
- 0.005 mg/kg C-1,2-DCE at SB-22/CPT-22 at 5 fbg

4 Agency for Toxic Substances and Disease Registry (ATSDR), *Toxicological Profile for Tetrachloroethylene (Update)*. U.S. Public Health Service, U.S. Department of Health and Human Services, Atlanta, GA. 1997.

5 http://www.clu-in.org/techfocus/default.focus/sec/Bioremediation/cat/Anaerobic_Bioremediation_(Direct)/, 7/21/14.

The concentrations of CVOCs in upgradient samples are significantly lower than concentrations detected at the former dry cleaner source area.

The extent of PCE and related compounds in soil is delineated to the east by CPT-21, CPT-28, and CPT-29; and to the south by low concentrations in SB-22 and SB-34. The extent west of CPT-23 and CPT-14 (along the east side of Linda Avenue) is not delineated laterally or vertically. The vertical extent is not delineated at the former dry cleaner source area as indicated by 1.2 mg/kg PCE detected in CPT-23 at 73.5 fbg.

4.0 SUMMARY AND CONCLUSIONS

- The site plan has been updated to more accurately estimate the location of the former dry cleaner building and the former used-oil UST as depicted in historical site maps dated March 9, 1969, May 15, 1970, and July 14, 1987 (Appendix B). The locations presented on Figure 2 are approximate and a land survey is scheduled to survey 2011 and 2014 borings, existing site features (building corners, curb lines, well EA-5, destroyed wells EA-2, MW-C and MW-D).
- The 2014 onsite soil investigation confirms that the primary and likely sole CVOCs source area is located at the former dry cleaner building, specifically at the west side.
- Based on information presented in this report, the source and extent of CVOC impacts are consistent with a shallow PCE release at the former dry cleaner that penetrated vertically and spread horizontally across the site.
- There is no definitive evidence of a significant CVOCs release associated with the service station operations that would warrant any further assessment or remediation. The RWQCB previously agreed with this as indicated by approval of the 2005 site closure.
- As indicated by data collected in December 2011, petroleum hydrocarbons are limited in extent and do not warrant any further assessment or remediation by Chevron. The RWQCB previously agreed with this as indicated by approval of the 2005 site closure.

FIGURES

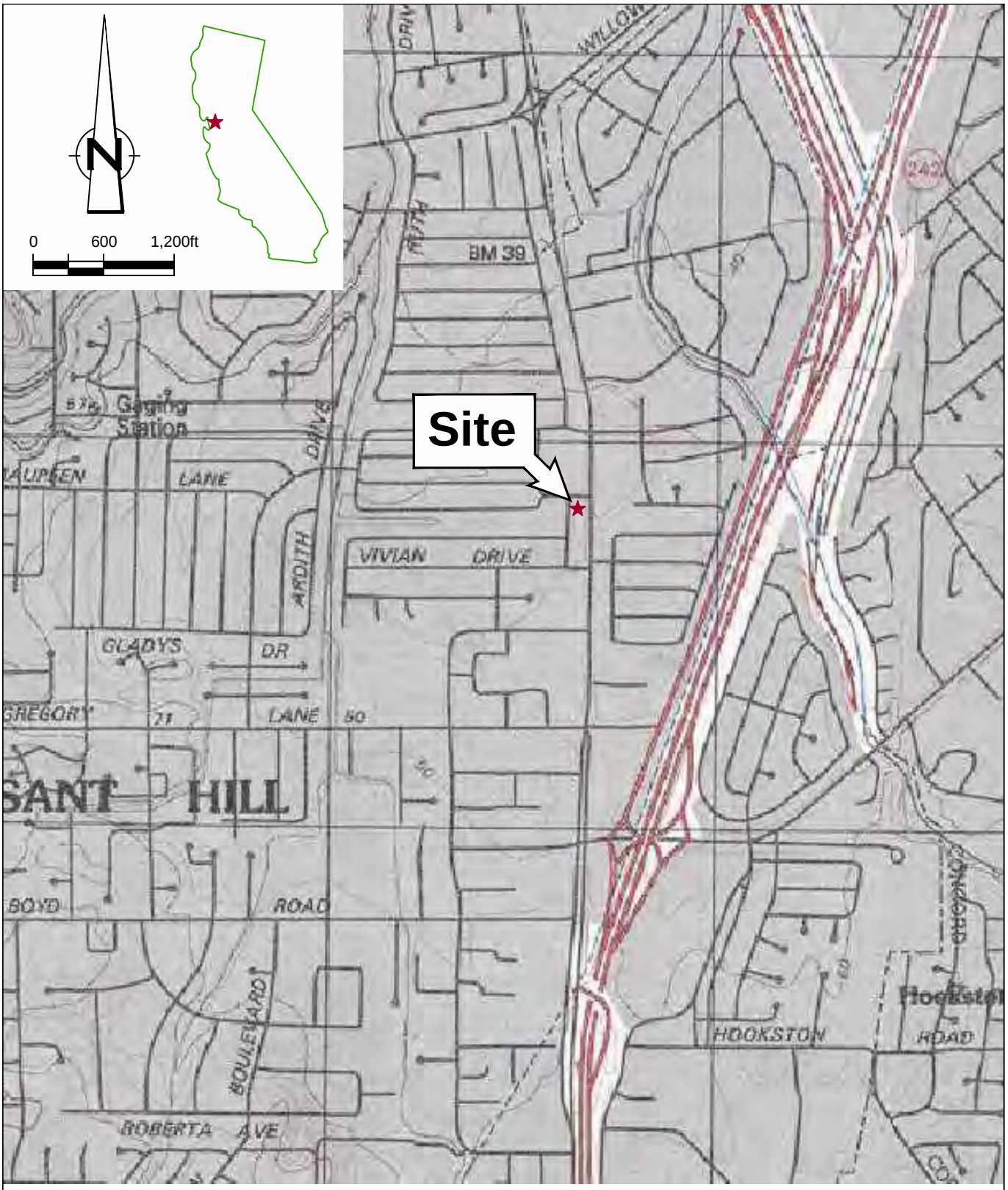

Figure 1

VICINITY MAP
CHEVRON SERVICE STATION 96817
1705 CONTRA COSTA BOULEVARD
Pleasant Hill, California

311741-2014(011)GN-EM001 JUL 21/2014

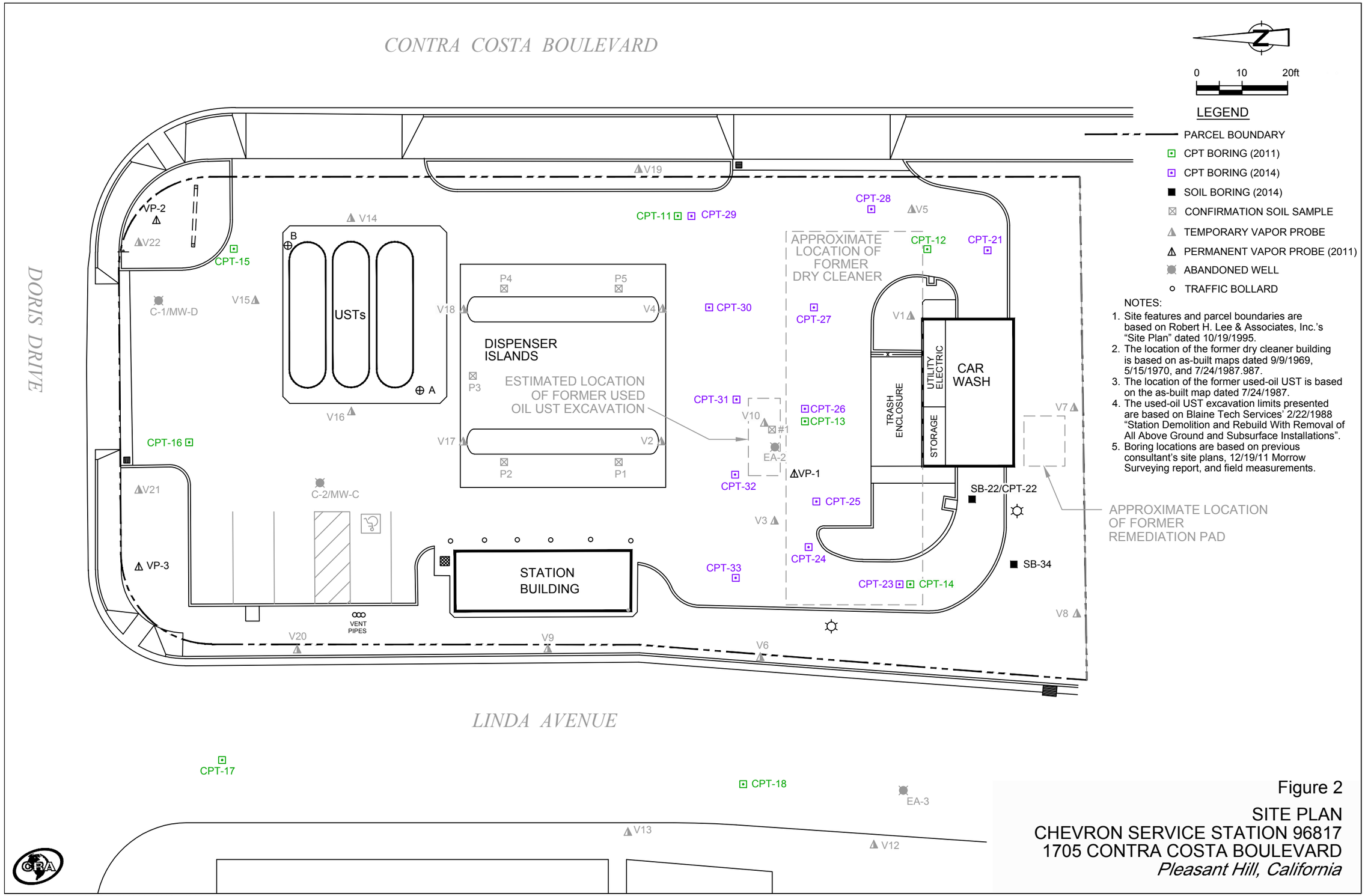

Figure 2

SITE PLAN
CHEVRON SERVICE STATION 96817
1705 CONTRA COSTA BOULEVARD
Pleasant Hill, California

311741-2014(011)GN-EM002 AUG 4/2014

TABLE

TABLE 1
SOIL (GRAB SAMPLES) ANALYTICAL RESULTS
CHEVRON SERVICE STATION 9-6817
1705 CONTRA COSTA BOULEVARD, PLEASANT HILL, CALIFORNIA

			ADDITIONAL VOCS				
Location	Date	Depth	*C-1,2-DCE*	*PCE*	*T-1,2-DCE*	*TCE*	*VC*
	Units	ft	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*
CPT-21	**06/12/2014**	**5**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**
CPT-21	**06/16/2014**	**10.5**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**
CPT-21	**06/16/2014**	**15**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**
CPT-21	**06/16/2014**	**19.5**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**
CPT-21	**06/16/2014**	**23.5**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**
CPT-21	**06/16/2014**	**27.5**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**
CPT-21	**06/16/2014**	**29**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**
CPT-21	**06/16/2014**	**35.5**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**
CPT-21	**06/16/2014**	**36**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**
CPT-21	**06/16/2014**	**40.5**	**<0.0009**	**<0.0009**	**<0.0009**	**<0.0009**	**<0.0009**
CPT-21	**06/16/2014**	**43.5**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**
CPT-21	**06/16/2014**	**46.5**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**
CPT-21	**06/16/2014**	**51.5**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**
CPT-23	**06/02/2014**	**5**	**1.9**	**27**	**<0.048**	**1.6**	**<0.048**
CPT-23	**06/03/2014**	**10**	**0.35**	**13**	**<0.052**	**0.31**	**<0.052**
CPT-23	**06/03/2014**	**13**	**0.048**	**0.53**	**<0.001**	**0.085**	**<0.001**
CPT-23	**06/03/2014**	**18**	**0.002 J**	**0.062**	**<0.0009**	**0.003 J**	**<0.0009**
CPT-23	**06/03/2014**	**23**	**0.003 J**	**0.056**	**<0.0009**	**0.002 J**	**<0.0009**
CPT-23	**06/03/2014**	**28**	**0.002 J**	**0.15**	**<0.001**	**0.004 J**	**<0.001**
CPT-23	**06/03/2014**	**33**	**<0.20**	**720**	**<0.20**	**0.71 J**	**<0.20**
CPT-23	**06/03/2014**	**38**	**0.007**	**2.4**	**<0.0009**	**0.14**	**<0.0009**
CPT-23	**06/03/2014**	**43**	**<0.001**	**0.071**	**<0.001**	**<0.001**	**<0.001**

TABLE 1
SOIL (GRAB SAMPLES) ANALYTICAL RESULTS
CHEVRON SERVICE STATION 9-6817
1705 CONTRA COSTA BOULEVARD, PLEASANT HILL, CALIFORNIA

			ADDITIONAL VOCS				
Location	Date	Depth	*C-1,2-DCE*	*PCE*	*T-1,2-DCE*	*TCE*	*VC*
	Units	ft	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*
CPT-23	**06/03/2014**	**48**	**0.005**	**0.79**	**<0.001**	**0.014**	**<0.001**
CPT-23	**06/03/2014**	**53**	**0.012**	**1.8**	**<0.0009**	**0.018**	**<0.0009**
CPT-23	**06/03/2014**	**58**	**<0.001**	**0.10**	**<0.001**	**<0.001**	**<0.001**
CPT-23	**06/03/2014**	**60**	**<0.0009**	**0.49**	**<0.0009**	**0.001 J**	**<0.0009**
CPT-23	**06/03/2014**	**63**	**<0.0009**	**0.035**	**<0.0009**	**<0.0009**	**<0.0009**
CPT-23	**06/03/2014**	**66**	**0.001 J**	**0.15**	**<0.001**	**0.002 J**	**<0.001**
CPT-23	**06/03/2014**	**69**	**<0.001**	**0.17**	**<0.001**	**0.002 J**	**<0.001**
CPT-23	**06/03/2014**	**73.5**	**0.006**	**1.2**	**<0.001**	**0.007**	**<0.001**
CPT-24	**06/05/2014**	**5**	**0.066**	**0.086**	**0.002 J**	**0.16**	**<0.001**
CPT-24	**06/09/2014**	**10**	**0.040**	**0.48**	**<0.001**	**0.077**	**<0.001**
CPT-24	**06/09/2014**	**15**	**0.10**	**5.7**	**0.001 J**	**0.17**	**<0.001**
CPT-24	**06/09/2014**	**21**	**0.002 J**	**0.11**	**<0.001**	**0.004 J**	**<0.001**
CPT-24	**06/09/2014**	**25**	**<0.001**	**0.032**	**<0.001**	**<0.001**	**<0.001**
CPT-24	**06/09/2014**	**30**	**<0.001**	**0.11**	**<0.001**	**0.001 J**	**<0.001**
CPT-24	**06/09/2014**	**33**	**<0.001**	**0.40**	**<0.001**	**0.007**	**<0.001**
CPT-24	**06/09/2014**	**35**	**<0.048**	**1.0**	**<0.048**	**<0.048**	**<0.048**
CPT-24	**06/09/2014**	**40**	**<0.001**	**0.007**	**<0.001**	**<0.001**	**<0.001**
CPT-24	**06/09/2014**	**45**	**<0.001**	**0.008**	**<0.001**	**<0.001**	**<0.001**
CPT-24	**06/09/2014**	**55**	**<0.001**	**0.016**	**<0.001**	**<0.001**	**<0.001**
CPT-24	**06/09/2014**	**60**	**<0.001**	**0.01**	**<0.001**	**<0.001**	**<0.001**
CPT-25	**06/10/2014**	**5**	**2.7**	**0.003 J**	**0.15**	**0.96**	**0.026**
CPT-25	**06/10/2014**	**10**	**0.44**	**3.1**	**0.032**	**0.96**	**0.002 J**

TABLE 1
SOIL (GRAB SAMPLES) ANALYTICAL RESULTS
CHEVRON SERVICE STATION 9-6817
1705 CONTRA COSTA BOULEVARD, PLEASANT HILL, CALIFORNIA

			ADDITIONAL VOCS				
Location	Date	Depth	*C-1,2-DCE*	*PCE*	*T-1,2-DCE*	*TCE*	*VC*
	Units	ft	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*
CPT-25	**06/10/2014**	**13**	**0.028**	**3.9**	**0.001 J**	**0.10**	**<0.001**
CPT-25	**06/10/2014**	**18**	**0.006**	**0.36**	**<0.001**	**0.015**	**<0.001**
CPT-25	**06/10/2014**	**23**	**<0.001**	**0.030**	**<0.001**	**0.003 J**	**<0.001**
CPT-25	**06/10/2014**	**28**	**<0.001**	**0.006**	**<0.001**	**0.002 J**	**<0.001**
CPT-25	**06/10/2014**	**33**	**<0.001**	**0.022**	**<0.001**	**0.003 J**	**<0.001**
CPT-25	**06/10/2014**	**38**	**<0.001**	**0.005**	**<0.001**	**0.002 J**	**<0.001**
CPT-25	**06/10/2014**	**43**	**<0.0009**	**<0.0009**	**<0.0009**	**<0.0009**	**<0.0009**
CPT-25	**06/10/2014**	**48**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**
CPT-26	**06/11/2014**	**5**	**1.4**	**0.003 J**	**0.28**	**0.003 J**	**0.001 J**
CPT-26	**06/11/2014**	**10**	**0.33**	**0.25**	**0.026**	**0.26**	**<0.001**
CPT-26	**06/11/2014**	**12**	**0.092**	**0.10**	**0.005**	**0.076**	**<0.001**
CPT-26	**06/11/2014**	**15**	**<0.001**	**0.005**	**<0.001**	**0.002 J**	**<0.001**
CPT-26	**06/11/2014**	**20**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**
CPT-26	**06/11/2014**	**25**	**0.004 J**	**0.004 J**	**<0.001**	**0.004 J**	**<0.001**
CPT-26	**06/11/2014**	**30**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**
CPT-26	**06/11/2014**	**35**	**0.004 J**	**0.010**	**<0.001**	**0.008**	**<0.001**
CPT-26	**06/11/2014**	**40**	**0.003 J**	**0.001 J**	**<0.001**	**0.002 J**	**<0.001**
CPT-26	**06/11/2014**	**45**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**
CPT-26	**06/11/2014**	**50**	**0.079**	**0.026**	**0.005**	**0.042**	**<0.001**
CPT-27	**06/11/2014**	**5**	**0.003 J**	**<0.001**	**<0.001**	**<0.001**	**<0.001**
CPT-27	**06/12/2014**	**10**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**
CPT-27	**06/12/2014**	**15**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**

TABLE 1
SOIL (GRAB SAMPLES) ANALYTICAL RESULTS
CHEVRON SERVICE STATION 9-6817
1705 CONTRA COSTA BOULEVARD, PLEASANT HILL, CALIFORNIA

			ADDITIONAL VOCS				
Location	Date	Depth	*C-1,2-DCE*	*PCE*	*T-1,2-DCE*	*TCE*	*VC*
	Units	ft	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*
CPT-27	**06/12/2014**	**20**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**
CPT-27	**06/12/2014**	**21**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**
CPT-27	**06/12/2014**	**23**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**
CPT-27	**06/12/2014**	**25**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**
CPT-27	**06/12/2014**	**30**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**
CPT-27	**06/12/2014**	**35**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**
CPT-27	**06/12/2014**	**45**	**<0.0009**	**<0.0009**	**<0.0009**	**<0.0009**	**<0.0009**
CPT-27	**06/12/2014**	**47**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**
CPT-27	**06/12/2014**	**50**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**
CPT-28	**06/12/2014**	**5**	**<0.0009**	**<0.0009**	**<0.0009**	**<0.0009**	**<0.0009**
CPT-28	**06/16/2014**	**10.5**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**
CPT-28	**06/16/2014**	**15.5**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**
CPT-28	**06/16/2014**	**19.5**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**
CPT-28	**06/16/2014**	**23.5**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**
CPT-28	**06/16/2014**	**27.5**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**
CPT-28	**06/16/2014**	**31.5**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**
CPT-28	**06/16/2014**	**35.5**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**
CPT-28	**06/16/2014**	**39.5**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**
CPT-28	**06/16/2014**	**43.5**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**
CPT-28	**06/16/2014**	**47.5**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**
CPT-28	**06/16/2014**	**50.5**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**
CPT-29	**06/12/2014**	**5**	**0.001 J**	**<0.001**	**<0.001**	**<0.001**	**<0.001**

TABLE 1
SOIL (GRAB SAMPLES) ANALYTICAL RESULTS
CHEVRON SERVICE STATION 9-6817
1705 CONTRA COSTA BOULEVARD, PLEASANT HILL, CALIFORNIA

			ADDITIONAL VOCS				
Location	Date	Depth	*C-1,2-DCE*	*PCE*	*T-1,2-DCE*	*TCE*	*VC*
	Units	ft	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*
CPT-29	**06/18/2014**	**9.5**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**
CPT-29	**06/18/2014**	**14.5**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**
CPT-29	**06/18/2014**	**19.5**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**
CPT-29	**06/18/2014**	**24.5**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**
CPT-29	**06/18/2014**	**29.5**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**
CPT-29	**06/18/2014**	**34.5**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**
CPT-29	**06/18/2014**	**39.5**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**
CPT-29	**06/18/2014**	**44.5**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**
CPT-29	**06/18/2014**	**49.5**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**
CPT-30	**06/11/2014**	**5**	**0.095**	**<0.0009**	**0.005**	**<0.0009**	**<0.0009**
CPT-30	**06/13/2014**	**10**	**0.041**	**<0.001**	**0.002 J**	**0.012**	**<0.001**
CPT-30	**06/13/2014**	**15**	**<0.001**	**0.002 J**	**<0.001**	**0.001 J**	**<0.001**
CPT-30	**06/13/2014**	**20**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**
CPT-30	**06/13/2014**	**25**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**
CPT-30	**06/13/2014**	**30**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**
CPT-30	**06/13/2014**	**35**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**
CPT-30	**06/13/2014**	**40**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**
CPT-30	**06/13/2014**	**45**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**
CPT-30	**06/13/2014**	**50**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**
CPT-31	**06/11/2014**	**5**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**0.003 J**
CPT-31	**06/12/2014**	**10**	**0.38**	**0.53**	**0.011**	**0.66**	**0.011**
CPT-31	**06/12/2014**	**12**	**0.044**	**1.8**	**0.001 J**	**0.080**	**<0.001**

TABLE 1
SOIL (GRAB SAMPLES) ANALYTICAL RESULTS
CHEVRON SERVICE STATION 9-6817
1705 CONTRA COSTA BOULEVARD, PLEASANT HILL, CALIFORNIA

			ADDITIONAL VOCS				
Location	Date	Depth	*C-1,2-DCE*	*PCE*	*T-1,2-DCE*	*TCE*	*VC*
	Units	ft	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*
CPT-31	**06/12/2014**	**14**	**0.038**	**0.90**	**0.002 J**	**0.087**	**<0.001**
CPT-31	**06/12/2014**	**16**	**0.041**	**0.45**	**0.002 J**	**0.12**	**0.002 J**
CPT-31	**06/12/2014**	**21**	**0.019**	**0.041**	**<0.001**	**0.037**	**<0.001**
CPT-31	**06/12/2014**	**26**	**<0.001**	**0.004 J**	**<0.001**	**0.001 J**	**<0.001**
CPT-31	**06/12/2014**	**31**	**0.001 J**	**0.003 J**	**<0.001**	**0.003 J**	**<0.001**
CPT-31	**06/12/2014**	**35**	**0.002 J**	**0.006**	**<0.001**	**0.006**	**<0.001**
CPT-31	**06/12/2014**	**45**	**0.003 J**	**0.003 J**	**<0.001**	**0.006**	**<0.001**
CPT-31	**06/12/2014**	**50**	**<0.001**	**<0.001**	**<0.001**	**0.002 J**	**<0.001**
CPT-32	**06/11/2014**	**5**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**0.005**
CPT-32	**06/11/2014**	**11**	**0.53**	**2.2**	**0.01**	**1.2**	**0.005**
CPT-32	**06/11/2014**	**14**	**0.11**	**4.4**	**0.002 J**	**0.28**	**<0.001**
CPT-32	**06/11/2014**	**16**	**0.047**	**3.7**	**<0.001**	**0.11**	**<0.001**
CPT-32	**06/11/2014**	**21**	**0.002 J**	**1.3**	**<0.001**	**0.011**	**<0.001**
CPT-32	**06/11/2014**	**26**	**<0.001**	**0.013**	**<0.001**	**0.002 J**	**<0.001**
CPT-32	**06/11/2014**	**31**	**<0.001**	**0.011**	**<0.001**	**<0.001**	**<0.001**
CPT-32	**06/11/2014**	**36**	**<0.001**	**<0.001**	**<0.001**	**0.005**	**<0.001**
CPT-32	**06/11/2014**	**40**	**0.005**	**0.013**	**<0.001**	**0.011**	**<0.001**
CPT-32	**06/11/2014**	**46**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**
CPT-32	**06/11/2014**	**50**	**0.001 J**	**0.004 J**	**<0.001**	**0.003 J**	**<0.001**
CPT-33	**06/05/2014**	**5**	**<0.001**	**0.009**	**<0.001**	**<0.001**	**<0.001**
CPT-33	**06/10/2014**	**10**	**<0.0009**	**0.055**	**<0.0009**	**<0.0009**	**<0.0009**
CPT-33	**06/10/2014**	**15**	**<0.0009**	**0.059**	**<0.0009**	**0.003 J**	**<0.0009**

TABLE 1
SOIL (GRAB SAMPLES) ANALYTICAL RESULTS
CHEVRON SERVICE STATION 9-6817
1705 CONTRA COSTA BOULEVARD, PLEASANT HILL, CALIFORNIA

			ADDITIONAL VOCS				
Location	Date	Depth	*C-1,2-DCE*	*PCE*	*T-1,2-DCE*	*TCE*	*VC*
	Units	ft	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*
CPT-33	**06/10/2014**	**20.5**	**<0.0009**	**0.001 J**	**<0.0009**	**<0.0009**	**<0.0009**
CPT-33	**06/10/2014**	**25**	**<0.001**	**0.066**	**<0.001**	**0.007**	**<0.001**
CPT-33	**06/10/2014**	**30**	**<0.001**	**0.077**	**<0.001**	**<0.001**	**<0.001**
CPT-33	**06/10/2014**	**35**	**<0.001**	**0.78**	**<0.001**	**0.008**	**<0.001**
CPT-33	**06/10/2014**	**40**	**0.009**	**3.1**	**<0.001**	**0.25**	**<0.001**
CPT-33	**06/10/2014**	**45**	**<0.001**	**0.038**	**<0.001**	**0.002 J**	**<0.001**
CPT-33	**06/10/2014**	**50**	**<0.001**	**0.10 J**	**<0.001**	**0.009**	**<0.001**
CPT-33	**06/10/2014**	**55**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**
SB-22	**06/12/2014**	**5**	**0.005**	**0.002 J**	**<0.001**	**0.002 J**	**<0.001**
SB-22	**06/17/2014**	**9.5**	**<0.001**	**0.005**	**<0.001**	**<0.001**	**<0.001**
SB-22	**06/17/2014**	**14.5**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**
SB-22	**06/17/2014**	**19.5**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**
SB-22	**06/17/2014**	**24.5**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**
SB-22	**06/17/2014**	**29**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**
SB-22	**06/17/2014**	**34.5**	**<0.001**	**0.003 J**	**<0.001**	**0.002 J**	**<0.001**
SB-22	**06/17/2014**	**39.5**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**
SB-22	**06/17/2014**	**44**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**
SB-22	**06/17/2014**	**45**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**
SB-22	**06/17/2014**	**49.5**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**
SB-34	**06/17/2014**	**5**	**<0.001**	**0.003 J**	**<0.001**	**0.005**	**<0.001**
SB-34	**06/17/2014**	**9.5**	**<0.001**	**0.007**	**<0.001**	**<0.001**	**<0.001**
SB-34	**06/17/2014**	**14.5**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**

TABLE 1
SOIL (GRAB SAMPLES) ANALYTICAL RESULTS
CHEVRON SERVICE STATION 9-6817
1705 CONTRA COSTA BOULEVARD, PLEASANT HILL, CALIFORNIA

			ADDITIONAL VOCS				
Location	Date	Depth	*C-1,2-DCE*	*PCE*	*T-1,2-DCE*	*TCE*	*VC*
	Units	ft	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*
SB-34	**06/17/2014**	**19.5**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**
SB-34	**06/17/2014**	**24.5**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**
SB-34	**06/17/2014**	**29.5**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**
SB-34	**06/17/2014**	**34.5**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**
SB-34	**06/17/2014**	**39.5**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**
SB-34	**06/17/2014**	**44.5**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**
SB-34	**06/17/2014**	**49.5**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**

Abbreviations and Notes:

SB-22 is also known as CPT-22

ft = Feet

mg/kg = Milligrams per Kilogram

C-1,2-DCE = cis-1,2-dichloroethylene

PCE = Tetrachloroethene

T-1,2-DCE = trans-1,2-dichloroethylene

TCE = Trichloroethene

VC = Vinyl Chloride

-- = Not available / not applicable

<x = Not detected above laboratory method detection limit

J = Estimated value

APPENDIX A

REGULATORY CORRESPONDENCE

Hernandez, Celina

From: Brown, Kevin@Waterboards [Kevin.Brown@waterboards.ca.gov]
Sent: Friday, May 23, 2014 5:15 PM
To: Hernandez, Celina
Cc: Wilken, Brandon; 'Robert C. Goodman'; Brian A. Waite (bwaite@chevron.com); Project Email Filing
Subject: RE: 07-0437/07S0204; Preliminary Review of Work Plan ~COR-311741~

Follow Up Flag: Follow up
Flag Status: Flagged

Thanks very much for the email and responses. On Figure 2 of CRA's most recent work plan, there are two distinct rectangles (composed of dashed lines) in the area of CPT-13, V10, VP-1, and EA-2. The larger rectangle is designated "ESTIMATED LOCATION OF FORMER USED OIL EXCAVATION." The smaller rectangle, between CPT-13 and EA-2, is not labeled. Will you please identify the smaller rectangle? What does it signify?

Thanks, and have a wonderful and relaxing Memorial Day weekend.

Regards,

Kevin D. Brown, PG, CEG
Engineering Geologist
San Francisco Bay Regional Water Quality Control Board
1515 Clay Street, Suite 1400
Oakland, CA 94612
(510) 622-2358
kebrown@waterboards.ca.gov

From: Hernandez, Celina [mailto:chernandez@craworld.com]
Sent: Monday, May 19, 2014 4:40 PM
To: Brown, Kevin@Waterboards
Cc: Wilken, Brandon; 'Robert C. Goodman'; Brian A. Waite (bwaite@chevron.com); Project Email Filing
Subject: RE: 07-0437/07S0204; Preliminary Review of Work Plan ~COR-311741~

Dear Mr. Brown,
As you requested we are providing a response to your comments to the December 18, 2013, work plan, which you embedded in the text of the document (attached) and transmitted in your email dated April 16, 2014 (below).

We are currently coordinating to implement the work plan. The first phase will include CPT/MIP and DPT borings and is scheduled to begin on June 2 through June 18. The wells are scheduled to be installed beginning July 29 through August 20.

- Page 1, comment 1: The comment is noted.
- Page 1, comment 1: The comment is noted. There is no evidence that the used-oil UST contained chlorinated solvents.
- Page 2, comment 1: The comment is noted, although no support is provided for the claim that a "section of the dry cleaner parcel was annexed to 1705 Contra Costa Boulevard to allow the new development". If the premises leased for the service station was in fact increased in size, then it would be misleading to state that "the new building encroached into the dry cleaner parcel," because the new building would have been constructed on the increased in size service station leasehold.
- Page 2, comment 2: The comment is noted.

- Page 2, comment 3: The comment is noted.
- Page 2, comment 4: The comment is irrelevant and misleading. While the referenced 1996 letter contains the quoted statement, the comment fails to consider subsequent data or to acknowledge that 9 years later, in January 2005, the RWQCB confirmed "completion of a site investigation and a remedial action for the underground storage tank(s) formerly located at the [site]." (January 14, 2005 Case Closure letter from Bruce H. Wolfe to Chevron Environmental Management Company.) The Closure Letter further stated that "no further action related to the underground storage tank(s) release is required." The RWQCB's January 3, 2005, Site Closure Summary identified a 1,000 gallon used oil UST as one of the USTs that was the subject of the closure. The Site Closure Summary found that "petroleum hydrocarbons and [halogenated volatile organic compounds (HVOCs)] are stable, and both the petroleum hydrocarbons and HVOCs appear to be naturally attenuating, though the petroleum hydrocarbons are attenuating more rapidly." There is also no technical basis for the claim that "no efforts were made to clean up the highly contaminated unsaturated/vadose zone." Additional groundwater data collected after 1996 demonstrated a reduction of dissolved petroleum hydrocarbon concentrations. Therefore, sufficient petroleum hydrocarbon mass was removed to allow for hydrocarbon concentrations to attenuate. Additional data collected in 2011 also demonstrated attenuation of petroleum hydrocarbon concentrations. In 2011, no dissolved benzene was detected in any grab-groundwater samples and only two soil detections of benzene were detected in CPT-16, located directly adjacent to the UST pit where the primary release of petroleum hydrocarbons occurred.
- Page 2, comment 5: The comment is noted.
- Page 3, comment 1: The comment is noted, but is not relevant. Although reported concentrations in grab-groundwater samples taken near well EA-5 may be higher than reported concentrations in samples collected from well EA-5, laboratory results for grab groundwater samples from open boreholes can be routinely higher than results from monitoring well samples as discussed in the California LUFT Manual: September 2012, Chapter 15, page. In addition, it is a standard practice to use monitoring well data for a more representative data set. See California LUFT Manual: September 2012, Chapter 15 for page recommended sampling methods and equipment to obtain representative grab-groundwater samples. The alert thresholds set as part of site closure are based on samples collected from a groundwater monitoring well. We note that the work plan proposes installation of groundwater monitoring wells in the location where the referenced grab groundwater data were collected, so that representative data can be collected.
- Page 3, comment 2: The comment consists of the author's unsupported opinion that CRA's conclusion that chlorinated hydrocarbons at the Site originated from dry cleaning operations is "very tenuous" because "limited data was [sic] collected on the dry cleaner parcel". The comment ignores the following analysis from CRA's March 2, 2012 *Additional Site Investigation Report and Site Conceptual Model:*

  > The highest PCE concentrations detected were 19 mg/kg at 10 fbg and 20 mg/kg at 34.5 fbg in boring CPT-14. These two PCE detections are two orders of magnitude greater than any current or historical PCE detection. CPT-14 is located in the southwestern corner of the site in the carwash driveway, which was formerly the Southern parcel where the dry cleaner operated. CPT-14 is located approximately 35 feet southwest (upgradient) from the former used-oil UST… the PCE source area appears to be located either in the southwest corner of the site on the Southern parcel or from an offsite and upgradient source.

  The proposed work plan proposes to collect additional data from the former dry cleaner parcel.

  Page 4, comment 1: The comment asks why the area near CPT-14 is characterized as a source area, and then expresses the author's opinion that the location of a former used oil UST is a "known source area." CPT-14 is described as a "known source area" because it was located within the former dry cleaner building footprint, and the soil concentrations detected at CPT-14 are higher than those detected from the used-oil UST samples. In addition, the grab-groundwater samples from CPT-14 (630 µg/l) had higher PCE concentrations then CPT-13 (7 µg/l) which is located near the former used-oil UST. The statement that the used oil UST is a "known source area" is unsupported and misleading based on data collected on site and upgradient of the used oil UST on the former dry cleaners during the 2011 investigation. The March 2, 2012 *Additional Site Investigation Report and Site Conceptual Model* report states:

"CPT-14 is located in the southwestern corner of the site in the carwash driveway, which was formerly the Southern parcel where the dry cleaner operated. CPT-14 is located approximately 35 feet southwest (upgradient) from the former used-oil UST…the PCE source area appears to be located either in the southwest corner of the site on the Southern parcel or from an offsite and upgradient source."

- Page 4, comment 2: The comment correctly notes that Figure 2 states that there will be 16 CPT borings while the text states that there will be a total of 15 CPT borings. The goal of the work plan is to have 16 CPT borings. However, it is likely that CRA will be unable to advance every boring, especially some of the borings near the carwash due to the difficult access and the number of utilities in the area.
- Page 4, comment 3: The comment is noted.–As explained in the work plan, MIP will be utilized unless results from the first CPT/MIP boring indicate that the technology is not effective for delineation.
- Page 4, comment 4: The objective is not to evaluate mass flux and mass discharge from the site. However the configuration of the wells would allow for a mass flux calculation to be completed.
- Page 5, comment 1: See comment from Page 4, comment 1.
- Page 5, comment 2: Eight feet below grade (fbg) is standard borehole clearance procedure for Chevron Environmental Management Company (CEMC) and CRA. If needed, shallow soil samples above 8 fbg are collected using hand auger (disturbed sample) or slide hammer equipment (undisturbed) based on the location of nearby utilities.
- Page 5, comment 3: A flame ionization detector will be used to screen the soil while drilling, which is more effective for HVOCs due to the low ionization potential of PIDs and the high ionization potential of HVOCs.
- Page 6, comment 1: See comment from Page 4, comment 2.
- Page 6, comment 2: CRA We would like to collect additional data on the former dry cleaning parcel. However, there are physical limitations to gathering these data due to the drilling methodology proposed (CPT), potential deeper depth of HVOCs, tight fine grain soils), layout of the carwash infrastructure, and the vast number of utilities in the area that need to be investigated. The locations proposed are where we currently believe the equipment is accessible, although locations within the dry cleaner source area may be changed depending on actual field conditions.
- Page 6, comment 3: See comment from Page 4, comment 1.
- Page 6, comment 4: CRA does not believe that it is appropriate to install monitoring wells on the upgradient property at this time. The scope of work states that more monitoring wells could be installed based on the data collected from the phase I borings.
- Page 6, comment 5: The shallow well screens are based on groundwater level data from 1987 to present from well EA-5 and historical site monitoring wells and the 2011 investigation. Well screens are approximate and will be based on conditions encountered at the time of drilling. One of the investigation objectives is to confirm the groundwater flow direction. If the well is screened deeper than 5 fbg, there is a risk of submerged well screens since historical depth to groundwater has been at least 5 fbg. If groundwater is not under confining conditions, then submerged well screens may skew the groundwater flow direction data.
- Page 7, comment 1: The work plan purposes to further investigate HVOCs.–The 2011 investigation results confirmed that petroleum hydrocarbons are no longer an issue at the site, and, as the RWQCB found in its January 2005 Closure Letter, have been adequately characterized and remediated.
- Page 8, comment 1: Further investigation of soil vapor is not part of this investigation. The purpose of the work plan is to further delineate the HVOC source area in soil, obtain hydrological data, and obtain data on HVOC concentrations in groundwater onsite, and upgradient and downgradient of the site.
- Figure 2, comment 1: See comment from Page 4, comment 2.
- Figure 2, comment 2: The comment includes no text.
- Figure 2, comment 3: Symbols that are not present on the figure will be removed from the legend.
- Figure 2, comment 4: The comment includes no text.
- Attachment A-1, comment 1: Attachment A contains the environmental investigation and remediation history at the site. Land use and other details are presented in the background section of the report.
- Attachment A-3, comment 1: Because the RWQCB previously agreed that EA-5 was an appropriate sentinel well the comment appears to be rhetorical. As RWQCB staff is aware, at the time of closure, EA-5 was the farthest downgradient monitoring well for the site. Based on the site management plan presented in Terradex's

September 30, 2004 *Closure Request*, data from monitoring of well EA-5 would validate that the "Groundwater plume remains stable and does not migrate beyond EA-5." The RWQCB approved this plan and issued a 'No Further Action' letter dated January 14, 2005.

- Attachment B, comment 1: The comment is noted. Many of the soil properties listed can be evaluated by a geotechnical laboratory analysis/procedure.
- Attachment B, comment 2: See comment from Page 5, comment 3.

Regards,

Celina Hernandez, PG
Conestoga-Rovers & Associates (CRA)
5900 Hollis Street
Suite A
Emeryville, CA 94608

Phone: (510) 420-3340
Fax: (510) 420-9170
Email: chernandez@CRAworld.com
www.CRAworld.com

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From: Brown, Kevin@Waterboards [mailto:Kevin.Brown@waterboards.ca.gov]
Sent: Wednesday, April 16, 2014 11:54 AM
To: Bwaite@chevron.com; Wilken, Brandon
Cc: tlittleworth@chevron.com
Subject: 07-0437/07S0204; Preliminary Review of Work Plan

Attached are review comments for the unsolicited work plan submitted by Chevron (received in our office on January 9, 2014). My previous supervisor instructed me to hold off on completing a review of the work plan; my new supervisor instructed me in mid-March to review the document and provide preliminary comments.

At this time, we cannot approve the work plan without an addendum that properly addresses our comments and concerns. Please review the attachment and prepare responses. If you have any questions or comments of your own, please email me at your convenience.

Thank you.

Regards,

Kevin D. Brown, PG, CEG
Engineering Geologist
San Francisco Bay Regional Water Quality Control Board
1515 Clay Street, Suite 1400
Oakland, CA 94612
(510) 622-2358
kebrown@waterboards.ca.gov

California Regional Water Quality Control Board
San Francisco Bay Region

Dr. Alan Lloyd
Secretary for Environmental Protection

1515 Clay Street, Suite 1400, Oakland, California 94612
(510) 622-2300 • Fax (510) 622-2460
http://www.waterboards.ca.gov/sanfranciscobay

Arnold Schwarzenegger
Governor

Date: January 14, 2005
File No.: 07-0437(MYM)

Chevron Environmental Management Company
Att: Tom Bauhs
6001 Bolinger Canyon Road
San Ramon, CA 94953

SUBJECT: **Transmittal of Case Closure Letter and Site Closure for 1705 Contra Costa Boulevard, Pleasant Hill, Contra Costa County**
UST Case No. 07-0437

Dear Mr. Bauhs:

Attached, please find the uniform underground storage tank closure letter and site closure summary for the subject site.

The existing monitoring wells that no longer will be used should be properly destroyed pursuant to the Contra Costa County monitoring well abandonment guidelines. For information regarding these guidelines, please contact the county's Department of Environmental Health at (925) 646-5225.

If you have any questions regarding this letter, please contact Martin Musonge at (510) 622-2396 or e-mail: mmusonge@waterboards.ca.gov.

Sincerely,

Bruce H. Wolfe
Executive Officer

Enclosure:

Closure letter dated January 14, 2005
Site Summary Form dated January 3, 2005

Cc w/enclosure:

Allan Patton
Cleanup Fund Section
State Board
P.O. Box 100
Sacramento, CA 95812

Bob Winzlau
TERRADEX
855 El Camino Real, Suite No. 311
Palo Alto, CA 94301

California Regional Water Quality Control Board
San Francisco Bay Region

Dr. Alan Lloyd
Secretary for Environmental Protection

1515 Clay Street, Suite 1400, Oakland, California 94612
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http://www.waterboards.ca.gov/sanfranciscobay

Arnold Schwarzenegger
Governor

Date: January 14, 2005
File No.: 07-0437(MYM)

Chevron Environmental Management Company
Att: Tom Bauhs
6001 Bolinger Canyon Road
San Ramon, CA 94953

SUBJECT: **Underground Storage Tank (UST) Case Closure for 1705 Contra Costa Boulevard, Pleasant Hill, Contra Costa County**
UST Case No. 07-0437

Dear Mr. Bauhs:

This letter confirms the completion of a site investigation and remedial action for the underground storage tank(s) formerly located at the above described location. Thank you for your co-operation throughout this investigation. Your willingness and promptness in responding to our inquiries concerning the former underground storage tank(s) are greatly appreciated.

Based on the information in the above-referenced file and with the provision that the information provided to this agency was accurate and representative of site conditions, no further action related to the underground storage tank(s) release is required.

This notice is issued pursuant to a regulation contained in Section 2721(e) of Title 23 of the California Code of Regulations.

Please contact our office if you have any questions regarding this matter.

Sincerely,

Bruce H. Wolfe
Executive Officer

SITE CLOSURE SUMMARY

I. AGENCY INFORMATION

Date: January 3, 2005

Agency Name: SF Bay Regional Water Quality Control Board	Address: 1515 Clay Street, Suite 1400
City/State/Zip: Oakland, CA 94612	Phone: 510-622-2396
Responsible Staff Person: M. Musonge	Title: Water Resources Control Engineer

II. SITE INFORMATION

Site Facility Name: Former Chevron Service Station 9-6817		
Site Facility Address: 1705 Contra Costa Boulevard, Pleasant Hill, California 94523		
RB Case Nos.: 07-0437	Local or LOP Case No.: 62918	Priority: Low
URF Filing Date: 1986	SWEEPS No.:	
Responsible Parties (include addresses and phone numbers)		
Chevron Environmental Management Company 6001 Bolinger Canyon Road, San Ramon, California, 94853 Attn. Mr. Tom Bauhs, Mail Stop K2204 Voice: 925-842-8898		

Tank No.	Size in Gallons	Contents	Closed In—Place/Removed?	Date
1	10,000	Gasoline	Replaced	May1986
2	10,000	Gasoline	Replaced	May1986
3	5,000	Gasoline	Replaced	May1986
4	1,000	Waste Oil	Removed	May 1986

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and Type of Release: Unknown		
Site characterization complete? Yes	Date Approved by Oversight Agency: Varies	
Monitoring wells installed? Yes	Number: 7	Proper screened interval? Yes
Highest GW Depth Below Ground Surface: 19.5 ft	Lowest Depth: 5.5 ft	Flow Direction: Northwest
Most Sensitive Current Use: Drinking Water (Not used in area where groundwater is impacted)		
Most Sensitive Potential Use: Drinking Water (Probable use is low)		
Are drinking water wells affected? No	Aquifer Name: Ygnacio Valley Groundwater Basin	
Is surface water affected? No	Nearest surface water name: Grayson Creek	
Off-Site Beneficial Use Impacts (Addresses/Locations): None		
Report(s) on file? Yes	Where is report(s) filed? SFRWQCB	

TREATMENT AND DISPOSAL OF AFFECTED MATERIAL			
Material	Amount (Include Units)	Action (Treatment or Disposal w/Destination)	Date
Tank	4 Tanks	Disposed	1986
Piping	Not specified	Disposed	1995
Free Product	None	--	--
Soil	None	--	--
Groundwater	1,900,000 Gallons	Treated and Discharged	1991-1996
Barrels	None	--	--

MAXIMUM DOCUMENTED POLLUTANT CONCENTRATIONS---BEFORE AND AFTER CLEANUP

POLLUTANT	Soil (ppm)		Water (ppb)		POLLUTANT	Soil (ppm)		Water (ppb)	
	Before	After	Before	After		Before	After	Before	After
TPH(g)	770[1]	NS	110,000[4]	2,200[6]	Lead	7.1	NS	NS	NS
Benzene	2.2[1]	NS	12,000[4]	12[6]	PCE	328[2]	NS	5,000[10]	750[7]
Toluene	.32[1]	NS	7,100[4]	<1[6]	TCE	86[3]	NS	3,600[11]	240[7]
Ethyl Benzene	1.6[1]	NS	2,500[4]	4[6]	VC	ND	NS	1,000[12]	<1.0[7]
Xylenes	3.7[1]	NS	12,000[4]	2[6]	T-1,2-DCE	ND	NS	870[12]	12[7]
MtBE	ND	NS	570[4]	160[6]	C-1,2-DCE	ND	NS	2,900[11]	430[7]

Comments:

1. Soil Boring P-3 at 3.5 feet collected on 11/9/95
2. Soil Boring for P-1 collected at 3.5 feet collected on 11/9/95
3. Soil Boring for Well EA-3 at 5-10 feet collected on 8/88
4. Various groundwater samples from Well MW-D collected during 1989 and 1990
5. Groundwater sample Well EA-5 on 5/22/00
6. Groundwater sample Well MW-D on 5/03/04
7. Groundwater sample Well EA-3 on 5/03/04
8. Groundwater sample Well EA-2 on 5/03/04
9. Groundwater sample Well EA-5 on 5/03/04
10. Groundwater sample EA-3 on 1/03/89
11. Groundwater sample EA-2 on 5/12/03
12. Groundwater sample MW-C and MW-D on 1/03/89

IV. CLOSURE

Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan? Yes		
Does completed corrective action protect potential beneficial uses per the Regional Board Basin Plan? Yes		
Does corrective action protect public health for current land use? Yes		
Site Management Requirements: Yes, see comments.		
Monitoring Wells Decommissioned: 0 to date	Number Decommissioned: 6	Number Retained: 1
List Enforcement Actions Taken: None		
List Enforcement Actions Rescinded: None		

V. TECHNICAL REPORTS, CORRESPONDENCE, ETC., THAT THIS CLOSURE RECOMMENDATION WAS BASED UPON

Title: Closure Request, Former Chevron Service Station 9-6817	Date: 9/13/2004
Title: Closure Request – Supplemental Information	Date: 10/14/2004
Title	Date:
Title	Date:

VI. ADDITIONAL COMMENTS, DATA, ETC.

1. A site map indicating the former UST location, monitoring well locations (marked to be "destroyed"), groundwater gradient, and the site management zone that encompasses the area where residual contamination may be encountered in soil or groundwater.

2. Petroleum hydrocarbons and halogenated volatile organic compounds (HVOCs) will persist on the Site and into the public right-of-way of Linda Avenue, Dorris Drive and Contra Costa Boulevard. The petroleum hydrocarbons and HVOCs are stable, and both the petroleum hydrocarbons and HVOCs appear to be naturally attentuating, though the petroleum hydrocarbons are attenuating more rapidly.

3. A site management plan will be maintained until the residual petroleum hydrocarbons and HVOCs no longer pose a threat. Currently, there appears to be no threat to public health, the environment or water resources. Future potential threats, though not expected, can be limited through implementation of a site management plan. The site management plan will monitor for future land activities (Figure 1) that indicate either 1) future construction worker contact with soil, 2) relocation of occupied structures to current on-site carwash (residual HVOCs are present), 3) future environmental receptor contact with soil, or 4) future use of groundwater for drinking water or agricultural. The site management plan provides a mechanism for Chevron Environmental Management Company to mitigate the health and environmental impact of these activities.

4. A deed restriction is not necessary for this closure given that the site management program will be maintained for ten years, and then terminate.

5. Residual hydrocarbons do not appear to pose a current or potential threat to public health, the environment or water resources. Current land use on-site is as an active retail station, and the off-site is primarily within streets surrounding the Site, though some impact may extend across Linda Avenue. Current land uses and activities do appear at risk based upon risk assessements and site reconnaisance. When and if future land use changes or new activities occur, the site management plan provides a mechanism to detect, evaluate, and mitigate any adverse impact the petroleum hydrocarbons or HVOCs may pose.

This document and the related CASE CLOSURE LETTER shall be retained by the lead agency as part of the official site file.

July 2, 2014
File No. 07S0132 (KEB)
File No. 07S0204 (KEB)

1643 Contra Costa Boulevard parties*
Gregory Village Partners, L.P.
Village Builders, L.P.
Joseph J. Lee and Grace M. Lee
Alan Choi and Kauen Choi
Joseph William O'Malley
Floyd G. Taylor

1705 Contra Costa Boulevard parties**
Chevron U.S.A. Inc.
MB Enterprises, Inc.
Philip M. Lehrman
Jane A. Lehrman
Marjorie P. Robinson

SUBJECT: Transmittal of Staff Report and Tentative Orders – Site Cleanup Requirements for 1643 Contra Costa Boulevard and 1705 Contra Costa Boulevard, Pleasant Hill, Contra Costa County

Dear Addressees:

Attached are the Staff Report and Tentative Orders (Site Cleanup Requirements) for the subject sites. This transmittal letter is addressed to the named dischargers listed in the Tentative Orders for the properties located at 1643 and 1705 Contra Costa Boulevard. The attached materials will also be posted on the following Regional Water Board webpage:
http://www.waterboards.ca.gov/sanfranciscobay/public_notices/#sitecleanup

This matter will be considered by the Regional Water Board during its regular meeting on September 10, 2014. The meeting will start at 9:00 am and will be held in the first floor auditorium of the Elihu Harris Building, 1515 Clay Street, Oakland, California. Any written comments by you or interested persons must be submitted to the Regional Water Board offices by August 4, 2014. Comments submitted after this date will not be considered by the Regional Water Board.

Pursuant to section 2050(c) of Title 23 of the California Code of Regulations, any party that challenges the Regional Water Board's action on this matter through a petition to the State Water Board under Water Code section 13320 will be limited to raising only those substantive issues or objections that were raised before the Regional Water Board at the public hearing or in timely submitted written correspondence delivered to the Regional Water Board (see above).

If you have any questions, please contact Kevin Brown of my staff at (510) 622-2358 [e-mail kebrown@waterboards.ca.gov].

Sincerely,

Digitally signed by Stephen Hill
Date: 2014.07.02 14:53:31
-07'00'

Bruce H. Wolfe
Executive Officer

Attachments: Tentative Orders
Staff Report

cc w/attachments: Mailing List Interested Parties

*** 1643 Contra Costa Boulevard parties:**

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Attn.: Timothy C. Cronin
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Alan Choi and Kauen Choi
682 Bridgeport Circle, #29
Fullerton, CA 92833

Mr. Joseph William O'Malley
1891 Risdon Road
Concord, CA 94518

Mr. Floyd G. Taylor
300 Melanie Drive
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**** 1705 Contra Costa Boulevard parties:**

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CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

TENTATIVE ORDER

ADOPTION OF INITIAL SITE CLEANUP REQUIREMENTS for:

GREGORY VILLAGE PARTNERS, L.P.,
VILLAGE BUILDERS, L.P.,
JOSEPH J. LEE,
GRACE M. LEE,
ALAN CHOI,
KAUEN CHOI,
JOSEPH WILLIAM O'MALLEY, and
FLOYD G. TAYLOR

for the property located at:

1643 CONTRA COSTA BOULEVARD
PLEASANT HILL, CONTRA COSTA COUNTY

The California Regional Water Quality Control Board, San Francisco Bay Region (hereinafter "Regional Water Board"), finds that:

1. **Site Location and Description**: The 3.6-acre Gregory Village Shopping Center, a commercial retail plaza with an address of 1601-1699 Contra Costa Boulevard (Assessor's Parcel No. 150-052-009-1), is located on the west side of Contra Costa Boulevard in Pleasant Hill, California. A dry cleaner, with an address of 1643 Contra Costa Boulevard (the "Site"), once operated out of a small suite within the shopping center. Several commercial parcels are located directly north and south of the plaza, and residential properties also exist to the west and north.

2. **Site History**: The Gregory Village Shopping Center, reportedly constructed in 1950, contains approximately twenty retail and commercial tenants in a one-story building, and is currently owned by Gregory Village Partners, L.P. (herein "GVP"). Historical records indicate a dry cleaner operated within the Site from at least 1965 until the present. Gregory Cleaners and P&K Cleaners occupied the Site, from 1965-1984 and 1984-2002, respectively.

   In 1997, chlorinated volatile organic compounds ("CVOCs"), primarily the common dry cleaning solvent tetrachloroethylene (also known as "PCE" or "Perc"), were detected in shallow soil and groundwater beneath and near the dry cleaner during a due diligence investigation. PCE, a potential human carcinogen, was also detected in shallow soil vapor. Trichloroethylene ("TCE"), cis-1,2-dichloroethene ("cis-1,2-DCE"), trans-1,2-DCE, and vinyl chloride, toxic compounds formed from the degradation of PCE, were detected in soil, soil vapor, and groundwater. A CVOC groundwater plume formed from the past PCE

releases, and the plume currently extends beneath a residential subdivision to the north of the shopping center. CVOCs were detected beneath the concrete slab-on-grade floors of the former dry cleaner and several homes, and also within the indoor air of several houses.

Dry Cleaning Business Operations: According to information provided by GVP, the first dry cleaner to occupy the Site was "Gregory Cleaners", which reportedly started operations on or about December 2, 1965. Gregory Cleaners reportedly operated until August 1, 1984, when its name was changed to "P&K Cleaners." The dry cleaner was renamed "Nob Hill Cleaners" on or about May 6, 2002, and retained this name to approximately May 20, 2004, when it was renamed "Park Avenue Cleaners" (a name it currently holds).

According to GVP, Joseph William O'Malley and Floyd G. Taylor (February 9, 1979 to approximately 1983), Alan Choi and Kauen Choi (December 1, 1983 to August 1, 1984), and Joseph J. Lee and Grace M. Lee (August 1, 1984 to April 1, 1988), reportedly operated a dry cleaner at the Site when PCE was likely used and discharged. According to GVP, on-Site dry cleaning operations occurred between 1964 and March 1991, after which the dry cleaner became a "drop-off" and clothes were cleaned at an off-Site facility.

Regional Water Board staff was not provided with any information about operators of the dry cleaner prior to 1979, however, given the lack of records indicating a change in type of equipment, and the propensity of dry cleaners to use PCE prior to 1979, it is reasonable to conclude that PCE was used and discharged at the Site before 1979.

Regional Water Board staff discovered a reference to an April 10, 1987, Uniform Hazardous Waste Manifest (for the disposal of hazardous wastes), provided by the Department of Toxic Substances Control, for "P&K Gregory Cleaners" with the Site's address. This is consistent with the timeframe when dry cleaners using PCE used hazardous waste haulers to dispose of PCE-contaminated wastewater and other waste.

Furthermore, high concentrations of PCE were detected in soil vapor directly beneath the former dry cleaner, strong evidence that PCE was used and released at the property.

Land Ownership during Dry Cleaner Operations: The Gregory Village Shopping Center property was owned by several different individuals and entities since approximately 1949 to the present. The chain-of-title to the property, since December 1965 (when dry cleaning activities reportedly commenced) is as follows:

<u>December 1965 through February 25, 1998</u>

- Ken Lowry/Kenlow Corporation
    - According to the California Secretary of State's web-site, the business license for the Kenlow Corporation, who reportedly owned the shopping center starting on August 1, 1960, was suspended in 2000. No agent for service of process is listed for the company.

<u>February 25, 1998 through Present</u>

- Gregory Village Partners, L.P. (60% tenancy-in-common interest)
- Village Builders, L.P. (40% tenancy-in-common interest)

- On March 29, 2004, the Village Builders' interest was sold to Gregory Village Partners, L.P., currently holding 100% fee interest in the property

The Site currently houses Park Avenue Cleaners. Since PCE was not used at the Site for many years (reportedly since at least 1991), there is no reason to suspect the current business is responsible for the pollution.

3. **Named Dischargers**:

GVP is named as a discharger because it is the current owner of the property on which there is an ongoing discharge of pollutants, it has knowledge of the discharge or the activities that caused the discharge, and it has the legal ability to control the discharge.

Joseph J. Lee, Grace M. Lee, Alan Choi, Kauen Choi, Joseph William O'Malley, and Floyd G. Taylor are named as dischargers because of substantial evidence that they discharged pollutants to soil and groundwater at the Site: it is common knowledge that releases occurred during routine operations involving chlorinated solvents in dry cleaning; these same pollutants are present in soil and groundwater directly beneath and in the immediate vicinity of the dry cleaner; and these same pollutants are present in groundwater at and downgradient of the dry cleaner in concentrations that generally diminish with distance. Each of these dischargers knew of the discharge or activities that caused the discharge, and each had the legal ability to control the discharge during their respective period of operating the dry cleaner.

Village Builders, L.P. is named as a discharger because it is a former owner of the property during whose ownership there was an ongoing discharge of pollutants, it had knowledge of the discharge or the activities that caused the discharge, and it had legal ability to control the discharge.

If additional information is submitted indicating other parties caused or permitted any waste to be discharged on the Site where it entered or could have entered waters of the State, the Regional Water Board will consider adding those parties to this Order.

4. **Regulatory Status**: The Site is currently not subject to a Regional Water Board order.

5. **Site Hydrogeology**: The Site is located within the Ygnacio Valley Groundwater Basin, a structural depression between the Berkeley Hills to the west and the Diablo Range to the east. The basin sediments consist of thick Quaternary-age alluvial and floodplain deposits, generally comprised of unconsolidated to partially-consolidated, discontinuous layers of silt, clay, sand, and gravel. The local topography is gently tilted to the north and northwest.

Groundwater levels in the first-encountered/shallow water-bearing zone below and downgradient of the Site have fluctuated between approximately seven and 14 feet below the ground surface. The groundwater flow direction in the shallow zone has varied from northwest to northeast, with a regional flow direction to the north, at an average gradient of approximately 0.005 feet per foot.

6. **Hydrology:** The closest major surface water bodies to the Site are Grayson Creek, located approximately 2,000 feet to the west, and Walnut Creek, located roughly 2,000 feet to the east. No municipal drinking water supply wells are known to exist within a two-mile radius of the site. Shallow "backyard" irrigation wells are common on residential parcels in Pleasant Hill, but a door-to-door domestic well survey has not been completed in the residential subdivision downgradient of the Site.

7. **Remedial Investigation**: Numerous soil, soil vapor, and groundwater samples collected and analyzed during approximately 17 years of environmental investigation and cleanup activities at the Site have detected a variety of chemicals, several of which are very toxic to human health. CVOCs were detected in soil, soil vapor, and shallow groundwater within the boundaries of the shopping center and also in soil vapor and groundwater upgradient and downgradient of the Site, at concentrations above health-based standards. For example, the data indicates CVOCs are present in groundwater at levels exceeding the maximum contaminant levels (MCLs).[1]

   In 1997, several environmental assessments identified the Site as a source of PCE contamination and confirmed that two previous tenants used PCE in their dry cleaning operations. The studies confirmed the presence of CVOCs, mainly PCE, in soil and groundwater in the vicinity of the Site. PCE was detected in soil up to 1.1 mg/kg, and groundwater samples contained PCE up to 27,000 micrograms per liter (µg/L) near a sewer lateral at the rear of the Site.

   Following site investigations in 2003 and 2008 that detected PCE in soil vapor at the rear of the suite and below the Site's slab-on-grade floor, in June 2009 soil vapor samples were collected from multi-depth soil vapor probes ("MSVPs"). These MSVPs were installed in several streets within a residential neighborhood downgradient of the Site. PCE, TCE, and cis-1,2-DCE were detected at maximum concentrations of 52,100 µg/m³ at six feet, 15,700 µg/m³ at nine feet, and 16,300 µg/m³ at nine feet, respectively. The highest on-Site soil vapor concentrations were detected in MSVP-7, a probe advanced directly to the rear (west) of the dry cleaner; at this location, PCE and TCE were discovered at 54,800 µg/m³ and 6,240 µg/m³ at a depth of nine feet.

   In May 2010, five sub-slab soil vapor probes (SSVPs) were installed beneath the Site, while four probes were constructed beneath the two adjacent commercial units. Beneath the Site, PCE soil vapor concentrations ranged from 5,720 µg/m³ to 1,490,000 µg/m³, with the highest concentration directly beneath the former dry cleaner machine. Below the 1637 Contra Costa Boulevard unit (a suite directly north of the Site), PCE concentrations were 61,200 µg/m³ and 59,600 µg/m³, while PCE concentrations beneath the 1649 Contra Costa Boulevard unit (a suite directly south of the Site) were 2,100 µg/m³ and 3,080 µg/m³.

[1] The drinking water standard for PCE and TCE, known as the maximum contaminant level, or MCL, is 5 µg/L. The Regional Water Board's 2013 Environmental Screening Levels (ESLs) for potential vapor intrusion concerns at commercial facilities are 2,100 µg/m³ (PCE) and 3,000 µg/m³ (TCE), respectively.

In June 2010, PCE was detected in a sub-slab soil vapor sample collected directly beneath the garage floor of a residential property (95 Cynthia Drive) located downgradient of the Site at a concentration of 12,800 µg/m³. PCE was detected in an exterior probe (5.5 feet deep) at a concentration of 220 µg/m³. A follow-up sub-slab sample collected on August 17, 2010, detected PCE in soil vapor beneath the garage at 18,600 µg/m³. Two indoor air samples were also collected on August 16 and 17, 2010, and PCE was detected at concentrations of 6.46 µg/m³ and 1.04 µg/m³. In November 2010, samples collected from two sub-slab soil vapor probes installed at 99 Cynthia Drive detected PCE at concentrations of 1,540 µg/m³ and 6,530 µg/m³.

The maximum detected concentrations of contaminants of potential concern are listed by medium in the table below:

Analyte	Maximum Concentration Detected		
	Groundwater (µg/L)	Soil (mg/kg)	Soil Gas (µg/m^3)
PCE	27,000	5.3	1,490,000
TCE	130	0.03	<12,900
cis-1,2-DCE	<40	<0.04	<9,520
vinyl chloride	<50	<0.05	<6,130

The CVOC concentrations in groundwater are substantially above the drinking water standards (e.g., the Maximum Contaminant Level, or MCL, for PCE is 5 µg/L). The concentrations of PCE detected in soil vapor directly beneath the dry cleaner and adjacent units (subslab) are well above the Regional Water Board's 2013 *Environmental Screening Levels* (ESLs) [2] for potential vapor intrusion concerns at commercial facilities, which is 2,100 µg/m³. The concentrations of PCE detected in sub-slab soil vapor beneath several homes exceed the Regional Board's 2013 ESLs for potential vapor intrusion concerns at residential sites (210 µg/m³).

Based on the characterization studies completed to date, additional delineation of CVOCs in soil, soil vapor and groundwater is necessary.

8. **Interim Remedial Measures**: In October 1999, approximately 30 gallons of PCE were removed from the dry cleaning machine and transported off-Site to a disposal facility. In November 1999, approximately 30 cubic yards of soil were excavated from beneath the concrete floor slab and transported to the Altamont Landfill in March 2000.

   In 2011, sub-slab depressurization (SSD) systems were installed as mitigation measures beneath the concrete floor of the Site (dry cleaner only) and two residential properties; 95 Cynthia Drive and 99 Cynthia Drive. The SSD systems were installed to prevent soil vapors from entering the structures; the systems are not remediating CVOC-contaminated soil and groundwater beneath the structures.

[2] See Regional Water Board webpage: http://www.waterboards.ca.gov/rwqcb2/water_issues/programs/esl.shtml

Additional interim remedial measures likely will be necessary to reduce the threat to water quality, public health, and the environment posed by the past chemical releases, and to provide a technical rationale behind the selection and design of final remedial measures.

9. **Nearby Sites**: The property at 1705 Contra Costa Boulevard, directly south of the shopping center, is currently a Chevron-branded gas station. Between 1972 and 1986, a former steel waste oil Underground Storage Tank (UST) leaked petroleum hydrocarbons and CVOCs into soil and groundwater at this property. A former dry cleaner used to operate in the southern part of the property; the dry cleaner used and leaked PCE into the subsurface. The property has a long and well-documented history of chemical use and unauthorized releases, including significant CVOC releases to soil and groundwater. Petroleum and CVOC releases at this property have commingled with the CVOC plume originating from the Site. This property is the subject of another proposed order directed to Chevron U.S.A., Inc. and others.

A former Unocal gas station located at 1690 Contra Costa Boulevard is cross-gradient and east of the southern part of the main parking lot. This site, now a McDonald's restaurant, had confirmed releases of petroleum hydrocarbons and fuel oxygenates to soil and groundwater. A waste oil UST was removed from the site in 2000. The case (Regional Water Board Case No. 07-0450) was closed on September 27, 2010. It is possible that MTBE and other fuel-related constituents have migrated in groundwater from this property and onto the Site, but there is insufficient evidence to reach this conclusion at this time.

A former gas station (now a Taco Bell restaurant, 1700 Contra Costa Boulevard) is located cross-gradient and approximately 150 feet southeast of the main parking lot. This property had historic releases of petroleum hydrocarbons. A waste oil UST was removed from the site in the past (date unknown). The case (Regional Water Board Case No. 07-0873) was closed on May 20, 2008. It is possible that fuel-related chemicals have migrated in groundwater from this property and beneath the Site, but there is insufficient evidence to reach this conclusion at this time.

Minor concentrations of CVOCs were detected in the groundwater beneath a former gas station at 1521-1529 Contra Costa Boulevard, located directly north of the main parking lot and upgradient of CVOC detections in soil vapor and groundwater in the residential neighborhood north of the Gregory Village Shopping Center. The property, which was an automotive service and fueling station until 1977, has an unknown chemical release history. The case (Regional Water Board Case No. 07-0893) is currently open. It is possible that fuel-related chemicals have migrated in groundwater from this property and beneath the Site, but there is insufficient evidence to reach this conclusion at this time. Additional data will be necessary to confirm that CVOCs were not released during the historic service station operations.

Two other dry cleaners, located at 1946 Contra Costa Boulevard (07S0088; Former Dutch Girl Cleaners and currently the "Hosanna Cleaners") and 2001 Contra Costa Boulevard, are upgradient of the Site. The 07S0088 case is inactive and approximately 2,000 feet south-southeast of the Site. It is highly unlikely, primarily because of the lateral distance between this property and the Site, that any PCE released on this property has migrated in

groundwater and commingled with the CVOC plume associated with the Site. The 2001 Contra Costa Boulevard property, currently named PH Bargain Cleaners, is located approximately 1,300 feet to the south, and is not listed as a case in the Water Board records.

Three former and current paint shops - 1725 Contra Costa Boulevard, 1720 Linda Drive, and 1942 Linda Drive - are located upgradient of the Chevron property. The 1725 Contra Costa Boulevard property, the former "Deen Pierce Paint Company (Case No. 07-0344 and closed on July 20, 1994), had a former UST which reportedly contained mineral spirits; the UST was removed on or about July 16, 1986. Regional Water Board staff does not have any information about the other two paint shops. There is insufficient evidence to determine whether constituents from these properties have commingled with contamination at the Site.

Former and current automotive maintenance facilities at 1855-1859 Contra Costa Boulevard are located approximately 1,100 feet upgradient of the Site. CVOCs and petroleum hydrocarbons were released at this site. The case (Regional Water Board Case No. 07-0022) is open. No evidence was presented to the Regional Water Board to indicate a groundwater plume from this property has migrated all the way to 1705 Contra Costa Boulevard (the "Chevron" property).

10. **Basin Plan**: The Water Quality Control Plan for the San Francisco Bay Basin (Basin Plan) is the Regional Water Board's master water quality control planning document. It designates beneficial uses and water quality objectives for waters of the State, including surface waters and groundwater, and also includes programs of implementation to achieve water quality objectives. The Basin Plan was duly adopted by the Regional Water Board and approved by the State Water Resources Control Board, U.S. EPA, and the Office of Administrative Law where required.

The potential beneficial uses of groundwater underlying and adjacent to the Site include:

a. Municipal and domestic water supply
b. Industrial process water supply
c. Industrial service water supply
d. Agricultural water supply

At present, there is no known use of the shallow groundwater zone underlying the Site for the above purposes. The vertical extent of groundwater contamination is unknown, and a future vertical delineation study is warranted. Because the Regional Water Board has insufficient information regarding the actual use of groundwater in the vicinity of the Site, Task 1 includes a requirement to survey for sensitive receptors. Similarly, the extent to which the shallow groundwater zone is connected to lower zones is not well-defined, necessitating the requirement in Task 1 to study potential vertical conduits and preferential pathways.

11. **State Water Board Policies**: State Water Board Resolution No. 68-16, "Statement of Policy with Respect to Maintaining High Quality of Waters in California," applies to this discharge and requires attainment of background levels of water quality, or the highest level of water quality which is reasonable if background levels of water quality cannot be restored. Cleanup levels other than background shall be consistent with the maximum benefit to the people of the State, not unreasonably affect present and anticipated beneficial uses of such water, and not result in exceedance of applicable water quality objectives. This order and its requirements are consistent with Resolution No. 68-16.

    State Water Board Resolution No. 92-49, "Policies and Procedures for Investigation and Cleanup and Abatement of Discharges Under Water Code Section 13304," applies to this discharge. This order and its requirements are consistent with the provisions of Resolution No. 92-49, as amended.

12. **Other Board Policy**: Regional Water Board Resolution No. 89-39, "Sources of Drinking Water," defines potential sources of drinking water to include all groundwater in the region, with limited exceptions for areas of high TDS, low yield, or naturally-high contaminant levels. The groundwater at this Site is a potential source of drinking water.

13. **Preliminary Cleanup Goals**: The Dischargers will need to make assumptions about future cleanup standards for soil, soil vapor, and groundwater in order to determine the necessary extent of remedial investigation, interim remedial actions, and the draft remedial action plan. Pending the establishment of site-specific cleanup standards, the following preliminary cleanup goals shall be used:

    a. Groundwater: Applicable water quality objectives (e.g., the lower of primary/toxicity and secondary/taste and odor MCLs) or, in the absence of a chemical-specific objective, equivalent drinking water levels based on toxicity and taste and odor concerns.

    b. Soil and Soil Vapor: Applicable screening levels as compiled in the Regional Water Board's Environmental Screening Levels (ESLs) document or its equivalent. Soil and soil vapor screening levels are intended to address a full range of exposure pathways, including direct exposure, indoor air impacts, nuisance, and leaching to groundwater. For purposes of this subsection, the Discharger shall assume that groundwater is a potential source of drinking water.

14. **Basis for 13267 and 13304 Order**: Water Code section 13267 authorizes the Regional Water Board to require a person who has discharged, discharges or is suspected of having discharged or discharging, to furnish technical or monitoring program reports. The burden of the reports required by this Order bears a reasonable relationship to the need for the report and the benefits to be obtained (to characterize the extent of contamination, the associated risks to human health and the environment, and document success of remediation efforts). Water Code section 13304 authorizes the Regional Water Board to issue orders requiring a discharger to cleanup and abate waste where the discharger has caused or permitted waste to be discharged or deposited where it is or probably will be

discharged into waters of the State and creates or threatens to create a condition of pollution or nuisance. As discussed above, each of the dischargers has caused or permitted waste to be discharged or deposited, causing contamination of soil and groundwater. Contamination of groundwater creates and threatens to create conditions of pollution and nuisance.

15. **Cost Recovery**: Pursuant to Water Code section 13304, the Dischargers are hereby notified that the Regional Water Board is entitled to, and may seek reimbursement for, all reasonable costs actually incurred by the Regional Water Board to investigate unauthorized discharges of waste and to oversee cleanup of such waste, abatement of the effects thereof, or other remedial action, required by this order.

16. **California Environmental Quality Act (CEQA)**: This action is an order to enforce the laws and regulations administered by the Regional Water Board. As such, this action is categorically exempt from the provisions of CEQA pursuant to Title 14 of the California Code of Regulations, section 15321.

17. **Safe Drinking Water Act:** It is the policy of the State of California that every human being has the right to safe, clean, affordable, and accessible water adequate for human consumption, cooking, and sanitary purposes. This order promotes that policy by requiring discharges to meet the lower of primary and secondary maximum contaminant levels designed to protect human health and ensure that water is safe for domestic use.

18. **Notification**: The Regional Water Board has notified the Dischargers and all interested agencies and persons of its intent under Water Code section 13304 to prescribe Site Cleanup Requirements for the discharge, and has provided them with an opportunity to submit their written comments.

19. **Public Hearing**: The Regional Water Board, at a public meeting, heard and considered all comments pertaining to the proposed site cleanup requirement for the Site.

IT IS HEREBY ORDERED, pursuant to sections 13267 and 13304 of the Water Code, that the Dischargers (or their agents, successors, or assigns) shall investigate, cleanup, and abate the effects described in the above findings as follows:

A. PROHIBITIONS

1. The discharge of wastes or hazardous substances in a manner which will degrade water quality or adversely affect beneficial uses of waters of the State is prohibited.

2. Further significant migration of wastes or hazardous substances through subsurface transport to waters of the State is prohibited.
3. Activities associated with the subsurface investigation and cleanup which will cause significant adverse migration of wastes or hazardous substances are prohibited.

B. TASKS

1. COMPLETION OF SENSITIVE RECEPTOR SURVEY AND CONDUIT STUDY

COMPLIANCE DATE: November 7, 2014

Submit a technical report acceptable to the Executive Officer documenting the completion of an up-to-date sensitive receptor survey and a conduit study. To evaluate the potential impact of the contamination on human health and the environment, the locations of sensitive receptors, including all water supply and irrigation wells, shall be identified. A door-to-door well survey shall be completed in the residential subdivisions to the north and west of the shopping plaza. A conduit study is needed to evaluate the role of subsurface utilities in the migration or accumulation of CVOCs in the subsurface.

2. PUBLIC PARTICIPATION PLAN

COMPLIANCE DATE: November 7, 2014

Submit a technical report acceptable to the Executive Officer to ensure adequate public participation will be undertaken at key steps in the remedial action process.

3. REMEDIAL INVESTIGATION/DATA GAP WORK PLAN

COMPLIANCE DATE: December 12, 2014

Submit a work plan acceptable to the Executive Officer to further evaluate source areas and to define the vertical and lateral extent of CVOCs in soil, soil vapor, and groundwater including, but not limited to: new vapor sampling at certain residential parcels and units within the shopping center; resampling of existing soil vapor probes; and, deeper groundwater investigation and sampling, both on- and off-Site.
The work plan shall specify investigation methods and a proposed time schedule.

4. COMPLETION OF REMEDIAL INVESTIGATION

COMPLIANCE DATE: 90 Days after Executive Officer approval of Task 3. Work Plan

Submit a technical report acceptable to the Executive Officer documenting completion of necessary tasks identified in the Task 2 work plan. The technical report shall define the vertical and lateral extent of pollution down to concentrations at or below typical cleanup standards for soil, soil vapor, and groundwater.

5. COMPLETION OF HUMAN HEALTH RISK ASSESSMENT

COMPLIANCE DATE: 90 Days after Executive Officer approval of Task 4.

Submit a technical report acceptable to the Executive Officer documenting the completion of an appropriate human health risk assessment.

6. DRAFT REMEDIAL ACTION PLAN INCLUDING DRAFT CLEANUP STANDARDS

COMPLIANCE DATE: 90 Days after Executive Officer approval of Task 5.

Submit a technical report acceptable to the Executive Officer containing:

a. Results of the remedial investigation;
b. Evaluation of the installed interim remedial actions;
c. Feasibility study evaluating alternative final remedial actions;
d. Risk assessment for current and post-cleanup exposures;
e. Recommended final remedial actions and cleanup standards; and,
f. Implementation tasks and time schedule.

Item c shall include projections of cost, effectiveness, benefits, and impact on public health, welfare, and the environment of each alternative action.

Items a through c shall be consistent with the guidance provided by Subpart F of the National Oil and Hazardous Substances Pollution Contingency Plan (40 CFR Part 300), CERCLA guidance documents with respect to remedial investigations and feasibility studies, Health and Safety Code section 25356.1(c), and State Board Resolution No. 92-49 as amended ("Policies and Procedures for Investigation and Cleanup and Abatement of Discharges Under Water Code Section 13304").

Item e shall consider the preliminary cleanup goals for soil and groundwater identified in finding 13, and shall address the attainability of background levels of water quality (see finding 11).

7. DELAYED COMPLIANCE

If the Dischargers are delayed, interrupted, or prevented from meeting one or more of the completion dates specified for the above tasks, the Discharger shall promptly notify the Executive Officer and the Board may consider revision to this Order.

C. PROVISIONS

1. **No Nuisance**: The storage, handling, treatment, or disposal of polluted soil or groundwater shall not create a nuisance as defined in Water Code section 13050(m).

2. **Good Operations and Maintenance (O&M)**: The Discharger shall maintain in good working order and operate as efficiently as possible any facility or control system installed to achieve compliance with the requirements of this Order.

3. **Cost Recovery**: The Dischargers shall be liable, pursuant to Water Code section 13304, to the Board for all reasonable costs actually incurred by the Board to investigate unauthorized discharges of waste and to oversee cleanup of such waste, abatement of the effects thereof, or other remedial action, required by this Order. If the site addressed by this Order is enrolled in a State Board-managed reimbursement program, reimbursement shall be made pursuant to this Order and according to the procedures established in that program. Any disputes raised by the Dischargers over reimbursement amounts or methods used in that program shall be consistent with the dispute resolution procedures for that program.

4. **Access to Site and Records**: In accordance with Water Code section 13267(c), the Dischargers shall permit the Board or its authorized representative:

    a. Entry upon premises in which any pollution source exists, or may potentially exist, or in which any required records are kept, which are relevant to this Order.
    b. Access to copy any records required to be kept under the requirements of this Order.
    c. Inspection of any monitoring or remediation facilities installed in response to this Order.
    d. Sampling of any groundwater or soil which is accessible, or may become accessible, as part of any investigation or remedial action program undertaken by the Dischargers.

5. **Self-Monitoring Program**: The Dischargers shall comply with the Self-Monitoring Program as attached to this Order and as may be amended by the Executive Officer.

6. **Contractor/Consultant Qualifications**: All technical documents shall be signed by and stamped with the seal of a California registered geologist, a California certified engineering geologist, or a California registered civil engineer.

7. **Lab Qualifications**: All samples shall be analyzed by State-certified laboratories or laboratories accepted by the Board using approved EPA methods for the type of analysis to be performed. All laboratories shall maintain quality assurance/quality control (QA/QC) records for Board review. This provision does not apply to analyses that can only reasonably be performed on-Site (e.g., temperature).

8. **Document Distribution**: Copies of all correspondence, technical reports, and other documents pertaining to compliance with this Order shall be provided to the following agencies:

    - Regional Water Quality Control Board
    - City of Pleasant Hill
    - County of Contra Costa

    The Executive Officer may modify this distribution list as needed.

All reports submitted pursuant to this Order shall be submitted as electronic files in PDF format. All electronic files shall be submitted via the State Water Board's Geotracker website, email (only if the file size is less than 3 MB), or on CD.

9. **Reporting of Changed Owner or Operator**: The Dischargers shall file a technical report on any changes in Site occupancy or ownership associated with the property described in this Order.

10. **Reporting of Hazardous Substance Release**: If any hazardous substance is discharged in or on any waters of the State, or discharged or deposited where it is, or probably will be, discharged in or on any waters of the State, the Dischargers shall report such discharge to the Board by calling (510) 622-2369 during regular office hours (Monday through Friday, 8:00 AM to 5:00 PM).

    A written report shall be filed with the Board within five working days. The report shall describe: the nature of the hazardous substance, estimated quantity involved, duration of incident, cause of release, estimated size of affected area, nature of effect, corrective actions taken or planned, schedule of corrective actions planned, and persons/agencies notified.

    This reporting is in addition to reporting to the Office of Emergency Services required pursuant to the Health and Safety Code.

12. **Periodic Site Cleanup Requirement Review**: The Board will review this Order periodically and may revise it when necessary. The Dischargers may request revisions and upon review the Executive Officer may recommend that the Board revise these requirements.

I, Bruce H. Wolfe, Executive Officer, do hereby certify that the foregoing is a full, true, and correct copy of an Order adopted by the California Regional Water Quality Control Board, San Francisco Bay Region, on _____.

_____
Bruce H. Wolfe
Executive Officer

==========

FAILURE TO COMPLY WITH THE REQUIREMENTS OF THIS ORDER MAY SUBJECT YOU TO ENFORCEMENT ACTION, INCLUDING BUT NOT LIMITED TO: IMPOSITION OF ADMINISTRATIVE CIVIL LIABILITY UNDER WATER CODE SECTIONS 13268 OR 13350, OR REFERRAL TO THE ATTORNEY GENERAL FOR INJUNCTIVE RELIEF OR CIVIL OR CRIMINAL LIABILITY

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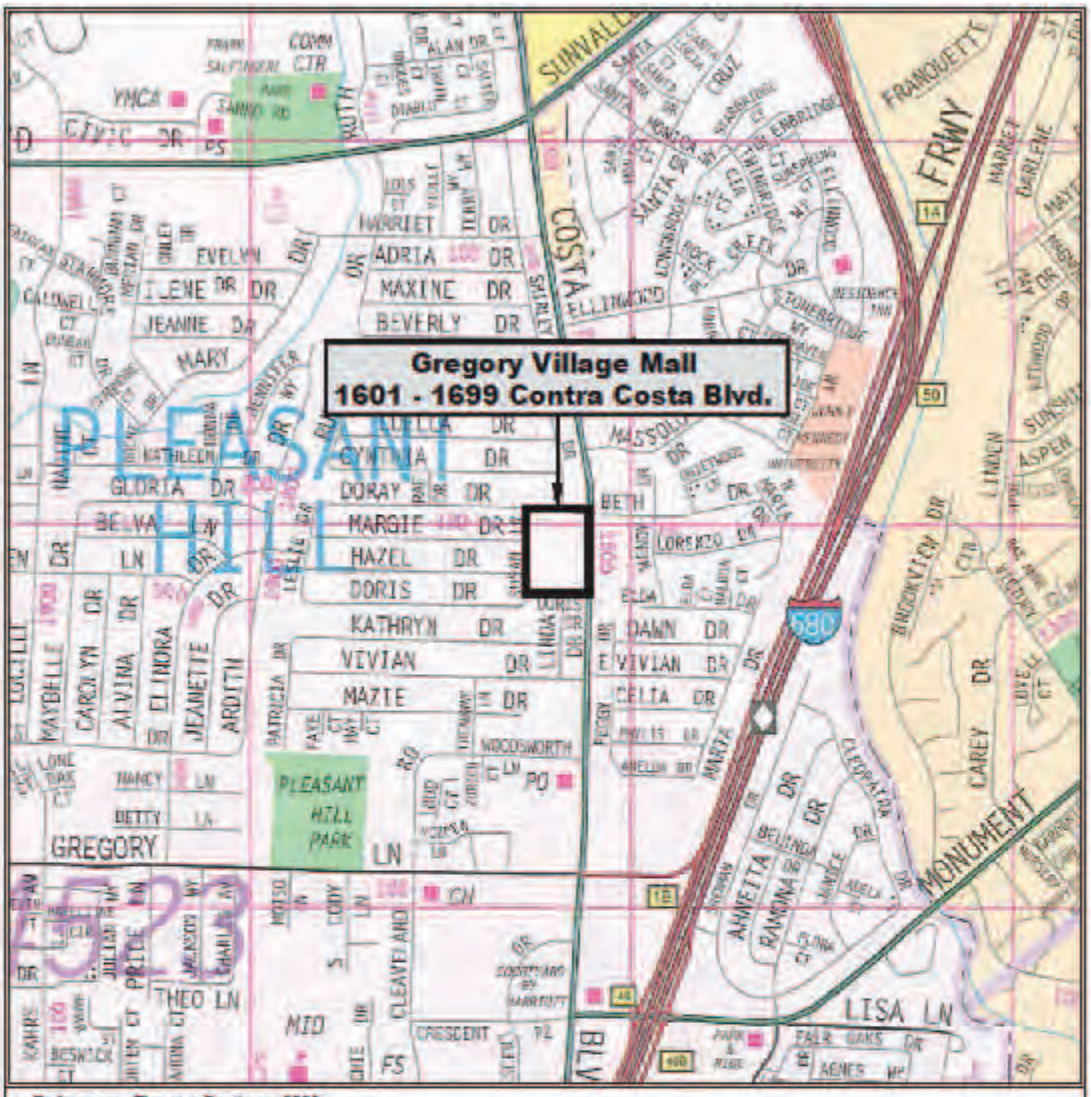
Attachments

Attachment A: Site Map
Attachment B: Self-Monitoring Program

Attachment A

Site Map



Reference: Thomas Brothers, 2003.

Notes:

1. All locations are approximate.

N

0 1,000 2,000

(Approximate Scale in Feet)

Erler & Kalinowski, Inc.

Site Location Map

Gregory Village Mall
Pleasant Hill, CA
April 2009
EKI A80038.00

Figure 1

Attachment B

Self-Monitoring Program

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

SELF-MONITORING PROGRAM for:

GREGORY VILLAGE PARTNERS, L.P.,
VILLAGE BUILDERS, L.P.,
JOSEPH J. LEE,
GRACE M. LEE,
ALAN CHOI,
KAUEN CHOI,
WILLIAM O'MALLEY, and
FLOYD G. TAYLOR

for the property located at:

1643 CONTRA COSTA BOULEVARD
PLEASANT HILL, CONTRA COSTA COUNTY

1. **Authority and Purpose**: The Regional Water Board requests the technical reports required in this Self-Monitoring Program (SMP) pursuant to Water Code sections 13267 and 13304. This Self-Monitoring Program is intended to document compliance with Regional Water Board Order No. R2-2014-XXX (Site Cleanup Requirements).

2. **Monitoring**: The Dischargers shall measure groundwater elevations quarterly in all monitoring wells, and shall collect and analyze representative samples of groundwater according to the following schedule:

Well #	Sampling Frequency	Analyses	Well #	Sampling Frequency	Analyses
MW-1	A	8260B	MW-7	SA	8260B
MW-2	A	8260B	MW-8	SA	8260B
MW-3	SA	8260B	MW-9	SA	8260B
MW-4	SA	8260B	MW-10	SA	8260B
MW-5	A	8260B	MW-11	SA	8260B
MW-6	A	8260B			

Key: SA = Semi-Annually
8260B = EPA Method 8260B or equivalent
A = Annually

The Dischargers shall sample any new monitoring or extraction wells quarterly and analyze groundwater samples for the same constituents as shown in the above table. The Dischargers may propose changes in the above table; any proposed changes are subject to Executive Officer approval.

3. **Semi-Annual and Annual Monitoring Reports**: The Dischargers shall submit semi-annual monitoring reports to the Regional Water Board no later than 45 days following the sampling event. The reports shall include:

   a. Transmittal Letter: The transmittal letter shall discuss any violations during the reporting period and actions taken or planned to correct the problem. The letter shall be signed by the Discharger's principal executive officer or his/her duly authorized representative, and shall include a statement by the official, under penalty of perjury, that the report is true and correct to the best of the official's knowledge.

   b. Groundwater Elevations: Groundwater elevation data shall be presented in tabular form, and a groundwater elevation map shall be prepared for each monitored water-bearing zone. Historical groundwater elevations shall be included in the fourth quarterly report each year.

   c. Groundwater Analyses: Groundwater sampling data shall be presented in tabular form, and a map shall be prepared that includes the analytical data for one or more key contaminants for each monitored water-bearing zone, as appropriate. The report shall indicate the analytical method used, detection limits obtained for each reported constituent, and a summary of QA/QC data. Historical groundwater sampling results shall be included in the fourth quarterly report each year. The report shall describe any significant increases in contaminant concentrations since the last report, and any measures proposed to address the increases. Supporting data, such as lab data sheets, need not be included (however, see record keeping - below).

   d. Groundwater Extraction: If applicable, the report shall include groundwater extraction results in tabular form, for each extraction well and for the Site as a whole, expressed in gallons per minute and total groundwater volume for the quarter. The report shall also include contaminant removal results, from groundwater extraction wells and from other remediation systems (e.g., soil vapor extraction), expressed in units of chemical mass per day and mass for the quarter. Historical mass removal results shall be included in the fourth quarterly report each year.

   e. Status Report: The quarterly report shall describe relevant work completed during the reporting period (e.g., site investigation, interim remedial measures) and work planned for the following quarter.

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4. **Violation Reports**: If the Dischargers violate requirements in the Site Cleanup Requirements, then the Dischargers shall notify the Regional Board office by telephone as soon as practicable once the Dischargers have knowledge of the violation. Regional Water Board staff may, depending on violation severity, require the Dischargers to submit a separate technical report on the violation within five working days of telephone notification.

5. **Other Reports**: The Dischargers shall notify the Regional Water Board in writing prior to any Site activities, such as construction or underground tank removal, which have the potential to cause further migration of contaminants or which would provide new opportunities for site investigation.

6. **Record Keeping**: The Dischargers or their agents shall retain data generated for the above reports, including lab results and QA/QC data, for a minimum of six years after origination and shall make them available to the Regional Water Board upon request. The six-year period of retention shall be extended during the course of any unresolved litigation regarding this discharge or when requested by the Regional Water Board.

7. **SMP Revisions**: Revisions to this SMP may be ordered by the Executive Officer, either on his/her own initiative or at the request of the Dischargers. Prior to making SMP revisions, the Executive Officer will consider the burden, including costs, of associated self-monitoring reports relative to the benefits to be obtained from these reports.

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CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

TENTATIVE ORDER

ADOPTION OF INITIAL SITE CLEANUP REQUIREMENTS for:

CHEVRON U.S.A. INC.,
MB ENTERPRISES, INC.,
PHILIP M. LEHRMAN,
JANE A. LEHRMAN, and
MARJORIE P. ROBINSON

for the property located at:

1705 CONTRA COSTA BOULEVARD
PLEASANT HILL, CONTRA COSTA COUNTY

The California Regional Water Quality Control Board, San Francisco Bay Region (hereinafter "Regional Water Board"), finds that:

1. **Site Location and Description**: The 0.48-acre property (Assessor's Parcel No. 150-103-016-5) is a rectangular-shaped, commercial parcel (the "Site"). The Site is located in the Gregory Gardens area of Pleasant Hill, California, and is currently developed with a Chevron-branded gasoline service station. The Site is bounded by Contra Costa Boulevard to the east, Doris Drive to the north, Linda Drive to the west, and a parking lot and commercial building to the south. The Gregory Village Shopping Center and its main parking lot are located directly north of Doris Drive.

   Site improvements include a small station/convenience store, car wash, three underground storage tanks ("USTs") for automotive fuels, product dispensers and underground piping, underground pavements and landscape areas. A dry cleaner once occupied the southern portion of the Site.

2. **Site History**: An automotive fueling facility has existed on the northern parcel for over 60 years. Standard Oil operated on the northern parcel from 1950 until 1977. The successor to Standard Oil, Chevron U.S.A. Inc. (herein referred to as "Chevron"), operated at the Site from 1977 until 2003. Automotive repairs were undertaken on the Site from approximately 1950 to 1987.

   In 1971, two commercial parcels, a northern lot at 1705 Contra Costa Boulevard (Assessor's Parcel No. 150-103-01) and a southern lot at 1709 Contra Costa Boulevard (Assessor's Parcel No. 103-012-012) were merged to form one parcel, which was then split to create a larger northern parcel to facilitate the construction of an automotive maintenance and repair building (constructed in 1972). Both of these properties were owned jointly by the Lehrmans and Robinsons between 1965 and late 1986. A dry cleaner

had reportedly operated at 1709 Contra Costa Boulevard since the mid-1950s. According to information provided by the Contra Costa County Assessor's office, prior to the construction of the new service station building in 1972, the common (central) property line between 1705 and 1709 Contra Costa Boulevard was shifted to the south approximately 35 feet to create a bigger lot. The southern part of the new building, along with a steel waste oil UST, were then located in a section over the original dry cleaner property.

In late December 1986, Chevron purchased both 1705 and 1709 Contra Costa Boulevard, and sometime in 1987 merged the two lots into one parcel. According to available building permits and inspection reports, by late 1987, the former dry cleaner building had been removed, and in early 1988 Chevron constructed the car wash. Chevron sold the Site in March 2003 to MB Enterprises, Inc., the current property owner and gas station operator.

Unauthorized releases of volatile organic compounds (VOCs) and related constituents, including chlorinated volatile organic compounds (CVOCs), chiefly tetrachloroethylene (PCE) and trichloroethylene (TCE), and various petroleum hydrocarbons (e.g., benzene, toluene, ethylbenzene, xylenes, etc.), were documented at the Site, mainly from former leaking USTs. It is common knowledge that PCE and TCE have been used at automotive repair stations for many years to clean brakes, carburetors, and fuel injection systems and to degrease engines and other parts, and oftentimes USTs were used to store waste oil and related products.[1] [2] [3] PCE is also commonly associated with dry cleaners.

Land Ownership: According to information provided by Chevron, the Site was owned by several different individuals and/or businesses since about 1950, as follows:

<u>1950 to 1960</u>

- Gregory Village, Inc. (a business that no longer exists with no agent for service of process)

<u>1960 to 1986</u>

- Phil Heraty Organization (a business that no longer exists with no agent for service of process)
- Philip and Jane Lehrman
- Ned and Marjorie P. Robinson (Mr. Robinson is deceased)
- Merle D. Hall Company (no clear evidence of property ownership)
- Max W. Parker (no clear evidence of property ownership)

[1] USEPA, November 1993, Economic Impact Analysis of the Halogenated Solvent Cleaning NESHAP, EPA-453/D-93-058.

[2] State of California Environmental Protection Agency/Air Resources Board, June 1997, Status Report, Perchloroethylene Needs Assessment for Automotive Consumer Products.

[3] State of California Environmental Protection Agency, November 2006, Automotive Aerosol Cleaning Products: Low-VOC, Low Toxicity Alternatives, Report prepared by Institute for Research and Technical Assistance for the Department of Toxic Substances Control and City of Santa Monica.

December 1986 to March 2003

- Chevron U.S.A. Inc.

March 2003 to Present

- MB Enterprises, Inc. (current property owner and gas station operator)

3. **Named Dischargers**: Philip M. Lehrman, Jane A. Lehrman, and Marjorie P. Robinson are named as dischargers because they owned the entire property during the time when CVOCs were discharged, had knowledge of the discharge and/or the activities that caused the discharge, and had the legal ability to prevent the discharge.

   Gregory Village, Inc. and Phil Heraty Organization are not being named as dischargers because these businesses no longer exist, and the California Secretary of State has no record for an agent for service of process on file for either company. Merle D. Hall Company and Max W. Parker are not being named as dischargers because there is no clear evidence of their ownership of Site 2.

   Chevron is named as a discharger with respect to the discharge and migration of CVOCs from a former waste oil tank and the former dry cleaner, both located on the Site. First, with respect to CVOC releases from a former on-Site leaking waste oil UST, Chevron is named as a discharger because of substantial evidence that it discharged CVOCs to soil and groundwater at the Site. This evidence includes Standard Oil/Chevron's operation of the waste oil UST for many years, and the pattern of CVOC and petroleum contamination subsequently detected in the vicinity of the former waste oil UST. As of at least 1986, Chevron knew of the discharge or the activities that caused the discharge and had the legal ability to prevent the discharge.

   Second, with respect to CVOC releases from the former on-Site dry cleaner, Chevron is a discharger because it owned the property during the time of a discharge of CVOCs to soil and groundwater, had knowledge of the discharge and/or the activities that caused the discharge, and had the legal ability to control the discharge.

   MB Enterprises, Inc. is named as a discharger because it is the current owner of the property on which there is an ongoing discharge of pollutants, has knowledge of the discharge, and the ability to control the discharge.

   Regional Water Board staff was unable to locate a former operator of the dry cleaner, Charles Grant Bostwick and Joanne Bostwick. Regional Water Board staff understands that former operators of the dry cleaner, Morris and Genoise Jorgenson, are also deceased.

   If additional information is submitted indicating other parties caused or permitted any waste to be discharged on the Site where it entered or could have entered waters of the State, the Regional Water Board will consider adding those parties to this order. Collectively the above identified responsible parties are referred as Dischargers.

4. **Regulatory Status**: The Site is currently not subject to a Regional Water Board order.

5. **Site Hydrogeology**: The Site is located within the Ygnacio Valley Groundwater Basin, a structural depression between the Berkeley Hills to the west and the Diablo Range to the east. The basin sediments consist of thick Quaternary-age alluvial and floodplain deposits, generally comprised of unconsolidated to partially consolidated, discontinuous layers of silt, clay, sand, and gravel. The local topography is gently tilted to the north and northwest.

   From June 1989 through May 2013, groundwater levels in various monitoring wells associated with the Site ranged from a low of approximately 20 feet below the ground surface (bgs) to a high of approximately six feet bgs. The lowest groundwater level recorded coincides with a time when Chevron was pumping and treating polluted groundwater. Groundwater flow direction in the shallow zone has been mainly to the north at an average gradient of approximately 0.005 feet per foot.

6. **Hydrology:** The closest major surface water bodies are Grayson Creek, located approximately 2,000 feet to the west, and Walnut Creek, located approximately 2,000 feet to the east. No municipal drinking water supply wells are known to exist within a two-mile radius of the site. Shallow "backyard" irrigation wells are common on residential parcels in Pleasant Hill, but a door-to-door domestic well survey has not been completed in the residential subdivision downgradient of the Site.

7. **Remedial Investigation**: Numerous soil, soil vapor, and groundwater samples collected and analyzed during approximately 26 years of environmental investigation and cleanup activities at the Site have detected a variety of chemicals, several of which are very toxic to human health. The data indicates CVOCs are present in groundwater at levels exceeding the maximum contaminant levels (MCLs) [4] beneath and downgradient (north and northwest) of the Site, and have likely commingled with another CVOC groundwater plume associated with the former P&K Cleaners location north of the Site

   Petroleum and chlorinated VOCs were detected in soil, soil vapor, and shallow groundwater within the boundaries of the Site, adjacent to the Site, and within the Gregory Village Shopping Center parcel downgradient of the Site.

   The Site was an open environmental case from 1986 to early 2005. Chevron indicated the Site did not pose a threat to human health, groundwater and the environment. Based on the findings and analysis in environmental assessment reports from Chevron, groundwater contamination appeared to be localized and adequately characterized. Chevron requested closure of the UST case. Based on the data presented, the Regional Water Board concurred and closed the fuel UST case on January 14, 2005. All groundwater monitoring wells, with the exception of off-Site well EA-5, were destroyed in March 2005.

   An October 31, 2005, letter from Cambria Environmental Technology, Inc. about the destruction of monitoring wells stated, *As part of approved case closure, one sentinel well, EA-5, will remain active and sampled annually for petroleum hydrocarbons and halogenated volatile organic compounds.* EA-5 has been monitored on an annual basis for

[4] The drinking water standard for PCE and TCE, known as the maximum contaminant level, or MCL, is 5 µg/L.

the past eight years. The maximum historic PCE and TCE detections in groundwater samples from off-Site well EA-5 have been 52 µg/L, and 84 µg/L, respectively.[5]

The maximum detected concentrations of contaminants of potential concern are listed by medium in the table below:

Analyte	Maximum Concentration Detected		
	Groundwater (µg/L)	Soil (mg/kg)	Soil Gas (µg/m^3)
PCE	5,000	20	3,247,700
TCE	3,600	1.4	2,100,000
cis-1,2-DCE	2,900	0.45	410,000
vinyl chloride	910	<48	<5,200
benzene	12,000	2.2	520,733
TPH-gasoline	110,000	80	916,667

The CVOC concentrations in groundwater are substantially above the drinking water standards (e.g., the Maximum Contaminant Level, or MCL, for PCE is 5 µg/L). The CVOC concentrations in soil vapor are well above risk-based screening levels (e.g., Regional Water Board's ESLs[6]) for potential vapor intrusion concerns at commercial facilities (e.g., ESL is 2,100 µg/m³), and pose a direct threat to indoor air.

The distribution and types of contaminants in groundwater downgradient of the Site generally mirror the contaminants found in soil, soil vapor and groundwater directly beneath the Site. The data demonstrates that CVOC concentrations in groundwater are generally higher near the former steel waste oil UST, then generally decrease in concentrations as the plume expanded to the north and attenuated, indicating the pollution in groundwater migrated and likely commingled with the P&K Cleaners plume.

Nevertheless, there are several data gaps in regards to the vertical and lateral distribution of CVOCs in soil, soil vapor and groundwater, both on-Site and off-Site. Additional soil, soil vapor and groundwater characterization studies, and a human health risk assessment, are warranted.

8. **Interim Remedial Measures**: The first-generation fueling facilities were removed and replaced in 1971-1972. The second-generation fueling facilities were removed and replaced in 1987-1988. A steel waste oil UST installed in 1972 was removed in 1986. There are no records to indicate contaminated soils were excavated and hauled away during any of the waste oil UST removal and replacement activities.

   Between August 1991 and July 1996, pumping, treatment, and permitted disposal of contaminated groundwater was conducted at the Site as an interim remedial measure.

[5] These concentrations are much lower than on-Site concentrations of CVOCs and in groundwater samples collected more recently and to the west of EA-5 (as discussed below), indicating EA-5 is probably not located in an appropriate area to function as a "sentinel" well.

[6] See Regional Water Board webpage: http://www.waterboards.ca.gov/rwqcb2/water_issues/programs/esl.shtml

Approximately 1,900,000 gallons of polluted groundwater were extracted, treated, and discharged to the sanitary sewer system. Chevron reported removal of approximately 12 pounds of Total Petroleum Hydrocarbons and 41 pounds of CVOCs. Chevron reported that the pump and treat system did little to reduce the high concentrations of CVOCs dissolved in groundwater.

In 1995, as part of site renovation activities, trench liners, pea gravel, and product piping were removed, and shallow soil contaminated with petroleum hydrocarbons was excavated to approximately three feet bgs.

Additional interim remedial measures likely will be necessary to reduce the threat to water quality, public health, and the environment posed by the past chemical releases, and to provide a technical rationale behind the selection and design of final remedial measures.

9. **Nearby Sites**: A commercial property to the north, 1601-1699 Contra Costa Boulevard and currently the Gregory Village Shopping Center, is directly downgradient of the Site. A dry cleaner that used PCE in their operations existed in one of the tenant suites within the plaza (with a property address of 1643 Contra Costa Boulevard). CVOC releases from this former dry cleaner are well-documented (Regional Water Board Case No. 07S0132). This property is the subject of another proposed order directed to Gregory Village Partners, L.P., and others.

   A former Unocal gas station located at 1690 Contra Costa Boulevard is cross-gradient and approximately 150 feet northeast of the Site. This site, now a McDonald's restaurant, had confirmed releases of petroleum hydrocarbons and fuel oxygenates to soil and groundwater. A waste oil UST was removed from the site in 2000. The case (Regional Water Board Case No. 07-0450) was closed on September 27, 2010. There is insufficient evidence to determine whether MTBE and other fuel-related constituents from this former gas station property have commingled with contamination at the Site.

   A former gas station (now a Taco Bell restaurant), located at 1700 Contra Costa Boulevard, is cross-gradient and approximately 100 feet east of the Site., This property had historic releases of petroleum hydrocarbons. A waste oil UST was removed from the site in the past (date unknown). The case (Regional Water Board Case No. 07-0873) was closed on May 20, 2008. There is insufficient evidence to determine whether fuel-related constituents from this property have commingled with contamination at the Site.

   Minor concentrations of CVOCs were detected in the groundwater beneath a former gas station at 1521-1529 Contra Costa Boulevard, approximately 600 feet north of the Site and upgradient of CVOC detections in soil vapor and groundwater in the residential neighborhood north of the Gregory Village Shopping Center. The property, which was an automotive service and fueling station until 1977, has an unknown chemical release history. The case (Regional Water Board Case No. 07-0893) is currently open. There is insufficient evidence to determine whether fuel-related constituents from this former gas station property have commingled with contamination at the Site or migrated beneath the adjacent residential neighborhood. Additional data will be necessary to confirm that CVOCs were not released during the historic service station operations.

Two other dry cleaners, located at 1946 Contra Costa Boulevard (07S0088; Former Dutch Girl Cleaners and currently the "Hosanna Cleaners") and 2001 Contra Costa Boulevard, are upgradient of the Site. The 07S0088 case is inactive and approximately 2,000 feet southeast of the Site. Because of the lateral distance between this property and the Site, it is unlikely that any PCE released on this property migrated in groundwater and commingled with the CVOC plume associated with the Site. The 2001 Contra Costa Boulevard property, currently PH Bargain Cleaners, is located approximately 1,300 feet to the south and is not listed as a case in the Water Board's records.

Former and current automotive maintenance facilities at 1855-1859 Contra Costa Boulevard are located approximately 650 feet upgradient (south) of the Site. CVOCs were released at this site. The case (Regional Water Board Case No. 07-0022) is open. There is insufficient evidence to determine whether fuel-related constituents from this property have commingled with contamination at the Site.

Three current and former paint shops - 1725 Contra Costa Boulevard, 1720 Linda Drive, and 1942 Linda Drive - are located upgradient of the Site. The 1725 Contra Costa Boulevard property, the former "Deen Pierce Paint Company (Case No. 07-0344 and closed on July 20, 1994), had a former UST which reportedly contained mineral spirits; the UST was removed on or about July 16, 1986. Regional Water Board staff does not have any information about the other two paint shops. There is insufficient evidence to determine whether constituents from these properties have commingled with contamination at the Site.

10. **Basin Plan**: The Water Quality Control Plan for the San Francisco Bay Basin (Basin Plan) is the Regional Water Board's master water quality control planning document. It designates beneficial uses and water quality objectives for waters of the State, including surface waters and groundwater, and also includes programs of implementation to achieve water quality objectives. The Basin Plan was duly adopted by the Regional Water Board and approved by the State Water Resources Control Board, U.S. EPA, and the Office of Administrative Law where required.

The potential beneficial uses of groundwater underlying and adjacent to the Site include:

a. Municipal and domestic water supply
b. Industrial process water supply
c. Industrial service water supply
d. Agricultural water supply

At present, there is no known use of the shallow groundwater zone underlying the Site and immediate area for the above purposes. The vertical extent of groundwater contamination is unknown, and a future vertical delineation study is warranted. Because the Regional Water Board has insufficient information regarding the actual use of groundwater in the vicinity of the Site, Task 1 includes a requirement to survey for sensitive receptors. Similarly, the extent to which the shallow groundwater zone is connected to lower zones is not well-defined, necessitating the requirement in Task 1 to study potential vertical conduits and preferential pathways.

11. **State Water Board Policies**: State Water Board Resolution No. 68-16, "Statement of Policy with Respect to Maintaining High Quality of Waters in California," applies to this discharge and requires attainment of background levels of water quality, or the highest level of water quality which is reasonable if background levels of water quality cannot be restored. Cleanup levels other than background shall be consistent with the maximum benefit to the people of the State, not unreasonably affect present and anticipated beneficial uses of such water, and not result in exceedance of applicable water quality objectives. This order and its requirements are consistent with Resolution No. 68-16.

    State Water Board Resolution No. 92-49, "Policies and Procedures for Investigation and Cleanup and Abatement of Discharges Under Water Code Section 13304," applies to this discharge. This order and its requirements are consistent with the provisions of Resolution No. 92-49, as amended.

12. **Other Board Policy**: Regional Water Board Resolution No. 89-39, "Sources of Drinking Water," defines potential sources of drinking water to include all groundwater in the region, with limited exceptions for areas of high TDS, low yield, or naturally-high contaminant levels. The groundwater at this Site is a potential source of drinking water.

13. **Preliminary Cleanup Goals**: The Dischargers will need to make assumptions about future cleanup standards for soil, soil vapor, and groundwater in order to determine the necessary extent of remedial investigation, interim remedial actions, and the draft remedial action plan. Pending the establishment of site-specific cleanup standards, the following preliminary cleanup goals shall be used for these purposes:

    a. Groundwater: Applicable water quality objectives (e.g., lower of primary (toxicity) and secondary (taste and odor) maximum contaminant levels, or MCLs) or, in the absence of a chemical-specific objective, equivalent drinking water levels based on toxicity and taste and odor concerns.

    b. Soil and Soil Vapor: Applicable screening levels as compiled in the Regional Water Board's draft Environmental Screening Levels (ESLs) document or its equivalent. Soil and soil vapor screening levels are intended to address a full range of exposure pathways, including direct exposure, indoor air impacts, nuisance, and leaching to groundwater. For purposes of this subsection, the Dischargers must assume that groundwater is a potential source of drinking water.

14. **Basis for 13267 and 13304 Order**: Water Code section 13267 authorizes the Regional Water Board to require a person who has discharged, discharges or is suspected of having discharged or discharging, to furnish technical or monitoring program reports. The burden of the reports required by this Order bears a reasonable relationship to the need for the report and the benefits to be obtained (to characterize the extent of contamination, the associated risks to human health and the environment, and document success of remediation efforts).

Water Code section 13304 authorizes the Regional Water Board to issue orders requiring dischargers to cleanup and abate waste where the dischargers have caused or permitted waste to be discharged or deposited where it is or probably will be discharged into waters of the State and creates or threatens to create a condition of pollution or nuisance. As discussed above, each of the dischargers has caused or permitted waste to be discharged or deposited, causing contamination of groundwater. Contamination of groundwater creates and threatens to create conditions of pollution and nuisance.

15. **Cost Recovery**: Pursuant to Water Code section 13304, the Dischargers are hereby notified that the Regional Water Board is entitled to, and may seek reimbursement for, all reasonable costs actually incurred by the Regional Water Board to investigate unauthorized discharges of waste and to oversee cleanup of such waste, abatement of the effects thereof, or other remedial action, required by this order.

16. **California Environmental Quality Act (CEQA)**: This action is an order to enforce the laws and regulations administered by the Regional Water Board. As such, this action is categorically exempt from the provisions of CEQA pursuant to Title 14 of the California Code of Regulations, section 15321.

17. **Safe Drinking Water Act:** It is the policy of the State of California that every human being has the right to safe, clean, affordable, and accessible water adequate for human consumption, cooking, and sanitary purposes. This order promotes that policy by requiring discharges to meet the lower of primary and secondary maximum contaminant levels designed to protect human health and ensure that water is safe for domestic use.

18. **Notification**: The Regional Water Board has notified the Dischargers and all interested agencies and persons of its intent under Water Code section 13304 to prescribe Site Cleanup Requirements for the discharge, and has provided them with an opportunity to submit their written comments.

19. **Public Hearing**: The Regional Water Board, at a public meeting, heard and considered all comments pertaining to the proposed site cleanup requirement for the Site.

IT IS HEREBY ORDERED, pursuant to sections 13267 and 13304 of the Water Code, that the Dischargers (or its agents, successors, or assigns) shall investigate, cleanup and abate the effects described in the above findings as follows:

A. PROHIBITIONS

1. The discharge of wastes or hazardous substances in a manner which will degrade water quality or adversely affect beneficial uses of waters of the State is prohibited.

2. Further significant migration of wastes or hazardous substances through subsurface transport to waters of the State is prohibited.

3. Activities associated with the subsurface investigation and cleanup which will cause significant adverse migration of wastes or hazardous substances are prohibited.

B. TASKS

1. COMPLETION OF SENSITIVE RECEPTOR SURVEY AND CONDUIT STUDY

COMPLIANCE DATE: November 7, 2014

Submit a technical report acceptable to the Executive Officer documenting completion of an up-to-date sensitive receptor survey and a conduit study. To evaluate the potential impact of the contamination on human health and the environment, the locations of sensitive receptors, including water supply and irrigation wells, shall be identified. A conduit study is needed to evaluate the role of subsurface utilities in the migration or accumulation of CVOCs in the subsurface.

2. PUBLIC PARTICIPATION PLAN

COMPLIANCE DATE: November 7, 2014
Submit a technical report acceptable to the Executive Officer to ensure adequate public participation will be undertaken at key steps in the remedial action process.

3. REMEDIAL INVESTIGATION/DATA GAP WORK PLAN

COMPLIANCE DATE: December 12, 2014

Submit a work plan acceptable to the Executive Officer to further evaluate all source areas and to define the vertical and lateral extent of CVOCs in soil, soil vapor, and groundwater. The work plan shall specify investigation methods and a proposed time schedule.

4. COMPLETION OF REMEDIAL INVESTIGATION

COMPLIANCE DATE: 90 Days after Executive Officer approval of Task 3. Work Plan

Submit a technical report acceptable to the Executive Officer documenting completion of necessary tasks identified in the Task 2 work plan. The technical report shall define the vertical and lateral extent of pollution down to concentrations at or below typical cleanup standards for soil, soil vapor, and groundwater.

5. COMPLETION OF HUMAN HEALTH RISK ASSESSMENT

COMPLIANCE DATE: 90 Days after Executive Officer approval of Task 4.

Submit a technical report acceptable to the Executive Officer documenting the completion of an appropriate human health risk assessment.

6. DRAFT REMEDIAL ACTION PLAN INCLUDING DRAFT CLEANUP STANDARDS

COMPLIANCE DATE: 90 Days after Executive Officer approval of Task 5.

Submit a technical report acceptable to the Executive Officer containing:

a. Results of the remedial investigation
b. Evaluation of the installed interim remedial actions measures
c. Feasibility study evaluating alternative final remedial actions
d. Risk assessment for current and post-cleanup exposures
e. Recommended final remedial actions and cleanup standards
f. Implementation tasks and time schedule

Item c shall include projections of cost, effectiveness, benefits, and impact on public health, welfare, and the environment of each alternative action.

Items a through c shall be consistent with the guidance provided by Subpart F of the National Oil and Hazardous Substances Pollution Contingency Plan (40 CFR Part 300), CERCLA guidance documents with respect to remedial investigations and feasibility studies, Health and Safety Code section 25356.1(c), and State Water Board Resolution No. 92-49 as amended ("Policies and Procedures for Investigation and Cleanup and Abatement of Discharges Under Water Code Section 13304").

Item e shall consider the preliminary cleanup goals for soil and groundwater identified in finding 13 and shall address the attainability of background levels of water quality (see finding 11).

7. DELAYED COMPLIANCE

If the Dischargers are delayed, interrupted, or prevented from meeting one or more of the completion dates specified for the above tasks, the Dischargers shall promptly notify the Executive Officer and the Regional Water Board may consider revision to this Order.

C. PROVISIONS

1. **No Nuisance**: The storage, handling, treatment, or disposal of polluted soil or groundwater shall not create a nuisance as defined in Water Code section 13050(m).

2. **Good Operations and Maintenance (O&M)**: The Dischargers shall maintain in good working order and operate as efficiently as possible any facility or control system installed to achieve compliance with the requirements of this Order.

3. **Cost Recovery**: The Dischargers are liable, pursuant to Water Code section 13304, to the Regional Water Board for all reasonable costs actually incurred by the Regional Water Board to investigate unauthorized discharges of waste and to oversee cleanup of

such waste, abatement of the effects thereof, or other remedial action, required by this Order. If the site addressed by this Order is enrolled in a State Water Board-managed reimbursement program, reimbursement shall be made pursuant to this Order and according to the procedures established in that program. Any disputes raised by the Dischargers over reimbursement amounts or methods used in that program shall be consistent with the dispute resolution procedures for that program.

4. **Access to Site and Records**: In accordance with Water Code section 13267(c), the Dischargers shall permit the Regional Water Board or its authorized representative:

    a. Entry upon premises in which any pollution source exists, or may potentially exist, or in which any required records are kept, which are relevant to this Order.

    b. Access to copy any records required to be kept under the requirements of this Order.

    c. Inspection of any monitoring or remediation facilities installed in response to this Order.

    d. Sampling of any groundwater or soil which is accessible, or may become accessible, as part of any investigation or remedial action program undertaken by the Dischargers.

5. **Self-Monitoring Program**: The Dischargers shall comply with the Self-Monitoring Program as may be established by the Executive Officer.

6. **Contractor/Consultant Qualifications**: All technical documents shall be signed by and stamped with the seal of a California registered geologist, a California certified engineering geologist, or a California registered civil engineer.

7. **Lab Qualifications**: All samples shall be analyzed by State-certified laboratories or laboratories accepted by the Regional Water Board using approved EPA methods for the type of analysis to be performed. All laboratories shall maintain quality assurance/quality control records for Regional Water Board review. This provision does not apply to analyses that can only reasonably be performed on-Site (e.g., temperature).

8. **Document Distribution**: Copies of all correspondence, technical reports, and other documents pertaining to compliance with this Order shall be provided to the following agencies:

    - Regional Water Quality Control Board
    - City of Pleasant Hill
    - County of Contra Costa

    The Executive Officer may modify this distribution list as needed.

All reports submitted pursuant to this Order shall be submitted as electronic files in PDF format. All electronic files shall be submitted via the State Water Board's Geotracker website, email (only if the file size is less than 3 megabytes), or on CD.

9. **Reporting of Changed Owner or Operator**: The Dischargers shall file a technical report on any changes in Site occupancy or ownership associated with the property described in this Order.

10. **Reporting of Hazardous Substance Release**: If any hazardous substance is discharged in or on any waters of the State, or discharged or deposited where it is, or probably will be, discharged in or on any waters of the State, the Dischargers shall report such discharge to the Regional Water Board by calling (510) 622-2369 during regular office hours (Monday through Friday, 8:00 AM to 5:00 PM).

    A written report shall be filed with the Regional Water Board within five working days. The report shall describe: the nature of the hazardous substance, estimated quantity involved, duration of incident, cause of release, estimated size of affected area, nature of effect, corrective actions taken or planned, schedule of corrective actions planned, and persons/agencies notified.

    This reporting is in addition to reporting to the Office of Emergency Services required pursuant to the Health and Safety Code.

11. **Periodic SCR Review**: The Regional Water Board will review this Order periodically and may revise it when necessary. The Dischargers may request revisions and upon review the Executive Officer may recommend that the Regional Water Board revise these requirements.

I, Bruce H. Wolfe, Executive Officer, do hereby certify that the foregoing is a full, true, and correct copy of an Order adopted by the California Regional Water Quality Control Board, San Francisco Bay Region, on _____.

_____
Bruce H. Wolfe
Executive Officer

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FAILURE TO COMPLY WITH THE REQUIREMENTS OF THIS ORDER MAY SUBJECT YOU TO ENFORCEMENT ACTION, INCLUDING BUT NOT LIMITED TO: IMPOSITION OF ADMINISTRATIVE CIVIL LIABILITY UNDER WATER CODE SECTIONS 13268 OR 13350, OR REFERRAL TO THE ATTORNEY GENERAL FOR INJUNCTIVE RELIEF OR CIVIL OR CRIMINAL LIABILITY

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Attachments
Attachment A: Site Map

Attachment A

Site Map

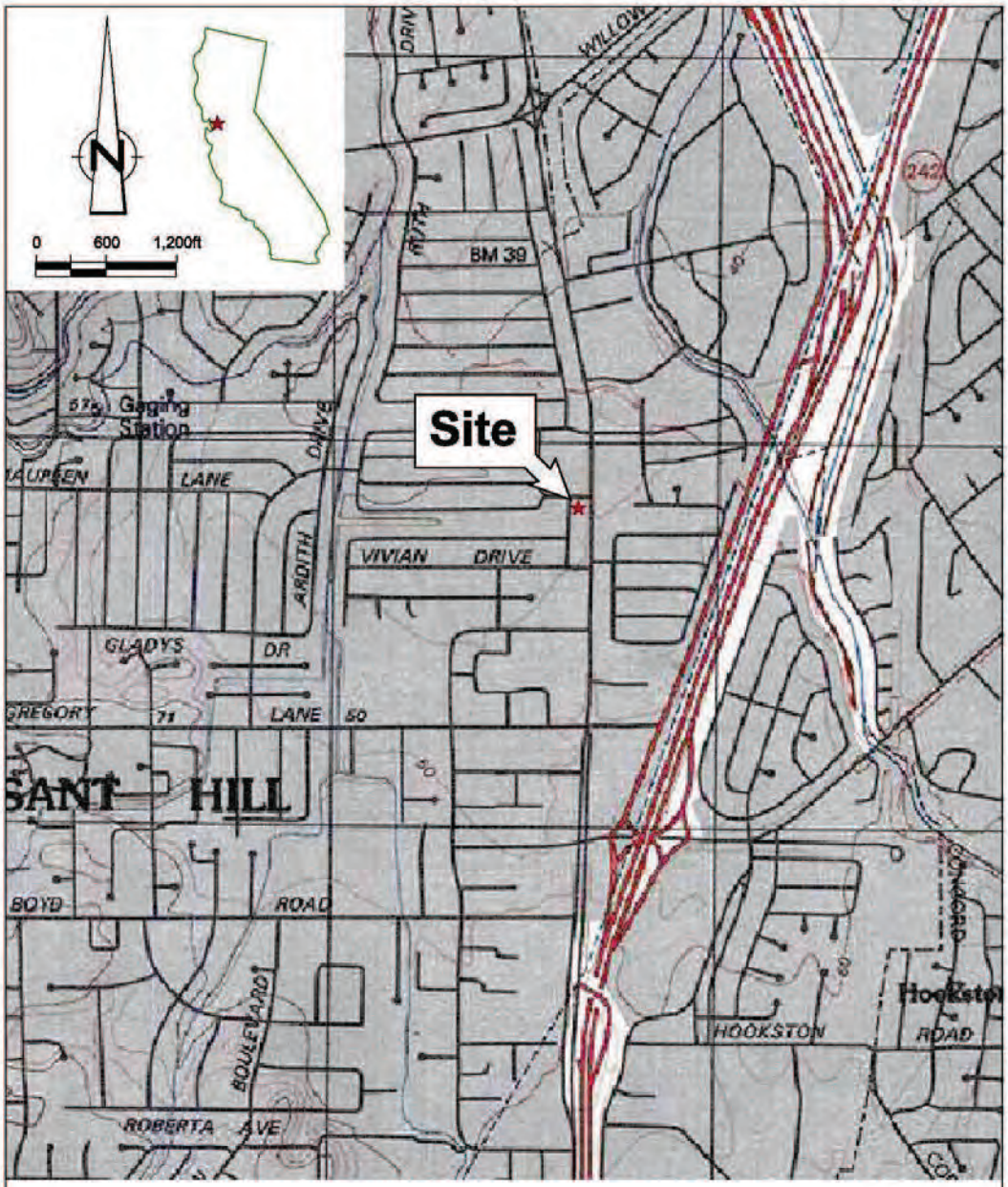


Figure 1

VICINITY MAP
CHEVRON SERVICE STATION 9-6817
1705 CONTRA COSTA BOULEVARD
Pleasant Hill, California

I:\CHEVRON\3117--\311741 9-6817 PLEASANT HILL\311741-FIGURES\311741_EM001-VMAP.DWG

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

July 2, 2014
File Nos. 07S0132 (KEB) and 07S0204 (KEB)

Cleanup Team Staff Report

Basis for Recommendation to Adopt Initial Site Cleanup Requirements Orders (SCRs) Naming:

Gregory Village Partners, L.P., Village Builders, L.P., Joseph J. Lee, Grace M. Lee, Alan Choi, Kauen Choi, Joseph William O'Malley, and Floyd G. Taylor as Dischargers for the real property located at 1643 Contra Costa Boulevard, Pleasant Hill, Contra Costa County (Site 1), and

Chevron U.S.A. Inc., MB Enterprises, Inc., Philip M. Lehrman, Jane A. Lehrman, and Marjorie P. Robinson as Dischargers for the real property located at 1705 Contra Costa Boulevard, Pleasant Hill, Contra Costa County (Site 2)

I. Summary

The Water Board Staff Cleanup Team (Staff) recommends that the Water Board adopt individual SCRs for Sites 1 and 2. This Staff Report provides the technical basis for the following assertions:

1. Chlorinated volatile organic compounds (CVOCs) were released from a former waste oil tank and a former dry cleaner at Site 2 (see Section III below).
2. Chevron is appropriately named as a discharger at Site 2, based on its prior ownership and operations (see Section IV below).
3. A CVOC groundwater plume from Site 2 has commingled with a different CVOC groundwater plume from Site 1 (see Section V below).
4. Central Contra Costa Sanitary District (CCCSD) should not be named as a discharger in either SCR (see Section VI below).

II. General Background

The Sites 1 and 2 are located about 500 feet apart in a commercial district of Pleasant Hill, Contra Costa County (Figures 1and 2). Staff has provided direct regulatory oversight of Site 1 since 2002 when Gregory Village Partners, L.P. (GVP) voluntarily enrolled in the Water Board's cost recovery program. GVP conducted site investigation and cleanup, and does not object to being named as a discharger in the SCR. Because both CVOCs and petroleum-related chemicals are present in groundwater beneath the eastern and southeastern areas of Site 1, GVP asked the Regional Water Board to issue a SCR for Site 2 naming Chevron and MB Enterprises, Inc. as dischargers. In addition, GVP and Chevron asserted that CCCSD should be named as a discharger in both SCRs.

Site 1 is a small suite located in the Gregory Village Shopping Center, a rectangular-shaped commercial parcel improved with a one-story building that was constructed in approximately 1950. The shopping center is bounded by Contra Costa Boulevard to the east, Doris Drive to the south, Doray Drive to the north, and single-family residential properties to the north and west. Based on soil, soil vapor, and groundwater analytical data, a dry cleaner at Site 1 released tetrachloroethylene (PCE) to the subsurface.

Site 2 is a rectangular-shaped parcel bounded by Contra Costa Boulevard to the east, Doris Drive to the north, Linda Drive to the west, and a parking lot and commercial building to the south. The main parking lot for the Gregory Village Shopping Center is located directly to the north of Doris Drive. Underground storage tanks (USTs) that leaked chemicals into the environment, along with a former dry cleaner, were once present on Site 2. Based on soil, soil vapor, and groundwater data, the subsurface beneath and downgradient of Site 2 is contaminated with multiple CVOCs (i.e., PCE, trichloroethylene or TCE, and the degradation compounds cis-1,2-Dichloroethene, trans-1,2-Dichloroethene, and vinyl chloride) and various petroleum constituents.

The historical maximum detections of critical CVOCs associated with both sites are listed in Table 1. Groundwater data indicates the CVOC plume from Site 2 has commingled with the CVOC plume from Site 1 (Figure 3).

III. Substantial Evidence of CVOC Releases from the Former Steel Waste Oil UST and Former Dry Cleaner at Site 2

There are two suspected sources of these compounds at the Site: the former dry cleaner and the former waste oil tank. PCE is the major dry cleaning solvent used in the United States (Reich 1979). TCE is only rarely used in dry cleaning but is frequently used in metal degreasing (Schneberger 1979; Kimbrough et al. 1985)." The evidence present below supports staff's assertion that unauthorized releases of several CVOCs, chiefly PCE (a common dry cleaning and automotive repair solvent) and trichloroethylene (TCE, a common metal degreaser and parts cleaner solvent), and various petroleum constituents (e.g., benzene, toluene, ethylbenzene, xylenes, MtBE, etc.), occurred at Site 2.

CVOC Release from Steel Waste Oil UST

An automotive fueling facility existed on the northern portion of Site 2 for over 60 years. Standard Oil, the predecessor of Chevron, operated from 1950 until 1977. Chevron operated at Site 2 from 1977 until 2003. Automotive repair work was conducted on Site 2 from approximately 1950 to 1987. In 1972, Standard Oil installed a 1,000-gallon steel waste oil UST at the time a large automotive repair and maintenance building was constructed at Site 2. A waste oil UST was used at Site 2 from 1972 to 1988.

Prior to the 1972 construction, the common (central) property line between 1705 and 1709 Contra Costa Boulevard was shifted to the south approximately 35 feet. The southern part of the new service station building, along with the steel waste oil UST, were positioned over a section of the former dry cleaner parcel. In late 1986, Chevron purchased the two

properties and merged them into a single parcel (the present-day 1705 Contra Costa Boulevard parcel).

In May 1986, fourteen years after the steel waste oil UST was installed, the UST was removed by Chevron and replaced with a double-walled, fiberglass waste oil UST. During the removal of the steel UST, the tank was severely damaged, and multiple holes were discovered. A soil sample collected beneath the tank pit, at a depth of eight feet, contained 11 mg/kg of "waste oil." In January 1988, the fiberglass waste oil UST was removed during a major reconstruction project and found to be in good condition, with no holes or other damage observed.

It is common knowledge that PCE and TCE were used at automotive repair and maintenance facilities to clean brakes, carburetors, and fuel injection systems, and to degrease engines and other parts.[1 2 3] USTs were commonly used to store waste oil and other chemicals by the automotive repair industry. Staff's conclusion that the contamination emanating from Site 2 comes from these sources is consistent with Chevron's consultant's data. A February 3, 1989, report from EA Engineering, Science, and Technology, Inc. (EA) to Chevron regarding Site 2 states "The chlorinated hydrocarbons detected at the Pleasant Hill site are tetrachloroethylene (PCE), trichloroethylene (TCE), cis-1,2-dichloroethylene (DCE), trans-1,2-dichloroethylene (also DCE), vinyl chloride (VC), chloromethane, methylene chloride, chloroform, and 1,2-dichloroethane.

Soil Data

High CVOC soil concentrations generally reflect a specific release point/area. Figures 4 and 7 show the maximum concentrations of PCE and TCE detected in various soil samples collected within and near the former steel waste oil UST.

A soil sample collected within the tank pit at 10 feet below grade in 1988 contained 0.2 mg/kg of PCE and 0.035 mg/kg of TCE. In December 2011, a soil sample collected at a depth of five feet within the former waste oil UST excavation from vapor probe boring VP-1 contained PCE and TCE at 1.2 mg/kg and 1.4 mg/kg, respectively. Another soil sample collected at a depth of 9.5 feet from boring CPT-13, which was also advanced adjacent to/within the former waste oil UST pit, contained PCE at 0.34 mg/kg and TCE at 0.21 mg/kg, respectively.

[1] USEPA, November 1993, Economic Impact Analysis of the Halogenated Solvent Cleaning NESHAP, EPA-453/D-93-058.

[2] State of California Environmental Protection Agency/Air Resources Board, June 1997, Status Report, Perchloroethylene Needs Assessment for Automotive Consumer Products.

[3] State of California Environmental Protection Agency, November 2006, Automotive Aerosol Cleaning Products: Low-VOC, Low Toxicity Alternatives, Report prepared by Institute for Research and Technical Assistance for the Department of Toxic Substances Control and City of Santa Monica.

For comparison, soil concentrations of 0.7 mg/kg for PCE and 0.46 mg/kg for TCE are sufficient to cause leaching to groundwater, according to this Regional Water Board's Environmental Screening Levels (ESLs).[4]

The soil data depicted on Figures 4 and 7 indicates a distinct CVOC release from the former steel waste oil UST.

Soil Vapor Data

High soil vapor concentrations generally reflect a specific release point/area. Figures 5 and 8 show the maximum concentrations of PCE and TCE detected in various soil vapor samples collected within and near the former steel waste oil UST.

In May 1988, very high concentrations of PCE (up to 3,247,500 µg/m³) and TCE (up to 109,500 µg/m³) were detected in a soil vapor sample collected from probe V10, which was advanced directly within the former waste oil UST pit. In contrast, the maximum PCE concentrations detected in V2 and V3, two 1988 soil vapor probes advanced about 25 feet north and 25 feet west of V10, were 40,800 µg/m³ and 900,000 µg/m³, respectively.

Soil vapor sampling conducted by Chevron in 2011 revealed the highest concentrations of PCE and TCE in soil vapor (e.g., 2,500,000 µg/m³ and 2,100,000 µg/m³, respectively), from VP-1, a soil vapor point installed less than 10 feet away from V10.

For comparison, this Regional Water Board's ESLs for the soil vapor to indoor air concern at commercial developments for PCE and TCE are 2,100 µg/m³ and 3,000 µg/m³, respectively.

The soil vapor data depicted on Figures 5 and 8 indicates a distinct CVOC release occurred from the former steel waste oil UST.

Groundwater Data

High groundwater concentrations generally reflect a specific release point/area. Figures 6 and 9 show the maximum concentrations of PCE and TCE detected in various groundwater samples collected within and near the former steel waste oil UST.

In December 1987-January 1988, approximately one year after Chevron purchased and merged the two properties into a single parcel, groundwater samples analyzed from on-Site monitoring well MW-C (located about 100 feet north of the former waste oil UST) detected PCE at 1,800 µg/L and TCE at 570 µg/L. In January 1989, PCE and TCE were detected in on-Site monitoring well EA-2, which was installed within the filled excavation of the former waste oil USTs, at < 0.5 µg/L and 1,700 µg/L. A February 1989 EA report stated "Well EA-2 was installed near SVCA point V10 (the location of the former waste oil tanks), the point of highest chlorinated hydrocarbons in the soil gas." A September 1989 EA report indicates a groundwater sample from EA-2 contained TCE at 2,700 µg/L, while the PCE concentration was < 25 µg/L. The 1989 groundwater data are additional

[4] See Regional Water Board webpage:
http://www.waterboards.ca.gov/sanfranciscobay/water_issues/programs/esl.shtml

supporting evidence that TCE was released at the location of the former steel waste oil UST.

A pump and treat remediation system was operated by Chevron for about five years (1991 to 1996) to mitigate the high concentrations of CVOCs and petroleum hydrocarbons. This interim remedial measure was designed to utilize monitoring well EA-2, the well installed within the former waste oil UST pit. However, well MW-D was later added to the treatment system due to the detection of separate-phase petroleum hydrocarbons or "free product" downgradient of the fuel USTs. During the extraction and treatment of polluted groundwater, the maximum influent concentrations of PCE and TCE were 6,000 µg/L and 1,300 µg/L, both from a sample collected on April 3, 1995. In the last influent groundwater sample collected on January 3, 1996, the concentrations of PCE and TCE were 2,000 µg/L and 750 µg/L, respectively.

In May 2003, a groundwater sample from EA-2 contained PCE, TCE, cis-1,2-DCE, and vinyl chloride at concentrations of 3,100 µg/L, 3,600 µg/L, 2,900 µg/L, and 81 µg/L, respectively. EA-2 was destroyed by Chevron in March 2005.

For comparison, this Regional Water Board's ESL for PCE and TCE where groundwater is considered a current or potential source of drinking water is 5 µg/L.

Based on the above information and the groundwater data depicted on Figures 6 and 9, Staff conclude that a distinct CVOC release from the former steel waste oil UST occurred.

CVOC Release from the Former Dry Cleaner

According to Chevron, a dry cleaner operated for 30 years at 1709 Contra Costa Boulevard (the southern part of Site 2), reportedly from 1956 until late 1986.

According to telephone books reviewed at the Pleasant Hill Public Library, a dry cleaning business operated on the former 1709 Contra Costa Boulevard property from at least 1962 through 1984. Telephone directories further provide evidence that One Hour Martinizing Cleaners operated at the Site in August 1961 and continued until at least late 1966. The concept to use PCE, a non-flammable solvent, in the dry cleaning business, was pioneered by chemist Henry Martin in the 1930s. It is common knowledge that One Hour Martinizing revolutionized the use of PCE in their dry cleaning machinery. PCE has been detected in the subsurface at various One Hour Martinizing franchises in the United States and California due to releases from leaking dry cleaning equipment, floor drains, and private sewer laterals.[5]

An August 1966 advertisement in a phone book included the words "ONE HOUR DRY CLEANING AT NO EXTRA CHARGE!" and "WE OPERATE OUR OWN CLEANING PLANT & SHIRT LAUNDRY." This notice confirms that dry cleaning actually occurred

[5] State Coalition for Remediation of Drycleaners: http://www.drycleancoalition.org/search/?search_text=One+Hour+Martinizing&go=Search This search page lists a subset of One Hour Martinizing sites located in the United States where PCE was used and released to soil and/or groundwater.

at Site 2; the business was not merely a "drop off" location. By 1970, the dry cleaner was named "Pleasant Hill One Hour Cleaners." A permit from the City of Pleasant Hill Building Department, dated August 17, 1971, describes proposed construction activities at 1709 Contra Costa Blvd. to consist of "REMODEL DRY CLEANERS." The renovation of the dry cleaner coincided with a major reconstruction project for the Standard Oil service station at 1705 Contra Costa Boulevard.

In 1980 and 1985, the dry cleaner was named "J's Pleasant Hill Cleaners." An undated, unsigned "LEASE AGREEMENT" provided by Chevron, reportedly covering the former dry cleaner parcel and covering a five year time period between September 1, 1981, and August 31, 1986, states "Lessees shall use the premises for a dry cleaning establishment …" The lease agreement contains the names of prior property owners, Ned and Marjorie P. Robinson and Philip M. Lehrman and Jane A. Lehrman, and the previous operators of the dry cleaner, Morris E. Jorgenson and Genoise M. Jorgenson. The November 1986 phone book contained no entry for the dry cleaner. A building permit application to Chevron for demolition of the dry cleaner building indicates the structure remained on-Site until December 1987.

As described below, there is evidence, mainly soil and groundwater data, that CVOCs were released at the location where a dry cleaner operated at Site 2. Several exploratory borings were advanced on the parcel, and soil and groundwater samples were found to contain PCE and related CVOCs that are typical degradation products of PCE in the environment (e.g., TCE, cis-1,2-DCE, and vinyl chloride).

Soil Data

High CVOC soil concentrations generally reflect a specific release point/area. As shown on Figure 4, the maximum detected concentration of PCE from a soil sample collected within the footprint of the former dry cleaner is 20 mg/kg, from boring CPT-14.

For comparison, soil concentrations of 0.7 mg/kg for PCE are sufficient to cause leaching to groundwater, according to this Regional Water Board's Environmental Screening Levels (ESLs).[6]

The soil data depicted on Figures 4 and 7 likely reflects a distinct CVOC release from the former dry cleaner.

Soil Vapor Data

High soil vapor concentrations generally reflect a specific release point/area. Figures 5 and 8 show the maximum concentrations of PCE and TCE detected in various soil vapor samples collected within and around the former dry cleaner.

In 1988 four soil vapor probes were installed on the former dry cleaner parcel. The maximum detected concentrations of PCE and TCE were 19,347 $\mu g/m^3$ and 1,095 $\mu g/m^3$, respectively, from vapor probe V1 located approximately 25 feet east of EA-2. These

[6] See Regional Water Board webpage:
http://www.waterboards.ca.gov/sanfranciscobay/water_issues/programs/esl.shtml

concentrations are significantly lower than the soil vapor samples collected adjacent to the former steel waste oil UST.

For comparison, this Regional Water Board's ESLs for the soil vapor to indoor air concern at commercial developments for PCE and TCE are 2,100 µg/m³ and 3,000 µg/m³, respectively.

Staff believes the western section of the previous building near soil boring CPT-14 is the area where the former dry cleaner equipment was present, however, no soil vapor samples have been collected in this area of Site 2. Nevertheless, the soil vapor data depicted on Figures 5 and 8 points to a distinct CVOC release from the former dry cleaner.

Groundwater

High groundwater concentrations generally reflect a specific release point/area. Figures 6 and 9 show the maximum concentrations of PCE and TCE detected in various groundwater samples collected within the former dry cleaner footprint. The maximum concentrations of PCE and TCE detected in groundwater were from samples collected and analyzed from CPT-14 were 630 µg/L and 8 µg/L, respectively.

The groundwater data depicted on Figures 6 and 9 generally indicates a separate and distinct CVOC release from the former dry cleaner on Site 2.

Based on the above information, Staff concludes that there is substantial evidence that CVOCs were released from the dry cleaner on Site 2.

No Substantial Evidence of Upgradient CVOC Source

Chevron suggested, without providing direct evidence, that an upgradient source, or sources, could be contributing to the CVOCs detected in the subsurface beneath Site 2. There is no direct evidence the CVOCs detected in soil, soil vapor and groundwater beneath and downgradient of Site 2 originated from an upgradient (off-Site) source. The adjacent upgradient property (1725 Contra Costa Boulevard), formerly the Dean Pierce Paint Company, has a long history of use as a paint manufacturer and supplier. A 1,000-gallon steel UST was removed from the property on July 16, 1986. The UST reportedly contained "mineral spirits." Several holes were noted in the UST after it was exhumed, and two soil samples contained low concentrations of mineral spirits (referred to in the records as "paint thinner") up to 18 mg/kg. The environmental case for the leaking UST was closed by the Contra Costa County Health Services Department on July 20, 1994. The concentrations of mineral spirits found on the adjacent site were not substantial enough to migrate to Site 2 and, indeed, soil and groundwater samples from Site 2 do not contain constituents that would be indicative of "mineral spirits" or "paint thinner."

Conclusion

Based on the detections of PCE and TCE in soil, soil vapor, and groundwater samples collected and analyzed over the past 28 years (Table 1), Staff conclude that both of these CVOCs were used and released as a result of historic automotive repair and dry cleaning activities at Site 2. PCE and TCE soil concentrations are high at the former steel waste oil

UST location, while only PCE soil concentrations are high at the former dry cleaner. This data are consistent with a release from the former steel waste oil UST.

The discharges of both PCE and TCE are a result of common industry-wide practices for dry cleaners and automotive repair stations that operated from the 1950s to the mid-1980s in the San Francisco Bay area.

IV. Basis for Naming Chevron Under the Water Code as a Discharger at Site 2

Water Code Section 13304(a) provides the standard for naming parties to cleanup orders. It states in part:

> *Any person who has discharged or discharges waste into the waters of this state in violation of any waste discharge requirement or other order or prohibition issued by a regional board or the state board, or who has caused or permitted, causes or permits, or threatens to cause or permit any waste to be discharged or deposited where it is, or probably will be, discharged into the waters of the state and creates, or threatens to create, a condition of pollution or nuisance, shall upon order of the regional board, clean up the waste or abate the effects of the waste, or, in the case of threatened pollution or nuisance, take other necessary remedial action, including, but not limited to, overseeing cleanup and abatement efforts.*

Staff recommend naming Chevron as a discharger at Site 2 because:

1. Chevron was the owner/operator of the former steel waste oil UST that discharged contaminants which have migrated into waters of the State; and,
2. Chevron was the former landowner where a dry cleaner operated and discharged contaminants which have migrated into waters of the State.

Chevron was the Owner/Operator of the Former Steel Waste Oil UST

Water Code section 13304 allows the Water Board to name an operator or former operator to a cleanup order if there is substantial evidence that it discharged pollutants to soil or groundwater during its tenure. Staff concludes that there is substantial evidence that CVOCs were released from the steel waste oil UST at Site 2 during Chevron's tenure.

From 1972 to 1988, Standard Oil and its successor Chevron owned and/or and operated at the portion of Site 2 where CVOC discharges from a steel waste oil UST occurred. There is substantial soil, soil vapor, and groundwater data which demonstrates the steel UST released CVOCs to the environment (see section III above).

Chevron was the Former Landowner Where a Dry Cleaner Operated

Precedential State Water Board orders provide the framework for naming former landowners to cleanup orders. A former landowner can be named to a cleanup order if it meets all of these three criteria:

1. Former landowner owned the property at the time of the discharge;
2. Former landowner had knowledge of the activities that resulted in the discharge;
3. Former landowner had the legal ability to prevent the discharge.

In this case, Chevron meets all three criteria above.

From December 31, 1986, to March 2003, Chevron owned the parcel where a dry cleaner previously operated, had knowledge of the activities that resulted in the release of CVOCs to the environment, and had the legal ability and technical knowledge to clean up the discharge and prevent the discharge from migrating.

Not only did Chevron have knowledge of CVOC contamination before they purchased Site 2 and during their ownership of Site 2, Chevron had the legal ability to conduct source removal, and characterize and remediate to the maximum extent feasible to prevent further migration of the CVOCs. Although Chevron may contest the source of the contaminants (former dry cleaner versus steel waste oil UST), or whether the discharge occurred during Chevron's ownership or occupancy, State Board Orders clarify that "an actual movement of waste from soils to groundwater and from contaminated to uncontaminated ground water at the site … is sufficient to constitute a 'discharge.'" (State Water Board Order 86-2). Given the shallow groundwater flow direction and gradient, and lack of any known subsurface barriers to CVOC migration, there is no question that the CVOC contamination Chevron discovered in 1986 continued to migrate or "discharge" during Chevron's ownership of Site 2.

Chevron had the legal ability to appropriately conduct remediation of CVOCs in soil and groundwater during their time of ownership to prevent the CVOCs from migrating beneath other properties. The interim groundwater pump and treat system installed by Chevron was not initiated in a timely manner (the system start-up occurred over four years after Chevron purchased Site 2), nor was the system effective in preventing off-Site plume migration.

Furthermore, Chevron was aware of a significant soil contamination problem at Site 2. Despite the high detections of PCE and TCE in shallow soil and soil vapor, no remediation efforts were undertaken by Chevron to reduce the mass of CVOCs in soil in the areas of the former steel waste oil UST or former dry cleaner. A fundamental tenet of proper site remediation is to conduct adequate source removal activities; such remediation was not conducted during Chevron's ownership of Site 2. As a result of deficient remedial efforts, CVOCs are currently present at concentrations well above risk-based standards, thereby posing a significant threat to human health and groundwater quality.

Previous UST Case Closure

Chevron may claim that the 2005 UST case closure precludes the Regional Water Board naming Chevron as a discharger now. The Regional Water Board's 2005 UST case closure at Site 2, however, was based on technical information available at the time. New information undermines the case closure rationale presented by Chevron. Therefore, the

previous case closure should not be used as a reason for excluding Chevron from the SCR issued for Site 2.

On September 13, 2004, Chevron issued a report to the Regional Water Board titled "Closure Request." The report concluded the extent of contamination had been adequately characterized as follows, "The subsurface impact has been defined to the degree necessary to determine if the site poses a threat to human health, the environment, or other sensitive nearby receptors."

Our January 14, 2005, the Regional Water Board issued a uniform case closure letter to Chevron Environmental Management Company (a subsidiary to Chevron) for the formerly leaking USTs at Site 2. As stated above, the case closure determination was based on Chevron's assertion that the extent of petroleum hydrocarbons and CVOCs in soil and groundwater had been adequately characterized, and that the residual chemicals did not pose a risk to human health, groundwater quality, and the environment. The Water Board's January 3, 2005, *Site Closure Summary* states, in part:

"Petroleum hydrocarbons and halogenated volatile organic compounds (HVOCs) will persist on the Site and into the public right-of-way of Linda Avenue, Dorris (sic) Drive and Contra Costa Boulevard. The petroleum hydrocarbons and HVOCs are stable, and both the petroleum hydrocarbons and HVOCs appear to be naturally attenuating, though the petroleum hydrocarbons are attenuating more rapidly."
"A site management plan will be maintained until the residual petroleum hydrocarbons and HVOCs no longer pose a threat. Currently, there appears to be not threat to public health, the environment or water resources. Future potential threats, though not expected, can be limited through implementation of a site management plan."

Based on data provided by Chevron, Staff believed the groundwater plume emanating from Site 2 was localized in extent, lay mainly beneath City streets, and did not extend to the north and northwest beneath the adjacent and downgradient Gregory Village Shopping Center. Additional new information clearly demonstrates the groundwater plume was not adequately characterized and, in fact, underlies the eastern part of the shopping center and commingles with a different CVOC plume associated with the former P&K Cleaners (Site 1).

In 2004, Chevron argued that "the site appears to present no significant risk to human health or the environment." The 2004 closure request included an evaluation of the postulated inhalation risk to workers within the existing service station building by using groundwater concentrations from an on-Site well (MW-C) and not the available historic soil vapor data. From their analysis, Chevron concluded "The constituents of concern are below the screening level applied by the RWQCB-SFBR to identify commercial risk."

In 2004-2005, vapor intrusion at dry cleaner CVOC release sites was not given a lot of regulatory attention. In 2011, the California Department of Toxic Substances Control issued vapor intrusion guidance which recommends lower indoor air and soil vapor screening levels for vapor intrusion and a rigorous process to evaluate and mitigate vapor intrusion. Similarly, the Regional Water Board lowered indoor air and soil vapor in 2013 ESLs. The current screening levels for CVOCs in soil vapor and groundwater are

dramatically exceeded at Site 2. High CVOC concentrations in soil vapor pose a significant risk to on-Site workers, building occupants within the Gregory Village Shopping Center, and other commercial and residential properties adjacent to and near Site 2 (and also near Site 1). For these reasons, the site meets the criteria for re-opening sites.

V. Evidence of Commingled CVOC Plume

There is evidence that the CVOC plume from Site 2 migrated in groundwater to the north and northwest and beneath the Gregory Village Shopping Center, and commingled with the CVOC plume associated with Site 1, which has migrated beneath a residential subdivision north of Site 1. This is important because in order to protect human health and groundwater quality, the different sources of the CVOC contamination must be cleaned up to appropriate levels. Oftentimes, commingled groundwater plumes are more spatially extensive and contain higher contaminant concentrations than a plume from a single source.

Figure 3 shows the maximum concentrations of PCE detected in groundwater for both Site 1 and Site 2. Evidence of a commingled plume includes the following:

- In 1997, during a due diligence investigation for GVP, CVOCs were detected in grab groundwater samples collected from multiple soil borings advanced upgradient and cross-gradient of Site 1. For example, PCE and TCE were detected in GS-3, a soil boring advanced about 25 feet upgradient/southeast of Site 1 at 830 µg\L and 240 µg\L. (see figure 3).

- PCE, TCE, and other CVOCs were detected in shallow groundwater beneath and adjacent to the hydraulically-upgradient Chevron gas station/former dry cleaner (1705 Contra Costa Boulevard), with detections of PCE up to 5,000 µg/L from an off-site groundwater sample collected in 1989. Prior to the 2005 destruction of groundwater monitoring wells by Chevron for the fuel UST case at Site 2, PCE, TCE, cis-1,2-DCE, and vinyl chloride were detected in groundwater samples at concentrations up to 3,100 µg/L, 3,600 µg/L, 2,900 µg/L, and 81 µg/L, respectively (see figure 3).

- On December 22, 2009, GVP advanced multiple borings and completed a grab groundwater investigation within the southeastern part of their property, downgradient of Site 2 and upgradient of Site 1. Several CVOCs (including PCE, TCE, cis-1,2-DCE, and trans-1,2-DCE), total petroleum hydrocarbons reported as gasoline (TPH-g), benzene, toluene, ethylbenzene and xylenes (the BTEX compounds), and MtBE, a gasoline additive, were detected in groundwater samples collected in the eastern main parking lot by Site 1 (see figure 3). Both the petroleum-related constituents and the CVOCs are consistent with the contaminants found in soil and groundwater beneath Site 2. The concentrations and distribution of these contaminants in groundwater are indicative of a plume that migrated off-Site from Site 2.

- TPH-g and MtBE (constituents related to automotive fuel releases), and several CVOCs, were detected in a shallow groundwater sample collected from CPT-1,

a boring approximately 75 feet southeast (upgradient) of Site 1 (see figure 3).and advanced by Chevron in 2011. The presence of TPH-g, MtBE, and CVOCs in shallow groundwater upgradient of Site 1 indicate these chemicals migrated in a north to northwesterly direction from Site 2.

VI. Central Contra Costa Sanitary District (CCCSD) is not a Discharger

In a standard evaluation of whether a party is a discharger, Regional Water Board Staff considers whether the party:

- owned the property where the discharge occurred;
- had knowledge of the discharge or activities that caused the discharge; and,
- had legal ability to prevent the discharge.

Based on the analysis presented below, Staff concludes that there is insufficient data to assert that a discharge from CCCSD's sewer lines resulted in the contamination at issue in the two SCRs.

Because of numerous policy considerations, as well as guidance from the California courts,[7] Regional Water Boards historically have not named sewer owners/operators as dischargers merely because they owned or operated a sewer system which released contamination. Staff is only aware of one instance in which a Regional Water Board named a sewer owner/operator as a discharger, and in that case there was evidence to support each of the following criteria:

1) There was a release from the sewer main that contributed to the plume;
2) The sewer owner/operator knew of leaks and failed to repair them;
3) The sewers were in poor condition and/or were not maintained; and,
4) The sewer owner/operator was aware of/or permitted discharges into a leaking sewer.

In order to determine whether CCCSD should be named as a discharger, Staff considered evidence submitted by CCCSD and GVP and compared it to the four criteria above. Staff has reviewed evidence submitted by GVP and CCCSD and

[7] GVP notes in their submission that Porter-Cologne (Water Code section 13304) is a strict liability statute. The cases which provide guidance here pertain to similar claims brought under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) concerning the responsibility of a sewer owner/operator for contamination resulting from releases from sewers. CERCLA, like Water Code section 13304, is a strict liability statute, and while these cases are not binding precedent, they do provide useful guidance. In these cases, the courts have refrained from identifying sewer owners/operators as "responsible parties" (the CERCLA rough equivalent of the Water Code's "discharger") merely because they owned or operated a sewer system. (*See, e.g., Fireman's Fund Insurance Co. v. City of Lodi* (9th Cir. 2002) 302 F.3d 928, 946 ["it is doubtful whether Lodi may be considered a PRP merely as a result of operating its municipal sewer system"]; *Lincoln Properties, Ltd. V. Higgins*(E.D. Cal. 1992) 823 F.Supp. 1528, 1542-43 ["To hold the County liable for its 'normal' activities in owning and maintaining the sewer line and wells would be an anomalous result]; *Adobe Lumber, Inc. v. Hellman* (E.D. Cal. 2009) 658 F.Supp.2d 1188, 1205-06 [declined to find that the City was an innocent party where the City knew of dry cleaning operation, had a "reactive" sewer maintenance management and no studies of leakage].) Staff finds the criteria from these cases useful in ensuring a complete analysis of the facts concerning CCCSD.

concluded that CCCSD is not an appropriate discharger because the sewer lines in the Gregory Village area of Pleasant Hill are in good condition. There is no direct evidence that leaking sewer lines under CCCSD ownership have caused or contributed significantly to the groundwater contamination. None of the above four criteria are met in this case, as explained in more detail below.

1. No evidence that the sewer system contributed to the groundwater plume

While there is evidence of incidental leakage from the sanitary sewer lines, there is no direct evidence the leakage contributed substantially to the creation of the CVOC commingled groundwater plume.

We conclude, based upon a review of records submitted by GVP and CCCSD, that the overall sanitary sewer system in the Gregory Village area of Pleasant Hill appears to have been well maintained and is in generally good condition. Inspections are routinely conducted, and when clogs and breaks in pipes are discovered, they are routinely investigated and repaired.

Fate and transport modeling (PES Environmental, Inc., 2013) adequately demonstrates the levels and locations of contamination in the environment resulted from the releases of CVOCs directly from past dry cleaning and automotive repair businesses, including releases from private sewer laterals, but not directly from the sewage conveyance system owned and operated by CCCSD.[8] [9]

GVP asserts that "at least three suspected sewer leakage locations that have resulted in chlorinated hydrocarbon releases and detections in the subsurface."[10] Staff addresses each of these locations below:

- Apparent Source Area Near the Intersection of Shirley Drive and Cynthia Drive

  GVP identified an area near the intersection of Shirley Drive and Cynthia Drive and manhole M54, an area within the residential subdivision, as an "apparent source area." based on the detection of elevated concentrations of PCE in soil vapor. Additionally, records from CCCSD comment on cracks, open joints, and root infiltration in a sewer line beneath Shirley Drive. CCCSD notes that sewer lines in this area "collect sewage from a residential neighborhood and would not have any PCE in them." Staff does not find this location to be a source area.

- Apparent Source Area in the Vicinity of Manhole M46

  GVP presents several data points and the argument that these points demonstrate a source of PCE in close proximity to manhole M46. However, the highest concentrations of PCE in soil vapor samples were at lower depths near the

[8] CCCSD, May 28, 2013, CCCSD Responses to 13267 Letter Questions, Pages 2-5.
[9] CCCSD, December 18, 2013, Summary of Response to Water Board 13267 Letter, Pages 1-3.
[10] GVP Submission, July 3, 2012, at pp. 8-11.

groundwater table, indicating that shallow groundwater is the likely source of the CVOCs rather than the soil surrounding the sewer lines.

Staff conclude that the data suggests separate groundwater plumes migrated from the former dry cleaners at Sites 1 and 2, and the former steel waste oil UST at Site 2, to the north-northwest, generally diminishing in concentration from the source areas. Within the commingled groundwater plume, there are a number of wells with variable contaminant concentrations. GVP focused on a single grab groundwater sample from a higher elevation and compared it with deeper samples from groundwater wells. Staff does not find this single data set to be compelling evidence of a source area based on the data originating from different monitoring well screen intervals.

With respect to GVP's evidence and contentions regarding the presence of CVOCs between manholes M44 and M46 and the adjacent parcels, the CCCSD submission notes that the "PCE-laden wastewater from former dry cleaning operations at Gregory Village Shopping Center and at the Chevron Service Station site located at 1705 Contra Costa Boulevard did not flow in the sanitary sewer from manhole M44 to manhole M46 and is not a source for PCE found at adjacent parcels." Staff finds that CVOCs at these locations could not be from a release along the sanitary sewer lines.

- Suspected Source Area in Linda Drive Along Sewer

  The area along Linda Drive, a street establishing the western boundary of Site 2, is an area where Staff specifically identifies a need for additional data. The original vitrified clay sewer line in this area was replaced in 1987-1988 as part of Chevron's station upgrade project, and the new cast iron line was put in a location different than the original clay line. The original sewer line served both the former Standard Oil automotive repair station and the former dry cleaner. CCCSD has supplied several figures which show the locations of both the original and existing sewer lines. There is insufficient soil and groundwater data to reach the conclusion that the older sewer line was a release point.

2. No evidence of the sewer operator's knowledge that the sewer system is leaking or needs repair

CCCSD asserts that it had no knowledge that the sewer collection system in the area of the Gregory Village Shopping Center and Site 2 leaked significantly in the past or is currently leaking and needs repair.[11] [12] Neither Chevron nor GVP have presented evidence to the contrary. CCCSD submitted evidence of a robust maintenance program, which included video inspections, regular cleaning of the sewer pipes, and spot repairs, to identify and address problem areas. These measures are designed to ensure the overall integrity of the sewer conveyance system. There are many

[11] CCCSD, May 28, 2013, CCCSD Responses to 13267 Letter Questions, Pages 5-11.
[12] CCCSD, December 18, 2013, Summary of Response to Water Board 13267 Letter, Pages 3-4.

instances where minor leaks in the sewer mains were detected and repaired, but there is no evidence of major leakage or deferred maintenance of the sewer lines by CCCSD.

GVP submitted information concerning CCCSD's alleged failing sewer lines[13], but admits that "GVP has little information concerning how well or how poorly the system operated … near the Site prior to the mid-1990s." It is Staff understanding that dry cleaning operations ceased at Site 1 in 1991 and at Site 2 in 1986. Evidence of a "failing sewer system" in the late 1990s or 2000s is not indicative of CCCSD's behavior during the time when the dry cleaners would have disposed of separator wastewater down drains and/or private sewer laterals.

GVP documented two instances from the relevant time period above that Staff specifically reviews and addresses here:

<u>Instance 1</u>

- January 19, 1979 - CCCSD inspection notes identify a sunken spot in Shirley Drive at Luella Drive.

  GVP identifies a "sunken spot" in a sewer line in Shirley Drive at Luella Drive. [14] A January 2, 2003, drawing provided by CCCSD entitled "Collection System Renovations – Spot Repairs" shows that a 10-foot section of 6-inch diameter vitrified clay pipe in Luella Drive leading from manhole M58 was repaired. CCCSD's repair of the sanitary sewer in this location suggests reasonable sewer maintenance.

<u>Instance 2</u>

- March 10, 1977 – A "Daily Maintenance Report" describes the condition of the sewer main in Linda Drive during the installation of a "tee" connection. The line at the tee connection located "153' up from M.H. at Linda Dr and Doris Dr" is described as "in very poor shape has lots of cracks."

  Linda Drive forms the western boundary of Site 2, and is an area where Staff has specifically identified a need for additional soil and groundwater data. Staff understands that the original sewer line in this area was replaced as part of a Chevron service station construction project in 1987-1988, and that the new sewer was put in a different location from the original line.

  According to GVP submissions concerning the more recent condition (e.g., 1990s-2000s) of CCCSD's sewer system, Staff does not find evidence of major repairs needed on the CCCSD sewer lines in the area of the groundwater contamination. There is no tangible evidence CCCSD was aware of any needed repair beyond routine maintenance.

[13] GVP Submission, July 3, 2012, pp. 6-8
[14] GVP Submission, July 3, 2012, p. 6

3. No evidence of poor maintenance or inspection schedules

CCCSD provided numerous records pertaining to the maintenance and inspection of the sanitary sewer lines in the areas around Site 1 and Site 2 (CCCSD, 2013). Staff reviewed the information, and concurs that the sewer lines owned and operated by CCCSD were maintained and inspected appropriately since the 1970s.

GVP submitted information concerning CCCSD's alleged failure to inspect and maintain sewer lines.[15] Similar to section VI.B.2 above concerning leaks in the sewer system, GVP's submission indicates that "GVP has little information concerning … how well or how poorly CCCSD inspected and maintained the system near the Site prior to the mid-1990s." Evidence of a "failing sewer system" in the late 1990s or 2000s is not indicative of the condition of the sewer system during the time when the dry cleaners would have disposed of separator wastewater to the sanitary sewer lines.

4. No evidence that the sewer operator knew of or permitted discharges of separator wastewater into the leaking sewers

Staff reviewed information provided by CCCSD and GVP on the question of whether CCCSD permitted or knew that dry cleaners discharged separator wastewater into the sanitary sewers. GVP has not provided any evidence that CCCSD knew of separator wastewater disposal from the dry cleaners at either Site 1 or Site 2 during the relevant time period.

Staff does not agree with CCCSD that discharges of PCE-laden wastewater into the sewer system have been prohibited since 1953. CCSD maintains that any discharge of PCE to the sewer collection system would have been illegal. However, documents reveal a complete prohibition of PCE-laden wastewater to the main sewer lines did not go into effect until 2007.[16]

Prior to 2007, CCCSD allowed for PCE to be discharged to the sanitary sewer within specified limits. For example, Ordinance No. 99 (adopted on July 11, 1974) allowed the discharge of "Total Identifiable Chlorinated Hydrocarbons" to sanitary sewers at a concentration not exceeding 0.002 mg/L for "50% of time" and not exceeding 0.004 mg/L for "10% of time." CCCSD Ordinance No. 147 (adopted on August 27, 1981) states "No person shall discharge wastewater containing in excess of "0.50 mg/l total identifiable chlorinated hydrocarbons."

The allowable PCE discharge concentrations before 2007 were far lower than what would be expected in PCE-impacted wastewater, which would be on the order of 150,000 µg/L.[17] Neither GVP nor Chevron have provided any evidence that CCCSD had specific knowledge at any time that PCE-laden wastewater in excess of the

[15] GVP Submission, July 3, 2012, pp. 6-8
[16] CCCSD, May 28, 2013, Attachment E
[17] Dry Cleaners – A Major Source of PCE in Ground Water, March 27, 1992
http://www.swrcb.ca.gov/rwqcb5/water_issues/site_cleanup/dry_cleaner_rpt.pdf

Ordinance's low levels was being discharged into their system from either Site 1 or Site 2.[18]

Attachments

Figure 1: Site Vicinity Map
Figure 2: Site Location Map
Figure 3: Maximum PCE Concentrations in Groundwater at 1643 and 1705 Contra Costa Boulevard and Immediate Vicinity, Pleasant Hill, Contra Costa County
Figure 4: Maximum PCE Concentrations in Soil at 1705 Contra Costa Boulevard and Immediate Vicinity, Pleasant Hill, Contra Costa County
Figure 5: Maximum PCE Concentrations in Soil Vapor at 1705 Contra Costa Boulevard and Immediate Vicinity, Pleasant Hill, Contra Costa County
Figure 6: Maximum PCE Concentrations in Groundwater at 1705 Contra Costa Boulevard and Immediate Vicinity, Pleasant Hill, Contra Costa County
Figure 7: Maximum TCE Concentrations in Soil at 1705 Contra Costa Boulevard and Immediate Vicinity, Pleasant Hill, Contra Costa County
Figure 8: Maximum TCE Concentrations in Soil Vapor at 1705 Contra Costa Boulevard and Immediate Vicinity, Pleasant Hill, Contra Costa County
Figure 9: Maximum TCE Concentrations in Groundwater at 1705 Contra Costa Boulevard and Immediate Vicinity, Pleasant Hill, Contra Costa County

Table 1: Historic Maximum Detected Concentrations of Volatile Organic Compounds (VOCs)

[18] CCCSD, May 28, 2013, Attachment E

Figure 1: Site Vicinity Map

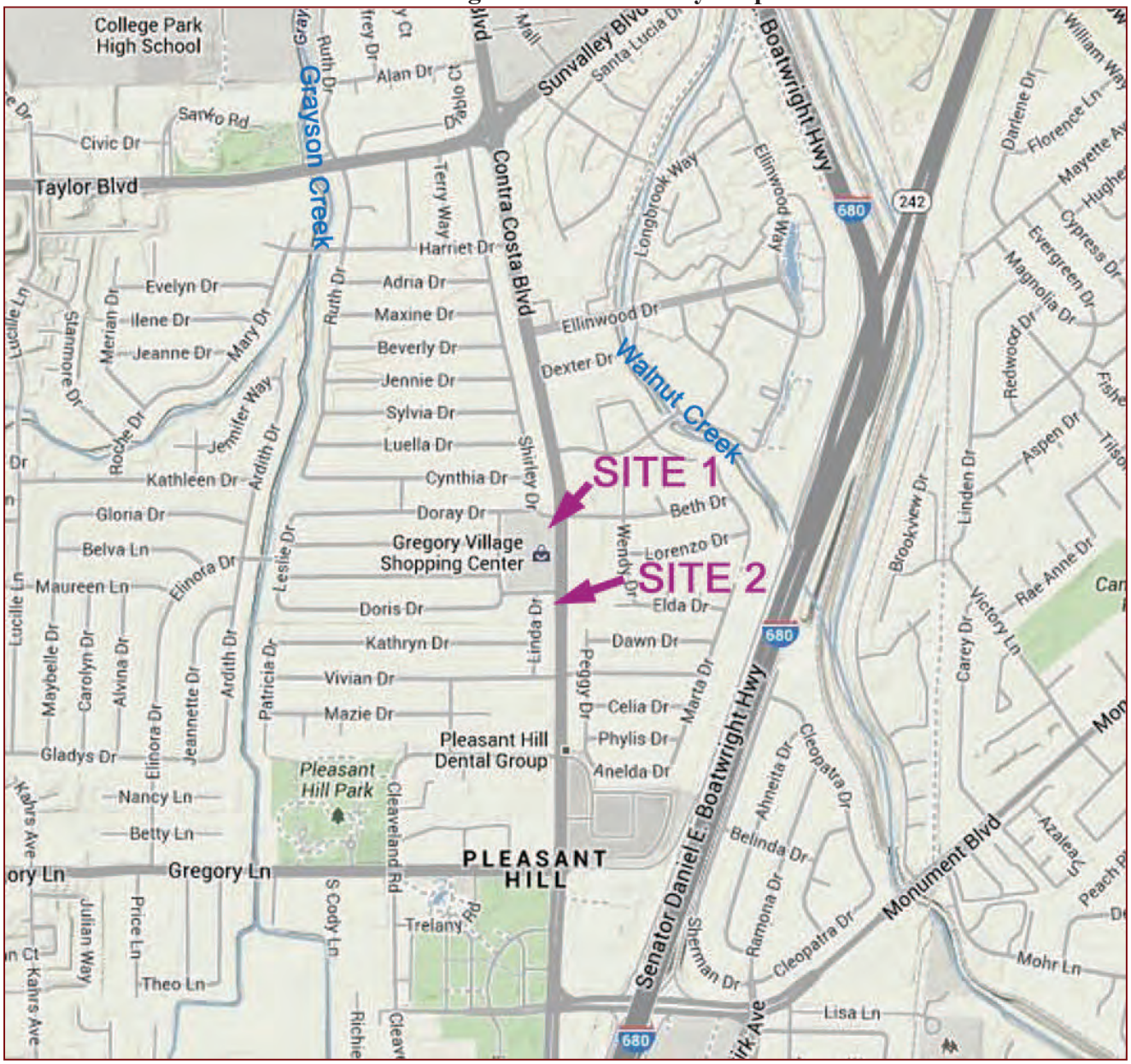


Figure 2: Site Location Map

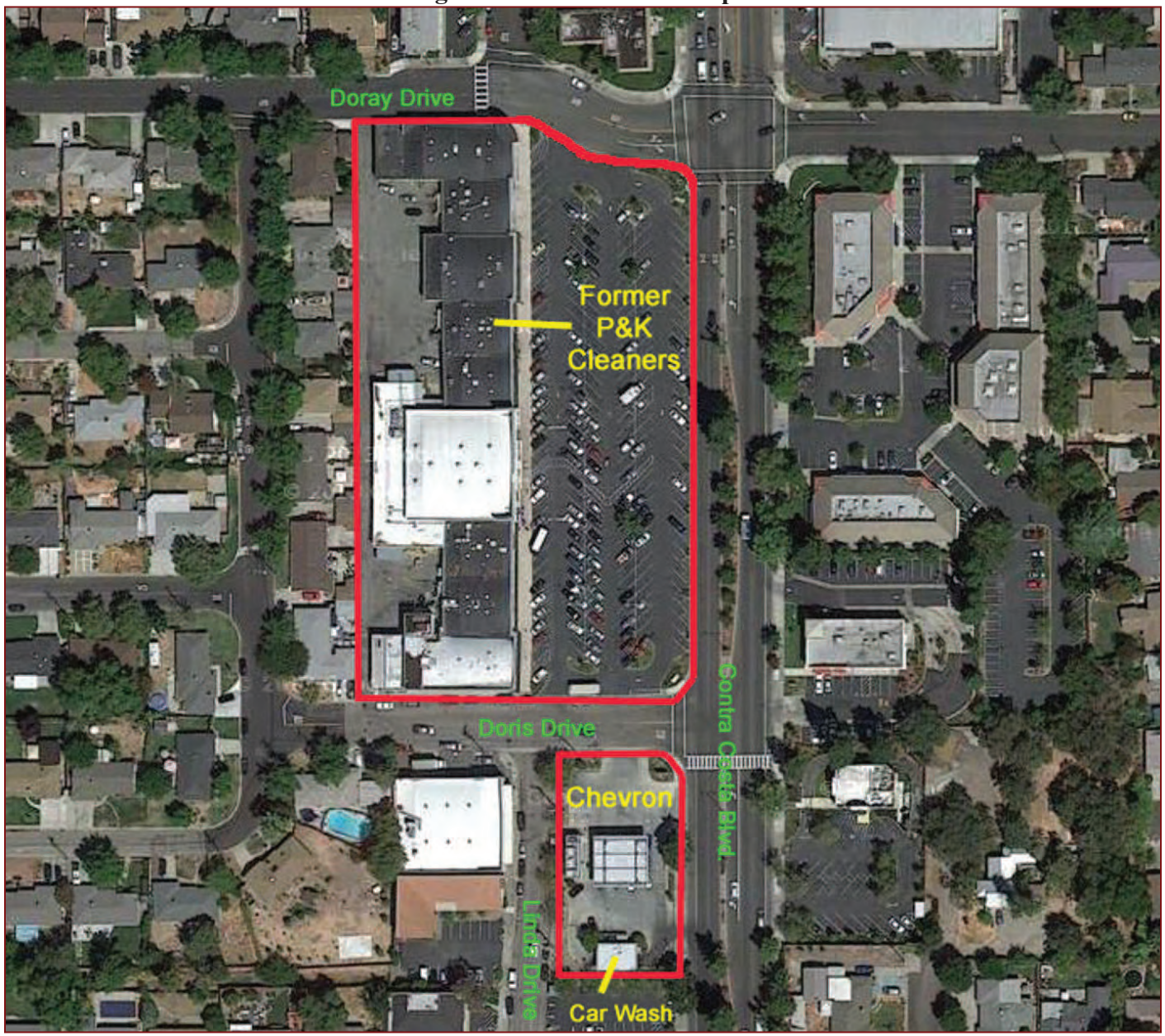


Figure 3: Maximum PCE Concentrations in Groundwater at 1643 and 1705 Contra Costa Boulevard and Immediate Vicinity, Pleasant Hill, Contra Costa County

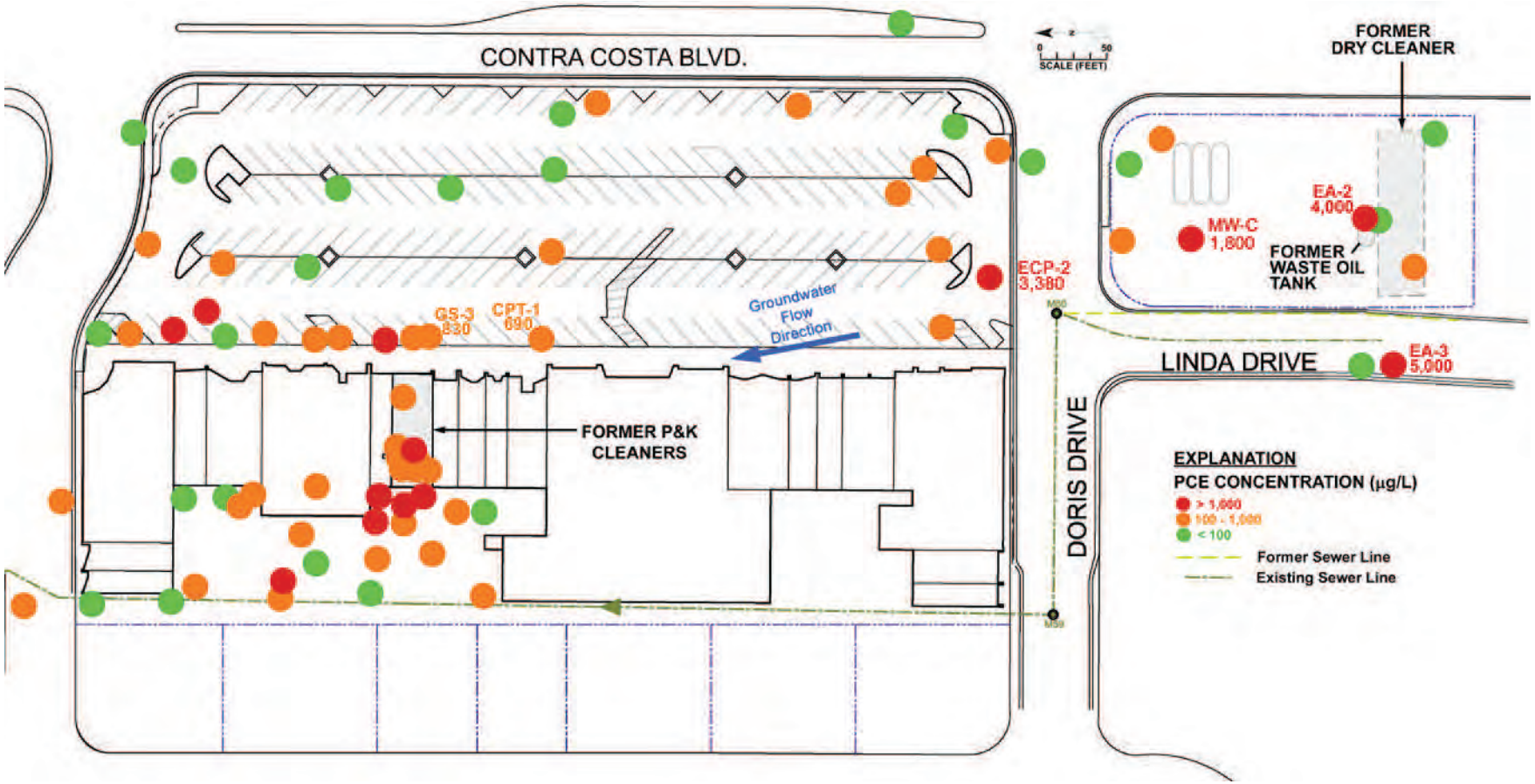


Figure 4: Maximum PCE Concentrations in Soil at 1705 Contra Costa Boulevard and Immediate Vicinity, Pleasant Hill, Contra Costa County

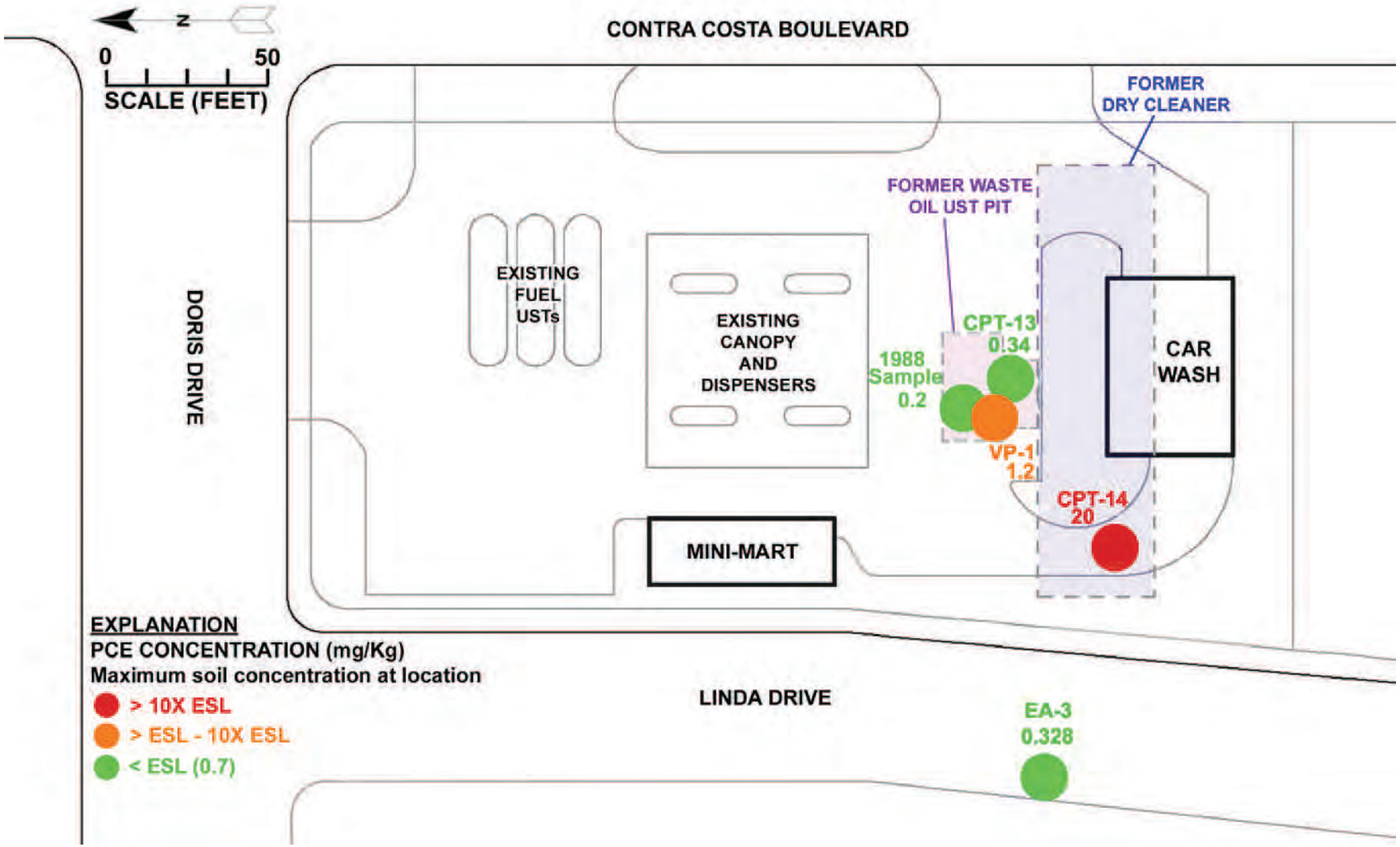


Figure 5: Maximum PCE Concentrations in Soil Vapor at 1705 Contra Costa Boulevard and Immediate Vicinity, Pleasant Hill, Contra Costa County

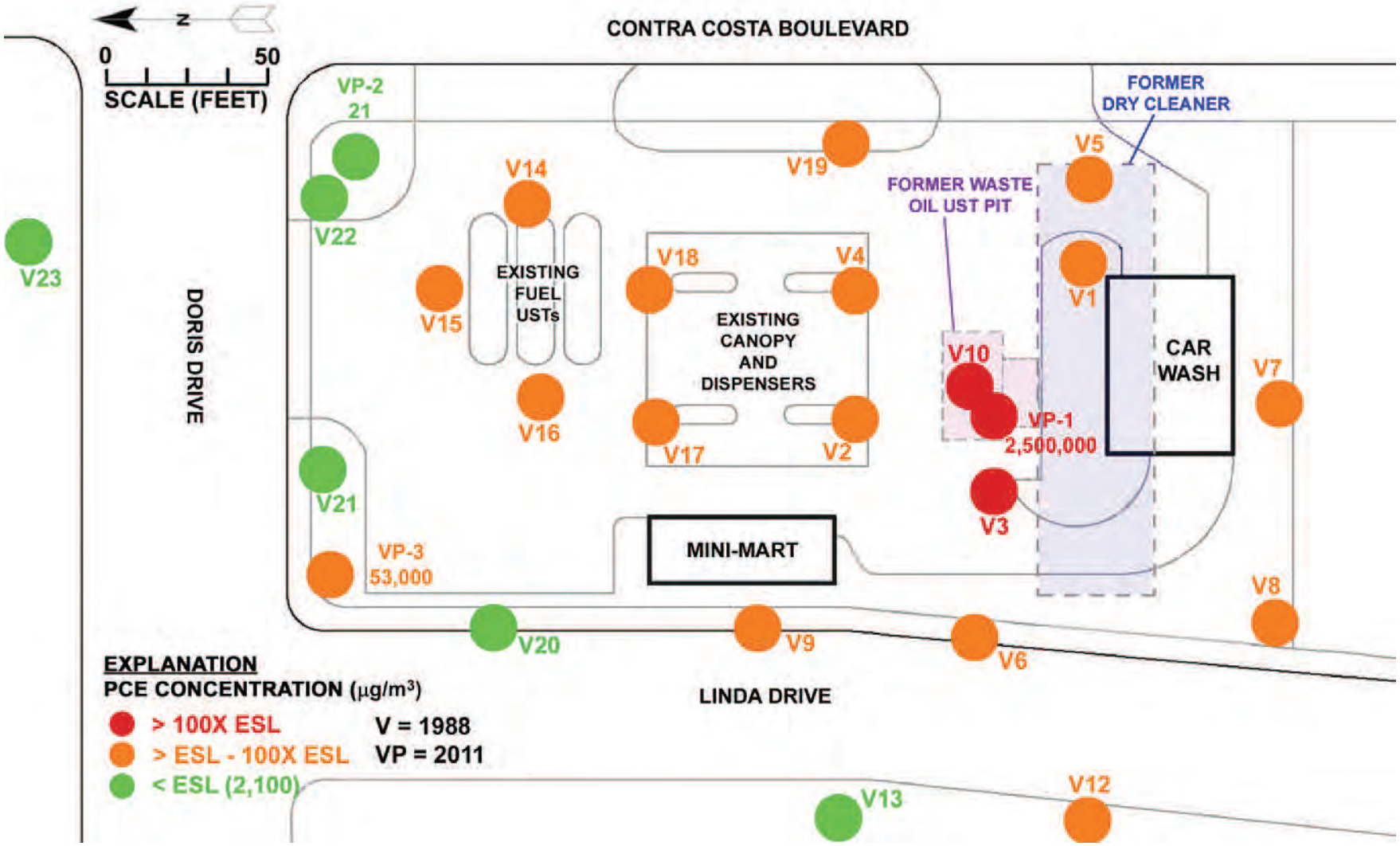


Figure 6: Maximum PCE Concentrations in Groundwater at the 1705 Contra Costa Boulevard Propertyand Immediate Vicinity, Pleasant Hill, Contra Costa County

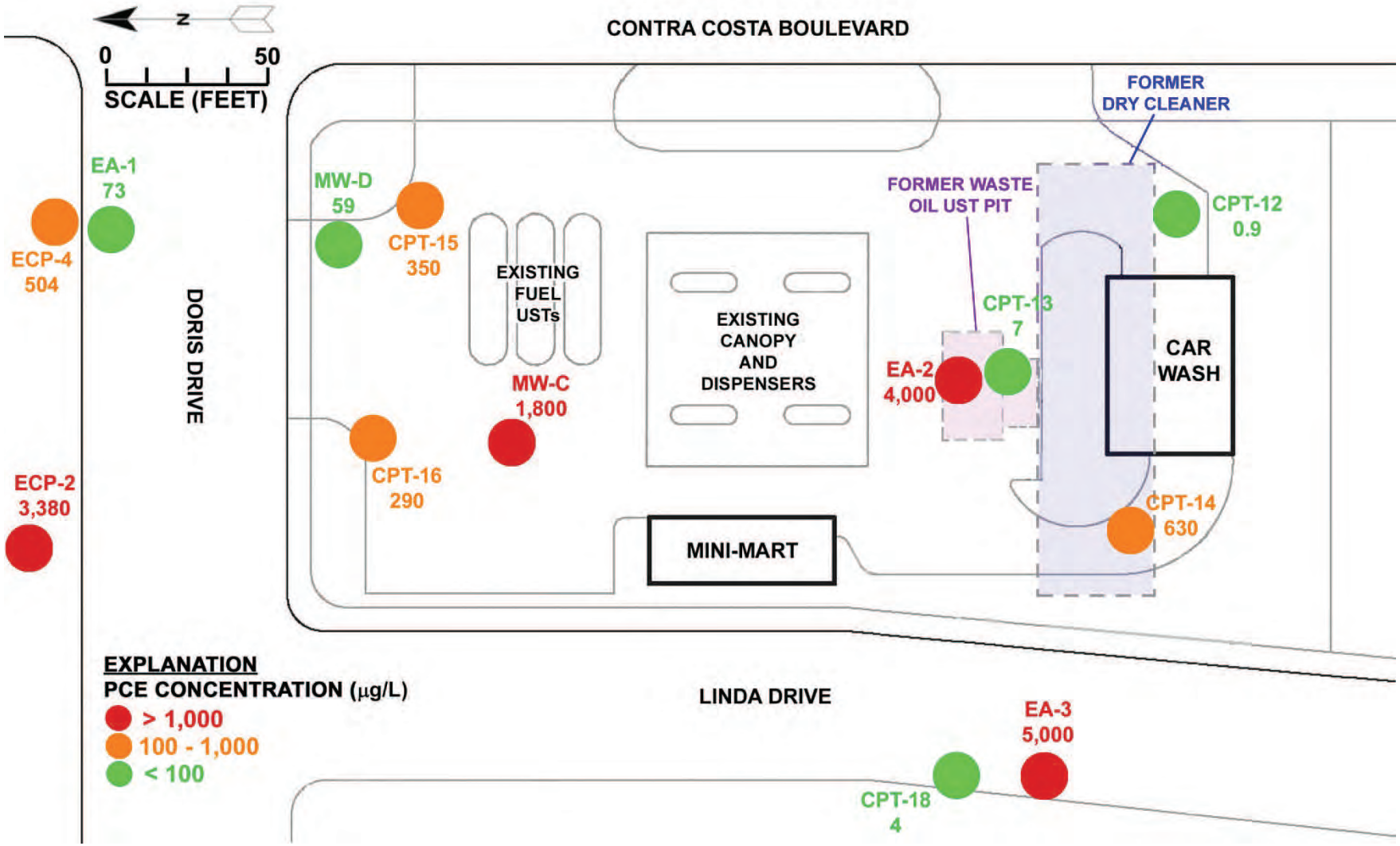


Figure 7: Maximum TCE Concentrations in Soil at the 1705 Contra Costa Boulevard Property and Immediate Vicinity, Pleasant Hill, Contra Costa County

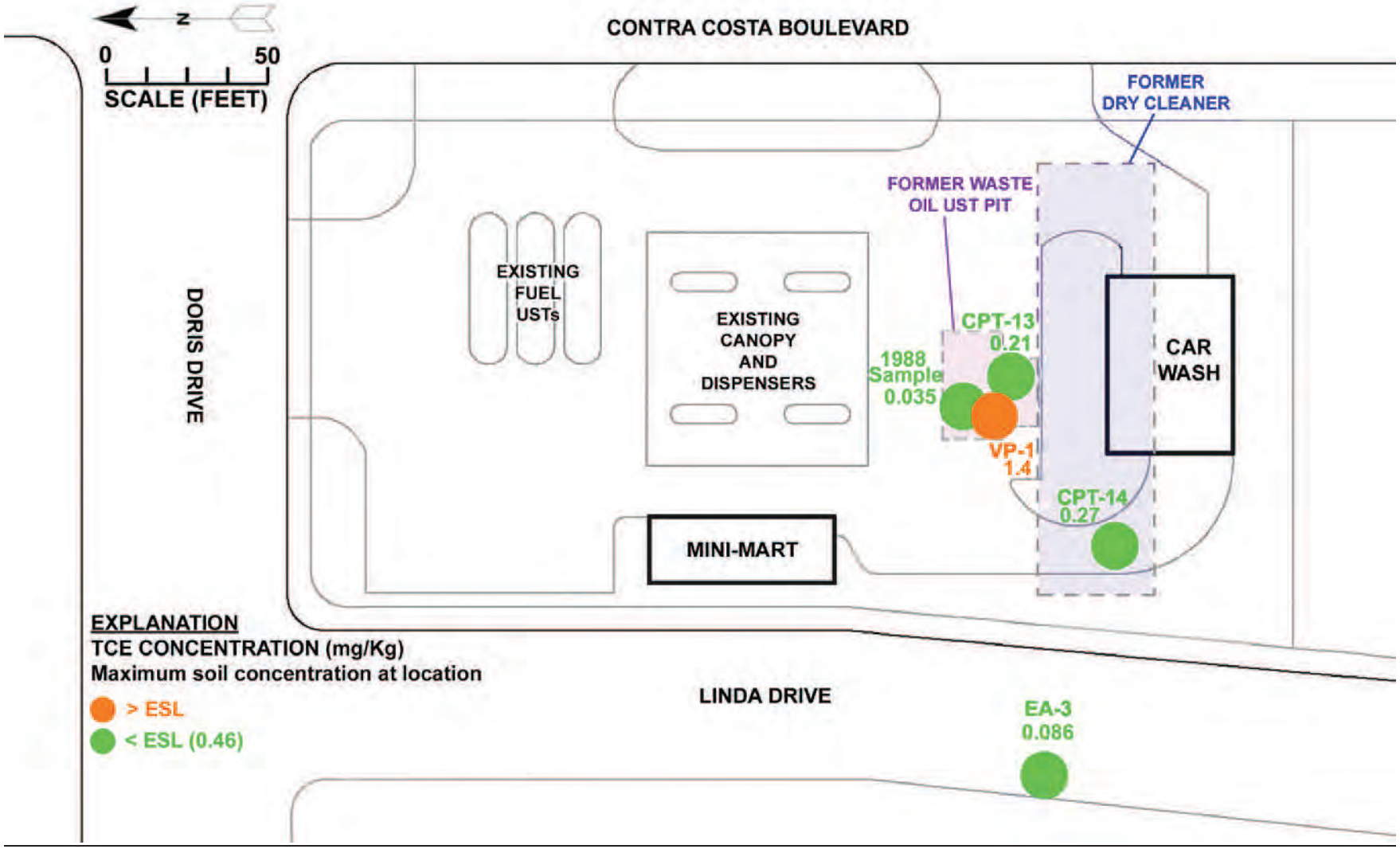


Figure 8: Maximum TCE Concentrations in Soil Vapor at 1705 Contra Costa Boulevard and Immediate Vicinity, Pleasant Hill, Contra Costa County

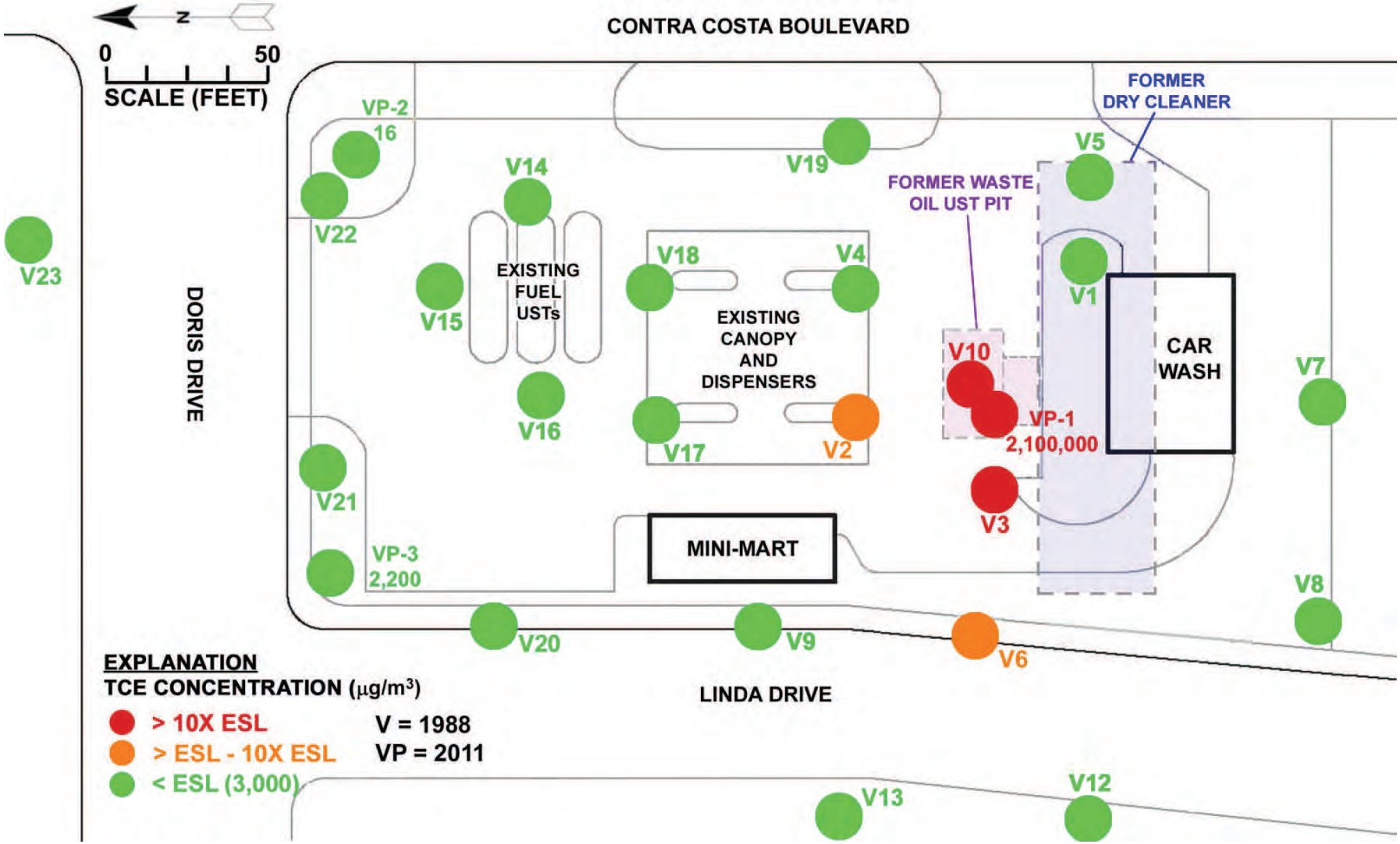


Figure 9: Maximum TCE Concentrations in Groundwater at 1705 Contra Costa Boulevard and Immediate Vicinity, Pleasant Hill, Contra Costa County

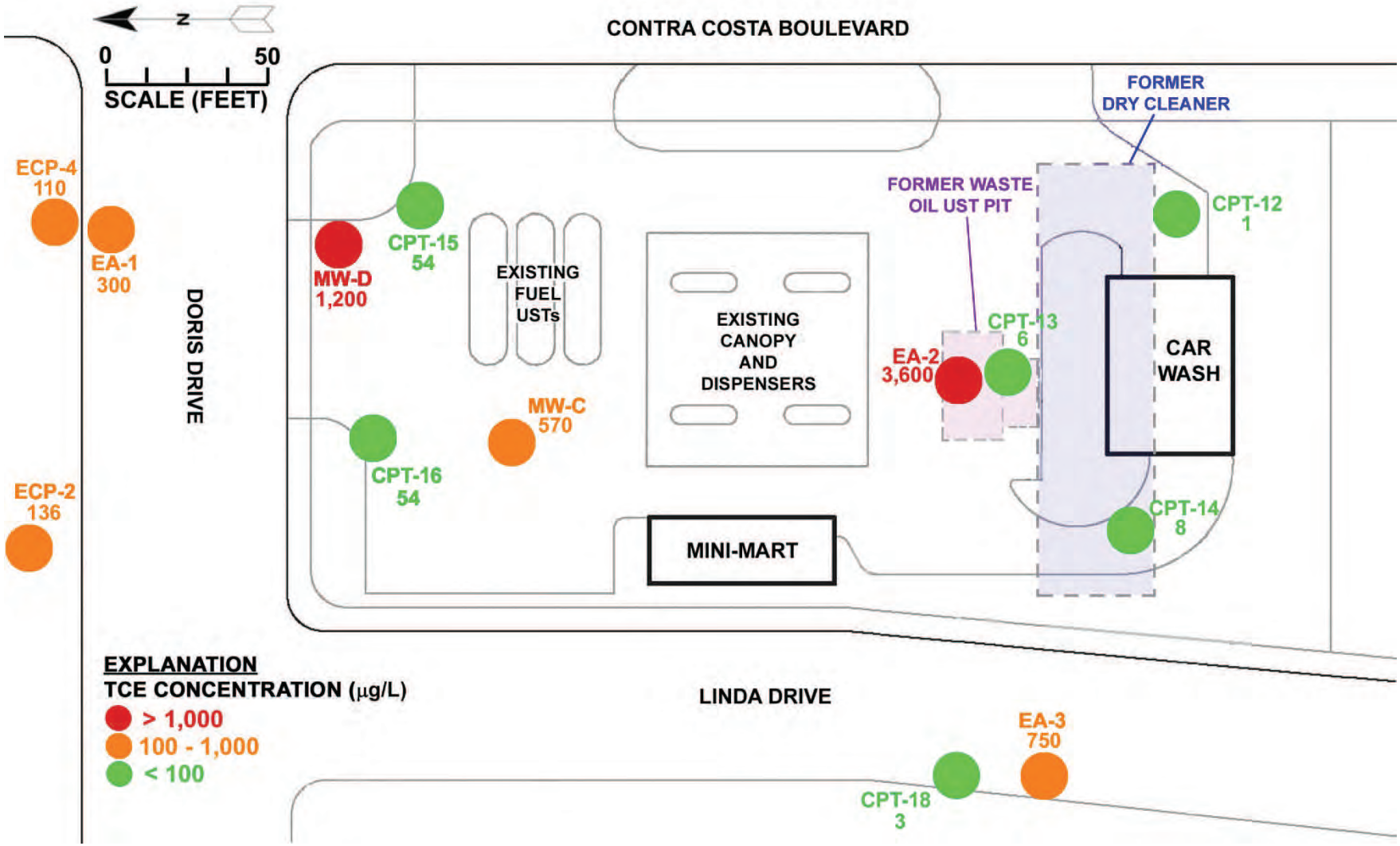


Table 1: Historic Maximum Detected Concentrations of Volatile Organic Compounds (VOCs)

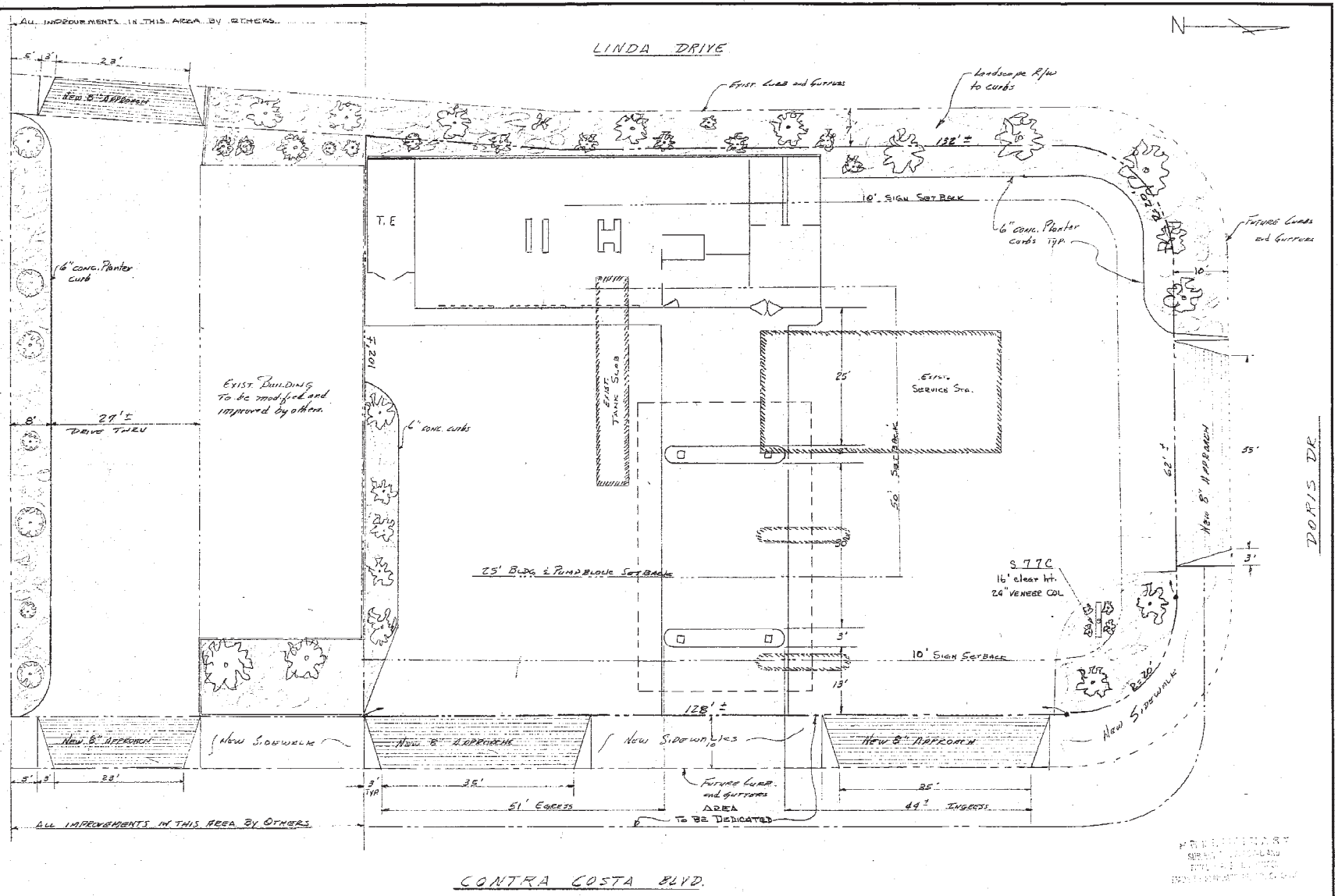
	SITE 1 (P&K Cleaners)			SITE 2 (Chevron)		
Chemical/Compound	Soil (mg/kg)	Groundwater (µg/L)	Soil Vapor (µg/m³)	Soil (mg/kg)	Groundwater (µg/L)	Soil Vapor (µg/m³)
PCE	5.3	27,000	1,490,000	20	5,000	3,247,700
TCE	0.03	130	<12,900	1.4	3,600	2,100,000
cis-1,2-DCE	<0.04	<40	<9,520	0.45	2,900	410,000
Vinyl chloride	<0.05	<50	<6,130	<48	910	<5,200
Benzene	NA	NA	40.2	2.2	SPH (12,000 dissolved)	520,733
TPH-g	NA	620	NA	80	SPH (110,000 dissolved)	916,667
MtBE	NA	140	NA	<1	540	<7,300*

Key
mg/kg Micrograms per kilogram
µg/L Micrograms per liter
µg/m³ Micrograms per cubic meter
NA Not Applicable (site is not a source of these compounds) or Not Analyzed
SPH Separate-phase hydrocarbons/free product detected in on-Site wells
* Although the minimum laboratory detection limit is typically determined by the appropriate screening value, due to dilution of sample (most likely because of the presence of chlorinated compounds in high concentrations), the reporting limit was elevated.

DRAFT

APPENDIX B

HISTORICAL SITE PLANS AND DATA



LEGEND

Property Line	Telephone	Road Sign
Fence	Bldg. Lights	Stop Sign
Concrete Curb	Electrolier	Traffic Signal
Concrete Ramp	Street Electrolier	Fire Hydrant
Gasoline Lines	Electrolier, Air & Water	Chevron
Vent Lines	Air Outlet	Poster Board
Air Lines	Water Bibb or Post	Price Sign
Water Lines	Air & Water	Tree
Sewer Lines	Flag Pole	Manhole
Elec. Conduit	Telephone or Power Pole	Water Meter
Elec. Panel	Trolley Pole	
Junction Box	Guy Pole or Deadman	

EQUIPMENT

NAME	CAPACITY	TYPE	KIND	NO.
Pumps				
Tanks				
Ser. Sta. Bldg				
Service Bldg.				
Compressor				
Auto Lift				

REVISIONS

NO.	NATURE	NAME	DATE	CHKD.	APPR.
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					

PROPOSED

RECONSTRUCTION 933-6817

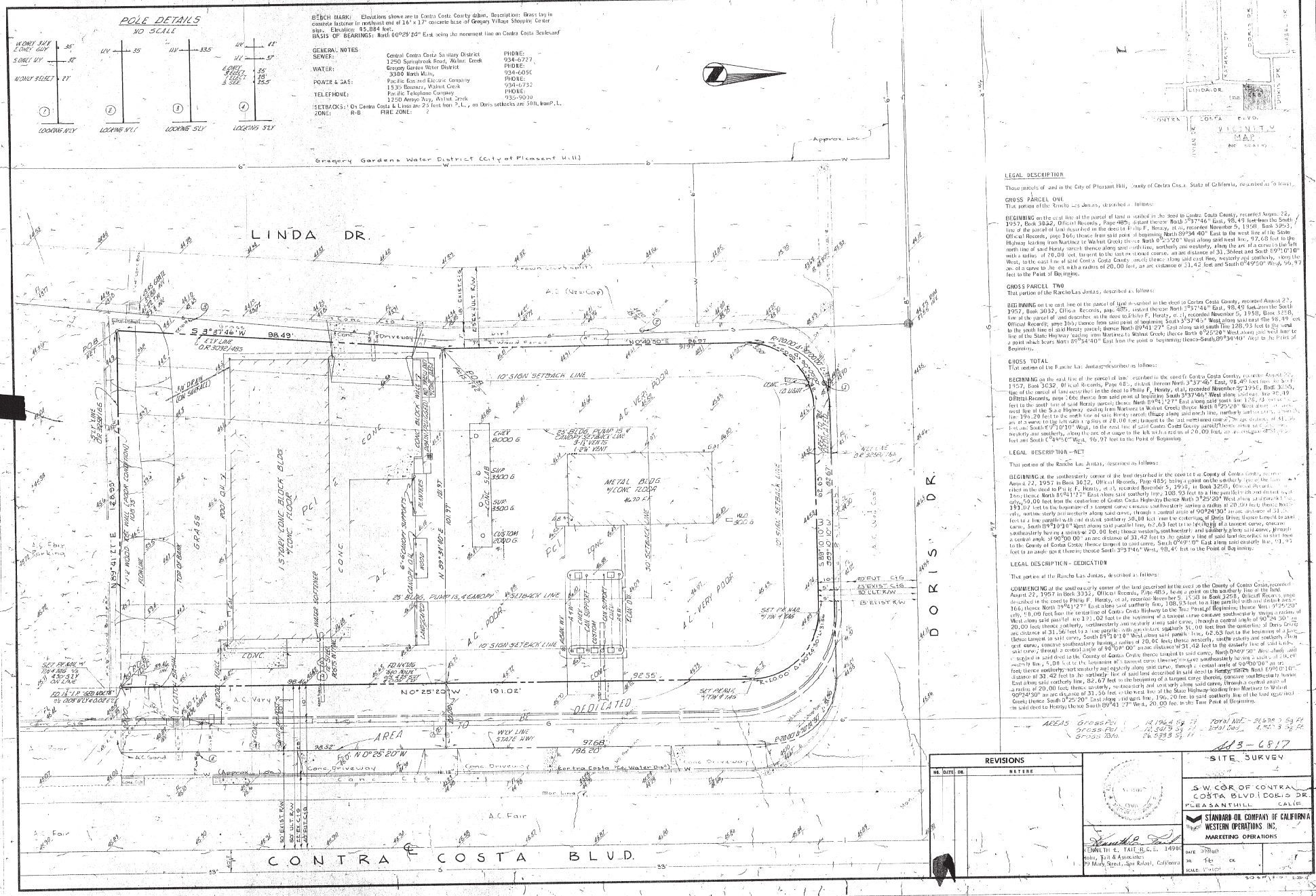
PLEASANT HILLS

DATE 5/15/70

DR. DOZ TR. CK. AP.

SCALE: 1" = 10'

CVXRSCHF0003867



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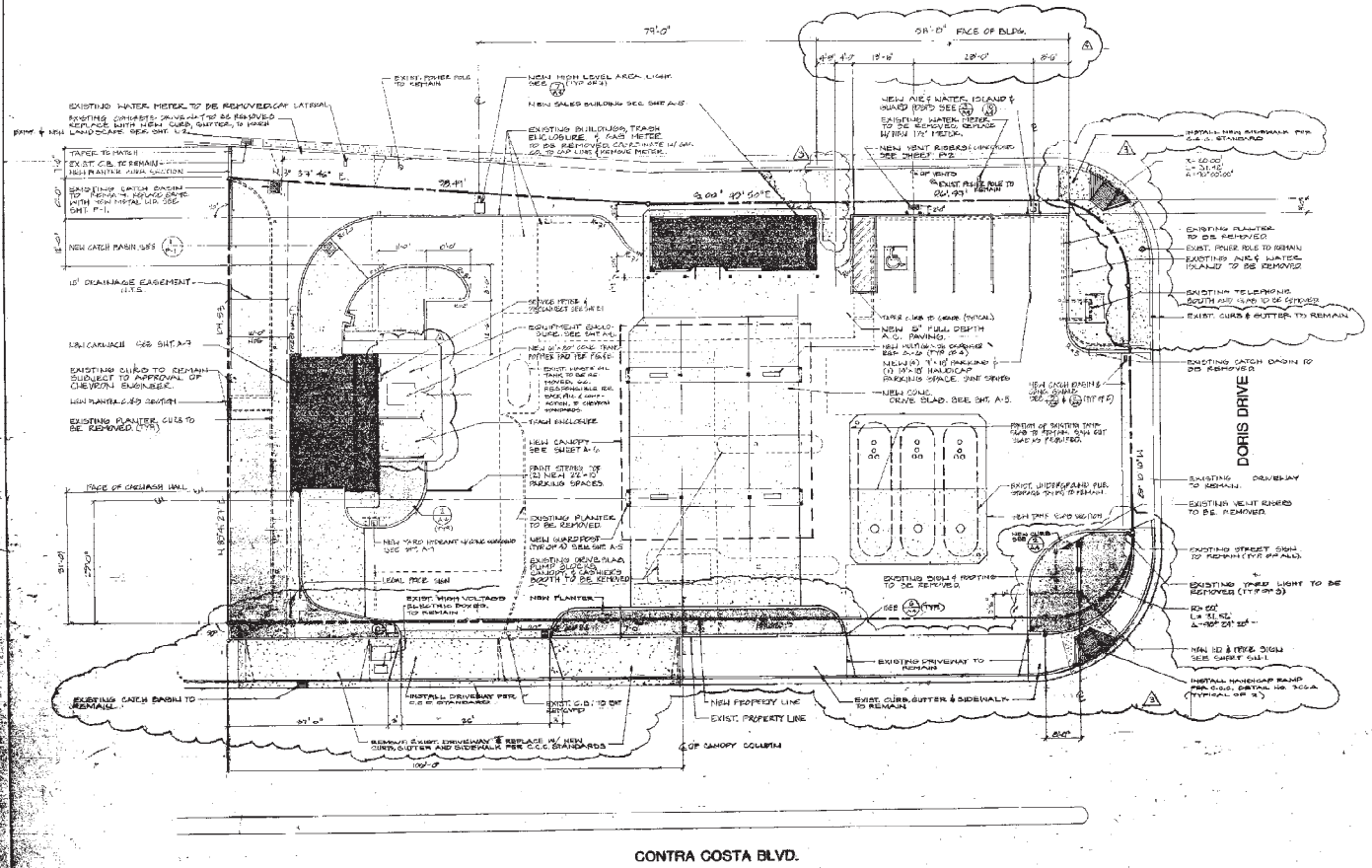


SITE PLAN

SCALE: 1" = 10'-0"

GENERAL NOTES

1. CHEVRON USA, INC. CONSTRUCTION SPECIFICATIONS (R.O.W. 2070) APPLY TO ALL WORK PERFORMED AT THIS SITE. RAILROAD SPECIFICATIONS (R.O.W. 7101) APPLY TO ON-SITE PAVING AND BRICKLINE, "PREFABRICATED METAL BINS AND CANOPIES" (SPEC. 8110-02) AS APPLIES TO OFF-SITE FABRICATION AND ON-SITE ERECTION BY SITEX FABRICATION.

2. CONSTRUCTION MATERIALS, ASSEMBLIES AND PROCEDURES ARE TO FOLLOW LOCALLY ADOPTED BUILDING CODES AND SUPPLEMENTARY ORDINANCES. WHEN A CONFLICT OCCURS BETWEEN THESE LOCAL CODE AND INFORMATION SHOWN ON THIS PLANS, CONTACT COMPANY REPRESENTATIVE FOR RESOLUTION PRIOR TO CONTINUING WORK.

3. GENERAL CONTRACTOR IS TO NOTIFY COMPANY REPRESENTATIVE PROMPTLY IF SITE CONDITIONS OR PLANNING DESIGNS MEET INFORMATION SHOWN ON THE DRAWINGS. WORK IS NOT TO PROCEED UNTIL SUCH DISCREPANCIES ARE RESOLVED.

4. DRAWINGS SHOULD NOT BE SCALED. N.T.S. INDICATED "NOT TO SCALE" AND FOR LISTED DIMENSION SHALL GOVERN.

5. THE BUILDING SHOWN ON THESE PLANS IS PARTIALLY OR FULLY PRE-FABRICATED ASSEMBLED AND FINISHED. IT IS TO BE DELIVERED TO THE SITE AND ERECTED BY THE SITEX FABRICATOR UNDER A SEPARATE CONTRACT. THE GENERAL CONTRACTOR'S RESPONSIBILITIES INCLUDE SITE PREPARATION, CONCRETE FOUNDATIONS AND SLABS, OVERALL COORDINATION AND CLEAN-UP, ETC. AS SET FORTH IN THE SPECIFICATIONS AND THE SCOPE OF WORK, AND ON THESE DRAWINGS.

6. SEPARATE CONTRACTS FOR SUCH WORK AS PAVING, LANDSCAPING AND SIGN INSTALLATION MAY BE AWARDED BY CHEVRON USA, INC. IN ADDITION CERTAIN SPECIALTY ITEMS SUCH AS LIGHTING FIXTURES, DISPENSERS, ETC. ARE PURCHASED DIRECTLY BY CHEVRON USA, INC. FOR DELIVERY TO THE GENERAL CONTRACTOR, WHO WILL BE RESPONSIBLE FOR THEIR INSTALLATION. REFER TO THE SCOPE OF WORK FOR A LISTING OF SUCH CONTRACTS AND EQUIPMENT. THE GENERAL CONTRACTOR SHALL COOPERATE WITH AND COORDINATE THE WORK OF SEPARATE CONTRACTORS.

7. PROPER DRAINAGE MUST BE ASSURED FOR THE "BUILDING SHADE" BEHIND THE METAL PAN PLENUM OF SITEX-FABRICATED BUILDINGS. IN AREAS HAVING A HIGH WATER TABLE, INGREDIENTS SUCH AS CONCRETE MOISTURE-RETARDANT COMPOUNDS, GENERAL CONTRACTOR SHALL INSURE ADEQUATE MAINTENANCE FOR ITS DURABILITY, CONNECTED TO THE NEAREST STORM SEWER, OR OTHER MEANS FOR REMOVAL OF WATER ACCEPTABLE TO THE COMPANY REPRESENTATIVE.

8. DETAILS FOR THE METAL BUILDING, ADDITIONAL SITEX, FOUNDATION DETAILS, STRUCTURAL CALCULATION, ETC. ARE PROVIDED ON THE SITEX FABRICATOR, CHEVRON USA, INC. DRAWINGS ARE INTENDED TO ILLUSTRATE THE SITE, COLOR, MATERIAL AND FINISH OF THE BUILDING, AS WELL AS THE NATURE AND SCOPE OF OTHER WORK TO BE PERFORMED AT THE SITE.

9. EACH CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OF DAMAGE TO THE WORK OF OTHER TRADES CAUSED BY HIS OPERATIONS. THE NATURE OF SUCH REPAIR WORK MUST RECEIVE THE PRIOR APPROVAL OF THE COMPANY REPRESENTATIVE.

10. REFERENCE DRAWINGS:

TITLE	DRAWING NO.
SITE GRADING PLAN	A-2
LANDSCAPE SITE PLAN	L-1
SITE PLAN, UTILITY & PROCESS PIPING	P1,P2
SITE PLAN, ELECTRICAL	E-1

Facility Number 2-6047
General Gen.
Service Regs/Proposals
Permits/Bonds
Drawings/Specifications
Soil & Leak Reports
Legal/Gen/Tax/SDU
Reports

NORTH

DO NOT USE FOR CONSTRUCTION UNLESS SIGNED AND DATED BELOW.

ROBERT M. LEE AND ASSOC.
DATE

Chevron U.S.A. Inc.
Marketing Operations/San Ramon

REVISIONS		
A	ISSUED FOR BID	12-6-85
B	FOD	12-12-85
C	REVISE FOR BIDS	1-13-86
D	ISSUED FOR CONSTR.	3-10-86
E	REVISED FOR CONSTR.	3-31-86

ROBERT M. LEE & ASSOCIATES
ARCHITECTS
1000 Ygnacio Valley Rd., Walnut Creek, Calif. 94596

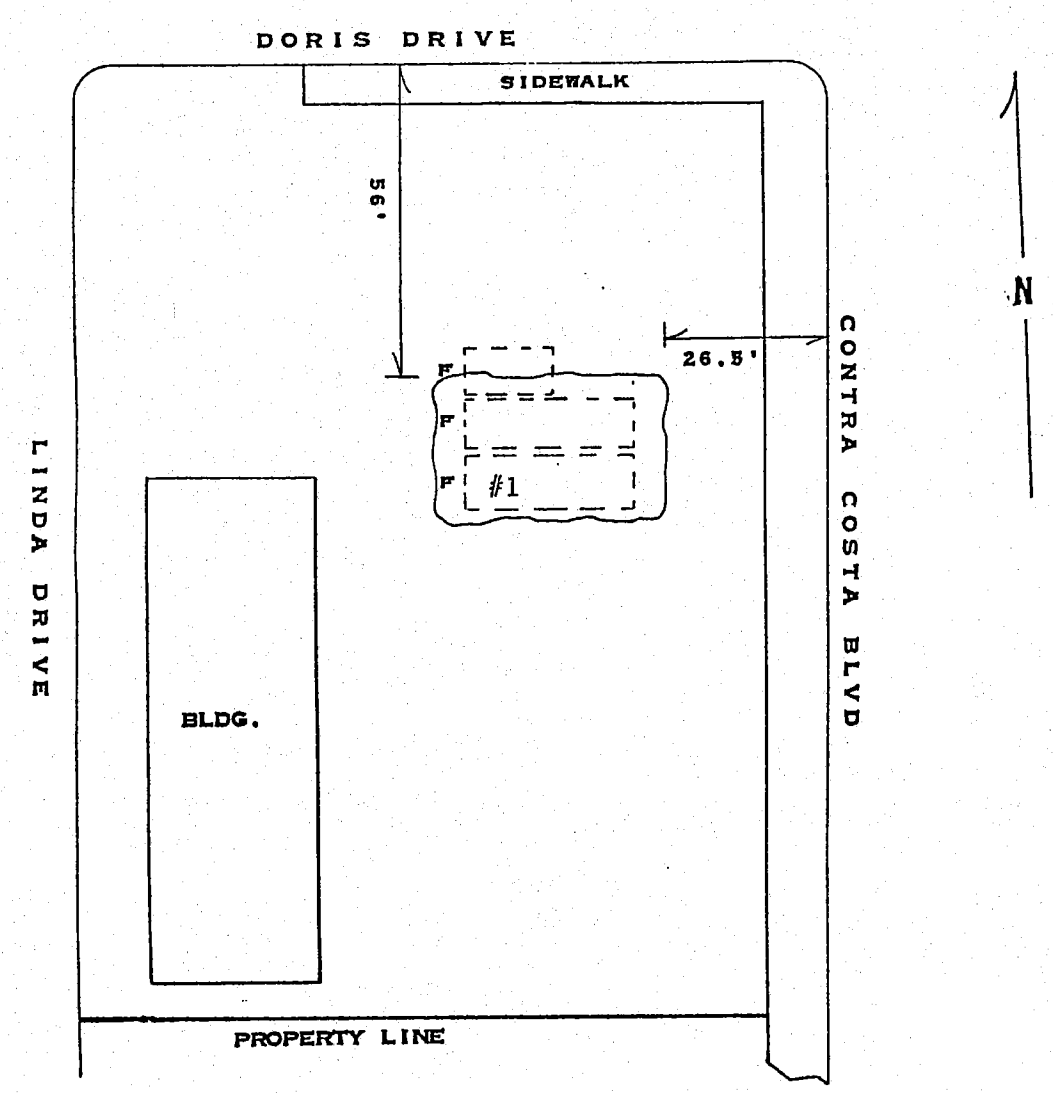
SITE PLAN
1705 CONTRA COSTA BLVD.
PLEASANT HILL, CA.
SCALE: 1" = 10'-0" DATE: 2-26-87
DR. D.J.S. CHKD. R.M.L.
SHT. 1 OF 1
JOB NO. 8205
A-1

CVXRSCHF0004681

BLAINE
TECH SERVICES

SAMPLING REPORT 86134BI 5-14-86 CHEVRON STATION NO. 6817, 1705 CONTRA COSTA BLVD., PLEASANT HILL, CA

SCALE: 0 10 20'



MAP REF: THOMAS BROS. CONTRA COSTA COUNTY P. 47 B-6

LEGEND: F = FILL PIPE

#1 SUBSURFACE WATER SAMPLE ANALYSIS FOR TOTAL HYDROCARBONS, BENZENE, TOLUENE AND XYLENE AT THERMO ANALYTICAL, INC/ERG TMA/ERG LAB NO. 7791-1

SAMPLING PERFORMED BY RICHARD C. BLAINE

DIAGRAM PREPARED BY TAMMIE STALLINGS

Tammie Stallings

TMA
Thermo Analytical Inc.

TMA/ERG
1400 West 53rd Street
Suite 460
Emeryville, CA 94608-2946
(415) 652-2300

May 30, 1986

Chevron USA
2 Annabel Lane, Suite #200
San Ramon, CA 94583

Attention: Daryl Fuerstenau

Report #7791 Release #24

Site Location: Chevron Station #6817, Contra Costa Blvd., Pleasant Hill.

RE: One (1) water sample submitted on May 14, 1986 for routine total hydrocarbon response and BTX.

Procedure: The sample is analyzed for total hydrocarbon response by following the method described in Attachment 2, Analytical Procedures for Fuel Leak Investigations. The sample is concentrated on a Tekmar LSC-2 automatic sample concentrator prior to injection into a gas chromatograph fitted with a flame ionization detector. Quantitation is performed, as total hydrocarbon response, against solutions made from a known concentration of heptane-isooctane (55/45). The limit of detection for this method of analysis is one part per million (mg/L).

The aromatic levels are determined by following a modified EPA Method 602 procedure. The volatile components of the samples are concentrated with a Tekmar LSC-2 automatic sample concentrator prior to injection into a gas chromatograph fitted with a photoionization detector. Quantitation is performed against solutions made from known concentrations of aromatic compounds. The limit of detection is 10 parts per billion (ug/L).

The results are shown below: Concentration (mg/L).

ERG #	CLIENT ID	BENZENE	TOLUENE	XYLENES	TOTAL HYDROCARBON RESPONSE
7791-1	86134 B1 #1	3.1	5.2	6.1	170

Submitted by:

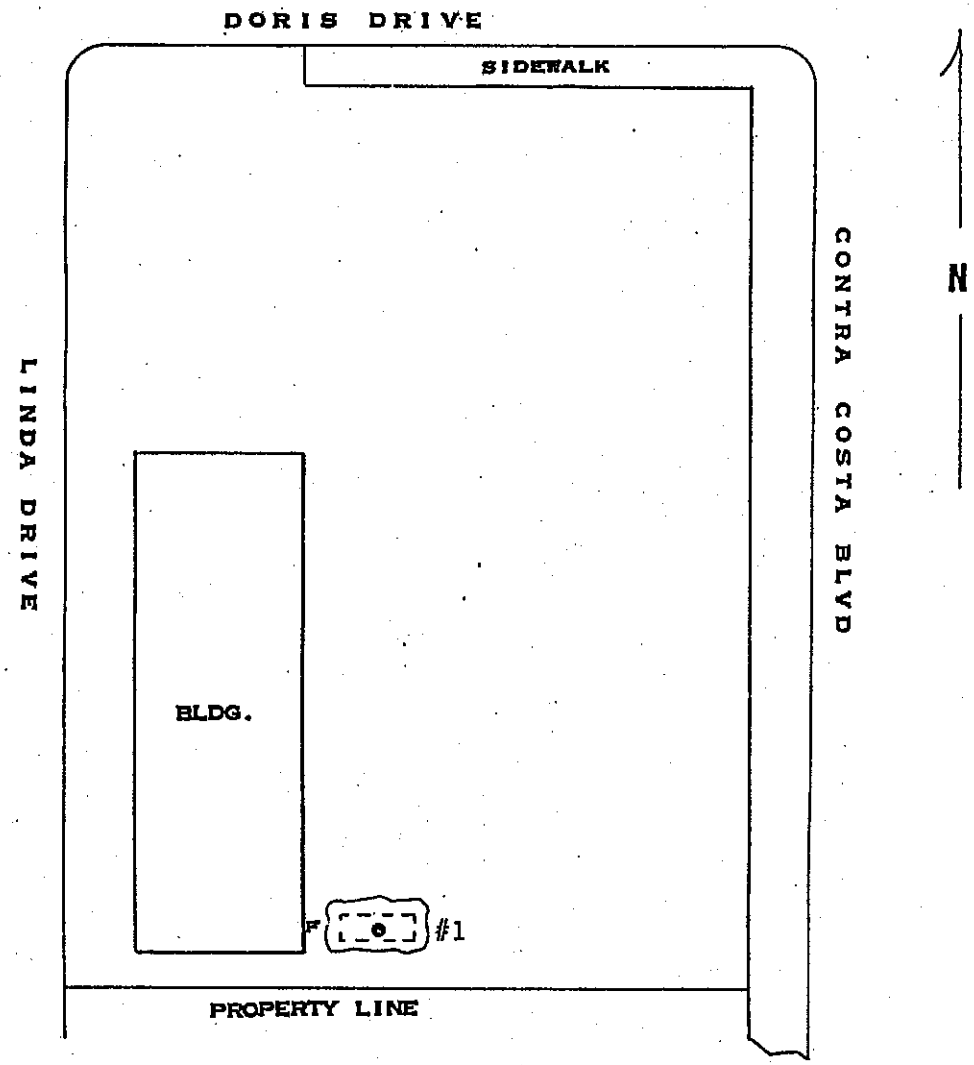
Robert B. Flay
Manager, Organics Department

RBF:sml

cc: Rich Blaine
Blaine Tech Service
P.O. Box 5745
San Jose, CA 95150

SAMPLING REPORT 86136B2 5-16-86 CHEVRON STATION NO. 6817, 1705 CONTRA COSTA BLVD., PLEASANT HILL, CA

SCALE: 0 10 20'



MAP REF: THOMAS BROS. CONTRA COSTA COUNTY P. 47 B-6

LEGEND: F = FILL PIPE

#1 SOIL FROM 8'
ANALYSIS FOR SEMI- AND NON-VOLATILE HYDROCARBONS DUE TO WASTE OIL AT THERMO ANALYTICAL, INC/ERG
TMA/ERG PROJECT NO. 7818-1

SAMPLING PERFORMED BY
RICHARD C. BLAINE

DIAGRAM PREPARED BY
TAMMIE STALLINGS

Tammie Stallings

TMA
Thermo Analytical Inc.

TMA/ERG
1400 West 53rd Street
Suite 460
Emeryville, CA 94608-2946

(415) 652-2300

June 2, 1986

Chevron USA
2 Annabel Lane, Suite #200
San Ramon, CA 94583

Attention: Daryl Fuerstenau

Report #7818 Release #24

Site Location: Chevron Station #6817, Contra Costa Blvd., Pleasant Hill.

RE: One (1) soil sample submitted on May 16, 1986 for routine waste oil analysis.

Procedure: The sample is analyzed for waste oil by following a modified EPA Method 3510 extraction procedure. The sample is extracted three times with hexane. The solvent is removed from the combined extracts and carbon disulfide is added. The solution is injected into a gas chromatograph fitted with a flame ionization detector. Quantitation is performed, as total hydrocarbon response, against a solution made from a known concentration of light machine oil. The limit of detection for this method of analysis is five parts per million (mg/kg).

The results are summarized in the table below:

ERG #	CLIENT ID	CONCENTRATION (mg/kg)
7818-1	86136 B 2 #1	11

Submitted by:

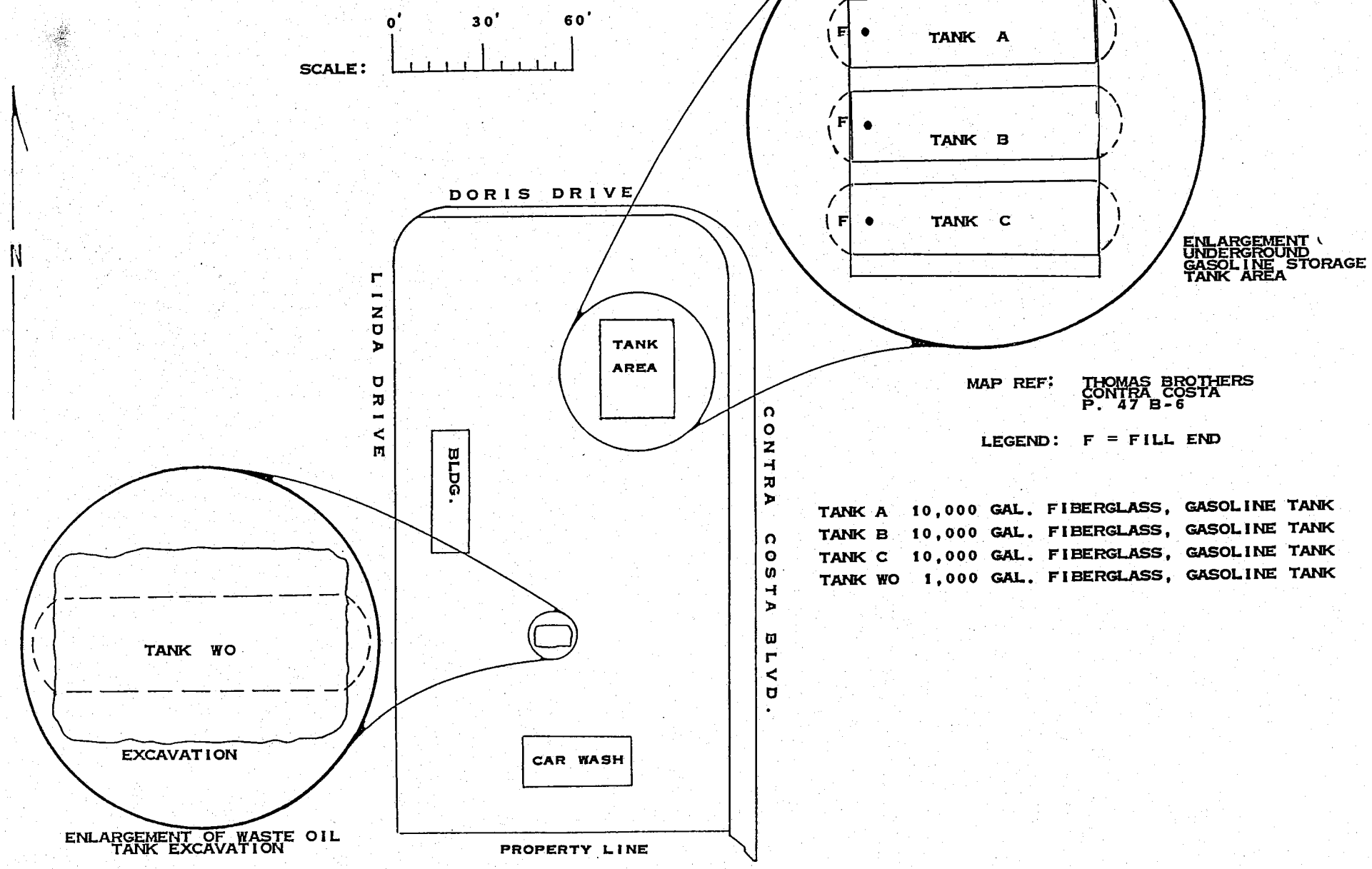
Robert B. Flay

Robert B. Flay
Manager, Organics Department

RBF:sml

cc: Rich Blaine
Blaine Tech Service
P.O. Box 5745
San Jose, CA 95150

DIAGRAM ONE

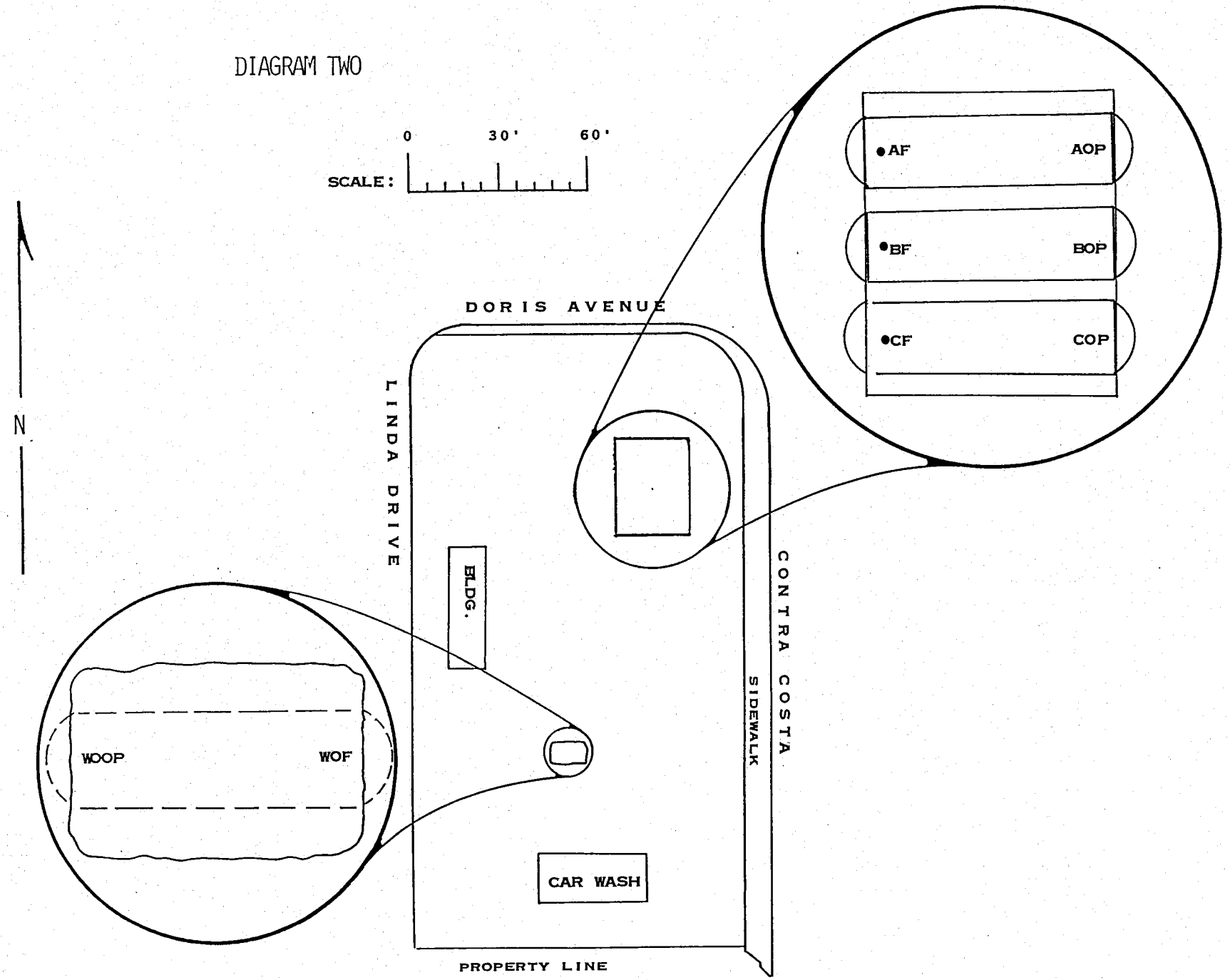


MAP REF: THOMAS BROTHERS CONTRA COSTA P. 47 B-6

LEGEND: F = FILL END

TANK A	10,000 GAL.	FIBERGLASS,	GASOLINE TANK
TANK B	10,000 GAL.	FIBERGLASS,	GASOLINE TANK
TANK C	10,000 GAL.	FIBERGLASS,	GASOLINE TANK
TANK WO	1,000 GAL.	FIBERGLASS,	GASOLINE TANK

DIAGRAM TWO


0
30'
60'
SCALE:
N
DORIS AVENUE
LINDA DRIVE
CONTRA COSTA
SIDEWALK
BLDG.
CAR WASH
PROPERTY LINE
AF
AOP
BF
BOP
CF
COP
WOOP
WOF

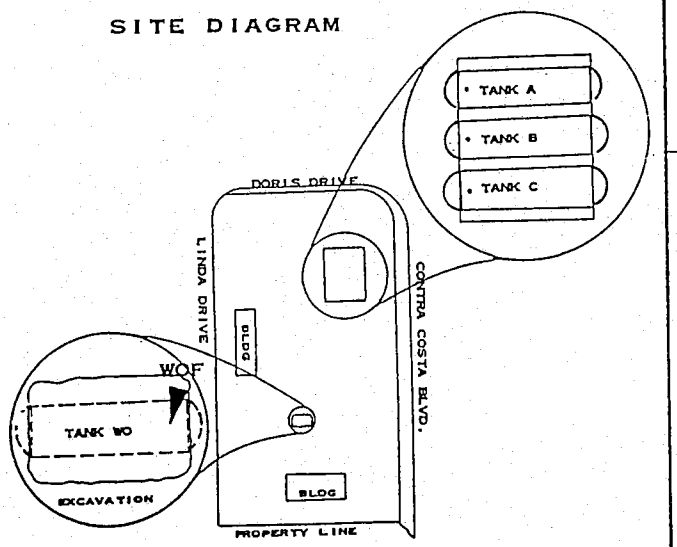
BLAINE
TECH SERVICES

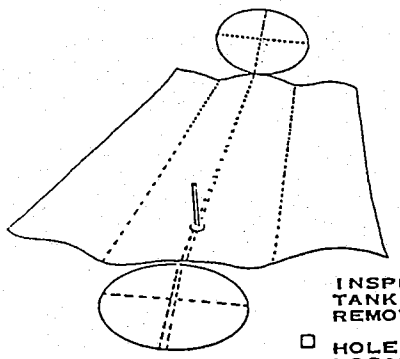
UNDERGROUND STORAGE TANK
REMOVAL AND SAMPLING LOG

TANK WO 1,000 GALLON WASTE OIL
FIBERGLASS CONSTRUCTION

TANK
WO

SITE DIAGRAM

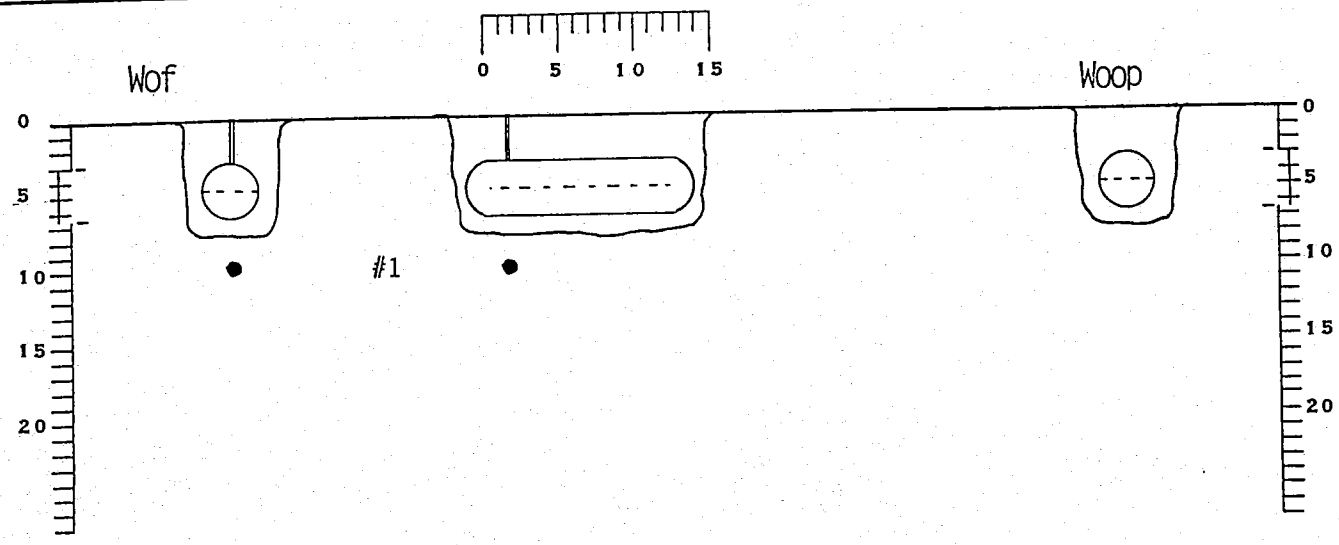




INSPECTION OF THE TANK FOLLOWING REMOVAL FOUND

□ HOLES IN THE LOCATIONS DEPICTED ON THE TSR PROJECTION

■ NO HOLES



I.D. GIVEN THIS SAMPLE AREA	SAMPLE DEPTH IN FT. BELOW GRADE	SAMPLING LOCATION DICTATED BY	TYPE & METHOD FOR THE SAMPLE OBTAINED	SAMPLE MATRIX	DATE SAMPLED	BTS CHAIN OF CUSTODY I.D.	BTS SAMPLE I.D.	NAME OF DOHS BNTL LABORATORY	LABORATORY SAMPLE I.D.	ANALYTICAL RESULTS (PARTS PER BILLION) PPM TPH-HBF DIESEL	PPM TOTAL OIL & GREASE	PPB EPA 8240 COMPOUNDS
WoF	10	STANDARD	INTERFACE	SOIL	1/6/88	88006-F-2	#1	ANAMETRIX	8801024-01	ND	50	SEE LAB REPORT

TABLE OF SAMPLING LOCATIONS AND ANALYTICAL RESULTS

I.D. GIVEN THIS SAMPLE AREA	SAMPLE DEPTH IN FT. BELOW GRADE	SAMPLING LOCATION DICTATED BY	TYPE & METHOD FOR THE SAMPLE OBTAINED	SAMPLE MATRIX	DATE SAMPLED	BTS CHAIN OF CUSTODY I.D.	BTS SAMPLE I.D.	NAME OF DOHS HMTL LABORATORY	LABORATORY SAMPLE I.D.	ANALYTICAL RESULTS IN PARTS PER MILLION -- PPM: TPH AS GAS	BEN-ZENE	TOL-UENE	XY-LENES	ETHYL BEN-ZENE
WF NORTH	---	ELECTIVE	BAILER	WATER	1/6/88	88006-F-2	NORTH	ANAMETRIX	8801024-02	18	1.1	3.4	3.6	0.5
WF MIDDLE	---	ELECTIVE	BAILER	WATER	1/6/88	88006-F-2	MIDDLE	ANAMETRIX	8801024-03	21	0.7	2.5	2.3	0.3
WF SOUTH	---	ELECTIVE	BAILER	WATER	1/6/88	88006-F-2	SOUTH	ANAMETRIX	8801024-04	17	0.6	2.0	2.2	ND

I.D. GIVEN THIS SAMPLE AREA	SAMPLE DEPTH IN FT. BELOW GRADE	SAMPLING LOCATION DICTATED BY	TYPE & METHOD FOR THE SAMPLE OBTAINED	SAMPLE MATRIX	DATE SAMPLED	BTS CHAIN OF CUSTODY I.D.	BTS SAMPLE I.D.	NAME OF DOHS HMTL LABORATORY	LABORATORY SAMPLE I.D.	ANALYTICAL RESULTS (PARTS PER BILLION): PPM TPH-HBF DIESEL	PPM TOTAL OIL & GREASE	PPB EPA 8240 COMPOUNDS
SOF	10	STANDARD	INTERFACE	SOIL	1/6/88	88006-F-2	#1	ANAMETRIX	8801024-01	ND	50	SEE LAB REPORT

ORGANICS ANALYSIS DATA SHEET - EPA METHOD 624/8240

ANAMETRIX, INC. (408) 629-1132

Sample I.D. : 96817 #1
Matrix : SOIL
Date sampled : 01-06-88
Date analyzed : 01-06-88
Dilution : NONE

Anametrix I.D: 8801024-01
Analyst : LM
Supervisor : PG
Date released: 02-02-88
Instrument : F1

CAS #	Compound Name	Rpt. Limit (ug/kg)	Amt. Found (ug/kg)
74-87-3	* Chloromethane	10	BRL
75-01-4	* Vinyl Chloride	10	BRL
74-83-9	* Bromomethane	10	BRL
75-00-3	* Chloroethane	10	BRL
75-69-4	* Trichlorofluoromethane	5	BRL
75-35-4	* 1,1-Dichloroethene	5	BRL
76-13-1	# Trichlorotrifluoroethane	5	BRL
67-64-1	**Acetone	20	BRL
75-15-0	**Carbondisulfide	5	BRL
75-09-2	* Methylene Chloride	5	BRL
156-60-5	* Trans-1,2-Dichloroethene	5	BRL
75-34-3	* 1,1-Dichloroethane	5	BRL
78-93-3	**2-Butanone	20	BRL
156-59-2	* Cis-1,2-Dichloroethene	5	BRL
67-66-3	* Chloroform	5	BRL
71-55-6	* 1,1,1-Trichloroethane	5	BRL
56-23-5	* Carbon Tetrachloride	5	BRL
71-43-2	* Benzene	5	BRL
107-06-2	* 1,2-Dichloroethane	5	BRL
79-01-6	* Trichloroethene	5	35
78-87-5	* 1,2-Dichloropropane	5	BRL
75-27-4	* Bromodichloromethane	5	BRL
110-75-8	* 2-Chloroethylvinylether	5	BRL
108-05-4	**Vinyl Acetate	10	BRL
10061-02-6	* Trans-1,3-Dichloropropene	5	BRL
108-10-1	**4-Methyl-2-Pentanone	10	BRL
108-88-3	* Toluene	5	BRL
10061-01-5	* cis-1,3-Dichloropropene	5	BRL
79-00-5	* 1,1,2-Trichloroethane	5	BRL
127-18-4	* Tetrachloroethene	5	200
591-78-6	**2-Hexanone	10	BRL
124-48-1	* Dibromochloromethane	5	BRL
108-90-7	* Chlorobenzene	5	BRL
100-41-4	* Ethylbenzene	5	BRL
1330-20-7	**Total Xylenes	5	BRL
100-42-5	**Styrene	5	BRL
75-25-2	* Bromoform	5	BRL
79-34-5	* 1,1,2,2-Tetrachloroethane	5	BRL
541-73-1	* 1,3-Dichlorobenzene	5	BRL
106-46-7	* 1,4-Dichlorobenzene	5	BRL
95-50-1	* 1,2-Dichlorobenzene	5	BRL

CAS #	Surrogate Compounds	Limits	%Recovery
17060-07-0	1,2-Dichloroethane-d4	76-131%	96%
2037-26-5	Toluene-d8	77-124%	92%
460-00-4	p-Bromofluorobenzene	57-126%	88%

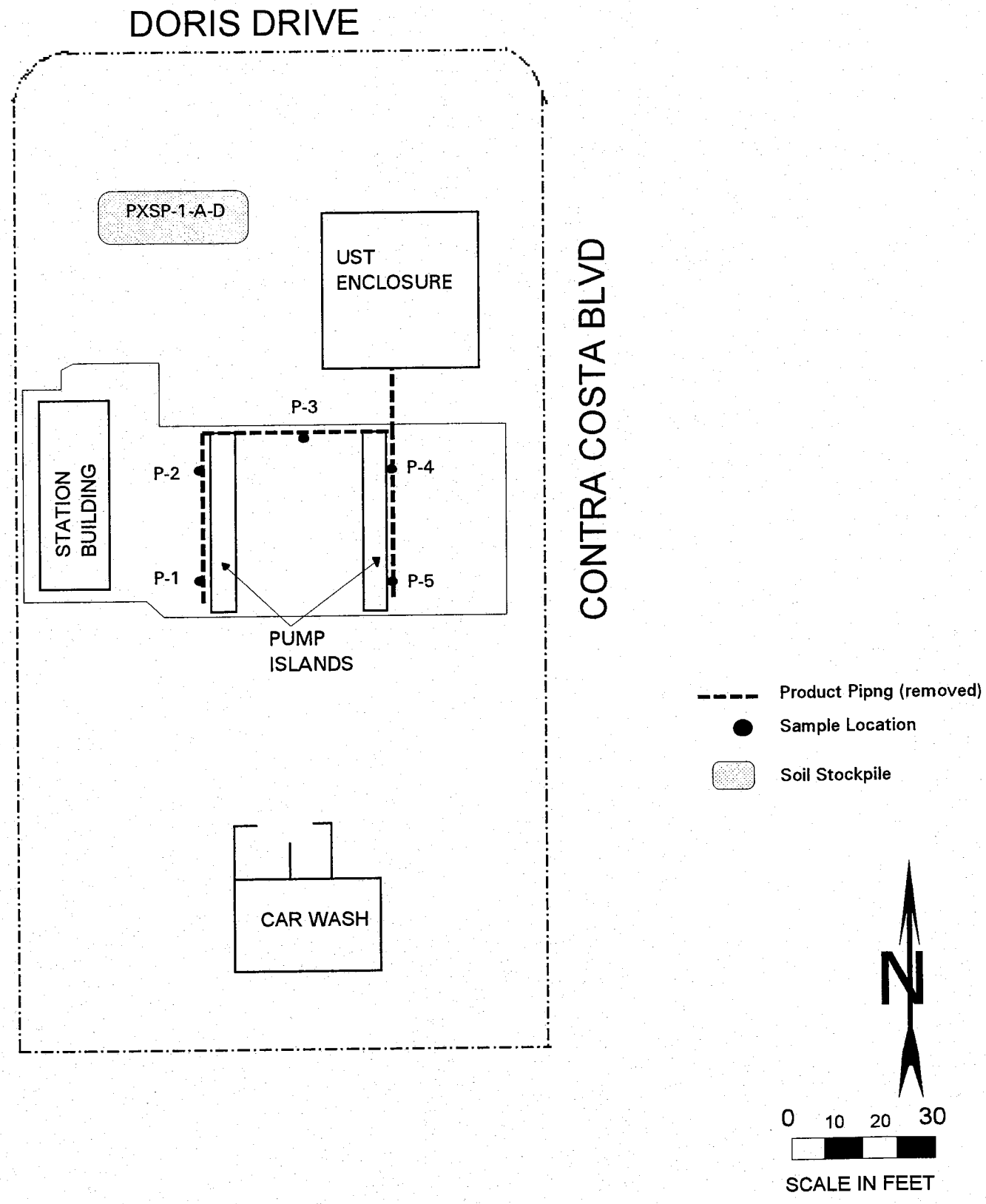
* A Method 624 priority pollutant compound (Federal Register, 10/26/84)
** A compound on the U.S. EPA CLP Hazardous Substance List (HSL)
\# A compound added by Anametrix, Inc. BRL : Below reporting limit.

TABLE 5 CONCENTRATIONS OF VOLATILE HYDROCARBONS (ug/kg) IN SOIL SAMPLES FROM CHEVRON SS 9-6817, PLEASANT HILL, CALIFORNIA, AUGUST 1988

	EA1 Depth (feet)				EA2 Depth (feet)				EA3 Depth (feet)			
Constituents	5-10	15	20-25	30	10	15	20	25	5-10	15	20-25	30
TPH	120	<1,000	<50	<50	<50	<50	<50	<50	770	130	<50	<50
Benzene	<0.2	<500	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.5	<0.5
Toluene	<0.2	<500	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.5	<0.5
Ethylbenzene	<0.2	<500	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.5	<0.5
Xylenes	<0.2	<500	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.5	<0.5
Vinyl chloride	<2	<1,000	<0.5	<2	<2	<2	<2	<2	<2.3	<2.5	<0.5	<0.5
t-1,2-dichloro-ethylene	<0.5	<500	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2.3	<2.5	<0.5	<0.5
Trichloroethylene	<0.5	<500	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	86	4.9	0.6	<0.5
Tetrachloroethylene	<0.5	<500	<0.5	<0.5	6.6	64	1.1	0.8	328	122	8.0	3.2
Chloromethane	<2	<500	<0.5	<2	<2	<2	<2	<2	<2.3	<2.5	<0.5	<0.5
Methylene chloride	<0.5	<500	21.1	<0.5	<0.5	<0.5	1.1	1.7	<2.3	<2.5	<0.5	<0.5
Chloroform	<0.5	<500	<0.5	<0.5	<0.5	<0.5	1.5	11	<2.3	<2.5	<0.5	<0.5
1,2-dichloroethane	<0.5	<500	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2.3	<2.5	<0.5	<0.5

TABLE 2 CONCENTRATIONS OF VOLATILE HYDROCARBONS (mg/kg) IN SOIL SAMPLES FROM WELL BOREHOLES EA4 AND EA5, CHEVRON SS 9-6817, PLEASANT HILL, CALIFORNIA, 1-2 JUNE 1989

Constituent	EA4		EA5	
	7.0 feet	10.0 feet	7.5 feet	12.5 feet
TPH	<1	7.60	<1	<1
Benzene	<0.002	<0.002	<0.002	<0.002
Toluene	<0.002	<0.002	<0.002	<0.002
Ethylbenzene	<0.002	<0.002	<0.002	<0.002
Xylenes	<0.002	0.041	<0.002	<0.002
Vinyl chloride	<0.020	<0.020	<0.020	<0.020
t-1,2-dichloroethylene	<0.005	<0.005	<0.005	<0.005
Trichloroethylene	<0.005	<0.005	<0.005	<0.005
Tetrachloroethylene	<0.005	<0.005	<0.005	<0.005
Chloromethane	<0.020	<0.020	<0.020	<0.020
Methylene chloride	<0.005	<0.005	<0.005	<0.005
Chloroform	<0.005	<0.005	<0.005	<0.005
1,2-dichloroethane	<0.005	<0.005	<0.005	<0.005



Touchstone Developments
Environmental Management

SAMPLE LOCATIONS

CHEVRON SERVICE STATION # 9-6817
1705 Contra Costa Blvd
Pleasant Hill, California

FIGURE
2

PROJECT NO.	DATE	DRAWN BY:	BASE MAP:
6819-1	December 1995	AMD	BASE MAP:Chevron Blueprint

TABLE A
PRODUCT LINE REMOVAL SOIL SAMPLING SUMMARY

CHEVRON STATION 9-6817
Walnut Creek, California

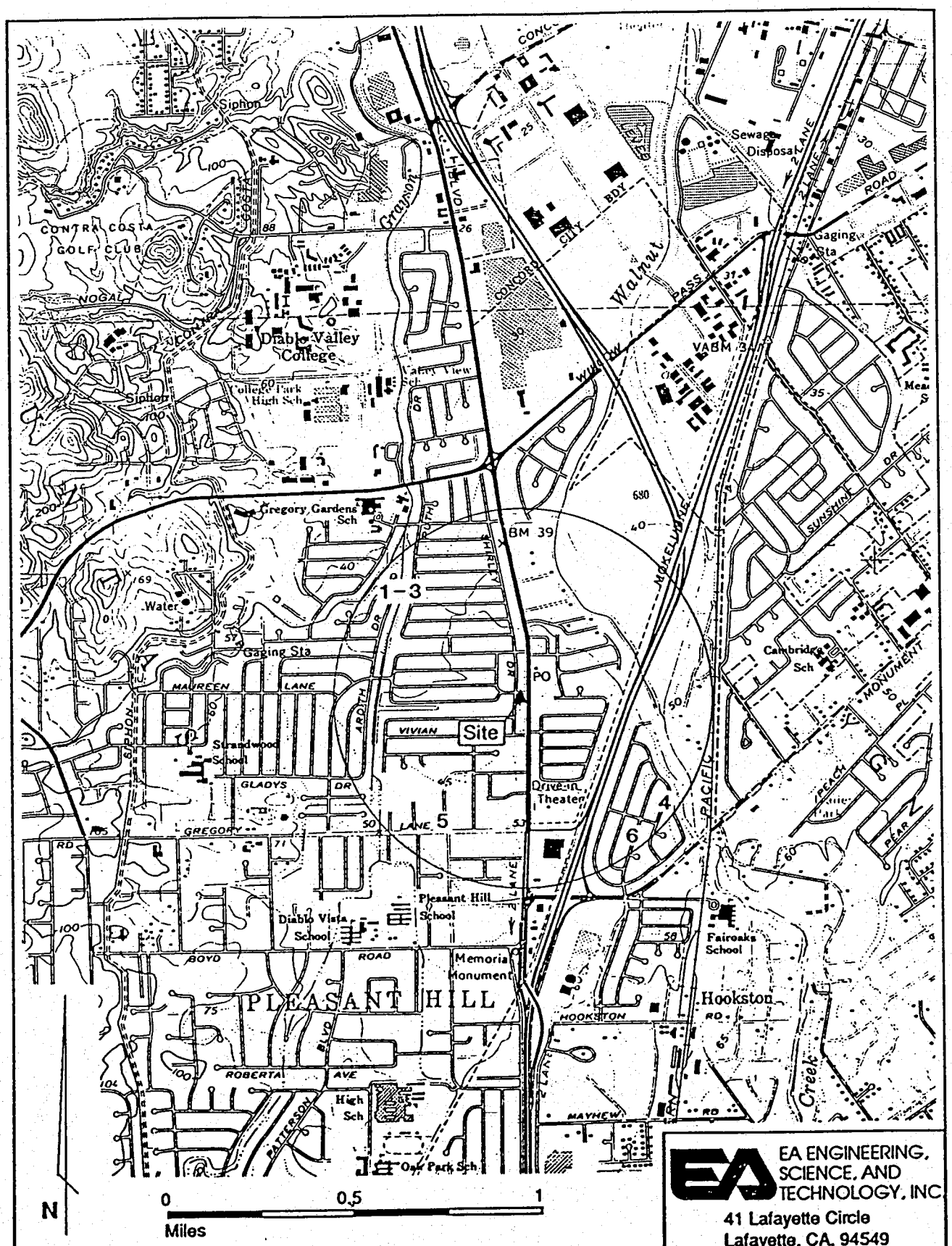
PUMP ISLAND/PIPING EXCAVATION SAMPLING SUMMARY

SAMPLE ID	DEPTH (ft.)	LAB	DATE	TPH - gasoline (ppm)	Benzene (ppm)	Toluene (ppm)	Ethyl-benzene (ppm)	Xylene (ppm)	Lead (ppm)
P-1	3.5	Sequoia	11/9/95	ND	ND	ND	ND	ND	7.1
P-2	3.5	Sequoia	11/9/95	7.9	0.0096	0.014	0.032	0.015	4.9
P-3	3.5	Sequoia	11/9/95	80	2.2	0.32	1.6	3.7	3.6
P-4	3.5	Sequoia	11/9/95	ND	ND	ND	ND	0.0074	2.5
P-5	3.5	Sequoia	11/9/95	ND	0.022	0.0080	0.0056	ND	ND

STOCKPILE

SAMPLE ID	LAB	DATE	TPH - gasoline (ppm)	Benzene (ppm)	Toluene (ppm)	Ethyl-benzene (ppm)	Xylene (ppm)	Lead (ppm)
PXSP-A-D	Sequoia	11/9/95	97	ND	0.11	0.89	7.6	ND

TPH-Gasoline = Total petroleum hydrocarbons calculated as gasoline
ND=Not detected at or above the laboratory detection limits
NA = Analysis not requested
ppm = parts per million



EA ENGINEERING, SCIENCE, AND TECHNOLOGY, INC.
41 Lafayette Circle
Lafayette, CA. 94549

Drawn TRO	Date 7 May 89
Reviewed KSK	Date 5/9/89

Figure 1. Location of Chevron SS 9-6817 and groundwater wells within 0.5 miles of the station, September 1988. (Map well numbers correspond to well numbers in table 1.)

TABLE 1 INFORMATION FOR WELLS WITHIN 0.5 MILE OF CHEVRON SERVICE STATION 9-6817, PLEASANT HILL, CALIFORNIA, OCTOBER 1988

Well Number[a]	Well Location	Distance From Station (feet)	Direction From Station	Year Drilled	Permitted Use
1	1791 Ardith	2,400	NW	1950	irrigation
2	1767 Ardith	2,400	NW	1951	irrigation
3	1772 Ardith	2,400	NW	1951	irrigation
4	112 Adela Court	2,500	SE	1952	irrigation
5*	Gregory and Cleveland	2,250	SW	1985	--
6	2185 Ramona Drive	2,500	SE	1952	--
7	2W-10G	**	SE	1967	test

a. Well numbers correspond to map well numbers on Figure 1.
* Destroyed.
** Unknown; estimated >2,000.
-- No data available.

Source: California Department of Water Resources, Sacramento, California, boring log files.

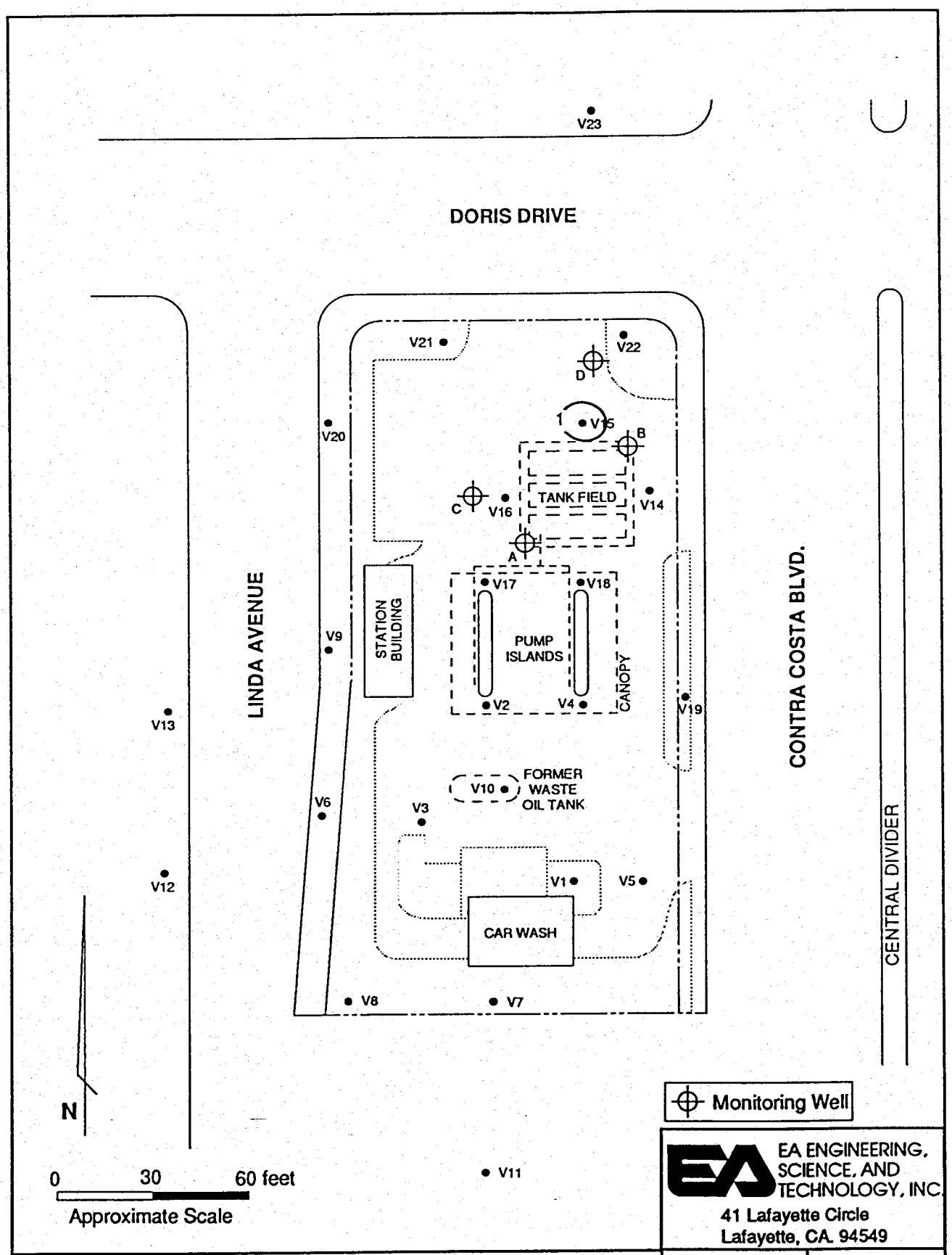


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Figure 8. Isoconcentration contours (ppm) of benzene in the shallow soil gas at Chevron SS 9-6817, Pleasant Hill, CA. May 1988.

Drawn	Date
TRW	8 May 89
Reviewed	**Date**
KSK	5/9/89

TABLE 2 (Cont.)

Sample Location	Depth (ft)	Peaks Prior to TCE (ppm)[a]	TCE (ppm)	PCE (ppm)	Total Detected Halogenated Hydrocarbons (ppm)[a]
MWA	9	0.2	<0.1	<0.1	0.2
MWB	8	<0.1	<0.1	0.1	0.1
MWC[1]	9	0.5	0.3	0.2	1
MWD	8	0.3	0.5	<0.1	0.8
MWE	2.5	----	----	----	----

TABLE 2 CONCENTRATIONS OF HYDROCARBON CONSTITUENTS IN SOIL VAPOR AT CHEVRON SERVICE STATION 9-6817, PLEASANT HILL, CALIFORNIA, 29 OCTOBER 1987

Sample Location	Depth (ft)	Peaks Prior to Benzene (ppm)[a]	Benzene (ppm)	Toluene (ppm)	Total Detected Hydrocarbons (ppm)[a]
MWA	1	200	20	30	330
MWB	1	570	<20	<20	900
MWC	1	<1	<1	<1	<1
MWD	1	1,500	160	300	2,200
V1/A	3	100	120	<10	250
V1/B	5	5	5	<5	10
V1/C	8	5	<10	10	10
V2	5.5	<1	<1	<1	<1
V3	3	<1	<1	<1	<1
V4	3	<1	<1	<1	<1
V5	3	<1	<1	<1	<1
V6	8	<1	<1	<1	<1
V7/A	3	50	5	10	70
V7/B	8	5	<1	<1	<10
V8/A	4	<1	<1	<1	<5
V8/B	8	<1	<1	<1	<1
V9	8	<1	<1	<1	<1
V10	5.5	<1	<1	<1	<1
V11	5.5	<1	<1	<1	<1

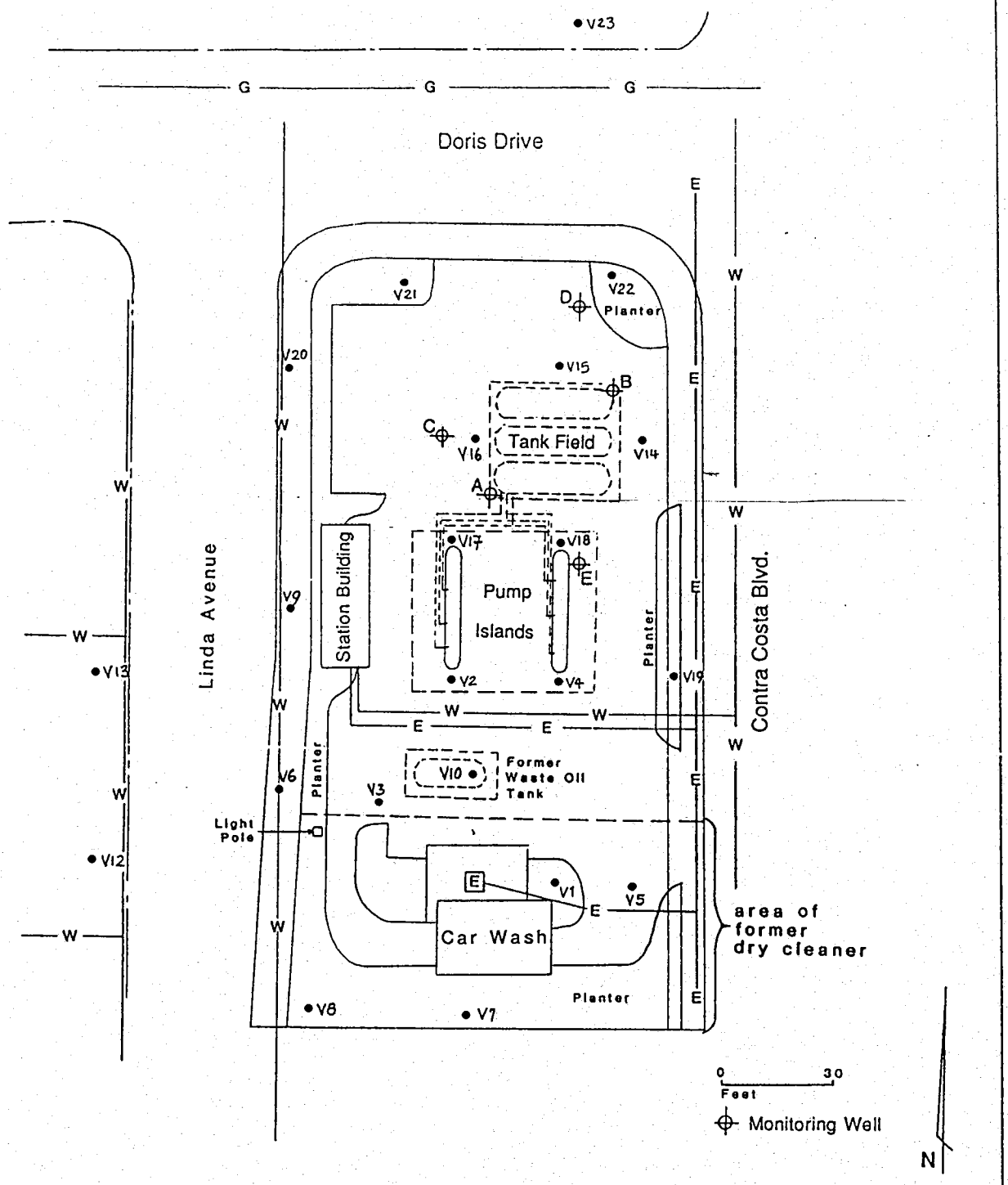
BLANK DATA

Test Time	Peaks Prior to Benzene (VS)	Benzene (ppm)	Toluene (ppm)
0912	<0.1	<0.1	<0.1

PERCENTAGE OF STANDARD RECOVERED

Test Time	Standard	
	Benzene	Toluene
0939	100	100
1153	100	100
1433	110	109

a. Based on the volt-sec:ppm response ratio for benzene (see text).



Utility Lines:
- E — electricity
- W — water
- G — gas

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Figure 1. Site facilities and soil vapor sampling points at Chevron SS 9-6817, Pleasant Hill, California.

Drawn	Date
Reviewed	Date

TABLE 2 CONCENTRATIONS OF HALOGENATED HYDROCARBONS IN SOIL VAPOR AT CHEVRON SS 9-6817, 1705 CONTRA COSTA BLVD. PLEASANT HILL, CALIFORNIA, 3-4 MAY 1988

Sample Location	Depth (ft)	Peaks Prior to TCE (ppm)[a]	TCE (ppm)	PCE (ppm)	Total Detected Halogenated Hydrocarbons (ppm)[a]
V1	7.5	1.2	0.2	2.8	4.2
V2/A	3	12	0.7	5.9	19
V2/B	8	0.5	0.4	1.5	2.4
V3/A	3	1.6	14.0	21[3]	37
V3/B	5.5	<0.1	1.7	11	13
V3/C	8	0.5	13	130[3]	140
V4/A	3	<0.2	<0.1	0.4	0.6
V4/B	8	<0.2	<0.1	0.1	0.3
V5/A	3	<0.1	<0.1	0.9	1.0
V5/B	8	<0.1	<0.1	0.2	0.2
V6/A	3	<0.1	0.5	4.2	4.7
V6/B	5.5	0.1	0.8	10	11
V6/C	8	0.2	0.8	10	11
V7	7.5	0.5[1]	0.1[1]	1.8[1]	1
V8/A	5.5	0.4	<0.1	0.2	0.6
V8/B	8	0.7	<0.1	0.9	1.6
V9	8	<0.1	0.2	1.7[1]	2.0
V10/A[2]	8	0.5	20	470[3]	490
V11	8	<0.1	<0.1	0.5	0.5
V12	8	<0.1[1]	0.1[1]	0.4[1]	0.5
V13	7.5	<0.1	<0.1	0.2	0.2
V14	8	<0.1	<0.1	0.6	0.6
V15	7.5	<0.1	0.5	2.1	2.6
V16	8	0.3	<0.1	0.4	0.7
V17	2.5	1.2[1]	0.2[1]	0.9[1]	2.3
V18	2.5	<0.1	<0.1	0.4	0.4
V19	7.5	0.1[1]	0.5[1]	1.3[1]	<0.1
V20	8	<0.1	<0.1	<0.1	<0.1
V21/A	5.5	<0.1	<0.1	<0.1	<0.1
V21/B	7.5	<0.1	<0.1	<0.1	<0.1
V22/A	5.5	<0.1	<0.1	<0.1	<0.1
V22/B	7.5	<0.1	<0.1	<0.1	0.7
V23	8	<0.1	<0.1	<0.1	<0.1
V10BW[4]	10.5	<0.1	14	30-60	45-75

1. Standard shot prior to this sample.
2. Unknown halogenated hydrocarbon eluted with PCE.
3. Large PCE values are reported from FID detector.
4. Headspace above ground-water sample (pulled into probe at V10).

TABLE 3 CONCENTRATIONS OF PETROLEUM HYDROCARBON CONSTITUENTS IN SOIL VAPOR AT CHEVRON SS 9-6817, 1705 CONTRA COSTA BOULEVARD, PLEASANT HILL, CALIFORNIA, 3, 4 MAY 1988

Sample Location	Depth (ft)	Peaks Prior to Benzene[a] (ppm)[b]	Benzene (ppm)	Toluene (ppm)	o-Xylene (ppm)	m,p-Xylene (ppm)	Ethyl-benzene (ppm)	Peaks Not Otherwise Identified (ppm)[b]	Total Volatile Hydro-carbons (ppm)[b]
V1	7.5	48	<1	<1	<1	<1	<1	<1	48
V2/A	3	4	<1	<1	<1	<1	<1	<1	5
V2/A*		3	<1	<1	<1	<1	<1	<1	4
V2/B*	8	250	<1	3	1	<1	<1	32	300
V3/A	3	3	<1	<1	<1	<1	<1	11	14
V3/B	5.5	42	<1	<1	<1	<1	<1	4	47
V3/C	8	67	<1	<1	<1	<1	<1	36	100
V4/A	3	2	<1	<1	<1	<1	<1	<1	2
V4/B*	8	5	<1	<1	<1	<1	<1	<1	5
V4/B*		1	<1	<1	<1	<1	<1	<1	1
V5/A	3	1	<1	<1	<1	<1	<1	<1	1
V5/B	8	5	<1	<1	<1	<1	<1	<1	5
V6/A	3	3	<1	<1	<1	<1	<1	4	7
V6/B	5.5	4	<1	<1	<1	<1	<1	3	6
V7	7.5	7	<1	<1	<1	<1	<1	<1	8
V8/A	5.5	2	<1	<1	<1	<1	<1	<1	2
V9	8	2	<1	<1	<1	<1	<1	<1	2
V10*	8	1,500	<1	55	3	<1	3	640	2,100**
V11*	8	1	<1	<1	<1	<1	<1	<1	1
V12*	8	5	<1	<1	<1	<1	<1	<1	5
V14*	8	2	<1	<1	<1	<1	<1	<1	2

a. Early peaks from blank data subtracted from total peaks prior to benzene.
b. Quantification based on V-sec:ppm ratio for benzene (see text).
* Sample conducted on 4 May; sample V4/B was taken in duplicate.
** Based on the location of this point and the ECD results, it is believed that part of the total detected hydrocarbons consist of chlorinated hydrocarbons.

TABLE 3 (CONT.)

Sample Location	Depth (ft)	Peaks Prior to Benzene[a] (ppm)[b]	Benzene (ppm)	Toluene (ppm)	o-Xylene (ppm)	m,p-Xylene (ppm)	Ethyl-benzene (ppm)	Peaks Not Otherwise Identified (ppm)[b]	Total Volatile Hydro-carbons (ppm)[b]
V15*	7.5	18	1	<1	<1	<1	<1	<1	19
V16*	8	62	<1	<1	<1	<1	<1	2	64
V17*	2.5	3	<1	<1	<1	<1	<1	<1	3
V18*	2.5	14	<1	6	<1	<1	<1	14	35
V19*	7.5	1	<1	<1	<1	<1	<1	<1	1
V20*	8	1	<1	<1	<1	<1	<1	<1	1
V21/A*	5.5	1	<1	<1	<1	<1	<1	<1	1
V21/B*	7.5	1	<1	<1	<1	<1	<1	<1	1
V22/A*	5.5	2	<1	<1	<1	<1	<1	<1	2
V22/B*	7.5	1	<1	<1	<1	<1	<1	<1	1
V23*	8	1	<1	<1	<1	<1	<1	<1	1

BLANK DATA

Date	Test Time	Peaks Prior to Benzene (ppm)[b]	Benzene (ppm)	Toluene (ppm)	o-Xylene (ppm)	m,p-Xylene (ppm)	Ethyl-benzene (ppm)	Peaks Not Otherwise Identified (ppm)[b]	Total Volatile Hydro-carbons (ppm)[b]
05/03/88	0920	1	<0.1	<0.1	<0.1	<0.1	<0.1	0.3	1
	1128	2	<0.1	<0.1	<0.1	<0.1	<0.1	0.3	2
	1409	3	<0.1	<0.1	<0.1	<0.1	<0.1	0.4	4
	1534	2	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	2
	1710	2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	2

TABLE 3 (CONT.)

BLANK DATA

Date	Test Time	Peaks Prior to Benzene (ppm)[b]	Benzene (ppm)	Toluene (ppm)	o-Xylene (ppm)	m,p-Xylene (ppm)	Ethyl-benzene (ppm)	Peaks Not Otherwise Identified (ppm)[b]	Total Volatile Hydro-carbons (ppm)[b]
05/04/88	0912	2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	2
	1047	2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	2
	1220	2	<0.1	<0.1	<0.1	<0.1	<0.1	0.3	2
	1351	3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	3
	1543	2	<0.1	<0.1	<0.1	<0.1	<0.1	0.5	3
	1714	3	<0.1	<0.1	<0.1	<0.1	<0.1	0.3	3

PERCENTAGE OF STANDARD RECOVERED

Date	Test Time	Benzene (ppm)	Toluene (ppm)	o-Xylene (ppm)	m,p-Xylene (ppm)	Ethyl-benzene (ppm)	TCE	PCE
05/03/88	0939*	100	100	100	100	100		
	1116	121	110	126	123	118		
	1358**	—	—	—	—	—	100	100
	1446	116	133	118	120	117		
	1523	—	—	—	—	—	106	134
	1659	85	73	73	75	78		
05/04/88	0924*	100	100	100	100	100		
	1021**	—	—	—	—	—	100	100
	1055	123	120	101	114	145		
	1250	116	104	91	102	103		
	1446	115	107	99	106	106		
	1625	106	97	88	85	98		

* Aromatic hydrocarbon calibration.
** TCE, PCE calibration.

c45/96817

TABLE 3 (CONT.)

GASOLINE STANDARD (CHEVRON SUPER UNLEADED)

Date	Peaks Prior to Benzene[a] (ppm)[b]	Benzene (ppm)	Toluene (ppm)	o-Xylene (ppm)	m,p-Xylene (ppm)	Ethyl-benzene (ppm)	Peaks Not Otherwise Identified (ppm)[b]	Total Volatile Hydro-carbons (ppm)[b]
3 May	120,000	9,400	11,000	640	1,600	300	9,000	150,000
4 May	150,000	12,000	20,000	1,800	4,300	1,000	10,000	190,000

TABLE 4 CONCENTRATIONS OF HALOGENATED HYDROCARBONS IN SOIL VAPOR AT CHEVRON SS 9-6817, 1705 CONTRA COSTA BLVD. PLEASANT HILL, CALIFORNIA, 3-4 MAY 1988

Sample Location	Depth (ft)	Peaks Prior to TCE (ppm)[a]	TCE (ppm)	PCE (ppm)	Total Detected Halogenated Hydrocarbons (ppm)[a]
V1	7.5	1.2	0.2	2.8	4.2
V2/A	3	12	0.7	5.9	19
V2/B	8	0.5	0.4	1.5	2.4
V3/A	3	1.6	14.0	21*	37
V3/B	5.5	<0.1	1.7	11	13
V3/C	8	0.5	13	130*	140
V4/A	3	<0.2	<0.1	0.4	0.6
V4/B	8	<0.2	<0.1	0.1	0.3
V5/A	3	<0.1	<0.1	0.9	1.0
V5/B	8	<0.1	<0.1	0.2	0.2
V6/A	3	<0.1	0.5	4.2	4.7
V6/B	5.5	0.1	0.8	10	11
V6/C	8	0.2	0.8	10	11
V7	7.5	0.5*	0.1*	1.8*	1
V8/A	5.5	0.4	<0.1	0.2	0.6
V8/B	8	0.7	<0.1	0.9	1.6
V9	8	<0.1	0.2	1.7*	2.0
V10	8	0.5	20	470**	490
V11	8	<0.1	<0.1	0.5	0.5
V12	8	<0.1*	0.1*	0.4*	0.5
V13	7.5	<0.1	<0.1	0.2	0.2
V14	8	<0.1	<0.1	0.6	0.6
V15	7.5	<0.1	0.5	2.1	2.6
V16	8	0.3	<0.1	0.4	0.7
V17	2.5	1.2*	0.2*	0.9*	2.3
V18	2.5	<0.1	<0.1	0.4	0.4
V19	7.5	0.1*	0.5*	1.3*	<0.1
V20	8	<0.1	<0.1	<0.1	<0.1
V21/A	5.5	<0.1	<0.1	<0.1	<0.1
V21/B	7.5	<0.1	<0.1	<0.1	<0.1
V22/A	5.5	<0.1	<0.1	<0.1	<0.1
V22/B	7.5	<0.1	<0.1	<0.1	0.7
V23	8	<0.1	<0.1	<0.1	<0.1

a.
* PCE value estimated from FID detector response.
** Unknown halogenated hydrocarbon eluted with PCE.

TABLE 4 (CONT.)

BLANK DATA

Date	Test Time	Peaks Prior to TCE (ppm)[a]	TCE (ppm)	PCE (ppm)	Total Detected Halogenated Hydrocarbons (ppm)[a]
05/03/88	0932	0.1	0.15	<0.1	.2
	1033	0.4	0.16	<0.1	0.5
	1042	0.15	<0.1	<0.1	0.15
	1318	<0.11	<0.1	0.1	0.1
	1403	0.2	<0.1	0.1	0.3
	1457	<0.1	<0.1	--	<0.1
	1533	<0.1	<0.1	0.1	0.1
	1711	0.1	<0.1	0.2	0.3
05/04/88	0910	<0.1	<0.1	0.1	0.1
	1047	<0.1	<0.1	0.1	0.1
	1220	<0.1	<0.1	<0.1	<0.1
	1350	<0.1	<0.1	<0.1	<0.1
	1541	<0.1	<0.1	<0.1	<0.1
	1634*	<0.1	<0.1	0.3	0.3
	1712	<0.1	<0.1	<0.1	<0.1

PERCENTAGE OF STANDARD RECOVERED

Date	Test Time	Standard TCE	Standard PCE
05/03/88	0943**	100	100
	1018	84	83
	1210	83	80
	1351***	100	100
	1450	113	116
	1606	117	117
	1729	120	121

a. Quantification based on volt-sec:ppm ratio for TCE (see text). Initial "air" spike not included in summation.
** Calibrated.
*** Changed ECD system parameters. Recalibrated.
-- Not quantifiable.

TABLE 4 (CONT.)

PERCENTAGE OF STANDARD RECOVERED

Date	Test Time	Standard TCE	Standard PCE
05/04/88	0902*	100	100
	1014****	57	63
	1021	80	93
	1055	87	92
	1250	90	89
	1445	97	92
	1624	96	89

a. Initial "air" spike not included in summation.
* Residual PCE present from standard injection at 1624.
**** Poor injection--reinjected at 1021.

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA
CHEVRON SERVICE STATION 96817
1705 CONTRA COSTA BOULEVARD
PLEASANT HILL, CALIFORNIA

					HYDROCARBONS	*PRIMARY VOCS*				*OXYGENATE COMPOUNDS*								*ADDITIONAL VOCS*							
Location	Date	*TOC*	*DTW*	*GWE*	*TPH-GRO*	*B*	*T*	*E*	*X*	*MTBE*	*Ethanol*	*TBA*	*DIPE*	*ETBE*	*TAME*	*1,2-DCA*	*EDB*	*TCE*	*PCE*	*T-1,2-DCE*	*VC*	*C-1,2-DCE*	*CHB*	*CF*	*1,1-DCE*
	Units	*ft*	*ft*	*ft-amsl*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*
EA-5	06/12/1989	107.93	11.86	96.07	<250	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	<0.5	<5.0	<5.5	<10	6.0	-	-	-
EA-5	06/20/1989	107.93	11.87	96.06	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EA-5	09/19/1989	107.93	12.18	95.75	<250	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	<0.5	2.2	<0.5	<2.0	-	-	-	-
EA-5	12/28/1989	107.93	12.72	95.21	<250	<0.5	0.8	<0.5	0.5	-	-	-	-	-	-	-	-	2.0	<0.5	<0.5	<2.0	-	-	-	-
EA-5	06/06/1990	107.93	12.13	95.80	<50	<0.5	<0.5	<0.5	1.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EA-5	09/11/1990	107.93	13.00	94.93	<50	<0.5	<0.5	<0.5	0.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EA-5	12/19/1990	107.93	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EA-5	03/31/1991	107.93	11.14	96.79	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	<0.5	-	8.0	<0.5	1.0	<1.0	8.0	<0.5	-	-
EA-5	06/18/1991	107.93	12.66	95.27	<50	1.4	0.6	0.9	3.2	-	-	-	-	-	-	<0.5	-	13	0.9	2.0	<1.0	13	<0.5	<0.5	-
EA-5	08/29/1991	107.93	13.59	94.34	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	<0.5	-	23	1.3	3.7	<1.0	20	<0.5	<0.5	<0.5
EA-5	11/04/1991	107.93	13.64	94.29	<50	<0.5	<0.5	<0.5	1.0	-	-	-	-	-	-	<0.5	-	22	3.1	4.4	<1.0	16	<0.5	<0.5	<0.5
EA-5	01/29/1992	107.93	13.34	94.59	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	<0.5	-	55	1.5	6.7	<1.0	26	<0.5	<0.5	<0.5
EA-5	05/12/1992	107.93	12.54	95.39	72	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	<1.0	-	62	6.0	11	2.20	35	<1.0	<1.0	<1.0
EA-5	08/18/1992	107.93	13.78	94.15	70	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	<0.5	-	41	5.6	7.8	1.10	24	<0.5	<0.5	<0.5
EA-5	12/31/1992	107.93	12.85	95.08	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	<0.5	-	42	4.4	6.9	0.80	25	<0.5	<0.5	<0.5
EA-5	03/25/1993	107.93	10.95	96.98	54	0.8	<0.5	<0.5	<1.5	-	-	-	-	-	-	<2.5	-	74	9.9	7.5	<5.0	41	<2.5	<2.5	<2.5
EA-5	06/16/1993	107.93	12.00	95.93	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	<0.5	-	<0.5	9.0	13	4.00	58	<0.5	<0.5	<0.5
EA-5	10/06/1993	107.93	13.00	94.93	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	<0.5	-	58	9.0	11	1.00	38	<0.5	<0.5	<0.5
EA-5	02/08/1994	107.93	12.71	95.22	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	<0.5	-	53	11	9.0	3.00	28	<0.5	<0.5	0.7
EA-5	06/15/1994	107.93	12.64	95.29	<50	<0.5	<0.5	<0.5	0.6	-	-	-	-	-	-	1.0	-	47	10	8.0	3.00	<0.5	<0.5	<0.5	0.6
EA-5	08/24/1994	107.93	13.04	94.89	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	1.0	-	42	11	9.0	1.00	29	<0.5	<0.5	<0.5
EA-5	12/15/1994	107.93	12.68	95.25	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	1.3	-	42	8.5	8.2	<1.0	25	<0.5	<0.5	0.5
EA-5	02/27/1995	107.93	11.09	96.84	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	<2.5	-	39	5.8	5.0	<2.5	16	<2.5	<2.5	<2.5
EA-5	05/18/1995	107.93	10.99	96.94	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	<1.7	-	81	17	14	<1.7	35	<1.7	<1.7	<1.7
EA-5	08/24/1995	107.93	12.11	95.82	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	1.5	-	68	15	13	3.50	37	<1.0	<1.0	<1.0
EA-5	11/30/1995	107.93	12.90	95.03	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	1.2	-	52	11	9.4	3.00	29	<0.5	<0.5	<0.5
EA-5	02/19/1996	107.93	10.11	97.82	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	1.0	-	54	12	7.5	<1.0	34	<0.5	<0.5	<0.5
EA-5	05/16/1996	107.93	10.82	97.11	<50	0.76	1.2	1.8	9.8	-	-	-	-	-	-	<10	-	61	12	<10	<20	55	<10	<10	<10
EA-5	08/27/1996	107.93	12.36	95.57	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	1.0	-	79	17	16	<5.0	26	<0.5	<0.5	1.0
EA-5	11/13/1996	107.93	12.78	95.15	<50	<0.5	<0.5	<0.5	<0.5	[3]	-	-	-	-	-	1.1	-	43	<1.0	9.7	<2.0	29	<1.0	<4.0	<1.0

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA
CHEVRON SERVICE STATION 96817
1705 CONTRA COSTA BOULEVARD
PLEASANT HILL, CALIFORNIA

					HYDROCARBONS	*PRIMARY VOCS*					*OXYGENATE COMPOUNDS*							*ADDITIONAL VOCS*							
Location	Date	*TOC*	*DTW*	*GWE*	*TPH-GRO*	*B*	*T*	*E*	*X*	*MTBE*	*Ethanol*	*TBA*	*DIPE*	*ETBE*	*TAME*	*1,2-DCA*	*EDB*	*TCE*	*PCE*	*T-1,2-DCE*	*VC*	*C-1,2-DCE*	*CHB*	*CF*	*1,1-DCE*
	Units	*ft*	*ft*	*ft-amsl*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*
EA-5	02/20/1997	107.93	10.39	97.54	<50	<0.5	<0.5	<0.5	<0.5	82.0	-	-	-	-	-	1.1	-	75	23	13	1.00	41	<0.5	1.4	<0.5
EA-5	05/16/1997	107.93	11.66	96.27	<50	<0.5	<0.5	<0.5	<0.5	78.0	-	-	-	-	-	<1.2	-	65	17	14	<2.5	35	<1.2	<2.5	<1.2
EA-5	12/02/1997	107.93	11.75	96.18	<50	<0.5	<0.5	<0.5	<0.5	39.0	-	-	-	-	-	<1.0	-	45	20	12	<2.0	27	<1.0	<1.0	<1.0
EA-5	05/07/1998	107.93	10.36	97.57	<50	<0.5	<0.5	<0.5	<0.5	54.0	-	-	-	-	-	<1.2	-	59	14	16	<2.5	38	<1.2	<1.2	<1.2
EA-5	06/17/1999	107.93	11.33	96.60	<50	<0.5	<0.5	<0.5	<0.5	230.0	-	-	-	-	-	<1.25	-	47.5	12.7	13.4	<2.5	34.1	<1.25	<1.25	<1.25
EA-5	05/22/2000	107.93	11.46	96.47	<50	<0.50	<0.50	<0.50	<0.50	570	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EA-5	05/04/2001	107.93	11.93	96.00	<100	<1.00	<1.00	<1.00	<1.00	552/540[6]	<500	68	<2.0	<2.0	20	<2.0	<2.0	-	-	-	-	-	-	-	-
EA-5	05/03/2002	107.93	11.91	96.02	90	<1.0	<0.50	<0.50	<1.5	300/260[6]	-	<5	<0.5	<0.5	11	0.9	<0.5	84	52	12	<1	34	<0.8	<0.8	<0.8
EA-5	05/12/2003[10]	107.93	11.02	96.91	54	<0.5	<0.5	<0.5	<1	210	-	<5	<0.5	<0.5	9	1	<0.5	79	48	9	<1	32	<0.8	<0.8	<0.8
EA-5	05/14/2004[11]	107.93	11.67	96.26	83	<0.5	<0.5	<0.5	<1	160	-	<5	<0.5	<0.5	8	0.6	<0.5	67	42	8	<1	27	<0.8	<0.8	<0.8
EA-5	05/05/2005[11]	107.93	10.82	97.11	71	<0.5	<0.5	<0.5	<1.0	110	-	170	<0.5	<0.5	5	0.7	<0.5	71	44	9	<1	35	<0.8	<0.8	<0.8
EA-5	05/31/2006[11]	107.93	10.29	97.64	<50	<0.5	<0.5	<0.5	<1.0	63	-	<5	<0.5	<0.5	2	0.5	<0.5	31	13	3	<1	13	<0.5	<0.8	<0.8
EA-5	05/11/2007[11]	107.93	11.48	96.45	<50	<0.5	<0.5	<0.5	<1.0	34	-	<5	<0.5	<0.5	1	0.6	<0.5	48	20	6	<1	28	<0.8	<0.8	<0.8
EA-5	05/23/2008[11]	107.93	11.55	96.38	<50	<0.5	<0.5	<0.5	<1.0	22	-	<5	<0.5	<0.5	1	<0.5	<0.5	33	11	4	<1	20	<0.8	<0.8	<1
EA-5	05/21/2009[11]	107.93	11.28	96.65	<50	<0.5	<0.5	<0.5	<1.0	2	-	<5	<0.5	<0.5	<0.5	0.6	<0.5	34	11	4	<1	19	<0.8	<0.8	<0.8
EA-5	05/25/2010[11]	107.93	10.78	97.15	<50	<0.5	<0.5	<0.5	<1.0	1	-	<5	<0.5	<0.5	<0.5	<0.5	<0.5	12	3	1	<1	5	<0.8	<0.8	<0.8
EA-5	05/18/2011[17]	107.93	10.08	97.85	<50	<0.5	<0.5	<0.5	<1.0	3	-	<5	<0.5	<0.5	<0.5	<0.5	<0.5	24	7	3	<1	14	<0.8	<0.8	<0.8
EA-5	12/02/2011	107.93	11.81	96.12	<50	<0.5	1	<0.5	<1.0	2	-	<5	<0.5	<0.5	<0.5	<0.5	<0.5	12	3	1	<1	7	<0.8	<0.8	<0.8
EA-5	05/24/2012	107.96	10.80	97.16	<50	<0.5	<0.5	<0.5	<0.5	1	-	<5	<0.5	<0.5	<0.5	0.6	<0.5	25	7	3	<1	17	<0.8	<0.8	<0.8
EA-5	05/08/2013	107.96	11.52	96.44	<50	<0.5	<0.5	<0.5	<0.5	0.6	-	<5	<0.5	<0.5	<0.5	0.6	<0.5	26	5	3	<1	18	<0.8	<0.8	<0.8
EA-5	**05/13/2014**	**107.96**	**10.85**	**97.11**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**-**	**<5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**37**	**6**	**3**	**<0.5**	**22**	**<0.5**	**24**	**<0.5**
MW-2	12/02/2011[19]	47.99	10.92	37.07	<50	<0.5	<0.5	<0.5	<1.0	<0.5	-	<5	<0.5	<0.5	<0.5	<0.5	<0.5	7	16	<0.8	<1	2	<0.8	<0.8	<0.8
MW-3	12/02/2011[19]	47.28	10.34	36.94	210	<0.5	<0.5	<0.5	<1.0	32	-	<5	<0.5	<0.5	2	<0.5	<0.5	92	69	9	<1	190	<0.8	<0.8	<0.8
MW-4	12/02/2011[19]	47.34	10.60	36.74	<50	<0.5	<0.5	<0.5	<1.0	14	-	<5	<0.5	<0.5	<0.5	<0.5	<0.5	25	34	1	<1	5	<0.8	<0.8	<0.8
MW-5	12/02/2011[19]	47.13	10.29	36.84	<50	<0.5	<0.5	<0.5	<1.0	<0.5	-	<5	<0.5	<0.5	<0.5	<0.5	<0.5	4	34	<0.8	<1	0.9	<0.8	<0.8	<0.8
MW-C	12/01/1987	106.48	-	-	620	13	3.0	2.0	3.0	-	-	-	-	-	-	-	-	570	1,800	63	30.00	-	-	-	-

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA
CHEVRON SERVICE STATION 96817
1705 CONTRA COSTA BOULEVARD
PLEASANT HILL, CALIFORNIA

					HYDROCARBONS	*PRIMARY VOCS*				*OXYGENATE COMPOUNDS*								*ADDITIONAL VOCS*							
Location	Date	*TOC*	*DTW*	*GWE*	*TPH-GRO*	*B*	*T*	*E*	*X*	*MTBE*	*Ethanol*	*TBA*	*DIPE*	*ETBE*	*TAME*	*1,2-DCA*	*EDB*	*TCE*	*PCE*	*T-1,2-DCE*	*VC*	*C-1,2-DCE*	*CHB*	*CF*	*1,1-DCE*
	Units	*ft*	*ft*	*ft-amsl*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*
MW-C	09/07/1988	106.48	10.25	96.23	510	6.4	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	211	353	51.2	<20	-	-	-	-
MW-C	01/03/1989	106.48	9.30	97.18	-	37	19	<1.0	<0.5	-	-	-	-	-	-	-	-	300	1,600	<0.5	<1,000	-	-	-	-
MW-C	04/06/1989	106.48	8.48	98.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-C	05/05/1989	106.48	8.53	97.95	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-C	06/12/1989	106.48	9.24	97.24	480	5.9	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-C	06/20/1989	106.48	9.32	97.16	-	-	-	-	-	-	-	-	-	-	-	-	-	296	950	38	<10	150	-	-	-
MW-C	09/19/1989	106.48	9.43	97.05	490	0.9	<0.5	1.4	<0.5	-	-	-	-	-	-	-	-	340	1,000	56	<2.0	-	-	-	-
MW-C	12/28/1989	106.48	10.32	96.16	420	0.7	0.8	<0.5	<0.5	-	-	-	-	-	-	-	-	<0.5	<0.5	<0.5	<2.0	-	-	-	-
MW-C	06/06/1990	106.48	9.65	96.83	430	<0.5	<0.5	1.2	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-C	09/11/1990	106.48	11.52	94.96	300	<0.5	<0.5	1.2	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-C	12/19/1990	106.48	10.90	95.58	360	<0.5	<0.5	<0.5	0.7	-	-	-	-	-	-	<0.5	-	99	380	11	-	36	-	-	-
MW-C	03/31/1991	106.48	8.67	97.81	390	2.1	<0.5	12	2.9	-	-	-	-	-	-	<0.5	-	38	180	10	34.00	37	-	-	-
MW-C	06/18/1991	106.48	10.49	95.99	290	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	<0.5	-	17	47	0.9	<1.0	10	<0.5	<0.5	-
MW-C	08/29/1991	106.48	11.62	94.86	310	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	<0.5	-	83	320	7.1	<1.0	40	<0.5	<0.5	<0.5
MW-C	11/04/1991	106.48	11.44	95.04	190	1.2	<0.5	<0.5	<0.5	-	-	-	-	-	-	<0.5	-	80	290	4.5	<1.0	30	<0.5	<0.5	<0.5
MW-C	01/29/1992	106.48	11.37	95.11	160	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	<1.2	-	62	93	2.0	<2.5	65	<1.2	<1.2	<1.2
MW-C	05/12/1992	106.48	10.40	96.08	310	0.5	<0.5	0.5	<0.5	-	-	-	-	-	-	<25	-	120	460	<25	<25	120	<25	<25	<25
MW-C	08/18/1992	106.48	11.52	94.96	220	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	<2.5	-	120	400	<2.5	<2.5	69	<2.5	<2.5	6.2
MW-C	12/31/1992	106.48	10.59	95.89	280	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	<10	-	100	500	<10	<10	100	<10	<10	<10
MW-C	03/25/1993	106.48	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-C	06/16/1993	106.48	9.82	96.66	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	<0.5	-	<0.5	<0.5	7.0	10.00	140	<0.5	<0.5	1.0
MW-C	10/06/1993	106.48	11.20	95.28	<50	0.5	0.6	<0.5	<0.5	-	-	-	-	-	-	<0.5	-	480	1,100	9.0	3.00	250	<0.5	<0.5	<0.5
MW-C	02/08/1994	106.48	9.82	96.66	64	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	<0.5	-	340	930	7.0	5.00	73	<0.5	<0.5	0.9
MW-C	06/15/1994	106.48	10.51	95.97	<50	0.5	<0.5	<0.5	1.5	-	-	-	-	-	-	<5.0	-	160	760	<5.0	<10	89	<5.0	<5.0	<5.0
MW-C	08/24/1994	106.48	11.00	95.48	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	<0.5	-	160	570	5.8	1.00	96	<0.5	<0.5	0.5
MW-C	12/15/1994	106.48	9.81	96.67	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	<0.5	-	190	1,000	7.1	1.40	76	<0.5	<0.5	0.8
MW-C	02/27/1995[1,13]	106.48	9.15	97.33	500	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	<25	-	180	1,200	<25	<25	100	<25	<25	<25
MW-C	05/18/1995	106.48	8.78	97.70	350	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	<25	-	230	950	<25	<25	210	<25	<25	<25
MW-C	08/24/1995	106.48	10.53	95.95	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	<25	-	170	990	<25	<25	110	<25	<25	<25
MW-C	11/30/1995	106.48	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA
CHEVRON SERVICE STATION 96817
1705 CONTRA COSTA BOULEVARD
PLEASANT HILL, CALIFORNIA

					HYDROCARBONS	*PRIMARY VOCS*				*OXYGENATE COMPOUNDS*								*ADDITIONAL VOCS*							
Location	Date	*TOC*	*DTW*	*GWE*	*TPH-GRO*	*B*	*T*	*E*	*X*	*MTBE*	*Ethanol*	*TBA*	*DIPE*	*ETBE*	*TAME*	*1,2-DCA*	*EDB*	*TCE*	*PCE*	*T-1,2-DCE*	*VC*	*C-1,2-DCE*	*CHB*	*CF*	*1,1-DCE*
	Units	*ft*	*ft*	*ft-amsl*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*
MW-C	02/19/1996	106.48	7.90	98.58	200	0.9	<0.5	<0.5	<0.5	-	-	-	-	-	-	<0.5	-	140	1,100	4.9	1.70	63	<0.5	<0.5	<0.5
MW-C	05/16/1996	106.48	9.05	97.43	170	1.5	1.1	2.2	7.3	-	-	-	-	-	-	<10	-	120	320	<10	<20	94	<10	<10	<10
MW-C	08/27/1996	106.48	10.14	96.34	210	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-C	11/13/1996	106.48	10.55	95.93	320[2]	<0.5	<0.5	<0.5	<0.5	[3]	-	-	-	-	-	<25	-	130	990	<25	<50	68	<25	<25	<25
MW-C	02/20/1997[14]	106.48	8.24	98.24	330	<0.5	<0.5	<0.5	<0.5	15.0	-	-	-	-	-	<1.0	-	110	800	<1.0	<1.6	<1.0	<1.0	1.1	1.7
MW-C	05/16/1997	106.48	9.45	97.03	190	<0.5	<0.5	<0.5	<0.5	17.0	-	-	-	-	-	<12	-	140	940	<12	<25	88	<12	<12	<12
MW-C	12/02/1997	106.48	9.32	97.16	170[2]	<0.5	<0.5	<0.5	<0.5	<2.5	-	-	-	-	-	<25	-	100	500	<25	<50	110	<25	<25	<25
MW-C	05/07/1998	106.48	8.19	98.29	210[2]	<0.5	<0.5	<0.5	<0.5	10.0	-	-	-	-	-	<12	-	190	730	<12	<25	140	<12	<12	<12
MW-C	06/17/1999	106.48	9.15	97.33	160	<0.5	<0.5	<0.5	<0.5	31.0	-	-	-	-	-	<25	-	212	972	<25	<50	145	<25	<25	<25
MW-C	05/22/2000	106.48	8.95	97.53	150[5]	0.57	<0.50	<0.50	<0.50	<2.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-C	05/04/2001	106.48	9.47	97.01	293[7]	<0.500	<0.500	<0.500	<0.500	6.42/5.6[6]	<500	<20	<2.0	<2.0	<2.0	<2.0	<2.0	-	-	-	-	-	-	-	-
MW-C	05/03/2002	106.48	9.45	97.03	410	<0.50	<0.50	<0.50	<1.5	<10/6[6]	-	<5	<0.5	<0.5	0.6	<0.5	<0.5	140	670	3	<1	96	<0.8	<0.8	<0.8
MW-C	05/12/2003[10]	106.48	8.56	97.92	320	<0.5	<0.5	<0.5	<1	7	-	<5	<0.5	<0.5	0.7	<0.5	<0.5	180	390	4	1	200	<0.8	<0.8	<0.8
MW-C	05/14/2004[11]	106.48	9.26	97.22	340	<0.5	<0.5	0.6	1	7	-	<5	<0.5	<0.5	0.7	<0.5	<0.5	160	510	3	1	110	<0.8	<0.8	<0.8
MW-C	03/21/2005[18]							DESTROYED													DESTROYED				
MW-D	12/01/1987	105.65	-	-	48,000	6,600	5,200	73	2,900	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-D	09/07/1988	105.65	9.75	95.90	24,000	12,000	2,700	600	2,000	-	-	-	-	-	-	-	-	17.1	<2.5	82.5	169.00	-	-	-	-
MW-D	01/03/1989	105.65	8.76	96.89	60,000	8,000	9,100	2,500	12,000	-	-	-	-	-	-	-	-	<0.5	<0.5	<0.5	<1,000	-	-	-	-
MW-D	04/06/1989	105.65	8.00	97.65	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-D	05/05/1989	105.65	8.28	97.37	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-D	06/12/1989	105.65	8.67	96.98	44,000	12,000	1,800	920	5,500	-	-	-	-	-	-	-	-	337	<5.0	<5.0	<10	-	-	-	-
MW-D	06/20/1989	105.65	8.73	96.92	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-D	09/19/1989	105.65	9.88	95.77	51,000	6,200	3,000	850	3,400	-	-	-	-	-	-	-	-	300	<10	250	<40	-	-	-	-
MW-D	12/28/1989	105.65	9.75	95.90	33,000	9,300	1,800	960	2,700	-	-	-	-	-	-	-	-	570	<0.5	440	62.00	-	-	-	-
MW-D	06/06/1990	105.65	9.06	96.59	60,000	7,100	2,700	1,400	5,800	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-D	09/11/1990	105.65	9.90	95.75	68,000	7,600	3,700	1,600	6,700	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-D	12/19/1990	105.65	10.70	94.95	110,000	6,300	7,100	2,200	9,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-D	03/31/1991	105.65	8.00	97.65	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-D	06/18/1991	105.65	9.80	95.85	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA
CHEVRON SERVICE STATION 96817
1705 CONTRA COSTA BOULEVARD
PLEASANT HILL, CALIFORNIA

					HYDROCARBONS	*PRIMARY VOCS*				*OXYGENATE COMPOUNDS*								*ADDITIONAL VOCS*							
Location	Date	*TOC*	*DTW*	*GWE*	*TPH-GRO*	*B*	*T*	*E*	*X*	*MTBE*	*Ethanol*	*TBA*	*DIPE*	*ETBE*	*TAME*	*1,2-DCA*	*EDB*	*TCE*	*PCE*	*T-1,2-DCE*	*VC*	*C-1,2-DCE*	*CHB*	*CF*	*1,1-DCE*
	Units	*ft*	*ft*	*ft-amsl*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*
MW-D	08/29/1991	105.65	10.93	94.72	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-D	11/04/1991	105.65	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-D	01/29/1992	105.65	10.63	95.02	41,000	3,100	1,700	2,200	6,500	-	-	-	-	-	-	<25	-	1,100	<25	820	910.00	1,500	<25	<25	<25
MW-D	05/12/1992	105.65	10.73	94.92	7,800	2,200	98	170	170	-	-	-	-	-	-	<25	-	890	<25	870	360.00	1,600	<25	<25	<25
MW-D	08/18/1992	105.65	-	-	-	-	-	-	-	-	-	-	-	-	-	<50	-	1,200	59	<50	250.00	1,900	<50	<50	930
MW-D	12/31/1992	105.65	7.83	97.82	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-D	03/25/1993	105.65	8.86	96.79	13,000	3,000	670	800	2,500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-D	06/16/1993	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	-	<0.5	8	140	110.00	330	<0.5	<0.5	<0.5
MW-D	10/06/1993	105.65	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-D	02/08/1994	105.65	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-D	06/15/1994	105.65	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-D	08/24/1994	105.65	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-D	12/15/1994	105.65	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-D	02/27/1995	105.65	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-D	05/18/1995	105.65	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-D	08/24/1995	105.65	10.16	95.49	10,000	930	31	420	220	-	-	-	-	-	-	<10	-	<10	<10	37	22.00	35	<10	<10	<10
MW-D	11/30/1995	105.65	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-D	02/19/1996	105.65	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-D	05/16/1996	105.65	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-D	08/27/1996	105.65	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-D	11/13/1996	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-D	06/17/1999	105.65	8.20	97.45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-D	05/22/2000	105.65	7.85	97.80	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-D	05/04/2001	105.65	8.54	97.11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-D	05/03/2002[8]	105.65	9.05	96.60	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-D	05/12/2003[9,10]	105.65	7.87	97.78	180	3	<0.5	1	<1	<0.5	-	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.8	<0.8	<1	<0.8	<0.8	<0.8	<0.8
MW-D	05/14/2004[11]	105.65	7.98	97.67	2,200	12	1	4	2	<0.5	-	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	1	<0.8	<1	<0.8	<0.8	<0.8	<0.8
MW-D	03/21/2005[18]							DESTROYED													DESTROYED				
EA-1	09/07/1988	105.61	9.89	95.72	230	7.7	7.6	6.4	23	-	-	-	-	-	-	-	-	6.2	2.7	2.6	3.60	-	-	-	-

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA
CHEVRON SERVICE STATION 96817
1705 CONTRA COSTA BOULEVARD
PLEASANT HILL, CALIFORNIA

					HYDROCARBONS	*PRIMARY VOCS*				*OXYGENATE COMPOUNDS*								*ADDITIONAL VOCS*							
Location	Date	*TOC*	*DTW*	*GWE*	*TPH-GRO*	*B*	*T*	*E*	*X*	*MTBE*	*Ethanol*	*TBA*	*DIPE*	*ETBE*	*TAME*	*1,2-DCA*	*EDB*	*TCE*	*PCE*	*T-1,2-DCE*	*VC*	*C-1,2-DCE*	*CHB*	*CF*	*1,1-DCE*
	Units	*ft*	*ft*	*ft-amsl*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*
EA-1	01/03/1989	105.61	9.80	95.81	<50	2.6	<0.5	1.0	<0.5	-	-	-	-	-	-	-	-	6.5	4.4	1.7	<0.5	-	-	-	-
EA-1	04/06/1989	105.61	8.24	97.37	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EA-1	05/05/1989	105.61	8.53	97.08	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EA-1	06/12/1989	105.61	8.95	96.66	<250	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	17	<5.0	<5.0	<10	22	-	-	-
EA-1	09/19/1989	105.61	9.19	96.42	<250	5.5	<0.5	4.1	<0.5	-	-	-	-	-	-	-	-	26	3.9	5.4	<2.0	-	-	-	-
EA-1	12/28/1989	105.61	9.50	96.11	<250	2.5	<0.5	2.0	<0.5	-	-	-	-	-	-	-	-	47	5.1	9.6	5.70	-	-	-	-
EA-1	06/06/1990	105.61	9.28	96.33	70	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EA-1	09/11/1990	105.61	10.15	95.46	80	0.9	<0.5	<0.5	0.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EA-1	12/19/1990	105.61	10.46	95.15	50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	<0.5	-	46	20	19	-	37	-	-	-
EA-1	03/31/1991	105.61	8.30	97.31	100	0.6	<0.5	<0.5	0.5	-	-	-	-	-	-	<0.5	-	87	26	30	<1.0	50	-	-	-
EA-1	06/18/1991	105.61	9.94	95.67	150	1.1	<0.5	<0.5	<0.5	-	-	-	-	-	-	<0.5	-	160	40	22	19.00	67	<0.5	-	-
EA-1	08/29/1991	105.61	10.95	94.66	69	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	<0.5	-	180	34	24	6.30	60	<0.5	<0.5	<0.5
EA-1	11/04/1991	105.61	10.92	94.69	60	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	<0.5	-	230	58	25	<1.0	76	<0.5	<0.5	0.6
EA-1	01/29/1992	105.61	10.73	94.88	590	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	<2.5	-	160	54	9.3	<5.0	44	<2.5	<2.5	<2.5
EA-1	05/12/1992	105.61	9.82	95.79	180	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	<2.5	-	300	73	30	6.20	76	<2.5	<2.5	<2.5
EA-1	08/18/1992	105.61	11.03	94.58	200	0.5	<0.5	<0.5	1.1	-	-	-	-	-	-	<1.7	-	210	60	32	6.00	83	<1.7	<1.7	<1.7
EA-1	12/31/1992	105.61	10.20	95.41	110	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	<5.0	-	200	40	20	<5.0	70	<5.0	<5.0	<5.0
EA-1	03/25/1993	105.61	8.36	97.25	140	0.8	<0.5	<0.5	<1.5	-	-	-	-	-	-	<5.0	-	230	54	28	<10	74	<5.0	<5.0	9.2
EA-1	06/16/1993	105.61	9.31	96.30	<50	2.0	<0.5	<0.5	<0.5	-	-	-	-	-	-	<5.0	-	<5.0	48	23	<10	79	<5.0	<5.0	<5.0
EA-1	10/06/1993	105.61	10.57	95.04	<50	<0.5	<0.5	<0.5	0.8	-	-	-	-	-	-	<5.0	-	130	40	29	4.00	66	<5.0	<5.0	<5.0
EA-1	02/08/1994	105.61	9.48	96.13	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	4.0	-	91	34	22	7.00	47	<0.5	<0.5	1.0
EA-1	06/15/1994	105.61	6.96	98.65	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	3.0	-	100	33	22	10.00	53	<0.5	<0.5	0.8
EA-1	08/24/1994	105.61	10.45	95.16	<50	0.6	<0.5	<0.5	<0.5	-	-	-	-	-	-	1.9	-	84	42	26	4.30	61	<0.5	<0.5	<0.5
EA-1	12/15/1994[15]	105.61	9.40	96.21	<50	0.6	<0.5	<0.5	<0.5	-	-	-	-	-	-	3.2	-	130	55	36	7.00	75	<0.5	<0.5	0.7
EA-1	02/27/1995	105.61	7.63	97.98	150	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	<5.0	-	210	73	50	<5.0	83	<5.0	<5.0	<5.0
EA-1	05/18/1995	105.61	7.88	97.73	90	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	<2.5	-	180	66	45	<2.5	95	<2.5	<2.5	<2.5
EA-1	08/24/1995	105.61	9.84	95.77	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	<10	-	180	49	30	<10	90	<10	<10	<10
EA-1	11/30/1995	105.61	10.32	95.29	<0.5	0.55	<0.5	<0.5	<0.5	-	-	-	-	-	-	<5.0	-	120	41	25	<8.0	65	<5.0	<5.0	<5.0
EA-1	02/19/1996	105.61	7.58	98.03	110	0.93	<0.5	<0.5	<0.5	-	-	-	-	-	-	1.2	-	120	38	<0.5	5.70	72	<0.5	<0.5	<0.5
EA-1	05/16/1996	105.61	8.42	97.19	<50	2.4	1.0	1.1	5.7	-	-	-	-	-	-	<10	-	78	21	<10	<20	65	<10	<10	<10

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GROUNDWATER MONITORING AND SAMPLING DATA
CHEVRON SERVICE STATION 96817
1705 CONTRA COSTA BOULEVARD
PLEASANT HILL, CALIFORNIA

					HYDROCARBONS	*PRIMARY VOCS*				*OXYGENATE COMPOUNDS*								*ADDITIONAL VOCS*							
Location	Date	*TOC*	*DTW*	*GWE*	*TPH-GRO*	*B*	*T*	*E*	*X*	*MTBE*	*Ethanol*	*TBA*	*DIPE*	*ETBE*	*TAME*	*1,2-DCA*	*EDB*	*TCE*	*PCE*	*T-1,2-DCE*	*VC*	*C-1,2-DCE*	*CHB*	*CF*	*1,1-DCE*
	Units	*ft*	*ft*	*ft-amsl*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*
EA-1	08/27/1996	105.61	9.64	95.97	<50	1.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	<0.5	-	150	38	22	4.60	30	<0.5	<0.5	1.2
EA-1	11/13/1996	105.61	10.05	95.56	<50	<0.5	<0.5	<0.5	<0.5	[3]	-	-	-	-	-	<1.0	-	62	19	12	<2.0	28	<1.0	<1.0	<1.0
EA-1	02/20/1997	105.61	7.10	98.51	<50	<0.5	<0.5	<0.5	<0.5	39.0	-	-	-	-	-	0.5	-	34	13	5.2	<0.8	16	<0.5	<0.5	<0.5
EA-1	05/16/1997	105.61	8.90	96.71	<50	<0.5	<0.5	<0.5	<0.5	19.0	-	-	-	-	-	1.1	-	13	5.1	3.5	<1.0	8.4	<0.5	<0.5	<0.5
EA-1	12/02/1997	105.61	8.88	96.73	<50	<0.5	<0.5	<0.5	<0.5	18.0	-	-	-	-	-	1.1	-	11	5.4	3.8	<1.0	6.8	<0.5	<0.5	<0.5
EA-1	06/17/1999	105.61	8.60	97.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EA-1	05/22/2000	105.61	8.61	97.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EA-1	05/04/2001	105.61	9.10	96.51	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EA-1	05/03/2002	105.61	9.09	96.52	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EA-1	05/12/2003[10]	105.61	8.22	97.39	77	<0.5	<0.5	<0.5	<1	250	-	82	<0.5	<0.5	11	0.6	<0.5	90	56	14	<1	55	<0.8	<0.8	<0.8
EA-1	05/14/2004	105.61	8.94	96.67	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EA-1	03/21/2005[18]							DESTROYED													DESTROYED				
EA-2	09/07/1988	107.33	10.65	96.68	<0.5	5.3	<0.5	<0.5	58	-	-	-	-	-	-	-	-	241	<2.5	<5.0	-	-	-	-	-
EA-2	01/03/1989	107.33	9.46	97.87	<0.5	<0.5	<0.5	<0.5	2,900	-	-	-	-	-	-	-	-	1,700	<0.5	<200	-	-	-	-	-
EA-2	04/06/1989	107.33	8.82	98.51	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EA-2	05/05/1989	107.33	8.96	98.37	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EA-2	06/12/1989	107.33	9.33	98.00	<0.5	<0.5	<0.5	<0.5	848	-	-	-	-	-	-	-	-	1,640	14	<10	720.00	22	-	-	-
EA-2	06/20/1989	107.33	9.44	97.89	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EA-2	09/19/1989	107.33	9.48	97.85	<0.5	<0.5	<0.5	<0.5	1,600	-	-	-	-	-	-	-	-	2,700	<25	<100	-	-	-	-	-
EA-2	12/28/1989	107.33	10.74	96.59	<250	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	52	120	1.1	<2.0	-	-	-	-
EA-2	06/06/1990	107.33	9.95	97.38	130	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EA-2	09/11/1990	107.33	10.77	96.56	780	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EA-2	12/19/1990	107.33	11.29	96.04	370	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	0.7	-	142	389	0.7	-	21	<0.5	<0.5	<0.8
EA-2	03/31/1991	107.33	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EA-2	06/18/1991	107.33	11.02	96.31	2,000	0.7	1.1	<0.5	0.9	-	-	-	-	-	-	-	-	1,100	2,000	21	34.00	1,200	-	-	-
EA-2	08/29/1991	107.33	19.94	87.39	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EA-2	11/04/1991	107.33	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EA-2	01/29/1992	107.33	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EA-2	05/12/1992	107.33	-	-	1,300	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	<25	-	380	3,500	<25	<25	740	<25	<25	<25

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA
CHEVRON SERVICE STATION 96817
1705 CONTRA COSTA BOULEVARD
PLEASANT HILL, CALIFORNIA

					HYDROCARBONS	*PRIMARY VOCS*				*OXYGENATE COMPOUNDS*								*ADDITIONAL VOCS*							
Location	Date	*TOC*	*DTW*	*GWE*	*TPH-GRO*	*B*	*T*	*E*	*X*	*MTBE*	*Ethanol*	*TBA*	*DIPE*	*ETBE*	*TAME*	*1,2-DCA*	*EDB*	*TCE*	*PCE*	*T-1,2-DCE*	*VC*	*C-1,2-DCE*	*CHB*	*CF*	*1,1-DCE*
	Units	*ft*	*ft*	*ft-amsl*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*
EA-2	08/18/1992	107.33	11.94	95.39	780	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	<2.5	-	79	2,500	<2.5	<2.5	120	<2.5	<2.5	<2.5
EA-2	12/31/1992	107.33	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EA-2	03/25/1993	107.33	9.90	97.43	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EA-2	06/16/1993	107.33	9.98	97.35	<50	0.6	<0.5	<0.5	<0.5	-	-	-	-	-	-	1.0	-	<0.5	2,100	10	2.00	73	<0.5	<0.5	<0.5
EA-2	10/06/1993	107.33	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EA-2	02/08/1994	107.33	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EA-2	06/15/1994	107.33	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EA-2	08/24/1994	107.33	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EA-2	12/15/1994	107.33	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EA-2	02/27/1995	107.33	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EA-2	05/18/1995	107.33	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EA-2	08/24/1995	107.33	14.06	93.27	<50	2.1	<0.5	<0.5	<0.5	-	-	-	-	-	-	<50	-	760	4,000	<50	<50	250	<50	<50	<50
EA-2	11/30/1995	107.33	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EA-2	02/19/1996	107.33	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EA-2	05/16/1996	107.33	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EA-2	08/27/1996	107.33	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EA-2	06/17/1999	107.33	9.65	97.68	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EA-2	05/22/2000	107.33	9.62	97.71	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EA-2	05/04/2001[16]	107.33	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EA-2	05/03/2002[16]	107.33	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EA-2	05/12/2003[10]	107.33	8.94	98.39	3,300	<2	<2	<2	<4	3	-	<20	<2	<2	<2	<2	<2	3,600	3,100	28	81	2,900	<3	<3	<3
EA-2	05/14/2004[12]	107.33	9.69	97.64	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EA-2	03/21/2005[18]							DESTROYED													DESTROYED				
EA-3	09/07/1988	104.88	7.99	96.89	340	<0.5	15	<0.5	<0.5	-	-	-	-	-	-	-	-	134	1,570	<2.5	<5.0	-	-	-	-
EA-3	01/03/1989	104.88	6.76	98.12	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	750	5,000	6.5	<250	-	-	-	-
EA-3	04/06/1989	104.88	6.12	98.76	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EA-3	05/05/1989	104.88	6.27	98.61	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EA-3	06/12/1989	104.88	6.64	98.24	480	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	64	2,190	<5.0	<10	35	-	-	-
EA-3	06/20/1989	104.88	6.75	98.13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EA-3	09/19/1989	104.88	6.87	98.01	700	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	100	64	5.4	8.90	-	-	-	-

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA
CHEVRON SERVICE STATION 96817
1705 CONTRA COSTA BOULEVARD
PLEASANT HILL, CALIFORNIA

					HYDROCARBONS	*PRIMARY VOCS*				*OXYGENATE COMPOUNDS*								*ADDITIONAL VOCS*							
Location	Date	*TOC*	*DTW*	*GWE*	*TPH-GRO*	*B*	*T*	*E*	*X*	*MTBE*	*Ethanol*	*TBA*	*DIPE*	*ETBE*	*TAME*	*1,2-DCA*	*EDB*	*TCE*	*PCE*	*T-1,2-DCE*	*VC*	*C-1,2-DCE*	*CHB*	*CF*	*1,1-DCE*
	Units	*ft*	*ft*	*ft-amsl*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*
EA-3	12/28/1989	104.88	8.06	96.82	840	0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	162	3,060	2.9	<2.0	-	-	-	-
EA-3	06/06/1990	104.88	7.21	97.67	1,000	<0.5	<0.5	1.3	7.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EA-3	09/11/1990	104.88	8.09	96.79	1,300	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EA-3	12/19/1990	104.88	8.55	96.33	1,200	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EA-3	03/31/1991	104.88	6.26	98.62	1,200	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	<0.5	-	40	3,800	2.0	<1.0	26	2.0	-	-
EA-3	06/18/1991	104.88	8.35	96.53	1,400	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EA-3	08/29/1991	104.88	9.46	95.42	2,100	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	<0.5	-	340	2,700	12	<1.0	130	<0.5	<0.5	<0.5
EA-3	11/04/1991	104.88	9.08	95.80	600	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	<0.5	-	99	490	2.3	<1.0	38	<0.5	<0.5	<0.5
EA-3	01/29/1992	104.88	9.17	95.71	530	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	<0.5	-	67	970	<0.5	<1.0	38	<0.5	<0.5	<0.5
EA-3	05/12/1992	104.88	8.12	96.76	760	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	<25	-	180	1,700	<25	<25	62	<25	<25	<25
EA-3	08/18/1992	104.88	9.23	95.65	310	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	<1.25	-	97	730	<1.25	<1.25	46	<1.25	<1.25	3.0
EA-3	12/31/1992	104.88	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EA-3	03/25/1993	104.88	6.36	98.52	360	1.1	<0.5	<0.5	<1.5	-	-	-	-	-	-	<25	-	150	1,000	<25	<50	40	<25	<25	<25
EA-3	06/16/1993	104.88	7.58	97.30	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	<0.5	-	<0.5	600	2.0	<1.0	77	<0.5	<0.5	<0.5
EA-3	10/06/1993	104.88	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EA-3	02/08/1994	104.88	7.38	97.50	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	<0.5	-	130	410	4.0	<1.0	76	<0.5	<0.5	<0.5
EA-3	06/15/1994	104.88	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EA-3	08/24/1994	104.88	8.83	96.05	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	<0.5	-	87	350	3.1	<1.0	88	<0.5	<0.5	<0.5
EA-3	12/15/1994	104.88	7.38	97.50	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	<0.5	-	59	210	2.3	2.30	44	<0.5	<0.5	<0.5
EA-3	02/27/1995	104.88	6.94	97.94	200	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	<5.0	-	100	310	<5.0	<5.0	71	<5.0	<5.0	<5.0
EA-3	05/18/1995	104.88	6.53	98.35	170	0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	<5.0	-	130	370	<5.0	<5.0	80	<5.0	<5.0	<5.0
EA-3	08/24/1995	104.88	8.43	96.45	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	<10	-	95	300	<10	<10	51	<10	<10	<10
EA-3	11/30/1995	104.88	8.79	96.09	100	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	<50	-	110	380	25	<8.0	65	<50	<50	<50
EA-3	02/19/1996	104.88	5.58	99.30	130	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	<0.5	-	84	340	2.0	2.20	60	<0.5	<0.5	<0.5
EA-3	05/16/1996	104.88	6.80	98.08	130	0.94	0.95	0.73	2.6	-	-	-	-	-	-	<10	-	83	220	<10	<20	83	<10	<10	<10
EA-3	08/27/1996	104.88	7.92	96.96	140	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	<0.5	-	120	600	<0.5	2.50	26	<0.5	<0.5	<0.5
EA-3	11/13/1996	104.88	8.22	96.66	240[2]	<0.5	<0.5	<0.5	<0.5	[3]	-	-	-	-	-	<10	-	94	670	<10	<20	73	<10	<10	<10
EA-3	02/20/1997	104.88	6.02	98.86	690	<0.5	<0.5	<0.5	<0.5	18.0	-	-	-	-	-	<12	-	340	1,800	<12	<20	250	<12	<12	<12
EA-3	05/16/1997	104.88	7.11	97.77	140	<0.5	<0.5	<0.5	<0.5	3.8	-	-	-	-	-	<10	-	72	390	<10	<20	46	<10	<10	<10
EA-3	12/02/1997	104.88	6.84	98.04	<50	<0.5	<0.5	<0.5	<0.5	<2.5	-	-	-	-	-	<5.0	-	45	250	<5.0	<10	54	<5.0	<5.0	<5.0

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CHEVRON SERVICE STATION 96817
1705 CONTRA COSTA BOULEVARD
PLEASANT HILL, CALIFORNIA

					HYDROCARBONS	*PRIMARY VOCS*				*OXYGENATE COMPOUNDS*								*ADDITIONAL VOCS*							
Location	Date	*TOC*	*DTW*	*GWE*	*TPH-GRO*	*B*	*T*	*E*	*X*	*MTBE*	*Ethanol*	*TBA*	*DIPE*	*ETBE*	*TAME*	*1,2-DCA*	*EDB*	*TCE*	*PCE*	*T-1,2-DCE*	*VC*	*C-1,2-DCE*	*CHB*	*CF*	*1,1-DCE*
	Units	*ft*	*ft*	*ft-amsl*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*
EA-3	05/07/1998	104.88	5.87	99.01	140[2]	<0.5	<0.5	<0.5	<0.5	7.8	-	-	-	-	-	<12	-	120	540	<12	<25	85	<12	<12	<12
EA-3	06/17/1999	104.88	6.95	97.93	92	<0.5	<0.5	<0.5	<0.5	22.0	-	-	-	-	-	<10	-	155	564	<10	<20	134	<10	<10	<10
EA-3	05/22/2000	104.88	6.70	98.18	<50	<0.50	<0.50	<0.50	<0.50	9.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EA-3	05/04/2001	104.88	7.20	97.68	1,010[7]	1.64	0.835	<0.500	<0.500	29.7/30[6]	<500	<20	<2.0	<2.0	<2.0	<2.0	<2.0	-	-	-	-	-	-	-	-
EA-3	05/03/2002	104.88	7.19	97.69	1,600	<0.50	<0.50	<0.50	<1.5	<25/12[6]	-	<5	<0.5	<0.5	<0.5	<0.5	<0.5	470	1,800	20	<1	660	<0.8	<0.8	1
EA-3	05/12/2003[10]	104.88	6.25	98.63	640	<0.5	<0.5	<0.5	<1	5	-	<5	<0.5	<0.5	<0.5	<0.5	<0.5	250	800	13	<1	420	<0.8	<0.8	<0.8
EA-3	05/14/2004[11]	104.88	6.98	97.90	670	<0.5	<0.5	<0.5	<1	3	-	<5	<0.5	<0.5	<0.5	<0.5	<0.5	240	750	12	1	430	<0.8	<0.8	<0.8
EA-3	03/21/2005[18]							DESTROYED													DESTROYED				
EA-4	06/12/1989	106.34	9.96	96.38	1,100	<0.5	0.6	43	66	-	-	-	-	-	-	-	-	<5.0	<5.0	<5.0	<10	<5.0	-	-	-
EA-4	06/20/1989	106.34	10.05	96.29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EA-4	09/19/1989	106.34	10.33	96.01	750	<0.5	<0.5	12	5.2	-	-	-	-	-	-	-	-	<2.0	0.5	<0.5	<2.0	-	-	-	-
EA-4	12/28/1989	106.34	10.91	95.43	<250	<0.5	<0.5	2.5	0.8	-	-	-	-	-	-	-	-	<0.5	<0.5	<0.5	<2.0	-	-	-	-
EA-4	06/06/1990	106.34	10.32	96.02	160	<0.5	<0.5	5.5	3.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EA-4	09/11/1990	106.34	11.20	95.14	220	<0.5	<0.5	6.6	7.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EA-4	12/19/1990	106.34	11.49	94.85	82	<0.5	<0.5	0.5	1.0	-	-	-	-	-	-	<0.5	-	<0.5	<0.5	<0.5	-	<0.5	-	-	-
EA-4	03/31/1991	106.34	9.30	97.04	320	<0.5	<0.5	9.0	2.0	-	-	-	-	-	-	<0.5	-	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	-	-
EA-4	06/18/1991	106.34	10.92	95.42	70	-	<0.5	1.4	1.8	-	-	-	-	-	-	<0.5	-	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	-
EA-4	08/29/1991	106.34	11.90	94.44	61	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	<0.5	-	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5
EA-4	11/04/1991	106.34	11.93	94.41	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	<0.5	-	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5
EA-4	01/29/1992	106.34	11.58	94.76	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	<0.5	-	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5
EA-4	05/12/1992	106.34	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EA-4	08/18/1992	106.34	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EA-4	12/31/1992	106.34	10.88	95.46	160	<0.5	<0.5	7.5	1.2	-	-	-	-	-	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
EA-4	03/25/1993	106.34	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EA-4	06/16/1993	106.34	10.23	96.11	220	<0.5	<0.5	1.0	<0.5	-	-	-	-	-	-	<0.5	-	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5
EA-4	10/06/1993	106.34	10.42	95.92	1,000	<0.5	<0.5	11	2.0	-	-	-	-	-	-	<0.5	-	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5
EA-4	02/08/1994	106.34	10.38	95.96	650	<0.5	0.8	1.0	<0.5	-	-	-	-	-	-	<0.5	-	<0.5	0.6	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5
EA-4	06/15/1994	106.34	10.63	95.71	160	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	<0.5	-	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5
EA-4	08/24/1994	106.34	11.37	94.97	130	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	<0.5	-	0.9	7.1	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA
CHEVRON SERVICE STATION 96817
1705 CONTRA COSTA BOULEVARD
PLEASANT HILL, CALIFORNIA

					HYDROCARBONS	*PRIMARY VOCS*				*OXYGENATE COMPOUNDS*								*ADDITIONAL VOCS*							
Location	Date	*TOC*	*DTW*	*GWE*	*TPH-GRO*	*B*	*T*	*E*	*X*	*MTBE*	*Ethanol*	*TBA*	*DIPE*	*ETBE*	*TAME*	*1,2-DCA*	*EDB*	*TCE*	*PCE*	*T-1,2-DCE*	*VC*	*C-1,2-DCE*	*CHB*	*CF*	*1,1-DCE*
	Units	*ft*	*ft*	*ft-amsl*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*
EA-4	12/15/1994	106.34	10.42	95.92	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	<0.5	-	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5
EA-4	02/27/1995	106.34	9.36	96.98	130	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
EA-4	05/18/1995	106.34	9.09	97.25	240	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
EA-4	08/24/1995	106.34	10.74	95.60	170	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	<1.0	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
EA-4	11/30/1995	106.34	11.23	95.11	88	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	<0.5	-	<0.5	<0.5	<0.5	<0.8	<0.5	<0.5	<0.5	<0.5
EA-4	02/19/1996	106.34	8.22	98.12	110	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	<0.5	-	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5
EA-4	05/16/1996	106.34	9.05	97.29	100	0.6	0.98	1.2	6.2	-	-	-	-	-	-	<0.5	-	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5
EA-4	08/27/1996	106.34	10.61	95.73	220[2]	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	<0.5	-	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5
EA-4	11/13/1996	106.34	11.05	95.29	65[2]	<0.5	<0.5	<0.5	<0.5	<2.5	-	-	-	-	-	<0.5	-	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5
EA-4	02/20/1997	106.34	8.41	97.93	<50	<0.5	<0.5	<0.5	<0.5	<5.0	-	-	-	-	-	<0.5	-	<0.5	<0.5	<0.5	<0.8	<0.5	<0.5	<0.5	<0.5
EA-4	05/16/1997	106.34	9.60	96.74	180[4]	<0.5	<0.5	<0.5	<0.5	<2.5	-	-	-	-	-	<0.5	-	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5
EA-4	12/02/1997	106.34	10.03	96.31	120[2]	<0.5	<0.5	<0.5	<0.5	<2.5	-	-	-	-	-	<0.5	-	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5
EA-4	06/17/1999	106.34	9.60	96.74	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EA-4	05/22/2000	106.34	9.54	96.80	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EA-4	05/04/2001	106.34	10.07	96.27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EA-4	05/03/2002	106.34	10.01	96.33	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EA-4	05/12/2003[10]	106.34	9.14	97.20	<50	<0.5	<0.5	<0.5	<1	<0.5	-	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.8	<0.8	<1	<0.8	<0.8	<0.8	<0.8
EA-4	05/14/2004	106.34	9.91	96.43	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EA-4	03/21/2005[18]							DESTROYED													DESTROYED				
TRIP BLANK	06/06/1990	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TRIP BLANK	09/11/1990	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TRIP BLANK	12/19/1990	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TRIP BLANK	03/31/1991	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TRIP BLANK	06/18/1991	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TRIP BLANK	08/29/1991	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TRIP BLANK	11/04/1991	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TRIP BLANK	01/20/1992	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	-	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5
TRIP BLANK	01/29/1992	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TRIP BLANK	05/12/1992	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	<0.5	-	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA
CHEVRON SERVICE STATION 96817
1705 CONTRA COSTA BOULEVARD
PLEASANT HILL, CALIFORNIA

					HYDROCARBONS	*PRIMARY VOCS*				*OXYGENATE COMPOUNDS*								*ADDITIONAL VOCS*							
Location	Date	*TOC*	*DTW*	*GWE*	*TPH-GRO*	*B*	*T*	*E*	*X*	*MTBE*	*Ethanol*	*TBA*	*DIPE*	*ETBE*	*TAME*	*1,2-DCA*	*EDB*	*TCE*	*PCE*	*T-1,2-DCE*	*VC*	*C-1,2-DCE*	*CHB*	*CF*	*1,1-DCE*
	Units	*ft*	*ft*	*ft-amsl*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*
TRIP BLANK	08/18/1992	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TRIP BLANK	03/25/1993	-	-	-	<50	<0.5	<0.5	<0.5	<1.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TRIP BLANK	06/16/1993	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TRIP BLANK	10/06/1993	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	<0.5	-	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5
TRIP BLANK	08/24/1994	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TRIP BLANK	12/15/1994	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TRIP BLANK	02/27/1995	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TRIP BLANK	05/18/1995	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TRIP BLANK	08/24/1995	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TRIP BLANK	11/30/1995	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TRIP BLANK	02/19/1996	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TRIP BLANK	05/16/1996	-	-	-	<50	<0.5	1.8	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TRIP BLANK	08/27/1996	-	-	-	<50	<0.5	0.7	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TRIP BLANK	11/13/1996	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<2.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TRIP BLANK	02/20/1997	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<5.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TRIP BLANK	05/16/1997	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<2.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TRIP BLANK	12/02/1997	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<2.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TRIP BLANK	05/07/1998	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<2.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TRIP BLANK	06/17/1999	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<2.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TRIP BLANK	05/22/2000	-	-	-	<50	<0.50	<0.50	<0.50	<0.50	<2.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TRIP BLANK	05/04/2001	-	-	-	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TRIP BLANK	05/03/2002	-	-	-	<50	<0.50	<0.50	<0.50	<1.5	<2.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA	05/12/2003[10]	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA	05/14/2004[11]	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA	05/05/2005[11]	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA	05/31/2006[11]	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA	05/11/2007[11]	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA	05/23/2008[11]	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA	05/21/2009[11]	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA
CHEVRON SERVICE STATION 96817
1705 CONTRA COSTA BOULEVARD
PLEASANT HILL, CALIFORNIA

					HYDROCARBONS	*PRIMARY VOCS*					*OXYGENATE COMPOUNDS*							*ADDITIONAL VOCS*							
Location	Date	*TOC*	*DTW*	*GWE*	*TPH-GRO*	*B*	*T*	*E*	*X*	*MTBE*	*Ethanol*	*TBA*	*DIPE*	*ETBE*	*TAME*	*1,2-DCA*	*EDB*	*TCE*	*PCE*	*T-1,2-DCE*	*VC*	*C-1,2-DCE*	*CHB*	*CF*	*1,1-DCE*
	Units	*ft*	*ft*	*ft-amsl*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*
QA	05/25/2010[11]	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA	05/18/2011	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA	12/02/2011	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA	05/24/2012	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA	05/08/2013	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA	**5/13/2014**	**-**	**-**	**-**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**

Abbreviations and Notes:

TOC = Top of Casing

DTW = Depth to Water

GWE = Groundwater elevation

(ft-amsl) = Feet Above Mean sea level

ft = Feet

µg/L = Micrograms per Liter

TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics

B = Benzene

T = Toluene

E = Ethylbenzene

X = Xylene

MTBE = Methyl tert butyl ether

TBA = Tert-Butyl alcohol

DIPE = Diisopropyl ether

ETBE = Tert-Butyl ethyl ether

TAME = Tert-Amyl methyl ether

1,2-DCA = 1,2-Dichloroethane

EDB = 1,2-Dibromoethane (Ethylene dibromide)

TCE = Trichloroethene

PCE = Tetrachloroethene

T-1,2-DCE = Trans-1,2-Dichloroethene

V.C. = Vinyl Chloride

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA
CHEVRON SERVICE STATION 96817
1705 CONTRA COSTA BOULEVARD
PLEASANT HILL, CALIFORNIA

					HYDROCARBONS	*PRIMARY VOCS*				*OXYGENATE COMPOUNDS*								*ADDITIONAL VOCS*							
Location	Date	*TOC*	*DTW*	*GWE*	*TPH-GRO*	*B*	*T*	*E*	*X*	*MTBE*	*Ethanol*	*TBA*	*DIPE*	*ETBE*	*TAME*	*1,2-DCA*	*EDB*	*TCE*	*PCE*	*T-1,2-DCE*	*VC*	*C-1,2-DCE*	*CHB*	*CF*	*1,1-DCE*
	Units	*ft*	*ft*	*ft-amsl*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*

C-1,2-DCE = Cis-1,2-Dichloroethene

CHB = Chlorobenzene

CF = Chloroform

1,1-DCE = 1,1-Dichloroethene

-- = Not available / not applicable

<x = Not detected above laboratory method detection limit

1 MW-C reported as MW-6 on analytical results of February 27, 1995 sampling.

2 Chromatogram pattern indicates an unidentified hydrocarbon.

3 Laboratory report indicates due to the presence of chlorinated compounds MTBE wasn't able to be quantified.

4 Laboratory report indicates weathered gas.

5 Laboratory report indicates discrete peaks.

6 MTBE by EPA Method 8260.

7 Laboratory report indicates single analyte peak(s) are present in the requested fuel quantitation range. Fuel hydrocarbon pattern is not present.

8 Pump in well.

9 Pump removed from well.

10 TPH-GRO, BTEX, and MTBE by EPA Method 8260.

11 BTEX and MTBE by EPA Method 8260.

12 Connected to remediation system.

13 MW-C reported as MW-6 on analytical results.

14 Methylene chloride was detected at 1.7 ppb. Results are taken from two levels of diluted analysis.

15 Cis-1,3-dichloropropene detected at 0.9 ppb.

16 Inaccessible - Connected to remediation system.

17 Sampled annually.

18 Destroyed on March 21 through 23, 2005 by Cambria Environmental Technology, Inc. and Woodward Drilling Company, Inc.

19 Wells MW-2 through MW-5 belong to Gregory Village Mall located at 1601-1699 Contra Costa Boulevard, Pleasant Hill, California.

TABLE 2

SOIL ANALYTICAL DATA
CHEVRON SERVICE STATION 96817
1705 CONTRA COSTA BOULEVARD
PLEASANT HILL, CALIFORNIA

			HYDROCARBONS	*PRIMARY VOCS*											*ADDITIONAL VOCS*									*PAHS*
Location	Date	Depth	*TPH-GRO*	*B*	*T*	*E*	*m&p-Xylenes*	*o-Xylene*	*MTBE by SW8260*	*TBA*	*DIPE*	*ETBE*	*TAME*	*EDB*	*1,1-DCE*	*1,2-DCA*	*CHB*	*CF*	*C-1,2-DCE*	*PCE*	*T-1,2-DCE*	*TCE*	*VC*	*Naphthalene*
	Units	ft	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*
CPT-1	**12/12/2011**	**10**	**<1.0**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.10**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**0.003**	**<0.005**	**<0.005**	**0.017**	**<0.005**	**<0.005**
CPT-1	**12/12/2011**	**20**	**<0.9**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.11**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**0.004**	**0.072**	**<0.005**	**0.014**	**<0.005**	**<0.005**
CPT-1	**12/12/2011**	**34**	**<0.9**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.099**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**0.046**	**<0.005**	**0.012**	**<0.005**	**<0.005**
CPT-2	**12/14/2011**	**10**	**<1.0**	**<0.0005**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.0005**	**<0.020**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**0.004**	**<0.001**	**<0.001**	**<0.001**	**<0.001**
CPT-2	**12/14/2011**	**20**	**<1**	**<0.0005**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**0.003**	**<0.020**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**0.010**	**0.033**	**0.001**	**0.016**	**<0.001**	**<0.001**
CPT-2	**12/14/2011**	**34**	**<1**	**<0.0005**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.0005**	**<0.020**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**0.004**	**0.040**	**<0.001**	**0.014**	**<0.001**	**<0.001**
CPT-3	**12/13/2011**	**10**	**<1**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.10**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**0.009**	**<0.005**	**<0.005**	**<0.005**	**<0.005**
CPT-3	**12/13/2011**	**19.5**	**<1.0**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.11**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**0.006**	**<0.005**	**0.002**	**<0.005**	**<0.005**
CPT-3	**12/13/2011**	**34.5**	**<1**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.10**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**0.008**	**0.013**	**<0.005**	**0.022**	**<0.005**	**<0.005**
CPT-4	**12/13/2011**	**10**	**<1.0**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.10**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**
CPT-4	**12/13/2011**	**20**	**<0.9**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.096**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**0.001**	**<0.005**	**<0.005**	**<0.005**	**<0.005**
CPT-4	**12/13/2011**	**34.5**	**<1**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**0.005**	**<0.098**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**0.003**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**

TABLE 2

SOIL ANALYTICAL DATA
CHEVRON SERVICE STATION 96817
1705 CONTRA COSTA BOULEVARD
PLEASANT HILL, CALIFORNIA

			HYDROCARBONS	*PRIMARY VOCS*											*ADDITIONAL VOCS*									*PAHS*
Location	Date	Depth	*TPH-GRO*	*B*	*T*	*E*	*m&p-Xylenes*	*o-Xylene*	*MTBE by SW8260*	*TBA*	*DIPE*	*ETBE*	*TAME*	*EDB*	*1,1-DCE*	*1,2-DCA*	*CHB*	*CF*	*C-1,2-DCE*	*PCE*	*T-1,2-DCE*	*TCE*	*VC*	*Naphthalene*
	Units	ft	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*
CPT-5	**12/14/2011**	**10**	**<1**	**<0.0005**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.0005**	**<0.020**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**
CPT-5	**12/14/2011**	**20**	**<1**	**<0.0005**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.0005**	**<0.020**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**0.004**	**0.005**	**<0.001**	**0.005**	**<0.001**	**<0.001**
CPT-5	**12/14/2011**	**34**	**<1**	**<0.0005**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.0005**	**<0.020**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**0.002**	**<0.001**	**0.002**	**<0.001**	**<0.001**
CPT-6	**12/15/2011**	**10**	**<1**	**<0.0005**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.0005**	**<0.021**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**
CPT-6	**12/15/2011**	**20**	**<1**	**<0.0005**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**0.0007**	**<0.021**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**0.003**	**0.014**	**<0.001**	**0.004**	**<0.001**	**<0.001**
CPT-6	**12/15/2011**	**35**	**<1.0**	**<0.0005**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.0005**	**<0.020**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**0.012**	**<0.001**	**0.002**	**<0.001**	**<0.001**
CPT-7	**12/07/2011**	**10**	**<1**	**<0.0005**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.0005**	**<0.020**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**0.001**	**<0.001**	**<0.001**	**0.002**	**<0.001**	**<0.001**
CPT-7	**12/07/2011**	**19.5**	**<1**	**<0.0005**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.0005**	**<0.020**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**0.002**	**0.20**	**<0.001**	**0.007**	**<0.001**	**<0.001**
CPT-7	**12/07/2011**	**35**	**<1.1**	**<0.0005**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.0005**	**<0.020**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**0.002**	**0.002**	**<0.001**	**0.022**	**<0.001**	**<0.001**
CPT-8	**12/09/2011**	**10**	**<1**	**<0.0005**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.0005**	**<0.020**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**0.006**	**<0.001**	**0.002**	**<0.001**	**<0.001**
CPT-8	**12/09/2011**	**20**	**<1.0**	**<0.0005**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.0005**	**<0.020**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**0.23**	**<0.001**	**0.005**	**<0.001**	**<0.001**
CPT-8	**12/09/2011**	**36**	**<1.0**	**<0.0005**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.0005**	**<0.020**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**0.12**	**<0.001**	**0.007**	**<0.001**	**<0.001**

TABLE 2

SOIL ANALYTICAL DATA
CHEVRON SERVICE STATION 96817
1705 CONTRA COSTA BOULEVARD
PLEASANT HILL, CALIFORNIA

			HYDROCARBONS	*PRIMARY VOCS*											*ADDITIONAL VOCS*									*PAHS*
Location	Date	Depth	*TPH-GRO*	*B*	*T*	*E*	*m&p-Xylenes*	*o-Xylene*	*MTBE by SW8260*	*TBA*	*DIPE*	*ETBE*	*TAME*	*EDB*	*1,1-DCE*	*1,2-DCA*	*CHB*	*CF*	*C-1,2-DCE*	*PCE*	*T-1,2-DCE*	*TCE*	*VC*	*Naphthalene*
	Units	ft	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*
CPT-9	**12/12/2011**	**10**	**<1**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.10**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**
CPT-9	**12/12/2011**	**19**	**<1.0**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.099**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**
CPT-9	**12/12/2011**	**34.5**	**<10**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.10**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**
CPT-10	**12/12/2011**	**10**	**<1**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.098**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**
CPT-10	**12/12/2011**	**20**	**<0.9**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**0.004**	**<0.10**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**
CPT-10	**12/12/2011**	**35**	**<1**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**0.011**	**<0.098**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**
CPT-11	**12/16/2011**	**10**	**<1.0**	**<0.0005**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.0005**	**<0.020**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**
CPT-11	**12/16/2011**	**20**	**<1.0**	**<0.0005**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.0005**	**<0.020**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**
CPT-11	**12/16/2011**	**35**	**<1.0**	**<0.0005**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.0005**	**<0.020**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**
CPT-12	**12/20/2011**	**10**	**<0.9**	**<0.0005**	**<0.0009**	**<0.0009**	**<0.0009**	**<0.0009**	**<0.0005**	**<0.019**	**<0.0009**	**<0.0009**	**<0.0009**	**<0.0009**	**<0.0009**	**<0.0009**	**<0.0009**	**<0.0009**	**<0.0009**	**<0.0009**	**<0.0009**	**<0.0009**	**<0.0009**	**<0.0009**
CPT-12	**12/20/2011**	**19.5**	**<1**	**<0.0005**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.0005**	**<0.019**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**
CPT-12	**12/20/2011**	**34.5**	**<1**	**<0.0005**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.0005**	**<0.019**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**

TABLE 2

SOIL ANALYTICAL DATA
CHEVRON SERVICE STATION 96817
1705 CONTRA COSTA BOULEVARD
PLEASANT HILL, CALIFORNIA

			HYDROCARBONS	*PRIMARY VOCS*											*ADDITIONAL VOCS*									*PAHS*
Location	Date	Depth	*TPH-GRO*	*B*	*T*	*E*	*m&p-Xylenes*	*o-Xylene*	*MTBE by SW8260*	*TBA*	*DIPE*	*ETBE*	*TAME*	*EDB*	*1,1-DCE*	*1,2-DCA*	*CHB*	*CF*	*C-1,2-DCE*	*PCE*	*T-1,2-DCE*	*TCE*	*VC*	*Naphthalene*
	Units	ft	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*
CPT-13	**12/20/2011**	**9.5**	**<1**	**<0.0005**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**0.0005**	**<0.020**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**0.18**	**0.34**	**0.009**	**0.21**	**<0.001**	**<0.001**
CPT-13	**12/20/2011**	**20**	**<1**	**<0.0005**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.0005**	**<0.019**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**0.004**	**<0.001**	**<0.001**	**0.002**	**<0.001**	**<0.001**
CPT-13	**12/20/2011**	**29.5**	**<1**	**<0.0005**	**<0.0009**	**<0.0009**	**<0.0009**	**<0.0009**	**<0.0005**	**<0.019**	**<0.0009**	**<0.0009**	**<0.0009**	**<0.0009**	**<0.0009**	**<0.0009**	**<0.0009**	**<0.0009**	**0.004**	**0.002**	**<0.0009**	**0.002**	**<0.0009**	**<0.0009**
CPT-14	**12/19/2011**	**10**	**7.5**	**<0.024**	**<0.048**	**<0.048**	**<0.048**	**<0.048**	**<0.024**	**<0.96**	**<0.048**	**<0.048**	**<0.048**	**<0.048**	**<0.048**	**<0.048**	**<0.048**	**<0.048**	**0.24**	**19**	**<0.048**	**0.27**	**<0.048**	**<0.048**
CPT-14	**12/19/2011**	**20**	**<1**	**<0.0005**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.0005**	**<0.019**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**0.001**	**0.014**	**<0.001**	**<0.001**	**<0.001**	**<0.001**
CPT-14	**12/19/2011**	**34.5**	**6.2**	**<0.023**	**<0.047**	**<0.047**	**<0.047**	**<0.047**	**<0.023**	**<0.94**	**<0.047**	**<0.047**	**<0.047**	**<0.047**	**<0.047**	**<0.047**	**<0.047**	**<0.047**	**<0.047**	**20**	**<0.047**	**0.085**	**<0.047**	**<0.047**
CPT-15	**12/16/2011**	**10**	**44**	**<0.025**	**<0.050**	**<0.050**	**<0.050**	**<0.050**	**<0.025**	**<0.99**	**<0.050**	**<0.050**	**<0.050**	**<0.050**	**<0.050**	**<0.050**	**<0.050**	**<0.050**	**<0.050**	**<0.050**	**<0.050**	**<0.050**	**<0.050**	**0.090**
CPT-15	**12/16/2011**	**19.5**	**<10**	**<0.0005**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.0005**	**<0.020**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**
CPT-15	**12/16/2011**	**34.5**	**<1**	**<0.0005**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.0005**	**<0.020**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**0.002**	**0.009**	**<0.001**	**0.004**	**<0.001**	**<0.001**
CPT-16	**12/19/2011**	**12**	**390**	**0.23**	**<0.047**	**0.39**	**<0.047**	**<0.047**	**<0.024**	**<0.95**	**<0.047**	**<0.047**	**<0.047**	**<0.047**	**<0.047**	**<0.047**	**<0.047**	**<0.047**	**<0.047**	**0.46**	**<0.047**	**<0.047**	**<0.047**	**4.2**
CPT-16	**12/19/2011**	**20.5**	**<1**	**0.001**	**<0.0009**	**<0.0009**	**<0.0009**	**<0.0009**	**<0.0005**	**<0.019**	**<0.0009**	**<0.0009**	**<0.0009**	**<0.0009**	**<0.0009**	**<0.0009**	**<0.0009**	**<0.0009**	**<0.0009**	**0.069**	**<0.0009**	**0.005**	**<0.0009**	**<0.0009**
CPT-16	**12/19/2011**	**34.5**	**<0.9**	**<0.0005**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.0005**	**<0.019**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**0.001**	**0.15**	**<0.001**	**0.042**	**<0.001**	**<0.001**

TABLE 2

SOIL ANALYTICAL DATA
CHEVRON SERVICE STATION 96817
1705 CONTRA COSTA BOULEVARD
PLEASANT HILL, CALIFORNIA

			HYDROCARBONS	*PRIMARY VOCS*											*ADDITIONAL VOCS*									*PAHS*
Location	Date	Depth	*TPH-GRO*	*B*	*T*	*E*	*m&p-Xylenes*	*o-Xylene*	*MTBE by SW8260*	*TBA*	*DIPE*	*ETBE*	*TAME*	*EDB*	*1,1-DCE*	*1,2-DCA*	*CHB*	*CF*	*C-1,2-DCE*	*PCE*	*T-1,2-DCE*	*TCE*	*VC*	*Naphthalene*
	Units	ft	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*
CPT-17	**12/21/2011**	**10**	**<1.0**	**<0.0005**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.0005**	**<0.020**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**0.020**	**<0.001**	**<0.001**	**<0.001**	**<0.001**
CPT-17	**12/21/2011**	**19.5**	**<1.0**	**<0.0005**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.0005**	**<0.019**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**0.11**	**<0.001**	**<0.001**	**<0.001**	**<0.001**
CPT-17	**12/21/2011**	**34.5**	**<1.0**	**<0.0005**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.0005**	**<0.020**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**0.001**	**0.14**	**<0.001**	**0.003**	**<0.001**	**<0.001**
CPT-18	**12/21/2011**	**10**	**<1**	**<0.0005**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.0005**	**<0.020**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**0.090**	**0.32**	**0.003**	**0.065**	**<0.001**	**<0.001**
CPT-18	**12/21/2011**	**19.5**	**<1.1**	**<0.0005**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.0005**	**<0.019**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**0.014**	**0.25**	**<0.001**	**0.027**	**<0.001**	**<0.001**
CPT-18	**12/21/2011**	**34.5**	**<1.1**	**<0.0005**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.0005**	**<0.020**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**
CPT-19	**12/01/2011[1]**	**10**	**<1**	**<0.0005**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.0005**	**<0.020**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**
CPT-19	**12/01/2011[1]**	**20**	**<1.0**	**<0.0005**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**0.002**	**<0.021**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**
CPT-19	**12/01/2011[1]**	**35**	**<1**	**<0.0005**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.0005**	**<0.019**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**
CPT-20	**12/15/2011**	**10**	**<1.0**	**<0.0005**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.0005**	**<0.020**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**
CPT-20	**12/15/2011**	**17**	**<1**	**<0.0005**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.0005**	**<0.020**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**
CPT-20	**12/15/2011**	**20**	**<1**	**<0.0005**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.0005**	**<0.020**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**

TABLE 2

SOIL ANALYTICAL DATA
CHEVRON SERVICE STATION 96817
1705 CONTRA COSTA BOULEVARD
PLEASANT HILL, CALIFORNIA

			HYDROCARBONS	*PRIMARY VOCS*											*ADDITIONAL VOCS*									*PAHS*
Location	Date	Depth	*TPH-GRO*	*B*	*T*	*E*	*m&p-Xylenes*	*o-Xylene*	*MTBE by SW8260*	*TBA*	*DIPE*	*ETBE*	*TAME*	*EDB*	*1,1-DCE*	*1,2-DCA*	*CHB*	*CF*	*C-1,2-DCE*	*PCE*	*T-1,2-DCE*	*TCE*	*VC*	*Naphthalene*
	Units	ft	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*
CPT-20	**12/15/2011**	**32**	**<1.0**	**<0.0005**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.0005**	**<0.020**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**
VP-1	**12/07/2011**	**5**	**1.7**	**<0.0005**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.0005**	**<0.020**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**0.45**	**1.2**	**0.009**	**1.4**	**<0.001**	**<0.001**
VP-1	**12/07/2011**	**5.5**	**<1.0**	**<0.0005**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.0005**	**<0.020**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**0.18**	**0.94**	**0.002**	**0.51**	**<0.001**	**<0.001**
VP-2	**12/06/2011**	**5**	**<1.1**	**<0.0005**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.0005**	**<0.021**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**
VP-2	**12/06/2011**	**7.5**	**<0.9**	**<0.0005**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.0005**	**<0.020**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**
VP-3	**12/06/2011**	**5**	**<0.9**	**<0.0005**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.0005**	**<0.019**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**0.029**	**<0.001**	**0.002**	**<0.001**	**<0.001**
VP-3	**12/06/2011**	**7.5**	**<0.9**	**<0.0005**	**<0.0009**	**<0.0009**	**<0.0009**	**<0.0009**	**<0.0005**	**<0.019**	**<0.0009**	**<0.0009**	**<0.0009**	**<0.0009**	**<0.0009**	**<0.0009**	**<0.0009**	**<0.0009**	**<0.0009**	**0.017**	**<0.0009**	**<0.0009**	**<0.0009**	**<0.0009**

TABLE 2

SOIL ANALYTICAL DATA
CHEVRON SERVICE STATION 96817
1705 CONTRA COSTA BOULEVARD
PLEASANT HILL, CALIFORNIA

		GENERAL CHEMISTRY	*VOCS*																						
Location	Date	*Ethanol*	*1,1,1,2-Tetrachloroethane*	*1,1,1-Trichloroethane*	*1,1,2,2-Tetrachloroethane*	*1,1,2-Trichloroethane*	*1,1-Dichloroethane*	*1,1-Dichloropropene*	*1,2,3-Trichlorobenzene*	*1,2,3-Trichloropropane*	*1,2,4-Trichlorobenzene*	*1,2,4-Trimethylbenzene*	*1,2-Dibromo-3-chloropropane (DBCP)*	*1,2-Dichlorobenzene*	*1,2-Dichloropropane*	*1,3,5-Trimethylbenzene*	*1,3-Dichlorobenzene*	*1,3-Dichloropropane*	*1,4-Dichlorobenzene*	*2,2-Dichloropropane*	*2-Butanone (Methyl ethyl ketone) (MEK)*	*2-Chloroethyl vinyl ether*	*2-Chlorotoluene*	*2-Hexanone*	*2-Phenylbutane (sec-Butylbenzene)*
	Units	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*
CPT-1	**12/12/2011**	**<0.50**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.010**	**<0.010**	**<0.005**	**<0.010**	**<0.005**
CPT-1	**12/12/2011**	**<0.53**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.011**	**<0.011**	**<0.005**	**<0.011**	**<0.005**
CPT-1	**12/12/2011**	**<0.49**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.01**	**<0.01**	**<0.005**	**<0.01**	**<0.005**
CPT-2	**12/14/2011**	**<0.10**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.002**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.004**	**<0.002**	**<0.001**	**<0.003**	**<0.001**
CPT-2	**12/14/2011**	**<0.099**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.002**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.004**	**<0.002**	**<0.001**	**<0.003**	**<0.001**
CPT-2	**12/14/2011**	**<0.098**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.002**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.004**	**<0.002**	**<0.001**	**<0.003**	**<0.001**
CPT-3	**12/13/2011**	**<0.52**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.010**	**<0.010**	**<0.005**	**<0.010**	**<0.005**
CPT-3	**12/13/2011**	**<0.54**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.011**	**<0.011**	**<0.005**	**<0.011**	**<0.005**
CPT-3	**12/13/2011**	**<0.51**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.010**	**<0.010**	**<0.005**	**<0.010**	**<0.005**
CPT-4	**12/13/2011**	**<0.51**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.010**	**<0.010**	**<0.005**	**<0.010**	**<0.005**
CPT-4	**12/13/2011**	**<0.48**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.01**	**<0.01**	**<0.005**	**<0.01**	**<0.005**
CPT-4	**12/13/2011**	**<0.49**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.01**	**<0.01**	**<0.005**	**<0.01**	**<0.005**

TABLE 2

SOIL ANALYTICAL DATA
CHEVRON SERVICE STATION 96817
1705 CONTRA COSTA BOULEVARD
PLEASANT HILL, CALIFORNIA

		GENERAL CHEMISTRY	*VOCS*																						
Location	Date	*Ethanol*	*1,1,1,2-Tetrachloroethane*	*1,1,1-Trichloroethane*	*1,1,2,2-Tetrachloroethane*	*1,1,2-Trichloroethane*	*1,1-Dichloroethane*	*1,1-Dichloropropene*	*1,2,3-Trichlorobenzene*	*1,2,3-Trichloropropane*	*1,2,4-Trichlorobenzene*	*1,2,4-Trimethylbenzene*	*1,2-Dibromo-3-chloropropane (DBCP)*	*1,2-Dichlorobenzene*	*1,2-Dichloropropane*	*1,3,5-Trimethylbenzene*	*1,3-Dichlorobenzene*	*1,3-Dichloropropane*	*1,4-Dichlorobenzene*	*2,2-Dichloropropane*	*2-Butanone (Methyl ethyl ketone) (MEK)*	*2-Chloroethyl vinyl ether*	*2-Chlorotoluene*	*2-Hexanone*	*2-Phenylbutane (sec-Butylbenzene)*
	Units	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*
CPT-5	**12/14/2011**	**<0.099**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.002**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.004**	**<0.002**	**<0.001**	**<0.003**	**<0.001**
CPT-5	**12/14/2011**	**<0.099**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.002**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.004**	**<0.002**	**<0.001**	**<0.003**	**<0.001**
CPT-5	**12/14/2011**	**<0.098**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.002**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.004**	**<0.002**	**<0.001**	**<0.003**	**<0.001**
CPT-6	**12/15/2011**	**<0.10**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.002**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.004**	**<0.002**	**<0.001**	**<0.003**	**<0.001**
CPT-6	**12/15/2011**	**<0.10**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.002**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.004**	**<0.002**	**<0.001**	**<0.003**	**<0.001**
CPT-6	**12/15/2011**	**<0.099**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.002**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.004**	**<0.002**	**<0.001**	**<0.003**	**<0.001**
CPT-7	**12/07/2011**	**<0.099**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.002**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.004**	**<0.002**	**<0.001**	**<0.003**	**<0.001**
CPT-7	**12/07/2011**	**<0.10**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.002**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.004**	**<0.002**	**<0.001**	**<0.003**	**<0.001**
CPT-7	**12/07/2011**	**<0.10**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.002**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.004**	**<0.002**	**<0.001**	**<0.003**	**<0.001**
CPT-8	**12/09/2011**	**<0.10**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.002**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.004**	**<0.002**	**<0.001**	**<0.003**	**<0.001**
CPT-8	**12/09/2011**	**<0.10**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.002**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.004**	**<0.002**	**<0.001**	**<0.003**	**<0.001**
CPT-8	**12/09/2011**	**<0.10**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.002**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.004**	**<0.002**	**<0.001**	**<0.003**	**<0.001**

TABLE 2

SOIL ANALYTICAL DATA
CHEVRON SERVICE STATION 96817
1705 CONTRA COSTA BOULEVARD
PLEASANT HILL, CALIFORNIA

		GENERAL CHEMISTRY	*VOCS*																						
Location	Date	*Ethanol*	*1,1,1,2-Tetrachloroethane*	*1,1,1-Trichloroethane*	*1,1,2,2-Tetrachloroethane*	*1,1,2-Trichloroethane*	*1,1-Dichloroethane*	*1,1-Dichloropropene*	*1,2,3-Trichlorobenzene*	*1,2,3-Trichloropropane*	*1,2,4-Trichlorobenzene*	*1,2,4-Trimethylbenzene*	*1,2-Dibromo-3-chloropropane (DBCP)*	*1,2-Dichlorobenzene*	*1,2-Dichloropropane*	*1,3,5-Trimethylbenzene*	*1,3-Dichlorobenzene*	*1,3-Dichloropropane*	*1,4-Dichlorobenzene*	*2,2-Dichloropropane*	*2-Butanone (Methyl ethyl ketone) (MEK)*	*2-Chloroethyl vinyl ether*	*2-Chlorotoluene*	*2-Hexanone*	*2-Phenylbutane (sec-Butylbenzene)*
	Units	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*
CPT-9	**12/12/2011**	**<0.50**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.01**	**<0.01**	**<0.005**	**<0.01**	**<0.005**
CPT-9	**12/12/2011**	**<0.50**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.01**	**<0.01**	**<0.005**	**<0.01**	**<0.005**
CPT-9	**12/12/2011**	**<0.50**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**0.005**	**<0.010**	**<0.005**	**<0.010**	**<0.005**
CPT-10	**12/12/2011**	**<0.49**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.01**	**<0.01**	**<0.005**	**<0.01**	**<0.005**
CPT-10	**12/12/2011**	**<0.50**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.010**	**<0.010**	**<0.005**	**<0.010**	**<0.005**
CPT-10	**12/12/2011**	**<0.49**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.01**	**<0.01**	**<0.005**	**<0.01**	**<0.005**
CPT-11	**12/16/2011**	**<0.099**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.002**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.004**	**<0.002**	**<0.001**	**<0.003**	**<0.001**
CPT-11	**12/16/2011**	**<0.10**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.002**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.004**	**<0.002**	**<0.001**	**<0.003**	**<0.001**
CPT-11	**12/16/2011**	**<0.099**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.002**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.004**	**<0.002**	**<0.001**	**<0.003**	**<0.001**
CPT-12	**12/20/2011**	**<0.094**	**<0.0009**	**<0.0009**	**<0.0009**	**<0.0009**	**<0.0009**	**<0.0009**	**<0.0009**	**<0.0009**	**<0.0009**	**<0.0009**	**<0.002**	**<0.0009**	**<0.0009**	**<0.0009**	**<0.0009**	**<0.0009**	**<0.0009**	**<0.0009**	**<0.004**	**<0.002**	**<0.0009**	**<0.003**	**<0.0009**
CPT-12	**12/20/2011**	**<0.097**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.002**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.004**	**<0.002**	**<0.001**	**<0.003**	**<0.001**
CPT-12	**12/20/2011**	**<0.097**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.002**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.004**	**<0.002**	**<0.001**	**<0.003**	**<0.001**

TABLE 2

SOIL ANALYTICAL DATA
CHEVRON SERVICE STATION 96817
1705 CONTRA COSTA BOULEVARD
PLEASANT HILL, CALIFORNIA

		GENERAL CHEMISTRY	*VOCS*																						
Location	Date	*Ethanol*	*1,1,1,2-Tetrachloroethane*	*1,1,1-Trichloroethane*	*1,1,2,2-Tetrachloroethane*	*1,1,2-Trichloroethane*	*1,1-Dichloroethane*	*1,1-Dichloropropene*	*1,2,3-Trichlorobenzene*	*1,2,3-Trichloropropane*	*1,2,4-Trichlorobenzene*	*1,2,4-Trimethylbenzene*	*1,2-Dibromo-3-chloropropane (DBCP)*	*1,2-Dichlorobenzene*	*1,2-Dichloropropane*	*1,3,5-Trimethylbenzene*	*1,3-Dichlorobenzene*	*1,3-Dichloropropane*	*1,4-Dichlorobenzene*	*2,2-Dichloropropane*	*2-Butanone (Methyl ethyl ketone) (MEK)*	*2-Chloroethyl vinyl ether*	*2-Chlorotoluene*	*2-Hexanone*	*2-Phenylbutane (sec-Butylbenzene)*
	Units	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*
CPT-13	**12/20/2011**	**<0.098**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.002**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.004**	**<0.002**	**<0.001**	**<0.003**	**<0.001**
CPT-13	**12/20/2011**	**<0.097**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.002**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.004**	**<0.002**	**<0.001**	**<0.003**	**<0.001**
CPT-13	**12/20/2011**	**<0.093**	**<0.0009**	**<0.0009**	**<0.0009**	**<0.0009**	**<0.0009**	**<0.0009**	**<0.0009**	**<0.0009**	**<0.0009**	**<0.0009**	**<0.002**	**<0.0009**	**<0.0009**	**<0.0009**	**<0.0009**	**<0.0009**	**<0.0009**	**<0.0009**	**<0.004**	**<0.002**	**<0.0009**	**<0.003**	**<0.0009**
CPT-14	**12/19/2011**	**<4.8**	**<0.048**	**<0.048**	**<0.048**	**<0.048**	**<0.048**	**<0.048**	**<0.048**	**<0.048**	**<0.048**	**<0.048**	**<0.096**	**<0.048**	**<0.048**	**<0.048**	**<0.048**	**<0.048**	**<0.048**	**<0.048**	**<0.19**	**<0.096**	**<0.048**	**<0.14**	**<0.048**
CPT-14	**12/19/2011**	**<0.095**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.002**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.004**	**<0.002**	**<0.001**	**<0.003**	**<0.001**
CPT-14	**12/19/2011**	**<4.7**	**<0.047**	**<0.047**	**<0.047**	**<0.047**	**<0.047**	**<0.047**	**<0.047**	**<0.047**	**<0.047**	**<0.047**	**<0.094**	**<0.047**	**<0.047**	**<0.047**	**<0.047**	**<0.047**	**<0.047**	**<0.047**	**<0.19**	**<0.094**	**<0.047**	**<0.14**	**<0.047**
CPT-15	**12/16/2011**	**<5.0**	**<0.050**	**<0.050**	**<0.050**	**<0.050**	**<0.050**	**<0.050**	**<0.050**	**<0.050**	**<0.050**	**<0.050**	**<0.099**	**<0.050**	**<0.050**	**<0.050**	**<0.050**	**<0.050**	**<0.050**	**<0.050**	**<0.20**	**<0.099**	**<0.050**	**<0.15**	**0.12**
CPT-15	**12/16/2011**	**<0.099**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.002**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.004**	**<0.002**	**<0.001**	**<0.003**	**<0.001**
CPT-15	**12/16/2011**	**<0.10**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.002**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.004**	**<0.002**	**<0.001**	**<0.003**	**<0.001**
CPT-16	**12/19/2011**	**<4.7**	**<0.047**	**<0.047**	**<0.047**	**3.2**	**<0.047**	**<0.047**	**<0.047**	**<0.047**	**<0.047**	**<0.047**	**<0.095**	**<0.047**	**<0.047**	**0.14**	**<0.047**	**<0.047**	**<0.047**	**<0.047**	**<0.19**	**<0.095**	**<0.047**	**5.0**	**1.1**
CPT-16	**12/19/2011**	**<0.094**	**<0.0009**	**<0.0009**	**<0.0009**	**<0.0009**	**<0.0009**	**<0.0009**	**<0.0009**	**<0.0009**	**<0.0009**	**<0.0009**	**<0.002**	**<0.0009**	**<0.0009**	**<0.0009**	**<0.0009**	**<0.0009**	**<0.0009**	**<0.0009**	**<0.004**	**<0.002**	**<0.0009**	**<0.003**	**<0.0009**
CPT-16	**12/19/2011**	**<0.097**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.002**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.004**	**<0.002**	**<0.001**	**<0.003**	**<0.001**

TABLE 2

SOIL ANALYTICAL DATA
CHEVRON SERVICE STATION 96817
1705 CONTRA COSTA BOULEVARD
PLEASANT HILL, CALIFORNIA

		GENERAL CHEMISTRY	*VOCS*																						
Location	Date	*Ethanol*	*1,1,1,2-Tetrachloroethane*	*1,1,1-Trichloroethane*	*1,1,2,2-Tetrachloroethane*	*1,1,2-Trichloroethane*	*1,1-Dichloroethane*	*1,1-Dichloropropene*	*1,2,3-Trichlorobenzene*	*1,2,3-Trichloropropane*	*1,2,4-Trichlorobenzene*	*1,2,4-Trimethylbenzene*	*1,2-Dibromo-3-chloropropane (DBCP)*	*1,2-Dichlorobenzene*	*1,2-Dichloropropane*	*1,3,5-Trimethylbenzene*	*1,3-Dichlorobenzene*	*1,3-Dichloropropane*	*1,4-Dichlorobenzene*	*2,2-Dichloropropane*	*2-Butanone (Methyl ethyl ketone) (MEK)*	*2-Chloroethyl vinyl ether*	*2-Chlorotoluene*	*2-Hexanone*	*2-Phenylbutane (sec-Butylbenzene)*
	Units	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*
CPT-17	**12/21/2011**	**<0.10**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.002**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.004**	**<0.002**	**<0.001**	**<0.003**	**<0.001**
CPT-17	**12/21/2011**	**<0.096**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.002**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.004**	**<0.002**	**<0.001**	**<0.003**	**<0.001**
CPT-17	**12/21/2011**	**<0.10**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.002**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.004**	**<0.002**	**<0.001**	**<0.003**	**<0.001**
CPT-18	**12/21/2011**	**<0.10**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.002**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.004**	**<0.002**	**<0.001**	**<0.003**	**<0.001**
CPT-18	**12/21/2011**	**<0.096**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.002**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.004**	**<0.002**	**<0.001**	**<0.003**	**<0.001**
CPT-18	**12/21/2011**	**<0.10**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.002**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.004**	**<0.002**	**<0.001**	**<0.003**	**<0.001**
CPT-19	**12/01/2011[1]**	**0.14**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.002**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.004**	**<0.002**	**<0.001**	**<0.003**	**<0.001**
CPT-19	**12/01/2011[1]**	**0.16**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.002**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.004**	**<0.002**	**<0.001**	**<0.003**	**<0.001**
CPT-19	**12/01/2011[1]**	**0.15**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.002**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.004**	**<0.002**	**<0.001**	**<0.003**	**<0.001**
CPT-20	**12/15/2011**	**<0.10**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.002**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.004**	**<0.002**	**<0.001**	**<0.003**	**<0.001**
CPT-20	**12/15/2011**	**<0.10**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.002**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.004**	**<0.002**	**<0.001**	**<0.003**	**<0.001**
CPT-20	**12/15/2011**	**<0.10**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.002**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.004**	**<0.002**	**<0.001**	**<0.003**	**<0.001**

TABLE 2

SOIL ANALYTICAL DATA
CHEVRON SERVICE STATION 96817
1705 CONTRA COSTA BOULEVARD
PLEASANT HILL, CALIFORNIA

		GENERAL CHEMISTRY	*VOCS*																						
Location	Date	*Ethanol*	*1,1,1,2-Tetrachloroethane*	*1,1,1-Trichloroethane*	*1,1,2,2-Tetrachloroethane*	*1,1,2-Trichloroethane*	*1,1-Dichloroethane*	*1,1-Dichloropropene*	*1,2,3-Trichlorobenzene*	*1,2,3-Trichloropropane*	*1,2,4-Trichlorobenzene*	*1,2,4-Trimethylbenzene*	*1,2-Dibromo-3-chloropropane (DBCP)*	*1,2-Dichlorobenzene*	*1,2-Dichloropropane*	*1,3,5-Trimethylbenzene*	*1,3-Dichlorobenzene*	*1,3-Dichloropropane*	*1,4-Dichlorobenzene*	*2,2-Dichloropropane*	*2-Butanone (Methyl ethyl ketone) (MEK)*	*2-Chloroethyl vinyl ether*	*2-Chlorotoluene*	*2-Hexanone*	*2-Phenylbutane (sec-Butylbenzene)*
	Units	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*
CPT-20	**12/15/2011**	**<0.099**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.002**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.004**	**<0.002**	**<0.001**	**<0.003**	**<0.001**
VP-1	**12/07/2011**	**<0.10**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.002**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.004**	**<0.002**	**<0.001**	**<0.003**	**<0.001**
VP-1	**12/07/2011**	**<0.10**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.002**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.004**	**<0.002**	**<0.001**	**<0.003**	**<0.001**
VP-2	**12/06/2011**	**<0.10**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.002**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.004**	**<0.002**	**<0.001**	**<0.003**	**<0.001**
VP-2	**12/06/2011**	**<0.10**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.002**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**0.004**	**<0.002**	**<0.001**	**<0.003**	**<0.001**
VP-3	**12/06/2011**	**<0.097**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.002**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.004**	**<0.002**	**<0.001**	**<0.003**	**<0.001**
VP-3	**12/06/2011**	**<0.093**	**<0.0009**	**<0.0009**	**<0.0009**	**<0.0009**	**<0.0009**	**<0.0009**	**<0.0009**	**<0.0009**	**<0.0009**	**<0.0009**	**<0.002**	**<0.0009**	**<0.0009**	**<0.0009**	**<0.0009**	**<0.0009**	**<0.0009**	**<0.0009**	**<0.004**	**<0.002**	**<0.0009**	**<0.003**	**<0.0009**

TABLE 2

SOIL ANALYTICAL DATA
CHEVRON SERVICE STATION 96817
1705 CONTRA COSTA BOULEVARD
PLEASANT HILL, CALIFORNIA

		VOCS																				VOCS						
Location	Date	4-Chlorotoluene	4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	Acetone	Bromobenzene	Bromodichloromethane	Bromoform	Bromomethane (Methyl bromide)	Carbon disulfide	Carbon tetrachloride	Chlorobromomethane	Chloroethane	Chloromethane (Methyl chloride)	cis-1,3-Dichloropropene	Cymene (p-Isopropyltoluene)	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane (CFC-12)	Hexachlorobutadiene	Isopropyl benzene	Methylene chloride	N-Butylbenzene	N-Propylbenzene	Styrene	tert-Butylbenzene	trans-1,3-Dichloropropene	Trichlorofluoromethane (CFC-11)	Trifluorotrichloroethane (Freon 113)
	Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
CPT-1	12/12/2011	<0.005	<0.010	<0.020	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
CPT-1	12/12/2011	<0.005	<0.011	<0.021	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.011
CPT-1	12/12/2011	<0.005	<0.01	<0.020	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01
CPT-2	12/14/2011	<0.001	<0.003	<0.007	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.002	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
CPT-2	12/14/2011	<0.001	<0.003	<0.007	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.002	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
CPT-2	12/14/2011	<0.001	<0.003	<0.007	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.002	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.001	0.006	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
CPT-3	12/13/2011	<0.005	<0.010	<0.021	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
CPT-3	12/13/2011	<0.005	<0.011	<0.022	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.011
CPT-3	12/13/2011	<0.005	<0.010	<0.020	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
CPT-4	12/13/2011	<0.005	<0.010	<0.020	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
CPT-4	12/13/2011	<0.005	<0.01	<0.019	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01
CPT-4	12/13/2011	<0.005	<0.01	<0.020	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01

TABLE 2

SOIL ANALYTICAL DATA
CHEVRON SERVICE STATION 96817
1705 CONTRA COSTA BOULEVARD
PLEASANT HILL, CALIFORNIA

		VOCS																				VOCS						
Location	Date	4-Chlorotoluene	4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	Acetone	Bromobenzene	Bromodichloromethane	Bromoform	Bromomethane (Methyl bromide)	Carbon disulfide	Carbon tetrachloride	Chlorobromomethane	Chloroethane	Chloromethane (Methyl chloride)	cis-1,3-Dichloropropene	Cymene (p-Isopropyltoluene)	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane (CFC-12)	Hexachlorobutadiene	Isopropyl benzene	Methylene chloride	N-Butylbenzene	N-Propylbenzene	Styrene	tert-Butylbenzene	trans-1,3-Dichloropropene	Trichlorofluoromethane (CFC-11)	Trifluorotrichloroethane (Freon 113)
	Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
CPT-5	12/14/2011	<0.001	<0.003	<0.007	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.002	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
CPT-5	12/14/2011	<0.001	<0.003	<0.007	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.002	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
CPT-5	12/14/2011	<0.001	<0.003	<0.007	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.002	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
CPT-6	12/15/2011	<0.001	<0.003	<0.007	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.002	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
CPT-6	12/15/2011	<0.001	<0.003	<0.007	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.002	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
CPT-6	12/15/2011	<0.001	<0.003	<0.007	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.002	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
CPT-7	12/07/2011	<0.001	<0.003	<0.007	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.002	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.001	0.11	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
CPT-7	12/07/2011	<0.001	<0.003	<0.007	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.002	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
CPT-7	12/07/2011	<0.001	<0.003	<0.007	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.002	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
CPT-8	12/09/2011	<0.001	<0.003	<0.007	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.002	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.001	0.006	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
CPT-8	12/09/2011	<0.001	<0.003	<0.007	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.002	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.001	0.010	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
CPT-8	12/09/2011	<0.001	<0.003	0.007	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.002	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002

TABLE 2

SOIL ANALYTICAL DATA
CHEVRON SERVICE STATION 96817
1705 CONTRA COSTA BOULEVARD
PLEASANT HILL, CALIFORNIA

		VOCS																				VOCS						
Location	Date	4-Chlorotoluene	4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	Acetone	Bromobenzene	Bromodichloromethane	Bromoform	Bromomethane (Methyl bromide)	Carbon disulfide	Carbon tetrachloride	Chlorobromomethane	Chloroethane	Chloromethane (Methyl chloride)	cis-1,3-Dichloropropene	Cymene (p-Isopropyltoluene)	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane (CFC-12)	Hexachlorobutadiene	Isopropyl benzene	Methylene chloride	N-Butylbenzene	N-Propylbenzene	Styrene	tert-Butylbenzene	trans-1,3-Dichloropropene	Trichlorofluoromethane (CFC-11)	Trifluorotrichloroethane (Freon 113)
	Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
CPT-9	12/12/2011	<0.005	<0.01	<0.020	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01
CPT-9	12/12/2011	<0.005	<0.01	<0.020	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01
CPT-9	12/12/2011	<0.005	<0.010	0.020	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
CPT-10	12/12/2011	<0.005	<0.01	0.030	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01
CPT-10	12/12/2011	<0.005	<0.010	<0.020	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
CPT-10	12/12/2011	<0.005	<0.01	<0.020	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01
CPT-11	12/16/2011	<0.001	<0.003	<0.007	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.002	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
CPT-11	12/16/2011	<0.001	<0.003	<0.007	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.002	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
CPT-11	12/16/2011	<0.001	<0.003	<0.007	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.002	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.001	0.003	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
CPT-12	12/20/2011	<0.0009	<0.003	<0.007	<0.0009	<0.0009	<0.0009	<0.002	<0.0009	<0.0009	<0.0009	<0.002	<0.002	<0.0009	<0.0009	<0.0009	<0.0009	<0.002	<0.002	<0.0009	<0.002	<0.0009	<0.0009	<0.0009	<0.0009	<0.0009	<0.002	<0.002
CPT-12	12/20/2011	<0.001	<0.003	<0.007	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.002	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
CPT-12	12/20/2011	<0.001	<0.003	<0.007	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.002	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.001	0.004	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002

TABLE 2

SOIL ANALYTICAL DATA
CHEVRON SERVICE STATION 96817
1705 CONTRA COSTA BOULEVARD
PLEASANT HILL, CALIFORNIA

		VOCS																				VOCS						
Location	Date	4-Chlorotoluene	4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	Acetone	Bromobenzene	Bromodichloromethane	Bromoform	Bromomethane (Methyl bromide)	Carbon disulfide	Carbon tetrachloride	Chlorobromomethane	Chloroethane	Chloromethane (Methyl chloride)	cis-1,3-Dichloropropene	Cymene (p-Isopropyltoluene)	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane (CFC-12)	Hexachlorobutadiene	Isopropyl benzene	Methylene chloride	N-Butylbenzene	N-Propylbenzene	Styrene	tert-Butylbenzene	trans-1,3-Dichloropropene	Trichlorofluoromethane (CFC-11)	Trifluorotrichloroethane (Freon 113)
	Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
CPT-13	**12/20/2011**	**<0.001**	**<0.003**	**<0.007**	**<0.001**	**<0.001**	**<0.001**	**<0.002**	**<0.001**	**<0.001**	**<0.001**	**<0.002**	**<0.002**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.002**	**<0.002**	**<0.001**	**<0.002**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.002**	**<0.002**
CPT-13	**12/20/2011**	**<0.001**	**<0.003**	**<0.007**	**<0.001**	**<0.001**	**<0.001**	**<0.002**	**<0.001**	**<0.001**	**<0.001**	**<0.002**	**<0.002**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.002**	**<0.002**	**<0.001**	**0.005**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.002**	**<0.002**
CPT-13	**12/20/2011**	**<0.0009**	**<0.003**	**<0.006**	**<0.0009**	**<0.0009**	**<0.0009**	**<0.002**	**<0.0009**	**<0.0009**	**<0.0009**	**<0.002**	**<0.002**	**<0.0009**	**<0.0009**	**<0.0009**	**<0.0009**	**<0.002**	**<0.002**	**<0.0009**	**0.006**	**<0.0009**	**<0.0009**	**<0.0009**	**<0.0009**	**<0.0009**	**<0.002**	**<0.002**
CPT-14	**12/19/2011**	**<0.048**	**<0.14**	**<0.34**	**<0.048**	**<0.048**	**<0.048**	**<0.096**	**<0.048**	**<0.048**	**<0.048**	**<0.096**	**<0.096**	**<0.048**	**<0.048**	**<0.048**	**<0.048**	**<0.096**	**<0.096**	**<0.048**	**<0.096**	**<0.048**	**<0.048**	**<0.048**	**<0.048**	**<0.048**	**<0.096**	**<0.096**
CPT-14	**12/19/2011**	**<0.001**	**<0.003**	**<0.007**	**<0.001**	**<0.001**	**<0.001**	**<0.002**	**<0.001**	**<0.001**	**<0.001**	**<0.002**	**<0.002**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.002**	**<0.002**	**<0.001**	**0.004**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.002**	**<0.002**
CPT-14	**12/19/2011**	**<0.047**	**<0.14**	**<0.33**	**<0.047**	**<0.047**	**<0.047**	**<0.094**	**<0.047**	**<0.047**	**<0.047**	**<0.094**	**<0.094**	**<0.047**	**<0.047**	**<0.047**	**<0.047**	**<0.094**	**<0.094**	**<0.047**	**<0.094**	**<0.047**	**<0.047**	**<0.047**	**<0.047**	**<0.047**	**<0.094**	**<0.094**
CPT-15	**12/16/2011**	**<0.050**	**<0.15**	**<0.35**	**<0.050**	**<0.050**	**<0.050**	**<0.099**	**<0.050**	**<0.050**	**<0.050**	**<0.099**	**<0.099**	**<0.050**	**<0.050**	**<0.050**	**<0.050**	**<0.099**	**<0.099**	**0.13**	**<0.099**	**0.11**	**0.88**	**<0.050**	**0.24**	**<0.050**	**<0.099**	**<0.099**
CPT-15	**12/16/2011**	**<0.001**	**<0.003**	**0.012**	**<0.001**	**<0.001**	**<0.001**	**<0.002**	**<0.001**	**<0.001**	**<0.001**	**<0.002**	**<0.002**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.002**	**<0.002**	**<0.001**	**<0.002**	**<0.001**	**<0.001**	**<0.001**	**0.002**	**<0.001**	**<0.002**	**<0.002**
CPT-15	**12/16/2011**	**<0.001**	**<0.003**	**<0.007**	**<0.001**	**<0.001**	**<0.001**	**<0.002**	**<0.001**	**<0.001**	**<0.001**	**<0.002**	**<0.002**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.002**	**<0.002**	**<0.001**	**0.004**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.002**	**<0.002**
CPT-16	**12/19/2011**	**<0.047**	**<0.14**	**<0.33**	**<0.047**	**<0.047**	**<0.047**	**<0.095**	**<0.047**	**<0.047**	**<0.047**	**<0.095**	**<0.095**	**<0.047**	**<0.047**	**<0.047**	**<0.047**	**<0.095**	**<0.095**	**1.5**	**<0.095**	**2.9**	**7.1**	**<0.047**	**1.6**	**<0.047**	**<0.095**	**<0.095**
CPT-16	**12/19/2011**	**<0.0009**	**<0.003**	**<0.007**	**<0.0009**	**<0.0009**	**<0.0009**	**<0.002**	**<0.0009**	**<0.0009**	**<0.0009**	**<0.002**	**<0.002**	**<0.0009**	**<0.0009**	**<0.0009**	**<0.0009**	**<0.002**	**<0.002**	**<0.0009**	**<0.002**	**<0.0009**	**0.004**	**<0.0009**	**<0.0009**	**<0.0009**	**<0.002**	**<0.002**
CPT-16	**12/19/2011**	**<0.001**	**<0.003**	**<0.007**	**<0.001**	**<0.001**	**<0.001**	**<0.002**	**<0.001**	**<0.001**	**<0.001**	**<0.002**	**<0.002**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.002**	**<0.002**	**<0.001**	**<0.002**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.002**	**<0.002**

TABLE 2

SOIL ANALYTICAL DATA
CHEVRON SERVICE STATION 96817
1705 CONTRA COSTA BOULEVARD
PLEASANT HILL, CALIFORNIA

		VOCS																				VOCS						
Location	Date	4-Chlorotoluene	4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	Acetone	Bromobenzene	Bromodichloromethane	Bromoform	Bromomethane (Methyl bromide)	Carbon disulfide	Carbon tetrachloride	Chlorobromomethane	Chloroethane	Chloromethane (Methyl chloride)	cis-1,3-Dichloropropene	Cymene (p-Isopropyltoluene)	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane (CFC-12)	Hexachlorobutadiene	Isopropyl benzene	Methylene chloride	N-Butylbenzene	N-Propylbenzene	Styrene	tert-Butylbenzene	trans-1,3-Dichloropropene	Trichlorofluoromethane (CFC-11)	Trifluorotrichloroethane (Freon 113)
	Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
CPT-17	**12/21/2011**	<0.001	<0.003	<0.007	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.002	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
CPT-17	**12/21/2011**	<0.001	<0.003	<0.007	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.002	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
CPT-17	**12/21/2011**	<0.001	<0.003	<0.007	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.002	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
CPT-18	**12/21/2011**	<0.001	<0.003	<0.007	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.002	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
CPT-18	**12/21/2011**	<0.001	<0.003	<0.007	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.002	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
CPT-18	**12/21/2011**	<0.001	<0.003	<0.007	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.002	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
CPT-19	**12/01/2011[1]**	<0.001	<0.003	<0.007	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.002	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
CPT-19	**12/01/2011[1]**	<0.001	<0.003	<0.007	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.002	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
CPT-19	**12/01/2011[1]**	<0.001	<0.003	<0.007	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.002	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
CPT-20	**12/15/2011**	<0.001	<0.003	<0.007	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.002	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
CPT-20	**12/15/2011**	<0.001	<0.003	<0.007	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.002	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
CPT-20	**12/15/2011**	<0.001	<0.003	<0.007	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.002	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002

TABLE 2

SOIL ANALYTICAL DATA
CHEVRON SERVICE STATION 96817
1705 CONTRA COSTA BOULEVARD
PLEASANT HILL, CALIFORNIA

		VOCS																				VOCS						
Location	Date	*4-Chlorotoluene*	*4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)*	*Acetone*	*Bromobenzene*	*Bromodichloromethane*	*Bromoform*	*Bromomethane (Methyl bromide)*	*Carbon disulfide*	*Carbon tetrachloride*	*Chlorobromomethane*	*Chloroethane*	*Chloromethane (Methyl chloride)*	*cis-1,3-Dichloropropene*	*Cymene (p-Isopropyltoluene)*	*Dibromochloromethane*	*Dibromomethane*	*Dichlorodifluoromethane (CFC-12)*	*Hexachlorobutadiene*	*Isopropyl benzene*	*Methylene chloride*	*N-Butylbenzene*	*N-Propylbenzene*	*Styrene*	*tert-Butylbenzene*	*trans-1,3-Dichloropropene*	*Trichlorofluoromethane (CFC-11)*	*Trifluorotrichloroethane (Freon 113)*
	Units	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*
CPT-20	**12/15/2011**	**<0.001**	**<0.003**	**<0.007**	**<0.001**	**<0.001**	**<0.001**	**<0.002**	**<0.001**	**<0.001**	**<0.001**	**<0.002**	**<0.002**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.002**	**<0.002**	**<0.001**	**0.003**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.002**	**<0.002**
VP-1	**12/07/2011**	**<0.001**	**<0.003**	**0.015**	**<0.001**	**<0.001**	**<0.001**	**<0.002**	**<0.001**	**<0.001**	**<0.001**	**<0.002**	**<0.002**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.002**	**<0.002**	**<0.001**	**<0.002**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.002**	**<0.002**
VP-1	**12/07/2011**	**<0.001**	**<0.003**	**<0.007**	**<0.001**	**<0.001**	**<0.001**	**<0.002**	**<0.001**	**<0.001**	**<0.001**	**<0.002**	**<0.002**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.002**	**<0.002**	**<0.001**	**<0.002**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.002**	**<0.002**
VP-2	**12/06/2011**	**<0.001**	**<0.003**	**<0.007**	**<0.001**	**<0.001**	**<0.001**	**<0.002**	**<0.001**	**<0.001**	**<0.001**	**<0.002**	**<0.002**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.002**	**<0.002**	**<0.001**	**<0.002**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.002**	**<0.002**
VP-2	**12/06/2011**	**<0.001**	**<0.003**	**0.015**	**<0.001**	**<0.001**	**<0.001**	**<0.002**	**<0.001**	**<0.001**	**<0.001**	**<0.002**	**<0.002**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.002**	**<0.002**	**<0.001**	**<0.002**	**<0.001**	**<0.001**	**<0.001**	**0.005**	**<0.001**	**<0.002**	**<0.002**
VP-3	**12/06/2011**	**<0.001**	**<0.003**	**<0.007**	**<0.001**	**<0.001**	**<0.001**	**<0.002**	**<0.001**	**<0.001**	**<0.001**	**<0.002**	**<0.002**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.002**	**<0.002**	**<0.001**	**<0.002**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.002**	**<0.002**
VP-3	**12/06/2011**	**<0.0009**	**<0.003**	**<0.007**	**<0.0009**	**<0.0009**	**<0.0009**	**<0.002**	**<0.0009**	**<0.0009**	**<0.0009**	**<0.002**	**<0.002**	**<0.0009**	**<0.0009**	**<0.0009**	**<0.0009**	**<0.002**	**<0.002**	**<0.0009**	**<0.002**	**<0.0009**	**<0.0009**	**<0.0009**	**<0.0009**	**<0.0009**	**<0.002**	**<0.002**

TABLE 2

SOIL ANALYTICAL DATA
CHEVRON SERVICE STATION 96817
1705 CONTRA COSTA BOULEVARD,
PLEASANT HILL, CALIFORNIA

Abbreviations and Notes:

ft = Feet
mg/kg = Milligrams per Kilogram
TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics
B = Benzene
T = Toluene
E = Ethylbenzene
X = Xylene
MTBE = Methyl tert butyl ether
TBA = Tert-Butyl alcohol
DIPE = Diisopropyl ether
ETBE = Tert-Butyl ethyl ether
TAME = Tert-Amyl methyl ether
EDB = 1,2-Dibromoethane (Ethylene dibromide)
1,1-DCE = 1,1-Dichloroethene
1,2-DCA = 1,2-Dichloroethane
CHB = Chlorobenzene
CF = Chloroform
C-1,2-DCE
PCE = Tetrachloroethene
T-1,2-DCE
TCE = Trichloroethene
VC = Vinyl Chloride
-- = Not available / not applicable
<x = Not detected above laboratory method detection limit
1 Composite sample.

TABLE 3

GRAB-GROUNDWATER SAMPLING DATA
CHEVRON SERVICE STATION 96817
1705 CONTRA COSTA BOULEVARD
PLEASANT HILL, CALIFORNIA

			HYDROCARBONS	*PRIMARY VOCS*											*ADDITIONAL VOCS*									*PAHS*	*GENERAL CHEMISTRY*
Location	Date	Depth	*TPH-GRO*	*B*	*T*	*E*	*m&p-Xylenes*	*o-Xylene*	*MTBE by SW8260*	*TBA*	*DIPE*	*ETBE*	*TAME*	*EDB*	*1,1-DCE*	*1,2-DCA*	*CHB*	*CF*	*C-1,2-DCE*	*PCE*	*T-1,2-DCE*	*TCE*	*VC*	*Naphthalene*	*Ethanol*
	Units	ft	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
CPT-1	**12/12/2011**	**15**	**380**	**<4**	**<4**	**<4**	**<4**	**<4**	**3**	**<80**	**<4**	**<4**	**<4**	**<4**	**1**	**<4**	**<5**	**<5**	**68**	**690**	**5**	**240**	**<5**	**<5**	**<250**
CPT-1_FD	**12/12/2011**	**15**	**540**	**<4**	**<4**	**<4**	**<4**	**<4**	**3**	**<80**	**<4**	**<4**	**<4**	**<4**	**2**	**<4**	**<5**	**<5**	**75**	**680**	**6**	**250**	**<5**	**<5**	**<250**
CPT-2	**12/14/2011**	**18**	**620**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**18**	**<5**	**1**	**<0.5**	**1**	**<0.5**	**<0.8**	**<0.5**	**<0.8**	**<0.8**	**300**	**470**	**18**	**260**	**<1**	**<1**	**<50**
CPT-2	**12/14/2011**	**30**	**240**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**4**	**<5**	**2**	**<0.5**	**<0.5**	**<0.5**	**2**	**<0.5**	**<0.8**	**<0.8**	**73**	**170**	**3**	**160**	**<1**	**<1**	**<50**
CPT-3	**12/13/2011**	**15**	**96**	**<4**	**<4**	**<4**	**<4**	**<4**	**38**	**<80**	**<4**	**<4**	**2**	**<4**	**<5**	**<4**	**<5**	**<5**	**23**	**73**	**4**	**76**	**<5**	**<5**	**<250**
CPT-3	**12/13/2011**	**25**	**560**	**<4**	**<4**	**<4**	**<4**	**<4**	**46**	**11**	**1**	**<4**	**2**	**<4**	**1**	**<4**	**<5**	**<5**	**680**	**<5**	**14**	**2**	**<5**	**<5**	**<250**
CPT-3_FD	**12/13/2011**	**25**	**560**	**<4**	**<4**	**<4**	**<4**	**<4**	**53**	**10**	**1**	**<4**	**2**	**<4**	**1**	**<4**	**<5**	**<5**	**680**	**<5**	**15**	**3**	**<5**	**<5**	**<250**
CPT-4	**12/13/2011**	**15**	**<100**	**<4**	**<4**	**<4**	**<4**	**<4**	**20**	**<80**	**<4**	**<4**	**0.6**	**<4**	**<5**	**<4**	**<5**	**<5**	**11**	**10**	**1**	**22**	**<5**	**<5**	**<250**
CPT-4	**12/13/2011**	**30**	**99**	**<4**	**<4**	**<4**	**<4**	**<4**	**25**	**<80**	**<4**	**<4**	**1**	**<4**	**<5**	**<4**	**<5**	**<5**	**140**	**<5**	**5**	**2**	**<5**	**<5**	**<250**
CPT-4_FD	**12/13/2011**	**30**	**100**	**<4**	**<4**	**<4**	**<4**	**<4**	**24**	**<80**	**<4**	**<4**	**1**	**<4**	**<5**	**<4**	**<5**	**<5**	**130**	**<5**	**5**	**1**	**<5**	**<5**	**<250**
CPT-5	**12/14/2011**	**20**	**110**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**3**	**<5**	**<0.5**	**<0.5**	**0.7**	**<0.5**	**<0.8**	**<0.5**	**<0.8**	**<0.8**	**73**	**56**	**12**	**73**	**<1**	**<1**	**<50**
CPT-5	**12/14/2011**	**30**	**59**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**2**	**<5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.8**	**0.8**	**<0.8**	**<0.8**	**30**	**23**	**5**	**36**	**<1**	**<1**	**<50**
CPT-6	**12/15/2011**	**16**	**320**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**8**	**<5**	**0.5**	**<0.5**	**0.7**	**<0.5**	**<0.8**	**<0.5**	**<0.8**	**<0.8**	**120**	**350**	**19**	**170**	**<1**	**<1**	**<50**
CPT-6	**12/15/2011**	**30**	**310**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**12**	**8**	**2**	**<0.5**	**0.9**	**<0.5**	**<0.8**	**<0.5**	**<0.8**	**<0.8**	**57**	**250**	**9**	**110**	**<1**	**<1**	**<50**
CPT-7	**12/07/2011**	**18**	**380**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.8**	**<0.5**	**<0.8**	**<0.8**	**14**	**930**	**<0.8**	**45**	**<1**	**<1**	**<50**
CPT-7_FD	**12/07/2011**	**18**	**440**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.8**	**<0.5**	**<0.8**	**<0.8**	**14**	**750**	**<0.8**	**46**	**<1**	**<1**	**<50**
CPT-7	**12/07/2011**	**38**	**62**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.8**	**<0.5**	**<0.8**	**<0.8**	**17**	**60**	**<0.8**	**22**	**<1**	**<1**	**<50**

TABLE 3

GRAB-GROUNDWATER SAMPLING DATA
CHEVRON SERVICE STATION 96817
1705 CONTRA COSTA BOULEVARD
PLEASANT HILL, CALIFORNIA

			HYDROCARBONS	*PRIMARY VOCS*											*ADDITIONAL VOCS*									*PAHS*	*GENERAL CHEMISTRY*
Location	Date	Depth	*TPH-GRO*	*B*	*T*	*E*	*m&p-Xylenes*	*o-Xylene*	*MTBE by SW8260*	*TBA*	*DIPE*	*ETBE*	*TAME*	*EDB*	*1,1-DCE*	*1,2-DCA*	*CHB*	*CF*	*C-1,2-DCE*	*PCE*	*T-1,2-DCE*	*TCE*	*VC*	*Naphthalene*	*Ethanol*
	Units	ft	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
CPT-8	**12/09/2011**	**30**	**410**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.8**	**<0.5**	**<0.8**	**<0.8**	**9**	**630**	**1**	**150**	**<1**	**<1**	**<50**
CPT-8	**12/09/2011**	**45**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.8**	**<0.5**	**<0.8**	**<0.8**	**2**	**22**	**<0.8**	**4**	**<1**	**<1**	**<50**
CPT-10	**12/13/2011**	**36**	**<100**	**<4**	**<4**	**<4**	**<4**	**<4**	**50**	**<80**	**<4**	**<4**	**<4**	**<4**	**<5**	**<4**	**<5**	**<5**	**1**	**<5**	**<5**	**3**	**<5**	**<5**	**<250**
CPT-12	**12/20/2011**	**30**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.8**	**2**	**<0.8**	**<0.8**	**<0.8**	**0.9**	**<0.8**	**1**	**<1**	**<1**	**<50**
CPT-13	**12/20/2011**	**30**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.8**	**3**	**<0.8**	**<0.8**	**3**	**7**	**<0.8**	**6**	**<1**	**<1**	**<50**
CPT-14	**12/19/2011**	**30**	**320**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**1**	**<5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.8**	**2**	**<0.8**	**<0.8**	**<0.8**	**630**	**<0.8**	**8**	**<1**	**<1**	**<50**
CPT-14_FD	**12/19/2011**	**30**	**280**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**1**	**<5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.8**	**2**	**<0.8**	**<0.8**	**<0.8**	**630**	**<0.8**	**7**	**<1**	**<1**	**<50**
CPT-15	**12/16/2011**	**20**	**73**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**1**	**<5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.8**	**<0.5**	**<0.8**	**<0.8**	**19**	**22**	**4**	**54**	**<1**	**<1**	**<50**
CPT-15	**12/16/2011**	**30**	**200**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<5**	**3**	**<0.5**	**<0.5**	**<0.5**	**<0.8**	**2**	**<0.8**	**<0.8**	**20**	**350**	**0.9**	**50**	**<1**	**<1**	**<50**
CPT-16	**12/19/2011**	**15**	**150**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.8**	**<0.5**	**<0.8**	**<0.8**	**10**	**290**	**0.8**	**54**	**<1**	**<1**	**<50**
CPT-16	**12/19/2011**	**30**	**140**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.8**	**0.6**	**<0.8**	**<0.8**	**5**	**280**	**<0.8**	**40**	**<1**	**<1**	**<50**
CPT-18	**12/21/2011**	**20**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.8**	**<0.5**	**<0.8**	**<0.8**	**3**	**4**	**<0.8**	**3**	**<1**	**<1**	**<50**
CPT-19	**12/01/2011**	**16**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**24**	**<5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.8**	**<0.5**	**<0.8**	**<0.8**	**<0.8**	**<0.8**	**<0.8**	**<1**	**<1**	**<1**	**<50**
CPT-19	**12/01/2011**	**35**	**67**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.8**	**<0.5**	**<0.8**	**<0.8**	**<0.8**	**<0.8**	**<0.8**	**<1**	**<1**	**<1**	**<50**

TABLE 3

GRAB-GROUNDWATER SAMPLING DATA
CHEVRON SERVICE STATION 96817
1705 CONTRA COSTA BOULEVARD
PLEASANT HILL, CALIFORNIA

		VOCS																								VOCS																								
Location	Date	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-chloropropane (DBCP)	1,2-Dichlorobenzene	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane	2-Butanone (Methyl ethyl ketone) (MEK)	2-Chloroethyl vinyl ether	2-Chlorotoluene	2-Hexanone	2-Phenylbutane (sec-Butylbenzene)	4-Chlorotoluene	4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	Acetone	Bromobenzene	Bromodichloromethane	Bromoform	Bromomethane (Methyl bromide)	Carbon disulfide	Carbon tetrachloride	Chlorobromomethane	Chloroethane	Chloromethane (Methyl chloride)	cis-1,3-Dichloropropene	Cymene (p-Isopropyltoluene)	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane (CFC-12)	Hexachlorobutadiene	Isopropyl benzene	Methylene chloride	N-Butylbenzene	N-Propylbenzene	Styrene	tert-Butylbenzene	trans-1,3-Dichloropropene	Trichlorofluoromethane (CFC-11)	Trifluorotrichloroethane (Freon 113)
	Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
CPT-1	**12/12/2011**	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<10	<20	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<10
CPT-1_FD	**12/12/2011**	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<10	<20	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<10
CPT-2	**12/14/2011**	<1	<0.8	<1	<0.8	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<3	<2	<1	<3	<1	<1	<3	<6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<2	<1	<2	<1	<1	<1	<1	<1	<2	<2
CPT-2	**12/14/2011**	<1	<0.8	<1	<0.8	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<3	<2	<1	<3	<1	<1	<3	<6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<2	<1	<2	<1	<1	<1	<1	<1	<2	<2
CPT-3	**12/13/2011**	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<10	<20	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<10
CPT-3	**12/13/2011**	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<10	<20	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<10
CPT-3_FD	**12/13/2011**	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<10	<20	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<10
CPT-4	**12/13/2011**	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<10	<20	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<10
CPT-4	**12/13/2011**	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<10	<20	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<10
CPT-4_FD	**12/13/2011**	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<10	<20	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<10
CPT-5	**12/14/2011**	<1	<0.8	<1	<0.8	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<3	<2	<1	<3	<1	<1	<3	<6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<2	<1	<2	<1	<1	<1	<1	<1	<2	<2
CPT-5	**12/14/2011**	<1	<0.8	<1	<0.8	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<3	<2	<1	<3	<1	<1	<3	<6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<2	<1	<2	<1	<1	<1	<1	<1	<2	<2
CPT-6	**12/15/2011**	<1	<0.8	<1	<0.8	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<3	<2	<1	<3	<1	<1	<3	<6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<2	<1	<2	<1	<1	<1	<1	<1	<2	<2
CPT-6	**12/15/2011**	<1	<0.8	<1	<0.8	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<3	<2	<1	<3	<1	<1	<3	<6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<2	<1	<2	<1	<1	<1	<1	<1	<2	<2
CPT-7	**12/07/2011**	<1	<0.8	<1	<0.8	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<3	<2	<1	<3	<1	<1	<3	<6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<2	<1	<2	<1	<1	<1	<1	<1	<2	<2
CPT-7_FD	**12/07/2011**	<1	<0.8	<1	<0.8	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<3	<2	<1	<3	<1	<1	<3	<6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<2	<1	<2	<1	<1	<1	<1	<1	<2	<2
CPT-7	**12/07/2011**	<1	<0.8	<1	<0.8	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<3	<2	<1	<3	<1	<1	<3	<6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<2	<1	<2	<1	<1	<1	<1	<1	<2	<2

TABLE 3

GRAB-GROUNDWATER SAMPLING DATA
CHEVRON SERVICE STATION 96817
1705 CONTRA COSTA BOULEVARD
PLEASANT HILL, CALIFORNIA

		VOCS																																																	
Location	Date	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-chloropropane (DBCP)	1,2-Dichlorobenzene	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane	2-Butanone (Methyl ethyl ketone) (MEK)	2-Chloroethyl vinyl ether	2-Chlorotoluene	2-Hexanone	2-Phenylbutane (sec-Butylbenzene)	4-Chlorotoluene	4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	Acetone	Bromobenzene	Bromodichloromethane	Bromoform	Bromomethane (Methyl bromide)	Carbon disulfide	Carbon tetrachloride	Chlorobromomethane	Chloroethane	Chloromethane (Methyl chloride)	cis-1,3-Dichloropropene	Cymene (p-Isopropyltoluene)	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane (CFC-12)	Hexachlorobutadiene	Isopropyl benzene	Methylene chloride	N-Butylbenzene	N-Propylbenzene	Styrene	tert-Butylbenzene	trans-1,3-Dichloropropene	Trichlorofluoromethane (CFC-11)	Trifluorotrichloroethane (Freon 113)
	Units	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L
CPT-8	12/09/2011	<1	<0.8	<1	<0.8	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<3	<2	<1	<3	<1	<1	<3	<6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<2	<1	<2	<1	<1	<1	<1	<1	<2	<2
CPT-8	12/09/2011	<1	<0.8	<1	<0.8	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	3	<2	<1	<3	<1	<1	<3	21	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<2	<1	<2	<1	<1	<1	<1	<1	<2	<2
CPT-10	12/13/2011	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10	<5	<5	<10	<20	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<10
CPT-12	12/20/2011	<1	<0.8	<1	<0.8	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<3	<2	<1	<3	<1	<1	<3	<6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<2	<1	<2	<1	<1	<1	<1	<1	<2	<2
CPT-13	12/20/2011	<1	<0.8	<1	<0.8	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<3	<2	<1	<3	<1	<1	<3	<6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<2	<1	<2	<1	<1	<1	<1	<1	<2	<2
CPT-14	12/19/2011	<1	<0.8	<1	<0.8	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<3	<2	<1	<3	<1	<1	<3	<6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<2	<1	<2	<1	<1	<1	<1	<1	<2	<2
CPT-14_FD	12/19/2011	<1	<0.8	<1	<0.8	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<3	<2	<1	<3	<1	<1	<3	<6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<2	<1	<2	<1	<1	<1	<1	<1	<2	<2
CPT-15	12/16/2011	<1	<0.8	<1	<0.8	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<3	<2	<1	<3	<1	<1	<3	<6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<2	<1	<2	<1	<1	<1	<1	<1	<2	<2
CPT-15	12/16/2011	<1	<0.8	<1	<0.8	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<3	<2	<1	<3	<1	<1	<3	<6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<2	<1	<2	<1	<1	<1	<1	<1	<2	<2
CPT-16	12/19/2011	<1	<0.8	<1	<0.8	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<3	<2	<1	<3	<1	<1	<3	<6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<2	<1	<2	<1	<1	<1	<1	<1	<2	<2
CPT-16	12/19/2011	<1	<0.8	<1	<0.8	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<3	<2	<1	<3	<1	<1	<3	<6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<2	<1	<2	<1	<1	<1	<1	<1	<2	<2
CPT-18	12/21/2011	<1	<0.8	<1	<0.8	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<3	<2	<1	<3	<1	<1	<3	<6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<2	<1	<2	<1	<1	<1	<1	<1	<2	<2
CPT-19	12/01/2011	<1	<0.8	<1	<0.8	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<3	<2	<1	<3	<1	<1	<3	<6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<2	<1	<2	<1	<1	<1	<1	<1	<2	<2
CPT-19	12/01/2011	<1	<0.8	<1	<0.8	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<3	<2	<1	<3	<1	<1	<3	<6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<2	<1	<2	<1	<1	<1	<1	<1	<2	<2

TABLE 3

SOIL ANALYTICAL DATA
CHEVRON SERVICE STATION 96817
1705 CONTRA COSTA BOULEVARD,
PLEASANT HILL, CALIFORNIA

Abbreviations and Notes:

FD = Duplicate
ft = Feet
µg/L = Micrograms per Liter
TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics
B = Benzene
T = Toluene
E = Ethylbenzene
MTBE = Methyl tert butyl ether
TBA = Tert-Butyl alcohol
DIPE = Diisopropyl ether
ETBE = Tert-Butyl ethyl ether
TAME = Tert-Amyl methyl ether
EDB = 1,2-Dibromoethane (Ethylene dibromide)
1,1-DCE = 1,1-Dichloroethene
1,2-DCA = 1,2-Dichloroethane
CHB = Chlorobenzene
CF = Chloroform (Trichloromethane)
C-1,2-DCE = cis-1,2-Dichloroethene
PCE = Tetrachloroethene
T-1,2-DCE = trans-1,2-Dichloroethene
TCE = Trichloroethene
VC = Vinyl chloride
-- = Not available / not applicable
<x = Not detected above laboratory method detection limit

TABLE 4

SOIL VAPOR ANALYTICAL DATA
CHEVRON SERVICE STATION 96817
1705 CONTRA COSTA BOULEVARD
PLEASANT HILL, CALIFORNIA

		HYDROCARBONS	*PRIMARY VOCS*						*VOCS*													
Location	Date	*TPH-GRO*	*B*	*T*	*E*	*m&p-Xylenes*	*o-Xylene*	*MTBE*	*EDB*	*1,1-DCE*	*1,2-DCA*	*CHB*	*CF*	*C-1,2-DCE*	*PCE*	*T-1,2-DCE*	*TCE*	*VC*	*Naphthalene*	*Ethanol*	*1,1,1-Trichloroethane*	*1,1,2,2-Tetrachloroethane*
	Units	*ug/m3*	*ug/m3*	*ug/m3*	*ug/m3*	*ug/m3*	*ug/m3*	*ug/m3*	*ug/m3*	*ug/m3*	*ug/m3*	*ug/m3*	*ug/m3*	*ug/m3*	*ug/m3*	*ug/m3*	*ug/m3*	*ug/m3*	*ug/m3*	*ug/m3*	*ug/m3*	*ug/m3*
VP-1	**12/13/2011**	**<420,000**	**<6,500**	**<7,700**	**<8,800**	**<8,800**	**<8,800**	**<7,300**	**<16,000**	**<8,100**	**<8,200**	**<9,400**	**<9,900**	**410,000**	**2,500,000**	**19,000**	**2,100,000**	**<5,200**	**<43,000**	**<15,000**	**<11,000**	**<14,000**
VP-1-DUP	**12/13/2011**	**<320,000**	**<5,000**	**<5,800**	**<6,700**	**<6,700**	**<6,700**	**<5,600**	**<12,000**	**<6,100**	**<6,300**	**<7,100**	**<7,600**	**350,000**	**2,200,000**	**10,000**	**1,900,000**	**<4,000**	**<32,000**	**<12,000**	**<8,400**	**<11,000**
VP-2_5	**12/13/2011**	**23,000**	**<2.7**	**7.0**	**<3.7**	**6.7**	**14**	**<3.1**	**<6.6**	**<3.4**	**<3.5**	**7.2**	**22**	**<3.4**	**<5.8**	**<3.4**	**<4.6**	**<2.2**	**<18**	**<6.5**	**<4.7**	**<5.9**
VP-2_7.5	**12/13/2011**	**20,000**	**4.9**	**33**	**4.0**	**5.9**	**24**	**<2.9**	**<6.2**	**<3.2**	**<3.2**	**25**	**31**	**<3.2**	**21**	**<3.2**	**16**	**<2.0**	**<17**	**<6.1**	**<4.4**	**<5.5**
VP-3_5	**12/13/2011**	**<1,200**	**<19**	**<23**	**<26**	**<26**	**<26**	**<22**	**<47**	**<24**	**<25**	**<28**	**<30**	**<24**	**14,000**	**<24**	**850**	**<16**	**<130**	**<46**	**<33**	**<42**
VP-3_7.5	**12/13/2011**	**<4,200**	**<66**	**<78**	**<89**	**<89**	**<89**	**<74**	**<160**	**<82**	**<83**	**<95**	**<100**	**<82**	**53,000**	**<82**	**2,200**	**<53**	**<430**	**<160**	**<110**	**<140**

TABLE 4

SOIL VAPOR ANALYTICAL DATA
CHEVRON SERVICE STATION 96817
1705 CONTRA COSTA BOULEVARD
PLEASANT HILL, CALIFORNIA

		VOCS																							
Location	Date	*1,1,2-Trichloroethane*	*1,1-Dichloroethane*	*1,2,4-Trichlorobenzene*	*1,2,4-Trimethylbenzene*	*1,2-Dichlorobenzene*	*1,2-Dichloropropane*	*1,2-Dichlorotetrafluoroethane (CFC 114)*	*1,3,5-Trimethylbenzene*	*1,3-Butadiene*	*1,3-Dichlorobenzene*	*1,4-Dichlorobenzene*	*1,4-Dioxane*	*2,2,4-Trimethylpentane*	*2-Butanone (Methyl ethyl ketone) (MEK)*	*2-Hexanone*	*4-Ethyl toluene*	*4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)*	*Acetone*	*Allyl chloride*	*Benzyl chloride*	*Bromodichloromethane*	*Bromoform*	*Bromomethane (Methyl bromide)*	*Carbon dioxide*
	Units	*ug/m3*	*ug/m3*	*ug/m3*	*ug/m3*	*ug/m3*	*ug/m3*	*ug/m3*	*ug/m3*	*ug/m3*	*ug/m3*	*ug/m3*	*ug/m3*	*ug/m3*	*ug/m3*	*ug/m3*	*ug/m3*	*ug/m3*	*ug/m3*	*ug/m3*	*ug/m3*	*ug/m3*	*ug/m3*	*ug/m3*	*%*
VP-1	**12/13/2011**	**<11,000**	**<8,200**	**<60,000**	**<10,000**	**<12,000**	**<9,400**	**<14,000**	**<10,000**	**<4,500**	**<12,000**	**<12,000**	**<29,000**	**<9,500**	**<24,000**	**<33,000**	**<10,000**	**<8,300**	**<19,000**	**<25,000**	**<10,000**	**<14,000**	**<21,000**	**<7,900**	**7.4**
VP-1-DUP	**12/13/2011**	**<8,400**	**<6,300**	**<46,000**	**<7,600**	**<9,300**	**<7,200**	**<11,000**	**<7,600**	**<3,400**	**<9,300**	**<9,300**	**<22,000**	**<7,200**	**<18,000**	**<25,000**	**<7,600**	**<6,300**	**<15,000**	**<19,000**	**<8,000**	**<10,000**	**<16,000**	**<6,000**	**7.6**
VP-2_5	**12/13/2011**	**<4.7**	**<3.5**	**<26**	**37**	**<5.2**	**<4.0**	**<6.0**	**21**	**<1.9**	**<5.2**	**<5.2**	**<12**	**610**	**<10**	**<14**	**21**	**<3.5**	**<8.2**	**<11**	**<4.4**	**<5.8**	**<8.9**	**<3.3**	**2.8**
VP-2_7.5	**12/13/2011**	**<4.4**	**<3.2**	**<24**	**16**	**<4.8**	**<3.7**	**<5.6**	**<4.0**	**<1.8**	**<4.8**	**5.3**	**<12**	**1,000**	**21**	**<13**	**5.0**	**<3.3**	**<7.6**	**<10**	**<4.2**	**<5.4**	**<8.3**	**<3.1**	**5.8**
VP-3_5	**12/13/2011**	**<33**	**<25**	**<180**	**<30**	**<37**	**<28**	**<43**	**<30**	**<13**	**<37**	**<37**	**<88**	**<28**	**<72**	**<100**	**<30**	**<25**	**<58**	**<76**	**<32**	**<41**	**<63**	**<24**	**0.79**
VP-3_7.5	**12/13/2011**	**<110**	**<83**	**<610**	**<100**	**<120**	**<95**	**<140**	**<100**	**<46**	**<120**	**<120**	**<300**	**<96**	**<240**	**<340**	**<100**	**<84**	**<200**	**<260**	**<110**	**<140**	**<210**	**<80**	**4.6**

TABLE 4

SOIL VAPOR ANALYTICAL DATA
CHEVRON SERVICE STATION 96817
1705 CONTRA COSTA BOULEVARD
PLEASANT HILL, CALIFORNIA

		VOCS															*VOCS*								
Location	Date	*Carbon disulfide*	*Carbon tetrachloride*	*Chloroethane*	*Chloromethane (Methyl chloride)*	*cis-1,3-Dichloropropene*	*Cyclohexane*	*Dibromochloromethane*	*Dichlorodifluoromethane (CFC-12)*	*Helium*	*Hexachlorobutadiene*	*Hexane*	*Isopropyl alcohol*	*Isopropyl benzene*	*Methane*	*Methylene chloride*	*N-Heptane*	*Nitrogen*	*N-Propylbenzene*	*Oxygen*	*Styrene*	*Tetrahydrofuran*	*trans-1,3-Dichloropropene*	*Trichlorofluoromethane (CFC-11)*	*Trifluorotrichloroethane (Freon 113)*
	Units	*ug/m3*	*ug/m3*	*ug/m3*	*ug/m3*	*ug/m3*	*ug/m3*	*ug/m3*	*ug/m3*	*%*	*ug/m3*	*ug/m3*	*ug/m3*	*ug/m3*	*%*	*ug/m3*	*ug/m3*	*%*	*ug/m3*	*%*	*ug/m3*	*ug/m3*	*ug/m3*	*ug/m3*	*ug/m3*
VP-1	**12/13/2011**	**<25,000**	**<13,000**	**<21,000**	**<17,000**	**<9,200**	**<7,000**	**<17,000**	**<10,000**	**<0.10**	**<87,000**	**<7,200**	**<20,000**	**<10,000**	**0.0017**	**25,000**	**<8,300**	**89**	**<10,000**	**3.5**	**<8,700**	**<6,000**	**<9,200**	**<11,000**	**<16,000**
VP-1-DUP	**12/13/2011**	**<19,000**	**<9,800**	**<16,000**	**<13,000**	**<7,000**	**<5,300**	**<13,000**	**<7,700**	**<0.078**	**<66,000**	**<5,500**	**<15,000**	**<7,600**	**0.0016**	**<5,400**	**<6,400**	**89**	**<7,600**	**2.9**	**<6,600**	**<4,600**	**<7,000**	**<8,700**	**<12,000**
VP-2_5	**12/13/2011**	**45**	**<5.4**	**<9.1**	**<7.1**	**<3.9**	**<3.0**	**<7.3**	**<4.2**	**7.7**	**<37**	**5.0**	**<8.4**	**<4.2**	**0.00054**	**<3.0**	**<3.5**	**78**	**<4.2**	**11**	**5.0**	**<2.5**	**<3.9**	**<4.8**	**<6.6**
VP-2_7.5	**12/13/2011**	**38**	**<5.1**	**<8.5**	**<6.6**	**<3.6**	**<2.8**	**<6.8**	**<4.0**	**<0.080**	**<34**	**<2.8**	**<7.9**	**<4.0**	**0.00095**	**<2.8**	**<3.3**	**88**	**<4.0**	**5.6**	**17**	**<2.4**	**<3.6**	**<4.5**	**<6.2**
VP-3_5	**12/13/2011**	**<76**	**<38**	**<64**	**<50**	**<28**	**<21**	**<52**	**<30**	**<0.076**	**<260**	**<21**	**<60**	**<30**	**0.00016**	**<21**	**<25**	**79**	**<30**	**20**	**<26**	**<18**	**<28**	**<34**	**<47**
VP-3_7.5	**12/13/2011**	**<260**	**<130**	**<220**	**<170**	**<93**	**<71**	**<180**	**<100**	**<0.10**	**<880**	**<73**	**<200**	**<100**	**<0.00021**	**<72**	**<84**	**78**	**<100**	**17**	**<88**	**<61**	**<93**	**<120**	**<160**

TABLE 4

SOIL VAPOR ANALYTICAL DATA
CHEVRON SERVICE STATION 96817
1705 CONTRA COSTA BOULEVARD
PLEASANT HILL, CALIFORNIA

Abbreviations and Notes:

TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics
B = Benzene
T = Toluene
E = Ethylbenzene
X = Xylene
MTBE = Methyl tert butyl ether
EDB = 1,2-Dibromoethane (Ethylene dibromide)
1,1-DCE = 1,1-Dichloroethene
1,2-DCA = 1,2-Dichloroethane
CHB = Chlorobenzene
CF = Chloroform
C-1,2-DCE = Cis-1,2-Dichloroethene
PCE = Tetrachloroethene
T-1,2-DCE = Trans-1,2-Dichloroethene
TCE = Trichloroethene
V.C. = Vinyl Chloride
-- = Not available / not applicable
<x = Not detected above laboratory method detection limit

TABLE 5

SOIL PHYSICAL PARAMETER DATA
CHEVRON SERVICE STATION 96817
1705 CONTRA COSTA BOULEVARD
PLEASANT HILL, CALIFORNIA

Sample ID	*Date*	*Depth (fbg)*	*Soil Properties*								
			Moisture Content	*Dry Density Bulk*	*Total Porosity*	*Air Filled Porosity*	*Water Filled Porosity*	*Mean Grain Size Description*	*Particle Size Distribution (%wt)*		
			%wt	*g/cc*	*%Vb*	*%Vb*	*%Vb*		*Fine Sand*	*Silt*	*Clay*
VP-2	12/16/2011	5	22.2	1.57	40.1	5.2	34.9	Silt	19.04	58.78	22.18

Abbreviations and Methods:

fbg = feet below grade
%wt= Weight Percent
g/cc= gram per cubic centimeter
%Vb= percent bulk volume
Moisture Content by API RP 40/ASTM D2216
Dry Bulk Density by API RP 40
Porosity by API RP 40
Particle Size Distribution by ASTM D422/D4464M

APPENDIX C

TERRADEX SITE MANAGEMENT PLAN

Site Management Plan for Future Risk Mitigation
Chevron Service Station 9-6817
1705 Contra Costa Boulevard
Pleasant Hill, California 94523

September 13, 2004

Prepared by,
Robert K. Wenzlau, P.E.
Terradex, Inc.

1. Introduction

A site management plan is a monitoring strategy applying land use and groundwater monitoring while a site biodegrades to water quality goals consistent with the San Francisco Bay Basin Plan. A site management plan can be adjunct to a site closure in order to mitigate the potential risk of residual contamination. Utilizing a site management plan is applicable to sites where site characterization is completed to expected level by the oversight agency, corrective action has been completed to the extent practicable, and additional time is required for the residual contamination to biodegrade.

A registered professional engineer, on behalf of Chevron Environmental Management Company (CEMC), has prepared this site management plan.

2. Site Management Plan

This site management plan provides for protection of public health, the environment and water resources during the post-closure monitoring period and while the residual contamination continues to remediate through biodegradation. This site management plan will provide controls to limit the realization of the three potential exposure/receptor scenarios identified within the CSM.

- **Boundaries of Site Management Zone.** The site management zone is limited to the subject property and the adjacent streets including Linda Avenue, Doris Drive and Contra Costa Boulevard. Currently is an operating gas station with car wash:

- **Limiting Future Construction Worker Contact with Soil.** To limit the prospect of this exposure scenario, excavation and new construction land activity within the site management zone will be monitored.

- **Limiting Future Inhalation by Resident or Commercial Worker of Vapor Hydrocarbons.** To limit the prospect of this exposure scenario, excavation new construction and real estate/occupancy land activity data within the site management zone will be monitored. The monitoring for these changes will be limited to the location of the former dry cleaner; land activities will be monitored for 1) the use of the property changes from commercial to residential in which sensitivity increases, 2)

the location of the structure were to be placed above the former dry cleaner area in which the dose could be greater concentration, or 3) subsurface construction were to occur into the property and adjacent street in which the receptor is in greater proximity to the dose.

- **Limiting Future Environmental Receptor Contact with Soil.** To limit the prospect of this exposure scenario, excavation land activity data within the site management zone will be monitored. A depth interval of five feet will be maintained within the street, and one foot will be maintained within the station property.

- **Limiting Future Groundwater Use for Drinking Water or Agricultural.** To protect water resources, implement site management measures within the zone of residual contamination to direct appropriate mitigation of a future water supply well to protect water resources, and the prospective user of the water resource. New water resources development within 1,000 feet of the site will be monitored for.

- **Validate Stability of Residual Contamination Plume.** Monitor groundwater quality at well EA-5 annually for indication of loss of stability of the contaminant plume.

- **Duration of Site Management Plan.** The site management plan shall be maintained until a request to discontinue the site management plan is made to the CRWQCB-SFRB.

The site management plan, to the extent practicable, provides for prevention of activities causing human or environmental risk. The approach depends upon four elements: 1) monitoring land activity data, 2) alerting the responsible party if land activity data could pose an environmental or human health risk, and then 3) mitigating the risk as applicable to the detected land activity. This monitor, alert, and mitigate approach is framed by a fourth element, an assurance plan that includes reporting, and quality assurance. The responsible party will need to maintain such systems until a request to terminate site management activities is granted by the appropriate regulatory agency.

2.1. Land Activity Monitoring Plan Element

The objective of a monitoring plan is to target and monitor indicators of future land activity leading to potential human health and environmental risk. A land activity monitoring system aggregates land use records including permits, notices and recordings, and analyzes these records against criteria set to be protective of human health and the environment. The following data categories are applied in this monitoring plan:

Table 3-1
Land Use Monitoring Program

Land Use Data	Land Use Management Zones		Land Use Alert Threshold	Data Collection Frequency	Data Review Period (Days)
	Site	Public Strets			
Construction	Yes	Yes	Projects with excavation >1' on the station or > 5' off station boundary or dewatering. Placement of occupied structures above the former dry cleaner.	Monthly	5
Real Estate	Yes	No	Change from operating service station by identification of new owner	Monthly	5
Excavation Notices	Yes	Yes	Projects with excavation >5' or dewatering	Daily	2
Water Well Permitting	Yes	Yes	New public water supply wells or dewatering permits within 1,000 feet of site.	Monthly	5

- **Construction Data.** This data includes construction bids for commercial, large residential and municipal projects typically over $50,000 in construction costs.

- **Real Estate Data.** Sales of residential and commercial real estate properties, as well as undeveloped land. All property transactions are recorded at the Contra Costa County Recorders Office.

- **Excavation Notices.** The data includes all excavation activities reported to Underground Service Alert North (USA North). All excavators excavating at or near a public right-of-way are required to provide 48-hour notice of the excavation to USA North.

- **Water Well Permitting.** Terradex queries Department of Health Services for new water well permits. The frequency of this query is evolving, but shall be a minumum on a monthly frequency.

A land use monitoring program will be implemented upon closure. The land use management zone is identified within Figure 10 and their respective land activity data represented within Table 3-2. Within this zone, real estate, building permit, construction, excavation and water well permitting will be monitored. A land use alert threshold is set for each category of land use monitored, and if exceeded becomes a basis for alerting the responsible party. A data review period is the amount of time provided to validate the land activity data prior to alerting the responsible party.

2.2. Groundwater Quality Monitoring Plan Element

The objective of this revised groundwater monitoring plan is to verify that the plume continues to naturally biodegrade. The groundwater monitoring program is represented within Table 6. Well EA-5 is selected because it is downgradient of both source areas. An alert criterion is set based upon the monitoring objective and current water quality within the well. In addition to groundwater quality monitoring, a gradient will be calculated and compared to an alert criteria based on historical trends. The monitoring frequency is annual. All groundwater quality data will be uploaded into GeoTracker.

Alert criteria for the monitoring well were established based upon trends in water quality. Following the groundwater monitoring event, a registered professional shall review groundwater elevation data and concentrations from sampling and stability against stated alert thresholds. A registered professional will determine continued attentuation after reviewing water quality for continuing downward trends (accommodating for upward fluctuations consistent with monitoring history).

Table 3-2
Proposed Groundwater Monitoring Plan

Monitoring Well(s)	Monitoring Objective	Analytes	Groundwater Quality Alert Threshold (ppb)	Frequency
EA-5	Observe for new upward trends, and observe for conditions favorable to biodegradation.	Methods TPHg 8015 BTEX+Halogenated Organics by 8260 Dissolved Oxygen	TPHg > 200 ppb B > 10 ppb TCE > 100 ppb PCE > 100 ppb MtBE > 500 ppb	Annual, September

2.3. Alert Plan Element

If a land use activity is detected that has characteristics that exceed the Land Use Alert Threshold, then the responsible party will be notified of the activity within the data review period. The alert contains land activity data that has been validated to the extent practicable. Included in the notice is the nature of the land activity, as well as applicable contacts to either the contractor or project owner. A similar alert model occurs with groundwater monitoring results.

These alerts are transmitted to the responsible party and to the regulatory agency with oversight the site (*i.e.* California Regional Water Quality Control Board). The notices will be sent electronically to the regulatory agency, and uploaded to the State of California's Geotracker database. An alert is ultimately "closed" either because the land activity did not pose a human or environmental risk, or because the risk was mitigated. The information used to "close" an alert will be recorded in an updated alert record.

2.4. Mitigation Plan Element

The responsible party will undertake mitigation measures to avert human or environmental risk associated with a prospective land activity. These activities can be self-directed, and do not necessarily require regulatory oversight. Such activities may include the following:

- Directing proper treatment and disposal of potentially contaminated groundwater or soil.

- Notifying an excavator of chemicals of concern, and health resources to guide their health and safety.

- Identifying information about residual contamination such that a contractor or project owner can operate safely, and complete projects where human health risk is mitigated.

All mitigation measures will be described within the record associated with the original alert for the land activity exceeding the threshold criteria.

2.5. Assurance Plan Element

The assurance plan is intended to provide environmental regulatory oversight agencies the comfort and confidence in application of a land use monitoring system to aid in the protection of human health and the environment. Components of the assurance plan include 1) reporting, 2) quality control, and 3) durability of the service.

Reporting of monitoring and alerts will be available through Internet access to a secure web site or through transmittal of period electronic reports containing up-to-date monitoring and alert data. No formal report submittals to the regulatory agency are expected, though an agency can establish a reporting frequency, and the information system will automatically transmit the electronic report to a destination of choice.

Quality of the land activity data is evaluated periodically by contacting the applicant, and validating that the land activity is occurring. The information technology has redundant processes to geo-locate the land activities relative to the site management zones. When land activity information is vague, the applicant will be contacted to obtain relevant details about a prospective land activity. On an annual basis, the contact information on potentially alerted organizations would be verified, and updated as appropriate.

The site management plan is a commitment to provide oversight into the future. CEMC will provide notice to the environmental agency if a change is made in the land use monitoring system. Currently, CEMC anticipates using Terradex to provide the monitoring, alerting and assurance services. Terradex has a notification mechanism provided by its legal counsel to inform CEMC in the event of termination of its operations, and that time CEMC would retain an alternate monitoring service provider.

3. Terradex Implementation of the Site Management Plan

The site management plan is reflected through implementation of Terradex's land use monitoring and alert system. A Site Sentinel™ for this Chevron Service Station is enclosed within this attachment. The Site Sentinel™ represents the site management zone, the land activities monitored with criteria, and the contacts alerted. An account for access by the the California Regional Water Quality Control Board exists, and this site will be added to the tracked listings. Alerts, if generated, will be sent through GeoTracker to the CRWQCB. The Site Sentinel™ will be activated upon receipt of a closure approval form the CRWQCB. Once activated, a final Site Sentinel will be transmitted.

Site Sentinel: Chevron Service Station 9-6817

Cover Sheet

PROJECT INFORMATION

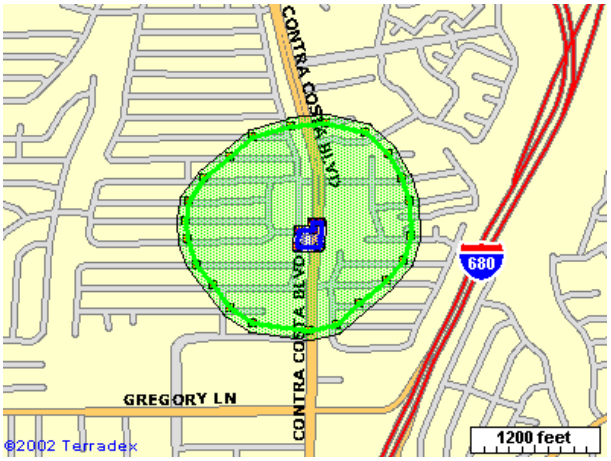
Primary Information

Site Name: Chevron Service Station 9-6817
Primary Address: 1705 Contra Costa Blvd, Pleasant Hill, CA 94583
Site Sentinel Number: 9258802115

Hosting Status

Activated: No
Start Date: None
End Date: None

ADVISORY ZONE LOCATIONS



ADVISORY ZONES

Impact	Zone Designation
Watch	Water Resource Development Zone
Notification	Site Management Zone

DISCLAIMER

No warranty expressed or implied, is made whatsoever in connection with this report. Terradex, Inc. specifically disclaims the making of any such warranties, including without limitation, merchantability or fitness for a particular use or purpose. The user assumes all risk. In no event shall Terradex be liable to anyone, whether arising out of errors or omissions, negligence, accident or any other cause, for any loss or damage, including, without limitation, special, incidental, consequential, or exemplary damages.

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HOW TO USE THIS SITE SENTINEL

This is a multi-page Site Sentinel describing representations made into the Terradex system.

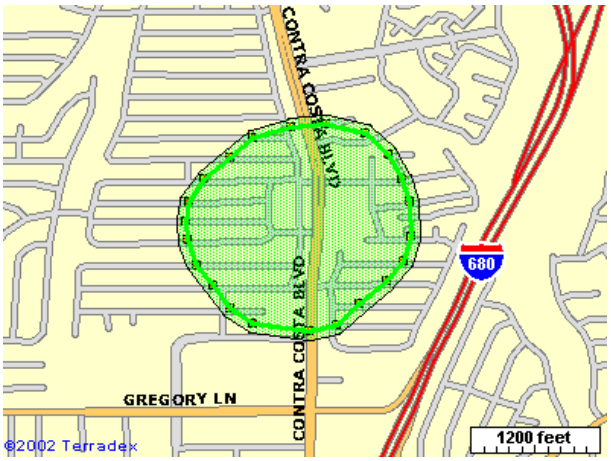
- **Cover Sheet:** This sheet contains the primary site information, the hosting status (e.g. duration and activation status), the location of the advisory zone(s) with their associated force (*i.e.* restriction, notification or watch).
- **Advisory Sheet(s).** An attached sheet describes each advisory zone including geographic coordinates, overview description, and land use controls.
- **Commitments, Contact Profiles and Documentation.** The final sheet contains reference to site commitments, the contacts party to this Sentinel and/or commitments, and any documents that have been uploaded to the Terradex system.

Please visit Terradex on the Internet to obtain further explanation of these forms at www.Terradex.com.

Site Sentinel: Chevron Service Station 9-6817

Environmental Watch

MAP OF WATCH ZONE



GEOGRAPHIC SPECIFICATION

Buffer Size: 100 feet

Geographic Coordinates: (Decimal Degrees in NAD 87)

Latitude	Longitude	Latitude	Longitude
1) 37.950359	-122.060387	13) 37.956615	-122.059863
2) 37.950584	-122.062060	14) 37.956329	-122.058674
3) 37.951074	-122.062765	15) 37.955695	-122.058009
4) 37.951729	-122.063269	16) 37.954959	-122.057566
5) 37.952362	-122.063752	17) 37.954243	-122.057344
6) 37.953098	-122.064034	18) 37.953221	-122.057284
7) 37.953671	-122.064095	19) 37.952465	-122.057526
8) 37.954284	-122.063994	20) 37.951872	-122.058050
9) 37.954939	-122.063510	21) 37.951177	-122.058856
10) 37.955572	-122.062765	22) 37.950563	-122.059561
11) 37.956165	-122.062039		
12) 37.956492	-122.060931		

SITE NOTICES

Designation	Water Resource Development Zone
Alert Criteria	New public water supply wells or dewatering permits within 1,000 feet Land Activity Data: Water Well Permitting Response Waiting Period: 48 Hours
Follow-up on Alert	Review Site Management Plan and issue alerts accordingly.
Chemicals of Concern	Not Applicable
Security	Not Viewable by Public Agency

WATCHES IN FORCE	*(web links to land use definitions)*
Not Applicable	Not Applicable

HOW TO USE THIS ENVIRONMENTAL WATCH DEVELOPMENT ADVISORY

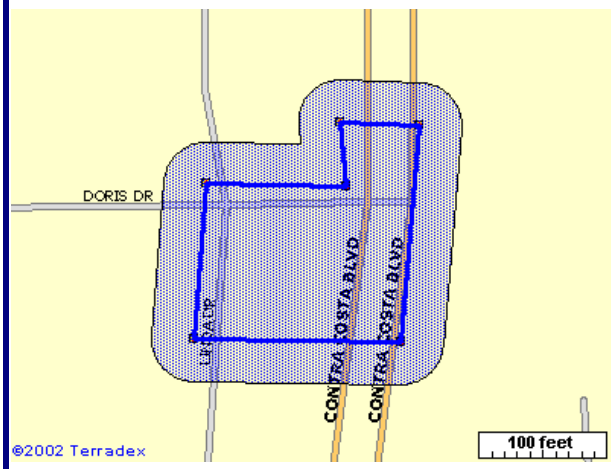
A watch zone observes a zone where land use queries to Terradex are reported back to the Responsible Party or their designee.

Terradex Site Sentinel Number: 9258802115 **Report Date: 9/13/2004**

Site Sentinel: Chevron Service Station 9-6817

Environmental Notification

MAP OF NOTIFICATION ZONE



GEOGRAPHIC SPECIFICATION

Buffer Size: 50 feet

Geographic Coordinates: (Decimal Degrees in NAD 87)

Latitude	Longitude	Latitude	Longitude
1) 37.953410	-122.060704		
2) 37.953400	-122.060241		
3) 37.953615	-122.060261		
4) 37.953604	-122.059999		
5) 37.952889	-122.060060		
6) 37.952899	-122.060745		

SITE NOTICES

Designation	Site Management Zone
Alert Criteria	Construction: project with excavation >1' on the station or >5' off station boundary or dewatering. Placement of occupied structures above the former dry cleaner. Real Estate: Change from operating service station by identification of new owner.
Follow-up on Alert	Review Site Management Plan and issue alerts accordingly.
Proof of Notification	
Summary of Notification	
Chemicals of Concern	Tetrachloroethylene, Trichloroethylene, Methyl t-butyl ether, Benzene, Automotive gasoline
Security	Viewable by Public Agency

NOTIFICATIONS IN FORCE

(web links to land use definitions)

Groundwater Usage	Agricultural, Drinking, Dry Well
Land Use Categories	City / County Owned, Day Care, Educational, Residential with landscaping, Residential without landscaping
Subsurface Improvements	Elevator, Occupied Basement, Swimming Pools, Underground Parking
Utility Worker Warning	Contact Alert, Vapor Presence

Terradex Site Sentinel Number: 9258802115 **Report Date: 9/13/2004**

Site Sentinel: Chevron Service Station 9-6817

Commitments, Contact Profiles and Documentation

COMMITMENTS

Category	Start Date	Frequency	Commitment
Site Reporting Obligations	9/1/2004	Annually	Groundwater Monitoring Report

CONTACT PROFILES

Commitment Notification	Edit Privilege	Contact By	Publicly Disclose Contact	Role / Contact
	Read Write Activate		No	**Role:** Responsible Party Tom Bauhs, ChevronTexaco, Inc. 6001 Bollinger Canyon Road, M/S K2204, San Ramon, CA 94583 **Voice:** 925-842-8898 **Fax:** None **Email:** TKBA@chevrontexaco.com
	Read Write	Email	No	**Role:** Agent Peter Biffar, Terradex, Inc. 1409 Dana Avenue, Palo Alto, CA 94301 **Voice:** (866) 461-5100 **Fax:** None **Email:** peter@terradex.com

DOCUMENTATION

Name (click link to download)	Publicly Disclose	Description

APPENDIX D

SUMMARY OF ENVIRONMENTAL INVESTIGATION AND REMEDIATION

SUMMARY OF ENVIRONMENTAL INVESTIGATION AND REMEDIATION
CHEVRON STATION 96817
1705 CONTRA COSTA BOULEVARD
PLEASANT HILL, CALIFORNIA

May 1986 Underground Storage Tank Replacement

Blaine Tech Services (BTS) of San Jose documented the replacement of two 10,000-gallon and one 5,000-gallon gasoline underground storage tanks (USTs) with three 10,000-gallon double-walled fiberglass USTs and one 1,000-gallon used-oil UST with a double-walled fiberglass UST. The new fuel and used oil USTs were replaced in the same excavations as the former USTs. During installation of the new fuel USTs, UST observation wells MW-1 and MW-2 (later referred to as MW-A and MW-B) were installed adjacent to the fuel USTs. During the initial monitoring and sampling of the wells light non-aqueous phase liquid (LNAPL) was observed in MW-A. Additional details are available in BTS reports entitled *Sampling Report* dated May 29 and August 20, 1986.

August 1986 Well Installation

EMCON Associates (EMCON) of San Jose installed onsite monitoring wells C-1 (MW-D) and C-2 (MW-C). No soil samples were collected for laboratory analysis. Additional details are available in EMCON's report entitled *Memorandum* dated September 15, 1986.

October 1987 Soil Vapor Contaminant Assessment

EA Engineering, Science, and Technology of Lafayette, California (EA) performed an initial soil vapor contaminant assessment (SVCA) for petroleum hydrocarbons at points V1 through V11. Aromatic hydrocarbons were detected in soil-vapor centered near the UST complex. Additional data are presented in the background section of EA's *Report of Investigation* dated February 3, 1989.

1987-1988 Site Reconstruction and Removal of Used Oil UST

In 1987 through 1988 all surface structures were demolished: however, the fuel USTs and product piping were left in place. A new station building was constructed and a car wash was built on the former dry cleaner property south of the station. On January 6, 1988 BTS oversaw the removal of the 1,000-gallon fiber glass used oil UST that was previously replaced in 1986. No replacement used oil UST was installed. Additional details are available in BTS' *Cumulative Format Sampling Report* dated March 21, 1988.

April 1988 Soil Vapor Contaminant Assessment

EA performed an additional SVCA for chlorinated hydrocarbons at new vapor points V1 through V23. EA concluded that PCE and was detected over a "wide area" and TCE "over a

less extensive area." EA concluded that "[b]ecause biological dechlorination of PCE to TCE can occur, the dry cleaner "could be the source of all the contaminants." Additional details are available in EA's *Report of Investigation Soil Vapor Contaminant Assessment* dated May 24, 1988.

August 1988 Well Installation

EA installed wells EA-1, EA-2, and EA-3 on and offsite. Additional details are available in EA's *Report of Investigation* dated February 3, 1989.

June 1989 Well Installation

EA installed downgradient offsite wells EA-4 and EA-5. EA also conducted a record search of leaking USTs from the State Water Resources Control Board and determined that a leaking 1,000-gallon UST containing mineral spirits had been reported at the Deen Pierce Paint Store at 1725 Contra Costa Boulevard in Pleasant Hill. This address is adjacent to, and upgradient of the site. The paint store was reported to have been in existence for over 40 years. The UST was removed in 1986. EA also determined that the Taco Bell property across Contra Costa Boulevard was at one time a Wilshire service station. A Union 76 station was located adjacent and north of the Taco Bell property. This station has since been reconstructed as a McDonald's restaurant. Additional details are available in EA's *Report of Investigation-Soil Vapor Contaminant Assessment* dated August 9, 1989.

August 1991 Groundwater Extraction System Start-up

Beginning in August 1991, groundwater was extracted from well EA-2 and processed through three, 200-pound aqueous carbon units arranged in series. During operation through November 1991 approximately 190,682-gallons of water was extracted at an average flow rate of 2 gallons per minute (gpm). Between March and October 1991, approximately 1.6-gallons of LNAPL were bailed from well MW-D. Additional details are available in EA's *Report of System Startup and Efficiency* dated December 1991.

May 1992 Modification of Remediation System

The remediation system was modified by Geraghty & Miller, Inc. (GM) to include well MW-D as a second extraction well to remove additional dissolved-phase hydrocarbons downgradient of the petroleum hydrocarbon source area. Additional details are available in GM's letter, titled *Extraction System Modifications* dated May 11, 1992.

November 1995 Product Line Removal

As part of site renovations, Touchstone Developments Environmental Management (TD) of Pleasanton removed trench liners, pea gravel, and product piping, and collected compliance soil samples. Additional details are available in TD's *Product Line Removal Report* dated December 19, 1995.

July 1996 Remediation System Shutdown

In July 1996, the groundwater extraction system was shut down. The system had operated from August 1991 to July 1996. Approximately 1,900,000 gallons of impacted water were extracted, removing an estimated 11.5 pounds of dissolved TPHg and 41.1-pounds of dissolved chlorinated hydrocarbons.

March 2005 Well Destruction

In March 2005, Cambria Environmental Technology, Inc. (Cambria) properly destroyed wells MW-C, MW-D, and EA-1 through EA-4 in response to the RWQCB's January 14, 2005 UST Case Closure letter. Case closure was requested by Terradex, Inc. (Terradex) on behalf of Chevron in the September 13, 2004 *Closure Request*. Additional details are available in Cambria's *Well Destruction Letter* dated October 31, 2005.

2011 Subsurface Investigation

In December 2011, CRA advanced onsite and offsite soil borings CPT-1 through CPT-20, and installed onsite soil vapor probes VP-1 through VP-3. The purpose of this investigation was to delineate the vertical and horizontal extent of petroleum and chlorinated hydrocarbons in soil and groundwater, and to assess soil vapor onsite. Additional details of this investigation are available in CRA's March 2, 2012 *Additional Site Investigation Report and Site Conceptual Model.*

2005 to Present Groundwater Monitoring

As a part of the case closure approved by the RWQCB, a site management plan was approved that required sentinel well EA-5 to be sampled annually during the second quarter. The data collected from EA-5 is used to determine if the groundwater plume remains stable. Additional details are available in Terradex's September 13, 2004 *Closure Request.*

APPENDIX E

CPT REPORT/LOGS

GREGG DRILLING & TESTING, INC.
GEOTECHNICAL AND ENVIRONMENTAL INVESTIGATION SERVICES

June 13, 2014

CRA
Attn: Celina Hernandez

Subject: CPT Site Investigation
Chevron 96817
Pleasant Hill, California
GREGG Project Number: 14-097MA

Dear Ms. Hernandez:

The following report presents the results of GREGG Drilling & Testing's Cone Penetration Test investigation for the above referenced site. The following testing services were performed:

1	Cone Penetration Tests	(CPTU)	☒
2	Pore Pressure Dissipation Tests	(PPD)	☒
3	Seismic Cone Penetration Tests	(SCPTU)	☐
4	UVOST Laser Induced Fluorescence	(UVOST)	☐
5	Groundwater Sampling	(GWS)	☐
6	Soil Sampling	(SS)	☒
7	Vapor Sampling	(VS)	☐
8	Pressuremeter Testing	(PMT)	☐
9	Vane Shear Testing	(VST)	☐
10	Dilatometer Testing	(DMT)	☐

A list of reference papers providing additional background on the specific tests conducted is provided in the bibliography following the text of the report. If you would like a copy of any of these publications or should you have any questions or comments regarding the contents of this report, please do not hesitate to contact our office at (925) 313-5800.

Sincerely,
GREGG Drilling & Testing, Inc.

Mary Walden
Operations Manager

950 Howe Rd • Martinez, California 94553 • (925) 313-5800 • FAX (925) 313-0302
www.greggdrilling.com

Cone Penetration Test Sounding Summary

-Table 1-

CPT Sounding Identification	Date	Termination Depth (feet)	Depth of Groundwater Samples (feet)	Depth of Soil Samples (feet)	Depth of Pore Pressure Dissipation Tests (feet)
CPT-21	6/04/14	53	-	-	-
CPT-23	6/02/14	73	-	10, 13, 18, 23, 28, 33, 38, 43, 48, 53, 58, 60, 63, 66, 69, 73	-
CPT-24	6/03/14	63	-	10, 15, 20NR, 21, 25, 30, 33, 35, 40, 45, 50, 55, 60	-
CPT-25	6/06/14	53	-	10, 13, 18, 21, 28, 33, 38, 43, 48, 50	-
CPT-26	6/04/14	54	-	10, 12, 15, 20, 25, 30, 35, 40, 45, 50	54.1
CPT-27	6/05/14	53	-	10, 15, 20, 21, 23 25, 30, 35, 40, 45, 47, 50	-
CPT-28	6/04/14	53	-	-	-
CPT-29	6/05/14	53	-	-	-
CPT-30	6/05/14	58	-	10, 15, 20, 25, 30, 35, 40, 45, 50	50.0
CPT-31	6/06/14	56	-	10, 12, 14, 15, 20, 25, 30, 35, 40, 45, 50	-
CPT-32	6/06/14	53	-	10, 13, 15, 20, 25, 30, 35, 40, 45, 50	-
CPT-33	6/06/14	58	-	10, 15, 20, 25, 30, 35, 40, 45, 50, 55	-

Bibliography

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Roberston, P.K., "Soil Classification using the Cone Penetration Test", Canadian Geotechnical Journal, Vol. 27, 1990 pp. 151-158.

Mayne, P.W., "NHI (2002) Manual on Subsurface Investigations: Geotechnical Site Characterization", available through www.ce.gatech.edu/~geosys/Faculty/Mayne/papers/index.html, Section 5.3, pp. 107-112.

Robertson, P.K., R.G. Campanella, D. Gillespie and A. Rice, "Seismic CPT to Measure In-Situ Shear Wave Velocity", Journal of Geotechnical Engineering ASCE, Vol. 112, No. 8, 1986 pp. 791-803.

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Robertson, P.K., T. Lunne and J.J.M. Powell, "Geo-Environmental Application of Penetration Testing", Geotechnical Site Characterization, Robertson & Mayne (editors), 1998 Balkema, Rotterdam, ISBN 90 5410 939 4 pp 35-47.

Campanella, R.G. and I. Weemees, "Development and Use of An Electrical Resistivity Cone for Groundwater Contamination Studies", Canadian Geotechnical Journal, Vol. 27 No. 5, 1990 pp. 557-567.

DeGroot, D.J. and A.J. Lutenegger, "Reliability of Soil Gas Sampling and Characterization Techniques", International Site Characterization Conference - Atlanta, 1998.

Woeller, D.J., P.K. Robertson, T.J. Boyd and Dave Thomas, "Detection of Polyaromatic Hydrocarbon Contaminants Using the UVIF-CPT", 53rd Canadian Geotechnical Conference Montreal, QC October pp. 733-739, 2000.

Zemo, D.A., T.A. Delfino, J.D. Gallinatti, V.A. Baker and L.R. Hilpert, "Field Comparison of Analytical Results from Discrete-Depth Groundwater Samplers" BAT EnviroProbe and QED HydroPunch, Sixth national Outdoor Action Conference, Las Vegas, Nevada Proceedings, 1992, pp 299-312.

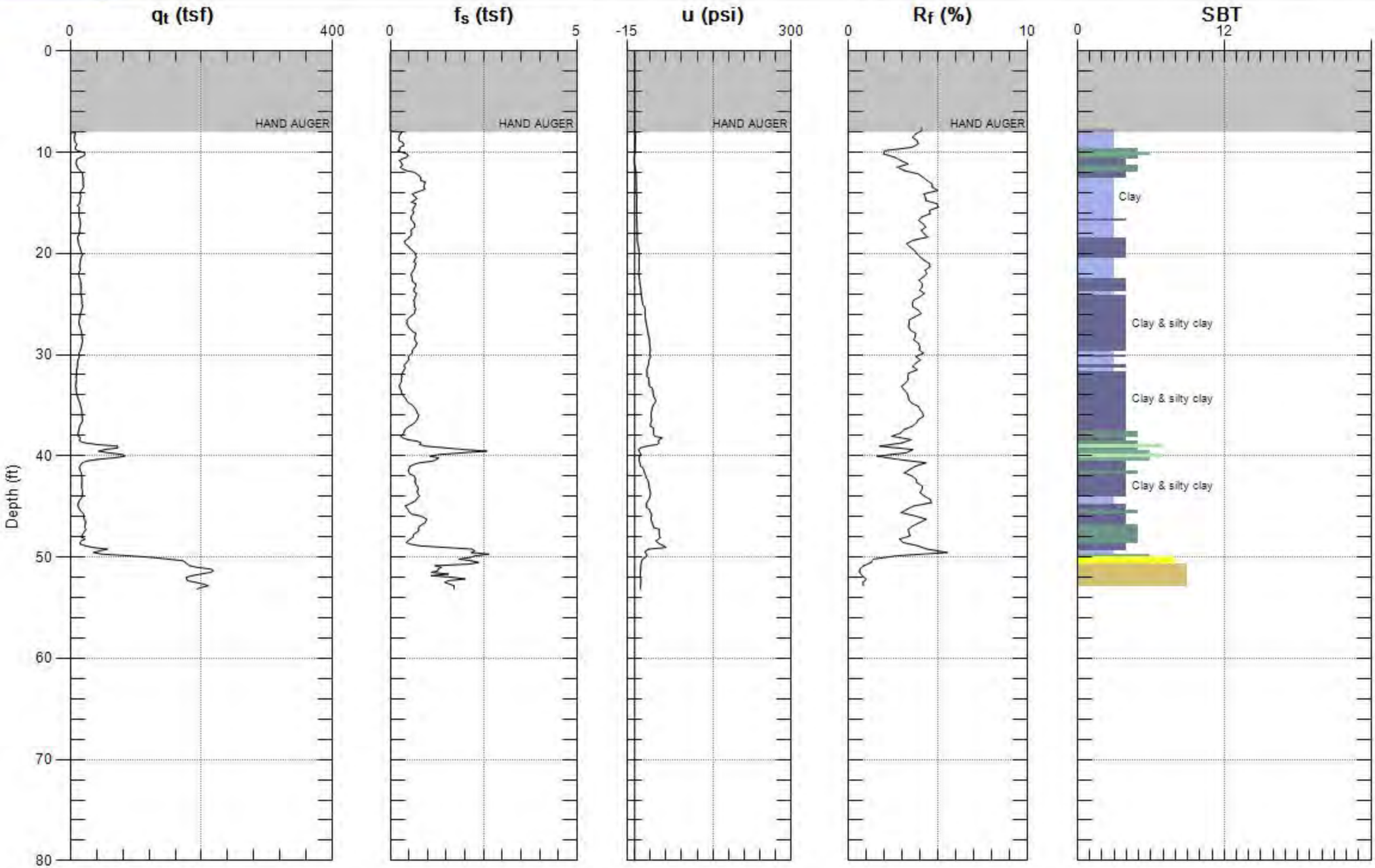
Copies of ASTM Standards are available through www.astm.org

GREGG

CRA

Site: CHEVRON 96817
Sounding: CPT-21

Engineer: C.HERNANDEZ
Date: 6/4/2014 11:00



Max. Depth: 53.150 (ft)
Avg. Interval: 0.328 (ft)

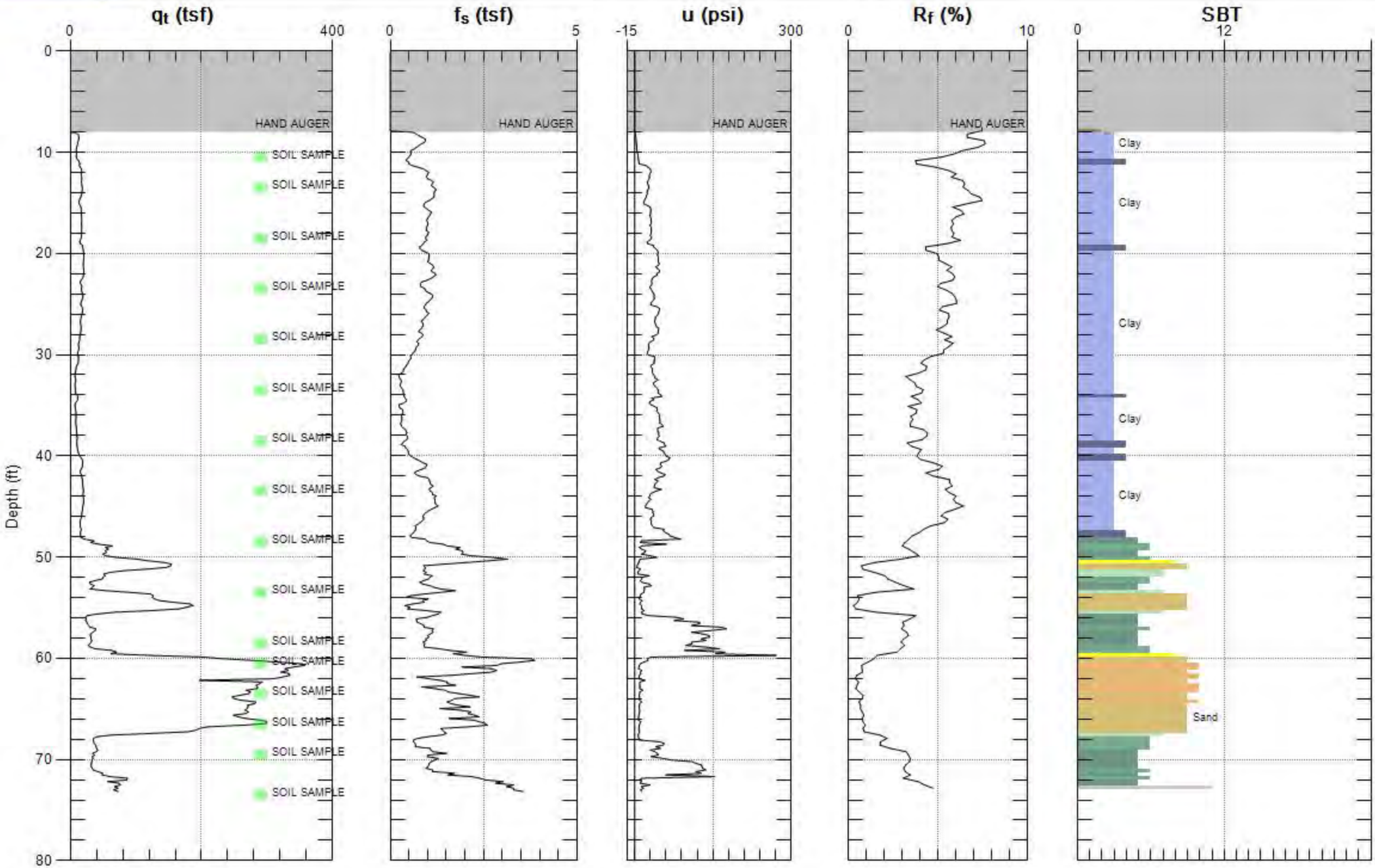
SBT: Soil Behavior Type (Robertson 1990)

GREGG

CRA

Site: CHEVRON 96817
Sounding: CPT-23

Engineer: C.HERNANDEZ
Date: 6/2/2014 12:21



Max. Depth: 73.163 (ft)
Avg. Interval: 0.328 (ft)

SBT: Soil Behavior Type (Robertson 1990)

GREGG

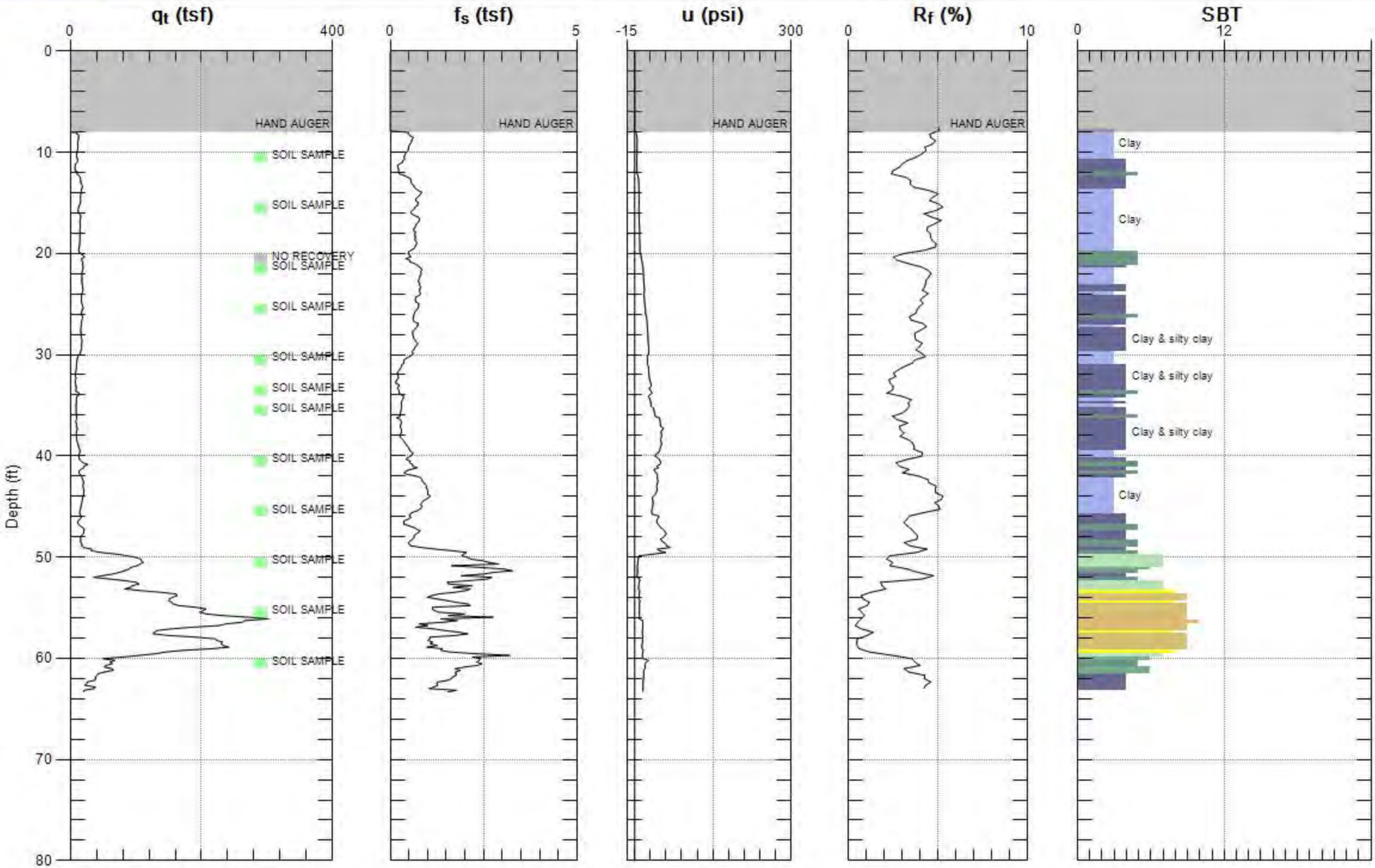
CRA

Site: CHEVRON 96817

Sounding: CPT-24

Engineer: C.HERNANDEZ

Date: 6/3/2014 02:13



Max. Depth: 63.320 (ft)
Avg. Interval: 0.328 (ft)

SBT: Soil Behavior Type (Robertson 1990)

GREGG

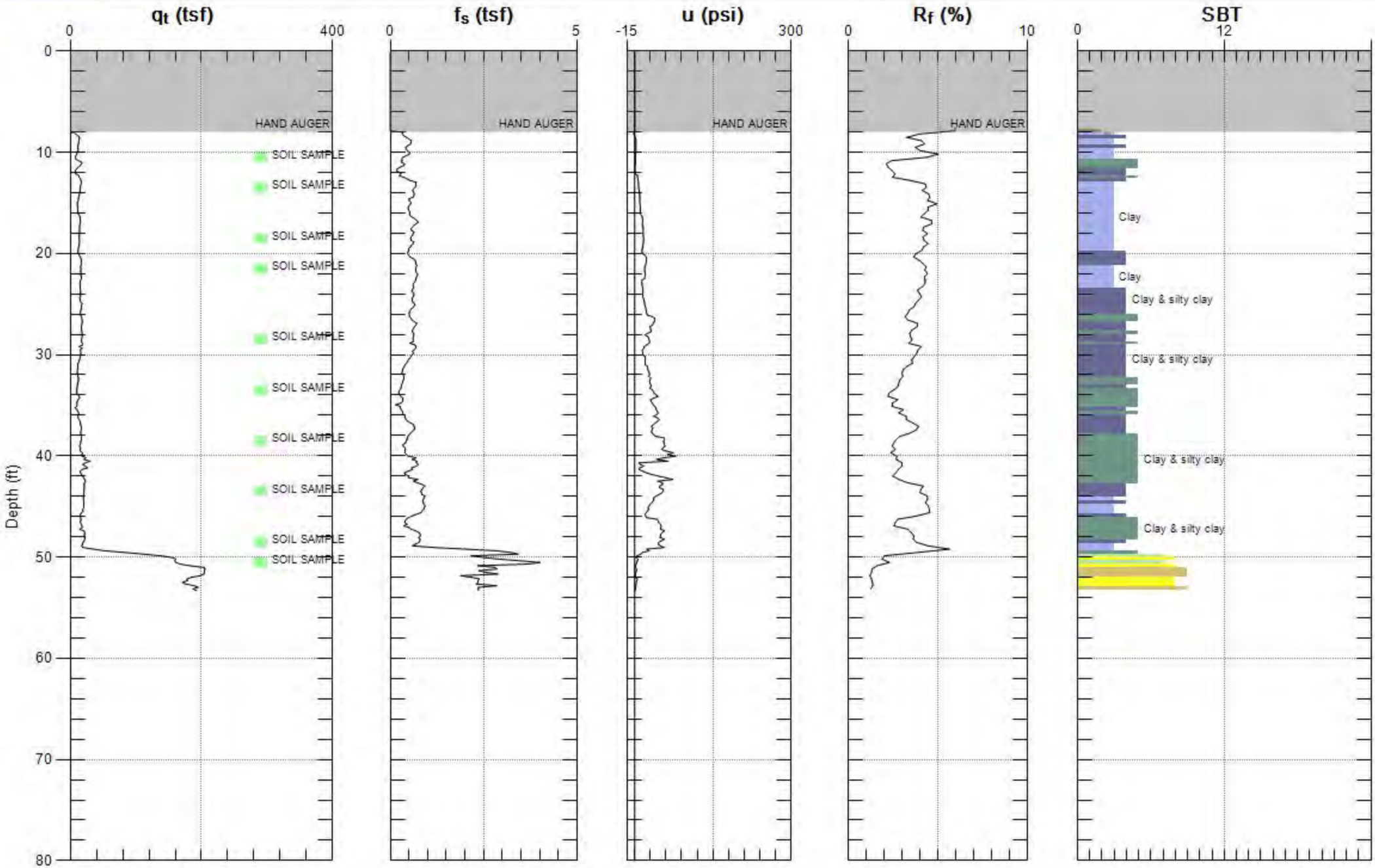
CRA

Site: CHEVRON 96817

Sounding: CPT-25

Engineer: C.HERNANDEZ

Date: 6/6/2014 02:33



Max. Depth: 53.314 (ft)
Avg. Interval: 0.328 (ft)

SBT: Soil Behavior Type (Robertson 1990)

GREGG

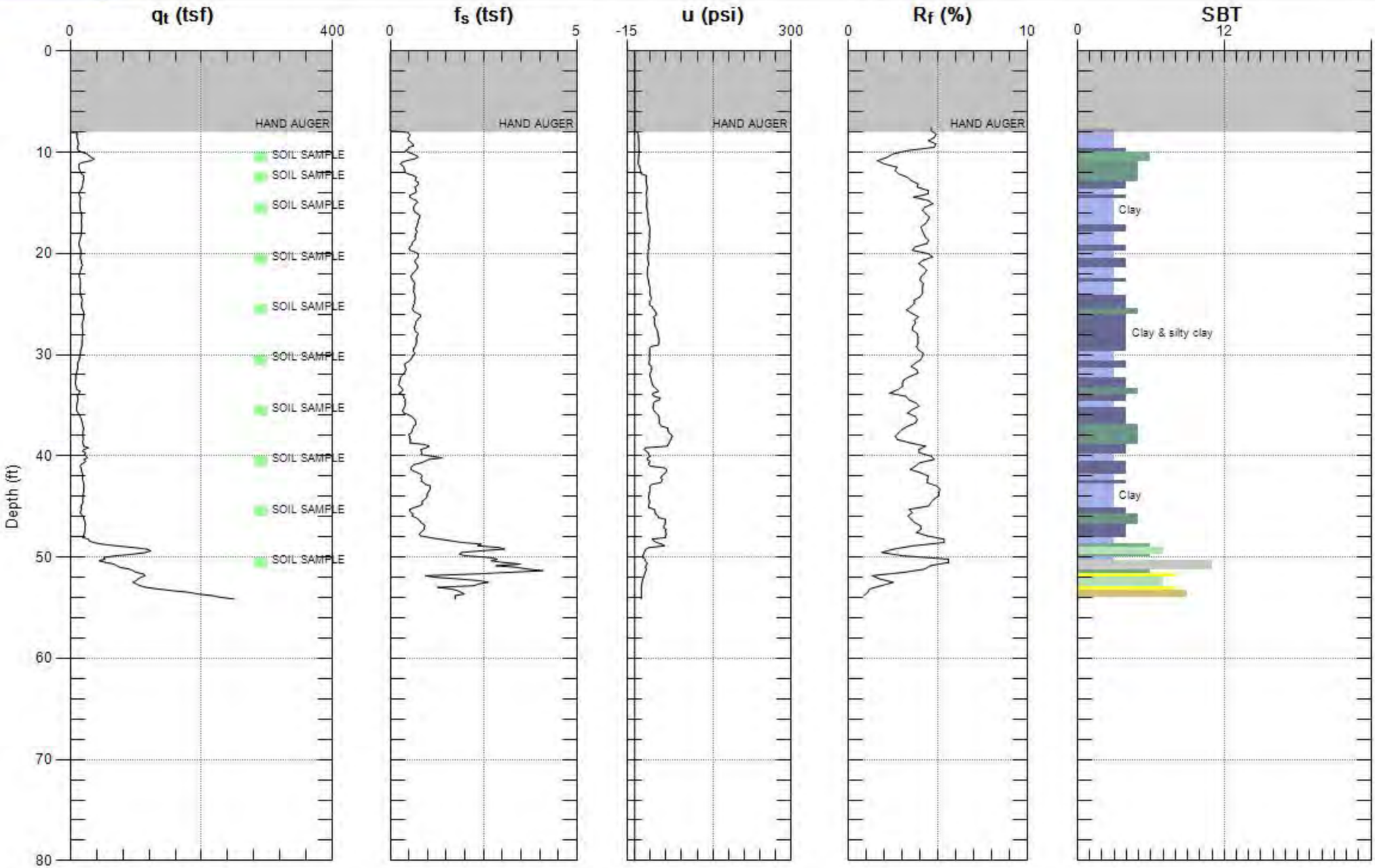
CRA

Site: CHEVRON 96817

Sounding: CPT-26

Engineer: C.HERNANDEZ

Date: 6/4/2014 07:40



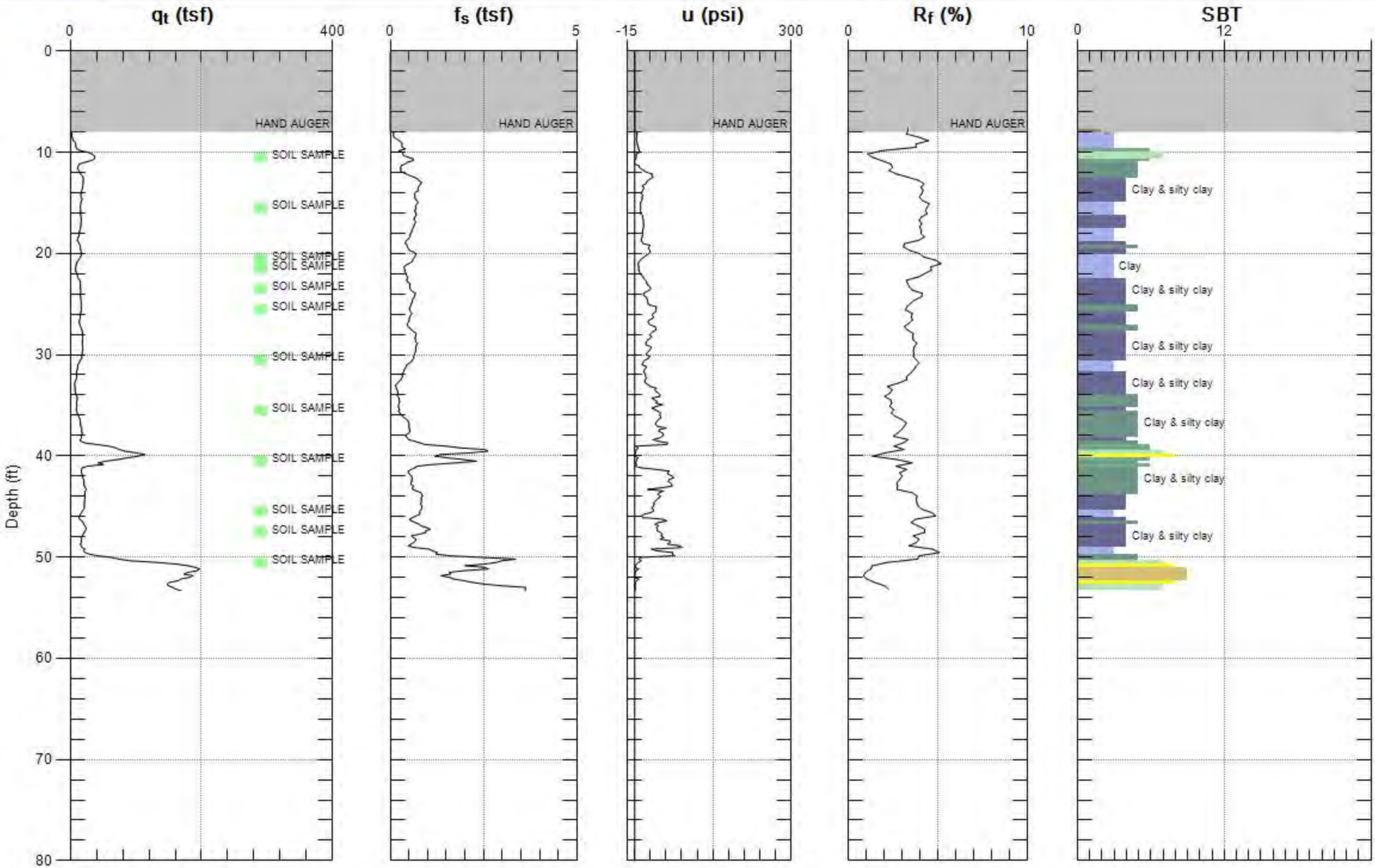
Max. Depth: 54.134 (ft)
Avg. Interval: 0.328 (ft)

SBT: Soil Behavior Type (Robertson 1990)

GREGG CRA

Site: CHEVRON 96817
Sounding: CPT-27

Engineer: C.HERNANDEZ
Date: 6/5/2014 07:45



Max. Depth: 53.314 (ft)
Avg. Interval: 0.328 (ft)

SBT: Soil Behavior Type (Robertson 1990)

GREGG

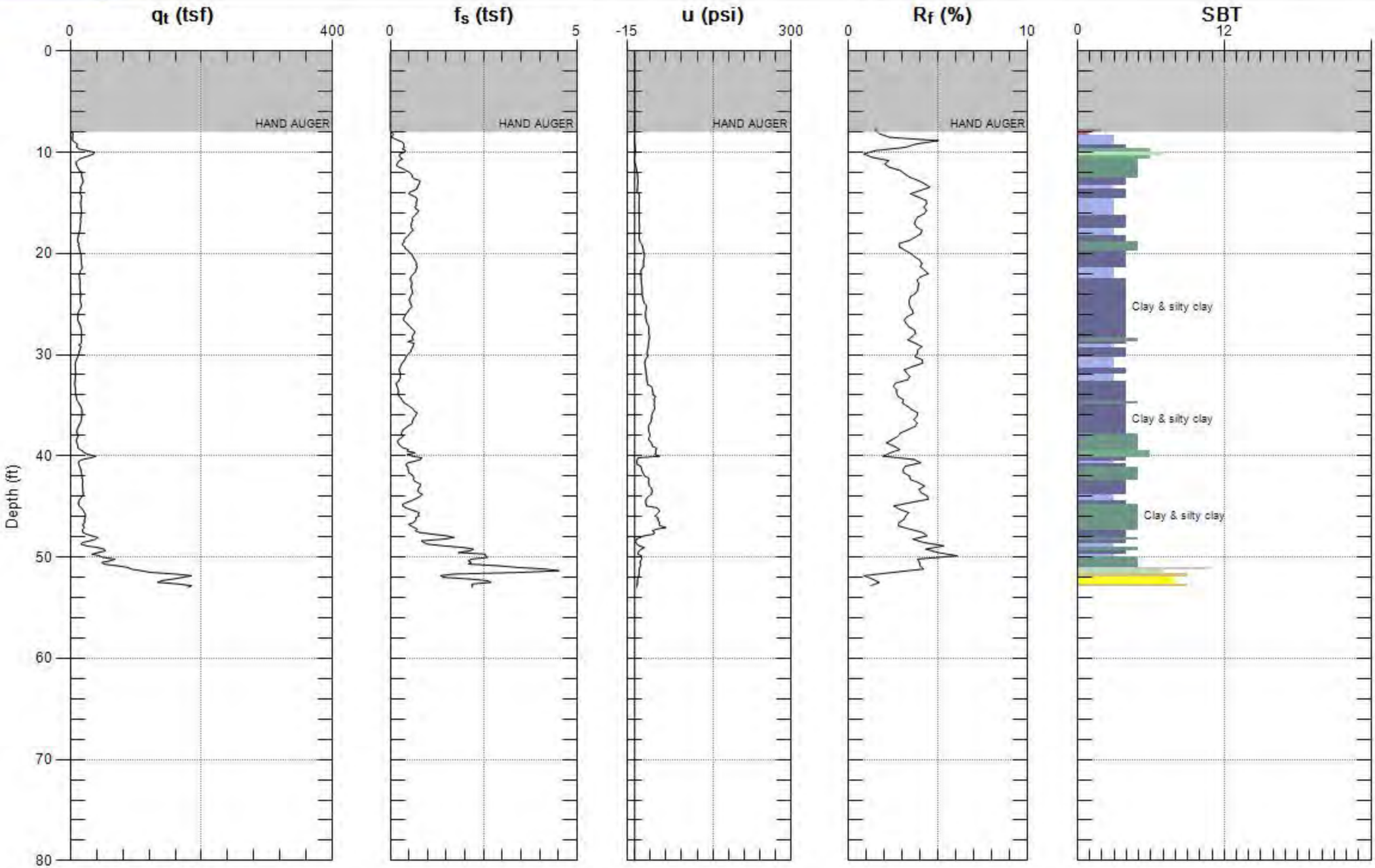
CRA

Site: CHEVRON 96817

Sounding: CPT-28

Engineer: C.HERNANDEZ

Date: 6/4/2014 02:46



Max. Depth: 52.986 (ft)
Avg. Interval: 0.328 (ft)

SBT: Soil Behavior Type (Robertson 1990)

GREGG

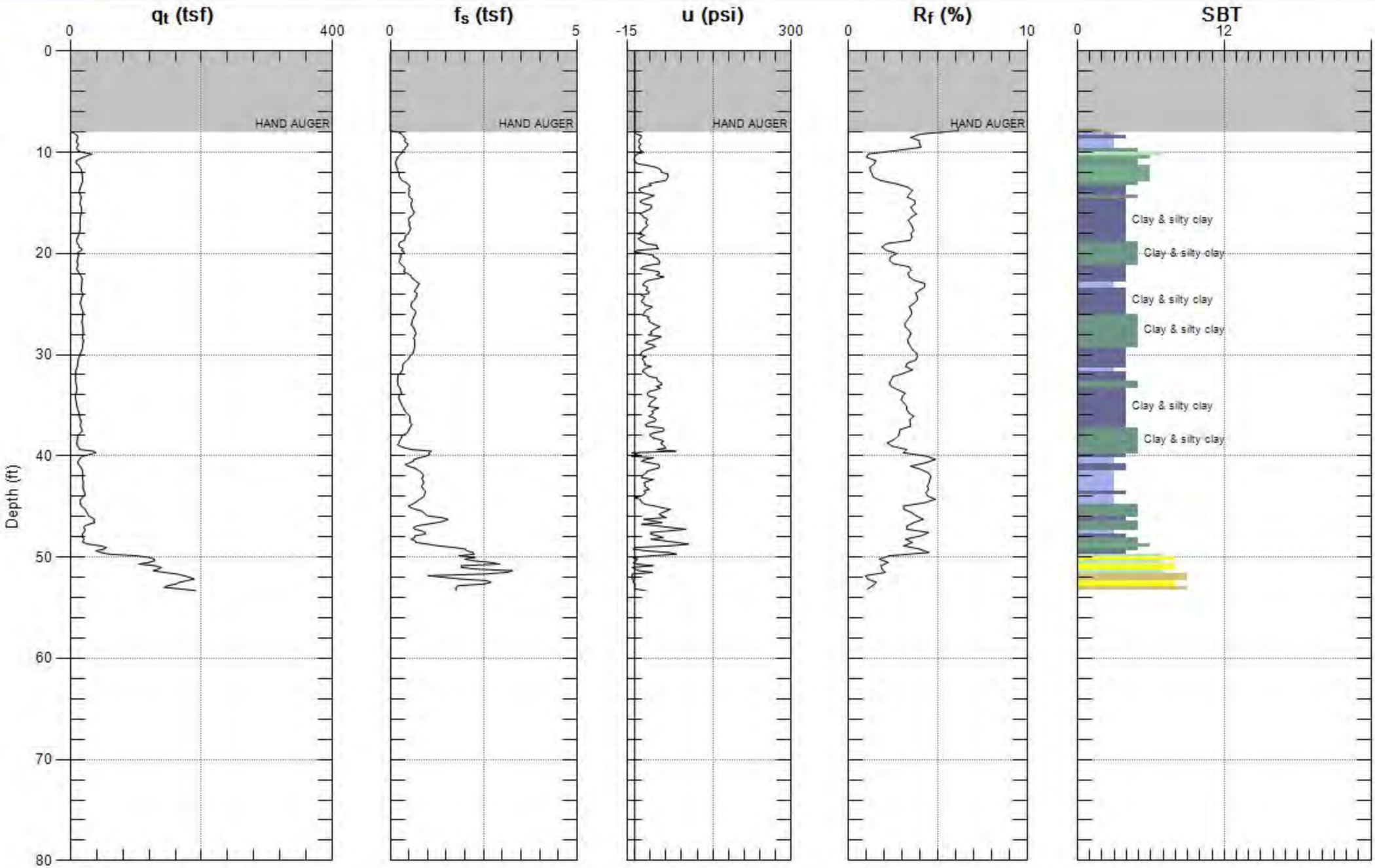
CRA

Site: CHEVRON 96817

Sounding: CPT-29

Engineer: C.HERNANDEZ

Date: 6/5/2014 10:48



Max. Depth: 53.314 (ft)
Avg. Interval: 0.328 (ft)

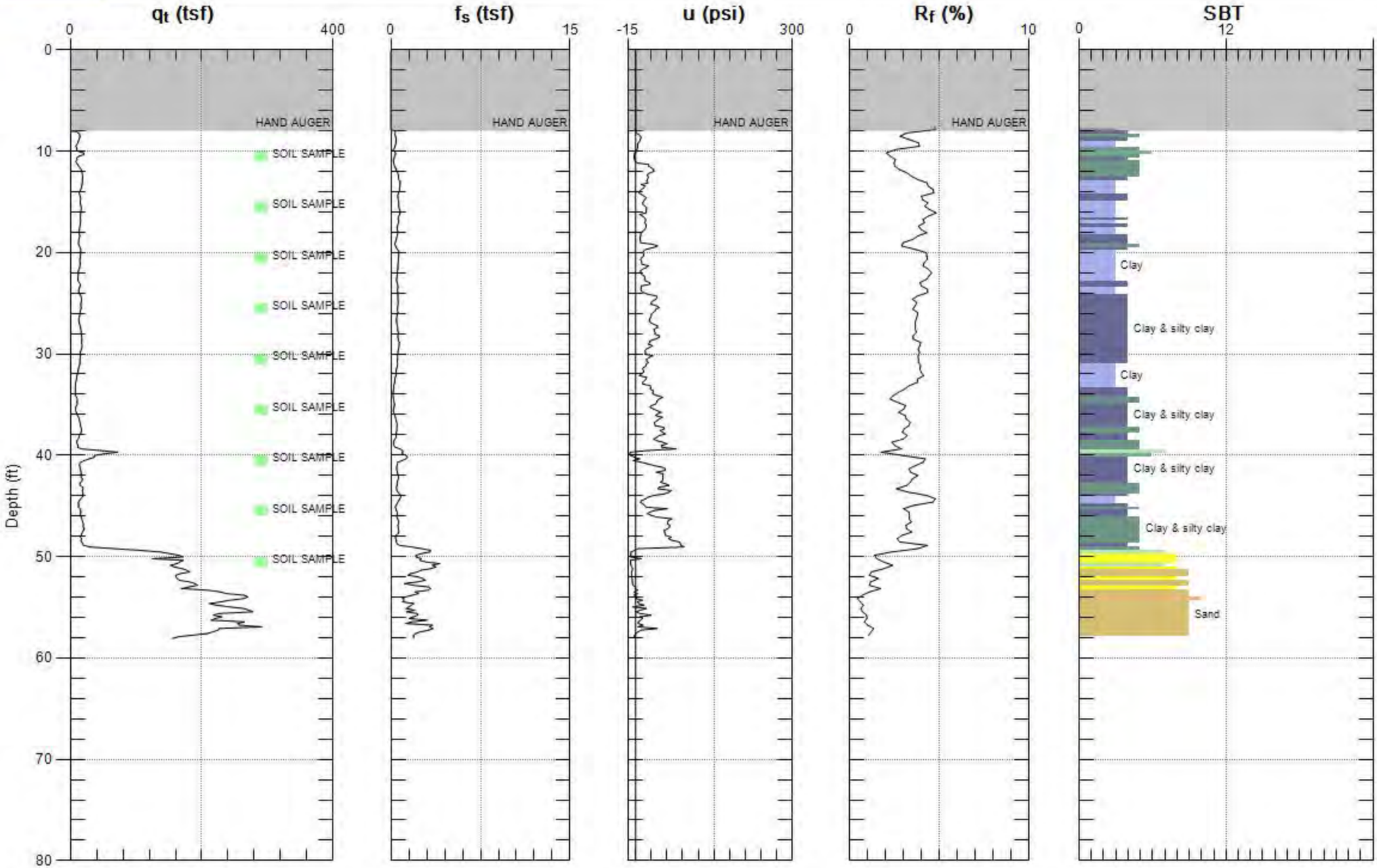
SBT: Soil Behavior Type (Robertson 1990)

GREGG

CRA

Site: CHEVRON 96817
Sounding: CPT-30

Engineer: C.HERNANDEZ
Date: 6/5/2014 02:10



Max. Depth: 58.071 (ft)
Avg. Interval: 0.328 (ft)

SBT: Soil Behavior Type (Robertson 1990)

GREGG

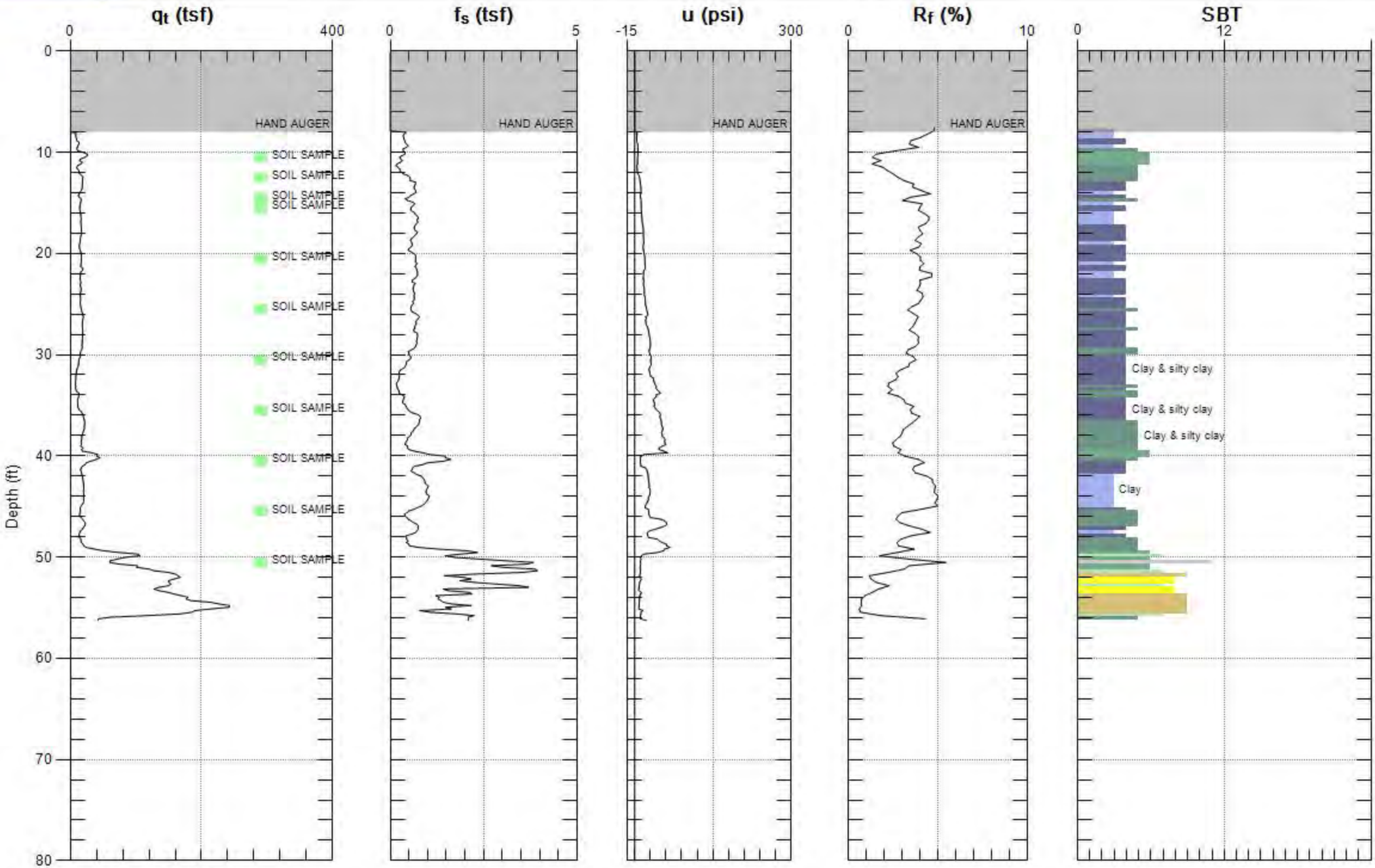
CRA

Site: CHEVRON 96817

Sounding: CPT-31

Engineer: C.HERNANDEZ

Date: 6/6/2014 07:44



Max. Depth: 56.266 (ft)
Avg. Interval: 0.328 (ft)

SBT: Soil Behavior Type (Robertson 1990)

GREGG

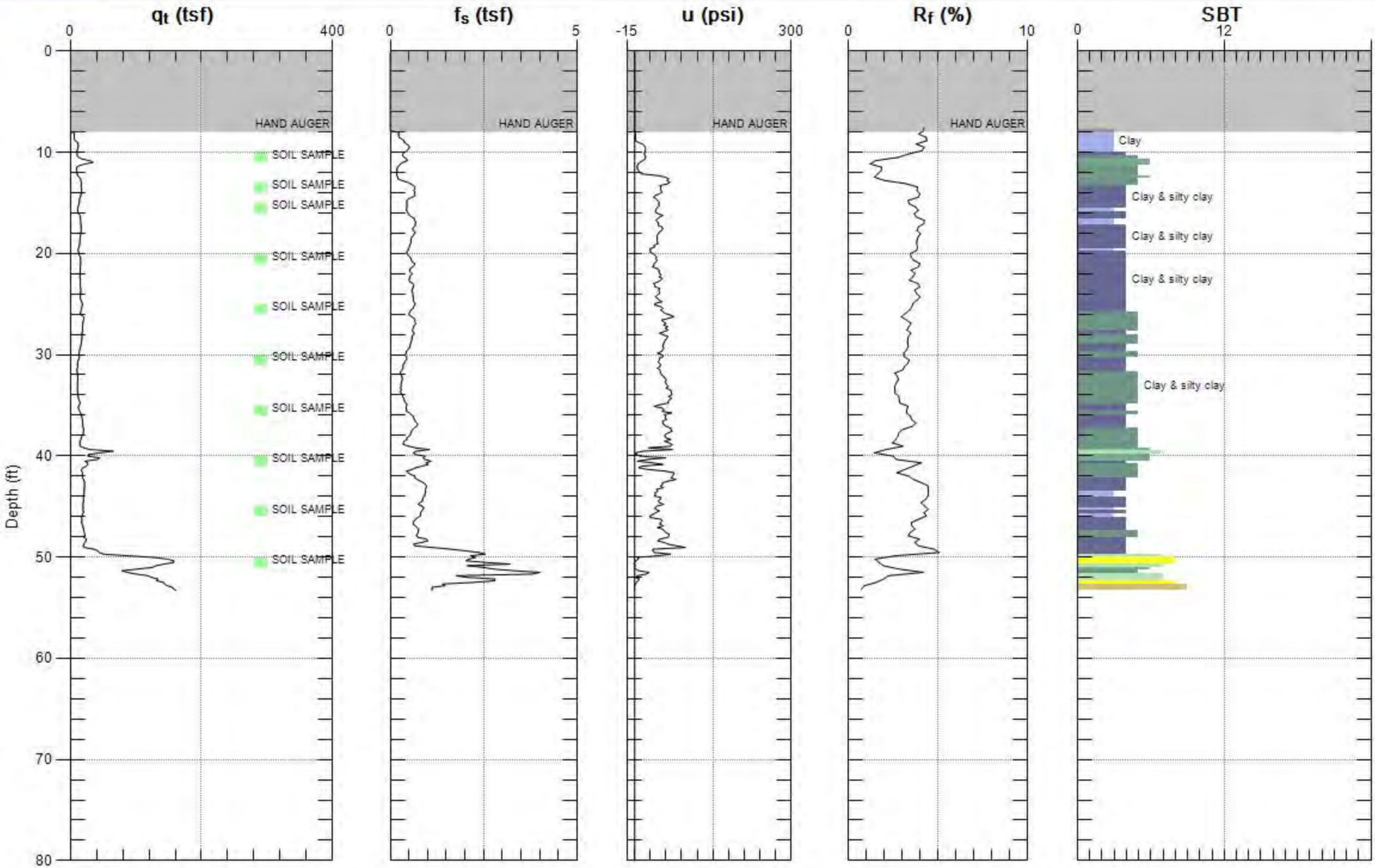
CRA

Site: CHEVRON 96817

Sounding: CPT-32

Engineer: C.HERNANDEZ

Date: 6/6/2014 11:28



Max. Depth: 53.314 (ft)
Avg. Interval: 0.328 (ft)

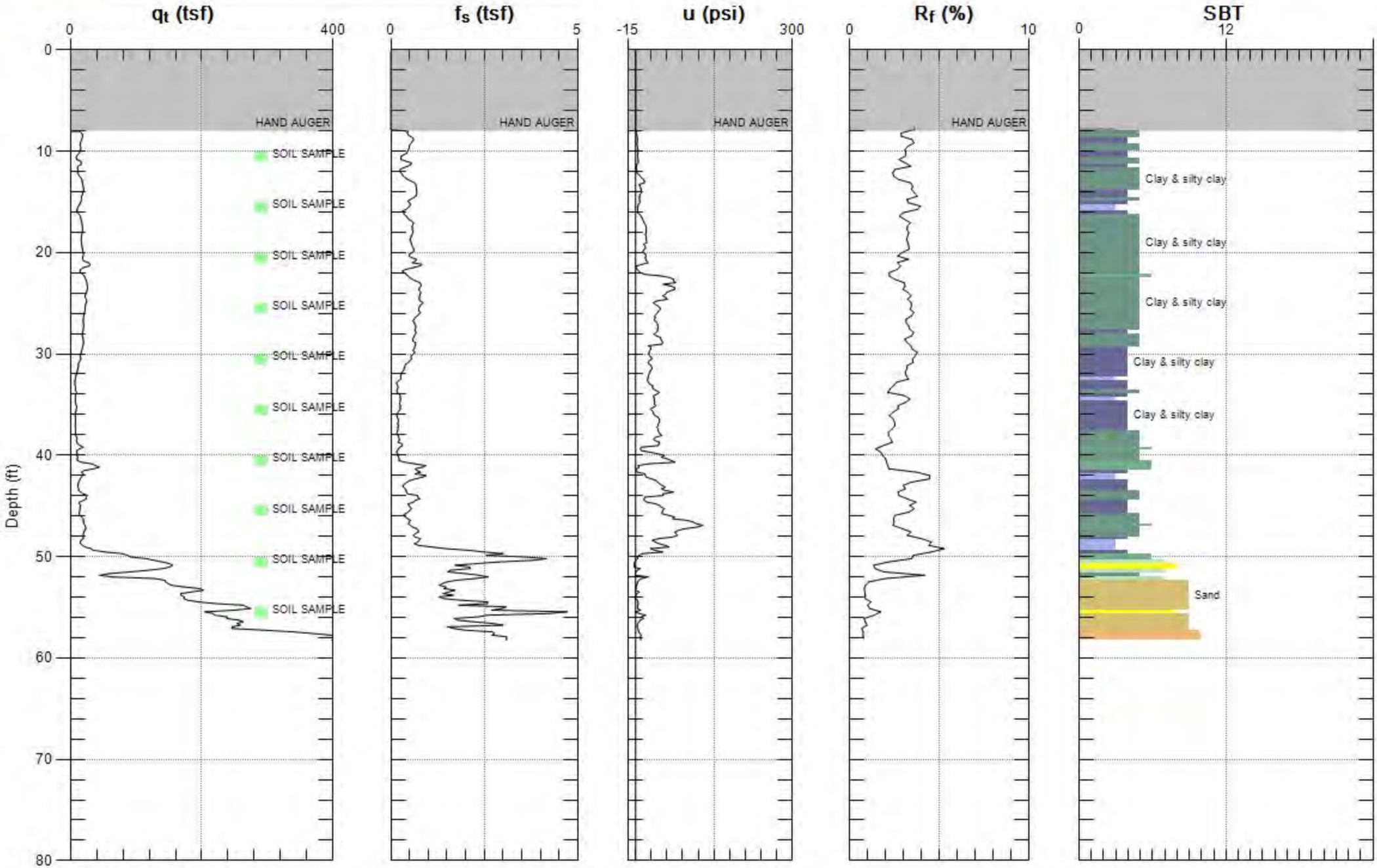
SBT: Soil Behavior Type (Robertson 1990)

GREGG

CRA

Site: CHEVRON 96817
Sounding: CPT-33

Engineer: C.HERNANDEZ
Date: 6/9/2014 08:05



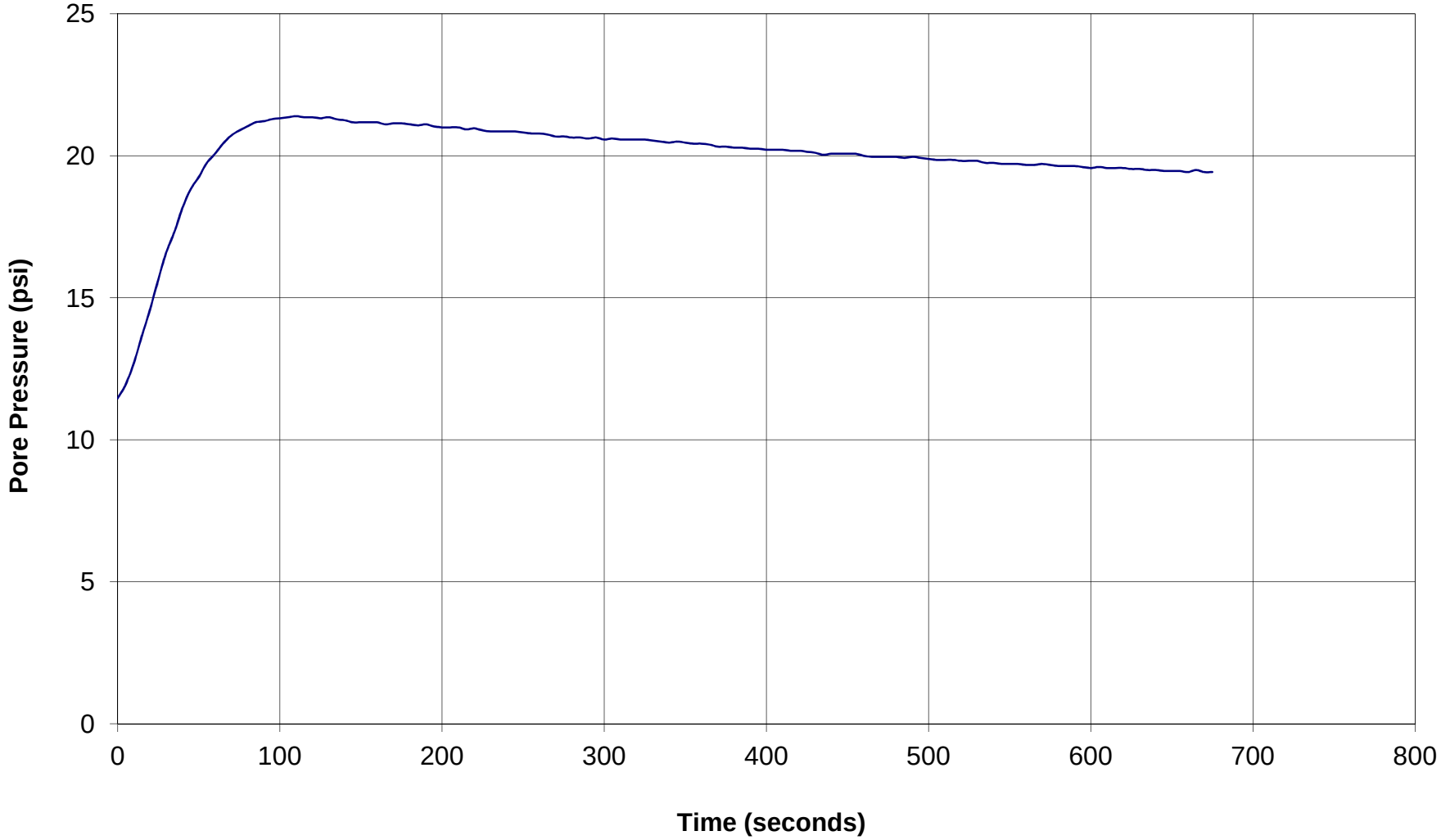
Max. Depth: 58.235 (ft)
Avg. Interval: 0.328 (ft)

SBT: Soil Behavior Type (Robertson 1990)

GREGG DRILLING & TESTING

Pore Pressure Dissipation Test

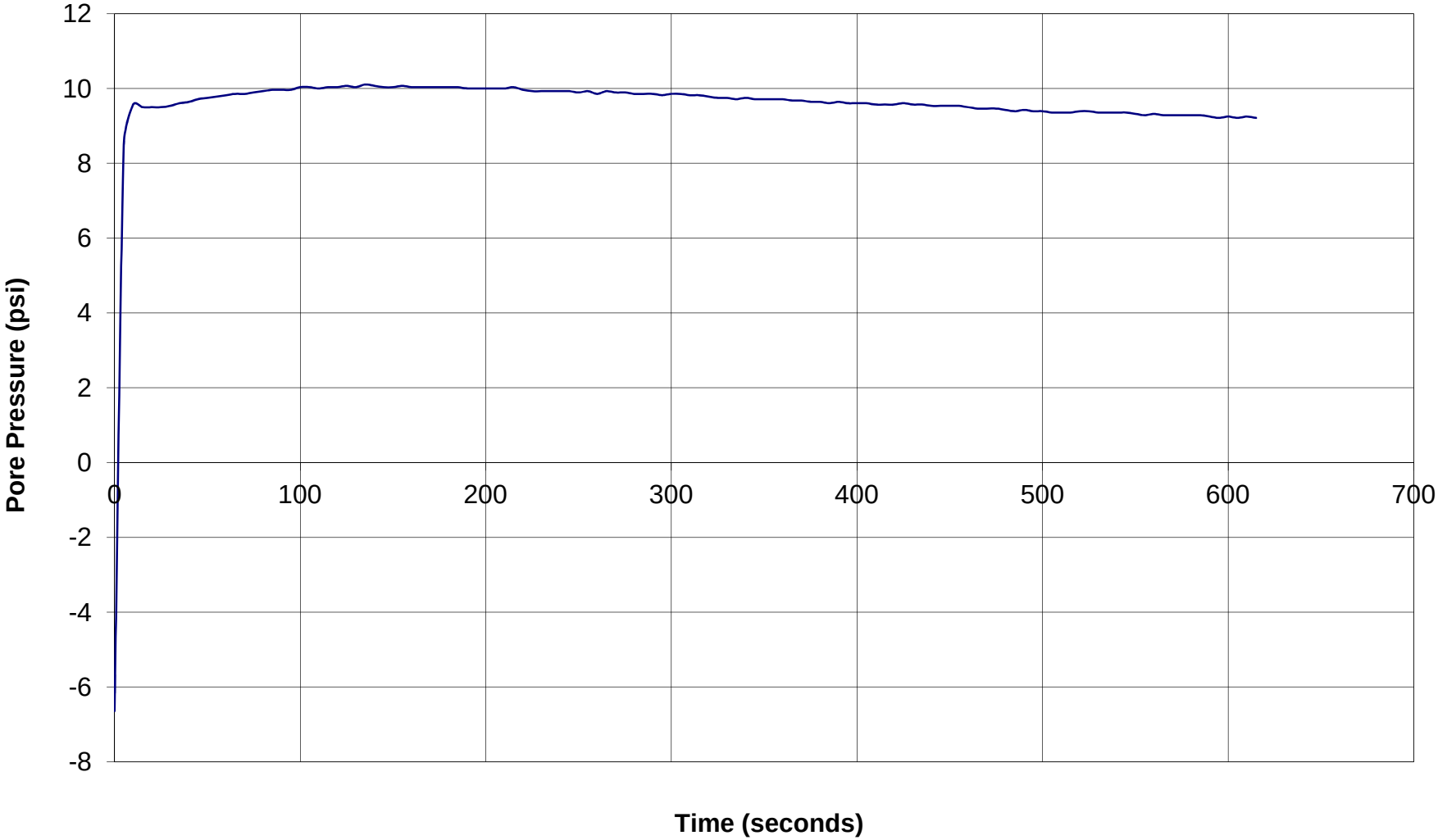
Sounding: CPT-26
Depth: 54.133695
Site: CHEVRON 96817
Engineer: C.HERNANDEZ



GREGG DRILLING & TESTING

Pore Pressure Dissipation Test

Sounding: CPT-30
Depth: 50.0326575
Site: CHEVRON 96817
Engineer: C.HERNANDEZ



APPENDIX F

BORING LOGS

Conestoga Rovers & Associates.
5900 Hollis Street, Suite A
Emeryville, CA 94608
Telephone: 510-420-0700
Fax: 510-420-9170

BORING / WELL LOG

CLIENT NAME	Chevron Products Company	**BORING/WELL NAME**	CPT-21
JOB/SITE NAME	9-6817	**DRILLING STARTED**	16-Jun-14
LOCATION	1705 Contra Costa Boulevard, Pleasant Hill, CA	**DRILLING COMPLETED**	16-Jun-14
PROJECT NUMBER	311741	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Gregg Drilling, C-57 #485165	**GROUND SURFACE ELEVATION**	NA
DRILLING METHOD	Hand Auger / CPT	**TOP OF CASING ELEVATION**	NA
BORING DIAMETER	3-inches	**SCREENED INTERVALS**	NA
LOGGED BY	Belew Yifru	**DEPTH TO WATER (First Encountered)**	NA
REVIEWED BY	C. Hernandez PG8931	**DEPTH TO WATER (Static)**	NA
REMARKS	Hand augered to 8 fbg on 6/12/14. CPT/MIP on 6/4/14. Located south of CPT-12.		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							CONCRETE	0.5	
							FILL (Gravel and Sand mixture)	4.0	
0		CPT-2 1-5		5	CL		**CLAY:** Dark grey; moist; medium estimated plasticity.	8.0	
							See CPT-21 log for continued lithology.		
0		CPT-2 1-10.5		10					
0		CPT-2 1-15		15					
0		CPT-2 1-19.5		20					
0		CPT-2 1-23.5		25					Portland Type I/II
0		CPT-2 1-27.5							
0		CPT-2 1-29		30					
0		CPT-2 1-35.5		35					
0		CPT-2 1-36							
				40					

Continued Next Page

WELL LOG (PID) I:\CHEVRON\3117--\311741 9-6817 PLEASANT HILL\311741-BORING LOGS\311741-GINT\311741-CPT-13 TO SB-34.GPJ DEFAULT.GDT 7/31/14

Conestoga Rovers & Associates.
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Fax: 510-420-9170

BORING / WELL LOG

CLIENT NAME	Chevron Products Company	**BORING/WELL NAME**	CPT-21
JOB/SITE NAME	9-6817	**DRILLING STARTED**	16-Jun-14
LOCATION	1705 Contra Costa Boulevard, Pleasant Hill, CA	**DRILLING COMPLETED**	16-Jun-14

Continued from Previous Page

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
0		CPT-2 1-40.5							
0		CPT-2 1-43.5		45					
0		CPT-2 1-46.5		50					
0		CPT-2 1-51.5						52.0	Bottom of Boring @ 52 fbg

WELL LOG (PID) I:\CHEVRON\3117--\311741 9-6817 PLEASANT HILL\311741-BORING LOGS\311741-GINT\311741-CPT-13 TO SB-34.GPJ DEFAULT.GDT 7/31/14

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BORING / WELL LOG

CLIENT NAME	Chevron Products Company	**BORING/WELL NAME**	CPT-23
JOB/SITE NAME	9-6817	**DRILLING STARTED**	03-Jun-14
LOCATION	1705 Contra Costa Boulevard, Pleasant Hill, CA	**DRILLING COMPLETED**	03-Jun-14
PROJECT NUMBER	311741	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Gregg Drilling, C-57 #485165	**GROUND SURFACE ELEVATION**	NA
DRILLING METHOD	Hand Auger / CPT	**TOP OF CASING ELEVATION**	NA
BORING DIAMETER	3-inches	**SCREENED INTERVALS**	NA
LOGGED BY	Belew Yifru	**DEPTH TO WATER (First Encountered)**	NA ▽
REVIEWED BY	C. Hernandez PG8931	**DEPTH TO WATER (Static)**	NA ▼
REMARKS	Hand augered to 8 fbg on 6/2/14. CPT/MIP on 6/2/14. Located northwest of CPT-14.		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							CONCRETE	0.5	
							FILL (Gravel and Sand mixture)	1.5	
0		CPT-2 3-5		5	CL		**CLAY w/ Silt:** Greyish brown; moist; medium estimated plasticity.	8.0	
							See CPT-23 log for continued lithology.		
9		CPT-2 3-10		10					
0		CPT-2 3-13		15					
0		CPT-2 3-18		20					
0		CPT-2 3-23		25					
6		CPT-2 3-28		30					
670		CPT-2 3-33		35					
0		CPT-2 3-38		40					Portland Type I/II

Continued Next Page

WELL LOG (PID) I:\CHEVRON\3117--\311741 9-6817 PLEASANT HILL\311741-BORING LOGS\311741-GINT\311741-CPT-13 TO SB-34.GPJ DEFAULT.GDT 7/31/14

Conestoga Rovers & Associates.
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BORING / WELL LOG

CLIENT NAME	Chevron Products Company	**BORING/WELL NAME**	CPT-23
JOB/SITE NAME	9-6817	**DRILLING STARTED**	03-Jun-14
LOCATION	1705 Contra Costa Boulevard, Pleasant Hill, CA	**DRILLING COMPLETED**	03-Jun-14

Continued from Previous Page

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
0		CPT-2 3-43		45					
0		CPT-2 3-48		50					
0		CPT-2 3-53		55					
0		CPT-2 3-58		60					
0		CPT-2 3-60							
		CPT-2 3-63		65					
0		CPT-2 3-66							
0		CPT-2 3-69		70					
0		CPT-2 3-73.5						74.0	Bottom of Boring @ 74 fbg

WELL LOG (PID) I:\CHEVRON\3117--\311741 9-6817 PLEASANT HILL\311741-BORING LOGS\311741-GINT\311741-CPT-13 TO SB-34.GPJ DEFAULT.GDT 7/31/14

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BORING / WELL LOG

CLIENT NAME	Chevron Products Company	**BORING/WELL NAME**	CPT-24
JOB/SITE NAME	9-6817	**DRILLING STARTED**	09-Jun-14
LOCATION	1705 Contra Costa Boulevard, Pleasant Hill, CA	**DRILLING COMPLETED**	09-Jun-14
PROJECT NUMBER	311741	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Gregg Drilling, C-57 #485165	**GROUND SURFACE ELEVATION**	NA
DRILLING METHOD	Hand Auger / CPT	**TOP OF CASING ELEVATION**	NA
BORING DIAMETER	3-inches	**SCREENED INTERVALS**	NA
LOGGED BY	Belew Yifru	**DEPTH TO WATER (First Encountered)**	NA
REVIEWED BY	C. Hernandez PG8931	**DEPTH TO WATER (Static)**	NA
REMARKS	Hand augered to 8 fbg on 6/5/14. CPT/MIP 6//14. Located north of CPT-23 at carwash entrance.		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							CONCRETE	0.5	
							FILL (Silt and Silty Sand)	2.5	
							CONCRETE	3.2	
							CLAY: Dark brown; moist; medium estimated plasticity.		
0		CPT-2 4-5		5	CL				
								8.0	
							See CPT-24 log for continued lithology.		
0		CPT-2 4-10		10					
2.0		CPT-2 4-15		15					
0		CPT-2 4-21		20					
0		CPT-2 4-25		25					
0		CPT-2 4-30		30					Portland Type I/II
0		CPT-2 4-33							
0		CPT-2 4-35		35					
				40					

Continued Next Page

WELL LOG (PID) I:\CHEVRON\3117--\311741 9-6817 PLEASANT HILL\311741-BORING LOGS\311741-GINT\311741-CPT-13 TO SB-34.GPJ DEFAULT.GDT 7/31/14

Conestoga Rovers & Associates.
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Emeryville, CA 94608
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Fax: 510-420-9170

BORING / WELL LOG

CLIENT NAME	Chevron Products Company	**BORING/WELL NAME**	CPT-24
JOB/SITE NAME	9-6817	**DRILLING STARTED**	09-Jun-14
LOCATION	1705 Contra Costa Boulevard, Pleasant Hill, CA	**DRILLING COMPLETED**	09-Jun-14

Continued from Previous Page

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
0		CPT-2 4-40							
		CPT-2 4-45		45					
0		CPT-2 4-50		50					
0		CPT-2 4-55		55					
0		CPT-2 4-60		60				60.5	Bottom of Boring @ 60.5 fbg

WELL LOG (PID) I:\CHEVRON\3117--\311741 9-6817 PLEASANT HILL\311741-BORING LOGS\311741-GINT\311741-CPT-13 TO SB-34.GPJ DEFAULT.GDT 7/31/14

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Fax: 510-420-9170

BORING / WELL LOG

CLIENT NAME	Chevron Products Company	**BORING/WELL NAME**	CPT-25
JOB/SITE NAME	9-6817	**DRILLING STARTED**	10-Jun-14
LOCATION	1705 Contra Costa Boulevard, Pleasant Hill, CA	**DRILLING COMPLETED**	10-Jun-14
PROJECT NUMBER	311741	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Gregg Drilling, C-57 #485165	**GROUND SURFACE ELEVATION**	NA
DRILLING METHOD	Hand Auger / CPT	**TOP OF CASING ELEVATION**	NA
BORING DIAMETER	3-inches	**SCREENED INTERVALS**	NA
LOGGED BY	A Beerling	**DEPTH TO WATER (First Encountered)**	NA
REVIEWED BY	C. Hernandez PG8931	**DEPTH TO WATER (Static)**	NA
REMARKS	Hand augered to 8 fbg on 6/10/14. CPT/MIP on 6/6/14. Located northwest of trash enclosure/carwash.		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							CONCRETE	0.5	
							FILL (Silt)	2.5	
							CONCRETE	3.0	
					SM		**Silty SAND:** Yellow brown; dry; fine to medium sand; low estimated plasticity.	4.0	
0		CPT-2 5-5		5	CL		**CLAY:** Dark brown; dry; stiff; medium estimated plasticity.	8.0	
							See CPT-25 log for continued lithology.		
0		CPT-2 5-10		10			Water encountered @ approximately 4.5 fbg.		
0		CPT-2 5-13		15					
0		CPT-2 5-18		20					
0		CPT-2 5-23		25					Portland Type I/II
0		CPT-2 5-28		30					
0		CPT-2 5-33		35					
0		CPT-2 5-38		40					

Continued Next Page

WELL LOG (PID) I:\CHEVRON\3117--\311741 9-6817 PLEASANT HILL\311741-BORING LOGS\311741-GINT\311741-CPT-13 TO SB-34.GPJ DEFAULT.GDT 7/31/14

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BORING / WELL LOG

CLIENT NAME	Chevron Products Company	**BORING/WELL NAME**	CPT-25
JOB/SITE NAME	9-6817	**DRILLING STARTED**	10-Jun-14
LOCATION	1705 Contra Costa Boulevard, Pleasant Hill, CA	**DRILLING COMPLETED**	10-Jun-14

Continued from Previous Page

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
0		CPT-2 5-43		45					
0		CPT-2 5-48		50			No recovery @ 50 fbg.	50.5	Bottom of Boring @ 50.5 fbg

WELL LOG (PID) I:\CHEVRON\3117--\311741 9-6817 PLEASANT HILL\311741-BORING LOGS\311741-GINT\311741-CPT-13 TO SB-34.GPJ DEFAULT.GDT 7/31/14

Conestoga Rovers & Associates.
5900 Hollis Street, Suite A
Emeryville, CA 94608
Telephone: 510-420-0700
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BORING / WELL LOG

CLIENT NAME	Chevron Products Company	**BORING/WELL NAME**	CPT-26
JOB/SITE NAME	9-6817	**DRILLING STARTED**	11-Jun-14
LOCATION	1705 Contra Costa Boulevard, Pleasant Hill, CA	**DRILLING COMPLETED**	11-Jun-14
PROJECT NUMBER	311741	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Gregg Drilling, C-57 #485165	**GROUND SURFACE ELEVATION**	NA
DRILLING METHOD	Hand Auger / CPT	**TOP OF CASING ELEVATION**	NA
BORING DIAMETER	3-inches	**SCREENED INTERVALS**	NA
LOGGED BY	A Beerling	**DEPTH TO WATER (First Encountered)**	NA ▽
REVIEWED BY	C. Hernandez PG8931	**DEPTH TO WATER (Static)**	NA ▼
REMARKS	Hand augered to 8 fbg on 6/11/14. CPT/MIP on 6/4/14. Located east of CPT-13, north of trash enclosure.		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							CONCRETE	0.5	
							FILL (Gravel, Sand, and Silt mixture)	3.5	
							FILL (Silty Sand)	4.0	
0		CPT-2 6-5		5	CL		**CLAY:** Dark brown/black; moist; medium estimated plasticity.		
							@ 7.5 fbg: light brown See CPT-26 log for continued lithology.	8.0	
0		CPT-2 6-10		10					
0		CPT-2 6-12							
0		CPT-2 6-15		15					
0		CPT-2 6-20		20					
0		CPT-2 6-25		25					Portland Type I/II
0		CPT-2 6-30		30					
0		CPT-2 6-35		35					
				40					

Continued Next Page

WELL LOG (PID) I:\CHEVRON\3117--\311741 9-6817 PLEASANT HILL\311741-BORING LOGS\311741-GINT\311741-CPT-13 TO SB-34.GPJ DEFAULT.GDT 7/31/14

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BORING / WELL LOG

CLIENT NAME	Chevron Products Company	**BORING/WELL NAME**	CPT-26
JOB/SITE NAME	9-6817	**DRILLING STARTED**	11-Jun-14
LOCATION	1705 Contra Costa Boulevard, Pleasant Hill, CA	**DRILLING COMPLETED**	11-Jun-14

Continued from Previous Page

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
0		CPT-2 6-40							
0		CPT-2 6-45		45					
0		CPT-2 6-50		50				50.5	Bottom of Boring @ 50.5 fbg

WELL LOG (PID) I:\CHEVRON\3117--\311741 9-6817 PLEASANT HILL\311741-BORING LOGS\311741-GINT\311741-CPT-13 TO SB-34.GPJ DEFAULT.GDT 7/31/14

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BORING / WELL LOG

CLIENT NAME	Chevron Products Company	**BORING/WELL NAME**	CPT-27
JOB/SITE NAME	9-6817	**DRILLING STARTED**	12-Jun-14
LOCATION	1705 Contra Costa Boulevard, Pleasant Hill, CA	**DRILLING COMPLETED**	12-Jun-14
PROJECT NUMBER	311741	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Gregg Drilling, C-57 #485165	**GROUND SURFACE ELEVATION**	NA
DRILLING METHOD	Hand Auger / CPT	**TOP OF CASING ELEVATION**	NA
BORING DIAMETER	3-inches	**SCREENED INTERVALS**	NA
LOGGED BY	A Beerling	**DEPTH TO WATER (First Encountered)**	NA
REVIEWED BY	C. Hernandez PG8931	**DEPTH TO WATER (Static)**	NA
REMARKS	Hand augered to 8 fbg on 6/11/14. CPT/MIP on 6/5/14. Located east of CPT-13, near carwash vacuum.		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							CONCRETE	0.5	
							FILL (Gravel and Sand mixture)	3.0	
							FILL (Silty Sand)	4.0	
0		CPT-2 7-5		5	CL		**CLAY:** Dark brown/black; moist; medium estimated plasticity.	8.0	
							See CPT-27 log for continued lithology.		
0		CPT-2 7-10		10					
0		CPT-2 7-15		15					
0		CPT-2 7-20		20					
0		CPT-2 7-21							
0		CPT-2 7-23							
0		CPT-2 7-25		25					Portland Type I/II
0		CPT-2 7-30		30					
0		CPT-2 7-35		35					
				40					

Continued Next Page

WELL LOG (PID) I:\CHEVRON\3117--\311741 9-6817 PLEASANT HILL\311741-BORING LOGS\311741-GINT\311741-CPT-13 TO SB-34.GPJ DEFAULT.GDT 7/31/14

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BORING / WELL LOG

CLIENT NAME	Chevron Products Company	**BORING/WELL NAME**	CPT-27
JOB/SITE NAME	9-6817	**DRILLING STARTED**	12-Jun-14
LOCATION	1705 Contra Costa Boulevard, Pleasant Hill, CA	**DRILLING COMPLETED**	12-Jun-14

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PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							No recovery @ 40 fbg.		
0		CPT-2 7-45		45					
		CPT-2 7-47							
		CPT-2 7-50		50				50.5	Bottom of Boring @ 50.5 fbg

WELL LOG (PID) I:\CHEVRON\3117--\311741 9-6817 PLEASANT HILL\311741-BORING LOGS\311741-GINT\311741-CPT-13 TO SB-34.GPJ DEFAULT.GDT 7/31/14

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BORING / WELL LOG

CLIENT NAME	Chevron Products Company	**BORING/WELL NAME**	CPT-28
JOB/SITE NAME	9-6817	**DRILLING STARTED**	16-Jun-14
LOCATION	1705 Contra Costa Boulevard, Pleasant Hill, CA	**DRILLING COMPLETED**	16-Jun-14
PROJECT NUMBER	311741	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Gregg Drilling, C-57 #485165	**GROUND SURFACE ELEVATION**	NA
DRILLING METHOD	Hand Auger / CPT	**TOP OF CASING ELEVATION**	NA
BORING DIAMETER	3-inches	**SCREENED INTERVALS**	NA
LOGGED BY	A Beerling	**DEPTH TO WATER (First Encountered)**	NA
REVIEWED BY	C. Hernandez PG8931	**DEPTH TO WATER (Static)**	NA
REMARKS	Hand augered to 8 fbg on 6/12/14. CPT/MIP on 6/4/14 Located at southeast side of driveway (carwash exit).		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							CONCRETE	0.5	
							FILL (Gravel and Sand mixture)	3.0	
							FILL (Silty Sand):	4.0	
0		CPT-2 8-5		5	CL		**CLAY:** Dark brown; moist; medium estimated plasticity.	8.0	
							See CPT-28 log for continued lithology.		
0		CPT-2 8-10.5		10					
0.7		CPT-2 8-15.5		15					
0.4		CPT-2 8-19.5		20					
0.1		CPT-2 8-23.5		25					Portland Type I/II
0.1		CPT-2 8-27.5		30					
0.7		CPT-2 8-31.5		35					
0.4		CPT-2 8-35.5		40					

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WELL LOG (PID) I:\CHEVRON\3117--\311741 9-6817 PLEASANT HILL\311741-BORING LOGS\311741-GINT\311741-CPT-13 TO SB-34.GPJ DEFAULT.GDT 7/31/14

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BORING / WELL LOG

CLIENT NAME	Chevron Products Company	**BORING/WELL NAME**	CPT-28
JOB/SITE NAME	9-6817	**DRILLING STARTED**	16-Jun-14
LOCATION	1705 Contra Costa Boulevard, Pleasant Hill, CA	**DRILLING COMPLETED**	16-Jun-14

Continued from Previous Page

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
0.7		CPT-2 8-39.5							
0.1		CPT-2 8-43.5		45					
0.7		CPT-2 8-47.5		50					
0.1		CPT-2 8-50.5						51.0	Bottom of Boring @ 51 fbg

WELL LOG (PID) I:\CHEVRON\3117--\311741 9-6817 PLEASANT HILL\311741-BORING LOGS\311741-GINT\311741-CPT-13 TO SB-34.GPJ DEFAULT.GDT 7/31/14

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BORING / WELL LOG

CLIENT NAME	Chevron Products Company	**BORING/WELL NAME**	CPT-29
JOB/SITE NAME	9-6817	**DRILLING STARTED**	18-Jun-14
LOCATION	1705 Contra Costa Boulevard, Pleasant Hill, CA	**DRILLING COMPLETED**	18-Jun-14
PROJECT NUMBER	311741	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Gregg Drilling, C-57 #485165	**GROUND SURFACE ELEVATION**	NA
DRILLING METHOD	Hand Auger / CPT	**TOP OF CASING ELEVATION**	NA
BORING DIAMETER	3-inches	**SCREENED INTERVALS**	NA
LOGGED BY	A Beerling	**DEPTH TO WATER (First Encountered)**	NA
REVIEWED BY	C. Hernandez PG8931	**DEPTH TO WATER (Static)**	NA
REMARKS	Hand augered to 8 fbg on 6/12/14. CPT/MIP on 6/5/14. Located south of CPT-11 at northeast side of southern driveway.		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							CONCRETE	0.5	
							FILL (Gravel and Sand mixture)	2.0	
0		CPT-2 9-5		5	CL		**CLAY:** Dark grey; moist; medium estimated plasticity.	8.0	
							See CPT-29 log for continued lithology.		
0		CPT-2 9-9.5		10					
0		CPT-2 9-14.5		15					
0		CPT-2 9-19.5		20					
0		CPT-2 9-24.5		25					Portland Type I/II
0		CPT-2 9-29.5		30					
0		CPT-2 9-34.5		35					
				40					

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WELL LOG (PID) I:\CHEVRON\3117--\311741 9-6817 PLEASANT HILL\311741-BORING LOGS\311741-GINT\311741-CPT-13 TO SB-34.GPJ DEFAULT.GDT 7/31/14

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BORING / WELL LOG

CLIENT NAME	Chevron Products Company	**BORING/WELL NAME**	CPT-29
JOB/SITE NAME	9-6817	**DRILLING STARTED**	18-Jun-14
LOCATION	1705 Contra Costa Boulevard, Pleasant Hill, CA	**DRILLING COMPLETED**	18-Jun-14

Continued from Previous Page

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
0		CPT-2 9-39.5							
0		CPT-2 9-44.5		45					
0		CPT-2 9-49.5		50				50.0	Bottom of Boring @ 50 fbg

WELL LOG (PID) I:\CHEVRON\3117--\311741 9-6817 PLEASANT HILL\311741-BORING LOGS\311741-GINT\311741-CPT-13 TO SB-34.GPJ DEFAULT.GDT 7/31/14

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BORING / WELL LOG

CLIENT NAME	Chevron Products Company	**BORING/WELL NAME**	CPT-30
JOB/SITE NAME	9-6817	**DRILLING STARTED**	13-Jun-14
LOCATION	1705 Contra Costa Boulevard, Pleasant Hill, CA	**DRILLING COMPLETED**	13-Jun-14
PROJECT NUMBER	311741	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Gregg Drilling, C-57 #485165	**GROUND SURFACE ELEVATION**	NA
DRILLING METHOD	Hand Auger / CPT	**TOP OF CASING ELEVATION**	NA
BORING DIAMETER	3-inches	**SCREENED INTERVALS**	NA
LOGGED BY	A Beerling	**DEPTH TO WATER (First Encountered)**	NA
REVIEWED BY	C. Hernandez PG8931	**DEPTH TO WATER (Static)**	NA
REMARKS	Hand augered to 8 fbg on 6/11/14. CPT/MIP on 6/5/14. Located south of east dispenser.		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							CONCRETE	0.5	
							FILL (Gravel and Sand mixure)	2.5	
0		CPT-3 0-5		5	CL		**CLAY:** Black; moist; medium estimated plasticity.	8.0	
							See CPT-30 log for continued lithology.		
0		CPT-3 0-10		10					
0		CPT-3 0-15		15					
0		CPT-3 0-20		20					
0		CPT-3 0-25		25					Portland Type I/II
0		CPT-3 0-30		30					
0		CPT-3 0-35		35					
				40					

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WELL LOG (PID) I:\CHEVRON\3117--\311741 9-6817 PLEASANT HILL\311741-BORING LOGS\311741-GINT\311741-CPT-13 TO SB-34.GPJ DEFAULT.GDT 7/31/14

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BORING / WELL LOG

CLIENT NAME	Chevron Products Company	**BORING/WELL NAME**	CPT-30
JOB/SITE NAME	9-6817	**DRILLING STARTED**	13-Jun-14
LOCATION	1705 Contra Costa Boulevard, Pleasant Hill, CA	**DRILLING COMPLETED**	13-Jun-14

Continued from Previous Page

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
0		CPT-3 0-40							
0		CPT-3 0-45		45					
0		CPT-3 0-50		50				50.5	Bottom of Boring @ 50.5 fbg

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BORING / WELL LOG

CLIENT NAME	Chevron Products Company	**BORING/WELL NAME**	CPT-31
JOB/SITE NAME	9-6817	**DRILLING STARTED**	12-Jun-14
LOCATION	1705 Contra Costa Boulevard, Pleasant Hill, CA	**DRILLING COMPLETED**	12-Jun-14
PROJECT NUMBER	311741	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Gregg Drilling, C-57 #485165	**GROUND SURFACE ELEVATION**	NA
DRILLING METHOD	Hand Auger / CPT	**TOP OF CASING ELEVATION**	NA
BORING DIAMETER	3-inches	**SCREENED INTERVALS**	NA
LOGGED BY	A Beerling	**DEPTH TO WATER (First Encountered)**	NA
REVIEWED BY	C. Hernandez PG8931	**DEPTH TO WATER (Static)**	NA
REMARKS	Hand augered to 8 fbg on 6/11/14. CPT/MIP on 6/6/14. Located north of CPT-13.		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							CONCRETE	0.5	
							FILL (Gravel and Sand mixture)	2.5	
0		CPT-3 1-5		5	CL		**CLAY:** Black; moist; medium estimated plasticity.	8.0	
							See CPT-31 log for continued lithology.		
1		CPT-3 1-10		10					
0		CPT-3 1-12							
2		CPT-3 1-14		15					
0		CPT-3 1-16							
0		CPT-3 1-21		20					
0		CPT-3 1-26		25					Portland Type I/II
0		CPT-3 1-31		30					
0		CPT-3 1-35		35					
				40					

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WELL LOG (PID) I:\CHEVRON\3117--\311741 9-6817 PLEASANT HILL\311741-BORING LOGS\311741-GINT\311741-CPT-13 TO SB-34.GPJ DEFAULT.GDT 7/31/14

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BORING / WELL LOG

CLIENT NAME	Chevron Products Company	**BORING/WELL NAME**	CPT-31
JOB/SITE NAME	9-6817	**DRILLING STARTED**	12-Jun-14
LOCATION	1705 Contra Costa Boulevard, Pleasant Hill, CA	**DRILLING COMPLETED**	12-Jun-14

Continued from Previous Page

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							No recovery @ 40 fbg.		
0		CPT-3 1-45		45					
0		CPT-3 1-50		50				50.5	Bottom of Boring @ 50.5 fbg

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BORING / WELL LOG

CLIENT NAME	Chevron Products Company	**BORING/WELL NAME**	CPT-32
JOB/SITE NAME	9-6817	**DRILLING STARTED**	11-Jun-14
LOCATION	1705 Contra Costa Boulevard, Pleasant Hill, CA	**DRILLING COMPLETED**	11-Jun-14
PROJECT NUMBER	311741	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Gregg Drilling, C-57 #485165	**GROUND SURFACE ELEVATION**	NA
DRILLING METHOD	Hand Auger / CPT	**TOP OF CASING ELEVATION**	NA
BORING DIAMETER	3-inches	**SCREENED INTERVALS**	NA
LOGGED BY	A Beerling	**DEPTH TO WATER (First Encountered)**	NA
REVIEWED BY	C. Hernandez PG8931	**DEPTH TO WATER (Static)**	NA
REMARKS	Hand augered to 8 fbg on 6/11/14. CP/MIP on 6/6/14. Located southeast of station building.		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							CONCRETE	0.5	
							FILL (Gravel and Sand mixture)	3.0	
0		CPT-3 2-5		5	CL		**CLAY:** Black; moist; medium estimated plasticity.	8.0	
							See CPT-32 log for continued lithology.		
1		CPT-3 2-11		10					
0		CPT-3 2-14		15					
0		CPT-3 2-16							
0		CPT-3 2-21		20					
0		CPT-3 2-26		25					Portland Type I/II
0		CPT-3 2-31		30					
0		CPT-3 2-36		35					
				40					

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WELL LOG (PID) I:\CHEVRON\3117--\311741 9-6817 PLEASANT HILL\311741-BORING LOGS\311741-GINT\311741-CPT-13 TO SB-34.GPJ DEFAULT.GDT 7/31/14

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BORING / WELL LOG

CLIENT NAME	Chevron Products Company	**BORING/WELL NAME**	CPT-32
JOB/SITE NAME	9-6817	**DRILLING STARTED**	11-Jun-14
LOCATION	1705 Contra Costa Boulevard, Pleasant Hill, CA	**DRILLING COMPLETED**	11-Jun-14

Continued from Previous Page

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
0		CPT-3 2-40							
				45					
0		CPT-3 2-46							
0		CPT-3 2-50		50				50.5	Bottom of Boring @ 50.5 fbg

WELL LOG (PID) I:\CHEVRON\3117--\311741 9-6817 PLEASANT HILL\311741-BORING LOGS\311741-GINT\311741-CPT-13 TO SB-34.GPJ DEFAULT.GDT 7/31/14

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BORING / WELL LOG

CLIENT NAME	Chevron Products Company	**BORING/WELL NAME**	CPT-33
JOB/SITE NAME	9-6817	**DRILLING STARTED**	10-Jun-14
LOCATION	1705 Contra Costa Boulevard, Pleasant Hill, CA	**DRILLING COMPLETED**	10-Jun-14
PROJECT NUMBER	311741	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Gregg Drilling, C-57 #485165	**GROUND SURFACE ELEVATION**	NA
DRILLING METHOD	Hand Auger / CPT	**TOP OF CASING ELEVATION**	NA
BORING DIAMETER	3-inches	**SCREENED INTERVALS**	NA
LOGGED BY	A Beerling	**DEPTH TO WATER (First Encountered)**	NA
REVIEWED BY	C. Hernandez PG8931	**DEPTH TO WATER (Static)**	NA
REMARKS	Hand augered to 8 fbg on 6/5/14. CPT/MIP on 6/9/14. Located south of station building.		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							CONCRETE	0.5	
							FILL (Gravel and Sand mixture)	2.5	
0		CPT-3 3-5		5	CL		**CLAY:** Black; moist; medium estimated plasticity.	8.0	
							See CPT-33 log for continued lithology.		
0		CPT-3 3-10		10					
0		CPT-3 3-15		15					
0		CPT-3 3-20.5		20					
0		CPT-3 3-25		25					Portland Type I/II
0		CPT-3 3-30		30					
0		CPT-3 3-35		35					
				40					

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WELL LOG (PID) I:\CHEVRON\3117--\311741 9-6817 PLEASANT HILL\311741-BORING LOGS\311741-GINT\311741-CPT-13 TO SB-34.GPJ DEFAULT.GDT 7/31/14

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BORING / WELL LOG

CLIENT NAME	Chevron Products Company	**BORING/WELL NAME**	CPT-33
JOB/SITE NAME	9-6817	**DRILLING STARTED**	10-Jun-14
LOCATION	1705 Contra Costa Boulevard, Pleasant Hill, CA	**DRILLING COMPLETED**	10-Jun-14

Continued from Previous Page

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
0		CPT-3 3-40							
0		CPT-3 3-45		45					
0		CPT-3 3-50		50					
0		CPT-3 3-55		55				55.5	Bottom of Boring @ 55.5 fbg

WELL LOG (PID) I:\CHEVRON\3117--\311741 9-6817 PLEASANT HILL\311741-BORING LOGS\311741-GINT\311741-CPT-13 TO SB-34.GPJ DEFAULT.GDT 7/31/14

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BORING / WELL LOG

CLIENT NAME	Chevron Products Company	**BORING/WELL NAME**	SB-22 (CPT-22)
JOB/SITE NAME	9-6817	**DRILLING STARTED**	17-Jun-14
LOCATION	1705 Contra Costa Boulevard, Pleasant Hill, CA	**DRILLING COMPLETED**	17-Jun-14
PROJECT NUMBER	311741	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Gregg Drilling, C-57 #485165	**GROUND SURFACE ELEVATION**	NA
DRILLING METHOD	Hand Auger/Direct Push	**TOP OF CASING ELEVATION**	NA
BORING DIAMETER	3-inches	**SCREENED INTERVALS**	NA
LOGGED BY	A Beerling	**DEPTH TO WATER (First Encountered)**	NA ▽
REVIEWED BY	C. Hernandez PG8931	**DEPTH TO WATER (Static)**	NA ▼
REMARKS	0-8 fbg hand augered; located at carwash entrance, southeast of CPT-23.		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							CONCRETE: 6 inches	0.5	
							FILL (Gravely SAND):	1.5	
0.0		SB-22 -5		5	CL		**CLAY:** Grey-brown; moist; medium estimated plasticity.	8.0	
0.1		SB-22 -9.5		10	ML		**SILT:** Moist; soft; medium estimated plasticity.	14.0	
0.0		SB-22 -14.5		15	CL		**CLAY:** Dark brown; moist; stiff; increase in silt content with depth; medium estimated plasticity.		
0.4		SB-22 -19.5		20					
0.0		SB-22 -24.5		25					Portland Type I/II
0.0		SB-22 -29		30				30.0	
0.0		SB-22 -34.5		35	ML		**SILT:** Light brown; moist; soft; moisture decreases at depth and clay content increases at depth; medium estimated plasticity.	39.0	
				40			**SILT w/ sand:** Grey; moist; soft; medium estimated	40.0	

Continued Next Page

WELL LOG (PID) I:\CHEVRON\3117--\311741 9-6817 PLEASANT HILL\311741-BORING LOGS\311741-GINT\311741-CPT-13 TO SB-34.GPJ DEFAULT.GDT 7/31/14

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BORING / WELL LOG

CLIENT NAME	Chevron Products Company	**BORING/WELL NAME**	SB-22 (CPT-22)
JOB/SITE NAME	9-6817	**DRILLING STARTED**	17-Jun-14
LOCATION	1705 Contra Costa Boulevard, Pleasant Hill, CA	**DRILLING COMPLETED**	17-Jun-14

Continued from Previous Page

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
0.0		SB-22 -39.5			ML		plasticity.	41.0	
					ML		**SILT:** Grey; moist; soft; medium estimated plasticity. **CLAY:** Grey; moist; stiff; medium estimated plasticity.		
					CL				
0.0		SB-22 -44						45.0	
0.0		SB-22 -45		45	SM		**Silty SAND:** Grey, moist; non-plastic; traces of fine gravel.	45.5	
					ML		**Sandy SILT:** Grey; moist; grades into silt with less sand and increase in clay content with depth; low estimated plasticity.		
0.0		SB-22 -49.5		50			@ 49 fbg: stiff; medium estimated plasticity	50.0	Bottom of Boring @ 50 fbg

NOTES:
1) Silt zones were more moist than clay.
2) Flowing sands at approximately 45 fbg; groundwater rose up to shallow depth in rods (approx. 20 fbg).

WELL LOG (PID) I:\CHEVRON\3117--\311741 9-6817 PLEASANT HILL\311741-BORING LOGS\311741-GINT\311741-CPT-13 TO SB-34.GPJ DEFAULT.GDT 7/31/14

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BORING / WELL LOG

CLIENT NAME	Chevron Products Company	**BORING/WELL NAME**	SB-34
JOB/SITE NAME	9-6817	**DRILLING STARTED**	17-Jun-14
LOCATION	1705 Contra Costa Boulevard, Pleasant Hill, CA	**DRILLING COMPLETED**	17-Jun-14
PROJECT NUMBER	311741	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Gregg Drilling, C-57 #485165	**GROUND SURFACE ELEVATION**	NA
DRILLING METHOD	Hand Auger/Direct Push	**TOP OF CASING ELEVATION**	NA
BORING DIAMETER	3-inches	**SCREENED INTERVALS**	NA
LOGGED BY	A Beerling	**DEPTH TO WATER (First Encountered)**	NA ▽
REVIEWED BY	C. Hernandez PG8931	**DEPTH TO WATER (Static)**	NA ▼
REMARKS	0-8 fbg hand augered; located in unlandscaped area southwest of carwash, south of CPT-23.		

PID (ppm)	BLOW COUNTS	SAMPLE ID	DEPTH (fbg)	U.S.C.S.	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)
					FILL (Silty SAND w/ Gravel):	2.0
8.4		SB-34 -5	5	CL	**CLAY:** Dark Brown; dry; stiff; increase in silt content with depth; medium estimated plasticity.	8.0
0.0		SB-34 -9.5	10	ML	**Sandy SILT:** Grey; moist; soft; low estimated plasticity.	13.5
0.1		SB-34 -14.5	15	CL	**CLAY:** Brown; moist; stiff; becomes hard at depth; medium estimated plasticity.	
0.1		SB-34 -19.5	20			
0.4		SB-34 -24.5	25		@ 24 fbg: CLAY with sand @ 25 fbg: decrease in sand content	28.5
0.4		SB-34 -29.5	30	ML	**SILT:** Light brown; moist; stiff; medium estimated plasticity. @ 30.5 fbg: Sandy SILT; soft, fine sand @ 32.5 fbg: SILT; stiff, w/ clay	
0.7		SB-34 -34.5	35		@ 35 fbg: SILT; grey, soft, w/ fine-medium sand @ 36 fbg: SILT; stiff	
			40		@ 39 fbg: SILT; soft, w/ sand	40.0

WELL DIAGRAM: Portland Type I/II

WELL LOG (PID) I:\CHEVRON\3117--\311741 9-6817 PLEASANT HILL\311741-BORING LOGS\311741-GINT\311741-CPT-13 TO SB-34.GPJ DEFAULT.GDT 7/31/14

Continued Next Page

Conestoga Rovers & Associates.
5900 Hollis Street, Suite A
Emeryville, CA 94608
Telephone: 510-420-0700
Fax: 510-420-9170

BORING / WELL LOG

CLIENT NAME	Chevron Products Company	**BORING/WELL NAME**	SB-34
JOB/SITE NAME	9-6817	**DRILLING STARTED**	17-Jun-14
LOCATION	1705 Contra Costa Boulevard, Pleasant Hill, CA	**DRILLING COMPLETED**	17-Jun-14

Continued from Previous Page

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
0.7		SB-34 -39.5			CL		**CLAY:** Grey; moist; stiff; medium estimated plasticity.	45.0	
1.3		SB-34 -44.5		45	ML		**SILT:** Grey; moist; stiff; medium estimated plasticity; becomes hard at depth. @ 47 fbg: SILT w/ sand; soft	48.5	
1.0		SB-34 -49.5		50	SM		**Silty SAND:** Grey-brown; wet; dense; non-plastic.	50.0	Bottom of Boring @ 50 fbg

NOTES:
1) Silt zones were more moist than clay.
2) Flowing sand/silt at approximately 47 fbg; groundwater rose up to shallow depth in rods (approx. 20 fbg).

WELL LOG (PID) I:\CHEVRON\3117--\311741 9-6817 PLEASANT HILL\311741-BORING LOGS\311741-GINT\311741-CPT-13 TO SB-34.GPJ DEFAULT.GDT 7/31/14

APPENDIX G

COUNTY HEALTH DEPARTMENT RECORDS

Contra Costa County
Health Services Department

ENVIRONMENTAL HEALTH DIVISION

HAZARDOUS MATERIALS / OCCUPATIONAL HEALTH

PERMIT FOR:

X Piping modification ($330/site)
__ Tank modification, repair or lining ($260/tank)
__ Tank installation (See attached fee schedules)

SITE ID: #9-6817 62918

I. SITE NAME & ADDRESS Hamilton Chevron
1705 Contra Costa Blvd, Pleasant Hill, CA. 94523
PHONE NO. (510) 685-5691

II. APPLICANT: Robert H. Lee & Assoc.
CONTACT: Jean Castro
PHONE: (707) 765-1660

III. DESCRIPTION OF WORK: New product piping, containment sumps and monitoring system.
CONTRACTOR: To be determined
DATE PLANS RECEIVED: 9/22/95
APPLICATIONS: 9/22/95 **FEES:** $ 1110.00
DATE APPROVED: 9/29/95 **BY:** Bruce Ca
COMMENTS:

PLANS RETURNED: _____ **DATE:** _____

IV. FIELD INSPECTION (To be completed by Inspector)

__ HOLIDAY TEST — DATE INSPECTED: _____ BY: _____

__ VACUUM VERIFICATION — DATE INSPECTED: _____ BY: _____

X AIR TEST — DATE INSPECTED: 12/4/95 BY: [illegible]

X AIR TEST 2° + VENTSUPS — DATE INSPECTED: 12/7/95 BY: [illegible]

X FINAL — DATE INSPECTED: 1/5/96 BY: [illegible]

PRECISION TANK TEST PERFORMED BY: _____ **DATE:** _____

SIGNATURE VERIFIES SUBMISSION OF TEST REPORT TO CCCHSD

_____ _____
PRINT NAME/DATE SIGNATURE

INSTRUCTIONS
Complete Sections I through III. Submit with appropriate fees, application forms, and two sets of plans. Your copies of the permit will be returned with approval plans. Permit must be kept on-site for sign off by a health inspector and precision tank tester. Upon completion of required inspections and documentation, submit white copy to CCCHSD for issuance of operating permit.

RECEIVED
FEB 05 2013
Contra Costa Health
Hazardous Materials

SWRCB, January 2002

Secondary Containment Testing Report Form

This form is intended for use by contractors performing periodic testing of UST secondary containment systems. Use the appropriate pages of this form to report results for all components tested. The completed form, written test procedures, and printouts from tests (if applicable), should be provided to the facility owner/operator for submittal to the local regulatory agency.

1. FACILITY INFORMATION

Facility Name:	Chevron Dhaliwal 96817	Date of Testing:	1/30/2013
Facility Address:	1705 Contra Costa Blvd. Pleasant Hill, Ca. 94523		
Facility Contact:	Manager	Phone:	685-5691
Date Local Agency Was Notified of Testing :	1-25-2013		
Name of Local Agency Inspector *(if present during testing)*:			

2. TESTING CONTRACTOR INFORMATION

Company Name:	R.L Stevens Co		
Technician Conducting Test:	David Pereira		
Credentials:	[x] CSLB Licensed Contractor	☐ SWRCB Licensed Tank Tester	
License Type:	c-6-dw-40-Haz-Mat	License Number: 415807	

Manufacturer Training

Manufacturer	Component(s)	Date Training Expires
Incon	Sump Tester	1-2014
ICC	Service Tech	6-2014

3. SUMMARY OF TEST RESULTS

Component	Pass	Fail	Not Tested	Repairs Made	Component	Pass	Fail	Not Tested	Repairs Made
T-1 SECONDARY PIPE	X	☐	☐	X		☐	☐	☐	☐
T-2 SECONDARY PIPE	X	☐	☐	X		☐	☐	☐	☐
T-3 SECONDARY PIPE	X	☐	☐	X		☐	☐	☐	☐
	☐	☐	☐	☐		☐	☐	☐	☐
T-3 PIPING SUMP	X	☐	☐	X		☐	☐	☐	☐
	☐	☐	☐	☐		☐	☐	☐	☐
# 1-2 UDC	X	☐	☐	X		☐	☐	☐	☐
	☐	☐	☐	☐		☐	☐	☐	☐
	☐	☐	☐	☐		☐	☐	☐	☐
	☐	☐	☐	☐		☐	☐	☐	☐
	☐	☐	☐	☐		☐	☐	☐	☐
	☐	☐	☐	☐		☐	☐	☐	☐

If hydrostatic testing was performed, describe what was done with the water after completion of tests:

Water put in 55 gallon drum left at site.

CERTIFICATION OF TECHNICIAN RESPONSIBLE FOR CONDUCTING THIS TESTING

To the best of my knowledge, the facts stated in this document are accurate and in full compliance with legal requirements

Technician's Signature: _____ Date: 1-30-2013

CONTRA COSTA COUNTY
HEALTH SERVICES DEPARTMENT
ENVIRONMENTAL HEALTH DIVISION
OCCUPATIONAL HEALTH/HAZARDOUS MATERIALS

UNDERGROUND HAZARDOUS SUBSTANCE STORAGE TANK
Abandonment Information Form

Type of Facility SERVICE STATION Date APRIL 2, 1986

Facility Owner CHEVRON USA INC.

Address 2 ANNABEL LANE, SUITE 200, SAN RAMON, CA.

Phone Number 415-838-5000

Facility Location 1705 CONTRA COSTA BLVD / DORIS
PLEASANT HILL, CA, 94523

No. of Tanks 4

INSPECTION FEE ($100/TANK): Total Fee Paid $400.00

Storage Use History: Used from 1971 to 1986

Material(s) stored in tank(s) 3 TANKS - GASOLINE, 1 TANK WASTEOIL.

Composition of tank(s) STEEL Capacity (2) 10,000, (1) 5000, (1) 550

Tank Removal: Name/Address of Contractor TO BE DETERMINED.

Phone No.

Are inventory records available? YES

Has there been an indication of leakage? NO TANK LEAKAGE

(Explain)

RECEIVED
APR 9 1986
CONTRA COSTA COUNTY
ENVIRONMENTAL HEALTH

Have tanks been tested prior to removal? YES.

Tanks tested by (Name/Address) R.L. STEVENS CO.
P.O. BOX 361, SAN LEANDRO, CA. 94577.

Method PETROTITE.

Expected date of removal APRIL 24, 1986.

Contact Person DARYL FUERSTENAU Phone No. 415-838-5366.

UNDERGROUND TANK PROGRAM

Facility Name:

DATE	ACTIVITY	TIME
1-6-88	A1000 Double wall tank	
	oil was removed To	
	Remington Erikson.	
	Core Soil Sampling. T. Haigh.	RR
	No Leaks	
6/26/89	MANAGER NOT AVAILABLE - ALICE HAMILTON	14:34
	WILL BE IN 6/27/89 0700-1200. LEFT	
	CARD FOR INSPECTION TOMORROW A.M.	
6/27/89	FACILITY INSPECTION. NEED CURRENT ANNUAL	10:30
	PIPELINE LEAK DETECTOR CERTIFICATION.	
	FOUND LEAK IN DISPENSOR 1/2 THAT NEEDS	
	REPAIR. WOULD LIKE CLARIFICATION ON SECONDARY	
	MONITOR USE ON PRODUCT LINES. JH	
12-7-89	Site assessment MR	
7-25-91	File Review JR	
12-6-91	File Review JR	

Facility Location:

UNDERGROUND TANK PROGRAM

DATE	ACTIVITY	TIME
9-8-87	I talked with Kelly we don't	
	have the soil results from the	
	5-86 ~~Ta~~ removals. She will locate Helen	
9-9-87	Gordon of Chevron call will send report	
	and monitory well report ASAP Helen	
9-14-87	REC. SAMPLE RESULTS - EXCEEDED LIMITS, Hank	
9-15-87	Gordon @ Chevron 838-5225 said that the engineers	
	are doing a site evaluation now will	
	be done in 3 wks. Reg Water ~~Board~~	
	has been involved also Helen	
10.21.87	See "New Installation" file for	
	revised Piping Only replacement Jim	
1/5/88	WITNESSED PIPING TEST - AIR AT 80 PSI	
	TEST SATISFACTORY Hank	

UNDERGROUND TANK PROGRAM

Facility Name: Chevron 96817
1705 Contra Costa, Pleasant Hill

DATE	ACTIVITY	TIME
10-10-86	Report that Variance > ± 75 gals	
101086	Sept Had a Total Overage of 451 gal sup.	
	+226 for Rec - +493 unloaded.	
	No monitoring plan The station must have an Electronic Alarm system that it does not have. Rhw?	
2-23-87	Called Kelly at Chevron. Requested appl & mon plan for new tanks.	
4/1/87	File Review. Need - Precision tests on 3 product tanks.	
	- Monitor plan for continuous monitoring of double-wall tanks.	
	- New applications.	
4.23.87	Rec'd applications. Still need precision tests on product tanks.	
*	See new install file for new piping detail. Jan	
5.26.87	Tanks monitored before 9.4.86	
Jan	Issued credit & requested refund	
C		

underground tank

HAZARDOUS ~~WASTE GENERATOR~~ INSPECTION PROGRAM

Chevron Station 1705 Contra Costa Blvd P.H.

DATE	ACTIVITY	TIME
5/15/86	Witnessed removal of 5K steel gasoline tank - tank slightly pitted but no signs of holes - tank to be hauled off by Warren Gomez of Rio Vista for scrap - wtr samples taken on 5/14/86 by Bladetech of San Jose	
5/16/86	G.L. witnessed removal of waste oil tank (1000 gal)	
	- ~~tank~~ tank torn open - 3 foot gash on removal	
	- tank has holes on bottom + top side (¼")	
	- tank is standing on end	
	- soil sample still to be taken: (bucket set aside + covered for sample to be taken from)	
	- waste oil tank still has ~20 Gals sludge in it; not to be moved from site until pumped out + CCC health reinspects + gives OK	
5/19/86	Instructed contractor to take extra precautions in transporting waste oil tank - cover bottom of truck bed w/ plastic cover	

UNDERGROUND TANK PROGRAM

Facility Name:

DATE	ACTIVITY 551 Airport	TIME
5/13/86	T.L. Gomes Excavating : Rio Vista	
	↳ (707) 374-2881	
	TANKS GOING TO ABOVE ADDRESS	
	→ Icing : 150 lbs / tank 1 @ 1:30	
	200 lbs / tank 2 @ 1:00	
	— Tanks pumped out by tion	
	→ SIT PHONE # (415) 685-5691	
	(INSPECTOR DeMILLOT Geary Rd Station)	
	→ FIRE DEPT. INFORMED BUT WERE NOT PRESENT	
	→ 2 tanks pulled 5/13, one left	
	1 TANKS APPEAR PITTED BUT INTACT	
	→ 1 tank to be removed 5/14/86 — soil samples also need to be taken	

PLEASE PRINT

TANK TESTER

1. OWNER Property [X] Tank(s) [X]

Name: Chevron USA INC.
Address:
Representative:
Telephone:

Name: Chevron
Address: 1500 Contra Costa Blvd, Pleasant Hill
Representative:
Telephone:

2. OPERATOR

Name: Same
Address:
Telephone:

3. REASON FOR TEST (Explain Fully)

State requirment

4. WHO REQUESTED TEST AND WHEN

Name: Mark A. Nelson
Title: Engineer
Company or Affiliation: Chevron USA INC.
Date:
Address: 1400 Annabel Lane Suite 200 San Ramon, Ca.
Telephone: 415-838-5303

5. WHO IS PAYING FOR THIS TEST?

Company, Agency or Individual: Chevron USA, INC.
Person Authorizing: Mark A. Nelson
Title: Engineer
Telephone:
Billing Address: 1400 Annabel Lane Suite 200
City: San Ramon, Ca.
State:
Zip:
Attention of:
Order No.
Other Instructions

6. TANK(S) INVOLVED

Identify by Direction	Capacity	Brand/Supplier	Grade	Approx. Age	Steel/Fiberglass
Station north side of station	1500	Chevron	Waste oil Tank	2 months	Fiberglass

7. INSTALLATION DATA

Location (North inside driveway, Rear of station, etc.)	Cover (Concrete, Black Top, Earth, etc.)	Fills (Size, Theft-safe, Drop tubes, Remote Fills)	Vents (Size, Manifolded)	Siphones (Which tanks?)	Pumps (Suction, Remote, Make if known)
Station	Concrete	4"	1½	n/A	n/A

8. UNDERGROUND WATER

Depth to the Water table _____"

Is the water over the tank? [ ] Yes [ ] No

9. FILL-UP ARRANGEMENTS

Tanks to be filled _____ hr. _____ Date Arranged by _____ Name _____ Telephone

Extra product to "top off" and run TSTT. How and who to provide? Consider NO Lead.

Terminal or other contact for notice or inquiry _____ Company _____ Name _____ Telephone

10. CONTRACTOR, MECHANICS, any other contractor involved

Scott Co. only

11. OTHER INFORMATION OR REMARKS

Additional information on any items above. Officials or others to be advised when testing is in progress or completed. Visitors or observers present during test etc.

12. TEST RESULTS

Tests were made on the above tank systems in accordance with test procedures prescribed for petro tite TANK REPAIR as detailed on attached test charts with results as follows:

Tank Identification	Tight	Leakage Indicated	Date Tested
Waste oil Tank	passed	.049	

13. CERTIFICATION

This is to certify that these tank systems were tested on the date(s) shown. Those indicated as "Tight" meet the criteria established by the National Fire Protection Asociation Pamphlet 329.

12/17/86
Date

1017
Serial No. of Thermal Sensor

Doug Weinert
Technicians

Scott Co.
Testing Contractor or Company. By: Signature

200 Jennings St. San Francisco Ca
Address

Contra Costa County

HEALTH SERVICES DEPARTMENT
ENVIRONMENTAL HEALTH DIVISION
1111 WARD STREET, MARTINEZ, CALIFORNIA 94553
(415) 372-2286

PERMIT NO. UG

SITE ID #

PERMIT TO OPERATE UNDERGROUND STORAGE TANK

☒ 5 YEAR ☐ 1 YEAR ☐ AMENDED ☐ TEMPORARY

DATE ISSUED 06/01/86

DATE EXPIRES 06/31/91

I. OWNER

CHEVRON U.S.A. INC.
ATTN: COMPLIANCE SPECIALIST
2 ANNABEL LANE, SUITE 200
SAN RAMON, CA 94583

PHONE

(415) 838-5822

II. FACILITY

CHEVRON SS# 9561
1705 CONTRA COSTA BLVD
PLEASANT HILL, CA 94523

PHONE

(415) 685-5691

III. UNDERGROUND TANKS

CONTAINER ID #	(GAL) CAPACITY	SUBSTANCE CONTAINED	MONITORING ALTERNATIVE	YEAR INSTALLED
3	10000	UNLEADED	CONTINUOUS	1986
2	10000	REGULAR	CONTINUOUS	1986
1	10000	PREM UNLEADED	CONTINUOUS	1986
~~4~~ Removed	~~1000~~	~~WASTE OIL~~	~~CONTINUOUS~~	~~1986~~

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SEP 22 1987
Contra Costa Health
Environmental Health

IV. REINSPECTION DUE

TANK TEST DUE

NONE NECESSARY

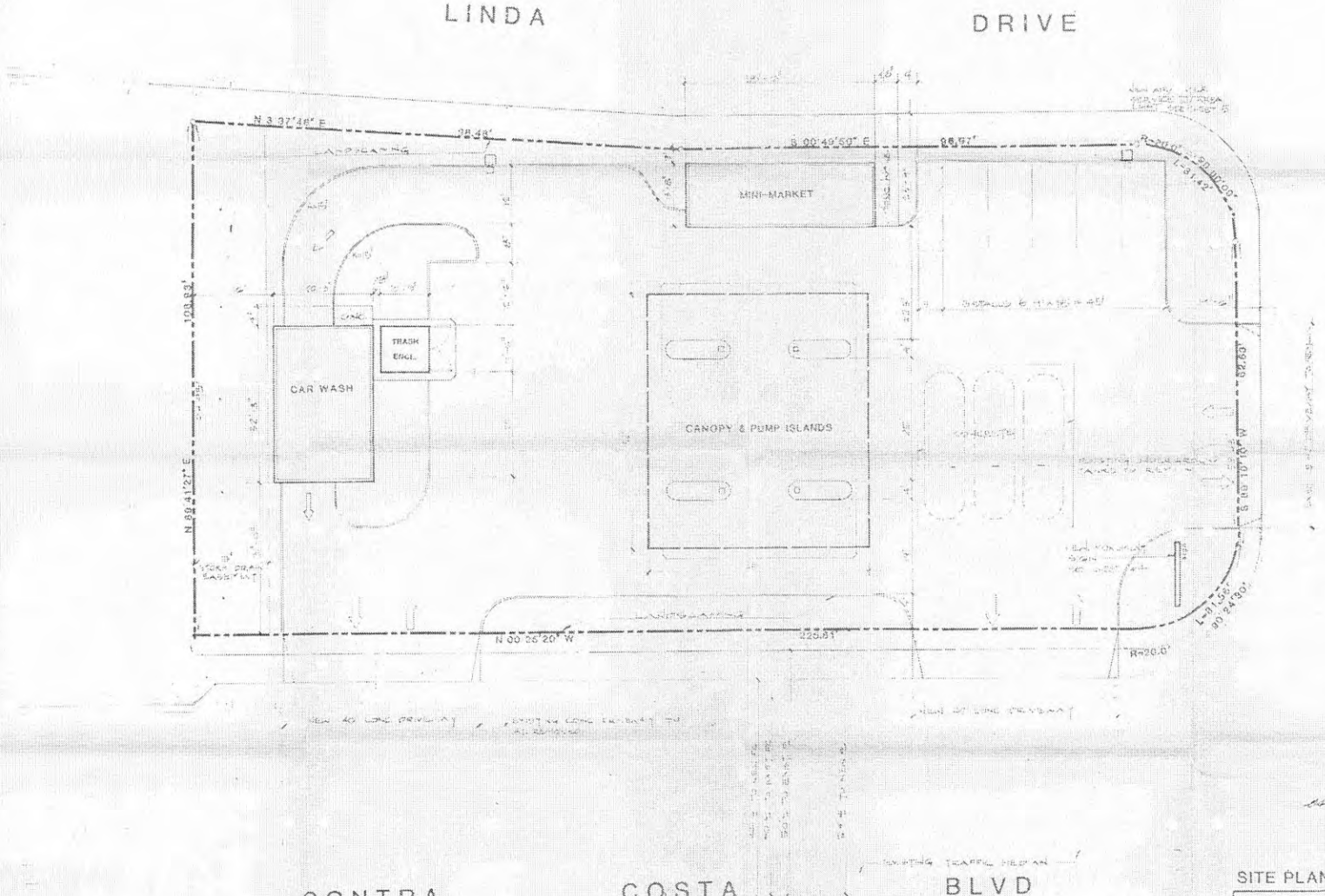
V. THIS PERMIT REQUIRES COMPLIANCE WITH CALIFORNIA ADMINISTRATIVE CODE, TITLE 23 WATERS, CHAPTER 3 WATER RE CONTROL BOARD, SUBCHAPTER 16 UNDERGROUND TANK REGULATIONS. SIGNATURE OF OWNER / OPERATOR EVIDENCES K OF REQUIREMENTS.

Kelly M. Mathia
PERMIT APPLICANT

ISSUING AGENT

- CHANGE OF OWNERSHIP MUST BE REPORTED IMMEDIATELY.
- THIS PERMIT MAY BE REVOKED FOR CAUSE.
- PERMIT FEE IS TRANSFERABLE.

HSD/EHD CERTIFIED FILE RECEIPT



ACCEPTED
CONTRA COSTA COUNTY
HEALTH SERVICES DEPARTMENT

7-22-87 Bruce Brinks
[illegible] this must be used
[illegible] plans will be necessary

RECEIVED
JUL 10 1987
Contra Costa Health
Environmental Health

SITE PLAN

Chevron
Chevron U.S.A. Inc.

SERVICE STATION #6817
DORIS DRIVE & CONTRA COSTA BLVD
PLEASANT HILL, CA

ROBERT H. LEE & ASSOCIATES

1 OF 5

CONTRA COSTA COUNTY
HEALTH SERVICES DEPARTMENT

ENVIRONMENTAL HEALTH DIVISION

OCCUPATIONAL HEALTH/HAZARDOUS MATERIALS

UNDERGROUND TANK FACILITY INSPECTION

Facility Name: CHEVRON S.S. # 96817 **ID:** # 62918

Permit Information is Correct ☒ **Incorrect** ☐ **Changes:**

Pipeline Leak Detector Installed: Yes ☒ No ☐; Not Necessary ☐
(Mechanical) (Suction system)

IF NO: DETECTOR(S) MUST BE INSTALLED AND FACILITY REINSPECTED WITHIN 60 DAYS.

Date last tested: UNKNOWN Comments: Detectors must be tested annually. NEED CURRENT ANNUAL CERTIFICATION.

Electronic Tank/Pipe Annular Space Monitor Required: Yes ☒ No ☐

System Check: Pass ☒ Fail ☐ Installed: Yes ☒ No ☐

IF FAIL: SYSTEM MUST BE REPAIRED AND FACILITY REINSPECTED WITHIN 60 DAYS.
SCULLY DYNACHECK.
Comments: Document compliance with manufacturer's maintenance recommendations.
MONITOR SEEMS TO ONLY MONITOR TANK ANNULAR SPACE AND NOT PRODUCT LINES. NEED CLARIFICATION

Electronic In-Tank Gauge System Installed: Yes ☒ No ☐

Functioning: Yes ☒ No ☐; IF NO: Manually gauge tank until gauging device is functioning correctly. REINSPECTION REQUIRED WITHIN 30 DAYS.

Date last checked : UNKNOWN Comments: GILBARCO MONITORING UNIT

Inventory Control: Electronic ☒ Reconciliation ☐ Gauging ☐

Adequate: ☐ Not Adequate: ☐ Comments: CONTINUOUS MONITOR

Copy of Revised Record-keeping to be mailed in by: _____ (date) No ☒

REINSPECTION DATE: _____ Yes ☐ No ☒

Hazardous Waste Generator? Yes ☐ No ☒; Licensed? Yes ☐ No ☒

Type of waste(s): _____

Additional Remarks: DISPENSOR 1/2 HAS A LEAK - NEEDS REPAIR
NO CONTAINMENT AROUND S.T.P. - CAN NOT OBSERVE SEC. CONT. PIPES OR MONITOR

Site Rep: ROD HAMILTON **Date:** 6/27/89

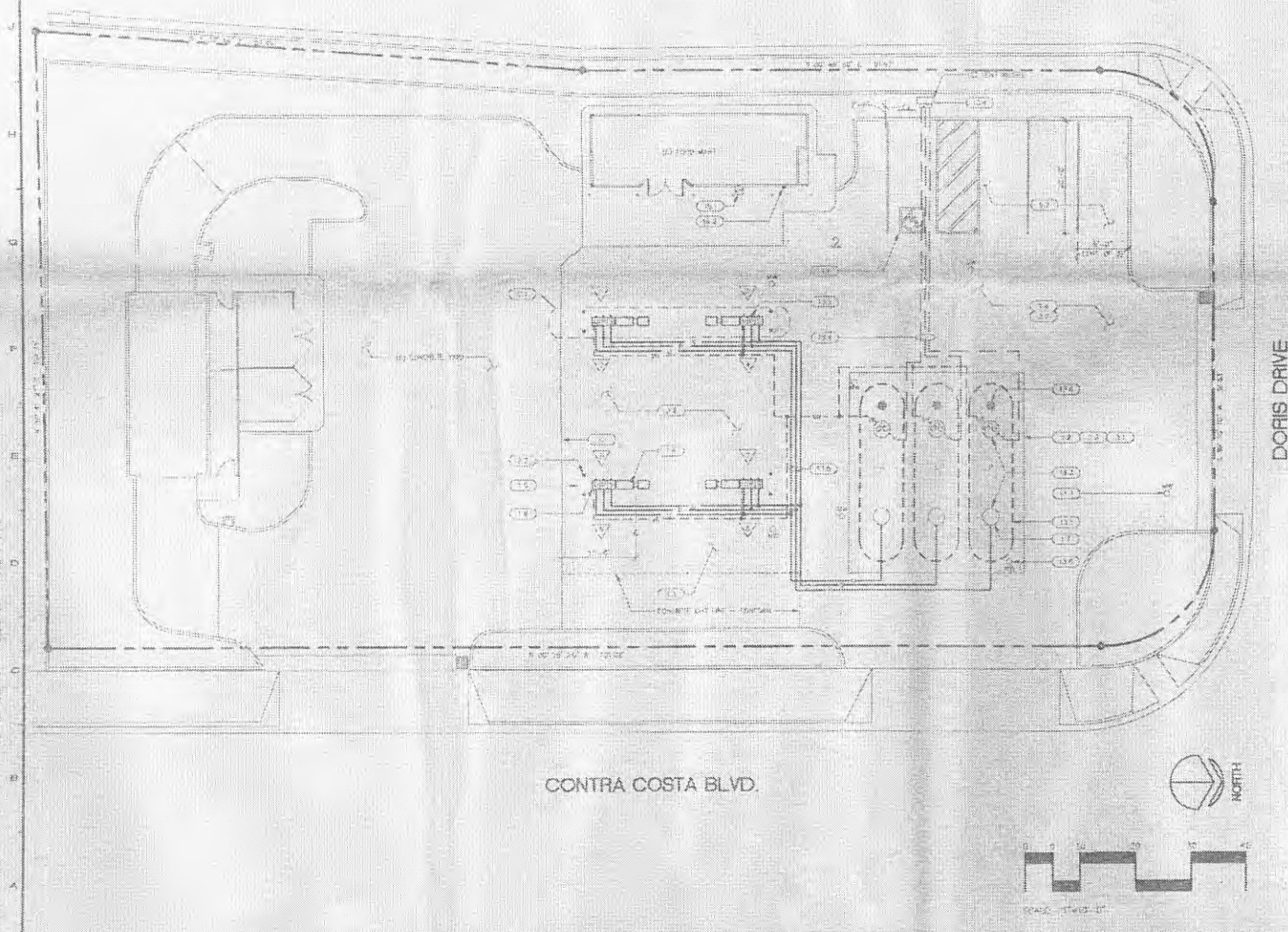
Title: DEALER _____ Signature of Inspector

The Contra Costa County Health Services Department (CCCHSD) has inspected this facility as required by California Health & Safety Code Div. 20, Chapter 6.7, Section 25288. A photocopy of this form will be sent to the facility within 5 days. Any questions regarding this inspection may be directed to:

Hazardous Materials/Occupational Health
1111 Ward St., Martinez, CA 94553 **Phone:** (415) 646-2286

2008

979



NOTES

KEY NOTES

SITE PLAN ABBREVIATIONS AND LEGEND

MARK	DATE	REVISIONS	INITIAL

SITE PLAN

9-6617
1705 CONTRA COSTA BLVD.
PLEASANT HILL, CA

Chevron
Northwest Region

ROBERT H. LEE & ASSOCIATES, INC.

R.H.L. REVIEW	INITIAL	DATE

A-1

Contra Costa County
Health Services Department

ENVIRONMENTAL HEALTH DIVISION

OCCUPATIONAL HEALTH / HAZARDOUS MATERIALS

UNDERGROUND TANK FACILITY INSPECTION

[]Normal []Follow-up []Complaint [✓]Removal []Install []Install-Final

DATE: 11-12-95

FACILITY NAME: Chevron SS# 96817 ID #: 62918

FACILITY ADDRESS: 1705 Contra Costa Blvd

Permit information correct yes [✓] no [ ]

Changes:_____ Number of active/billable tanks:_____

Annular space monitor, if required:

Not Operating []01 Not Tested []02 Not Installed []03

Pipe sump monitor, if required: Not Operating []04 Not Installed []05

Pipeline leak detector (Mechanical/Electronic) if required:

Not Operating []06 Not Tested []07 Not Installed []08

Date of last test:_____

Tank Gauge, if required: Not Operating []09 Not Tested []10 Not Installed []11

Tank Gauging Systems must be tested annually: Date of last test:_____

Performs tank tests [] Tests pipelines [] Acts as a pipeline leak detector []

Inventory Control: Adequate []12 Not Adequate []13

Inventory control (single walled tanks only): Electronic tank gauge [] Manual daily []

Manual internal [] SIR program []

Entered 11-29-95 JR

Precision tank testing, if required: Test Overdue []14

Tank testing frequency required: Annual [] Biennial [] Test performed by on-site device[]

Pipeline testing, if required: Test overdue []15

Pipeline test method:_____

No Violations Observed [] Other Violations []16

Reinspection required: Yes [] Date:_____ No []

Signature of site Representative: Signature of Inspector:

Bruce Theuls

COMMENTS: observed soil sampling after pipeline removal

HB

The Contra Costa County Health Services Department has inspected this facility as required by California Health & Safety Code Division 20, Chapter 6.7, Section 65288. Any questions regarding this inspection may be directed to:

Hazardous Materials/Occupational Health
4333 Pacheco Blvd., Martinez, CA 94553
Phone: ((510) 646-2286 FAX: (510) 646-2073

UGTFRM1.SAL

CERTIFIED UNIFIED PROGRAM AGENCY
Contra Costa Health Services - Hazardous Materials Programs
4333 Pacheco Blvd, Martinez, CA 94553
HAZARDOUS WASTE AND HAZARDOUS MATERIALS
MANAGEMENT REGULATORY PROGRAM

Date: December 23, 2003

Permit Number: 76-2918

Mailing Address
CHEVRON PRODUCTS CO
PERMIT DESK
PO BOX 6004
SAN RAMON CA 94583

Facility Operator, Name, and Address
M B ENTERPRISES
CHEVRON STATION #96817
1705 CONTRA COSTA BLVD
PLEASANT HILL, CA 94523

Notice of Violation

The following are results of inspections made of your facility on the date(s) indicated. The violations are to be corrected and reinspected by the due date shown. Please call this agency to schedule a reinspection.

HMBP Inspection

	Violation	Inspector	Inspect Date	Due Date
1	Title 19 CCR Section 2732 requires the business to implement a training program for employees including methods for safe handling chemicals, coordination of emergency response personnel, and use of emergency equipment.	DENA HUTCHIN	10/24/2001	11/24/2001

Hazardous Waste Generator Inspection

	Violation	Inspector	Inspect Date	Due Date
1	CCR 66265.16 (a)(1) requires that facility personnel successfully complete a program of classroom instruction or on-the-job training that teaches them to perform their duties in a way that ensures the facilities compliance with hazardous waste regulations.	DENA HUTCHIN	10/24/2001	11/24/2001

Sincerely,

Dena Hutchin/JR

DENA HUTCHIN
Hazardous Materials Specialist

762918

OFFICE OF THE DISTRICT ATTORNEY
CONTRA COSTA COUNTY

Mark A. Peterson
DISTRICT ATTORNEY

August 20, 2013

MB Enterprises Inc.
Bhagdeep Dhaliwal
Massoud Ebrahimi
4430 Deerfield Way
Danville, CA 94506

Re: Underground storage tank ("UST") violations at the following property:
Pleasant Hill Chevron
1705 Contra Costa Blvd.
Pleasant Hill, CA 94506
Site No. 762918

Dear Mr. Dhaliwal and Mr. Ebrahimi:

My office received an enforcement referral from the Contra Costa Health Services Hazardous Materials Program ("CCHSHMP") regarding various UST violations which were observed during inspections at your business. I am in the process of investigating this referral for the purpose of deciding if formal enforcement action is warranted in this matter.

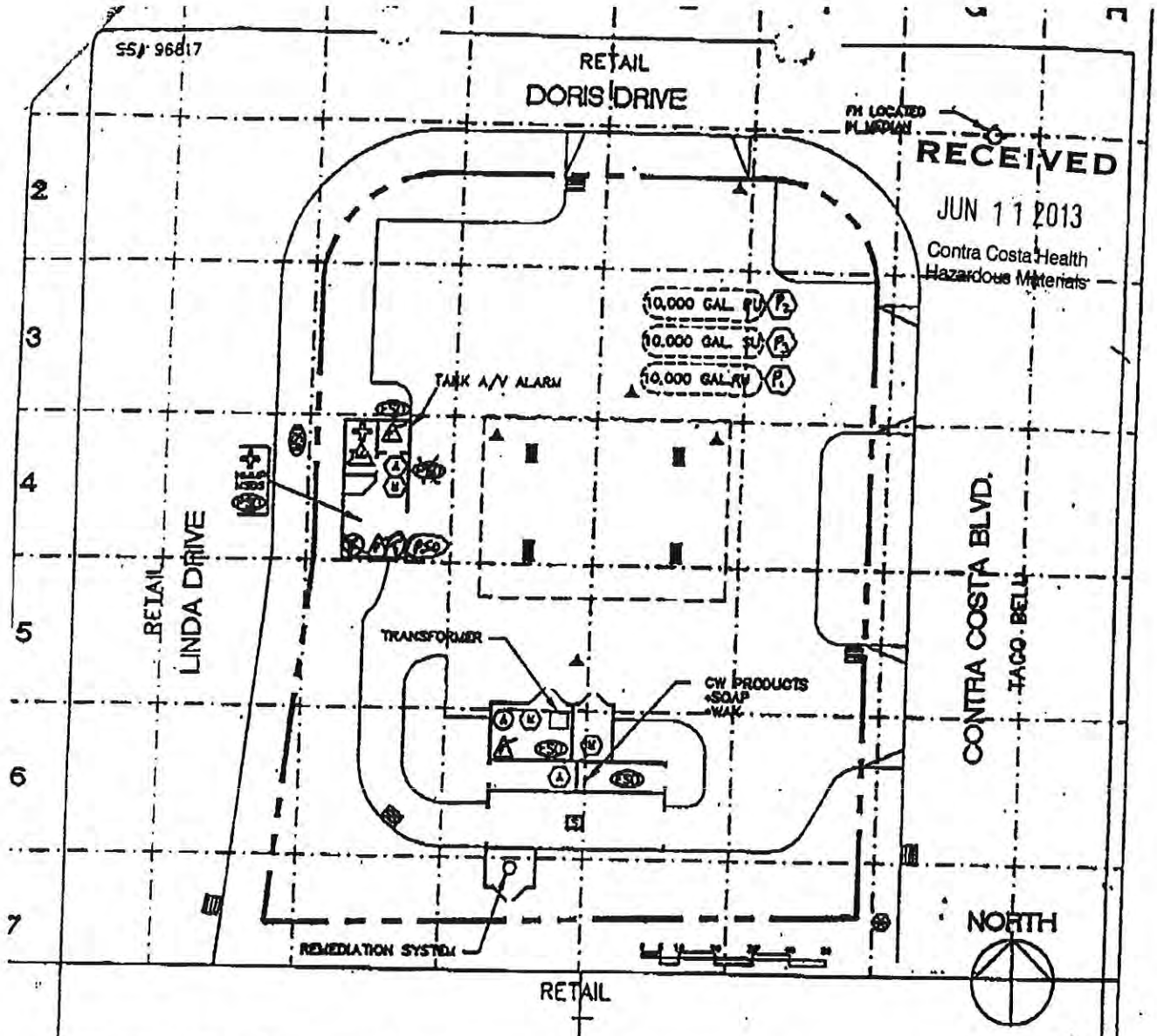
If you would like to discuss this matter prior to my final enforcement decision, please contact me at (925) 957-8787.

Sincerely,
MARK A. PETERSON
District Attorney

Stacey N. Grassini
Deputy District Attorney
Special Operations Division

Special Operations Division
900 Ward Street, Fourth Floor
P.O. Box 670
Martinez, California 94553

(925) 957-8604
Fax (925) 646-4683



SELF SERVICE STATION LEGEND		SCALE: 1"=30'-0"±	DATE: 01/02/96
EMERGENCY PUMP SHUT-OFF	MONITORING WELLS	SITE PLAN	
ELECTRICAL PANEL SHUT-OFF	OBSERVATION WELLS	1705 CONTRA COSTA BLVD.	
NATURAL GAS SHUT-OFF	ANTIFREEZE	PLEASANT HILL, CALIFORNIA 94523	
WATER SHUT-OFF	MOTOR/TRANSMISSION OIL	SS# 96817	
TANK MONITORING ALARM	A.G. PRODUCT TANK	Chevron	
TELEPHONE	U.G. PRODUCT TANK	Chevron U.S.A. Inc.	
FIRST AID KIT	U.G. WASTE OIL TANK		
FIRE EXTINGUISHER	ABSORBENT		
STORM DRAIN			
SANITATION SEWER			
EMERGENCY ASSEMBLY AREA			
HAZMAT AND MSDS LOCATION			
FIRE HYDRANT			

ROBERT H. LEE & ASSOCIATES, INC.

APPENDIX H

MIP REPORT/LOGS

Membrane Interface Probe Investigation Report

Chevron 96817
1705 Contra Costa Boulevard
Pleasant Hill, California 94523

Prepared for:

CRA
5900 Hollis Street
Suite A
Emeryville, California 94608

Prepared by:

Vironex, Inc.
1641 Challenge Drive
Concord, California 94520

July 18, 2014

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Wilmington, DE • Washington, DC • Denver, CO • Los Angeles, CA • San Francisco, CA • Trenton, NJ
www.vironex.com

Project Summary

Project Name: Chevron 96817

Project Dates: June 2nd through 6th and 9th, 2014

Equipment/Manpower: Vironex mobilized one custom Membrane Interface Probe (MIP) System and one specialist to the project site.

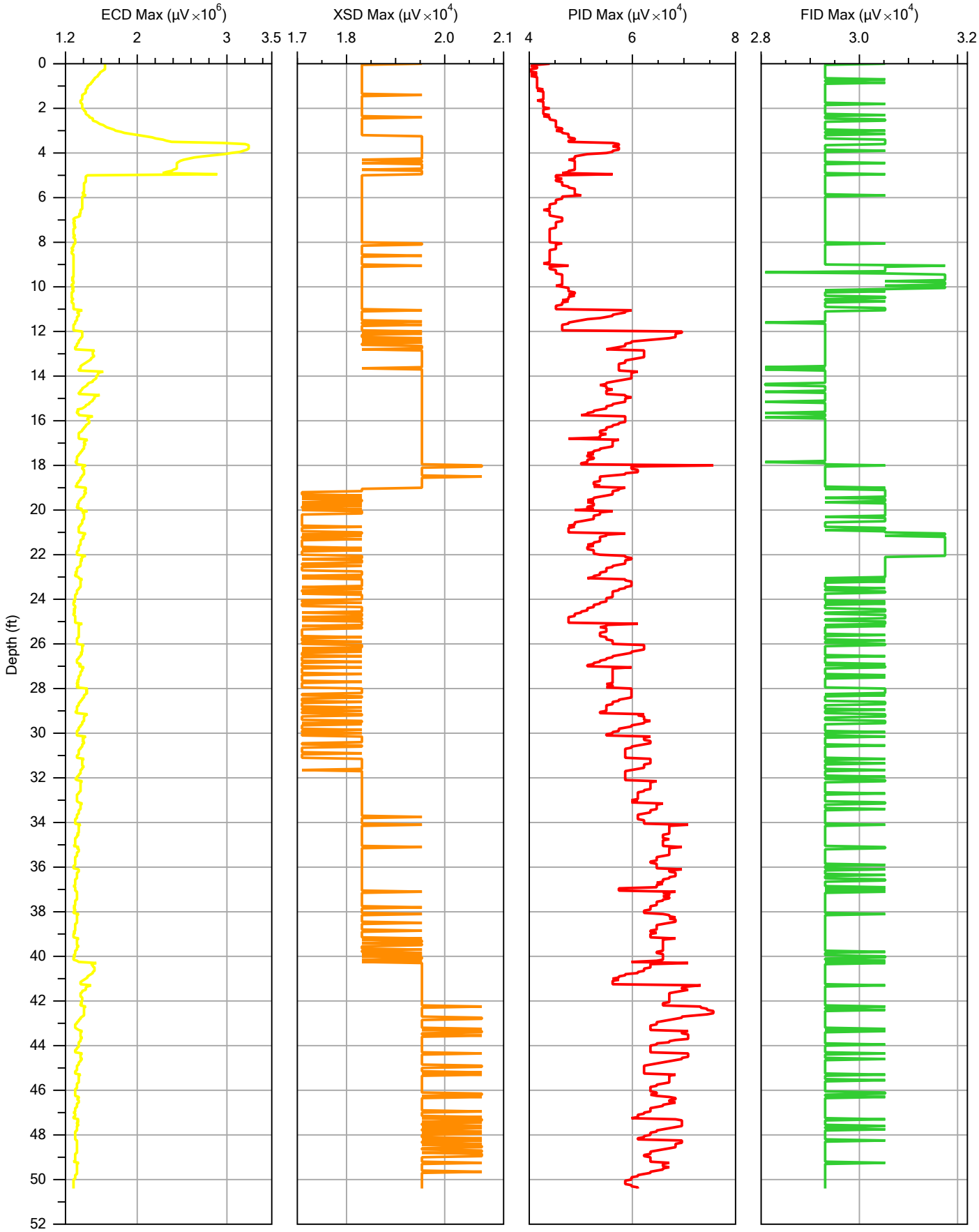
Project Summary: In conjunction with Vironex, Gregg Drilling advanced 12 Cone Penetration Test with MIP borings from the ground surface to between approximately 50 and 70 feet below ground surface (bgs). For the purposes of this project, the MIP system was equipped with an electron capture detector (ECD), halogen-specific detector (XSD), photo-ionization detector (PID), and flame-ionization detector (FID). During the advancement of each boring, the response of each detector, relative to depth, was recorded in accordance with the standard operating procedures for the MIP system. The CPT log provided an interpretation of the soil type. The details associated with each boring are presented below.

MIP Boring	Date	Time	Total Depth	Notes
CPT-21	06.04.14	11:36	51.15	Hand auger to 8 feet bgs.
CPT-23	06.02.14	13:25	70.35	Hand auger to 8 feet bgs.
CPT-24	06.03.14	14:44	60.90	Hand auger to 8 feet bgs.
CPT-25	06.06.14	14:49	51.00	Hand auger to 8 feet bgs.
CPT-26	06.04.14	08:22	51.85	Hand auger to 8 feet bgs.
CPT-27	06.05.14	8:20	50.80	Hand auger to 8 feet bgs.
CPT-28	06.04.14	15:02	50.30	Hand auger to 8 feet bgs.
CPT-29	06.05.14	11:01	51.05	Hand auger to 8 feet bgs.
CPT-30	06.05.14	14:30	56.10	Hand auger to 8 feet bgs.
CPT-31	06.06.14	08:15	53.70	Hand auger to 8 feet bgs.
CPT-32	06.06.14	11:39	50.85	Hand auger to 8 feet bgs.
CPT-33	06.09.14	08:34	55.80	Hand auger to 8 feet bgs.

The MIP boring logs are presented in Appendix A and B. The detector response scales for boring logs in Appendix A are automatically chosen based on the highest response during each boring. The detector response scales for boring logs in Appendix B are set to a common scaled based on the highest detector response observed across all borings at the site. Additional information regarding the principals and procedures associated with the MIP system is presented in Appendix C.

Quality Assurance/Quality Control: In order to maintain quality assurance and quality control standards during the course of the project, a response test was completed before and after each MIP boring (additional details regarding response testing are provided in Appendix C). The response test indicates that the MIP system is operating properly, and therefore, may be advanced into the subsurface. All response testing conducted during the project were within the applicable Geoprobe guidelines. Additionally, the internal carrier gas pressure of the system and MIP temperature were monitored during the advancement of each MIP boring to ensure the system was functioning properly.

Appendix A – MIP Boring Logs (Auto-Scale)



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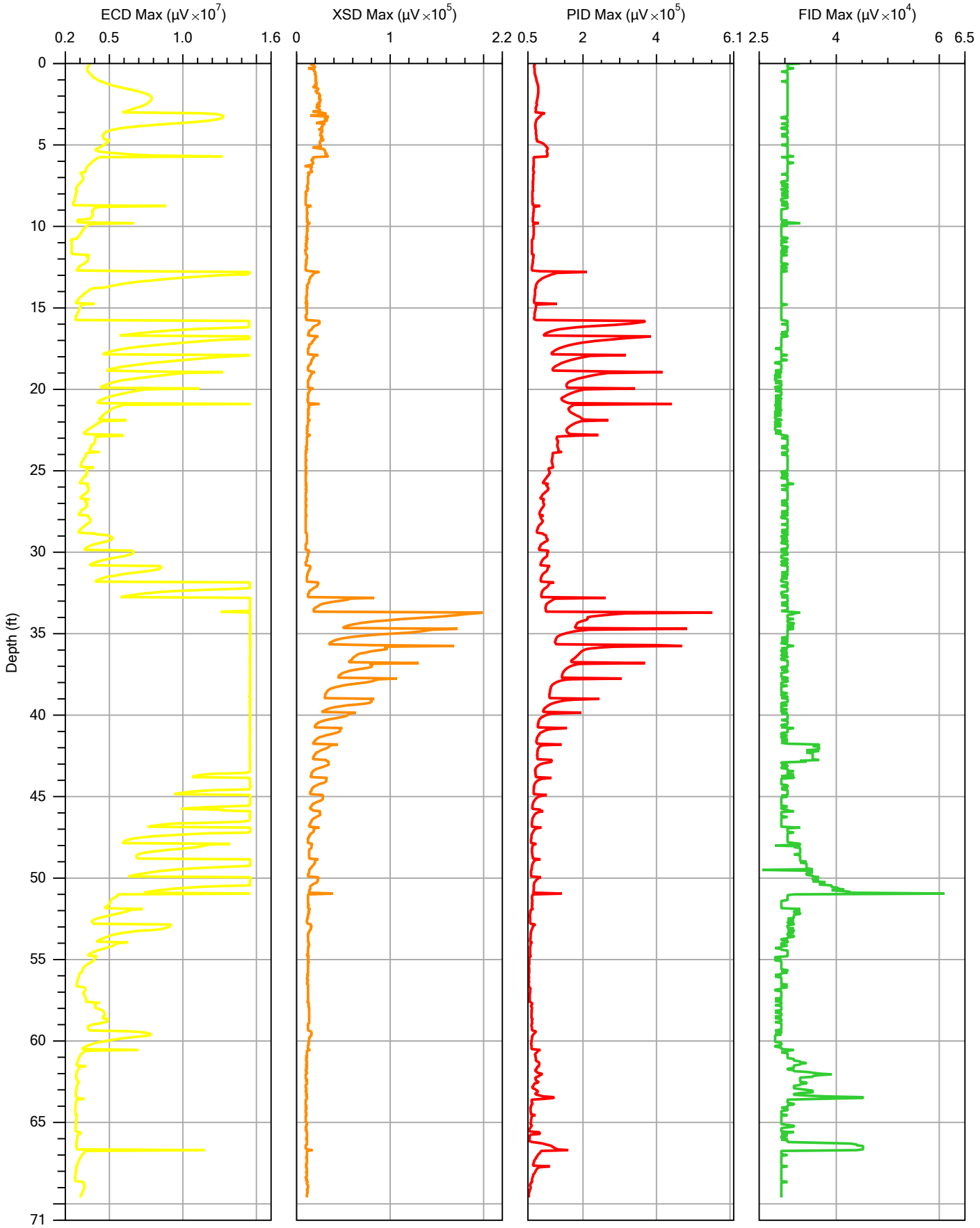

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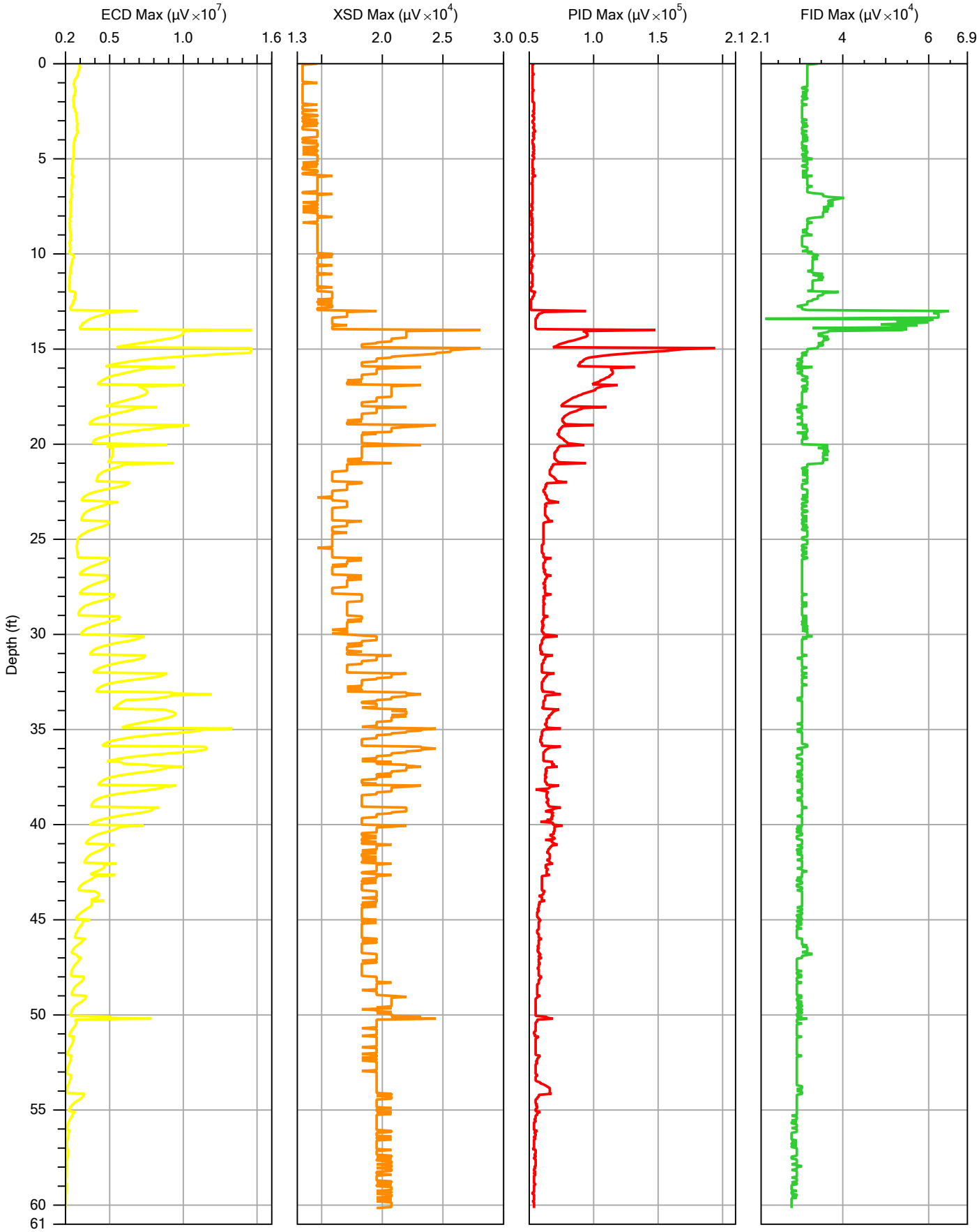

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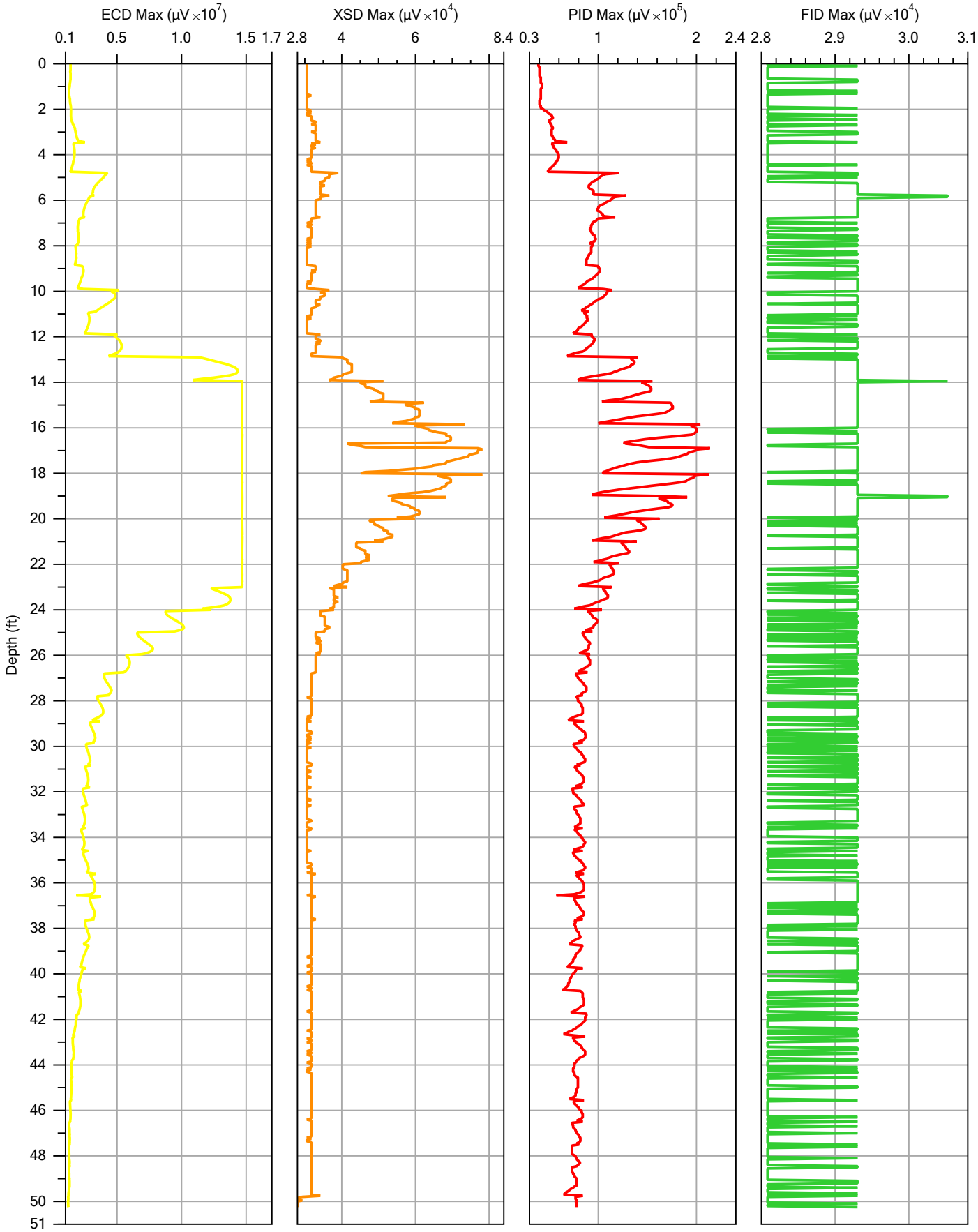

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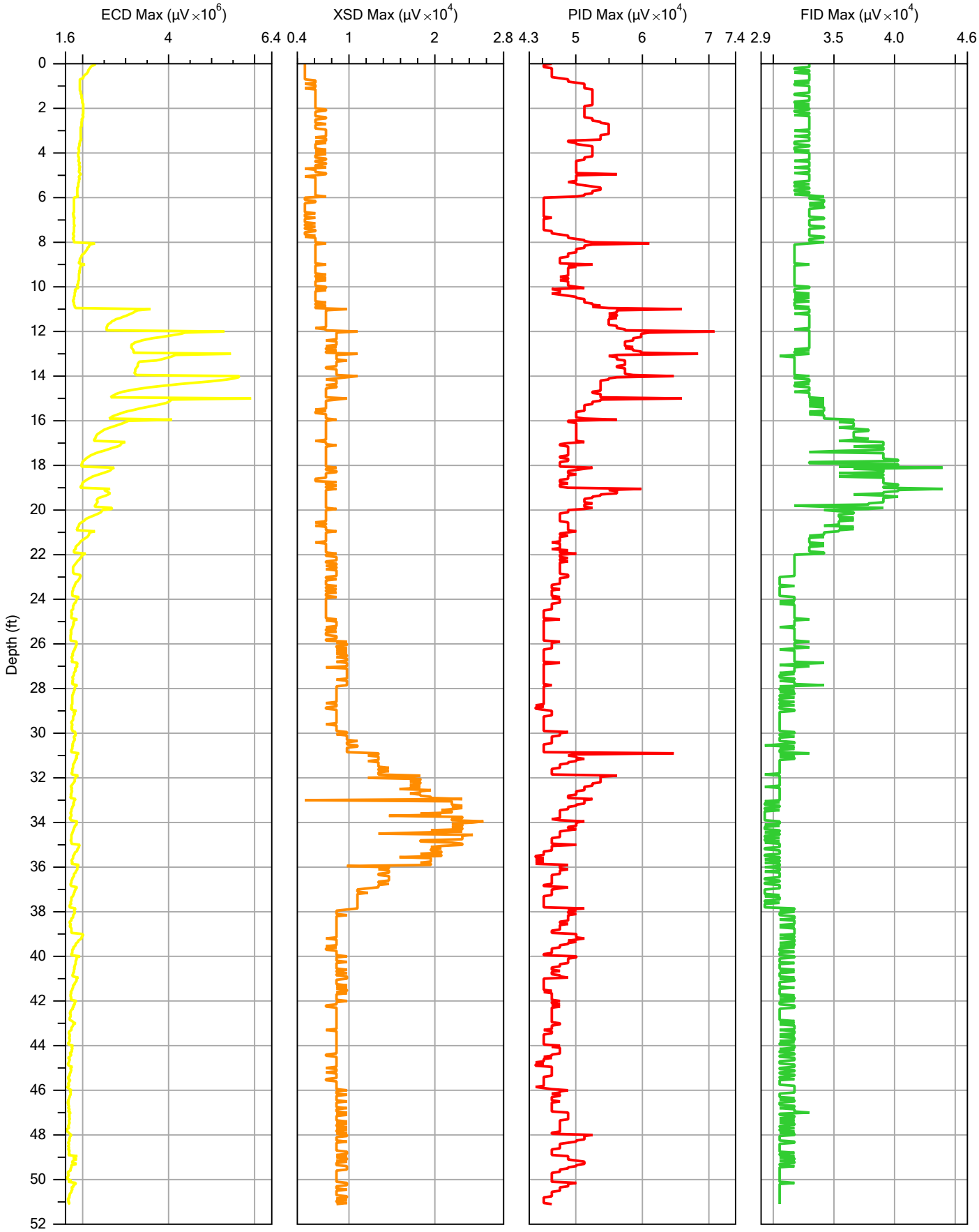

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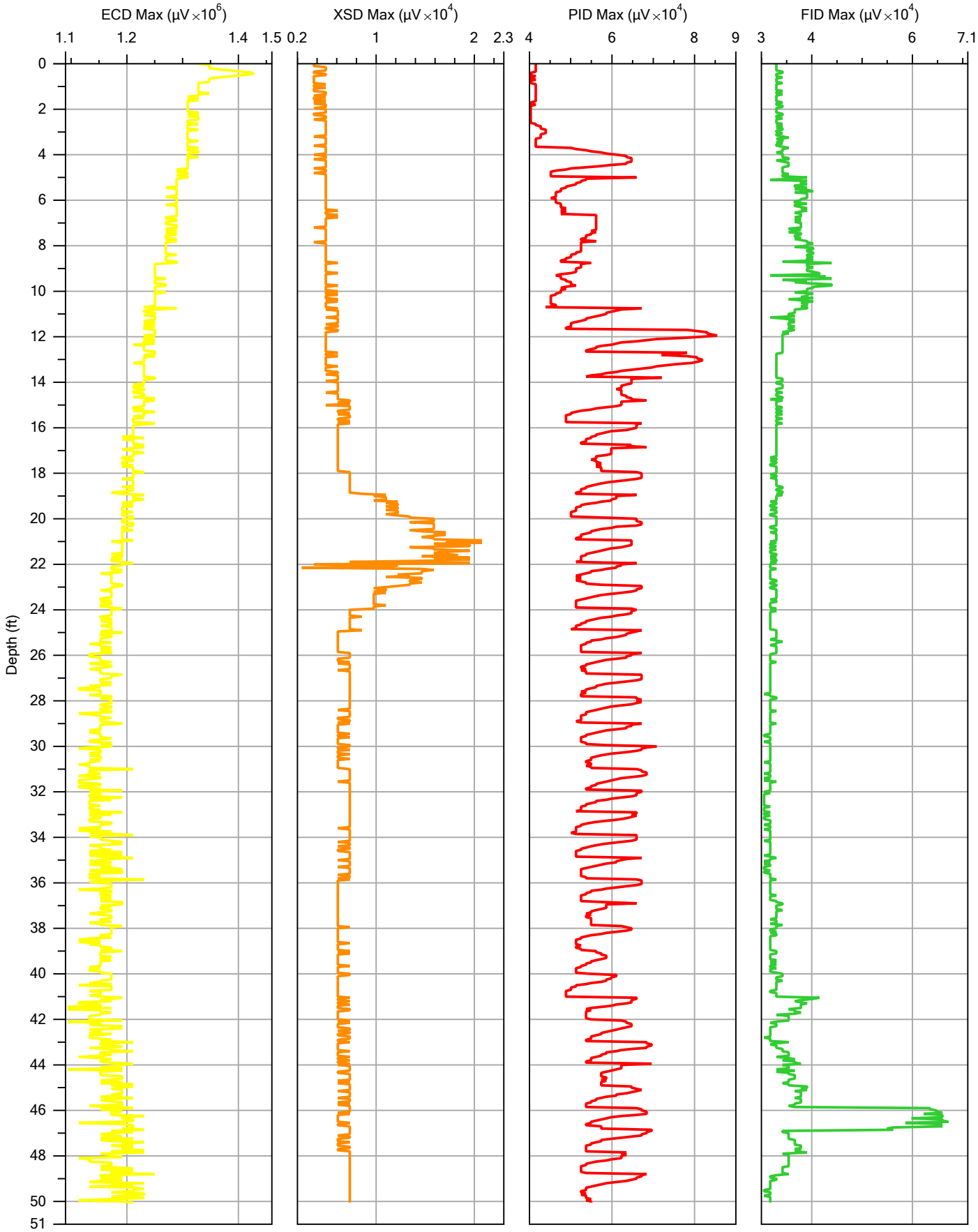

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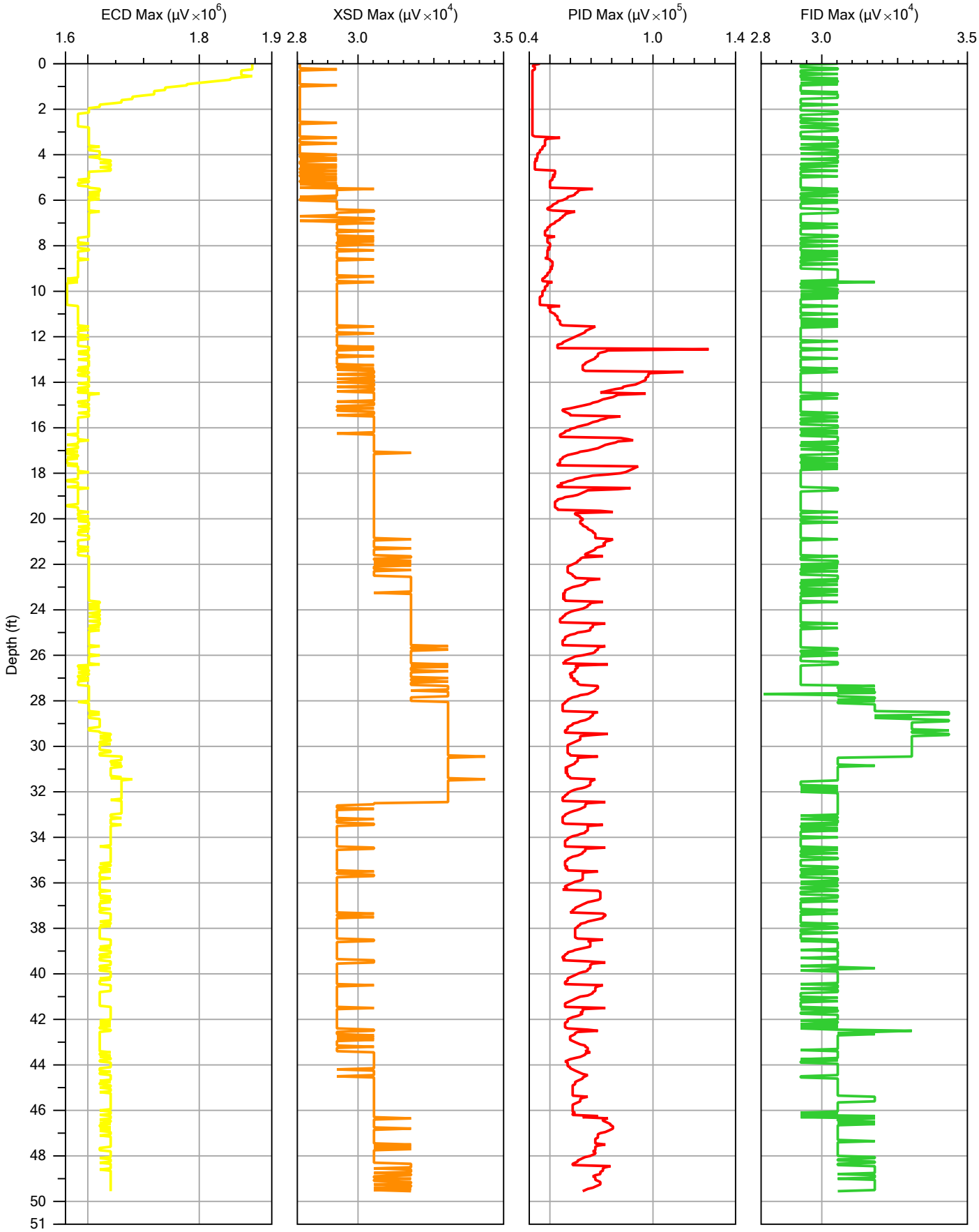

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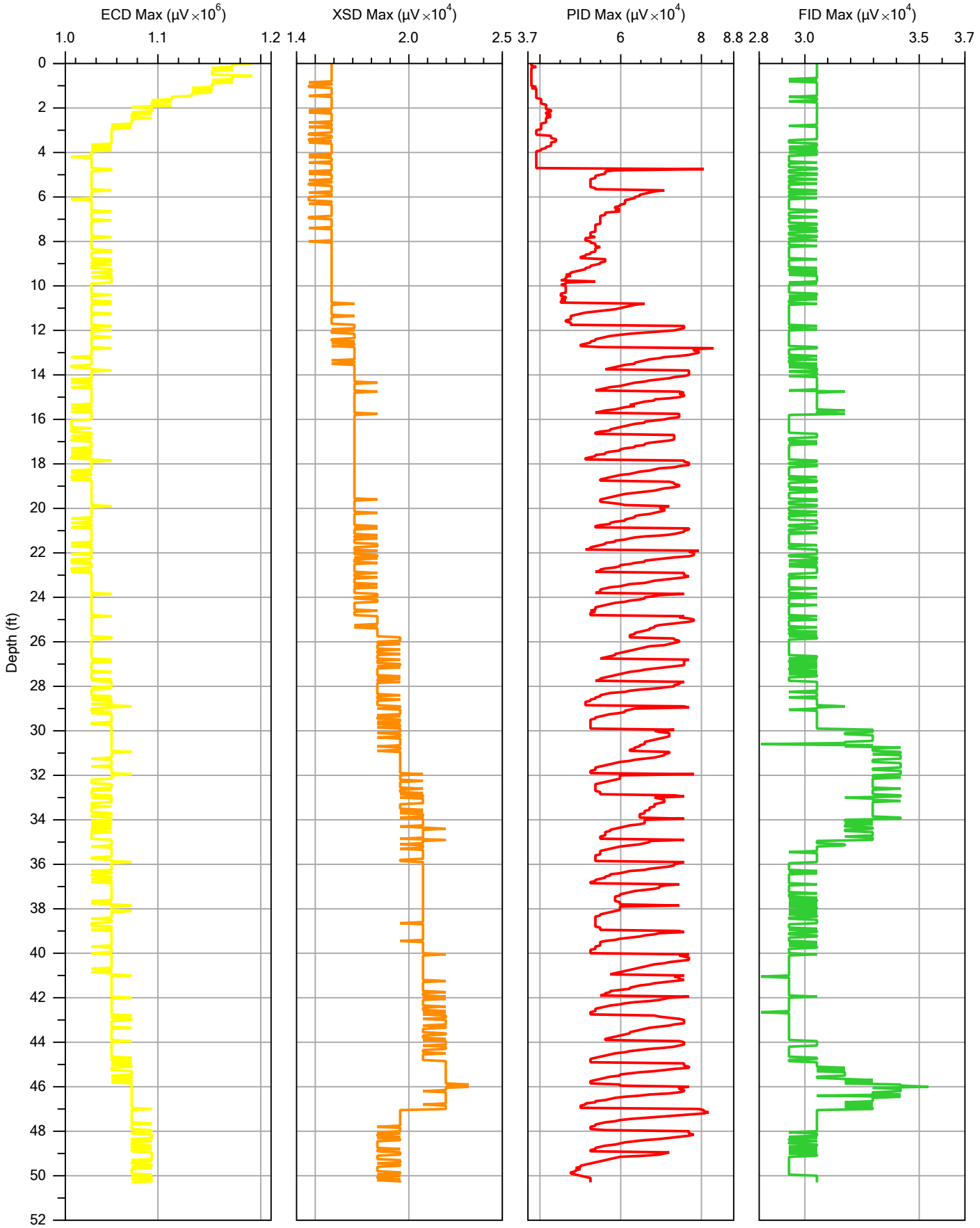

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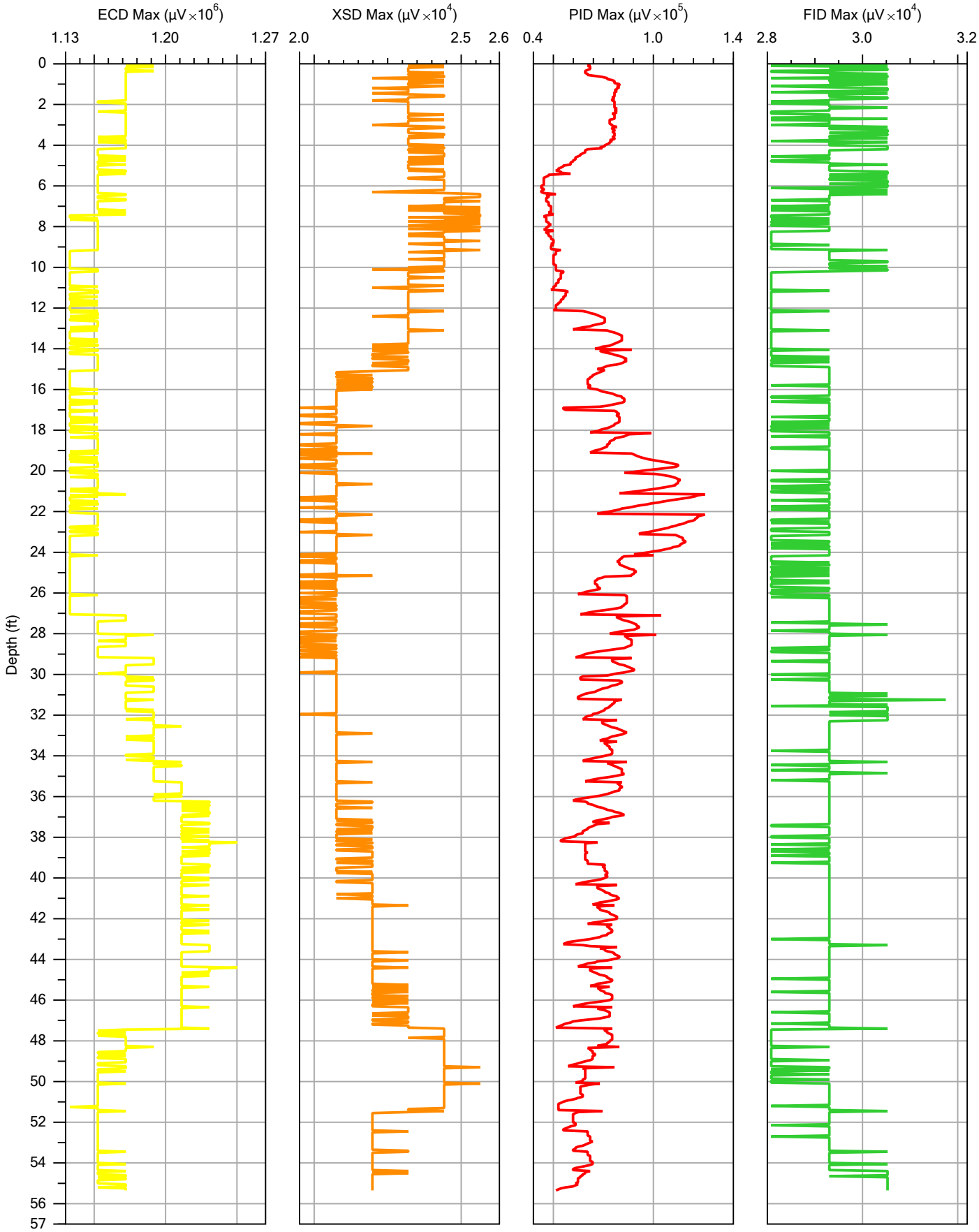

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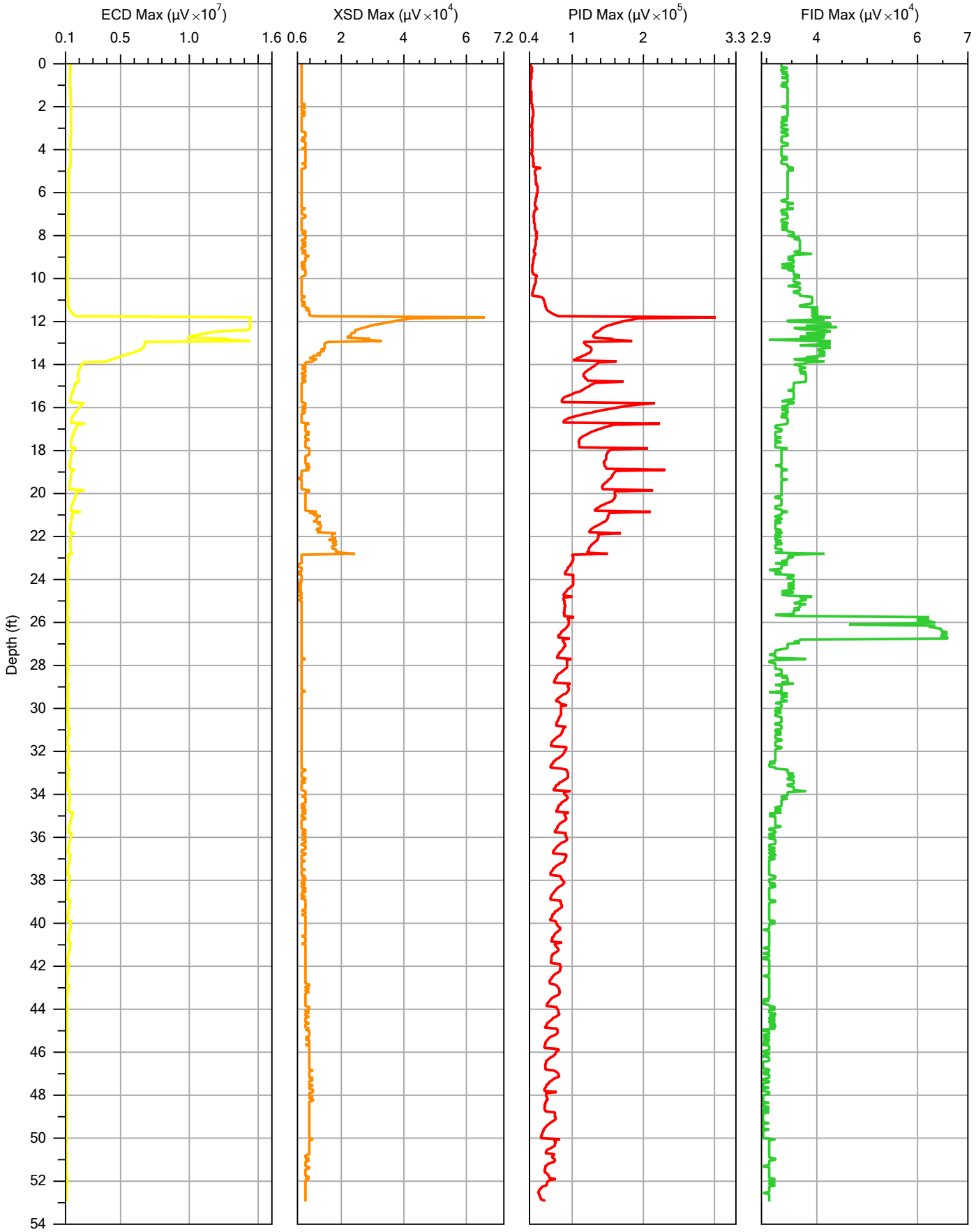

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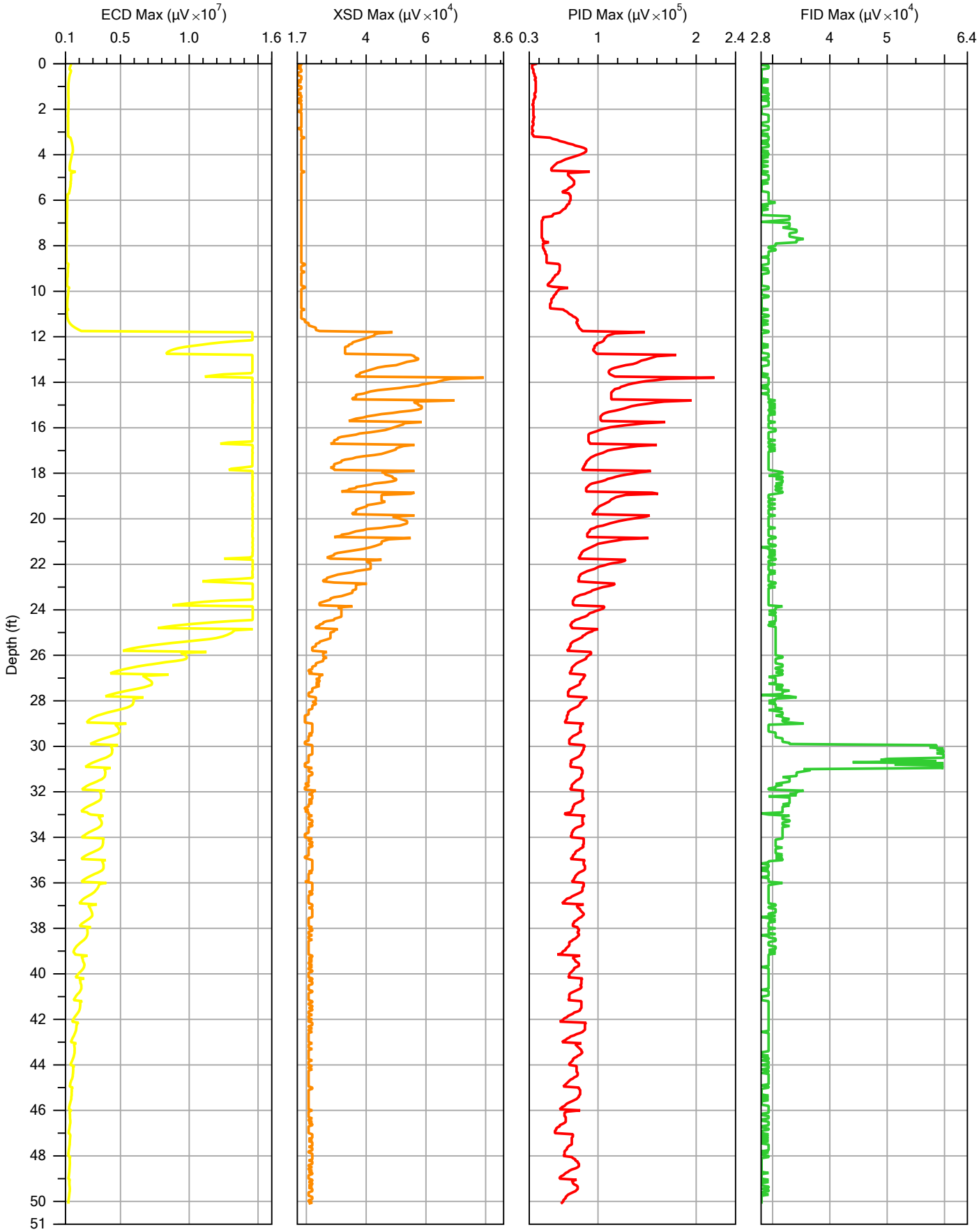

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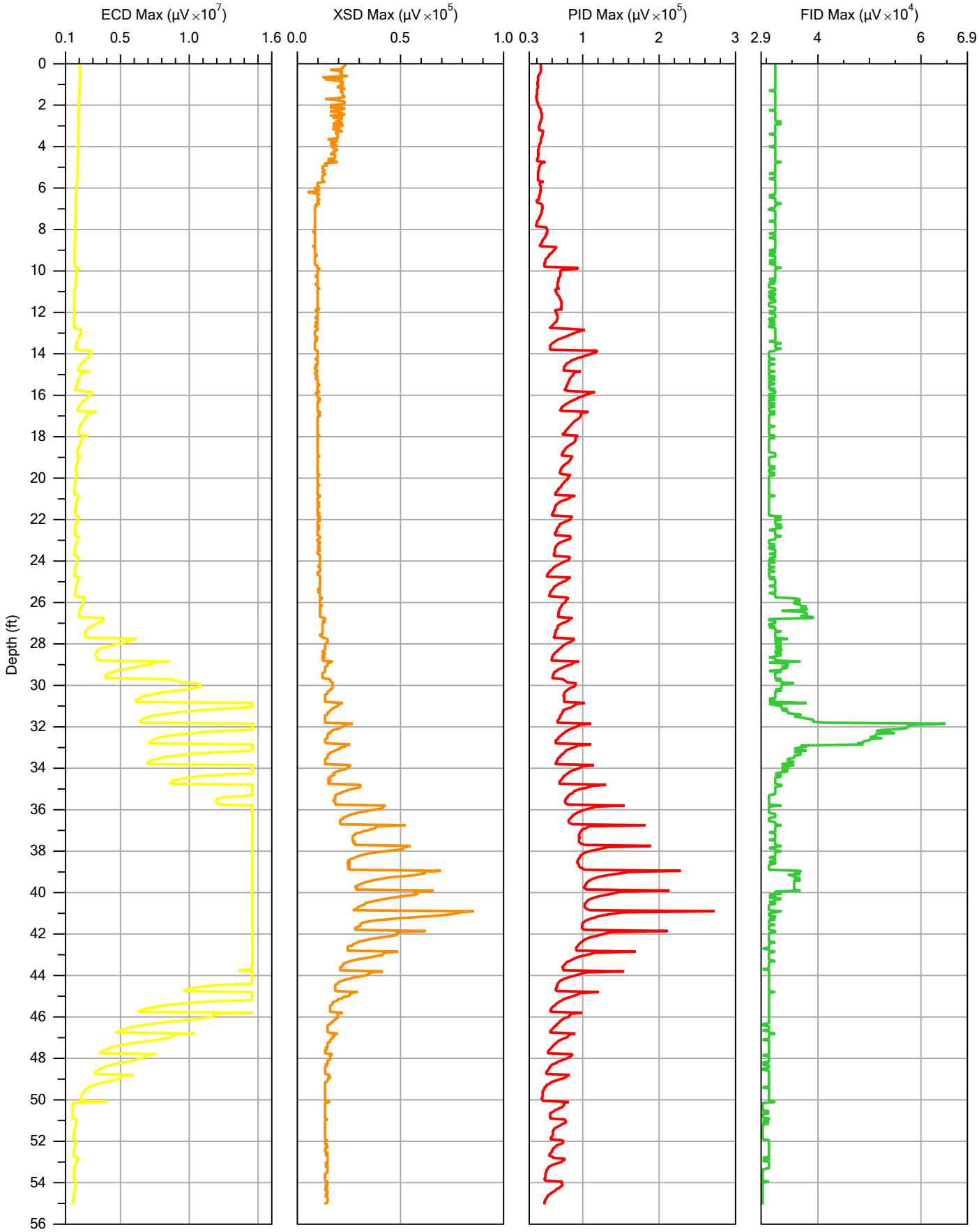

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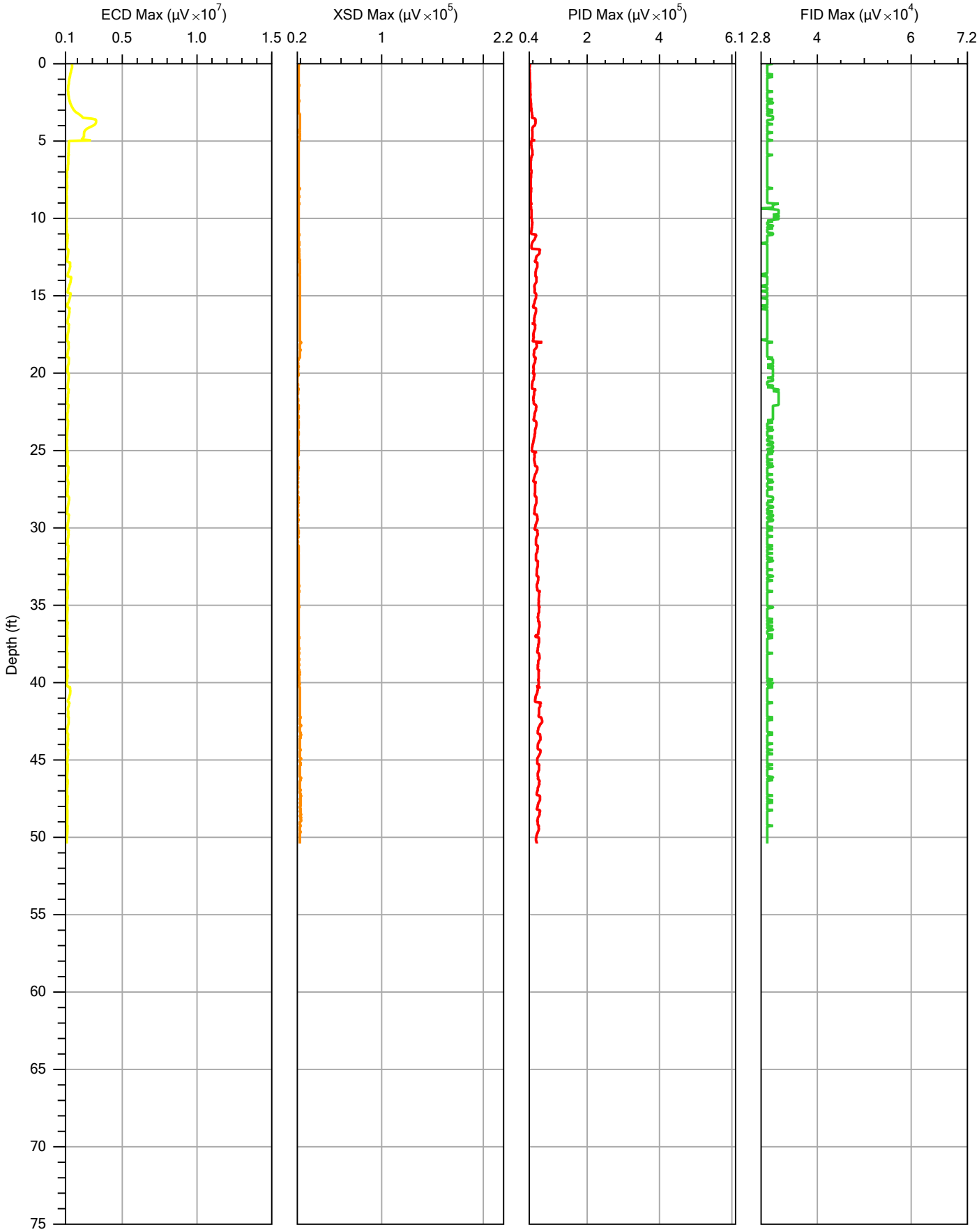
Appendix B – MIP Boring Logs (Common-Scale)



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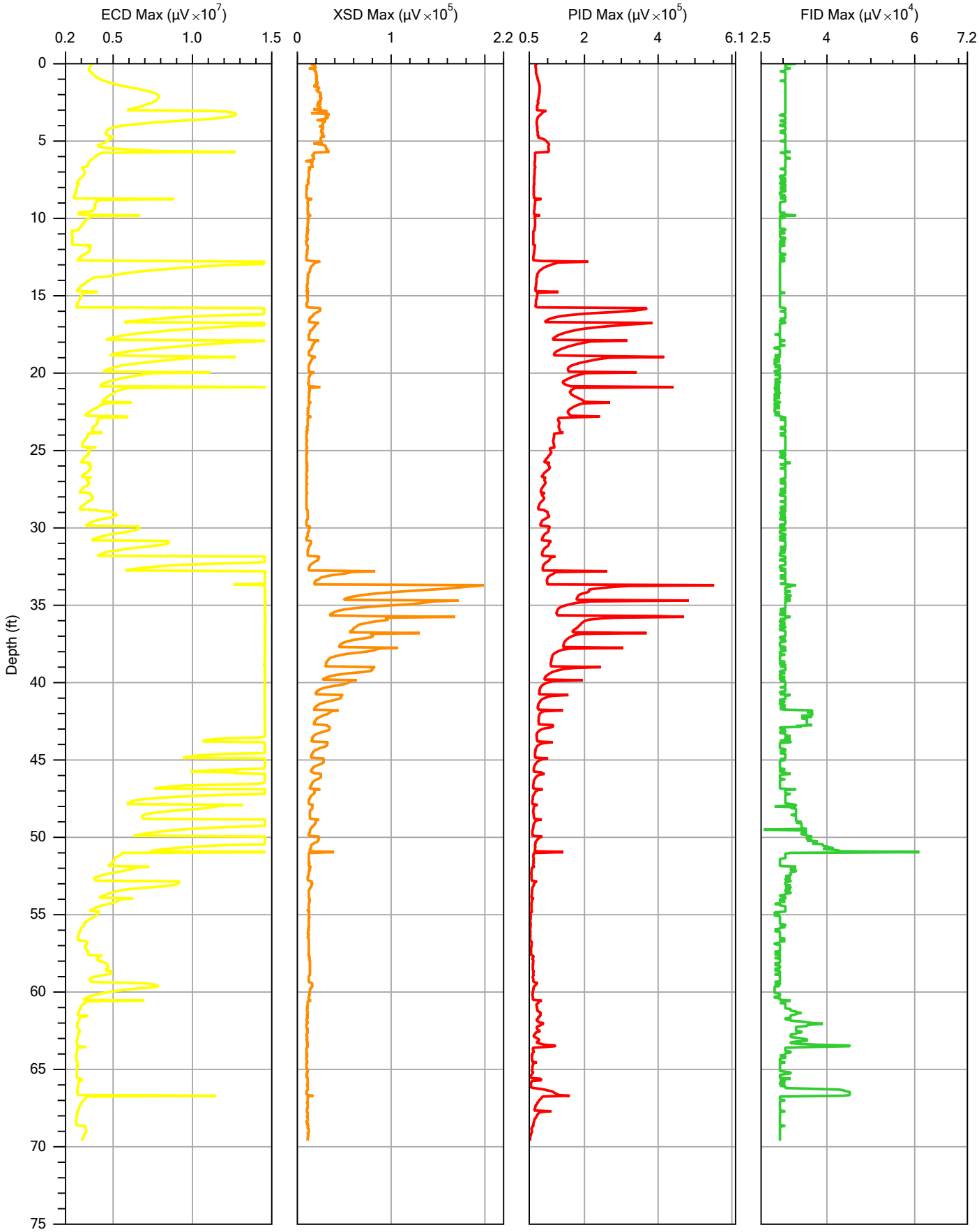

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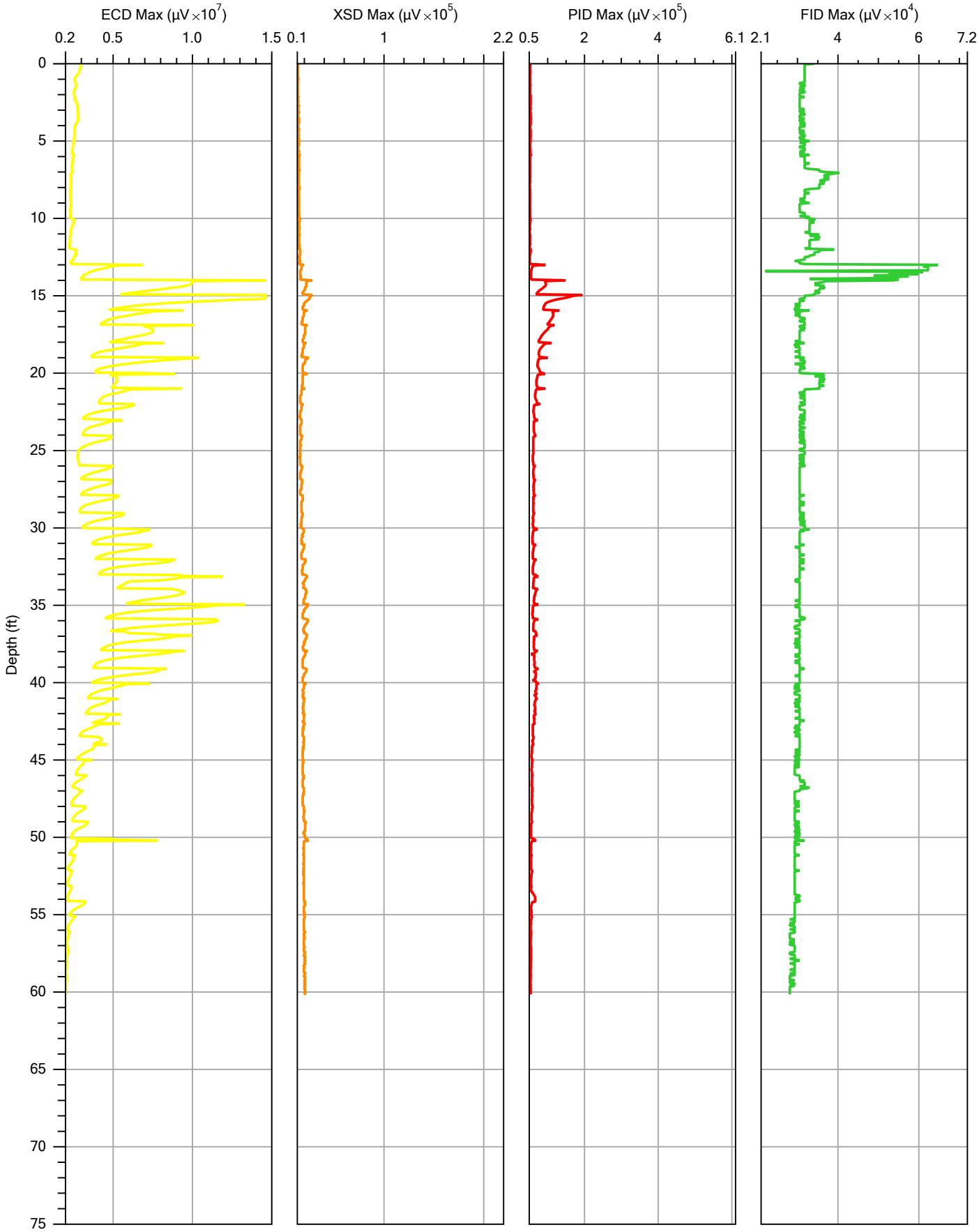

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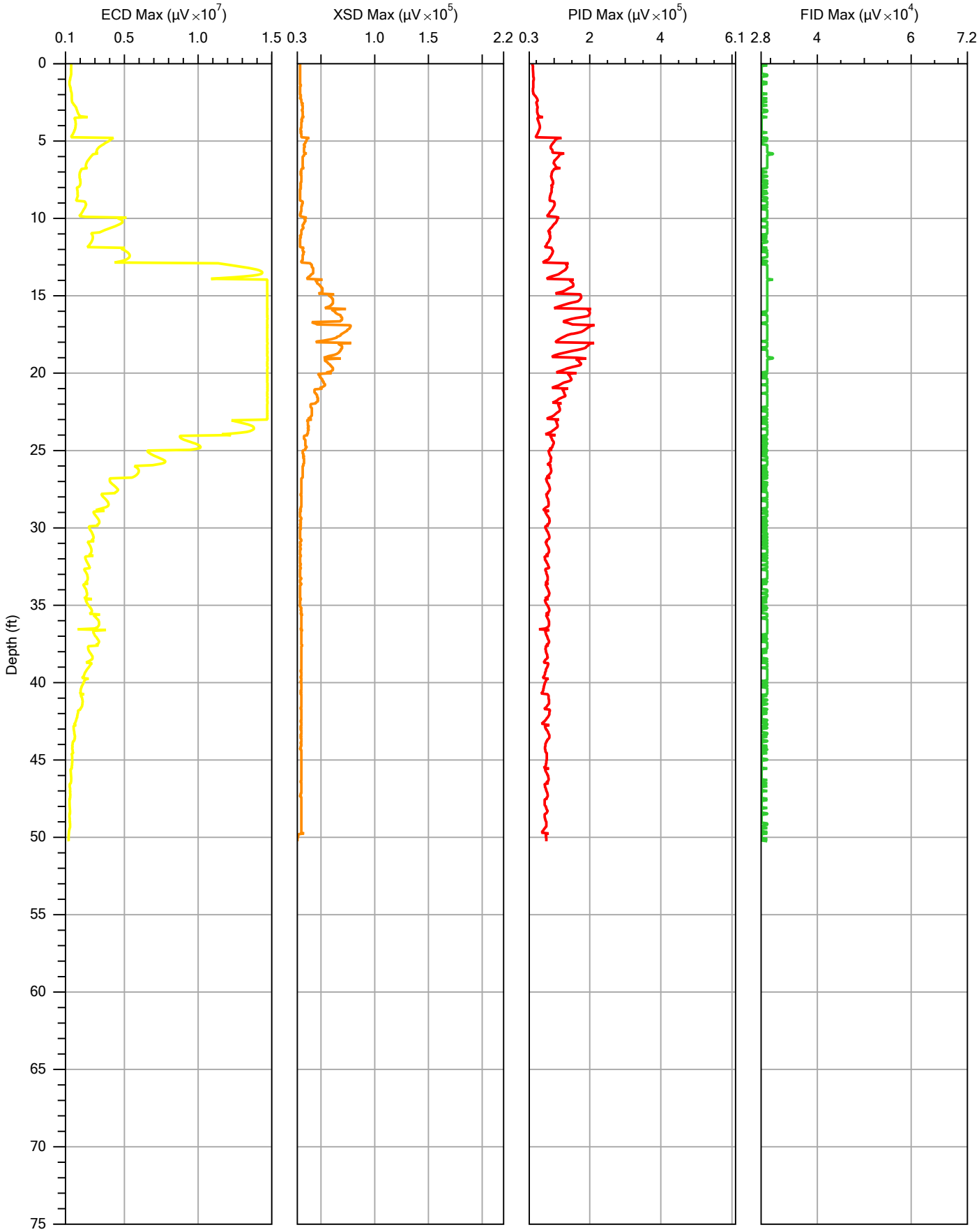

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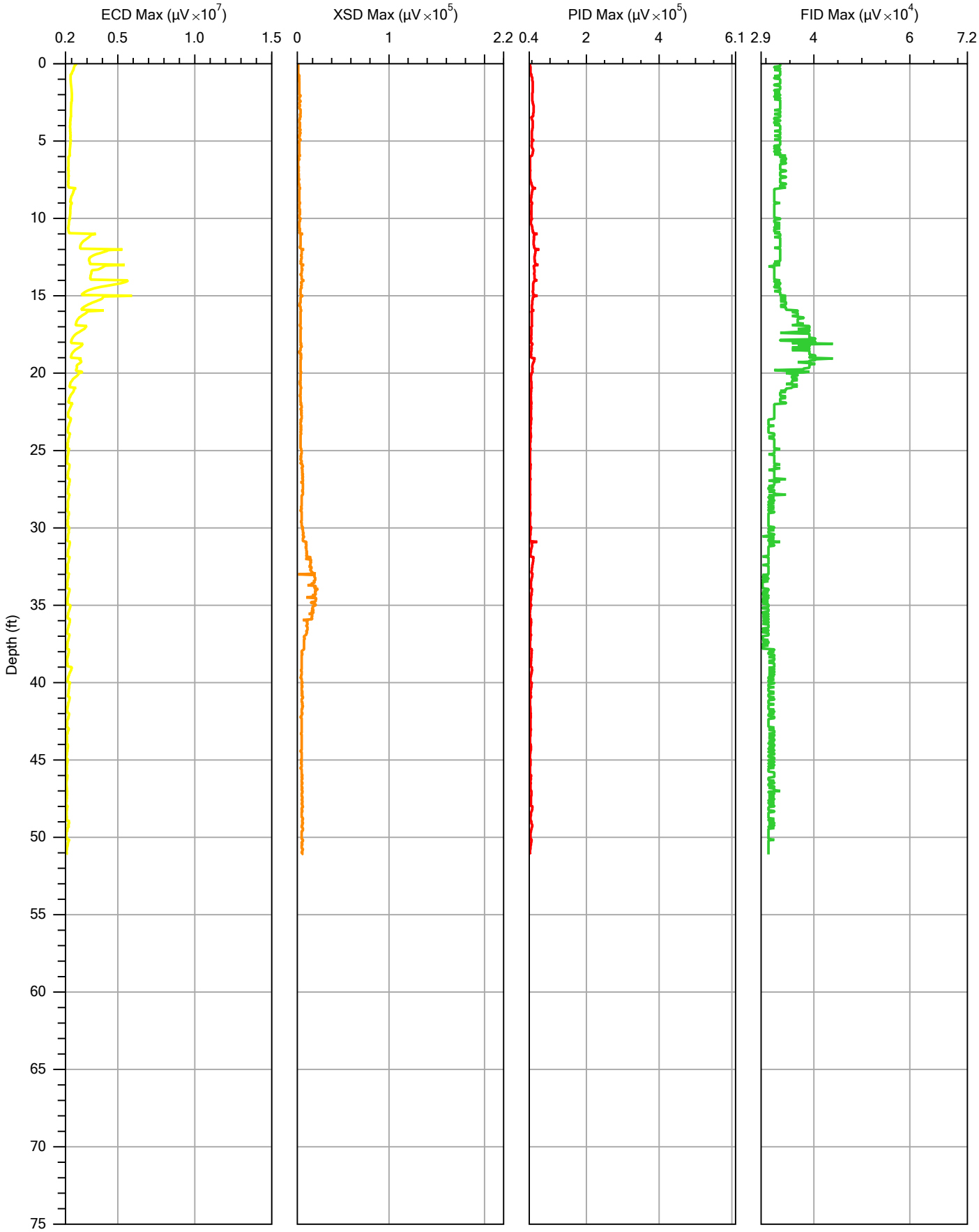

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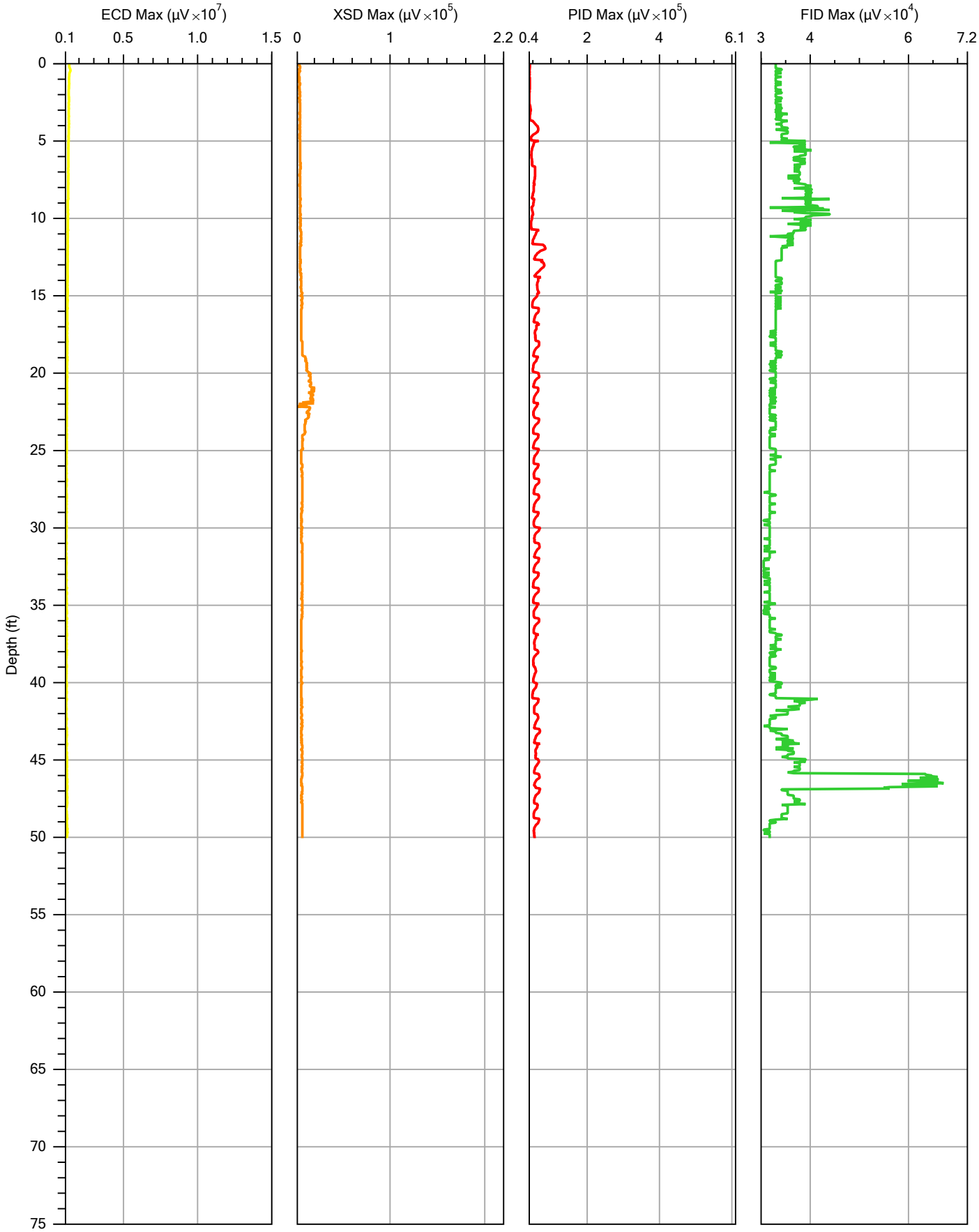

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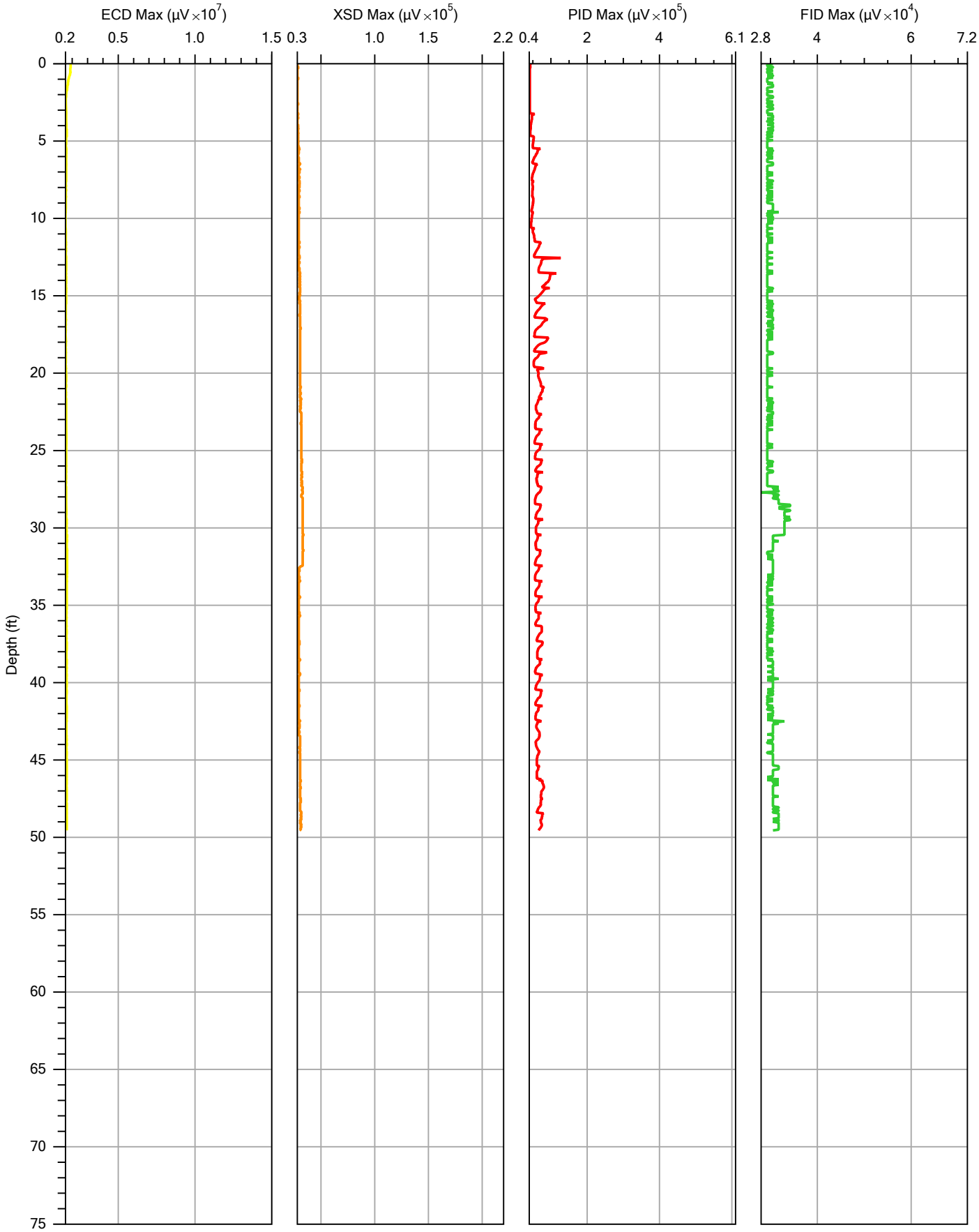

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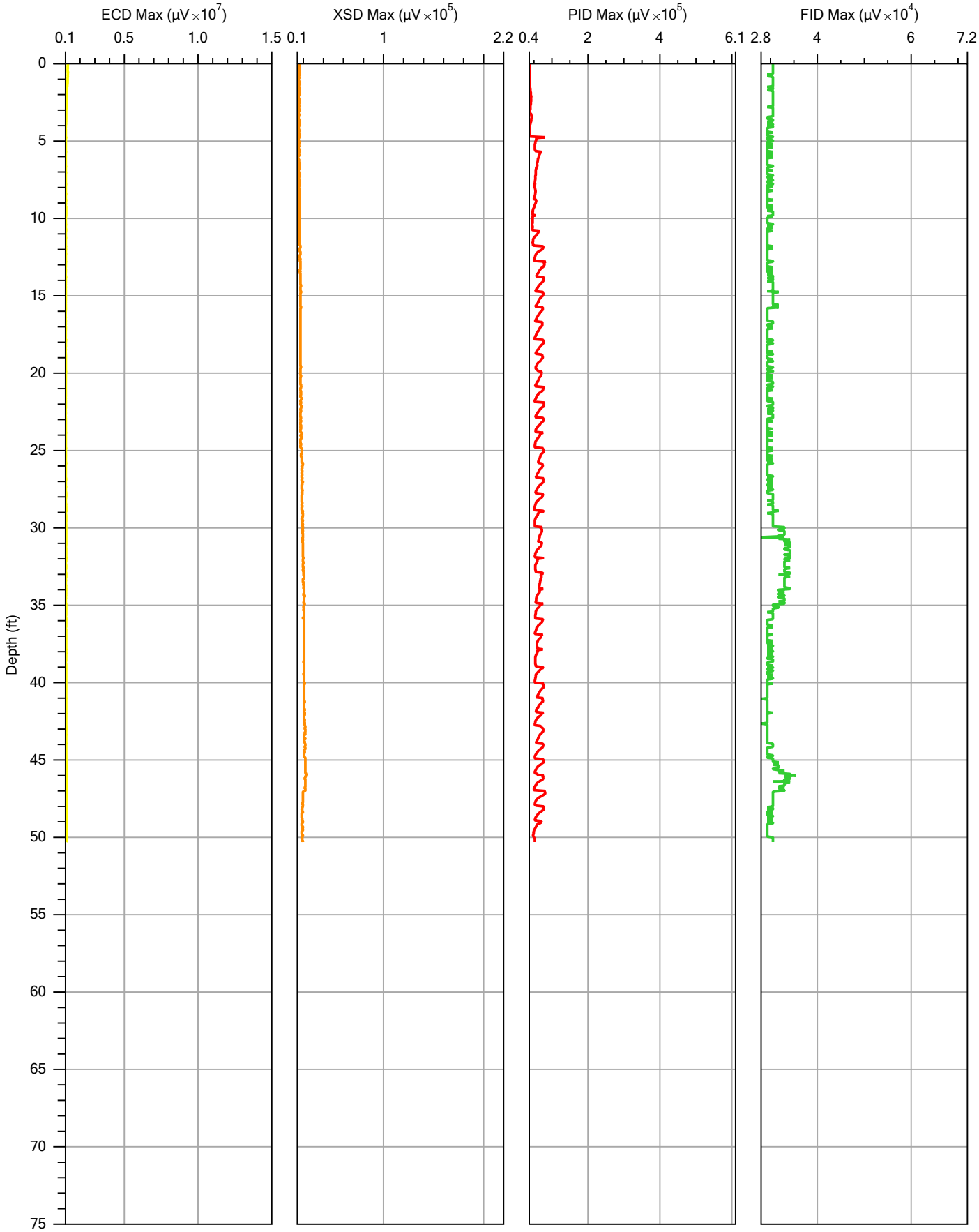

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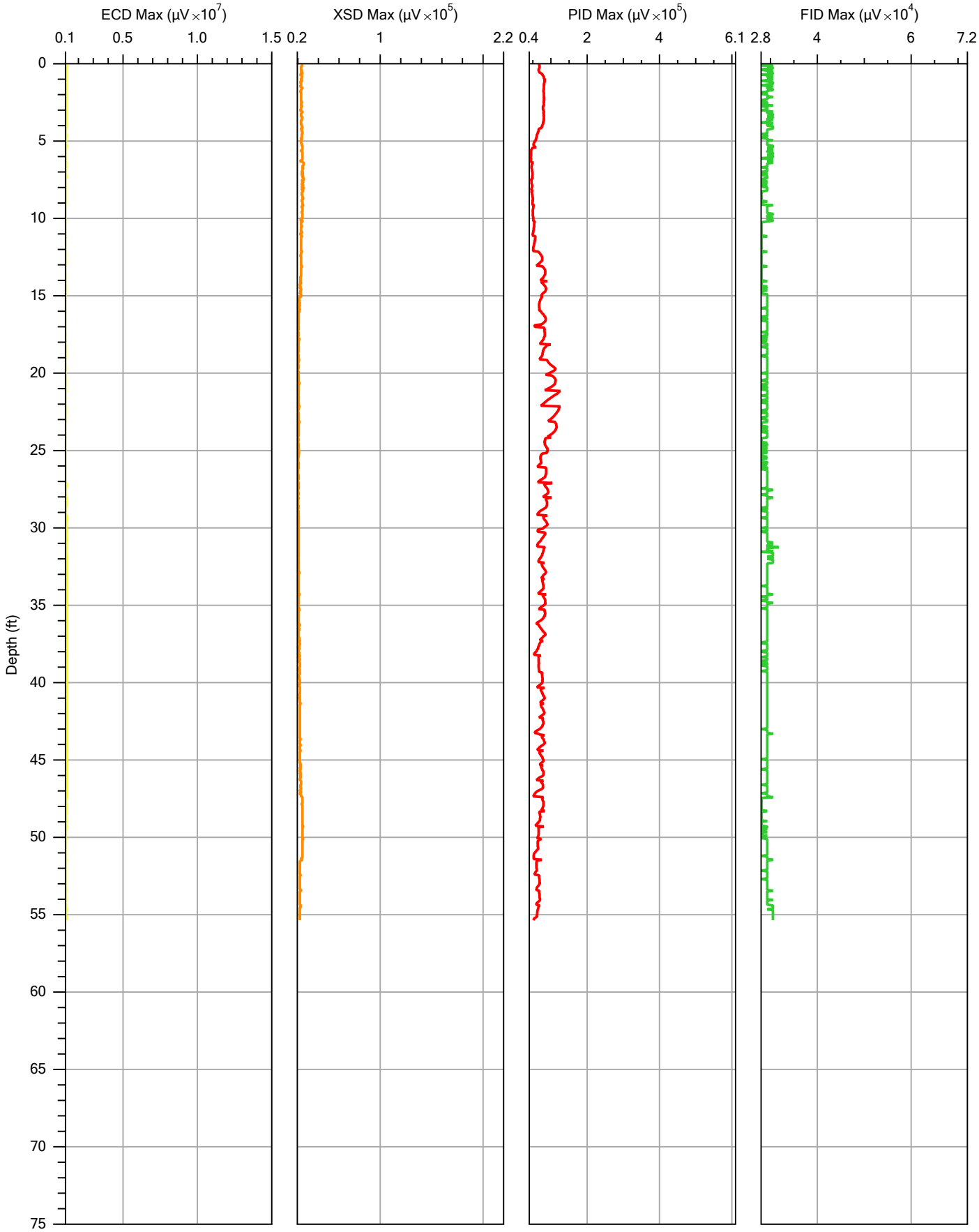

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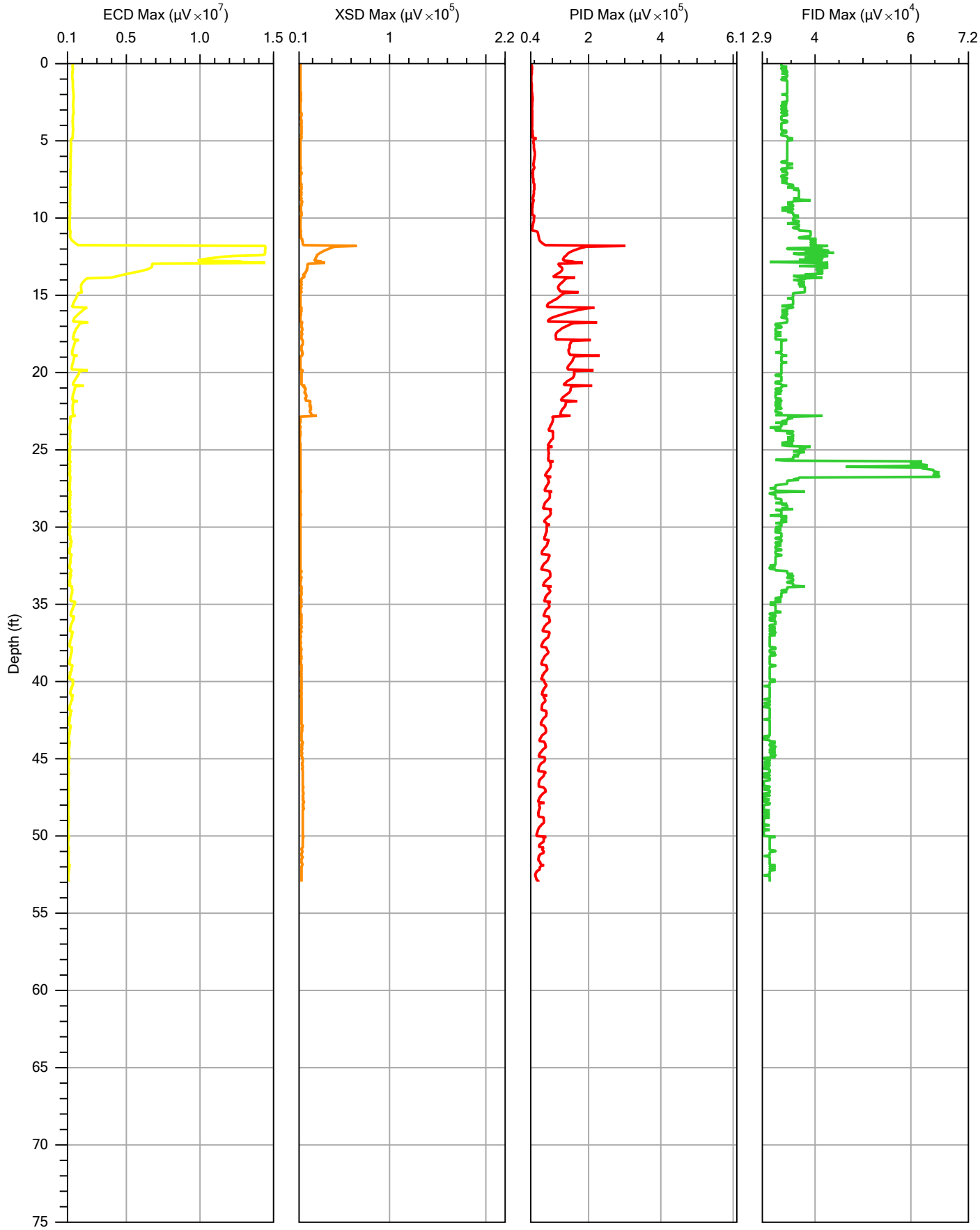

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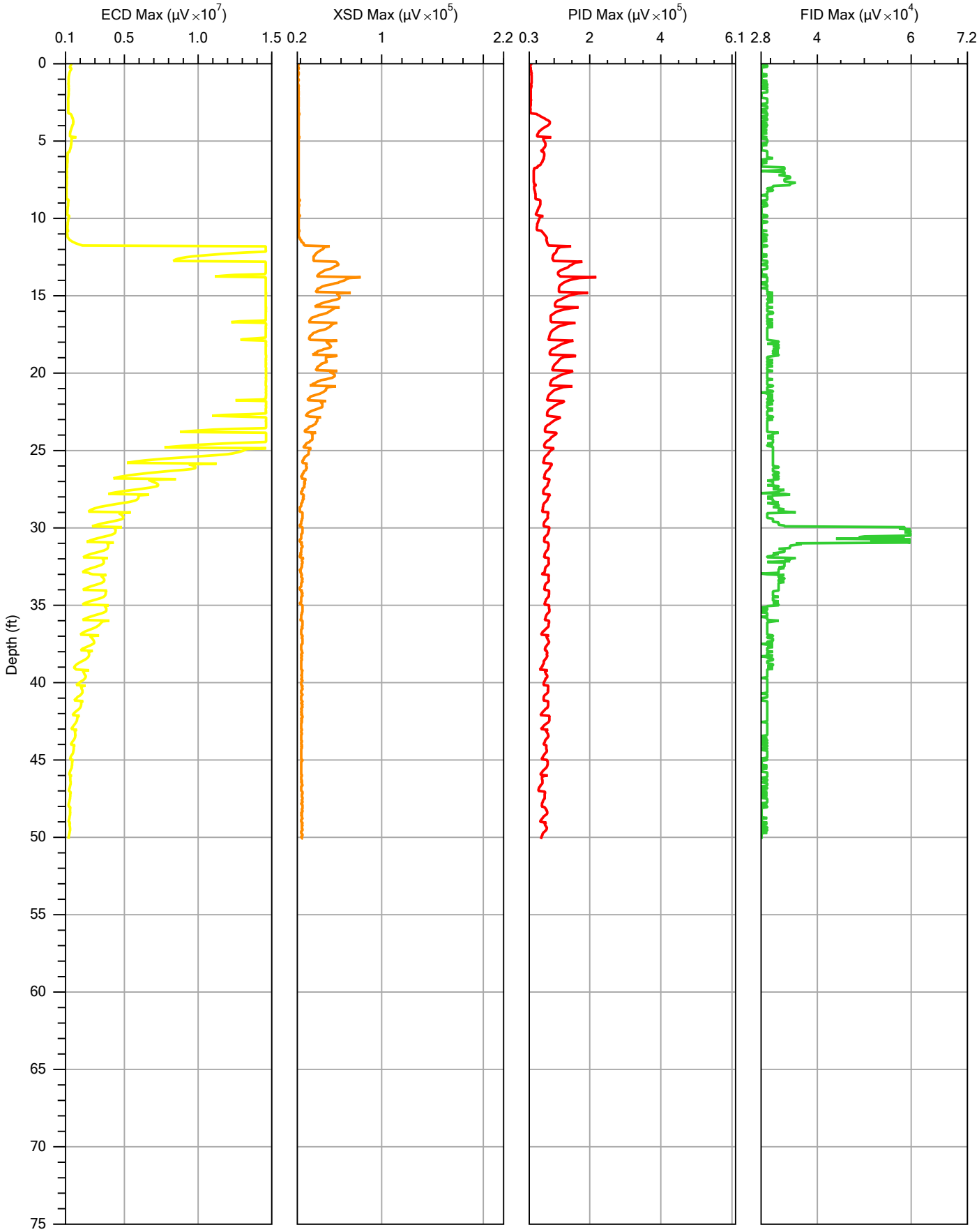

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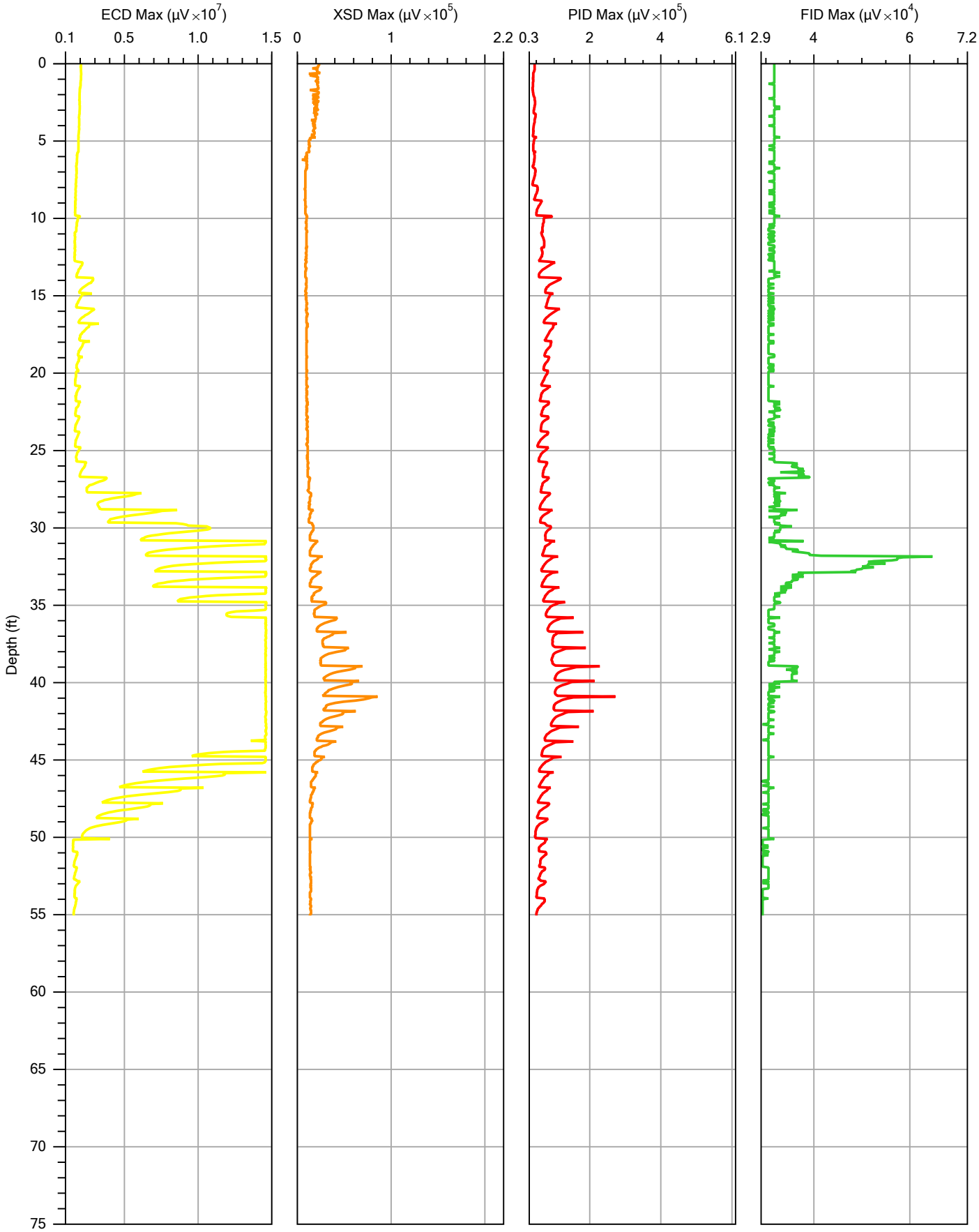
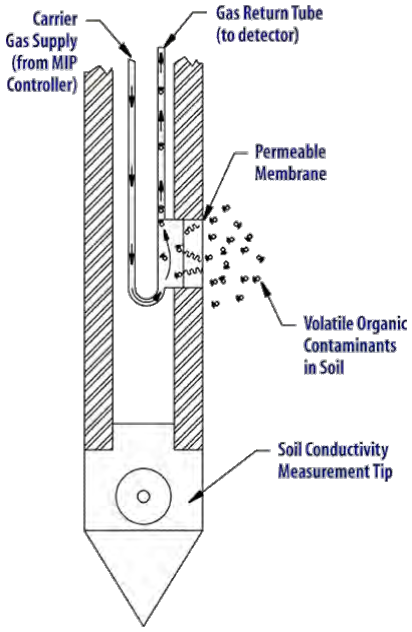


			File: 33.DAT
Company: VIRONEX	Operator: Jeff Paul		Date: 6/9/2014
Project ID: CPT-33	Client: CRA		Location:

Appendix C – MIP System Overview

The MIP is a direct push system that produces quantitative vertical profiles of volatile organic compound (VOC) concentrations, in relation to lithology, in the subsurface. Multiple vertical profiles, or borings, may be advanced to develop more complex visual representations of site contamination, such as transects, three dimensional models, and interactive maps. This system provides real-time information which allows users to make timely decisions during the mobilization of equipment.

The MIP system operates by heating the soil and groundwater adjacent to the probe to 120 degrees Celsius to volatize VOCs in the immediate vicinity of the MIP membrane. This allows for the volatized VOCs to diffuse across the membrane into a closed inert gas loop that carries these vapors to a series of detectors housed at the surface. Each detector produces a continuous profile, which is plotted with respect to depth. Each detector operates differently and therefore can detect different compounds. Vironex operates the MIP system with an electron capture detector (ECD), halogen specific detector (XSD), photo-ionization detector (PID), and flame-ionization detector (FID). For this project a CPT cone was used instead of the soil conductivity measurement tip on the MIP for soil types. More information regarding the operation of each detector is provided below.



Equipment:

- CPT Rig
- CPT Cone
- MIP Controller (Nitrogen Flow and Heater)
- Geoprobe FC 5000 Computer
- HP 5890 Gas Chromatograph
- ECD (Electron Capture Detector)
- XSD (Halogen Specific Detector)
- PID (Photo Ionization Detector) 10.0 eV Lamp
- FID (Flame Ionization Detector)
- 200' Trunkline
- MIP 6520 Heater Block
- 1.75" O.D. Drive Rods

Detector Details

- ECD – Electron Capture Detector uses a radioactive Beta emitter (electrons) to ionize some of the carrier gas and produce a current between a biased pair of electrodes. When organic molecules contain electronegative functional groups, such as halogens, phosphorous, and nitro groups pass by the detector, they capture some of the electrons and reduce the current measured between the electrodes.
- XSD – The Halogen Specific Detector converts compounds containing halogens to their oxidation products and free halogen atoms by oxidative pyrolysis. These halogen atoms are adsorbed onto the activated platinum surface of the detector probe assembly resulting in an

increased thermionic emission. This emission current provides a corresponding voltage that is measured via an electrometer circuit in the detector controller.

- PID – Photo Ionization Detector sample stream flows through the detector's reaction chamber where it is continuously irradiated with high energy ultraviolet light. When compounds are present that have a lower ionization potential than that of the irradiation energy (10.0 electron volts with standard lamp) they are ionized. The ions formed are collected in an electrical field, producing an ion current that is proportional to compound concentration. The ion current is amplified and output by the gas chromatograph's electrometer.
- FID – Flame Ionization Detector consists of a hydrogen/air flame and a collector plate. The effluent from the GC (trunkline) passes through the flame, which breaks down organic molecules and produces ions. The ions are collected on a biased electrode and produce an electric signal.

MIP Data Collected

- Depth - Data is collected from twenty data points per foot. 0.05', 0.10', 0.15', etc…
- Speed / Advancement Rate - Speed data is measured/collected in feet per minute (ft/min). Speed is an indication of the physical advancement rate of the MIP probe. Speed of the MIP probe can vary due to operator advancement and dense soil types. Speed log can provide soil type information which can be correlated with electrical conductivity. Lower advancement speed, correlated with lower conductivity or larger grained soils would more than likely be associated with dense or compacted sands.
- Temperature - Temperature data is measured/collected in Degrees Celsius. Temperature is an indication of the physical temperature of the MIP block. Minimum and Maximum temperature is collected at each vertical interval. Vironex's temperature protocol indicates that the MIP probe temperature shall maintain a minimum temperature of 75 Degrees Celsius.
- Pressure - Pressure data is measured/collected in PSI. Pressure is an indication of the internal pressure of the nitrogen lines located within the trunkline and the pressure behind the membrane. Minimum and Maximum temperature is collected at each vertical interval. Geoprobe's temperature protocol indicates that the MIP probe pressure shall not exceed 1.5 PSI difference from baseline.
- Detector (XSD, ECD, PID, FID) - Detector responses are measured/collected in micro Volts (uV). Detector responses are an indication of relative contaminant responses. Minimum and Maximum detector responses are collected at each vertical interval.

Response Testing

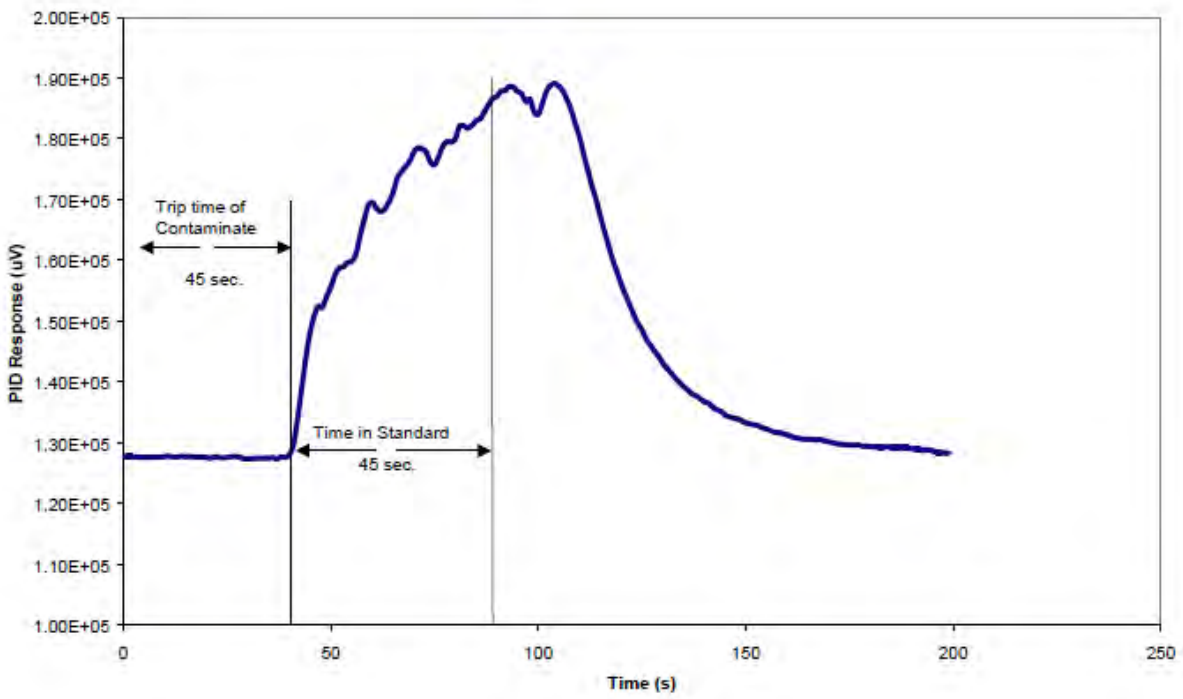
Response testing is an integral part of ensuring the quality of data from the MIP system. Response testing must be conducted before and after each log. This will ensure the validity of the data and the integrity of the system. Response testing also provides for comparison of data for later MIP logs at a particular site. However, results of the response test may change due to membrane wear from soil contact and abrasion.

Prior to conducting a response test, a response test standard solution is prepared by adding an appropriate volume of stock standard solution to 0.5 liters of clean water in a suitable measuring container (beaker or graduated cylinder) to produce a working standard, for example, 10 µL of 50 mg/mL concentration stock standard is added to 0.5 liters of water to yield a 1mg/L working standard. Generally, response test standard solutions are prepared using trichloroethene and toluene. However, response test standard solutions may be prepared based on the specific contaminants of concern at a

site if necessary. Also prior to conducting the response test, the MIP is placed in clean water until detector response stabilization has occurred.

The working standard is poured into a 2-inch diameter by 30-inch long PVC or stainless steel pipe that is closed at one end. A stabilized MIP is inserted in the working standard for the duration of 30 seconds (Note: in the response test shown below, the MIP was inserted into the working standard for the duration of 45 seconds). The working standard cannot be reused after a response test.

The results of the response test are shown on the MIP data acquisition unit (shown below). The trip time is measured by recording the time between the moment when the MIP is placed in the working standard solution and the response of the detectors, as viewed on the MIP data acquisition unit. The baseline and peak response value are also recorded for comparison with other MIP response tests. The trip time is entered manually into the data acquisition system account for the time it takes for compounds in the subsurface to travel the length of the trunkline during the MIP boring.



PID Response Test – 10 ppm Benzene

APPENDIX I

PERMITS

CONTRA COSTA
HEALTH SERVICES

CONTRA COSTA
ENVIRONMENTAL HEALTH DIVISION
2120 DIAMOND BOULEVARD, SUITE 200
CONCORD, CA 94520
(925) 692-2500
www.cocoeh.org

Well Permit

PERMIT NUMBER:	**14B-1180**	**PE NUMBER:**	**4301**
DATE RECEIVED:	**15 MAY 2014**	**PR NUMBER:**	**62859**

Permit Approved/Issued by: Ed Diaz **Date Issued: 20 MAY 2014 Date Expires: 21 NOV 2014**

Environmental Health Specialist

NEW WELL	(13) CPT	WELL ABANDONMENT	REPAIR

The issuance of this permit by Contra Costa County Environmental Health Division does not guarantee a satisfactory and an indefinite operation of any well. Permit expires in 180 calendar days from date of approval. Permits are non-transferable, and can be suspended or revoked. If more time is required for the project, a time extension may be granted if reasons warrant it in writing.

PROJECT SITE INFORMATION

Site Address:	**1705 CONTRA COSTA BLVD, PLEASANT HILL**		
APN:	**150 103 016**	**Lot/Parcel #:**	
Subdivision #:		**Minor Subdivision #:**	

DRILLER / CONSULTANT INFORMATION

Driller:	**GREGG DRILLING & TESTING**	**Contact Person:**	**C. PRUNER**
Phone #:	**925-313-5800**	**FAX#:**	**925-313-0302**
Consultant:	**CONESTOGA ROVERS & ASSOC.**	**Contact Person:**	**CHEVRON STATION MANAGER**
Phone #:	**925-685-8691 (CHEVRON)**	**FAX#:**	**510-420-9170**

LEGAL OWNER INFORMATION

Property Owner	**MB ENTERPRISES INC.**	**Responsible Party:**	**SAME**
Owner Address:	**4430 DEERFIELD WY**	**Address:**	
City/State/Zip:	**DANVILLE, CA 94506**	**City/State/Zip:**	
Phone #:	**925-736-7751**	**Phone#**	

Prior to any drilling construction or destruction of a well, requests for inspection appointment must be received 48 hours in advance (excluding weekends, holidays and Mandatory County Furlough Days) by faxing your written request to (925) 692-2504 or email to ehlu@hsd.cccounty.us. Voice mail messages are not acceptable.

Well drillers must possess a valid C-57 license and must have on file a performance bond of $5,000.00 with Contra Costa County before commencing with any well construction, destruction or repairs.

WELL PERMIT CONDITIONS:

1. Proper annular seals and surface construction features are to be installed and required water analyses completed within 30 days of commencing drilling.
2. Monitoring well/soil boring shall be destroyed pursuant to County regulations within 30 days of completing monitoring activities.
3. OTHER:_____

Final Approval by: _____ **Date:** _____

APPENDIX J

NORCAL's GEOPHYSICAL REPORT

NORCAL GEOPHYSICAL CONSULTANTS, INC.

June 11, 2014

Ms. Alissa Beerling
Conestoga-Rovers & Associates
5900 Hollis Street, Suite A
Emeryville, CA 94608

Subject: Geophysical Survey
Chevron Station #96817
1705 Contra Costa Boulevard
Pleasant Hill, California

NORCAL Job No: 14-462.183

Dear Ms. Beerling:

This report presents the findings of a geophysical survey performed by NORCAL Geophysical Consultants, Inc. at the active Chevron Service Station at the subject address. The field survey was conducted on May 21st and 22nd, 2014 by NORCAL California Professional Geophysicist David Hagin PGp 1033 and Senior Geophysical Technician Travis W. Black. Logistical support, site and safety information were provided on site by Ms. Celena Hernandez and Ms. Charley Austin of Conestoga-Rovers & Associates (CRA).

1.0 SCOPE OF WORK and SITE DESCRIPTION

The scope of work, as outlined by CRA, includes locating detectable subsurface utilities or other subsurface features within specific exterior portions of the service station (excluding the canopy area streetward), as indicated on Plate 1 by the green dashed line. The area of investigation is a flat, asphalt surfaced lot on the southwest corner of the intersection of Contra Costa Boulevard and Doris Drive. A central building, pump islands/canopy, car wash, vacuum, air/water cabinet and several planters and station signs are found onsite. A reinforced concrete pad that was apparently part of a former remediation system is located to the south of the car wash. At the time of the survey the ground surface was dry. We performed the utility location survey as part of an ongoing remediation plan currently managed by CRA. The current phase of this project involves the planned drilling of eight monitoring wells (MW-A through MW-H) and 13 Cone Penetration Test locations (CPT-21 through CPT-33).

321A BLODGETT STREET • COTATI, CA 94931 • TELEPHONE (707) 796-7170 • FAX (707) 796-7175
www.norcalgeophysical.com

2.0 FIELD INVESTIGATIONS

2.1 EQUIPMENT

We investigated the designated survey area using the electromagnetic line locating/metal detection (EMLL) and ground penetrating radar (GPR) methods. The EMLL method was used in the electromagnetic conduction, ambient and metal detection (MD) modes. The conduction mode was used to locate metal utilities that are accessible from the surface in at least one location. This is typically done by applying a current to a line by directly connecting the transmitter to the exposed utility through a vault or a hose bib and operating a receiver to trace respective lines. The ambient procedure was used to locate utilities that exhibit currents already flowing on the line (passive signals). The most common passive signals are generated by live electric lines, water lines acting as electrical grounds and metal pipes re-radiating radio signals.

The MD mode is used to locate metal utilities that are not accessible at the surface and isolated buried objects such as USTs, utility vaults, and other metallic features or debris. This is done by holding the transmitter-receiver unit above the ground and continuously scanning over the surface. Metallic utilities and isolated objects will produce a response indicating when the unit is directly over the metal object.

The GPR method was used to confirm the location of the utilities detected with the EMLL, and to locate possible non-metallic utilities. Since GPR depth of detection is based on site specific soil conditions, not all subsurface features are detectable. Descriptions of the MD, EMLL, and GPR methods are provided in Appendix A.

2.2 SITE SURVEY

We investigated the designated survey area for detectable underground utilities and other potential subsurface features. The locations of all detected utilities were identified on the ground surface with marking paint. A brief description of our field procedures is presented below:

- Site Reconnaissance: We visually inspected the immediate area to locate visible utility vaults, valves, clean-outs, meters, hose bibs, etc.

- EMLL Direct Connect and Induction Survey: We traced accessible utilities using the EMLL direct connect and induction methods, as described above.

- EMLL Ambient Survey: We used the EMLL ambient procedure to investigate the survey area for non-accessible utilities emitting a passive signal, as described above.

- EMLL Metal Detection (MD) Survey: We scanned the survey area with the MD to investigate for metal utilities that were not accessible at the surface. Since the specific type of utility (i.e. water, gas, etc.) cannot be determined by this method, they are referred to as undifferentiated utilities. We also used the MD method to investigate the survey area for possible buried metal objects.

- GPR Survey: We obtained GPR data throughout the survey area. We examined the GPR records for reflection patterns characteristic of underground utilities and other potential subsurface objects, as well as changes in fill material that may be associated with utility corridors or USTs.

- Field Survey Map: Upon completion of the area survey, we drafted a scaled site diagram showing the limits of the geophysical survey, structures or above ground cultural features that are in close proximity to the site, and the locations of detected subsurface objects and utility alignments. The physical locations of detected features were obtained by measuring distances from specific features on site.

3.0 LIMITATIONS

All of the geophysical methods used for this investigation have limitations that may not allow for the detection of certain subsurface features due to size, depth, subsurface conditions or the proximity of above ground objects. The specific limitations for each method are described in Appendix A.

Any above-ground metallic items create noise and limit the detection abilities of the EMLL and MD. Also, highly conductive soils tend to limit the depth of investigation for the GPR.

4.0 RESULTS

The results of the geophysical investigation are summarized on the Geophysical Survey Map presented on Plate 1. Features mapped in the field by NORCAL personnel have been drafted to produce the Geophysical Survey Map. This map depicts the locations of pertinent above-ground site features, the survey limits and the locations of detected underground utility lines, MD and GPR anomalies, as well as the proposed monitoring well (MW) and Cone Penetration Test (CPT) locations as listed in the map legend. Concrete and reinforced concrete are differentiated by instrument response.

We detected numerous electrical lines as well as water, vapor recovery, vent, and a portion of a storm drain line. Although the above-ground portion of the remediation system has been removed, many of the vapor recovery lines were apparently abandoned in place. In addition,

several undifferentiated (unknown) utility lines were detected. A telecommunications line was detected by others with access to a sealed vault and tracer line. The locations and positions of these lines are presented on Plate 1.

Additionally, anticipated utilities that were not specifically detected include sanitary sewer, car wash drain, water, natural gas, air and vacuum lines. It is expected that a sanitary sewer line extends from the building's restroom facility toward the sewer main that we visually identified in Linda Drive (not shown on map). The car wash facility requires both water and drain; however, we did not detect either. It is likely that the water line to the west services the car wash, so the water line may enter the car wash on the west side. Based on the direction of the surface drain within the car wash (toward the west) and the presence of the storm drain cleanout to the west it is likely that the car wash drain line extends from the structure toward the west. No natural gas line was detected; however, there were no meters or other visual indications of the presence of a natural gas line on site.

Two relatively large GPR anomalies were detected in the western car wash driveway. The sources of the anomalies are unknown; however, they produced shallow, flat-lying reflectors not typical of a UST. Additionally, one MD anomaly was detected in front of the station building.

Subsurface features typically cannot be accurately defined within the UST pad area due to interference caused by the rebar, subsurface metal, pumps and any cathodic protection system. Additionally, the USTs commonly exhibit reradiating effects from the nearby electrical lines, pumps, or other sources of Radio Frequency Interference (RFI).

It is our understanding that CRA may choose to relocate or abandon any proposed boring locations that are within five feet of a detected subsurface feature. Proposed boring locations that fall within five feet of a GPR or MD anomaly or any detected utility line include: MW-B, MW-E, CPT-22, CPT-23, CPT-24, CPT-25 and CPT-29.

5.0 STANDARD CARE AND WARRANTY

The scope of NORCAL's services for this project consisted of using geophysical methods to explore the area of investigation for underground utilities. The accuracy of our findings is subject to specific site conditions and limitations inherent to the techniques used. We performed our services in a manner consistent with the level of skill ordinarily exercised by members of the profession currently employing similar methods. No warranty, with respect to the performance of services or products delivered under this agreement, expressed or implied, is made by NORCAL.

We appreciate having the opportunity to provide our geophysical services to CRA. If you have any questions, or require additional geophysical services, please do not hesitate to call.

Respectfully,

NORCAL Geophysical Consultants, Inc.

David T. Hagin
Professional Geophysicist, PGp 1033

DTH/KGB/tt

Enclosure:	Plate 1:	GEOPHYSICAL SURVEY MAP
	Appendix A:	GEOPHYSICAL METHODOLOGY

Appendix A

GEOPHYSICAL METHODOLOGY, INSTRUMENTATION, DATA ANALYSIS, AND LIMITATIONS

Appendix A

GROUND PENETRATING RADAR (GPR)

Methodology

Ground penetrating radar is a method that provides a continuous, high resolution cross-section depicting variations in the electrical properties of the shallow subsurface. The method is particularly sensitive to variations in electrical conductivity and electrical permittivity (the ability of a material to hold a charge when an electrical field is applied).

The GPR system operates by radiating electromagnetic pulses into the ground from a transducer (antenna) as it is moved along a traverse. Since most earth materials are transparent to electromagnetic energy, the signal spreads downward into the subsurface. However, when the signal encounters a variation in electrical permittivity, a portion of the electromagnetic energy is reflected back to the surface. When the signal encounters a metal object, all of the incident energy is reflected. The reflected signals are received by the same transducer and are printed in cross-section form on a graphical recorder. Changes in subsurface reflection character on the GPR records can provide information regarding the location of USTs, sumps, buried debris, underground utilities, and variations in the shallow stratigraphy.

Instrumentation

The GPR system typically used is a Geophysical Survey Systems, Inc. SIR-2000 Subsurface Interface Radar Systems equipped with a 500 megahertz (MHz) transducer. This transducer is near the center of the available frequency range and is used to provide high resolution at shallow depths.

Data Analysis

GPR records are examined to identify reflection patterns characteristic of USTs, utilities, and other buried debris. Typically, USTs are manifested by broad localized hyperbolic (upside-down "U" shape) reflection patterns that vary in intensity. The intensity of a reflection pattern is usually dependent upon the condition of the respective UST, its burial depth, and the type of fill over the UST. Utilities and other buried debris are typically manifested by narrow localized hyperbolic reflections that also vary in intensity.

Limitations

The ability to detect subsurface targets is dependent on site specific conditions. These conditions include depth of burial, the size or diameter of the target, the condition of the specific target in question, the type of backfill material associated with the target, and the surface conditions over the target. Under ideal conditions, the GPR can generally detect objects buried to approximately

six feet. However, as the clay content in the subsurface increases, the GPR depth of detection decreases. Therefore, it is possible that on-site soil conditions and target features may limit the depth of detection to the upper one to two feet below ground surface.

ELECTROMAGNETIC LINE LOCATION and METAL DETECTION (EMLL/MD)

Methodology

Electromagnetic line location techniques are used to locate the magnetic field resulting from an electric current flowing on a line. These magnetic fields can arise from currents already on the line (passive) or currents applied to a line with a transmitter (active). The most common passive signals are generated by live electric lines and re-radiated radio signals. Active signals can be introduced by connecting the transmitter to the line at accessible locations or by induction.

The detection of underground utilities is affected by the composition and construction of the line in question. Utilities detectable with standard line location techniques include any continuously connected metal pipes, cables/wires or utilities with tracer wires. Unless the utilities carry a passive current, they must be exposed at the surface or in accessible utility vaults. These generally include water, electric, natural gas, telephone, and other conduits related to facility operations. Utilities that are not detectable using standard electromagnetic line location techniques include those made of non-electrically conductive materials such as PVC, fiberglass, vitrified clay, and pipes with insulated connections.

Buried objects can also be detected, without direct contact, by using the induction mode. This is used to detect buried near surface metal objects such as rebar, manhole covers, USTs, and various metallic debris. The induction mode is used by holding the transmitter-receiver unit above the ground and continuously scanning the surface. The unit utilizes two orthogonal coils that are separated by a specified distance. One of the coils transmits an electromagnetic signal (primary magnetic field) which in turn produces a secondary magnetic field about the subsurface metal object. Since the receiver coil is orthogonal to the transmitter coil, it is unaffected by the primary field. Therefore, the secondary magnetic fields produced by buried metal object will generate an audible response from the unit. The peak of this response indicates when the unit is directly over the metal object.

Instrumentation

The instrumentation typically used for the EMLL survey consists of a Radio Detection RD-4000 and a Fisher TW-6 inductive pipe and cable locator.

Data Analysis

The EMLL instrumentation indicates the presence of buried metal by emitting an audible tone; there are no recorded data to analyze. Therefore, the locations of buried objects detected with the EMLL method are marked on the ground surface during the survey.

Limitations

The detection of underground utilities is dependent upon the composition and construction of the line of interest, as well as depth. Utilities detectable with standard line location techniques include any continuously connected metal pipes, cables/wires or utilities with tracer wires. Unless carrying a passive current these utilities must be exposed at the surface or accessible in utility vaults. These generally include water, electric, natural gas, telephone, and other conduits related to facility operations. Utilities that may not be detectable using standard electromagnetic line location techniques include certain abandoned utilities, utilities not exposed at the ground surface, or those made of non-electrically conductive materials such as PVC, fiberglass, vitrified clay, and metal pipes with insulating joints. Pipes generally deeper than about five to seven feet may not be detected.

APPENDIX K

CRA STANDARD FIELD PROCEDURES

STANDARD FIELD PROCEDURES FOR CONE PENETROMETER TESTING SOIL BORING AND SAMPLING

This document presents standard field methods for drilling and sampling Cone Penetrometer Testing (CPT) soil borings. These procedures are designed to comply with Federal, State and local regulatory guidelines. Specific field procedures are summarized below.

Use of CPT for logging and soil and groundwater sampling requires separate borings. Typically an initial boring is advanced to estimate soil and groundwater characteristics as described below. To collect soil samples a separate boring must be advanced using a soil sampling device. If groundwater samples are collected, another separate boring must be advanced using a groundwater sampling device. Specific field procedures are summarized below.

CONE PENETROMETER TESTING (CPT)

Cone Penetrometer Testing is performed by a trained geologist or engineer working under the supervision of a California Professional Geologist (PG) or a Certified Engineering Geologist (CEG). Cone Penetrometer Tests (CPT) are carried out by pushing an integrated electronic piezocone into the subsurface. The piezocone is pushed using a specially designed CPT rig with a force capacity of 20 to 25 tons. The piezocones are capable of recording the following parameters:

Tip Resistance (Qc)
Sleeve Friction (Fs)
Pore Water Pressure (U)
Bulk Soil Resistivity (rho) - with an added module

A compression cone is used for each CPT sounding. Piezocones with rated load capacities of 5, 10 or 20 tons are used depending on soil conditions. The 5 and 10 ton cones have a tip area of 10 sq. cm. and a friction sleeve area of 150 sq. cm. The 20 ton cones have a tip area of 15 sq. cm. and a friction sleeve area of 250 sq. cm. A pore water pressure filter is located directly behind the cone tip. Each of the filters is saturated in glycerin under vacuum pressure prior to penetration. Pore Pressure Dissipation Tests (PPDT) are recorded at 5 second intervals during pauses in penetration. The equilibrium pore water pressure from the dissipation test can be used to identify the depth to groundwater.

The measured parameters are printed simultaneously on a printer and stored on a computer disk for future analysis. All CPTs are carried out in accordance with ASTM D-3441. A complete set of baseline readings is taken prior to each sounding to determine any zero load offsets.

The inferred stratigraphic profile at each CPT location is included on the plotted CPT logs. The stratigraphic interpretations are based on relationships between cone bearing (Qc) and friction ratio (Rf). The friction ratio is a calculated parameter (Fs/Qc) used in conjunction with the cone bearing to identify the soil type. Generally, soft cohesive soils have low cone bearing pressures and high friction ratios. Cohesionless soils (sands) have high cone bearing pressures and low

friction ratios. The classification of soils is based on correlations developed by Robertson et al (1986). It is not always possible to clearly identify a soil type based on Qc and Rf alone. Correlation with existing soils information and analysis of pore water pressure measurements should also be used in determining soil type.

CPT and sampling equipment are steam-cleaned or washed prior to work and between borings to prevent cross-contamination. Sampling equipment is washed between samples with trisodium phosphate or an equivalent EPA-approved detergent.

After the CPT probes are removed, the borings are filled to the ground surface with cement grout poured or pumped through a tremie pipe.

SOIL BORINGS

Objectives

Soil samples are collected to characterize subsurface lithology, assess whether the soils exhibit obvious hydrocarbon or other compound vapor or staining, and to collect samples for analysis at a State-certified laboratory. All borings are logged using the ASTM D2488-06 Unified Soil Classification System by a trained geologist working under the supervision of a California Professional Geologist (PG).

Soil Boring and Sampling

Prior to drilling, the first 8 feet of the boring are cleared using an air or water knife and vacuum extraction or hand auger. This minimizes the potential for impacting utilities. Soil borings are typically drilled using hollow-stem augers or direct-push technologies such as the Geoprobe®. Soil samples are collected at least every five ft to characterize the subsurface sediments and for possible chemical analysis. Additional soil samples are collected near the water table and at lithologic changes. Samples are collected using lined split-barrel or equivalent samplers driven into undisturbed sediments at the bottom of the borehole.

Drilling and sampling equipment is steam-cleaned prior to drilling and between borings to prevent cross-contamination. Sampling equipment is washed between samples with trisodium phosphate or an equivalent EPA-approved detergent.

Sample Analysis

Sampling tubes chosen for analysis are trimmed of excess soil and capped with Teflon tape and plastic end caps. Soil samples are labeled and stored at or below 4° C on either crushed or dry ice, depending upon local regulations. Samples are transported under chain-of-custody to a State-certified analytic laboratory.

Field Screening

One of the remaining tubes is partially emptied leaving about one-third of the soil in the tube. The tube is capped with plastic end caps and set aside to allow hydrocarbons to volatilize from the soil. After ten to fifteen minutes, a portable volatile vapor analyzer measures volatile hydrocarbon vapor concentrations in the tube headspace, extracting the vapor through a slit in the cap. Volatile vapor analyzer measurements are used along with the field observations, odors, stratigraphy and groundwater depth to select soil samples for analysis.

Water Sampling
Water samples, if they are collected from the boring, are either collected using a driven Hydropunch® type sampler or are collected from the open borehole using bailers. The groundwater samples are decanted into the appropriate containers supplied by the analytic laboratory. Samples are labeled, placed in protective foam sleeves, stored on crushed ice at or below 4°C, and transported under chain-of-custody to the laboratory. Laboratory-supplied trip blanks accompany the samples and are analyzed to check for cross-contamination. An equipment blank may be analyzed if non-dedicated sampling equipment is used.

Grouting
If the borings are not completed as wells, the borings are filled to the ground surface with cement grout poured or pumped through a tremie pipe.

Waste Handling and Disposal
Soil cuttings from drilling activities are usually stockpiled onsite and covered by plastic sheeting. At least three individual soil samples are collected from the stockpiles and composited at the analytic laboratory. The composite sample is analyzed for the same constituents analyzed in the borehole samples in addition to any analytes required by the receiving disposal facility. Soil cuttings are transported by licensed waste haulers and disposed in secure, licensed facilities based on the composite analytic results.

Groundwater removed during development and sampling is typically stored onsite in sealed 55-gallon drums. Each drum is labeled with the drum number, date of generation, suspected contents, generator identification and consultant contact. Upon receipt of analytic results, the water is either pumped out using a vacuum truck for transport to a licensed waste treatment/disposal facility or the individual drums are picked up and transported to the waste facility where the drum contents are removed and appropriately disposed.

APPENDIX L

LABORATORY ANALYTICAL REPORTS

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

Chevron c/o CRA
Suite A
5900 Hollis Street
Emeryville CA 94608

June 09, 2014

Project: 96817

Submittal Date: 06/05/2014
Group Number: 1479542
PO Number: 96817
Release Number: WAITE
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LL) #
CPT-23-S-5-140602 Grab Soil	7487993
CPT-23-S-10-140603 Grab Soil	7487994
CPT-23-S-13-140603 Grab Soil	7487995
CPT-23-S-18-140603 Grab Soil	7487996
CPT-23-S-23-140603 Grab Soil	7487997
CPT-23-S-28-140603 Grab Soil	7487998
CPT-23-S-33-140603 Grab Soil	7487999
CPT-23-S-38-140603 Grab Soil	7488000
CPT-23-S-43-140603 Grab Soil	7488001
CPT-23-S-48-140603 Grab Soil	7488002
CPT-23-S-53-140603 Grab Soil	7488003
CPT-23-S-58-140603 Grab Soil	7488004
CPT-23-S-60-140603 Grab Soil	7488005
CPT-23-S-66-140603 Grab Soil	7488006
CPT-23-S-69-140603 Grab Soil	7488007
CPT-23-S-73.5-140603 Grab Soil	7488008
CPT-23-S-63-140603 Grab Soil	7488009

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	Chevron c/o CRA	Attn: Brandon Wilken
ELECTRONIC COPY TO	CRA	Attn: Celina Hernandez

Respectfully Submitted,

Natalie R. Luciano
Senior Specialist

(717) 556-7258

eurofins
Lancaster Laboratories Environmental
2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

Sample Description: **CPT-23-S-5-140602 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-23

LL Sample # SW 7487993
LL Group # 1479542
Account # 11997

Project Name: 96817

Collected: 06/02/2014 11:20 by BY

Submitted: 06/05/2014 09:30
Reported: 06/09/2014 16:07

Chevron c/o CRA
Suite A
5900 Hollis Street
Emeryville CA 94608

P2305

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		mg/kg	mg/kg	mg/kg	
10237	cis-1,2-Dichloroethene	156-59-2	1.9	0.048	0.24	48.17
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.048	0.24	48.17
10237	Tetrachloroethene	127-18-4	27	0.48	2.4	481.7
10237	Trichloroethene	79-01-6	1.6	0.048	0.24	48.17
10237	Vinyl Chloride	75-01-4	N.D.	0.048	0.24	48.17

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	R141571AA	06/06/2014 07:22	Stephanie A Selis	48.17
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	R141572AA	06/06/2014 19:05	Andrea E Lando	481.7
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201415634711	06/05/2014 13:36	Larry E Bevins	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201415634711	06/05/2014 13:36	Larry E Bevins	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201415634711	06/05/2014 13:34	Larry E Bevins	n.a.

*=This limit was used in the evaluation of the final result

eurofins
Lancaster Laboratories Environmental
2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

Sample Description: **CPT-23-S-10-140603 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-23

LL Sample # SW 7487994
LL Group # 1479542
Account # 11997

Project Name: 96817

Collected: 06/03/2014 08:40 by BY

Submitted: 06/05/2014 09:30
Reported: 06/09/2014 16:07

Chevron c/o CRA
Suite A
5900 Hollis Street
Emeryville CA 94608

P2310

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	0.35	0.052	0.26	52.08
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.052	0.26	52.08
10237	Tetrachloroethene	127-18-4	13	0.052	0.26	52.08
10237	Trichloroethene	79-01-6	0.31	0.052	0.26	52.08
10237	Vinyl Chloride	75-01-4	N.D.	0.052	0.26	52.08

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	R141571AA	06/06/2014 07:45	Stephanie A Selis	52.08
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201415634711	06/05/2014 13:38	Larry E Bevins	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201415634711	06/05/2014 13:38	Larry E Bevins	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201415634711	06/05/2014 12:49	Larry E Bevins	n.a.

*=This limit was used in the evaluation of the final result

eurofins
Lancaster Laboratories Environmental
2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

Sample Description: CPT-23-S-13-140603 Grab Soil
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-23

LL Sample # SW 7487995
LL Group # 1479542
Account # 11997

Project Name: 96817

Collected: 06/03/2014 08:55 by BY

Submitted: 06/05/2014 09:30
Reported: 06/09/2014 16:07

Chevron c/o CRA
Suite A
5900 Hollis Street
Emeryville CA 94608

P2313

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		mg/kg	mg/kg	mg/kg	
10237	cis-1,2-Dichloroethene	156-59-2	0.048	0.001	0.005	1.01
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.005	1.01
10237	Tetrachloroethene	127-18-4	0.53	0.049	0.25	49.21
10237	Trichloroethene	79-01-6	0.085	0.001	0.005	1.01
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	1.01

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	R141571AA	06/06/2014 09:18	Stephanie A Selis	49.21
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	B141571AA	06/06/2014 15:16	Chelsea B Stong	1.01
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201415634711	06/05/2014 13:38	Larry E Bevins	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201415634711	06/05/2014 13:38	Larry E Bevins	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201415734729	06/05/2014 13:36	Larry E Bevins	n.a.

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Analysis Report

Sample Description: **CPT-23-S-18-140603 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-23

LL Sample # SW 7487996
LL Group # 1479542
Account # 11997

Project Name: 96817

Collected: 06/03/2014 09:03 by BY

Submitted: 06/05/2014 09:30
Reported: 06/09/2014 16:07

Chevron c/o CRA
Suite A
5900 Hollis Street
Emeryville CA 94608

P2318

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	0.002	0.0009	0.005	0.94
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.0009	0.005	0.94
10237	Tetrachloroethene	127-18-4	0.062	0.0009	0.005	0.94
10237	Trichloroethene	79-01-6	0.003	0.0009	0.005	0.94
10237	Vinyl Chloride	75-01-4	N.D.	0.0009	0.005	0.94

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	B141571AA	06/06/2014 15:38	Chelsea B Stong	0.94
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201415634711	06/05/2014 13:38	Larry E Bevins	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201415634711	06/05/2014 13:38	Larry E Bevins	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201415634711	06/05/2014 12:54	Larry E Bevins	n.a.

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Analysis Report

Sample Description: **CPT-23-S-23-140603 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-23

LL Sample # SW 7487997
LL Group # 1479542
Account # 11997

Project Name: 96817

Collected: 06/03/2014 09:10 by BY

Submitted: 06/05/2014 09:30
Reported: 06/09/2014 16:07

Chevron c/o CRA
Suite A
5900 Hollis Street
Emeryville CA 94608

P2323

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	0.003	0.0009	0.005	0.95
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.0009	0.005	0.95
10237	Tetrachloroethene	127-18-4	0.056	0.0009	0.005	0.95
10237	Trichloroethene	79-01-6	0.002	0.0009	0.005	0.95
10237	Vinyl Chloride	75-01-4	N.D.	0.0009	0.005	0.95

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	B141571AA	06/06/2014 12:16	Chelsea B Stong	0.95
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201415634711	06/05/2014 13:38	Larry E Bevins	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201415634711	06/05/2014 13:38	Larry E Bevins	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201415634711	06/05/2014 12:57	Larry E Bevins	n.a.

*=This limit was used in the evaluation of the final result

Sample Description: **CPT-23-S-28-140603 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-23

LL Sample # SW 7487998
LL Group # 1479542
Account # 11997

Project Name: 96817

Collected: 06/03/2014 09:21 by BY

Submitted: 06/05/2014 09:30
Reported: 06/09/2014 16:07

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5900 Hollis Street
Emeryville CA 94608

P2328

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	0.002	0.001	0.005	1.09
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.005	1.09
10237	Tetrachloroethene	127-18-4	0.15	0.001	0.005	1.09
10237	Trichloroethene	79-01-6	0.004	0.001	0.005	1.09
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	1.09

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	B141571AA	06/06/2014 12:38	Chelsea B Stong	1.09
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201415634711	06/05/2014 13:37	Larry E Bevins	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201415634711	06/05/2014 13:37	Larry E Bevins	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201415634711	06/05/2014 12:59	Larry E Bevins	n.a.

*=This limit was used in the evaluation of the final result

Sample Description: **CPT-23-S-33-140603 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-23

LL Sample # SW 7487999
LL Group # 1479542
Account # 11997

Project Name: 96817

Collected: 06/03/2014 09:32 by BY

Submitted: 06/05/2014 09:30
Reported: 06/09/2014 16:07

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Suite A
5900 Hollis Street
Emeryville CA 94608

P2333

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.20	0.98	196.08
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.20	0.98	196.08
10237	Tetrachloroethene	127-18-4	720	4.9	25	4901.96
10237	Trichloroethene	79-01-6	0.71	0.20	0.98	196.08
10237	Vinyl Chloride	75-01-4	N.D.	0.20	0.98	196.08

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	R141571AA	06/06/2014 08:08	Stephanie A Selis	196.08
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	R141572AA	06/06/2014 19:28	Andrea E Lando	4901.96
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201415634711	06/05/2014 13:37	Larry E Bevins	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201415634711	06/05/2014 13:38	Larry E Bevins	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201415634711	06/05/2014 13:02	Larry E Bevins	n.a.

*=This limit was used in the evaluation of the final result

Sample Description: **CPT-23-S-38-140603 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-23

LL Sample # SW 7488000
LL Group # 1479542
Account # 11997

Project Name: 96817

Collected: 06/03/2014 09:47 by BY

Submitted: 06/05/2014 09:30
Reported: 06/09/2014 16:07

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P2338

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	0.007	0.0009	0.005	0.94
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.0009	0.005	0.94
10237	Tetrachloroethene	127-18-4	2.4	0.047	0.23	46.73
10237	Trichloroethene	79-01-6	0.14	0.0009	0.005	0.94
10237	Vinyl Chloride	75-01-4	N.D.	0.0009	0.005	0.94

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	R141571AA	06/06/2014 09:41	Stephanie A Selis	46.73
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	B141571AA	06/06/2014 16:45	Chelsea B Stong	0.94
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201415634711	06/05/2014 13:37	Larry E Bevins	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201415634711	06/05/2014 13:37	Larry E Bevins	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201415634711	06/05/2014 13:05	Larry E Bevins	n.a.

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Analysis Report

Sample Description: **CPT-23-S-43-140603 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-23

LL Sample # SW 7488001
LL Group # 1479542
Account # 11997

Project Name: 96817

Collected: 06/03/2014 10:00 by BY

Submitted: 06/05/2014 09:30
Reported: 06/09/2014 16:07

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P2343

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.006	1.11
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.006	1.11
10237	Tetrachloroethene	127-18-4	0.071	0.001	0.006	1.11
10237	Trichloroethene	79-01-6	N.D.	0.001	0.006	1.11
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.006	1.11

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	B141571AA	06/06/2014 16:00	Chelsea B Stong	1.11
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201415634711	06/05/2014 13:37	Larry E Bevins	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201415634711	06/05/2014 13:37	Larry E Bevins	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201415634711	06/05/2014 13:08	Larry E Bevins	n.a.

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Analysis Report

Sample Description: **CPT-23-S-48-140603 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-23

LL Sample # SW 7488002
LL Group # 1479542
Account # 11997

Project Name: 96817

Collected: 06/03/2014 10:12 by BY

Submitted: 06/05/2014 09:30
Reported: 06/09/2014 16:07

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P2348

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	0.005	0.001	0.005	1.03
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.005	1.03
10237	Tetrachloroethene	127-18-4	0.79	0.052	0.26	52.08
10237	Trichloroethene	79-01-6	0.014	0.001	0.005	1.03
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	1.03

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	R141571AA	06/06/2014 10:04	Stephanie A Selis	52.08
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	B141571AA	06/06/2014 16:22	Chelsea B Stong	1.03
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201415634711	06/05/2014 13:37	Larry E Bevins	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201415634711	06/05/2014 13:37	Larry E Bevins	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201415634711	06/05/2014 13:11	Larry E Bevins	n.a.

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Analysis Report

Sample Description: **CPT-23-S-53-140603 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-23

LL Sample # SW 7488003
LL Group # 1479542
Account # 11997

Project Name: 96817

Collected: 06/03/2014 10:28 by BY

Submitted: 06/05/2014 09:30
Reported: 06/09/2014 16:07

Chevron c/o CRA
Suite A
5900 Hollis Street
Emeryville CA 94608

P2353

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	0.012	0.0009	0.005	0.91
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.0009	0.005	0.91
10237	Tetrachloroethene	127-18-4	1.8	0.051	0.26	51.12
10237	Trichloroethene	79-01-6	0.018	0.0009	0.005	0.91
10237	Vinyl Chloride	75-01-4	N.D.	0.0009	0.005	0.91

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	R141571AA	06/06/2014 10:27	Stephanie A Selis	51.12
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	B141571AA	06/06/2014 17:08	Chelsea B Stong	0.91
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201415634711	06/05/2014 13:37	Larry E Bevins	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201415634711	06/05/2014 13:37	Larry E Bevins	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201415634711	06/05/2014 13:14	Larry E Bevins	n.a.

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Analysis Report

Sample Description: **CPT-23-S-58-140603 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-23

LL Sample # SW 7488004
LL Group # 1479542
Account # 11997

Project Name: 96817

Collected: 06/03/2014 10:40 by BY

Submitted: 06/05/2014 09:30
Reported: 06/09/2014 16:07

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P2358

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.005	1.08
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.005	1.08
10237	Tetrachloroethene	127-18-4	0.10	0.001	0.005	1.08
10237	Trichloroethene	79-01-6	N.D.	0.001	0.005	1.08
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	1.08

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	B141571AA	06/06/2014 13:01	Chelsea B Stong	1.08
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201415634711	06/05/2014 13:37	Larry E Bevins	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201415634711	06/05/2014 13:37	Larry E Bevins	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201415634711	06/05/2014 13:16	Larry E Bevins	n.a.

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Analysis Report

Sample Description: **CPT-23-S-60-140603 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-23

LL Sample # SW 7488005
LL Group # 1479542
Account # 11997

Project Name: 96817

Collected: 06/03/2014 11:08 by BY

Submitted: 06/05/2014 09:30
Reported: 06/09/2014 16:07

Chevron c/o CRA
Suite A
5900 Hollis Street
Emeryville CA 94608

P2360

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.0009	0.005	0.93
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.0009	0.005	0.93
10237	Tetrachloroethene	127-18-4	0.49	0.046	0.23	46.21
10237	Trichloroethene	79-01-6	0.001	0.0009	0.005	0.93
10237	Vinyl Chloride	75-01-4	N.D.	0.0009	0.005	0.93

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	B141571AA	06/06/2014 13:23	Chelsea B Stong	0.93
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	R141572AA	06/06/2014 19:51	Andrea E Lando	46.21
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201415634711	06/05/2014 13:37	Larry E Bevins	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201415634711	06/05/2014 13:37	Larry E Bevins	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201415634711	06/05/2014 13:19	Larry E Bevins	n.a.

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Analysis Report

Sample Description: **CPT-23-S-66-140603 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-23

LL Sample # SW 7488006
LL Group # 1479542
Account # 11997

Project Name: 96817

Collected: 06/03/2014 11:45 by BY

Submitted: 06/05/2014 09:30
Reported: 06/09/2014 16:07

Chevron c/o CRA
Suite A
5900 Hollis Street
Emeryville CA 94608

P2366

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	0.001	0.001	0.005	1.05
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.005	1.05
10237	Tetrachloroethene	127-18-4	0.15	0.001	0.005	1.05
10237	Trichloroethene	79-01-6	0.002	0.001	0.005	1.05
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	1.05

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	B141571AA	06/06/2014 13:45	Chelsea B Stong	1.05
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201415634711	06/05/2014 13:36	Larry E Bevins	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201415634711	06/05/2014 13:36	Larry E Bevins	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201415634711	06/05/2014 13:22	Larry E Bevins	n.a.

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **CPT-23-S-69-140603 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-23

LL Sample # SW 7488007
LL Group # 1479542
Account # 11997

Project Name: 96817

Collected: 06/03/2014 12:00 by BY

Submitted: 06/05/2014 09:30
Reported: 06/09/2014 16:07

Chevron c/o CRA
Suite A
5900 Hollis Street
Emeryville CA 94608

P2369

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.005	1.01
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.005	1.01
10237	Tetrachloroethene	127-18-4	0.17	0.001	0.005	1.01
10237	Trichloroethene	79-01-6	0.002	0.001	0.005	1.01
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	1.01

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	B141571AA	06/06/2014 14:08	Chelsea B Stong	1.01
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201415634711	06/05/2014 13:36	Larry E Bevins	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201415634711	06/05/2014 13:36	Larry E Bevins	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201415634711	06/05/2014 13:25	Larry E Bevins	n.a.

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **CPT-23-S-73.5-140603 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-23

LL Sample # SW 7488008
LL Group # 1479542
Account # 11997

Project Name: 96817

Collected: 06/03/2014 12:19 by BY

Submitted: 06/05/2014 09:30
Reported: 06/09/2014 16:07

Chevron c/o CRA
Suite A
5900 Hollis Street
Emeryville CA 94608

P2373

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	0.006	0.001	0.005	1.05
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.005	1.05
10237	Tetrachloroethene	127-18-4	1.2	0.053	0.26	52.74
10237	Trichloroethene	79-01-6	0.007	0.001	0.005	1.05
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	1.05

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	R141571AA	06/06/2014 06:59	Stephanie A Selis	52.74
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	B141571AA	06/06/2014 14:31	Chelsea B Stong	1.05
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201415634711	06/05/2014 13:36	Larry E Bevins	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201415634711	06/05/2014 13:36	Larry E Bevins	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201415634711	06/05/2014 13:28	Larry E Bevins	n.a.

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **CPT-23-S-63-140603 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-23

LL Sample # SW 7488009
LL Group # 1479542
Account # 11997

Project Name: 96817

Collected: 06/03/2014 11:30 by BY

Submitted: 06/05/2014 09:30
Reported: 06/09/2014 16:07

Chevron c/o CRA
Suite A
5900 Hollis Street
Emeryville CA 94608

P2363

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.0009	0.005	0.95
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.0009	0.005	0.95
10237	Tetrachloroethene	127-18-4	0.035	0.0009	0.005	0.95
10237	Trichloroethene	79-01-6	N.D.	0.0009	0.005	0.95
10237	Vinyl Chloride	75-01-4	N.D.	0.0009	0.005	0.95

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	B141571AA	06/06/2014 14:53	Chelsea B Stong	0.95
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201415634711	06/05/2014 13:37	Larry E Bevins	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201415634711	06/05/2014 13:36	Larry E Bevins	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201415634711	06/05/2014 13:30	Larry E Bevins	n.a.

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: Chevron c/o CRA Group Number: 1479542
Reported: 06/09/14 at 04:07 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B141571AA	Sample number(s): 7487995-7487998,7488000-7488009								
cis-1,2-Dichloroethene	N.D.	0.001	0.005	mg/kg	107	103	80-120	4	30
trans-1,2-Dichloroethene	N.D.	0.001	0.005	mg/kg	111	105	79-120	5	30
Tetrachloroethene	N.D.	0.001	0.005	mg/kg	103	98	78-120	5	30
Trichloroethene	N.D.	0.001	0.005	mg/kg	108	102	80-120	6	30
Vinyl Chloride	N.D.	0.001	0.005	mg/kg	103	94	59-120	9	30
Batch number: R141571AA	Sample number(s): 7487993-7487995,7487999-7488000,7488002-7488003,7488008								
cis-1,2-Dichloroethene	N.D.	0.050	0.25	mg/kg	108	102	80-120	6	30
trans-1,2-Dichloroethene	N.D.	0.050	0.25	mg/kg	113	104	79-120	9	30
Tetrachloroethene	N.D.	0.050	0.25	mg/kg	110	98	78-120	11	30
Trichloroethene	N.D.	0.050	0.25	mg/kg	111	99	80-120	11	30
Vinyl Chloride	N.D.	0.050	0.25	mg/kg	93	82	59-120	13	30
Batch number: R141572AA	Sample number(s): 7487993,7487999,7488005								
Tetrachloroethene	N.D.	0.050	0.25	mg/kg	98	100	78-120	3	30

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 8260 Ext. Soil Master w/GRO
Batch number: B141571AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7487995	106	104	101	91
7487996	108	107	97	93
7487997	105	101	101	89
7487998	103	99	101	92
7488000	107	107	96	91
7488001	108	109	97	91
7488002	108	104	97	90
7488003	107	101	96	91
7488004	105	103	99	93
7488005	106	102	98	93
7488006	105	101	97	92
7488007	105	102	100	93
7488008	105	102	96	94

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Chevron c/o CRA
Reported: 06/09/14 at 04:07 PM

Group Number: 1479542

Surrogate Quality Control

7488009	105	101	97	92
Blank	106	106	97	93
LCS	103	101	102	101
LCSD	102	101	101	99
Limits:	50-141	54-135	52-141	50-131

Analysis Name: 8260 Ext. Soil Master w/GRO
Batch number: R141571AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7487993	80	77	80	72
7487994	90	87	86	79
7487999	78	78	73	66
Blank	92	94	92	84
LCS	96	98	100	92
LCSD	92	91	91	87
Limits:	50-141	54-135	52-141	50-131

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Chevron California Region Analysis Request/Chain of Custody

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Ø6Ø413-Ø2 P. 1 OF 2

Acct. # 11997 Group # 1479542 For Lancaster Laboratories use only Sample # 748793-488009

PAGE 1 OF 2

Instructions on reverse side correspond with circled numbers.

1 Client Information

Facility #: CHEVRON 96817

WBS:

Site Address: 1705 CONTRA COSTA BLVD., PLEASANT HILL, CA

Chevron PM: BRIAN WAITE

Lead Consultant: CRA

Consultant/Office: EMERYVILLE

Consultant Project Mgr.: CELINA HERNANDEZ

Consultant Phone #: 510 593 4728

Sampler: BELEW YIFRU

SCR #:

- ☐ Results in Dry Weight
- ☐ J value reporting needed
- ☐ Must meet lowest detection limits possible for 8260 compounds
- ☐ 8021 MTBE Confirmation
- ☐ Confirm highest hit by 8260
- ☐ Confirm all hits by 8260
- ☐ Run _____ oxy's on highest hit
- ☐ Run _____ oxy's on all hits

2 Sample Identification	Collected Date	Collected Time	3 Grab	Composite	4 Matrix: Soil ☒	Sediment ☐	Water: Ground ☐	Potable ☐	Surface ☐	NPDES ☐	Oil ☐	Air ☐	Total Number of Containers	BTEX + MTBE 8021 ☐ / 8260 ☐	TPH GRO 8015 ☐ / 8260 ☐	TPH 8015 MOD DRO	Silica Gel Cleanup	8260 Full Scan	Oxygenates	Total Lead	Dissolved Lead	Method	Method	8260 SEE COMMENTS			
CPT-23-5	6/2/14	11:20	X		X								1											X			
CPT-23-10	6/3/14	8:40											↓											↓			
CPT-23-13	6/3/14	8:55																									
CPT-23-18	6/3/14	9:03																									
CPT-23-23	6/3/14	9:10																									
CPT-23-28	6/3/14	9:21																									
CPT-23-33	6/3/14	9:32																									
CPT-23-38	6/3/14	9:47																									
CPT-23-43	6/3/14	1000																									
CPT-23-48	6/3/14	1012																									
CPT-23-53	6/3/14	10:28																									
CPT-23-58	6/3/14	10:40											↓											↓			
~~CPT-23-60~~	~~6/3/14~~	~~1008~~	BY 6/3/14																								

6 Remarks

PCE, TCE, cis-1,2DCE, trans-1,2 DCE, VC

PLEASE SEND RESULTS TO:
bwilken@craworld.com
chernandez@craworld.com

7 Turnaround Time Requested (TAT) (please circle)

Standard | 5 day | 4 day

72 hour | 48 hour | 24 hour

8 Data Package Options (please circle if required)

Type I - Full | Type VI (Raw Data)

Relinquished by	Date	Time	Received by	Date	Time
BELEW YIFRU	6/3/14	18:00	SECURE LOCATION	6/3/14	18:00
[signature]	6/4/14	0935	[signature]	Ø4JUN14	Ø935
Relinquished by ~~Commerical Carrier~~: [signature] Ø4JUN14 1636			Received by: UPS		

~~UPS~~ ____ ~~FedEx~~ ____ Other ____

Temperature Upon Receipt 0.5-4.6 °C

Custody Seals Intact? Yes No

[signature] 6.5.14 9:30

Chevron California Region Analysis Request/Chain of Custody

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Acct. # 11997 Group # 479542 Sample # 7487993-488009 PAGE 2 OF 2

For Lancaster Laboratories use only

Instructions on reverse side correspond with circled numbers.

1 Client Information

Facility # CHEVRON 96817

WBS

Site Address 1705 CONTRA COSTA BLVD., PLEASANT HILL, CA

Chevron PM BRIAN WAITE

Lead Consultant

Consultant/Office EMERYVILLE CA

Consultant Project Mgr. CELINA HERNANDEZ

Consultant Phone # 510 593 4728

Sampler BELEW YIFRU

SCR #:

- ☐ Results in Dry Weight
- ☐ J value reporting needed
- ☐ Must meet lowest detection limits possible for 8260 compounds
- ☐ 8021 MTBE Confirmation
- ☐ Confirm highest hit by 8260
- ☐ Confirm all hits by 8260
- ☐ Run _____ oxy's on highest hit
- ☐ Run _____ oxy's on all hits

2 Sample Identification / 3 / 4 Matrix / 5 Analyses Requested

Sample Identification	Collected Date	Collected Time	Grab	Composite	Soil	Water (Sediment / Ground / Surface / Potable / NPDES)	Oil / Air	Total Number of Containers	BTEX + MTBE 8021 / 8260	TPH GRO 8015 / 8260	TPH 8015 MOD DRO	Silica Gel Cleanup	8260 Full Scan	Oxygenates	Total Lead	Dissolved Lead	8260 SEE COMMENTS
CPT-23-60'	6/3/14	11:08	X		X			1									X
CPT-23-66'	6/3/14	11:45	↓		↓			↓									↓
CPT-23-69'	6/3/14	12:00	↓		↓			↓									↓
CPT-23-73.5'	6/3/14	12:19	↓		↓			↓									↓
CPT-23-63'	6/3/14	1130	X		X			1									X

6 Remarks

PCE, TCE, Cis-1,2DCE trans-1,2 DCE, VC

PLEASE SEND RESULTS TO:

bwilken@craworld.com

chernandez@craworld.com

7 Turnaround Time Requested (TAT) (please circle)

Standard | 5 day | 4 day

72 hour | 48 hour | 24 hour

8 Data Package Options (please circle if required)

Type I - Full | Type VI (Raw Data)

9

Relinquished by	Date	Time	Received by	Date	Time
BELEW YIFRU	6/3/14	18:00	SECURE LOCATION	6/3/14	18:00
[signature]	6/4/14	0935	[signature]	04 JUN 14	0935
Relinquished by Commerical Carrier: [signature] 04 JUN 14			Received by	Date	Time
UPS ____ FedEx ____ Other 1634			UPS		

Temperature Upon Receipt 0.5-4.6 °C

Custody Seals Intact? Yes No

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Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
µg	microgram(s)	**mg**	milligram(s)
mL	milliliter(s)	**L**	liter(s)
m3	cubic meter(s)	**µL**	microliter(s)
		pg/L	picogram/liter

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

Data Qualifiers:

C – result confirmed by reanalysis.

J - estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

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ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

CRA
Suite A
5900 Hollis Street
Emeryville CA 94608

June 20, 2014

Project: 96817

Submittal Date: 06/12/2014
Group Number: 1481389
PO Number: 96817
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LL) #
CPT-25-S-10-140610 Grab Soil	7496540
CPT-25-S-13-140610 Grab Soil	7496541
CPT-25-S-18-140610 Grab Soil	7496542
CPT-25-S-23-140610 Grab Soil	7496543
CPT-25-S-28-140610 Grab Soil	7496544
CPT-25-S-33-140610 Grab Soil	7496545
CPT-25-S-38-140610 Grab Soil	7496546
CPT-25-S-43-140610 Grab Soil	7496547
CPT-25-S-48-140610 Grab Soil	7496548
CPT-25-S-5-140610 Grab Soil	7496549
CPT-33-S-10-140610 Grab Soil	7496550
CPT-33-S-15-140610 Grab Soil	7496551
CPT-33-S-20.5-140610 Grab Soil	7496552
CPT-33-S-25-140610 Grab Soil	7496553
CPT-33-S-30-140610 Grab Soil	7496554
CPT-33-S-35-140610 Grab Soil	7496555
CPT-33-S-40-140610 Grab Soil	7496556
CPT-33-S-45-140610 Grab Soil	7496557
CPT-33-S-50-140610 Grab Soil	7496558
CPT-33-S-55-140610 Grab Soil	7496559
CPT-24-S-10-140609 Grab Soil	7496560
CPT-24-S-15-140609 Grab Soil	7496561
CPT-24-S-21-140609 Grab Soil	7496562
CPT-24-S-25-140609 Grab Soil	7496563
CPT-24-S-30-140609 Grab Soil	7496564
CPT-24-S-33-140609 Grab Soil	7496565
CPT-24-S-35-140609 Grab Soil	7496566
CPT-24-S-40-140609 Grab Soil	7496567
CPT-24-S-45-140609 Grab Soil	7496568
CPT-24-S-55-140609 Grab Soil	7496569
CPT-24-S-60-140609 Grab Soil	7496570

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CRA	Attn: Celina Hernandez
ELECTRONIC COPY TO	Chevron c/o CRA	Attn: Brandon Wilken

Respectfully Submitted,

Natalie R. Luciano
Senior Specialist

(717) 556-7258

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Analysis Report

Sample Description: **CPT-25-S-10-140610 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-25

LL Sample # SW 7496540
LL Group # 1481389
Account # 11997

Project Name: 96817

Collected: 06/10/2014 14:37 by AB

Submitted: 06/12/2014 09:30
Reported: 06/20/2014 15:34

CRA
Suite A
5900 Hollis Street
Emeryville CA 94608

C2510

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	0.44	0.051	0.26	51.23
10237	trans-1,2-Dichloroethene	156-60-5	0.032	0.001	0.005	1.09
10237	Tetrachloroethene	127-18-4	3.1	0.051	0.26	51.23
10237	Trichloroethene	79-01-6	0.96	0.051	0.26	51.23
10237	Vinyl Chloride	75-01-4	0.002	0.001	0.005	1.09

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	B141671AA	06/16/2014 21:11	Angela D Sneeringer	1.09
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	Q141681AA	06/17/2014 10:41	Sarah A Guill	51.23
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201416334786	06/12/2014 16:03	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201416334786	06/12/2014 16:03	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201416334786	06/12/2014 14:54	Mitchell R Washel	n.a.

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Analysis Report

Sample Description: **CPT-25-S-13-140610 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-25

LL Sample # SW 7496541
LL Group # 1481389
Account # 11997

Project Name: 96817

Collected: 06/10/2014 14:45 by AB

Submitted: 06/12/2014 09:30
Reported: 06/20/2014 15:34

CRA
Suite A
5900 Hollis Street
Emeryville CA 94608

C2513

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	0.028	0.001	0.005	0.98
10237	trans-1,2-Dichloroethene	156-60-5	0.001	0.001	0.005	0.98
10237	Tetrachloroethene	127-18-4	3.9	0.050	0.25	50.2
10237	Trichloroethene	79-01-6	0.10	0.001	0.005	0.98
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	0.98

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	B141671AA	06/16/2014 21:33	Angela D Sneeringer	0.98
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	Q141681AA	06/17/2014 11:04	Sarah A Guill	50.2
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201416334786	06/12/2014 16:02	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201416334786	06/12/2014 16:03	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201416334786	06/12/2014 14:57	Mitchell R Washel	n.a.

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Analysis Report

Sample Description: **CPT-25-S-18-140610 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-25

LL Sample # SW 7496542
LL Group # 1481389
Account # 11997

Project Name: 96817

Collected: 06/10/2014 14:55 by AB

Submitted: 06/12/2014 09:30
Reported: 06/20/2014 15:34

CRA
Suite A
5900 Hollis Street
Emeryville CA 94608

C2518

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	0.006	0.001	0.005	1.06
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.005	1.06
10237	Tetrachloroethene	127-18-4	0.36	0.048	0.24	48.26
10237	Trichloroethene	79-01-6	0.015	0.001	0.005	1.06
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	1.06

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	B141641AA	06/13/2014 15:12	Chelsea B Stong	1.06
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	R141661AA	06/15/2014 15:33	Sarah A Guill	48.26
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201416334786	06/12/2014 16:03	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201416334786	06/12/2014 16:02	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201416334786	06/12/2014 14:59	Mitchell R Washel	n.a.

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Analysis Report

Sample Description: **CPT-25-S-23-140610 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-25

LL Sample # SW 7496543
LL Group # 1481389
Account # 11997

Project Name: 96817

Collected: 06/10/2014 15:05 by AB

Submitted: 06/12/2014 09:30
Reported: 06/20/2014 15:34

CRA
Suite A
5900 Hollis Street
Emeryville CA 94608

C2523

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.005	0.99
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.005	0.99
10237	Tetrachloroethene	127-18-4	0.030	0.001	0.005	0.99
10237	Trichloroethene	79-01-6	0.003	0.001	0.005	0.99
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	0.99

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	B141641AA	06/13/2014 15:34	Chelsea B Stong	0.99
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201416334786	06/12/2014 16:03	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201416334786	06/12/2014 16:03	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201416334786	06/12/2014 15:02	Mitchell R Washel	n.a.

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Analysis Report

Sample Description: **CPT-25-S-28-140610 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-25

LL Sample # SW 7496544
LL Group # 1481389
Account # 11997

Project Name: 96817

Collected: 06/10/2014 15:15 by AB

Submitted: 06/12/2014 09:30
Reported: 06/20/2014 15:34

CRA
Suite A
5900 Hollis Street
Emeryville CA 94608

C2528

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.005	0.96
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.005	0.96
10237	Tetrachloroethene	127-18-4	0.006	0.001	0.005	0.96
10237	Trichloroethene	79-01-6	0.002	0.001	0.005	0.96
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	0.96

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	B141641AA	06/13/2014 15:57	Chelsea B Stong	0.96
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201416334786	06/12/2014 16:03	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201416334786	06/12/2014 16:03	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201416334786	06/12/2014 15:04	Mitchell R Washel	n.a.

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Sample Description: **CPT-25-S-33-140610 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-25

LL Sample # SW 7496545
LL Group # 1481389
Account # 11997

Project Name: 96817

Collected: 06/10/2014 15:28 by AB

Submitted: 06/12/2014 09:30
Reported: 06/20/2014 15:34

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Suite A
5900 Hollis Street
Emeryville CA 94608

C2533

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.005	1.03
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.005	1.03
10237	Tetrachloroethene	127-18-4	0.022	0.001	0.005	1.03
10237	Trichloroethene	79-01-6	0.003	0.001	0.005	1.03
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	1.03

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	B141641AA	06/13/2014 16:20	Chelsea B Stong	1.03
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201416334786	06/12/2014 16:03	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201416334786	06/12/2014 16:03	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201416334786	06/12/2014 15:06	Mitchell R Washel	n.a.

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Analysis Report

Sample Description: **CPT-25-S-38-140610 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-25

LL Sample # SW 7496546
LL Group # 1481389
Account # 11997

Project Name: 96817

Collected: 06/10/2014 15:39 by AB

Submitted: 06/12/2014 09:30
Reported: 06/20/2014 15:34

CRA
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5900 Hollis Street
Emeryville CA 94608

C2538

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.005	1
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.005	1
10237	Tetrachloroethene	127-18-4	0.005	0.001	0.005	1
10237	Trichloroethene	79-01-6	0.002	0.001	0.005	1
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	1

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	B141641AA	06/13/2014 16:42	Chelsea B Stong	1
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201416334786	06/12/2014 16:02	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201416334786	06/12/2014 16:02	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201416334786	06/12/2014 15:09	Mitchell R Washel	n.a.

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Analysis Report

Sample Description: **CPT-25-S-43-140610 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-25

LL Sample # SW 7496547
LL Group # 1481389
Account # 11997

Project Name: 96817

Collected: 06/10/2014 15:50 by AB

Submitted: 06/12/2014 09:30
Reported: 06/20/2014 15:34

CRA
Suite A
5900 Hollis Street
Emeryville CA 94608

C2543

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.0009	0.005	0.95
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.0009	0.005	0.95
10237	Tetrachloroethene	127-18-4	N.D.	0.0009	0.005	0.95
10237	Trichloroethene	79-01-6	N.D.	0.0009	0.005	0.95
10237	Vinyl Chloride	75-01-4	N.D.	0.0009	0.005	0.95

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	B141641AA	06/13/2014 17:05	Chelsea B Stong	0.95
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201416334786	06/12/2014 16:03	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201416334786	06/12/2014 16:03	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201416334786	06/12/2014 15:11	Mitchell R Washel	n.a.

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Analysis Report

Sample Description: **CPT-25-S-48-140610 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-25

LL Sample # SW 7496548
LL Group # 1481389
Account # 11997

Project Name: 96817

Collected: 06/10/2014 16:01 by AB

Submitted: 06/12/2014 09:30
Reported: 06/20/2014 15:34

CRA
Suite A
5900 Hollis Street
Emeryville CA 94608

C2548

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.005	1.03
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.005	1.03
10237	Tetrachloroethene	127-18-4	N.D.	0.001	0.005	1.03
10237	Trichloroethene	79-01-6	N.D.	0.001	0.005	1.03
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	1.03

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	B141641AA	06/13/2014 17:28	Chelsea B Stong	1.03
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201416334786	06/12/2014 16:03	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201416334786	06/12/2014 16:03	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201416334786	06/12/2014 15:14	Mitchell R Washel	n.a.

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Analysis Report

Sample Description: **CPT-25-S-5-140610 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-25

LL Sample # SW 7496549
LL Group # 1481389
Account # 11997

Project Name: 96817

Collected: 06/10/2014 09:15 by AB

Submitted: 06/12/2014 09:30
Reported: 06/20/2014 15:34

CRA
Suite A
5900 Hollis Street
Emeryville CA 94608

C25-5

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	2.7	0.052	0.26	51.87
10237	trans-1,2-Dichloroethene	156-60-5	0.15	0.001	0.005	0.97
10237	Tetrachloroethene	127-18-4	0.003	0.001	0.005	0.97
10237	Trichloroethene	79-01-6	0.96	0.052	0.26	51.87
10237	Vinyl Chloride	75-01-4	0.026	0.001	0.005	0.97

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

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Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	B141641AA	06/13/2014 17:50	Chelsea B Stong	0.97
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	R141661AA	06/15/2014 15:56	Sarah A Guill	51.87
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201416334786	06/12/2014 16:03	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201416334786	06/12/2014 16:03	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201416334786	06/12/2014 15:17	Mitchell R Washel	n.a.

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Analysis Report

Sample Description: **CPT-33-S-10-140610 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-33

LL Sample # SW 7496550
LL Group # 1481389
Account # 11997

Project Name: 96817

Collected: 06/10/2014 10:23 by AB

Submitted: 06/12/2014 09:30
Reported: 06/20/2014 15:34

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Emeryville CA 94608

C3310

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.0009	0.005	0.92
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.0009	0.005	0.92
10237	Tetrachloroethene	127-18-4	0.055	0.0009	0.005	0.92
10237	Trichloroethene	79-01-6	N.D.	0.0009	0.005	0.92
10237	Vinyl Chloride	75-01-4	N.D.	0.0009	0.005	0.92

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	B141671AA	06/16/2014 14:53	Angela D Sneeringer	0.92
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201416334786	06/12/2014 16:02	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201416334786	06/12/2014 16:02	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201416334786	06/12/2014 15:19	Mitchell R Washel	n.a.

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Analysis Report

Sample Description: **CPT-33-S-15-140610 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-33

LL Sample # SW 7496551
LL Group # 1481389
Account # 11997

Project Name: 96817

Collected: 06/10/2014 10:29 by AB

Submitted: 06/12/2014 09:30
Reported: 06/20/2014 15:34

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5900 Hollis Street
Emeryville CA 94608

C3315

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.0009	0.005	0.93
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.0009	0.005	0.93
10237	Tetrachloroethene	127-18-4	0.059	0.0009	0.005	0.93
10237	Trichloroethene	79-01-6	0.003	0.0009	0.005	0.93
10237	Vinyl Chloride	75-01-4	N.D.	0.0009	0.005	0.93

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	B141671AA	06/16/2014 15:15	Angela D Sneeringer	0.93
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201416334786	06/12/2014 16:02	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201416334786	06/12/2014 16:03	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201416334786	06/12/2014 15:22	Mitchell R Washel	n.a.

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Analysis Report

Sample Description: **CPT-33-S-20.5-140610 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-33

LL Sample # SW 7496552
LL Group # 1481389
Account # 11997

Project Name: 96817

Collected: 06/10/2014 10:36 by AB

Submitted: 06/12/2014 09:30
Reported: 06/20/2014 15:34

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C3320

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.0009	0.005	0.94
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.0009	0.005	0.94
10237	Tetrachloroethene	127-18-4	0.001	0.0009	0.005	0.94
10237	Trichloroethene	79-01-6	N.D.	0.0009	0.005	0.94
10237	Vinyl Chloride	75-01-4	N.D.	0.0009	0.005	0.94

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	B141671AA	06/16/2014 15:37	Angela D Sneeringer	0.94
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201416334786	06/12/2014 16:33	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201416334786	06/12/2014 16:33	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201416334786	06/12/2014 15:43	Mitchell R Washel	n.a.

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Analysis Report

Sample Description: **CPT-33-S-25-140610 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-33

LL Sample # SW 7496553
LL Group # 1481389
Account # 11997

Project Name: 96817

Collected: 06/10/2014 10:48 by AB

Submitted: 06/12/2014 09:30
Reported: 06/20/2014 15:34

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C3325

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.005	1.05
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.005	1.05
10237	Tetrachloroethene	127-18-4	0.066	0.001	0.005	1.05
10237	Trichloroethene	79-01-6	0.007	0.001	0.005	1.05
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	1.05

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	B141641AA	06/13/2014 19:20	Chelsea B Stong	1.05
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201416334786	06/12/2014 16:33	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201416334786	06/12/2014 16:33	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201416334786	06/12/2014 15:46	Mitchell R Washel	n.a.

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Analysis Report

Sample Description: **CPT-33-S-30-140610 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-33

LL Sample # SW 7496554
LL Group # 1481389
Account # 11997

Project Name: 96817

Collected: 06/10/2014 10:56 by AB

Submitted: 06/12/2014 09:30
Reported: 06/20/2014 15:34

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Emeryville CA 94608

C3330

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.005	1.01
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.005	1.01
10237	Tetrachloroethene	127-18-4	0.077	0.001	0.005	1.01
10237	Trichloroethene	79-01-6	N.D.	0.001	0.005	1.01
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	1.01

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	B141641AA	06/13/2014 20:05	Chelsea B Stong	1.01
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201416334786	06/12/2014 16:33	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201416334786	06/12/2014 16:33	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201416334786	06/12/2014 15:49	Mitchell R Washel	n.a.

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Analysis Report

Sample Description: **CPT-33-S-35-140610 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-33

LL Sample # SW 7496555
LL Group # 1481389
Account # 11997

Project Name: 96817

Collected: 06/10/2014 11:11 by AB

Submitted: 06/12/2014 09:30
Reported: 06/20/2014 15:34

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C3335

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.005	0.98
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.005	0.98
10237	Tetrachloroethene	127-18-4	0.78	0.050	0.25	49.6
10237	Trichloroethene	79-01-6	0.008	0.001	0.005	0.98
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	0.98

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	B141641AA	06/13/2014 20:27	Chelsea B Stong	0.98
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	R141661AA	06/15/2014 16:19	Sarah A Guill	49.6
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201416334786	06/12/2014 16:33	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201416334786	06/12/2014 16:33	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201416334786	06/12/2014 15:52	Mitchell R Washel	n.a.

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Analysis Report

Sample Description: **CPT-33-S-40-140610 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-33

LL Sample # SW 7496556
LL Group # 1481389
Account # 11997

Project Name: 96817

Collected: 06/10/2014 11:25 by AB

Submitted: 06/12/2014 09:30
Reported: 06/20/2014 15:34

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C3340

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	0.009	0.001	0.005	0.99
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.005	0.99
10237	Tetrachloroethene	127-18-4	3.1	0.046	0.23	46.13
10237	Trichloroethene	79-01-6	0.25	0.001	0.005	0.99
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	0.99

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	B141641AA	06/13/2014 20:50	Chelsea B Stong	0.99
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	R141661AA	06/15/2014 16:42	Sarah A Guill	46.13
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201416334786	06/12/2014 16:33	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201416334786	06/12/2014 16:33	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201416334786	06/12/2014 15:59	Mitchell R Washel	n.a.

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Analysis Report

Sample Description: **CPT-33-S-45-140610 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-33

LL Sample # SW 7496557
LL Group # 1481389
Account # 11997

Project Name: 96817

Collected: 06/10/2014 11:39 by AB

Submitted: 06/12/2014 09:30
Reported: 06/20/2014 15:34

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C3345

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.005	1.03
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.005	1.03
10237	Tetrachloroethene	127-18-4	0.038	0.001	0.005	1.03
10237	Trichloroethene	79-01-6	0.002	0.001	0.005	1.03
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	1.03

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	B141641AA	06/13/2014 21:13	Chelsea B Stong	1.03
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201416334786	06/12/2014 16:33	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201416334786	06/12/2014 16:33	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201416334786	06/12/2014 16:06	Mitchell R Washel	n.a.

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Sample Description: CPT-33-S-50-140610 Grab Soil
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-33

LL Sample # SW 7496558
LL Group # 1481389
Account # 11997

Project Name: 96817

Collected: 06/10/2014 11:56 by AB

Submitted: 06/12/2014 09:30
Reported: 06/20/2014 15:34

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C3350

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		mg/kg	mg/kg	mg/kg	
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.005	0.99
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.005	0.99
10237	Tetrachloroethene	127-18-4	0.10	0.051	0.25	50.92
10237	Trichloroethene	79-01-6	0.009	0.001	0.005	0.99
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	0.99

The concentration reported for tetrachloethene is estimated since it exceeds the calibration range of the instrument when determined by the low level method, but is less than the quantitation limit when determined by the high level method. The result reported is from the high level determination.

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	B141641AA	06/13/2014	14:05	Chelsea B Stong	0.99
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	R141661AA	06/15/2014	17:06	Sarah A Guill	50.92
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201416334786	06/12/2014	16:33	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201416334786	06/12/2014	16:33	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	3	201416334786	06/12/2014	16:33	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	4	201416334786	06/12/2014	16:33	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	5	201416434799	06/13/2014	17:53	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201416334786	06/12/2014	16:17	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	2	201416334786	06/12/2014	16:18	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	3	201416334786	06/12/2014	16:19	Mitchell R Washel	n.a.

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Analysis Report

Sample Description: **CPT-33-S-55-140610 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-33

LL Sample # SW 7496559
LL Group # 1481389
Account # 11997

Project Name: 96817

Collected: 06/10/2014 12:17 by AB

Submitted: 06/12/2014 09:30
Reported: 06/20/2014 15:34

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5900 Hollis Street
Emeryville CA 94608

C3355

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.005	1
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.005	1
10237	Tetrachloroethene	127-18-4	N.D.	0.001	0.005	1
10237	Trichloroethene	79-01-6	N.D.	0.001	0.005	1
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	1

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	B141671AA	06/16/2014 15:59	Angela D Sneeringer	1
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201416334786	06/12/2014 16:33	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201416334786	06/12/2014 16:33	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201416334786	06/12/2014 16:24	Mitchell R Washel	n.a.

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Analysis Report

Sample Description: **CPT-24-S-10-140609 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-24

LL Sample # SW 7496560
LL Group # 1481389
Account # 11997

Project Name: 96817

Collected: 06/09/2014 11:35 by BY

Submitted: 06/12/2014 09:30
Reported: 06/20/2014 15:34

CRA
Suite A
5900 Hollis Street
Emeryville CA 94608

C2410

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	0.040	0.001	0.005	1.03
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.005	1.03
10237	Tetrachloroethene	127-18-4	0.48	0.049	0.25	49.31
10237	Trichloroethene	79-01-6	0.077	0.001	0.005	1.03
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	1.03

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	B141671AA	06/16/2014 16:22	Angela D Sneeringer	1.03
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	Q141681AA	06/17/2014 11:27	Sarah A Guill	49.31
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201416334786	06/12/2014 16:33	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201416334786	06/12/2014 16:33	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201416334786	06/12/2014 16:27	Mitchell R Washel	n.a.

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Analysis Report

Sample Description: CPT-24-S-15-140609 Grab Soil
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-24

LL Sample # SW 7496561
LL Group # 1481389
Account # 11997

Project Name: 96817

Collected: 06/09/2014 11:44 by BY

Submitted: 06/12/2014 09:30
Reported: 06/20/2014 15:34

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Emeryville CA 94608

C2415

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	0.10	0.001	0.005	1
10237	trans-1,2-Dichloroethene	156-60-5	0.001	0.001	0.005	1
10237	Tetrachloroethene	127-18-4	5.7	0.049	0.24	48.83
10237	Trichloroethene	79-01-6	0.17	0.001	0.005	1
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	1

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	B141671AA	06/16/2014 21:56	Angela D Sneeringer	1
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	Q141681AA	06/17/2014 11:50	Sarah A Guill	48.83
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201416334786	06/12/2014 16:33	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201416334786	06/12/2014 16:34	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201416334786	06/12/2014 16:29	Mitchell R Washel	n.a.

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Analysis Report

Sample Description: **CPT-24-S-21-140609 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-24

LL Sample # SW 7496562
LL Group # 1481389
Account # 11997

Project Name: 96817

Collected: 06/09/2014 12:00 by BY

Submitted: 06/12/2014 09:30
Reported: 06/20/2014 15:34

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C2421

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	0.002	0.001	0.005	1
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.005	1
10237	Tetrachloroethene	127-18-4	0.11	0.001	0.005	1
10237	Trichloroethene	79-01-6	0.004	0.001	0.005	1
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	1

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	B141671AA	06/16/2014 16:44	Angela D Sneeringer	1
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201416334786	06/12/2014 16:34	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201416334786	06/12/2014 16:34	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201416334786	06/12/2014 16:32	Mitchell R Washel	n.a.

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Analysis Report

Sample Description: **CPT-24-S-25-140609 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-24

LL Sample # SW 7496563
LL Group # 1481389
Account # 11997

Project Name: 96817

Collected: 06/09/2014 12:47 by BY

Submitted: 06/12/2014 09:30
Reported: 06/20/2014 15:34

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C2425

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.005	0.97
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.005	0.97
10237	Tetrachloroethene	127-18-4	0.032	0.001	0.005	0.97
10237	Trichloroethene	79-01-6	N.D.	0.001	0.005	0.97
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	0.97

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	B141671AA	06/16/2014 17:06	Angela D Sneeringer	0.97
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201416334786	06/12/2014 17:18	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201416334786	06/12/2014 17:18	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201416334786	06/12/2014 16:56	Mitchell R Washel	n.a.

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Analysis Report

Sample Description: **CPT-24-S-30-140609 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-24

LL Sample # SW 7496564
LL Group # 1481389
Account # 11997

Project Name: 96817

Collected: 06/09/2014 13:00 by BY

Submitted: 06/12/2014 09:30
Reported: 06/20/2014 15:34

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C2430

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.005	0.99
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.005	0.99
10237	Tetrachloroethene	127-18-4	0.11	0.001	0.005	0.99
10237	Trichloroethene	79-01-6	0.001	0.001	0.005	0.99
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	0.99

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

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Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	B141671AA	06/16/2014 17:28	Angela D Sneeringer	0.99
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201416334786	06/12/2014 17:18	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201416334786	06/12/2014 17:18	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201416334786	06/12/2014 16:59	Mitchell R Washel	n.a.

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Analysis Report

Sample Description: **CPT-24-S-33-140609 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-24

LL Sample # SW 7496565
LL Group # 1481389
Account # 11997

Project Name: 96817

Collected: 06/09/2014 13:11 by BY

Submitted: 06/12/2014 09:30
Reported: 06/20/2014 15:34

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C2433

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.005	1.05
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.005	1.05
10237	Tetrachloroethene	127-18-4	0.40	0.047	0.23	46.82
10237	Trichloroethene	79-01-6	0.007	0.001	0.005	1.05
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	1.05

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	B141671AA	06/16/2014 17:51	Angela D Sneeringer	1.05
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	Q141681AA	06/17/2014 12:13	Sarah A Guill	46.82
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201416334786	06/12/2014 17:18	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201416334786	06/12/2014 17:18	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201416334786	06/12/2014 17:03	Mitchell R Washel	n.a.

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Analysis Report

Sample Description: **CPT-24-S-35-140609 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-24

LL Sample # SW 7496566
LL Group # 1481389
Account # 11997

Project Name: 96817

Collected: 06/09/2014 13:24 by BY

Submitted: 06/12/2014 09:30
Reported: 06/20/2014 15:34

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C2435

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.048	0.24	47.71
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.048	0.24	47.71
10237	Tetrachloroethene	127-18-4	1.0	0.048	0.24	47.71
10237	Trichloroethene	79-01-6	N.D.	0.048	0.24	47.71
10237	Vinyl Chloride	75-01-4	N.D.	0.048	0.24	47.71

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	R141661AA	06/15/2014 21:21	Sarah A Guill	47.71
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201416334786	06/12/2014 17:18	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201416334786	06/12/2014 17:18	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201416334786	06/12/2014 17:06	Mitchell R Washel	n.a.

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Sample Description: CPT-24-S-40-140609 Grab Soil
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-24

LL Sample # SW 7496567
LL Group # 1481389
Account # 11997

Project Name: 96817

Collected: 06/09/2014 13:40 by BY

Submitted: 06/12/2014 09:30
Reported: 06/20/2014 15:34

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C2440

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.005	1.01
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.005	1.01
10237	Tetrachloroethene	127-18-4	0.007	0.001	0.005	1.01
10237	Trichloroethene	79-01-6	N.D.	0.001	0.005	1.01
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	1.01

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	B141671AA	06/16/2014 18:13	Angela D Sneeringer	1.01
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201416334786	06/12/2014 17:18	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201416334786	06/12/2014 17:18	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201416334786	06/12/2014 17:08	Mitchell R Washel	n.a.

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Analysis Report

Sample Description: **CPT-24-S-45-140609 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-24

LL Sample # SW 7496568
LL Group # 1481389
Account # 11997

Project Name: 96817

Collected: 06/09/2014 13:56 by BY

Submitted: 06/12/2014 09:30
Reported: 06/20/2014 15:34

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C2445

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.005	0.97
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.005	0.97
10237	Tetrachloroethene	127-18-4	0.008	0.001	0.005	0.97
10237	Trichloroethene	79-01-6	N.D.	0.001	0.005	0.97
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	0.97

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	B141671AA	06/16/2014 18:35	Angela D Sneeringer	0.97
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201416334786	06/12/2014 17:18	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201416334786	06/12/2014 17:18	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201416334786	06/12/2014 17:11	Mitchell R Washel	n.a.

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Sample Description: **CPT-24-S-55-140609 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-24

LL Sample # SW 7496569
LL Group # 1481389
Account # 11997

Project Name: 96817

Collected: 06/09/2014 14:35 by BY

Submitted: 06/12/2014 09:30
Reported: 06/20/2014 15:34

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C2455

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.005	1.08
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.005	1.08
10237	Tetrachloroethene	127-18-4	0.016	0.001	0.005	1.08
10237	Trichloroethene	79-01-6	N.D.	0.001	0.005	1.08
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	1.08

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	B141671AA	06/16/2014 18:57	Angela D Sneeringer	1.08
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201416334786	06/12/2014 17:18	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201416334786	06/12/2014 17:18	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201416334786	06/12/2014 17:13	Mitchell R Washel	n.a.

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Analysis Report

Sample Description: **CPT-24-S-60-140609 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-24

LL Sample # SW 7496570
LL Group # 1481389
Account # 11997

Project Name: 96817

Collected: 06/09/2014 14:55 by BY

Submitted: 06/12/2014 09:30
Reported: 06/20/2014 15:34

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C2460

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.005	1.01
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.005	1.01
10237	Tetrachloroethene	127-18-4	0.01	0.001	0.005	1.01
10237	Trichloroethene	79-01-6	N.D.	0.001	0.005	1.01
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	1.01

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	B141671AA	06/16/2014 19:20	Angela D Sneeringer	1.01
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201416334786	06/12/2014 17:18	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201416334786	06/12/2014 17:18	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201416334786	06/12/2014 17:16	Mitchell R Washel	n.a.

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: CRA Group Number: 1481389
Reported: 06/20/14 at 03:34 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B141641AA	Sample number(s): 7496542-7496549,7496553-7496558								
cis-1,2-Dichloroethene	N.D.	0.001	0.005	mg/kg	103		80-120		
trans-1,2-Dichloroethene	N.D.	0.001	0.005	mg/kg	105		79-120		
Tetrachloroethene	N.D.	0.001	0.005	mg/kg	107		78-120		
Trichloroethene	N.D.	0.001	0.005	mg/kg	104		80-120		
Vinyl Chloride	N.D.	0.001	0.005	mg/kg	100		59-120		
Batch number: B141671AA	Sample number(s): 7496540-7496541,7496550-7496552,7496559-7496565,7496567-7496570								
cis-1,2-Dichloroethene	N.D.	0.001	0.005	mg/kg	100	98	80-120	2	30
trans-1,2-Dichloroethene	N.D.	0.001	0.005	mg/kg	114	119	79-120	5	30
Tetrachloroethene	N.D.	0.001	0.005	mg/kg	101	97	78-120	4	30
Trichloroethene	N.D.	0.001	0.005	mg/kg	103	100	80-120	2	30
Vinyl Chloride	N.D.	0.001	0.005	mg/kg	104	101	59-120	3	30
Batch number: Q141681AA	Sample number(s): 7496540-7496541,7496560-7496561,7496565								
cis-1,2-Dichloroethene	N.D.	0.050	0.25	mg/kg	102	101	80-120	1	30
Tetrachloroethene	N.D.	0.050	0.25	mg/kg	111	110	78-120	2	30
Trichloroethene	N.D.	0.050	0.25	mg/kg	106	105	80-120	1	30
Batch number: R141661AA	Sample number(s): 7496542,7496549,7496555-7496556,7496558,7496566								
cis-1,2-Dichloroethene	N.D.	0.050	0.25	mg/kg	95	95	80-120	0	30
trans-1,2-Dichloroethene	N.D.	0.050	0.25	mg/kg	98	97	79-120	0	30
Tetrachloroethene	N.D.	0.050	0.25	mg/kg	91	93	78-120	3	30
Trichloroethene	N.D.	0.050	0.25	mg/kg	97	96	80-120	1	30
Vinyl Chloride	N.D.	0.050	0.25	mg/kg	79	81	59-120	2	30

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: B141641AA	Sample number(s): 7496542-7496549,7496553-7496558 UNSPK: 7496558								
cis-1,2-Dichloroethene	91	111	67-135	18	30				
trans-1,2-Dichloroethene	111	129	64-144	13	30				
Tetrachloroethene	-827 (2)	-1492 (2)	42-149	105*	30				
Trichloroethene	72	69	53-144	4	30				
Vinyl Chloride	95	117	50-154	19	30				

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CRA
Reported: 06/20/14 at 03:34 PM

Group Number: 1481389

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 8260 Ext. Soil Master w/GRO
Batch number: B141641AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7496542	104	103	101	88
7496543	105	104	99	92
7496544	107	108	100	91
7496545	104	103	97	90
7496546	105	102	99	92
7496547	107	113	96	93
7496548	106	105	96	91
7496549	110	107	104	85
7496553	111	108	95	89
7496554	108	110	96	93
7496555	112	114	95	91
7496556	108	105	98	84
7496557	108	106	97	90
7496558	104	100	97	91
Blank	103	103	97	95
LCS	103	101	102	101
MS	104	103	100	97
MSD	103	99	103	97
Limits:	50-141	54-135	52-141	50-131

Analysis Name: 8260 Ext. Soil Master w/GRO
Batch number: B141671AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7496540	108	101	99	91
7496541	110	102	96	90
7496550	105	102	100	89
7496551	108	109	95	94
7496552	106	103	99	94
7496559	108	101	98	94
7496560	109	99	101	88
7496561	110	100	95	88
7496562	108	104	96	89
7496563	111	109	95	93
7496564	108	100	95	90
7496565	110	105	94	92
7496567	112	109	94	92
7496568	111	105	98	88

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CRA
Reported: 06/20/14 at 03:34 PM

Group Number: 1481389

Surrogate Quality Control

7496569	110	105	96	94
7496570	111	100	96	92
Blank	109	109	95	95
LCS	105	103	100	103
LCSD	105	101	97	100
Limits:	50-141	54-135	52-141	50-131

Analysis Name: 8260 Ext. Soil Master w/GRO
Batch number: R141661AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7496566	75	74	71	66
Blank	100	100	97	88
LCS	89	87	87	83
LCSD	90	89	89	83
Limits:	50-141	54-135	52-141	50-131

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Chevron California Region Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories

Acct. # 11997 Group # 1481359 Sample # 7496540-70

For Lancaster Laboratories use only

Instructions on reverse side correspond with circled numbers.

1 Client Information

Facility # 96817

WBS

Site Address: 1705 Contra Costa Blvd. Pleasant Hill, CA

Chevron PM: Brian Waite

Lead Consultant: CRA

Consultant/Office: Emeryville

Consultant Project Mgr.: Celina Hernandez

Consultant Phone #: 510-420-3340

Sampler: A. Beerling

SCR #:

4 Matrix

☐ Soil ☐ Sediment ☐ Water ☐ Potable ☐ Ground ☐ NPDES ☐ Surface ☐ Oil ☐ Air

5 Analyses Requested

☐ Results in Dry Weight
☐ J value reporting needed
☐ Must meet lowest detection limits possible for 8260 compounds
☐ 8021 MTBE Confirmation
☐ Confirm highest hit by 8260
☐ Confirm all hits by 8260
☐ Run _____ oxy's on highest hit
☐ Run _____ oxy's on all hits

2 Sample Identification	Collected Date	Collected Time	3 Grab	Composite	Soil	Total Number of Containers	BTEX + MTBE 8021	TPH GRO 8015	TPH 8015 MOD DRO	Silica Gel Cleanup	8260 Full Scan	Oxygenates	Total Lead	Dissolved Lead	8260 (See Remarks for list)
CPT-25-10'	6/10/14	1437	x		x										x
CPT-25-13'	↓	1445	↓		↓										↓
CPT-25-18'		1455													
CPT-25-23'		1505													
CPT-25-28'		1515													
CPT-25-33'		1528													
CPT-25-38'		1539													
CPT-25-43'		1550													
CPT-25-48'	↓	1601	↓		↓										↓
CPT-25-5'	x	0915	x		x										x

6 Remarks

PCE, TCE, cis-1,2-DCE, T-1,2-DCE, VC

Please send results to:

BWilken@crawtd.com

&

chernandez@crawtd.com

7 Turnaround Time Requested (TAT) (please circle)

Standard | 5 day | 4 day

72 hour | 48 hour | 24 hour

8 Data Package Options (please circle if required)

Type I - Full | Type VI (Raw Data)

9

Relinquished by	Date	Time	Received by	Date	Time
Aurora Beerling	6/10/14	18:20	CRA Secure Location	6/10/14	18:20
[signature]	6/11/14	1105	A. Aulger	11 JUN 14	1105
Relinquished by Commerical Carrier: A. Aulger 11 JUN 14 1630			UPS		

UPS ____ FedEx ____ Other ____

Temperature Upon Receipt 0.3-1.1 °C

Custody Seals Intact? Yes No

6/12/14 930

Chevron California Region Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories

Lancaster Laboratories: 061114-01 P. 1 of 2 Acct. # 11997 For Lancaster Laboratories use only Group # 1481389 Sample # 7496540-70

Instructions on reverse side correspond with circled numbers.

1 Client Information

Facility # 96817 WBS

Site Address 1705 Contra Costa Blvd.

Chevron PM Brian White Lead Consultant

Consultant/Office CRA / Emeryville

Consultant Project Mgr. Celina Hernandez

Consultant Phone # 510 420 3340

Sampler A. Beerling

4 Matrix: Soil ☐ Sediment ☐ Water: Potable ☐ Ground ☐ NPDES ☐ Surface ☐ Oil ☐ Air ☐

5 Analyses Requested

SCR #: _____

☐ Results in Dry Weight
☐ J value reporting needed
☐ Must meet lowest detection limits possible for 8260 compounds
☐ 8021 MTBE Confirmation
☐ Confirm highest hit by 8260
☐ Confirm all hits by 8260
☐ Run _____ oxy's on highest hit
☐ Run _____ oxy's on all hits

2 Sample Identification	Collected Date	Collected Time	3 Grab	Composite	Soil	Water	Oil	Total Number of Containers	BTEX + MTBE 8021 ☐ 8260 ☐	TPH GRO 8015 ☐ 8260 ☐	TPH 8015 MOD DRO	Silica Gel Cleanup	8260 Full Scan	Oxygenates	Total Lead Method	Dissolved Lead Method	8260 (See Remarks for list)			
CPT-33-10	6/10/14	1023	x		x															
CPT-33-15		1029																		
CPT-33-20.5		1036																		
CPT-33-25		1048																		
CPT-33-30		1056																		
CPT-33-35		11:11																		
CPT-33-40		11:25																		
CPT-33-45		11:39																		
CPT-33-50		11:56																		
CPT-33-55		12:17																		

6 Remarks

PCE, TCE, Cis-1,2-DCE
T-1,2-DCE, VC

Please send results to:
BWilken@craworld.com
+
chernandez2@craworld.com

7 Turnaround Time Requested (TAT) (please circle)

Standard | 5 day | 4 day | 72 hour | 48 hour | 24 hour

8 Data Package Options (please circle if required)

Type I - Full | Type VI (Raw Data)

Relinquished by	Date	Time	Received by	Date	Time
Alessa Beerling	6/10/14	18:20	CRA secure location	6/10/14	18:20
[signature]	6/11/14	1105	[signature]	11 JUN 14	1105
Relinquished by ~~Commercial Carrier:~~ [signature] 11 JUN 14 ~~UPS~~ ____ ~~FedEx~~ ____ ~~Other~~ 1636			Received by UPS	Date	Time

Temperature Upon Receipt 0.3-1.1 °C

Custody Seals Intact? Yes No

Chevron California Region Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories

Acct. # 11997 Group # 1481389 Sample # 7496540-70

For Lancaster Laboratories use only

Instructions on reverse side correspond with circled numbers.

1 Client Information

Facility # / WBS: CHEVRON 96817

Site Address: 1705 CONTRA COSTA BLVD. PLEASANT HILL, CA

Chevron PM: BRIAN WAITE

Lead Consultant: CRA

Consultant/Office: EMERYVILLE CA

Consultant Project Mgr.: CELINA HERNANDEZ

Consultant Phone #: 510 420 3340

Sampler: BELEW YIFRU

SCR #: _____

- ☐ Results in Dry Weight
- ☐ J value reporting needed
- ☐ Must meet lowest detection limits possible for 8260 compounds
- ☐ 8021 MTBE Confirmation
- ☐ Confirm highest hit by 8260
- ☐ Confirm all hits by 8260
- ☐ Run _____ oxy's on highest hit
- ☐ Run _____ oxy's on all hits

4 Matrix / 5 Analyses Requested

2 Sample Identification	Collected Date	Collected Time	3 Grab	Composite	Soil	Water	Oil	Total Number of Containers	BTEX + MTBE 8021 ☐ / 8260 ☐	TPH GRO 8015 ☐ / 8260 ☐	TPH 8015 MOD DRO	Silica Gel Cleanup	8260 Full Scan	Oxygenates	Total Lead	Dissolved Lead	8260 SEE COMMENTS
CPT-24-10	6/9/14	1135	X		X			1									X
CPT-24-15	6/9/14	1144															
CPT-24-21	6/9/14	1200															
CPT-24-25	6/9/14	1247															
CPT-24-30	6/9/14	1300															
CPT-24-33	6/9/14	13:11															
CPT-24-35	6/9/14	13:24															
CPT-24-40	6/9/14	1340															
CPT-24-45	6/9/14	1356															
CPT-24-55	6/9/14	1435															
CPT-24-60	6/9/14	1455															

Sediment ☐ Ground ☐ Surface ☐ Potable ☐ NPDES ☐ Air ☐

Method _____ Method _____

6 Remarks

PCE, TCE, Cis-1,2DCE, trans-1,2 DCE, VC

PLEASE SEND RESULTS TO:

bwilke@crworld.com

chernandez@crworld.com

7 Turnaround Time Requested (TAT) (please circle)

Standard | 5 day | 4 day | 72 hour | 48 hour | 24 hour

8 Data Package Options (please circle if required)

Type I - Full | Type VI (Raw Data)

Relinquished by	Date	Time	Received by	Date	Time
BELEW YIFRU	6/9/14	17:35	SECURE LOCATION	6/9/14	17:35
[signature]		1135	[signature] 18	JUN 14	1135

Relinquished by Commerical Carrier: UPS X FedEx ____ Other ____

Received by [signature] Date 6/12/14 Time 930

Temperature Upon Receipt 0.3 1.1 °C

Custody Seals Intact? Yes No

9

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Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
µg	microgram(s)	**mg**	milligram(s)
mL	milliliter(s)	**L**	liter(s)
m3	cubic meter(s)	**µL**	microliter(s)
		pg/L	picogram/liter

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

Data Qualifiers:

C – result confirmed by reanalysis.

J - estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
A	TIC is a possible aldol-condensation product	**B**	Value is <CRDL, but ≥IDL
B	Analyte was also detected in the blank	**E**	Estimated due to interference
C	Pesticide result confirmed by GC/MS	**M**	Duplicate injection precision not met
D	Compound quantitated on a diluted sample	**N**	Spike sample not within control limits
E	Concentration exceeds the calibration range of the instrument	**S**	Method of standard additions (MSA) used for calculation
N	Presumptive evidence of a compound (TICs only)	**U**	Compound was not detected
P	Concentration difference between primary and confirmation columns >25%	**W**	Post digestion spike out of control limits
U	Compound was not detected	*****	Duplicate analysis not within control limits
X,Y,Z	Defined in case narrative	**+**	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

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ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

CRA
Suite A
5900 Hollis Street
Emeryville CA 94608

June 23, 2014

Project: 96817

Submittal Date: 06/13/2014
Group Number: 1481777
PO Number: 96817
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LL) #
CPT-26-S-5-140611 Grab Soil	7498356
CPT-26-S-10-140611 Grab Soil	7498357
CPT-26-S-12-140611 Grab Soil	7498358
CPT-26-S-15-140611 Grab Soil	7498359
CPT-26-S-20-140611 Grab Soil	7498360
CPT-26-S-25-140611 Grab Soil	7498361
CPT-26-S-30-140611 Grab Soil	7498362
CPT-26-S-35-140611 Grab Soil	7498363
CPT-26-S-40-140611 Grab Soil	7498364
CPT-26-S-45-140611 Grab Soil	7498365
CPT-26-S-50-140611 Grab Soil	7498366
CPT-31-S-5-140611 Grab Soil	7498367
CPT-30-S-5-140611 Grab Soil	7498368
CPT-32-S-5-140611 Grab Soil	7498369
CPT-32-S-11-140611 Grab Soil	7498370
CPT-32-S-14-140611 Grab Soil	7498371
CPT-32-S-16-140611 Grab Soil	7498372
CPT-32-S-21-140611 Grab Soil	7498373
CPT-32-S-26-140611 Grab Soil	7498374
CPT-32-S-31-140611 Grab Soil	7498375
CPT-32-S-36-140611 Grab Soil	7498376
CPT-32-S-40-140611 Grab Soil	7498377
CPT-32-S-46-140611 Grab Soil	7498378
CPT-27-S-5-140611 Grab Soil	7498379
CPT-32-S-50-140611 Grab Soil	7498380

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CRA	Attn: Celina Hernandez
ELECTRONIC COPY TO	Chevron c/o CRA	Attn: Brandon Wilken

Respectfully Submitted,

Natalie R. Luciano
Senior Specialist

(717) 556-7258

eurofins
Lancaster Laboratories Environmental
2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

Sample Description: **CPT-26-S-5-140611 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-26

LL Sample # SW 7498356
LL Group # 1481777
Account # 11997

Project Name: 96817

Collected: 06/11/2014 08:15 by BY

Submitted: 06/13/2014 09:45
Reported: 06/23/2014 14:45

CRA
Suite A
5900 Hollis Street
Emeryville CA 94608

PH265

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	1.4	0.047	0.24	47.44
10237	trans-1,2-Dichloroethene	156-60-5	0.28	0.001	0.005	1.01
10237	Tetrachloroethene	127-18-4	0.003	0.001	0.005	1.01
10237	Trichloroethene	79-01-6	0.003	0.001	0.005	1.01
10237	Vinyl Chloride	75-01-4	0.001	0.001	0.005	1.01

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	A141672AA	06/17/2014 03:00	Stephanie A Selis	1.01
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	Q141681AA	06/17/2014 12:37	Sarah A Guill	47.44
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201416434800	06/13/2014 17:28	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201416434800	06/13/2014 17:29	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201416434800	06/13/2014 16:37	Mitchell R Washel	n.a.

*=This limit was used in the evaluation of the final result

eurofins
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Analysis Report

Sample Description: **CPT-26-S-10-140611 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-26

LL Sample # SW 7498357
LL Group # 1481777
Account # 11997

Project Name: 96817

Collected: 06/11/2014 09:02 by BY

Submitted: 06/13/2014 09:45
Reported: 06/23/2014 14:45

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P2610

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		mg/kg	mg/kg	mg/kg	
10237	cis-1,2-Dichloroethene	156-59-2	0.33	0.054	0.27	54.23
10237	trans-1,2-Dichloroethene	156-60-5	0.026	0.001	0.005	1.05
10237	Tetrachloroethene	127-18-4	0.25	0.001	0.005	1.05
10237	Trichloroethene	79-01-6	0.26	0.001	0.005	1.05
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	1.05

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	A141672AA	06/17/2014 03:24	Stephanie A Selis	1.05
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	Q141681AA	06/17/2014 13:00	Sarah A Guill	54.23
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201416434800	06/13/2014 17:29	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201416434800	06/13/2014 17:29	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201416434800	06/13/2014 16:39	Mitchell R Washel	n.a.

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Analysis Report

Sample Description: **CPT-26-S-12-140611 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-26

LL Sample # SW 7498358
LL Group # 1481777
Account # 11997

Project Name: 96817

Collected: 06/11/2014 09:08 by BY

Submitted: 06/13/2014 09:45
Reported: 06/23/2014 14:45

CRA
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5900 Hollis Street
Emeryville CA 94608

P2612

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	0.092	0.001	0.005	0.96
10237	trans-1,2-Dichloroethene	156-60-5	0.005	0.001	0.005	0.96
10237	Tetrachloroethene	127-18-4	0.10	0.001	0.005	0.96
10237	Trichloroethene	79-01-6	0.076	0.001	0.005	0.96
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	0.96

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	A141672AA	06/17/2014 03:48	Stephanie A Selis	0.96
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201416434800	06/13/2014 17:29	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201416434800	06/13/2014 17:29	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201416434800	06/13/2014 16:43	Mitchell R Washel	n.a.

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Analysis Report

Sample Description: **CPT-26-S-15-140611 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-26

LL Sample # SW 7498359
LL Group # 1481777
Account # 11997

Project Name: 96817

Collected: 06/11/2014 09:15 by BY

Submitted: 06/13/2014 09:45
Reported: 06/23/2014 14:45

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P2615

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.005	0.99
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.005	0.99
10237	Tetrachloroethene	127-18-4	0.005	0.001	0.005	0.99
10237	Trichloroethene	79-01-6	0.002	0.001	0.005	0.99
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	0.99

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	A141672AA	06/17/2014 04:13	Stephanie A Selis	0.99
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201416434800	06/13/2014 17:29	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201416434800	06/13/2014 17:29	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201416434800	06/13/2014 16:51	Mitchell R Washel	n.a.

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Analysis Report

Sample Description: **CPT-26-S-20-140611 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-26

LL Sample # SW 7498360
LL Group # 1481777
Account # 11997

Project Name: 96817

Collected: 06/11/2014 09:28 by BY

Submitted: 06/13/2014 09:45
Reported: 06/23/2014 14:45

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5900 Hollis Street
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P2620

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.005	1.06
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.005	1.06
10237	Tetrachloroethene	127-18-4	N.D.	0.001	0.005	1.06
10237	Trichloroethene	79-01-6	N.D.	0.001	0.005	1.06
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	1.06

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	A141672AA	06/17/2014 04:37	Stephanie A Selis	1.06
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201416434800	06/13/2014 17:29	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201416434800	06/13/2014 17:29	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201416434800	06/13/2014 16:54	Mitchell R Washel	n.a.

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Analysis Report

Sample Description: **CPT-26-S-25-140611 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-26

LL Sample # SW 7498361
LL Group # 1481777
Account # 11997

Project Name: 96817

Collected: 06/11/2014 09:37 by BY

Submitted: 06/13/2014 09:45
Reported: 06/23/2014 14:45

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P2625

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	0.004	0.001	0.005	1.01
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.005	1.01
10237	Tetrachloroethene	127-18-4	0.004	0.001	0.005	1.01
10237	Trichloroethene	79-01-6	0.004	0.001	0.005	1.01
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	1.01

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	A141672AA	06/17/2014 05:01	Stephanie A Selis	1.01
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201416434800	06/13/2014 17:29	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201416434800	06/13/2014 17:29	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201416434800	06/13/2014 16:59	Mitchell R Washel	n.a.

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Analysis Report

Sample Description: **CPT-26-S-30-140611 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-26

LL Sample # SW 7498362
LL Group # 1481777
Account # 11997

Project Name: 96817

Collected: 06/11/2014 09:52 by BY

Submitted: 06/13/2014 09:45
Reported: 06/23/2014 14:45

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P2630

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.005	1.01
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.005	1.01
10237	Tetrachloroethene	127-18-4	N.D.	0.001	0.005	1.01
10237	Trichloroethene	79-01-6	N.D.	0.001	0.005	1.01
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	1.01

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	A141672AA	06/17/2014 05:25	Stephanie A Selis	1.01
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201416434800	06/13/2014 17:29	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201416434800	06/13/2014 17:29	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201416434800	06/13/2014 17:01	Mitchell R Washel	n.a.

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Analysis Report

Sample Description: **CPT-26-S-35-140611 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-26

LL Sample # SW 7498363
LL Group # 1481777
Account # 11997

Project Name: 96817

Collected: 06/11/2014 10:09 by BY

Submitted: 06/13/2014 09:45
Reported: 06/23/2014 14:45

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P2635

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	0.004	0.001	0.005	0.98
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.005	0.98
10237	Tetrachloroethene	127-18-4	0.010	0.001	0.005	0.98
10237	Trichloroethene	79-01-6	0.008	0.001	0.005	0.98
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	0.98

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	A141672AA	06/17/2014 05:49	Stephanie A Selis	0.98
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201416434800	06/13/2014 17:29	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201416434800	06/13/2014 17:29	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201416434800	06/13/2014 17:04	Mitchell R Washel	n.a.

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Analysis Report

Sample Description: **CPT-26-S-40-140611 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-26

LL Sample # SW 7498364
LL Group # 1481777
Account # 11997

Project Name: 96817

Collected: 06/11/2014 10:25 by BY

Submitted: 06/13/2014 09:45
Reported: 06/23/2014 14:45

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P2640

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	0.003	0.001	0.005	0.97
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.005	0.97
10237	Tetrachloroethene	127-18-4	0.001	0.001	0.005	0.97
10237	Trichloroethene	79-01-6	0.002	0.001	0.005	0.97
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	0.97

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	A141712AA	06/21/2014 05:55	Stephanie A Selis	0.97
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201416434800	06/13/2014 17:29	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201416434800	06/13/2014 17:29	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201416434800	06/13/2014 17:08	Mitchell R Washel	n.a.

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Analysis Report

Sample Description: **CPT-26-S-45-140611 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-26

LL Sample # SW 7498365
LL Group # 1481777
Account # 11997

Project Name: 96817

Collected: 06/11/2014 10:40 by BY

Submitted: 06/13/2014 09:45
Reported: 06/23/2014 14:45

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P2645

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.005	1.04
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.005	1.04
10237	Tetrachloroethene	127-18-4	N.D.	0.001	0.005	1.04
10237	Trichloroethene	79-01-6	N.D.	0.001	0.005	1.04
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	1.04

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	A141672AA	06/17/2014 06:36	Stephanie A Selis	1.04
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201416434800	06/13/2014 17:29	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201416434800	06/13/2014 17:29	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201416434800	06/13/2014 17:12	Mitchell R Washel	n.a.

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Analysis Report

Sample Description: **CPT-26-S-50-140611 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-26

LL Sample # SW 7498366
LL Group # 1481777
Account # 11997

Project Name: 96817

Collected: 06/11/2014 10:59 by BY

Submitted: 06/13/2014 09:45
Reported: 06/23/2014 14:45

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P2650

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	0.079	0.001	0.005	1.06
10237	trans-1,2-Dichloroethene	156-60-5	0.005	0.001	0.005	1.06
10237	Tetrachloroethene	127-18-4	0.026	0.001	0.005	1.06
10237	Trichloroethene	79-01-6	0.042	0.001	0.005	1.06
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	1.06

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	A141672AA	06/17/2014 07:00	Stephanie A Selis	1.06
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201416434800	06/13/2014 17:29	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201416434800	06/13/2014 17:29	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201416434800	06/13/2014 17:15	Mitchell R Washel	n.a.

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Analysis Report

Sample Description: **CPT-31-S-5-140611 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-31

LL Sample # SW 7498367
LL Group # 1481777
Account # 11997

Project Name: 96817

Collected: 06/11/2014 10:50 by BY

Submitted: 06/13/2014 09:45
Reported: 06/23/2014 14:45

CRA
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Emeryville CA 94608

PH315

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.005	1
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.005	1
10237	Tetrachloroethene	127-18-4	N.D.	0.001	0.005	1
10237	Trichloroethene	79-01-6	N.D.	0.001	0.005	1
10237	Vinyl Chloride	75-01-4	0.003	0.001	0.005	1

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	A141672AA	06/17/2014 07:24	Stephanie A Selis	1
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201416434800	06/13/2014 17:29	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201416434800	06/13/2014 17:29	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201416434800	06/13/2014 17:18	Mitchell R Washel	n.a.

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Analysis Report

Sample Description: **CPT-30-S-5-140611 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-30

LL Sample # SW 7498368
LL Group # 1481777
Account # 11997

Project Name: 96817

Collected: 06/11/2014 13:20 by BY

Submitted: 06/13/2014 09:45
Reported: 06/23/2014 14:45

CRA
Suite A
5900 Hollis Street
Emeryville CA 94608

PH305

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	0.095	0.0009	0.005	0.92
10237	trans-1,2-Dichloroethene	156-60-5	0.005	0.0009	0.005	0.92
10237	Tetrachloroethene	127-18-4	N.D.	0.0009	0.005	0.92
10237	Trichloroethene	79-01-6	N.D.	0.0009	0.005	0.92
10237	Vinyl Chloride	75-01-4	N.D.	0.0009	0.005	0.92

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	A141672AA	06/17/2014 07:48	Stephanie A Selis	0.92
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201416434800	06/13/2014 18:06	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201416434800	06/13/2014 18:07	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201416434800	06/13/2014 17:34	Mitchell R Washel	n.a.

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Analysis Report

Sample Description: **CPT-32-S-5-140611 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-32

LL Sample # SW 7498369
LL Group # 1481777
Account # 11997

Project Name: 96817

Collected: 06/11/2014 09:20 by BY

Submitted: 06/13/2014 09:45
Reported: 06/23/2014 14:45

CRA
Suite A
5900 Hollis Street
Emeryville CA 94608

PH325

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.005	1.01
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.005	1.01
10237	Tetrachloroethene	127-18-4	N.D.	0.001	0.005	1.01
10237	Trichloroethene	79-01-6	N.D.	0.001	0.005	1.01
10237	Vinyl Chloride	75-01-4	0.005	0.001	0.005	1.01

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	A141672AA	06/17/2014 08:11	Stephanie A Selis	1.01
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201416434800	06/13/2014 18:07	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201416434800	06/13/2014 18:07	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201416434800	06/13/2014 17:37	Mitchell R Washel	n.a.

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Analysis Report

Sample Description: **CPT-32-S-11-140611 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-32

LL Sample # SW 7498370
LL Group # 1481777
Account # 11997

Project Name: 96817

Collected: 06/11/2014 13:10 by BY

Submitted: 06/13/2014 09:45
Reported: 06/23/2014 14:45

CRA
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5900 Hollis Street
Emeryville CA 94608

P3211

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	0.53	0.050	0.25	50
10237	trans-1,2-Dichloroethene	156-60-5	0.01	0.001	0.005	1.04
10237	Tetrachloroethene	127-18-4	2.2	0.050	0.25	50
10237	Trichloroethene	79-01-6	1.2	0.050	0.25	50
10237	Vinyl Chloride	75-01-4	0.005	0.001	0.005	1.04

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	A141672AA	06/17/2014 09:49	Stephanie A Selis	1.04
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	Q141691AA	06/18/2014 14:14	Sarah A Guill	50
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201416434800	06/13/2014 18:07	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201416434800	06/13/2014 18:07	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201416434800	06/13/2014 17:38	Mitchell R Washel	n.a.

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Analysis Report

Sample Description: **CPT-32-S-14-140611 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-32

LL Sample # SW 7498371
LL Group # 1481777
Account # 11997

Project Name: 96817

Collected: 06/11/2014 13:19 by BY

Submitted: 06/13/2014 09:45
Reported: 06/23/2014 14:45

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P3214

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	0.11	0.001	0.005	1.07
10237	trans-1,2-Dichloroethene	156-60-5	0.002	0.001	0.005	1.07
10237	Tetrachloroethene	127-18-4	4.4	0.048	0.24	48.26
10237	Trichloroethene	79-01-6	0.28	0.001	0.005	1.07
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	1.07

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	A141672AA	06/17/2014 10:14	Stephanie A Selis	1.07
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	Q141691AA	06/18/2014 14:37	Sarah A Guill	48.26
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201416434800	06/13/2014 18:07	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201416434800	06/13/2014 18:07	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201416434800	06/13/2014 17:40	Mitchell R Washel	n.a.

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Analysis Report

Sample Description: **CPT-32-S-16-140611 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-32

LL Sample # SW 7498372
LL Group # 1481777
Account # 11997

Project Name: 96817

Collected: 06/11/2014 13:27 by BY

Submitted: 06/13/2014 09:45
Reported: 06/23/2014 14:45

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P3216

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	0.047	0.001	0.005	0.96
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.005	0.96
10237	Tetrachloroethene	127-18-4	3.7	0.048	0.24	48.26
10237	Trichloroethene	79-01-6	0.11	0.001	0.005	0.96
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	0.96

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	A141672AA	06/17/2014 10:39	Stephanie A Selis	0.96
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	Q141691AA	06/18/2014 15:00	Sarah A Guill	48.26
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201416434800	06/13/2014 18:07	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201416434800	06/13/2014 18:07	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201416434800	06/13/2014 17:42	Mitchell R Washel	n.a.

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Analysis Report

Sample Description: **CPT-32-S-21-140611 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-32

LL Sample # SW 7498373
LL Group # 1481777
Account # 11997

Project Name: 96817

Collected: 06/11/2014 13:34 by BY

Submitted: 06/13/2014 09:45
Reported: 06/23/2014 14:45

CRA
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P3221

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	0.002	0.001	0.005	1
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.005	1
10237	Tetrachloroethene	127-18-4	1.3	0.053	0.27	53.19
10237	Trichloroethene	79-01-6	0.011	0.001	0.005	1
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	1

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	B141672AA	06/17/2014 09:48	Stephanie A Selis	1
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	Q141691AA	06/18/2014 15:23	Sarah A Guill	53.19
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201416434800	06/13/2014 18:07	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201416434800	06/13/2014 18:07	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201416434800	06/13/2014 17:44	Mitchell R Washel	n.a.

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Analysis Report

Sample Description: **CPT-32-S-26-140611 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-32

LL Sample # SW 7498374
LL Group # 1481777
Account # 11997

Project Name: 96817

Collected: 06/11/2014 13:45 by BY

Submitted: 06/13/2014 09:45
Reported: 06/23/2014 14:45

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P3226

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.005	0.99
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.005	0.99
10237	Tetrachloroethene	127-18-4	0.013	0.001	0.005	0.99
10237	Trichloroethene	79-01-6	0.002	0.001	0.005	0.99
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	0.99

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	B141672AA	06/17/2014 03:03	Stephanie A Selis	0.99
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201416434800	06/13/2014 18:07	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201416434800	06/13/2014 18:07	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201416434800	06/13/2014 17:46	Mitchell R Washel	n.a.

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Analysis Report

Sample Description: **CPT-32-S-31-140611 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-32

LL Sample # SW 7498375
LL Group # 1481777
Account # 11997

Project Name: 96817

Collected: 06/11/2014 13:56 by BY

Submitted: 06/13/2014 09:45
Reported: 06/23/2014 14:45

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Emeryville CA 94608

P3231

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.005	0.96
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.005	0.96
10237	Tetrachloroethene	127-18-4	0.011	0.001	0.005	0.96
10237	Trichloroethene	79-01-6	N.D.	0.001	0.005	0.96
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	0.96

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	B141672AA	06/17/2014 03:26	Stephanie A Selis	0.96
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201416434800	06/13/2014 18:07	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201416434800	06/13/2014 18:07	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201416434800	06/13/2014 17:55	Mitchell R Washel	n.a.

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Analysis Report

Sample Description: **CPT-32-S-36-140611 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-32

LL Sample # SW 7498376
LL Group # 1481777
Account # 11997

Project Name: 96817

Collected: 06/11/2014 14:10 by BY

Submitted: 06/13/2014 09:45
Reported: 06/23/2014 14:45

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Suite A
5900 Hollis Street
Emeryville CA 94608

P3236

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.005	0.96
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.005	0.96
10237	Tetrachloroethene	127-18-4	N.D.	0.001	0.005	0.96
10237	Trichloroethene	79-01-6	0.005	0.001	0.005	0.96
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	0.96

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	B141672AA	06/17/2014 03:48	Stephanie A Selis	0.96
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201416434800	06/13/2014 18:07	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201416434800	06/13/2014 18:07	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201416434800	06/13/2014 17:57	Mitchell R Washel	n.a.

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Analysis Report

Sample Description: **CPT-32-S-40-140611 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-32

LL Sample # SW 7498377
LL Group # 1481777
Account # 11997

Project Name: 96817

Collected: 06/11/2014 14:27 by BY

Submitted: 06/13/2014 09:45
Reported: 06/23/2014 14:45

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5900 Hollis Street
Emeryville CA 94608

P3240

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	0.005	0.001	0.005	1.03
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.005	1.03
10237	Tetrachloroethene	127-18-4	0.013	0.001	0.005	1.03
10237	Trichloroethene	79-01-6	0.011	0.001	0.005	1.03
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	1.03

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	B141672AA	06/17/2014 04:11	Stephanie A Selis	1.03
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201416434800	06/13/2014 18:07	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201416434800	06/13/2014 18:07	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201416434800	06/13/2014 18:00	Mitchell R Washel	n.a.

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Analysis Report

Sample Description: **CPT-32-S-46-140611 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-32

LL Sample # SW 7498378
LL Group # 1481777
Account # 11997

Project Name: 96817

Collected: 06/11/2014 14:50 by BY

Submitted: 06/13/2014 09:45
Reported: 06/23/2014 14:45

CRA
Suite A
5900 Hollis Street
Emeryville CA 94608

P3246

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.005	0.98
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.005	0.98
10237	Tetrachloroethene	127-18-4	N.D.	0.001	0.005	0.98
10237	Trichloroethene	79-01-6	N.D.	0.001	0.005	0.98
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	0.98

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	B141672AA	06/17/2014 04:33	Stephanie A Selis	0.98
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201416434800	06/13/2014 18:07	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201416434800	06/13/2014 18:07	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201416434800	06/13/2014 18:03	Mitchell R Washel	n.a.

*=This limit was used in the evaluation of the final result

eurofins
Lancaster Laboratories Environmental
2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

Sample Description: **CPT-27-S-5-140611 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-27

LL Sample # SW 7498379
LL Group # 1481777
Account # 11997

Project Name: 96817

Collected: 06/11/2014 14:40 by BY

Submitted: 06/13/2014 09:45
Reported: 06/23/2014 14:45

CRA
Suite A
5900 Hollis Street
Emeryville CA 94608

PH275

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	0.003	0.001	0.005	1.03
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.005	1.03
10237	Tetrachloroethene	127-18-4	N.D.	0.001	0.005	1.03
10237	Trichloroethene	79-01-6	N.D.	0.001	0.005	1.03
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	1.03

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	B141672AA	06/17/2014 04:56	Stephanie A Selis	1.03
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201416434800	06/13/2014 18:07	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201416434800	06/13/2014 18:07	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201416434800	06/13/2014 18:05	Mitchell R Washel	n.a.

*=This limit was used in the evaluation of the final result

eurofins
Lancaster Laboratories Environmental
2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

Sample Description: CPT-32-S-50-140611 Grab Soil
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-32

LL Sample # SW 7498380
LL Group # 1481777
Account # 11997

Project Name: 96817

Collected: 06/11/2014 15:05 by BY

Submitted: 06/13/2014 09:45
Reported: 06/23/2014 14:45

CRA
Suite A
5900 Hollis Street
Emeryville CA 94608

P3250

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		mg/kg	mg/kg	mg/kg	
10237	cis-1,2-Dichloroethene	156-59-2	0.001	0.001	0.005	1
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.005	1
10237	Tetrachloroethene	127-18-4	0.004	0.001	0.005	1
10237	Trichloroethene	79-01-6	0.003	0.001	0.005	1
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	1

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	B141672AA	06/17/2014 05:19	Stephanie A Selis	1
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201416434800	06/13/2014 18:14	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201416434800	06/13/2014 18:15	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	3	201416434800	06/13/2014 18:15	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	4	201416434800	06/13/2014 18:15	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201416434800	06/13/2014 18:09	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	2	201416434800	06/13/2014 18:14	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	3	201416434800	06/13/2014 18:14	Mitchell R Washel	n.a.

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: CRA Group Number: 1481777
Reported: 06/23/14 at 02:45 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: A141672AA	Sample number(s): 7498356-7498363,7498365-7498372								
cis-1,2-Dichloroethene	N.D.	0.001	0.005	mg/kg	109	104	80-120	4	30
trans-1,2-Dichloroethene	N.D.	0.001	0.005	mg/kg	111	105	79-120	5	30
Tetrachloroethene	N.D.	0.001	0.005	mg/kg	111	108	78-120	3	30
Trichloroethene	N.D.	0.001	0.005	mg/kg	110	104	80-120	5	30
Vinyl Chloride	N.D.	0.001	0.005	mg/kg	96	92	59-120	4	30
Batch number: A141712AA	Sample number(s): 7498364								
cis-1,2-Dichloroethene	N.D.	0.001	0.005	mg/kg	104	110	80-120	6	30
trans-1,2-Dichloroethene	N.D.	0.001	0.005	mg/kg	104	112	79-120	7	30
Tetrachloroethene	N.D.	0.001	0.005	mg/kg	115	116	78-120	0	30
Trichloroethene	N.D.	0.001	0.005	mg/kg	105	112	80-120	7	30
Vinyl Chloride	N.D.	0.001	0.005	mg/kg	96	107	59-120	10	30
Batch number: B141672AA	Sample number(s): 7498373-7498380								
cis-1,2-Dichloroethene	N.D.	0.001	0.005	mg/kg	94	91	80-120	3	30
trans-1,2-Dichloroethene	N.D.	0.001	0.005	mg/kg	112	103	79-120	9	30
Tetrachloroethene	N.D.	0.001	0.005	mg/kg	96	96	78-120	0	30
Trichloroethene	N.D.	0.001	0.005	mg/kg	93	92	80-120	1	30
Vinyl Chloride	N.D.	0.001	0.005	mg/kg	92	91	59-120	2	30
Batch number: Q141681AA	Sample number(s): 7498356-7498357								
cis-1,2-Dichloroethene	N.D.	0.050	0.25	mg/kg	102	101	80-120	1	30
Batch number: Q141691AA	Sample number(s): 7498370-7498373								
cis-1,2-Dichloroethene	N.D.	0.050	0.25	mg/kg	105	106	80-120	1	30
Tetrachloroethene	N.D.	0.050	0.25	mg/kg	111	111	78-120	0	30
Trichloroethene	N.D.	0.050	0.25	mg/kg	106	108	80-120	1	30

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 8260 Ext. Soil Master w/GRO
Batch number: A141672AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7498356	106	103	108	84

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CRA
Reported: 06/23/14 at 02:45 PM

Group Number: 1481777

Surrogate Quality Control

7498357	105	102	99	91
7498358	107	108	98	94
7498359	106	104	99	91
7498360	108	108	98	93
7498361	107	104	99	91
7498362	108	104	99	92
7498363	109	108	99	92
7498365	110	107	98	90
7498366	110	106	97	92
7498367	107	112	99	93
7498368	105	102	106	90
7498369	105	103	102	87
7498370	111	105	97	89
7498371	110	104	96	84
7498372	112	107	97	84
Blank	106	106	98	94
LCS	105	105	100	101
LCSD	104	105	101	101
Limits:	50-141	54-135	52-141	50-131

Analysis Name: 8260 Ext. Soil Master w/GRO
Batch number: A141712AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7498364	110	109	98	93
Blank	108	107	97	93
LCS	104	106	100	99
LCSD	103	104	101	100
Limits:	50-141	54-135	52-141	50-131

Analysis Name: 8260 Ext. Soil Master w/GRO
Batch number: B141672AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7498373	112	104	94	85
7498374	109	109	96	93
7498375	110	105	95	92
7498376	111	112	97	94
7498377	110	106	98	93
7498378	113	110	95	93
7498379	113	110	96	92
7498380	111	103	94	91
Blank	110	108	97	93
LCS	106	107	99	100
LCSD	106	107	98	100
Limits:	50-141	54-135	52-141	50-131

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Chevron California Region Analysis Request/Chain of Custody

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Ø61214-Ø2 P: 2 OF 2

Acct. # 11997 For Lancaster Laboratories use only Group # 1481777 Sample # 7498356-80

Instructions on reverse side correspond with circled numbers.

SCR #: _____

(1) Client Information

Facility #: CHEVRON 96817

WBS:

Site Address: 1705 CONTRA COSTA BLVD. PLEASANT HILL, CA

Chevron PM: BRIAN WAITE

Lead Consultant: CRA

Consultant/Office: EMERYVILLE, CA

Consultant Project Mgr.: CELINA HERNANDEZ

Consultant Phone #: 510-420-3340

Sampler: BELEW YIFRU

(4) Matrix

☐ Sediment ☐ Ground ☐ Surface ☐ Potable ☐ NPDES ☐ Air ☐ Oil ☒ Soil ☐ Water

(5) Analyses Requested

☐ BTEX + MTBE 8021 ☐ 8260 ☐ TPH GRO 8015 ☐ 8260 ☐ TPH 8015 MOD DRO ☐ Silica Gel Cleanup ☐ 8260 Full Scan ☐ Oxygenates ☐ Total Lead ☐ Dissolved Lead ☐ 8260 See comments

☐ Total Number of Containers

☐ Results in Dry Weight
☐ J value reporting needed
☐ Must meet lowest detection limits possible for 8260 compounds
☐ 8021 MTBE Confirmation
☐ Confirm highest hit by 8260
☐ Confirm all hits by 8260
☐ Run _____ oxy's on highest hit
☐ Run _____ oxy's on all hits

(2) Sample Identification	Collected Date	Collected Time	(3) Grab	Composite	Soil	Water	Oil	Total Number of Containers	BTEX + MTBE 8021	TPH GRO 8015	TPH 8015 MOD DRO	Silica Gel Cleanup	8260 Full Scan	Oxygenates	Total Lead	Dissolved Lead	8260 See comments
CPT-26-5	6/11/14	815	X		X			1									X
CPT-26-10	6/11/14	902	↓		↓			↓									↓
CPT-26-12	6/11/14	908	↓		↓			↓									↓
CPT-26-15	6/11/14	915	↓		↓			↓									↓
CPT-26-20	6/11/14	928	↓		↓			↓									↓
CPT-26-25	6/11/14	937	↓		↓			↓									↓
CPT-26-30	6/11/14	952	↓		↓			↓									↓
CPT-26-35	6/11/14	1009	↓		↓			↓									↓
CPT-26-40	6/11/14	1025	↓		↓			↓									↓
CPT-26-45	6/11/14	1040	↓		↓			↓									↓
CPT-26-50	6/11/14	1059	↓		↓			↓									↓
CPT-31-5	6/11/14	1050	↓		↓			↓									↓
CPT-30-5	6/11/14	1320	↓		↓			↓									↓

(6) Remarks

PCE, TCE, cis-1,2 DCE, trans-1,2 DCE, VC

Send Results to:
bwilken@cracworld.com
AND
chernandez@cracworld.com

(7) Turnaround Time Requested (TAT) (please circle)

Standard | 5 day | 4 day | 72 hour | 48 hour | 24 hour

(8) Data Package Options (please circle if required)

Type I - Full | Type VI (Raw Data)

Relinquished by	Date	Time	Received by	Date	Time
BELEW YIFRU	6/11/14	17:30	[signature]	6/11/14	17:30
[signature]	6/12/14	1115	A. Aulger	12 JUN 14	1115
Relinquished by ~~Commerical Carrier:~~ A. Aulger 12JUN14 ~~UPS~~ ____ ~~FedEx~~ ____ Other 1638			UPS		

Temperature Upon Receipt 0.3 °C

Custody Seals Intact? Yes No

(9)

Lancaster Laboratories, Inc. • 2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300

The white copy should accompany samples to Lancaster Laboratories. The yellow copy should be retained by the client.

Issued by Dept. 40 Management 6-13-14 7010/01

Chevron California Region Analysis Request/Chain of Custody

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06 1214-02
P, 1 OF 2

Acct. # 11997 For Lancaster Laboratories use only Group # 1481777 Sample # 7498356-80
Instructions on reverse side correspond with circled numbers.

SCR #: _____

1 Client Information

Facility #: CHEVRON 96817
WBS:
Site Address: 1705 CONTRA COSTA BLVD, PLEASANT HILL, CA
Chevron PM: BRIAN WAITE
Lead Consultant:
Consultant/Office: EMERYVILLE, CA
Consultant Project Mgr.: CELINA HERNANDEZ
Consultant Phone #: 510 420 3340
Sampler: BELEW YIFRU

4 Matrix: Sediment ☐ Ground ☐ Surface ☐ Potable ☐ NPDES ☐ Air ☐ Soil ☒ Water ☐ Oil ☐

5 Analyses Requested: BTEX + MTBE 8021 ☐ 8260 ☐; TPH GRO 8015 ☐ 8260 ☐; TPH 8015 MOD DRO; Silica Gel Cleanup; 8260 Full Scan; Oxygenates; Total Lead; Dissolved Lead; Method; Method; 8260 See Comments

- ☐ Results in Dry Weight
- ☐ J value reporting needed
- ☐ Must meet lowest detection limits possible for 8260 compounds
- ☐ 8021 MTBE Confirmation
- ☐ Confirm highest hit by 8260
- ☐ Confirm all hits by 8260
- ☐ Run _____ oxy's on highest hit
- ☐ Run _____ oxy's on all hits

2 Sample Identification	Collected Date	Collected Time	3 Grab	Composite	Soil	Water	Oil	Total Number of Containers	BTEX + MTBE 8021	TPH GRO 8015	TPH 8015 MOD DRO	Silica Gel Cleanup	8260 Full Scan	Oxygenates	Total Lead	Dissolved Lead	8260 See Comments
CPT-32-5	6/11/14	920	X		X			1									X
CPT-32-11	6/11/14	1310	↓		↓			↓									↓
CPT-32-14	6/11/14	1319	↓		↓			↓									↓
CPT-32-16	6/11/14	1327	↓		↓			↓									↓
CPT-32-21	6/11/14	1334	↓		↓			↓									↓
CPT-32-26	6/11/14	1345	↓		↓			↓									↓
CPT-32-31	6/11/14	1356	↓		↓			↓									↓
CPT-32-36	6/11/14	1410	↓		↓			↓									↓
CPT-32-40	6/11/14	1427	↓		↓			↓									↓
CPT-32-46	6/11/14	1450	↓		↓			↓									↓
CPT-27-5	6/11/14	1440	↓		↓			↓									↓
CPT-32-50	6/11/14	1505	↓		↓			↓									↓

6 Remarks

PCE, TCE, cis-1,2 DCE, trans-1,2 DCE, VC

Send Results to:
bloiken@craworld.com
AND
chernandez@craworld.com

7 Turnaround Time Requested (TAT) (please circle)

Standard | 5 day | 4 day
72 hour | 48 hour | 24 hour

8 Data Package Options (please circle if required)

Type I - Full | Type VI (Raw Data)

Relinquished by	Date	Time	Received by	Date	Time
BELEW YIFRU	6/11/14	17:30	SECURE LOCATION	6/11/14	17:30
A. Auber	12 JUN 14	1115	A. Auber 12	JUN 14	1115
A. Auber 12 JUN 14			UPS		

Relinquished by ~~Commerical Carrier:~~ ~~UPS~~ ____ ~~FedEx~~ ____ ~~Other~~ 1636

Temperature Upon Receipt 0.3 °C

Custody Seals Intact? Yes No

Brian Blu 6.13.14 1945

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
µg	microgram(s)	**mg**	milligram(s)
mL	milliliter(s)	**L**	liter(s)
m3	cubic meter(s)	**µL**	microliter(s)
		pg/L	picogram/liter

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

Data Qualifiers:

C – result confirmed by reanalysis.

J - estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

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ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

CRA
Suite A
5900 Hollis Street
Emeryville CA 94608

June 25, 2014

Project: 96817

Submittal Date: 06/14/2014
Group Number: 1481965
PO Number: 96817
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LL) #
CPT-28-S-5-140612 Grab Soil	7499531
CPT-27-S-10-140612 Grab Soil	7499532
CPT-27-S-15-140612 Grab Soil	7499533
CPT-27-S-20-140612 Grab Soil	7499534
CPT-27-S-21-140612 Grab Soil	7499535
CPT-27-S-23-140612 Grab Soil	7499536
CPT-27-S-25-140612 Grab Soil	7499537
CPT-27-S-30-140612 Grab Soil	7499538
CPT-27-S-35-140612 Grab Soil	7499539
CPT-27-S-45-140612 Grab Soil	7499540
CPT-27-S-47-140612 Grab Soil	7499541
CPT-27-S-50-140612 Grab Soil	7499542
CPT-31-S-10-140612 Grab Soil	7499543
CPT-31-S-12-140612 Grab Soil	7499544
CPT-31-S-14-140612 Grab Soil	7499545
CPT-31-S-16-140612 Grab Soil	7499546
CPT-31-S-21-140612 Grab Soil	7499547
CPT-31-S-26-140612 Grab Soil	7499548
CPT-31-S-31-140612 Grab Soil	7499549
CPT-31-S-35-140612 Grab Soil	7499550
CPT-31-S-45-140612 Grab Soil	7499551
CPT-31-S-50-140612 Grab Soil	7499552
CPT-22-S-5-140612 Grab Soil	7499553
CPT-29-S-5-140612 Grab Soil	7499554
CPT-21-S-5-140612 Grab Soil	7499555
CPT-30-S-10-140613 Grab Soil	7499556
CPT-30-S-15-140613 Grab Soil	7499557
CPT-30-S-20-140613 Grab Soil	7499558
CPT-30-S-25-140613 Grab Soil	7499559
CPT-30-S-30-140613 Grab Soil	7499560
CPT-30-S-35-140613 Grab Soil	7499561
CPT-30-S-45-140613 Grab Soil	7499562

CPT-30-S-40-140613 Grab Soil	7499563
CPT-30-S-50-140613 Grab Soil	7499564

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CRA	Attn: Celina Hernandez
ELECTRONIC COPY TO	Chevron c/o CRA	Attn: Brandon Wilken

Respectfully Submitted,

Natalie R. Luciano
Senior Specialist

(717) 556-7258

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Analysis Report

Sample Description: **CPT-28-S-5-140612 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-28

LL Sample # SW 7499531
LL Group # 1481965
Account # 11997

Project Name: 96817

Collected: 06/12/2014 08:05 by AB

Submitted: 06/14/2014 10:10
Reported: 06/25/2014 12:22

CRA
Suite A
5900 Hollis Street
Emeryville CA 94608

C2805

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.0009	0.005	0.95
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.0009	0.005	0.95
10237	Tetrachloroethene	127-18-4	N.D.	0.0009	0.005	0.95
10237	Trichloroethene	79-01-6	N.D.	0.0009	0.005	0.95
10237	Vinyl Chloride	75-01-4	N.D.	0.0009	0.005	0.95

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	A141701AA	06/19/2014 16:59	Angela D Sneeringer	0.95
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201416534815	06/14/2014 19:26	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201416534815	06/14/2014 19:26	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201416534815	06/14/2014 18:09	Mitchell R Washel	n.a.

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Analysis Report

Sample Description: **CPT-27-S-10-140612 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-27

LL Sample # SW 7499532
LL Group # 1481965
Account # 11997

Project Name: 96817

Collected: 06/12/2014 08:12 by AB

Submitted: 06/14/2014 10:10
Reported: 06/25/2014 12:22

CRA
Suite A
5900 Hollis Street
Emeryville CA 94608

C2710

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.005	1
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.005	1
10237	Tetrachloroethene	127-18-4	N.D.	0.001	0.005	1
10237	Trichloroethene	79-01-6	N.D.	0.001	0.005	1
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	1

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	B141672AA	06/17/2014 06:04	Stephanie A Selis	1
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201416534815	06/14/2014 19:26	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201416534815	06/14/2014 19:26	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201416534815	06/14/2014 18:11	Mitchell R Washel	n.a.

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Analysis Report

Sample Description: **CPT-27-S-15-140612 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-27

LL Sample # SW 7499533
LL Group # 1481965
Account # 11997

Project Name: 96817

Collected: 06/12/2014 08:15 by AB

Submitted: 06/14/2014 10:10
Reported: 06/25/2014 12:22

CRA
Suite A
5900 Hollis Street
Emeryville CA 94608

C2715

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.005	1.02
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.005	1.02
10237	Tetrachloroethene	127-18-4	N.D.	0.001	0.005	1.02
10237	Trichloroethene	79-01-6	N.D.	0.001	0.005	1.02
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	1.02

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	B141672AA	06/17/2014 06:26	Stephanie A Selis	1.02
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201416534815	06/14/2014 19:26	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201416534815	06/14/2014 19:26	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201416534815	06/14/2014 18:13	Mitchell R Washel	n.a.

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Analysis Report

Sample Description: **CPT-27-S-20-140612 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-27

LL Sample # SW 7499534
LL Group # 1481965
Account # 11997

Project Name: 96817

Collected: 06/12/2014 08:25 by AB

Submitted: 06/14/2014 10:10
Reported: 06/25/2014 12:22

CRA
Suite A
5900 Hollis Street
Emeryville CA 94608

C2720

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.005	1.04
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.005	1.04
10237	Tetrachloroethene	127-18-4	N.D.	0.001	0.005	1.04
10237	Trichloroethene	79-01-6	N.D.	0.001	0.005	1.04
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	1.04

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	B141672AA	06/17/2014 06:48	Stephanie A Selis	1.04
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201416534815	06/14/2014 19:26	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201416534815	06/14/2014 19:26	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201416534815	06/14/2014 18:16	Mitchell R Washel	n.a.

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Analysis Report

Sample Description: **CPT-27-S-21-140612 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-27

LL Sample # SW 7499535
LL Group # 1481965
Account # 11997

Project Name: 96817

Collected: 06/12/2014 08:30 by AB

Submitted: 06/14/2014 10:10
Reported: 06/25/2014 12:22

CRA
Suite A
5900 Hollis Street
Emeryville CA 94608

C2721

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.005	0.95
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.005	0.95
10237	Tetrachloroethene	127-18-4	N.D.	0.001	0.005	0.95
10237	Trichloroethene	79-01-6	N.D.	0.001	0.005	0.95
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	0.95

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	B141672AA	06/17/2014 07:11	Stephanie A Selis	0.95
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201416534815	06/14/2014 19:26	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201416534815	06/14/2014 19:26	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201416534815	06/14/2014 18:18	Mitchell R Washel	n.a.

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Analysis Report

Sample Description: **CPT-27-S-23-140612 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-27

LL Sample # SW 7499536
LL Group # 1481965
Account # 11997

Project Name: 96817

Collected: 06/12/2014 09:15 by AB

Submitted: 06/14/2014 10:10
Reported: 06/25/2014 12:22

CRA
Suite A
5900 Hollis Street
Emeryville CA 94608

C2723

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.005	0.97
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.005	0.97
10237	Tetrachloroethene	127-18-4	N.D.	0.001	0.005	0.97
10237	Trichloroethene	79-01-6	N.D.	0.001	0.005	0.97
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	0.97

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	B141672AA	06/17/2014 07:33	Stephanie A Selis	0.97
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201416534815	06/14/2014 19:26	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201416534815	06/14/2014 19:26	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201416534815	06/14/2014 18:20	Mitchell R Washel	n.a.

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Analysis Report

Sample Description: **CPT-27-S-25-140612 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-27

LL Sample # SW 7499537
LL Group # 1481965
Account # 11997

Project Name: 96817

Collected: 06/12/2014 09:24 by AB

Submitted: 06/14/2014 10:10
Reported: 06/25/2014 12:22

CRA
Suite A
5900 Hollis Street
Emeryville CA 94608

C2725

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.005	1
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.005	1
10237	Tetrachloroethene	127-18-4	N.D.	0.001	0.005	1
10237	Trichloroethene	79-01-6	N.D.	0.001	0.005	1
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	1

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	B141672AA	06/17/2014 07:56	Stephanie A Selis	1
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201416534815	06/14/2014 19:26	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201416534815	06/14/2014 19:26	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201416534815	06/14/2014 18:22	Mitchell R Washel	n.a.

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Analysis Report

Sample Description: **CPT-27-S-30-140612 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-27

LL Sample # SW 7499538
LL Group # 1481965
Account # 11997

Project Name: 96817

Collected: 06/12/2014 09:30 by AB

Submitted: 06/14/2014 10:10
Reported: 06/25/2014 12:22

CRA
Suite A
5900 Hollis Street
Emeryville CA 94608

C2730

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.005	0.99
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.005	0.99
10237	Tetrachloroethene	127-18-4	N.D.	0.001	0.005	0.99
10237	Trichloroethene	79-01-6	N.D.	0.001	0.005	0.99
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	0.99

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	B141672AA	06/17/2014 08:19	Stephanie A Selis	0.99
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201416534815	06/14/2014 19:26	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201416534815	06/14/2014 19:26	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201416534815	06/14/2014 18:24	Mitchell R Washel	n.a.

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Analysis Report

Sample Description: **CPT-27-S-35-140612 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-27

LL Sample # SW 7499539
LL Group # 1481965
Account # 11997

Project Name: 96817

Collected: 06/12/2014 09:42 by AB

Submitted: 06/14/2014 10:10
Reported: 06/25/2014 12:22

CRA
Suite A
5900 Hollis Street
Emeryville CA 94608

C2735

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.005	0.97
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.005	0.97
10237	Tetrachloroethene	127-18-4	N.D.	0.001	0.005	0.97
10237	Trichloroethene	79-01-6	N.D.	0.001	0.005	0.97
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	0.97

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	B141672AA	06/17/2014 08:41	Stephanie A Selis	0.97
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201416534815	06/14/2014 19:26	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201416534815	06/14/2014 19:26	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201416534815	06/14/2014 18:26	Mitchell R Washel	n.a.

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Analysis Report

Sample Description: **CPT-27-S-45-140612 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-27

LL Sample # SW 7499540
LL Group # 1481965
Account # 11997

Project Name: 96817

Collected: 06/12/2014 10:07 by AB

Submitted: 06/14/2014 10:10
Reported: 06/25/2014 12:22

CRA
Suite A
5900 Hollis Street
Emeryville CA 94608

C2745

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.0009	0.005	0.93
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.0009	0.005	0.93
10237	Tetrachloroethene	127-18-4	N.D.	0.0009	0.005	0.93
10237	Trichloroethene	79-01-6	N.D.	0.0009	0.005	0.93
10237	Vinyl Chloride	75-01-4	N.D.	0.0009	0.005	0.93

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	B141672AA	06/17/2014 09:03	Stephanie A Selis	0.93
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201416534815	06/14/2014 19:26	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201416534815	06/14/2014 19:26	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201416534815	06/14/2014 18:28	Mitchell R Washel	n.a.

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Analysis Report

Sample Description: **CPT-27-S-47-140612 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-27

LL Sample # SW 7499541
LL Group # 1481965
Account # 11997

Project Name: 96817

Collected: 06/12/2014 10:20 by AB

Submitted: 06/14/2014 10:10
Reported: 06/25/2014 12:22

CRA
Suite A
5900 Hollis Street
Emeryville CA 94608

C2747

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.005	1.01
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.005	1.01
10237	Tetrachloroethene	127-18-4	N.D.	0.001	0.005	1.01
10237	Trichloroethene	79-01-6	N.D.	0.001	0.005	1.01
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	1.01

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	B141672AA	06/17/2014 09:26	Stephanie A Selis	1.01
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201416534815	06/14/2014 19:26	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201416534815	06/14/2014 19:26	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201416534815	06/14/2014 18:30	Mitchell R Washel	n.a.

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Analysis Report

Sample Description: **CPT-27-S-50-140612 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-27

LL Sample # SW 7499542
LL Group # 1481965
Account # 11997

Project Name: 96817

Collected: 06/12/2014 10:37 by AB

Submitted: 06/14/2014 10:10
Reported: 06/25/2014 12:22

CRA
Suite A
5900 Hollis Street
Emeryville CA 94608

C2750

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.005	0.98
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.005	0.98
10237	Tetrachloroethene	127-18-4	N.D.	0.001	0.005	0.98
10237	Trichloroethene	79-01-6	N.D.	0.001	0.005	0.98
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	0.98

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	A141701AA	06/19/2014 17:23	Angela D Sneeringer	0.98
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201416534815	06/14/2014 19:26	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201416534815	06/14/2014 19:26	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201416534815	06/14/2014 18:32	Mitchell R Washel	n.a.

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Analysis Report

Sample Description: **CPT-31-S-10-140612 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-31

LL Sample # SW 7499543
LL Group # 1481965
Account # 11997

Project Name: 96817

Collected: 06/12/2014 12:49 by AB

Submitted: 06/14/2014 10:10
Reported: 06/25/2014 12:22

CRA
Suite A
5900 Hollis Street
Emeryville CA 94608

31-10

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	0.38	0.046	0.23	46.13
10237	trans-1,2-Dichloroethene	156-60-5	0.011	0.001	0.005	1.05
10237	Tetrachloroethene	127-18-4	0.53	0.046	0.23	46.13
10237	Trichloroethene	79-01-6	0.66	0.046	0.23	46.13
10237	Vinyl Chloride	75-01-4	0.011	0.001	0.005	1.05

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	A141701AA	06/19/2014 17:47	Angela D Sneeringer	1.05
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	Q141711AA	06/20/2014 21:29	Andrea E Lando	46.13
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201416534815	06/14/2014 19:26	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201416534815	06/14/2014 19:26	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201416534815	06/14/2014 19:04	Mitchell R Washel	n.a.

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Sample Description: **CPT-31-S-12-140612 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-31

LL Sample # SW 7499544
LL Group # 1481965
Account # 11997

Project Name: 96817

Collected: 06/12/2014 12:55 by AB

Submitted: 06/14/2014 10:10
Reported: 06/25/2014 12:22

CRA
Suite A
5900 Hollis Street
Emeryville CA 94608

31-12

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	0.044	0.001	0.005	0.97
10237	trans-1,2-Dichloroethene	156-60-5	0.001	0.001	0.005	0.97
10237	Tetrachloroethene	127-18-4	1.8	0.048	0.24	48.36
10237	Trichloroethene	79-01-6	0.080	0.001	0.005	0.97
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	0.97

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	A141712AA	06/21/2014 10:43	Stephanie A Selis	0.97
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	R141751AA	06/24/2014 12:57	Sarah A Guill	48.36
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201416534815	06/14/2014 19:26	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201416534815	06/14/2014 19:27	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201416534815	06/14/2014 19:06	Mitchell R Washel	n.a.

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Analysis Report

Sample Description: **CPT-31-S-14-140612 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-31

LL Sample # SW 7499545
LL Group # 1481965
Account # 11997

Project Name: 96817

Collected: 06/12/2014 13:00 by AB

Submitted: 06/14/2014 10:10
Reported: 06/25/2014 12:22

CRA
Suite A
5900 Hollis Street
Emeryville CA 94608

C3114

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	0.038	0.001	0.005	0.99
10237	trans-1,2-Dichloroethene	156-60-5	0.002	0.001	0.005	0.99
10237	Tetrachloroethene	127-18-4	0.90	0.051	0.25	50.92
10237	Trichloroethene	79-01-6	0.087	0.001	0.005	0.99
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	0.99

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	A141712AA	06/21/2014 11:07	Stephanie A Selis	0.99
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	R141751AA	06/24/2014 13:20	Sarah A Guill	50.92
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201416534815	06/14/2014 19:27	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201416534815	06/14/2014 19:27	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201416534815	06/14/2014 19:08	Mitchell R Washel	n.a.

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Analysis Report

Sample Description: **CPT-31-S-16-140612 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-31

LL Sample # SW 7499546
LL Group # 1481965
Account # 11997

Project Name: 96817

Collected: 06/12/2014 13:10 by AB

Submitted: 06/14/2014 10:10
Reported: 06/25/2014 12:22

CRA
Suite A
5900 Hollis Street
Emeryville CA 94608

C3116

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	0.041	0.001	0.005	0.98
10237	trans-1,2-Dichloroethene	156-60-5	0.002	0.001	0.005	0.98
10237	Tetrachloroethene	127-18-4	0.45	0.048	0.24	48.08
10237	Trichloroethene	79-01-6	0.12	0.001	0.005	0.98
10237	Vinyl Chloride	75-01-4	0.002	0.001	0.005	0.98

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	A141701AA	06/19/2014 18:12	Angela D Sneeringer	0.98
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	Q141711AA	06/20/2014 21:52	Andrea E Lando	48.08
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201416534815	06/14/2014 19:27	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201416534815	06/14/2014 19:27	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201416534815	06/14/2014 19:10	Mitchell R Washel	n.a.

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Analysis Report

Sample Description: **CPT-31-S-21-140612 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-31

LL Sample # SW 7499547
LL Group # 1481965
Account # 11997

Project Name: 96817

Collected: 06/12/2014 13:20 by AB

Submitted: 06/14/2014 10:10
Reported: 06/25/2014 12:22

CRA
Suite A
5900 Hollis Street
Emeryville CA 94608

C3121

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	0.019	0.001	0.005	0.97
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.005	0.97
10237	Tetrachloroethene	127-18-4	0.041	0.001	0.005	0.97
10237	Trichloroethene	79-01-6	0.037	0.001	0.005	0.97
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	0.97

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	A141701AA	06/19/2014 18:38	Angela D Sneeringer	0.97
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201416534815	06/14/2014 19:27	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201416534815	06/14/2014 19:27	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201416534815	06/14/2014 19:13	Mitchell R Washel	n.a.

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Analysis Report

Sample Description: **CPT-31-S-26-140612 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-31

LL Sample # SW 7499548
LL Group # 1481965
Account # 11997

Project Name: 96817

Collected: 06/12/2014 13:29 by AB

Submitted: 06/14/2014 10:10
Reported: 06/25/2014 12:22

CRA
Suite A
5900 Hollis Street
Emeryville CA 94608

C3126

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.005	0.97
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.005	0.97
10237	Tetrachloroethene	127-18-4	0.004	0.001	0.005	0.97
10237	Trichloroethene	79-01-6	0.001	0.001	0.005	0.97
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	0.97

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	A141701AA	06/19/2014 19:01	Angela D Sneeringer	0.97
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201416534815	06/14/2014 19:27	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201416534815	06/14/2014 19:27	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201416534815	06/14/2014 19:15	Mitchell R Washel	n.a.

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Analysis Report

Sample Description: **CPT-31-S-31-140612 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-31

LL Sample # SW 7499549
LL Group # 1481965
Account # 11997

Project Name: 96817

Collected: 06/12/2014 13:41 by AB

Submitted: 06/14/2014 10:10
Reported: 06/25/2014 12:22

CRA
Suite A
5900 Hollis Street
Emeryville CA 94608

C3131

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	0.001	0.001	0.005	1.02
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.005	1.02
10237	Tetrachloroethene	127-18-4	0.003	0.001	0.005	1.02
10237	Trichloroethene	79-01-6	0.003	0.001	0.005	1.02
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	1.02

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	A141701AA	06/19/2014 19:26	Angela D Sneeringer	1.02
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201416534815	06/14/2014 19:27	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201416534815	06/14/2014 19:27	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201416534815	06/14/2014 19:17	Mitchell R Washel	n.a.

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Analysis Report

Sample Description: CPT-31-S-35-140612 Grab Soil
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-31

LL Sample # SW 7499550
LL Group # 1481965
Account # 11997

Project Name: 96817

Collected: 06/12/2014 13:52 by AB

Submitted: 06/14/2014 10:10
Reported: 06/25/2014 12:22

CRA
Suite A
5900 Hollis Street
Emeryville CA 94608

C3135

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		mg/kg	mg/kg	mg/kg	
10237	cis-1,2-Dichloroethene	156-59-2	0.002	0.001	0.005	0.99
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.005	0.99
10237	Tetrachloroethene	127-18-4	0.006	0.001	0.005	0.99
10237	Trichloroethene	79-01-6	0.006	0.001	0.005	0.99
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	0.99

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	A141701AA	06/19/2014 15:45	Angela D Sneeringer	0.99
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201416534815	06/14/2014 19:27	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201416534815	06/14/2014 19:27	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	3	201416534815	06/14/2014 19:27	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	4	201416534815	06/14/2014 19:27	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201416534815	06/14/2014 19:23	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	2	201416534815	06/14/2014 19:24	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	3	201416534815	06/14/2014 19:25	Mitchell R Washel	n.a.

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Analysis Report

Sample Description: **CPT-31-S-45-140612 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-31

LL Sample # SW 7499551
LL Group # 1481965
Account # 11997

Project Name: 96817

Collected: 06/12/2014 14:17 by AB

Submitted: 06/14/2014 10:10
Reported: 06/25/2014 12:22

CRA
Suite A
5900 Hollis Street
Emeryville CA 94608

C3145

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	0.003	0.001	0.005	0.98
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.005	0.98
10237	Tetrachloroethene	127-18-4	0.003	0.001	0.005	0.98
10237	Trichloroethene	79-01-6	0.006	0.001	0.005	0.98
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	0.98

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	A141701AA	06/19/2014 19:50	Angela D Sneeringer	0.98
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201416534815	06/14/2014 19:56	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201416534815	06/14/2014 19:56	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201416534815	06/14/2014 19:30	Mitchell R Washel	n.a.

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Analysis Report

Sample Description: **CPT-31-S-50-140612 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-31

LL Sample # SW 7499552
LL Group # 1481965
Account # 11997

Project Name: 96817

Collected: 06/12/2014 14:30 by AB

Submitted: 06/14/2014 10:10
Reported: 06/25/2014 12:22

CRA
Suite A
5900 Hollis Street
Emeryville CA 94608

C3150

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.005	1.05
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.005	1.05
10237	Tetrachloroethene	127-18-4	N.D.	0.001	0.005	1.05
10237	Trichloroethene	79-01-6	0.002	0.001	0.005	1.05
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	1.05

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	A141701AA	06/19/2014 20:16	Angela D Sneeringer	1.05
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201416534815	06/14/2014 19:56	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201416534815	06/14/2014 19:56	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201416534815	06/14/2014 19:32	Mitchell R Washel	n.a.

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Analysis Report

Sample Description: **CPT-22-S-5-140612 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-22

LL Sample # SW 7499553
LL Group # 1481965
Account # 11997

Project Name: 96817

Collected: 06/12/2014 09:30 by AB

Submitted: 06/14/2014 10:10
Reported: 06/25/2014 12:22

CRA
Suite A
5900 Hollis Street
Emeryville CA 94608

C2205

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	0.005	0.001	0.005	1.02
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.005	1.02
10237	Tetrachloroethene	127-18-4	0.002	0.001	0.005	1.02
10237	Trichloroethene	79-01-6	0.002	0.001	0.005	1.02
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	1.02

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	A141701AA	06/19/2014 20:40	Angela D Sneeringer	1.02
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201416534815	06/14/2014 19:56	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201416534815	06/14/2014 19:56	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201416534815	06/14/2014 19:34	Mitchell R Washel	n.a.

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Analysis Report

Sample Description: **CPT-29-S-5-140612 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-29

LL Sample # SW 7499554
LL Group # 1481965
Account # 11997

Project Name: 96817

Collected: 06/12/2014 10:30 by AB

Submitted: 06/14/2014 10:10
Reported: 06/25/2014 12:22

CRA
Suite A
5900 Hollis Street
Emeryville CA 94608

C2905

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	0.001	0.001	0.005	1.01
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.005	1.01
10237	Tetrachloroethene	127-18-4	N.D.	0.001	0.005	1.01
10237	Trichloroethene	79-01-6	N.D.	0.001	0.005	1.01
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	1.01

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	A141712AA	06/21/2014 06:19	Stephanie A Selis	1.01
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201416534815	06/14/2014 19:56	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201416534815	06/14/2014 19:56	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201416534815	06/14/2014 19:41	Mitchell R Washel	n.a.

*=This limit was used in the evaluation of the final result

Sample Description: **CPT-21-S-5-140612 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-21

LL Sample # SW 7499555
LL Group # 1481965
Account # 11997

Project Name: 96817

Collected: 06/12/2014 13:00 by AB

Submitted: 06/14/2014 10:10
Reported: 06/25/2014 12:22

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Suite A
5900 Hollis Street
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C2105

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.005	1.02
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.005	1.02
10237	Tetrachloroethene	127-18-4	N.D.	0.001	0.005	1.02
10237	Trichloroethene	79-01-6	N.D.	0.001	0.005	1.02
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	1.02

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	A141712AA	06/21/2014 06:43	Stephanie A Selis	1.02
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201416534815	06/14/2014 19:56	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201416534815	06/14/2014 19:56	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201416534815	06/14/2014 19:43	Mitchell R Washel	n.a.

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Analysis Report

Sample Description: **CPT-30-S-10-140613 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-30

LL Sample # SW 7499556
LL Group # 1481965
Account # 11997

Project Name: 96817

Collected: 06/13/2014 08:10 by AB

Submitted: 06/14/2014 10:10
Reported: 06/25/2014 12:22

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5900 Hollis Street
Emeryville CA 94608

C3010

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	0.041	0.001	0.005	0.97
10237	trans-1,2-Dichloroethene	156-60-5	0.002	0.001	0.005	0.97
10237	Tetrachloroethene	127-18-4	N.D.	0.001	0.005	0.97
10237	Trichloroethene	79-01-6	0.012	0.001	0.005	0.97
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	0.97

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	A141712AA	06/21/2014 07:06	Stephanie A Selis	0.97
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201416534815	06/14/2014 19:56	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201416534815	06/14/2014 19:56	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201416534815	06/14/2014 19:45	Mitchell R Washel	n.a.

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Analysis Report

Sample Description: **CPT-30-S-15-140613 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-30

LL Sample # SW 7499557
LL Group # 1481965
Account # 11997

Project Name: 96817

Collected: 06/13/2014 08:18 by AB

Submitted: 06/14/2014 10:10
Reported: 06/25/2014 12:22

CRA
Suite A
5900 Hollis Street
Emeryville CA 94608

C3015

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.005	1.02
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.005	1.02
10237	Tetrachloroethene	127-18-4	0.002	0.001	0.005	1.02
10237	Trichloroethene	79-01-6	0.001	0.001	0.005	1.02
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	1.02

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	A141712AA	06/21/2014 07:30	Stephanie A Selis	1.02
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201416534815	06/14/2014 19:56	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201416534815	06/14/2014 19:56	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201416534815	06/14/2014 19:47	Mitchell R Washel	n.a.

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Analysis Report

Sample Description: **CPT-30-S-20-140613 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-30

LL Sample # SW 7499558
LL Group # 1481965
Account # 11997

Project Name: 96817

Collected: 06/13/2014 08:28 by AB

Submitted: 06/14/2014 10:10
Reported: 06/25/2014 12:22

CRA
Suite A
5900 Hollis Street
Emeryville CA 94608

C3020

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.005	1.01
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.005	1.01
10237	Tetrachloroethene	127-18-4	N.D.	0.001	0.005	1.01
10237	Trichloroethene	79-01-6	N.D.	0.001	0.005	1.01
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	1.01

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	A141712AA	06/21/2014 07:54	Stephanie A Selis	1.01
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201416534815	06/14/2014 19:56	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201416534815	06/14/2014 19:56	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201416534815	06/14/2014 19:49	Mitchell R Washel	n.a.

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Analysis Report

Sample Description: **CPT-30-S-25-140613 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-30

LL Sample # SW 7499559
LL Group # 1481965
Account # 11997

Project Name: 96817

Collected: 06/13/2014 08:38 by AB

Submitted: 06/14/2014 10:10
Reported: 06/25/2014 12:22

CRA
Suite A
5900 Hollis Street
Emeryville CA 94608

C3025

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.005	1
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.005	1
10237	Tetrachloroethene	127-18-4	N.D.	0.001	0.005	1
10237	Trichloroethene	79-01-6	N.D.	0.001	0.005	1
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	1

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	A141712AA	06/21/2014 08:18	Stephanie A Selis	1
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201416534815	06/14/2014 19:56	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201416534815	06/14/2014 19:56	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201416534815	06/14/2014 19:51	Mitchell R Washel	n.a.

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Analysis Report

Sample Description: **CPT-30-S-30-140613 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-30

LL Sample # SW 7499560
LL Group # 1481965
Account # 11997

Project Name: 96817

Collected: 06/13/2014 08:52 by AB

Submitted: 06/14/2014 10:10
Reported: 06/25/2014 12:22

CRA
Suite A
5900 Hollis Street
Emeryville CA 94608

C3030

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.005	1.03
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.005	1.03
10237	Tetrachloroethene	127-18-4	N.D.	0.001	0.005	1.03
10237	Trichloroethene	79-01-6	N.D.	0.001	0.005	1.03
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	1.03

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	A141712AA	06/21/2014 08:42	Stephanie A Selis	1.03
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201416534815	06/14/2014 19:56	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201416534815	06/14/2014 19:56	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201416534815	06/14/2014 19:53	Mitchell R Washel	n.a.

*=This limit was used in the evaluation of the final result

Sample Description: **CPT-30-S-35-140613 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-30

LL Sample # SW 7499561
LL Group # 1481965
Account # 11997

Project Name: 96817

Collected: 06/13/2014 09:09 by AB

Submitted: 06/14/2014 10:10
Reported: 06/25/2014 12:22

CRA
Suite A
5900 Hollis Street
Emeryville CA 94608

C3035

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.005	0.99
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.005	0.99
10237	Tetrachloroethene	127-18-4	N.D.	0.001	0.005	0.99
10237	Trichloroethene	79-01-6	N.D.	0.001	0.005	0.99
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	0.99

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	A141712AA	06/21/2014 09:07	Stephanie A Selis	0.99
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201416534815	06/14/2014 19:57	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201416534815	06/14/2014 19:57	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201416534815	06/14/2014 19:55	Mitchell R Washel	n.a.

*=This limit was used in the evaluation of the final result

eurofins
Lancaster Laboratories Environmental
2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

Sample Description: **CPT-30-S-45-140613 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-30

LL Sample # SW 7499562
LL Group # 1481965
Account # 11997

Project Name: 96817

Collected: 06/13/2014 09:50 by AB

Submitted: 06/14/2014 10:10
Reported: 06/25/2014 12:22

CRA
Suite A
5900 Hollis Street
Emeryville CA 94608

C3045

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.005	1
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.005	1
10237	Tetrachloroethene	127-18-4	N.D.	0.001	0.005	1
10237	Trichloroethene	79-01-6	N.D.	0.001	0.005	1
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	1

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	A141712AA	06/21/2014 09:31	Stephanie A Selis	1
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201416534815	06/14/2014 20:11	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201416534815	06/14/2014 20:11	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201416534815	06/14/2014 19:58	Mitchell R Washel	n.a.

*=This limit was used in the evaluation of the final result

eurofins
Lancaster Laboratories Environmental
2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

Sample Description: **CPT-30-S-40-140613 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-30

LL Sample # SW 7499563
LL Group # 1481965
Account # 11997

Project Name: 96817

Collected: 06/13/2014 09:32 by AB

Submitted: 06/14/2014 10:10
Reported: 06/25/2014 12:22

CRA
Suite A
5900 Hollis Street
Emeryville CA 94608

C3040

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.005	1
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.005	1
10237	Tetrachloroethene	127-18-4	N.D.	0.001	0.005	1
10237	Trichloroethene	79-01-6	N.D.	0.001	0.005	1
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	1

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	A141712AA	06/21/2014 09:55	Stephanie A Selis	1
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201416534815	06/14/2014 20:11	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201416534815	06/14/2014 20:11	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201416534815	06/14/2014 20:00	Mitchell R Washel	n.a.

*=This limit was used in the evaluation of the final result

eurofins
Lancaster Laboratories Environmental
2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

Sample Description: **CPT-30-S-50-140613 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-30

LL Sample # SW 7499564
LL Group # 1481965
Account # 11997

Project Name: 96817

Collected: 06/13/2014 10:20 by AB

Submitted: 06/14/2014 10:10
Reported: 06/25/2014 12:22

CRA
Suite A
5900 Hollis Street
Emeryville CA 94608

C3050

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.005	0.98
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.005	0.98
10237	Tetrachloroethene	127-18-4	N.D.	0.001	0.005	0.98
10237	Trichloroethene	79-01-6	N.D.	0.001	0.005	0.98
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	0.98

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	A141712AA	06/21/2014 10:19	Stephanie A Selis	0.98
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201416534815	06/14/2014 20:11	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201416534815	06/14/2014 20:11	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201416534815	06/14/2014 20:02	Mitchell R Washel	n.a.

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: CRA Group Number: 1481965
Reported: 06/25/14 at 12:22 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: A141701AA	Sample number(s): 7499531,7499542-7499543,7499546-7499553								
cis-1,2-Dichloroethene	N.D.	0.001	0.005	mg/kg	104	103	80-120	0	30
trans-1,2-Dichloroethene	N.D.	0.001	0.005	mg/kg	109	104	79-120	5	30
Tetrachloroethene	N.D.	0.001	0.005	mg/kg	108	102	78-120	6	30
Trichloroethene	N.D.	0.001	0.005	mg/kg	106	103	80-120	3	30
Vinyl Chloride	N.D.	0.001	0.005	mg/kg	79	83	59-120	5	30
Batch number: A141712AA	Sample number(s): 7499544-7499545,7499554-7499564								
cis-1,2-Dichloroethene	N.D.	0.001	0.005	mg/kg	104	110	80-120	6	30
trans-1,2-Dichloroethene	N.D.	0.001	0.005	mg/kg	104	112	79-120	7	30
Tetrachloroethene	N.D.	0.001	0.005	mg/kg	115	116	78-120	0	30
Trichloroethene	N.D.	0.001	0.005	mg/kg	105	112	80-120	7	30
Vinyl Chloride	N.D.	0.001	0.005	mg/kg	96	107	59-120	10	30
Batch number: B141672AA	Sample number(s): 7499532-7499541								
cis-1,2-Dichloroethene	N.D.	0.001	0.005	mg/kg	94	91	80-120	3	30
trans-1,2-Dichloroethene	N.D.	0.001	0.005	mg/kg	112	103	79-120	9	30
Tetrachloroethene	N.D.	0.001	0.005	mg/kg	96	96	78-120	0	30
Trichloroethene	N.D.	0.001	0.005	mg/kg	93	92	80-120	1	30
Vinyl Chloride	N.D.	0.001	0.005	mg/kg	92	91	59-120	2	30
Batch number: Q141711AA	Sample number(s): 7499543,7499546								
cis-1,2-Dichloroethene	N.D.	0.050	0.25	mg/kg	106	112	80-120	6	30
Tetrachloroethene	N.D.	0.050	0.25	mg/kg	111	115	78-120	4	30
Trichloroethene	N.D.	0.050	0.25	mg/kg	109	115	80-120	6	30
Batch number: R141751AA	Sample number(s): 7499544-7499545								
Tetrachloroethene	N.D.	0.050	0.25	mg/kg	91	102	78-120	12	30

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: A141701AA	Sample number(s): 7499531,7499542-7499543,7499546-7499553 UNSPK: 7499550								
cis-1,2-Dichloroethene	115	119	67-135	2	30				
trans-1,2-Dichloroethene	128	120	64-144	7	30				
Tetrachloroethene	131	134	42-149	2	30				
Trichloroethene	103	127	53-144	16	30				

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CRA
Reported: 06/25/14 at 12:22 PM

Group Number: 1481965

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Vinyl Chloride	122	125	50-154	2	30				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 8260 Ext. Soil Master w/GRO
Batch number: A141701AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7499531	105	109	100	92
7499542	105	104	100	93
7499543	103	101	100	96
7499546	105	104	99	90
7499547	107	104	100	90
7499548	107	104	100	89
7499549	107	106	99	91
7499550	107	107	99	91
7499551	108	106	99	89
7499552	107	106	99	91
7499553	110	110	99	91
Blank	102	107	99	95
LCS	101	101	102	100
LCSD	104	108	101	100
MS	101	103	103	97
MSD	102	101	103	97
Limits:	50-141	54-135	52-141	50-131

Analysis Name: 8260 Ext. Soil Master w/GRO
Batch number: A141712AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7499544	110	105	97	94
7499545	114	111	94	89
7499554	105	109	99	92
7499555	108	103	103	81
7499556	106	104	100	92
7499557	110	107	98	90
7499558	110	105	98	89
7499559	111	107	97	89
7499560	111	107	98	91
7499561	112	108	97	90
7499562	113	112	97	91
7499563	113	109	94	91
7499564	112	111	97	91
Blank	108	107	97	93
LCS	104	106	100	99

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CRA
Reported: 06/25/14 at 12:22 PM

Group Number: 1481965

Surrogate Quality Control

LCSD	103	104	101	100
Limits:	50-141	54-135	52-141	50-131

Analysis Name: 8260 Ext. Soil Master w/GRO
Batch number: B141672AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7499532	111	101	96	88
7499533	113	106	97	93
7499534	112	102	97	88
7499535	111	103	96	89
7499536	113	114	96	93
7499537	113	103	98	90
7499538	112	110	96	91
7499539	113	105	95	91
7499540	114	109	96	91
7499541	112	104	97	92
Blank	110	108	97	93
LCS	106	107	99	100
LCSD	106	107	98	100
Limits:	50-141	54-135	52-141	50-131

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Chevron California Region Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories

061314-01

Acct. # 11997 Group # 14819605 Sample # 7499531-64

For Lancaster Laboratories use only

Instructions on reverse side correspond with circled numbers.

SCR #: _____

1 Client Information

Facility #: CHEVRON 96817

WBS:

Site Address: 1705 CONTRA COSTA BLVD. PLEASANT HILL, CA

Chevron PM: BRIAN WAITE

Lead Consultant: CRA

Consultant/Office: EMERYVILLE

Consultant Project Mgr.: CELINA HERNANDEZ

Consultant Phone #: 510-420-3340

Sampler: ALYSSA BEERLING

4 Matrix

☐ Sediment ☐ Ground ☐ Surface ☐ Potable ☐ NPDES ☐ Air ☐ Oil ☒ Soil ☐ Water

5 Analyses Requested

☐ BTEX + MTBE 8021 ☐ 8260 ☐ TPH GRO 8015 ☐ 8260 ☐ TPH 8015 MOD DRO ☐ Silica Gel Cleanup ☐ 8260 Full Scan ☐ Oxygenates ☐ Total Lead Method ☐ Dissolved Lead Method ☐ 8260 see Remarks

Total Number of Containers

☐ Results in Dry Weight
☐ J value reporting needed
☐ Must meet lowest detection limits possible for 8260 compounds
☐ 8021 MTBE Confirmation
☐ Confirm highest hit by 8260
☐ Confirm all hits by 8260
☐ Run _____ oxy's on highest hit
☐ Run _____ oxy's on all hits

2 Sample Identification	Collected Date	Collected Time	3 Grab	Composite	Soil	Water	Oil	Total Number of Containers	BTEX + MTBE 8021	TPH GRO 8015	TPH 8015 MOD DRO	Silica Gel Cleanup	8260 Full Scan	Oxygenates	Total Lead	Dissolved Lead	8260 see Remarks
CPT-28-5	6/12/14	805	X		X												X
CPT-27-10		812															
CPT-27-15		815															
CPT-27-20		825															
CPT-27-21		830															
CPT-27-23		915															
CPT-27-25		924															
CPT-27-30		930															
CPT-27-35		942															
CPT-27-45		1007															
CPT-27-47		1020															
CPT-27-50		1037															

6 Remarks

PCE, TCE, cis-1,2 DCE, trans-1,2 DCE, VC

Send Results to: bweiwen@craworld.com AND chernandez@craworld.com

7 Turnaround Time Requested (TAT) (please circle)

Standard | 5 day | 4 day | 72 hour | 48 hour | 24 hour

8 Data Package Options (please circle if required)

Type I - Full | Type VI (Raw Data)

9

Relinquished by	Date	Time	Received by	Date	Time
Alyssa Beerling	6/12/14	1700	CRA Secure location	6/12/14	1700
Alyssa Beerling	6/13/14	1400	Kay Howe	6/13/14	1415
Relinquished by Commerical Carrier: UPS Kay Howe FedEx ____ Other ____	6/13/14	1500	Received by	6/14/14	1010

Temperature Upon Receipt 0.5 °C

Custody Seals Intact? Yes No

Chevron California Region Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories

0603/14-01

Acct. # 11997 Group # 1481965 Sample # 7499531-64

For Lancaster Laboratories use only

Instructions on reverse side correspond with circled numbers.

1 Client Information

Facility # CHEVRON 96817 WBS

Site Address 1705 CONTRA COSTA BLVD. PLEASANT HILL, CA

Chevron PM BRIAN WAITE Lead Consultant CRA

Consultant/Office EMERYVILLE

Consultant Project Mgr. CELINA HERNANDEZ

Consultant Phone # 510-420-3340

Sampler A. BEERLING

SCR #: _____

- ☐ Results in Dry Weight
- ☐ J value reporting needed
- ☐ Must meet lowest detection limits possible for 8260 compounds
- ☐ 8021 MTBE Confirmation
- ☐ Confirm highest hit by 8260
- ☐ Confirm all hits by 8260
- ☐ Run _____ oxy's on highest hit
- ☐ Run _____ oxy's on all hits

2 Sample Identification	Collected Date	Collected Time	3 Grab	Composite	4 Matrix: Soil	Water	Sediment	Ground	Potable	Surface	NPDES	Oil	Air	Total Number of Containers	5 Analyses Requested: BTEX + MTBE 8021	8260	TPH GRO 8015	8260	TPH 8015 MOD DRO	Silica Gel Cleanup	8260 Full Scan	Oxygenates	Total Lead	Method	Dissolved Lead	Method	8260 See Remarks			
CPT-31-10	6/12/14	1249	X		X																						X			
CPT-31-12		1255																												
CPT-31-14		1300																												
CPT-31-16		1310																												
CPT-31-21		1320																												
CPT-31-26		1329																												
CPT-31-31		1341																												
CPT-31-35		1352																												
CPT-31-~~40~~ 45		1417																												
CPT-31-50		1430																												

6 Remarks

PCE, TCE, cis-1,2 DCE, trans-1,2 DCE, VC

send results to: bwalker@crawford.com AND chernandez@crawford.com

7 Turnaround Time Requested (TAT) (please circle)

Standard | 5 day | 4 day | 72 hour | 48 hour | 24 hour

8 Data Package Options (please circle if required)

Type I - Full | Type VI (Raw Data)

Relinquished by	Date	Time	Received by	Date	Time
Alissa Beerling	6/12/14	1700	CRA Secure Location	6/12/14	1700
Alissa Beerling	6/13/14	1400	Kay Howe	6/13/14	1415
Relinquished by Commerical Carrier: UPS Kay Howe FedEx 6/13/14 Other 1500			Received by	6/14/14	1010

Temperature Upon Receipt 0.5 °C

Custody Seals Intact? Yes No

The white copy should accompany samples to Lancaster Laboratories. The yellow copy should be retained by the client.

Chevron California Region Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories

061314-01

Acct. # 11997 Group # 1481965 Sample # 7499531-64

For Lancaster Laboratories use only

Instructions on reverse side correspond with circled numbers.

SCR #: _____

1 Client Information

Facility # CHEVRON 96817 WBS

Site Address 1705 CONTRA COSTA BLVD. PLEASANT HILL, CA

Chevron PM BRIAN WAITE Lead Consultant CRA

Consultant/Office EMERYVILLE

Consultant Project Mgr. CELINA HERNANDEZ

Consultant Phone # 510-420-3340

Sampler A. BEERLING

4 Matrix

5 Analyses Requested

2 Sample Identification	Collected Date	Collected Time	3 Grab	Composite	Soil (Sediment)	Water (Ground / Potable / Surface / NPDES)	Oil (Air)	Total Number of Containers	BTEX + MTBE 8021 / 8260	TPH GRO 8015 / 8260	TPH 8015 MOD DRO	Silica Gel Cleanup	8260 Full Scan	Oxygenates	Total Lead	Dissolved Lead	8260 See Remarks			
CPT-22-5	6/12/14	930	X		X												X			
CPT-20-5		1030	↓		↓												↓			
CPT-21-5		1300	↓		↓												↓			

Method _____ Method _____

- ☐ Results in Dry Weight
- ☐ J value reporting needed
- ☐ Must meet lowest detection limits possible for 8260 compounds
- ☐ 8021 MTBE Confirmation
- ☐ Confirm highest hit by 8260
- ☐ Confirm all hits by 8260
- ☐ Run _____ oxy's on highest hit
- ☐ Run _____ oxy's on all hits

6 Remarks

PCE, TCE, Cis-1,2 DCE, trans-1,2 DCE, VC

Send Results to:
bwilken@crawborld.com
AND
chernandez@crawborld.com

7 Turnaround Time Requested (TAT) (please circle)

Standard 5 day 4 day

72 hour 48 hour 24 hour

8 Data Package Options (please circle if required)

Type I - Full Type VI (Raw Data)

9

Relinquished by	Date	Time	Received by	Date	Time
Aysen Beerling	6/12/14	1700	CRA Secure Location	6/12/14	1700
Aysen Beerling	6/13/14	1400	Kay Howe	6/13/14	1415
Relinquished by Commerical Carrier: X UPS Kay Howe FedEx 6/13/14 Other 1500			Received by	6/14/14	1010

Temperature Upon Receipt 0.5 °C

Custody Seals Intact? Yes No

Chevron California Region Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories

061314-01

Acct. # 11997 Group # 1481965 Sample # 7499531-64

For Lancaster Laboratories use only

Instructions on reverse side correspond with circled numbers.

SCR #: _____

1 Client Information

Facility # Chevron 96817

WBS

Site Address: 1705 Contra Costa Blvd. Pleasant Hill, CA

Chevron PM: Celina Hernandez

Lead Consultant: CRA

Consultant/Office: Emeryville

Consultant Project Mgr.: Brian Waite

Consultant Phone #: 510-420-3340

Sampler: A. Beerling

4 Matrix

☐ Sediment ☐ Ground ☐ Surface ☐ Potable ☐ NPDES ☐ Air ☐ Oil ☒ Soil ☐ Water

5 Analyses Requested

Total Number of Containers

BTEX + MTBE 8021 ☐ 8260 ☐ | TPH GRO 8015 ☐ 8260 ☐ | TPH 8015 MOD DRO | Silica Gel Cleanup | 8260 Full Scan | Oxygenates ____ | Total Lead Method ____ | Dissolved Lead Method ____ | 8260 See Remarks

2 Sample Identification / 3 Grab / Composite

Sample Identification	Collected Date	Collected Time	Grab	Composite	Soil	Total Number of Containers	8260 See Remarks
CPT-30-10	6/13/14	810	X		X		X
CPT-30-15		818					
CPT-30-20		828					
CPT-30-25		838					
CPT-30-30		852					
CPT-30-35		909					
CPT-30-45		0950					
CPT-30-40		0932					
CPT-30-50		1020					

☐ Results in Dry Weight
☐ J value reporting needed
☐ Must meet lowest detection limits possible for 8260 compounds
☐ 8021 MTBE Confirmation
☐ Confirm highest hit by 8260
☐ Confirm all hits by 8260
☐ Run _____ oxy's on highest hit
☐ Run _____ oxy's on all hits

6 Remarks

PCE, TCE, cis-1,2 DCE, trans-1,2 DCE, VC

Send Results to:
bwilken@craworld.com
AND
chernandez@craworld.com

7 Turnaround Time Requested (TAT) (please circle)

Standard | 5 day | 4 day | 72 hour | 48 hour | 24 hour

8 Data Package Options (please circle if required)

Type I - Full | Type VI (Raw Data)

Relinquished by	Date	Time	Received by	Date	Time
Alyssa Beerling	6/13/14	1400	Kay Howe	6/13/14	1415
Kay Howe	6/13/14	1500			
				6/14/14	1010

Relinquished by Commerical Carrier: UPS ✓ FedEx ____ Other ____

Temperature Upon Receipt 0.2 °C

Custody Seals Intact? Yes No

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Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
µg	microgram(s)	**mg**	milligram(s)
mL	milliliter(s)	**L**	liter(s)
m3	cubic meter(s)	**µL**	microliter(s)
		pg/L	picogram/liter

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

Data Qualifiers:

C – result confirmed by reanalysis.

J - estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
A	TIC is a possible aldol-condensation product	**B**	Value is <CRDL, but ≥IDL
B	Analyte was also detected in the blank	**E**	Estimated due to interference
C	Pesticide result confirmed by GC/MS	**M**	Duplicate injection precision not met
D	Compound quantitated on a diluted sample	**N**	Spike sample not within control limits
E	Concentration exceeds the calibration range of the instrument	**S**	Method of standard additions (MSA) used for calculation
N	Presumptive evidence of a compound (TICs only)	**U**	Compound was not detected
P	Concentration difference between primary and confirmation columns >25%	**W**	Post digestion spike out of control limits
U	Compound was not detected	*****	Duplicate analysis not within control limits
X,Y,Z	Defined in case narrative	**+**	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

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ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

CRA
Suite A
5900 Hollis Street
Emeryville CA 94608

June 27, 2014

Project: 96817

Submittal Date: 06/19/2014
Group Number: 1483132
PO Number: 96817
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LL) #
CPT-21-S-10.5-140616 Grab Soil	7504819
CPT-21-S-15-140616 Grab Soil	7504820
CPT-21-S-19.5-140616 Grab Soil	7504821
CPT-21-S-23.5-140616 Grab Soil	7504822
CPT-21-S-27.5-140616 Grab Soil	7504823
CPT-21-S-29-140616 Grab Soil	7504824
CPT-21-S-35.5-140616 Grab Soil	7504825
CPT-21-S-36-140616 Grab Soil	7504826
CPT-21-S-40.5-140616 Grab Soil	7504827
CPT-21-S-43.5-140616 Grab Soil	7504828
CPT-21-S-46.5-140616 Grab Soil	7504829
CPT-21-S-51.5-140616 Grab Soil	7504830
CPT-28-S-10.5-140616 Grab Soil	7504831
CPT-28-S-15.5-140616 Grab Soil	7504832
CPT-28-S-19.5-140616 Grab Soil	7504833
CPT-28-S-23.5-140616 Grab Soil	7504834
CPT-28-S-27.5-140616 Grab Soil	7504835
CPT-28-S-31.5-140616 Grab Soil	7504836
CPT-28-S-35.5-140616 Grab Soil	7504837
CPT-28-S-39.5-140616 Grab Soil	7504838
CPT-28-S-43.5-140616 Grab Soil	7504839
CPT-28-S-47.5-140616 Grab Soil	7504840
CPT-28-S-50.5-140616 Grab Soil	7504841
SB-22-S-9.5-140617 Grab Soil	7504842
SB-22-S-14.5-140617 Grab Soil	7504843
SB-22-S-19.5-140617 Grab Soil	7504844
SB-22-S-24.5-140617 Grab Soil	7504845
SB-22-S-29-140617 Grab Soil	7504846
SB-22-S-34.5-140617 Grab Soil	7504847
SB-22-S-39.5-140617 Grab Soil	7504848
SB-22-S-49.5-140617 Grab Soil	7504849
SB-22-S-45-140617 Grab Soil	7504850

SB-22-S-44-140617 Grab Soil	7504851
SB-34-S-5-140617 Grab Soil	7504852
SB-34-S-9.5-140617 Grab Soil	7504853
SB-34-S-14.5-140617 Grab Soil	7504854
SB-34-S-19.5-140617 Grab Soil	7504855
SB-34-S-24.5-140617 Grab Soil	7504856
SB-34-S-29.5-140617 Grab Soil	7504857
SB-34-S-34.5-140617 Grab Soil	7504858
SB-34-S-39.5-140617 Grab Soil	7504859
SB-34-S-44.5-140617 Grab Soil	7504860
SB-34-S-49.5-140617 Grab Soil	7504861
CPT-29-S-9.5-140618 Grab Soil	7504862
CPT-29-S-14.5-140618 Grab Soil	7504863
CPT-29-S-19.5-140618 Grab Soil	7504864
CPT-29-S-24.5-140618 Grab Soil	7504865
CPT-29-S-29.5-140618 Grab Soil	7504866
CPT-29-S-34.5-140618 Grab Soil	7504867
CPT-29-S-39.5-140618 Grab Soil	7504868
CPT-29-S-44.5-140618 Grab Soil	7504869
CPT-29-S-49.5-140618 Grab Soil	7504870

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	Chevron c/o CRA	Attn: Brandon Wilken
ELECTRONIC COPY TO	CRA	Attn: Celina Hernandez

Respectfully Submitted,

Natalie R. Luciano
Senior Specialist

(717) 556-7258

eurofins
Lancaster Laboratories Environmental
2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

Sample Description: **CPT-21-S-10.5-140616 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-21

LL Sample # SW 7504819
LL Group # 1483132
Account # 11997

Project Name: 96817

Collected: 06/16/2014 08:21 by CH

Submitted: 06/19/2014 09:30
Reported: 06/27/2014 19:28

CRA
Suite A
5900 Hollis Street
Emeryville CA 94608

C2110

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.005	0.97
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.005	0.97
10237	Tetrachloroethene	127-18-4	N.D.	0.001	0.005	0.97
10237	Trichloroethene	79-01-6	N.D.	0.001	0.005	0.97
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	0.97

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	B141762AA	06/25/2014 21:54	Andrea E Lando	0.97
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201417034847	06/19/2014 15:41	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201417034847	06/19/2014 15:41	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201417034847	06/19/2014 15:02	Mitchell R Washel	n.a.

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **CPT-21-S-15-140616 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-21

LL Sample # SW 7504820
LL Group # 1483132
Account # 11997

Project Name: 96817

Collected: 06/16/2014 08:26 by CH

Submitted: 06/19/2014 09:30
Reported: 06/27/2014 19:28

CRA
Suite A
5900 Hollis Street
Emeryville CA 94608

C2115

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.005	1.02
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.005	1.02
10237	Tetrachloroethene	127-18-4	N.D.	0.001	0.005	1.02
10237	Trichloroethene	79-01-6	N.D.	0.001	0.005	1.02
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	1.02

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	B141762AA	06/25/2014 22:16	Andrea E Lando	1.02
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201417034847	06/19/2014 15:41	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201417034847	06/19/2014 15:41	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201417034847	06/19/2014 15:04	Mitchell R Washel	n.a.

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **CPT-21-S-19.5-140616 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-21

LL Sample # SW 7504821
LL Group # 1483132
Account # 11997

Project Name: 96817

Collected: 06/16/2014 08:32 by CH

Submitted: 06/19/2014 09:30
Reported: 06/27/2014 19:28

CRA
Suite A
5900 Hollis Street
Emeryville CA 94608

C2119

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.005	0.99
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.005	0.99
10237	Tetrachloroethene	127-18-4	N.D.	0.001	0.005	0.99
10237	Trichloroethene	79-01-6	N.D.	0.001	0.005	0.99
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	0.99

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	B141762AA	06/25/2014 22:38	Andrea E Lando	0.99
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201417034847	06/19/2014 15:41	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201417034847	06/19/2014 15:41	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201417034847	06/19/2014 15:07	Mitchell R Washel	n.a.

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **CPT-21-S-23.5-140616 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-21

LL Sample # SW 7504822
LL Group # 1483132
Account # 11997

Project Name: 96817

Collected: 06/16/2014 08:43 by CH

Submitted: 06/19/2014 09:30
Reported: 06/27/2014 19:28

CRA
Suite A
5900 Hollis Street
Emeryville CA 94608

C2123

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.005	1.06
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.005	1.06
10237	Tetrachloroethene	127-18-4	N.D.	0.001	0.005	1.06
10237	Trichloroethene	79-01-6	N.D.	0.001	0.005	1.06
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	1.06

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	B141762AA	06/25/2014 23:00	Andrea E Lando	1.06
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201417034847	06/19/2014 15:41	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201417034847	06/19/2014 15:41	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201417034847	06/19/2014 15:08	Mitchell R Washel	n.a.

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **CPT-21-S-27.5-140616 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-21

LL Sample # SW 7504823
LL Group # 1483132
Account # 11997

Project Name: 96817

Collected: 06/16/2014 08:58 by CH

Submitted: 06/19/2014 09:30
Reported: 06/27/2014 19:28

CRA
Suite A
5900 Hollis Street
Emeryville CA 94608

C2127

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.005	1.01
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.005	1.01
10237	Tetrachloroethene	127-18-4	N.D.	0.001	0.005	1.01
10237	Trichloroethene	79-01-6	N.D.	0.001	0.005	1.01
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	1.01

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	B141762AA	06/25/2014 23:23	Andrea E Lando	1.01
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201417034847	06/19/2014 15:41	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201417034847	06/19/2014 15:41	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201417034847	06/19/2014 15:11	Mitchell R Washel	n.a.

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **CPT-21-S-29-140616 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-21

LL Sample # SW 7504824
LL Group # 1483132
Account # 11997

Project Name: 96817

Collected: 06/16/2014 09:10 by CH

Submitted: 06/19/2014 09:30
Reported: 06/27/2014 19:28

CRA
Suite A
5900 Hollis Street
Emeryville CA 94608

C2129

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.005	0.98
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.005	0.98
10237	Tetrachloroethene	127-18-4	N.D.	0.001	0.005	0.98
10237	Trichloroethene	79-01-6	N.D.	0.001	0.005	0.98
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	0.98

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	B141762AA	06/25/2014 23:45	Andrea E Lando	0.98
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201417034847	06/19/2014 15:41	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201417034847	06/19/2014 15:41	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201417034847	06/19/2014 15:13	Mitchell R Washel	n.a.

*=This limit was used in the evaluation of the final result

eurofins
Lancaster Laboratories Environmental
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Analysis Report

Sample Description: **CPT-21-S-35.5-140616 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-21

LL Sample # SW 7504825
LL Group # 1483132
Account # 11997

Project Name: 96817

Collected: 06/16/2014 09:19 by CH

Submitted: 06/19/2014 09:30
Reported: 06/27/2014 19:28

CRA
Suite A
5900 Hollis Street
Emeryville CA 94608

C2135

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.005	0.96
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.005	0.96
10237	Tetrachloroethene	127-18-4	N.D.	0.001	0.005	0.96
10237	Trichloroethene	79-01-6	N.D.	0.001	0.005	0.96
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	0.96

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	B141762AA	06/26/2014 00:07	Andrea E Lando	0.96
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201417034847	06/19/2014 15:41	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201417034847	06/19/2014 15:41	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201417034847	06/19/2014 15:20	Mitchell R Washel	n.a.

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Analysis Report

Sample Description: **CPT-21-S-36-140616 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-21

LL Sample # SW 7504826
LL Group # 1483132
Account # 11997

Project Name: 96817

Collected: 06/16/2014 09:38 by CH

Submitted: 06/19/2014 09:30
Reported: 06/27/2014 19:28

CRA
Suite A
5900 Hollis Street
Emeryville CA 94608

C2136

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.005	1.06
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.005	1.06
10237	Tetrachloroethene	127-18-4	N.D.	0.001	0.005	1.06
10237	Trichloroethene	79-01-6	N.D.	0.001	0.005	1.06
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	1.06

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	B141762AA	06/26/2014 00:30	Andrea E Lando	1.06
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201417034847	06/19/2014 15:41	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201417034847	06/19/2014 15:41	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201417034847	06/19/2014 15:23	Mitchell R Washel	n.a.

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Analysis Report

Sample Description: **CPT-21-S-40.5-140616 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-21

LL Sample # SW 7504827
LL Group # 1483132
Account # 11997

Project Name: 96817

Collected: 06/16/2014 09:58 by CH

Submitted: 06/19/2014 09:30
Reported: 06/27/2014 19:28

CRA
Suite A
5900 Hollis Street
Emeryville CA 94608

C2140

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.0009	0.005	0.94
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.0009	0.005	0.94
10237	Tetrachloroethene	127-18-4	N.D.	0.0009	0.005	0.94
10237	Trichloroethene	79-01-6	N.D.	0.0009	0.005	0.94
10237	Vinyl Chloride	75-01-4	N.D.	0.0009	0.005	0.94

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	B141762AA	06/26/2014 00:52	Andrea E Lando	0.94
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201417034847	06/19/2014 15:41	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201417034847	06/19/2014 15:41	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201417034847	06/19/2014 15:25	Mitchell R Washel	n.a.

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Analysis Report

Sample Description: **CPT-21-S-43.5-140616 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-21

LL Sample # SW 7504828
LL Group # 1483132
Account # 11997

Project Name: 96817

Collected: 06/16/2014 10:00 by CH

Submitted: 06/19/2014 09:30
Reported: 06/27/2014 19:28

CRA
Suite A
5900 Hollis Street
Emeryville CA 94608

C2143

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.005	1
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.005	1
10237	Tetrachloroethene	127-18-4	N.D.	0.001	0.005	1
10237	Trichloroethene	79-01-6	N.D.	0.001	0.005	1
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	1

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	B141762AA	06/26/2014 01:14	Andrea E Lando	1
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201417034847	06/19/2014 15:41	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201417034847	06/19/2014 15:41	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201417034847	06/19/2014 15:28	Mitchell R Washel	n.a.

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Analysis Report

Sample Description: **CPT-21-S-46.5-140616 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-21

LL Sample # SW 7504829
LL Group # 1483132
Account # 11997

Project Name: 96817

Collected: 06/16/2014 10:20 by CH

Submitted: 06/19/2014 09:30
Reported: 06/27/2014 19:28

CRA
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5900 Hollis Street
Emeryville CA 94608

C2146

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.005	1.05
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.005	1.05
10237	Tetrachloroethene	127-18-4	N.D.	0.001	0.005	1.05
10237	Trichloroethene	79-01-6	N.D.	0.001	0.005	1.05
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	1.05

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	B141762AA	06/26/2014 01:36	Andrea E Lando	1.05
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201417034847	06/19/2014 15:41	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201417034847	06/19/2014 15:41	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201417034847	06/19/2014 15:30	Mitchell R Washel	n.a.

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Analysis Report

Sample Description: **CPT-21-S-51.5-140616 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-21

LL Sample # SW 7504830
LL Group # 1483132
Account # 11997

Project Name: 96817

Collected: 06/16/2014 10:40 by CH

Submitted: 06/19/2014 09:30
Reported: 06/27/2014 19:28

CRA
Suite A
5900 Hollis Street
Emeryville CA 94608

C2151

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.005	0.99
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.005	0.99
10237	Tetrachloroethene	127-18-4	N.D.	0.001	0.005	0.99
10237	Trichloroethene	79-01-6	N.D.	0.001	0.005	0.99
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	0.99

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	B141762AA	06/26/2014 01:59	Andrea E Lando	0.99
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201417034847	06/19/2014 15:41	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201417034847	06/19/2014 15:42	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201417034847	06/19/2014 15:33	Mitchell R Washel	n.a.

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Analysis Report

Sample Description: **CPT-28-S-10.5-140616 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-28

LL Sample # SW 7504831
LL Group # 1483132
Account # 11997

Project Name: 96817

Collected: 06/16/2014 13:46 by CH

Submitted: 06/19/2014 09:30
Reported: 06/27/2014 19:28

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5900 Hollis Street
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28-10

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.005	1.02
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.005	1.02
10237	Tetrachloroethene	127-18-4	N.D.	0.001	0.005	1.02
10237	Trichloroethene	79-01-6	N.D.	0.001	0.005	1.02
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	1.02

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	B141762AA	06/26/2014 02:21	Andrea E Lando	1.02
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201417034847	06/19/2014 16:22	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201417034847	06/19/2014 16:22	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201417034847	06/19/2014 15:44	Mitchell R Washel	n.a.

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Analysis Report

Sample Description: **CPT-28-S-15.5-140616 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-28

LL Sample # SW 7504832
LL Group # 1483132
Account # 11997

Project Name: 96817

Collected: 06/16/2014 13:54 by CH

Submitted: 06/19/2014 09:30
Reported: 06/27/2014 19:28

CRA
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5900 Hollis Street
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C2815

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.005	0.97
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.005	0.97
10237	Tetrachloroethene	127-18-4	N.D.	0.001	0.005	0.97
10237	Trichloroethene	79-01-6	N.D.	0.001	0.005	0.97
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	0.97

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	A141771AA	06/26/2014 19:35	Andrea E Lando	0.97
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201417034847	06/19/2014 16:22	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201417034847	06/19/2014 16:22	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201417034847	06/19/2014 15:46	Mitchell R Washel	n.a.

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Analysis Report

Sample Description: **CPT-28-S-19.5-140616 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-28

LL Sample # SW 7504833
LL Group # 1483132
Account # 11997

Project Name: 96817

Collected: 06/16/2014 13:57 by CH

Submitted: 06/19/2014 09:30
Reported: 06/27/2014 19:28

CRA
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C2819

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.005	1.07
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.005	1.07
10237	Tetrachloroethene	127-18-4	N.D.	0.001	0.005	1.07
10237	Trichloroethene	79-01-6	N.D.	0.001	0.005	1.07
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	1.07

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	A141771AA	06/26/2014 19:59	Andrea E Lando	1.07
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201417034847	06/19/2014 16:22	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201417034847	06/19/2014 16:22	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201417034847	06/19/2014 15:48	Mitchell R Washel	n.a.

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Analysis Report

Sample Description: **CPT-28-S-23.5-140616 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-28

LL Sample # SW 7504834
LL Group # 1483132
Account # 11997

Project Name: 96817

Collected: 06/16/2014 14:07 by CH

Submitted: 06/19/2014 09:30
Reported: 06/27/2014 19:28

CRA
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Emeryville CA 94608

C2823

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.005	1.03
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.005	1.03
10237	Tetrachloroethene	127-18-4	N.D.	0.001	0.005	1.03
10237	Trichloroethene	79-01-6	N.D.	0.001	0.005	1.03
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	1.03

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	A141771AA	06/26/2014 20:23	Andrea E Lando	1.03
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201417034847	06/19/2014 16:22	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201417034847	06/19/2014 16:22	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201417034847	06/19/2014 15:51	Mitchell R Washel	n.a.

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Analysis Report

Sample Description: **CPT-28-S-27.5-140616 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-28

LL Sample # SW 7504835
LL Group # 1483132
Account # 11997

Project Name: 96817

Collected: 06/16/2014 14:19 by CH

Submitted: 06/19/2014 09:30
Reported: 06/27/2014 19:28

CRA
Suite A
5900 Hollis Street
Emeryville CA 94608

C2827

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.005	0.97
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.005	0.97
10237	Tetrachloroethene	127-18-4	N.D.	0.001	0.005	0.97
10237	Trichloroethene	79-01-6	N.D.	0.001	0.005	0.97
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	0.97

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	A141771AA	06/26/2014 20:48	Andrea E Lando	0.97
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201417034847	06/19/2014 16:22	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201417034847	06/19/2014 16:22	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201417034847	06/19/2014 15:53	Mitchell R Washel	n.a.

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Analysis Report

Sample Description: CPT-28-S-31.5-140616 Grab Soil
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-28

LL Sample # SW 7504836
LL Group # 1483132
Account # 11997

Project Name: 96817

Collected: 06/16/2014 14:34 by CH

Submitted: 06/19/2014 09:30
Reported: 06/27/2014 19:28

CRA
Suite A
5900 Hollis Street
Emeryville CA 94608

C2831

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.005	0.97
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.005	0.97
10237	Tetrachloroethene	127-18-4	N.D.	0.001	0.005	0.97
10237	Trichloroethene	79-01-6	N.D.	0.001	0.005	0.97
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	0.97

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	A141771AA	06/26/2014 21:12	Andrea E Lando	0.97
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201417034847	06/19/2014 16:22	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201417034847	06/19/2014 16:22	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201417034847	06/19/2014 15:56	Mitchell R Washel	n.a.

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Analysis Report

Sample Description: CPT-28-S-35.5-140616 Grab Soil
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-28

LL Sample # SW 7504837
LL Group # 1483132
Account # 11997

Project Name: 96817

Collected: 06/16/2014 14:50 by CH

Submitted: 06/19/2014 09:30
Reported: 06/27/2014 19:28

CRA
Suite A
5900 Hollis Street
Emeryville CA 94608

C2835

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.005	0.98
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.005	0.98
10237	Tetrachloroethene	127-18-4	N.D.	0.001	0.005	0.98
10237	Trichloroethene	79-01-6	N.D.	0.001	0.005	0.98
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	0.98

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	A141771AA	06/26/2014 21:36	Andrea E Lando	0.98
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201417034847	06/19/2014 16:22	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201417034847	06/19/2014 16:22	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201417034847	06/19/2014 16:06	Mitchell R Washel	n.a.

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Analysis Report

Sample Description: **CPT-28-S-39.5-140616 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-28

LL Sample # SW 7504838
LL Group # 1483132
Account # 11997

Project Name: 96817

Collected: 06/16/2014 15:07 by CH

Submitted: 06/19/2014 09:30
Reported: 06/27/2014 19:28

CRA
Suite A
5900 Hollis Street
Emeryville CA 94608

C2839

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.005	1.01
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.005	1.01
10237	Tetrachloroethene	127-18-4	N.D.	0.001	0.005	1.01
10237	Trichloroethene	79-01-6	N.D.	0.001	0.005	1.01
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	1.01

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	A141771AA	06/26/2014 22:01	Andrea E Lando	1.01
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201417034847	06/19/2014 16:22	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201417034847	06/19/2014 16:22	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201417034847	06/19/2014 16:07	Mitchell R Washel	n.a.

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Analysis Report

Sample Description: **CPT-28-S-43.5-140616 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-28

LL Sample # SW 7504839
LL Group # 1483132
Account # 11997

Project Name: 96817

Collected: 06/16/2014 15:18 by CH

Submitted: 06/19/2014 09:30
Reported: 06/27/2014 19:28

CRA
Suite A
5900 Hollis Street
Emeryville CA 94608

C2843

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.005	0.99
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.005	0.99
10237	Tetrachloroethene	127-18-4	N.D.	0.001	0.005	0.99
10237	Trichloroethene	79-01-6	N.D.	0.001	0.005	0.99
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	0.99

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	A141771AA	06/26/2014 22:25	Andrea E Lando	0.99
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201417034847	06/19/2014 16:22	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201417034847	06/19/2014 16:22	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201417034847	06/19/2014 16:12	Mitchell R Washel	n.a.

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Analysis Report

Sample Description: **CPT-28-S-47.5-140616 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-28

LL Sample # SW 7504840
LL Group # 1483132
Account # 11997

Project Name: 96817

Collected: 06/16/2014 15:37 by CH

Submitted: 06/19/2014 09:30
Reported: 06/27/2014 19:28

CRA
Suite A
5900 Hollis Street
Emeryville CA 94608

C2847

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.005	0.95
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.005	0.95
10237	Tetrachloroethene	127-18-4	N.D.	0.001	0.005	0.95
10237	Trichloroethene	79-01-6	N.D.	0.001	0.005	0.95
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	0.95

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	A141771AA	06/26/2014 22:48	Andrea E Lando	0.95
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201417034847	06/19/2014 16:22	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201417034847	06/19/2014 16:22	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201417034847	06/19/2014 16:14	Mitchell R Washel	n.a.

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Analysis Report

Sample Description: **CPT-28-S-50.5-140616 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-28

LL Sample # SW 7504841
LL Group # 1483132
Account # 11997

Project Name: 96817

Collected: 06/16/2014 16:07 by CH

Submitted: 06/19/2014 09:30
Reported: 06/27/2014 19:28

CRA
Suite A
5900 Hollis Street
Emeryville CA 94608

C2850

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.005	1.08
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.005	1.08
10237	Tetrachloroethene	127-18-4	N.D.	0.001	0.005	1.08
10237	Trichloroethene	79-01-6	N.D.	0.001	0.005	1.08
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	1.08

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	A141771AA	06/26/2014 23:12	Andrea E Lando	1.08
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201417034847	06/19/2014 16:22	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201417034847	06/19/2014 16:22	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201417034847	06/19/2014 16:17	Mitchell R Washel	n.a.

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Sample Description: **SB-22-S-9.5-140617 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 SB-22

LL Sample # SW 7504842
LL Group # 1483132
Account # 11997

Project Name: 96817

Collected: 06/17/2014 08:28 by CH

Submitted: 06/19/2014 09:30
Reported: 06/27/2014 19:28

CRA
Suite A
5900 Hollis Street
Emeryville CA 94608

C2209

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.005	1.05
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.005	1.05
10237	Tetrachloroethene	127-18-4	0.005	0.001	0.005	1.05
10237	Trichloroethene	79-01-6	N.D.	0.001	0.005	1.05
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	1.05

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	A141771AA	06/26/2014 23:36	Andrea E Lando	1.05
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201417034847	06/19/2014 16:22	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201417034847	06/19/2014 16:23	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201417034847	06/19/2014 16:19	Mitchell R Washel	n.a.

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Analysis Report

Sample Description: SB-22-S-14.5-140617 Grab Soil
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 SB-22

LL Sample # SW 7504843
LL Group # 1483132
Account # 11997

Project Name: 96817

Collected: 06/17/2014 08:33 by CH

Submitted: 06/19/2014 09:30
Reported: 06/27/2014 19:28

CRA
Suite A
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C2214

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		mg/kg	mg/kg	mg/kg	
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.005	1.02
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.005	1.02
10237	Tetrachloroethene	127-18-4	N.D.	0.001	0.005	1.02
10237	Trichloroethene	79-01-6	N.D.	0.001	0.005	1.02
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	1.02

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	A141771AA	06/26/2014 18:24	Andrea E Lando	1.02
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201417034847	06/19/2014 17:16	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201417034847	06/19/2014 17:15	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	3	201417034847	06/19/2014 17:16	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	4	201417034847	06/19/2014 17:16	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201417034847	06/19/2014 16:43	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	2	201417034847	06/19/2014 16:43	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	3	201417034847	06/19/2014 16:44	Mitchell R Washel	n.a.

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Analysis Report

Sample Description: **SB-22-S-19.5-140617 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 SB-22

LL Sample # SW 7504844
LL Group # 1483132
Account # 11997

Project Name: 96817

Collected: 06/17/2014 08:47 by CH

Submitted: 06/19/2014 09:30
Reported: 06/27/2014 19:28

CRA
Suite A
5900 Hollis Street
Emeryville CA 94608

C2219

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.005	0.97
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.005	0.97
10237	Tetrachloroethene	127-18-4	N.D.	0.001	0.005	0.97
10237	Trichloroethene	79-01-6	N.D.	0.001	0.005	0.97
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	0.97

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	A141771AA	06/27/2014 00:01	Andrea E Lando	0.97
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201417034847	06/19/2014 17:16	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201417034847	06/19/2014 17:16	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201417034847	06/19/2014 16:46	Mitchell R Washel	n.a.

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Analysis Report

Sample Description: **SB-22-S-24.5-140617 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 SB-22

LL Sample # SW 7504845
LL Group # 1483132
Account # 11997

Project Name: 96817

Collected: 06/17/2014 08:54 by CH

Submitted: 06/19/2014 09:30
Reported: 06/27/2014 19:28

CRA
Suite A
5900 Hollis Street
Emeryville CA 94608

C2224

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.005	1.01
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.005	1.01
10237	Tetrachloroethene	127-18-4	N.D.	0.001	0.005	1.01
10237	Trichloroethene	79-01-6	N.D.	0.001	0.005	1.01
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	1.01

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	A141771AA	06/27/2014 00:26	Andrea E Lando	1.01
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201417034847	06/19/2014 17:16	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201417034847	06/19/2014 17:16	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201417034847	06/19/2014 16:48	Mitchell R Washel	n.a.

*=This limit was used in the evaluation of the final result

Sample Description: **SB-22-S-29-140617 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 SB-22

LL Sample # SW 7504846
LL Group # 1483132
Account # 11997

Project Name: 96817

Collected: 06/17/2014 08:55 by CH

Submitted: 06/19/2014 09:30
Reported: 06/27/2014 19:28

CRA
Suite A
5900 Hollis Street
Emeryville CA 94608

C2229

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.005	1.01
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.005	1.01
10237	Tetrachloroethene	127-18-4	N.D.	0.001	0.005	1.01
10237	Trichloroethene	79-01-6	N.D.	0.001	0.005	1.01
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	1.01

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	A141771AA	06/27/2014 00:50	Andrea E Lando	1.01
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201417034847	06/19/2014 17:16	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201417034847	06/19/2014 17:16	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201417034847	06/19/2014 16:52	Mitchell R Washel	n.a.

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Analysis Report

Sample Description: **SB-22-S-34.5-140617 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 SB-22

LL Sample # SW 7504847
LL Group # 1483132
Account # 11997

Project Name: 96817

Collected: 06/17/2014 09:00 by CH

Submitted: 06/19/2014 09:30
Reported: 06/27/2014 19:28

CRA
Suite A
5900 Hollis Street
Emeryville CA 94608

C2234

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.005	1.01
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.005	1.01
10237	Tetrachloroethene	127-18-4	0.003	0.001	0.005	1.01
10237	Trichloroethene	79-01-6	0.002	0.001	0.005	1.01
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	1.01

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	A141771AA	06/27/2014 01:14	Andrea E Lando	1.01
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201417034847	06/19/2014 17:16	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201417034847	06/19/2014 17:16	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201417034847	06/19/2014 16:54	Mitchell R Washel	n.a.

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Analysis Report

Sample Description: **SB-22-S-39.5-140617 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 SB-22

LL Sample # SW 7504848
LL Group # 1483132
Account # 11997

Project Name: 96817

Collected: 06/17/2014 09:08 by CH

Submitted: 06/19/2014 09:30
Reported: 06/27/2014 19:28

CRA
Suite A
5900 Hollis Street
Emeryville CA 94608

C2239

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.005	0.97
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.005	0.97
10237	Tetrachloroethene	127-18-4	N.D.	0.001	0.005	0.97
10237	Trichloroethene	79-01-6	N.D.	0.001	0.005	0.97
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	0.97

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	A141771AA	06/27/2014 01:38	Andrea E Lando	0.97
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201417034847	06/19/2014 17:16	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201417034847	06/19/2014 17:16	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201417034847	06/19/2014 16:57	Mitchell R Washel	n.a.

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Analysis Report

Sample Description: **SB-22-S-49.5-140617 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 SB-22

LL Sample # SW 7504849
LL Group # 1483132
Account # 11997

Project Name: 96817

Collected: 06/17/2014 09:32 by CH

Submitted: 06/19/2014 09:30
Reported: 06/27/2014 19:28

CRA
Suite A
5900 Hollis Street
Emeryville CA 94608

C2249

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.005	0.96
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.005	0.96
10237	Tetrachloroethene	127-18-4	N.D.	0.001	0.005	0.96
10237	Trichloroethene	79-01-6	N.D.	0.001	0.005	0.96
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	0.96

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	B141771AA	06/26/2014 17:07	Christopher G Torres	0.96
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201417034847	06/19/2014 17:16	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201417034847	06/19/2014 17:16	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201417034847	06/19/2014 16:59	Mitchell R Washel	n.a.

*=This limit was used in the evaluation of the final result

Sample Description: **SB-22-S-45-140617 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 SB-22

LL Sample # SW 7504850
LL Group # 1483132
Account # 11997

Project Name: 96817

Collected: 06/17/2014 09:35 by CH

Submitted: 06/19/2014 09:30
Reported: 06/27/2014 19:28

CRA
Suite A
5900 Hollis Street
Emeryville CA 94608

C2245

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.005	0.99
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.005	0.99
10237	Tetrachloroethene	127-18-4	N.D.	0.001	0.005	0.99
10237	Trichloroethene	79-01-6	N.D.	0.001	0.005	0.99
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	0.99

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	B141771AA	06/26/2014 17:29	Christopher G Torres	0.99
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201417034847	06/19/2014 17:16	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201417034847	06/19/2014 17:16	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201417034847	06/19/2014 17:05	Mitchell R Washel	n.a.

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Analysis Report

Sample Description: **SB-22-S-44-140617 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 SB-22

LL Sample # SW 7504851
LL Group # 1483132
Account # 11997

Project Name: 96817

Collected: 06/17/2014 09:43 by CH

Submitted: 06/19/2014 09:30
Reported: 06/27/2014 19:28

CRA
Suite A
5900 Hollis Street
Emeryville CA 94608

C2244

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.005	0.98
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.005	0.98
10237	Tetrachloroethene	127-18-4	N.D.	0.001	0.005	0.98
10237	Trichloroethene	79-01-6	N.D.	0.001	0.005	0.98
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	0.98

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	B141771AA	06/26/2014 17:52	Christopher G Torres	0.98
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201417034847	06/19/2014 17:16	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201417034847	06/19/2014 17:16	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201417034847	06/19/2014 17:07	Mitchell R Washel	n.a.

*=This limit was used in the evaluation of the final result

Sample Description: **SB-34-S-5-140617 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 SB-34

LL Sample # SW 7504852
LL Group # 1483132
Account # 11997

Project Name: 96817

Collected: 06/17/2014 13:25 by CH

Submitted: 06/19/2014 09:30
Reported: 06/27/2014 19:28

CRA
Suite A
5900 Hollis Street
Emeryville CA 94608

C3405

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.005	0.96
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.005	0.96
10237	Tetrachloroethene	127-18-4	0.003	0.001	0.005	0.96
10237	Trichloroethene	79-01-6	0.005	0.001	0.005	0.96
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	0.96

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	B141771AA	06/26/2014 19:22	Christopher G Torres	0.96
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201417034847	06/19/2014 17:16	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201417034847	06/19/2014 17:16	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201417034847	06/19/2014 17:10	Mitchell R Washel	n.a.

*=This limit was used in the evaluation of the final result

Sample Description: **SB-34-S-9.5-140617 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 SB-34

LL Sample # SW 7504853
LL Group # 1483132
Account # 11997

Project Name: 96817

Collected: 06/17/2014 13:55 by CH

Submitted: 06/19/2014 09:30
Reported: 06/27/2014 19:28

CRA
Suite A
5900 Hollis Street
Emeryville CA 94608

C3409

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.005	1
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.005	1
10237	Tetrachloroethene	127-18-4	0.007	0.001	0.005	1
10237	Trichloroethene	79-01-6	N.D.	0.001	0.005	1
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	1

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	B141771AA	06/26/2014 19:44	Christopher G Torres	1
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201417034847	06/19/2014 17:16	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201417034847	06/19/2014 17:16	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201417034847	06/19/2014 17:12	Mitchell R Washel	n.a.

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Analysis Report

Sample Description: **SB-34-S-14.5-140617 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 SB-34

LL Sample # SW 7504854
LL Group # 1483132
Account # 11997

Project Name: 96817

Collected: 06/17/2014 14:00 by CH

Submitted: 06/19/2014 09:30
Reported: 06/27/2014 19:28

CRA
Suite A
5900 Hollis Street
Emeryville CA 94608

C3414

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.005	1
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.005	1
10237	Tetrachloroethene	127-18-4	N.D.	0.001	0.005	1
10237	Trichloroethene	79-01-6	N.D.	0.001	0.005	1
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	1

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	B141771AA	06/26/2014 20:07	Christopher G Torres	1
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201417034847	06/19/2014 17:57	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201417034847	06/19/2014 17:58	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201417034847	06/19/2014 17:30	Mitchell R Washel	n.a.

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Analysis Report

Sample Description: **SB-34-S-19.5-140617 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 SB-34

LL Sample # SW 7504855
LL Group # 1483132
Account # 11997

Project Name: 96817

Collected: 06/17/2014 14:05 by CH

Submitted: 06/19/2014 09:30
Reported: 06/27/2014 19:28

CRA
Suite A
5900 Hollis Street
Emeryville CA 94608

C3419

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.005	0.95
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.005	0.95
10237	Tetrachloroethene	127-18-4	N.D.	0.001	0.005	0.95
10237	Trichloroethene	79-01-6	N.D.	0.001	0.005	0.95
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	0.95

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	B141771AA	06/26/2014 20:29	Christopher G Torres	0.95
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201417034847	06/19/2014 17:58	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201417034847	06/19/2014 17:58	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201417034847	06/19/2014 17:32	Mitchell R Washel	n.a.

*=This limit was used in the evaluation of the final result

Sample Description: **SB-34-S-24.5-140617 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 SB-34

LL Sample # SW 7504856
LL Group # 1483132
Account # 11997

Project Name: 96817

Collected: 06/17/2014 14:12 by CH

Submitted: 06/19/2014 09:30
Reported: 06/27/2014 19:28

CRA
Suite A
5900 Hollis Street
Emeryville CA 94608

C3424

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.005	1.02
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.005	1.02
10237	Tetrachloroethene	127-18-4	N.D.	0.001	0.005	1.02
10237	Trichloroethene	79-01-6	N.D.	0.001	0.005	1.02
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	1.02

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	B141771AA	06/26/2014 20:52	Christopher G Torres	1.02
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201417034847	06/19/2014 17:58	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201417034847	06/19/2014 17:58	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201417034847	06/19/2014 17:34	Mitchell R Washel	n.a.

*=This limit was used in the evaluation of the final result

Sample Description: **SB-34-S-29.5-140617 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 SB-34

LL Sample # SW 7504857
LL Group # 1483132
Account # 11997

Project Name: 96817

Collected: 06/17/2014 14:17 by CH

Submitted: 06/19/2014 09:30
Reported: 06/27/2014 19:28

CRA
Suite A
5900 Hollis Street
Emeryville CA 94608

C3429

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.005	0.97
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.005	0.97
10237	Tetrachloroethene	127-18-4	N.D.	0.001	0.005	0.97
10237	Trichloroethene	79-01-6	N.D.	0.001	0.005	0.97
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	0.97

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	B141771AA	06/26/2014 21:14	Christopher G Torres	0.97
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201417034847	06/19/2014 17:58	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201417034847	06/19/2014 17:58	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201417034847	06/19/2014 17:36	Mitchell R Washel	n.a.

*=This limit was used in the evaluation of the final result

Sample Description: **SB-34-S-34.5-140617 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 SB-34

LL Sample # SW 7504858
LL Group # 1483132
Account # 11997

Project Name: 96817

Collected: 06/17/2014 14:23 by CH

Submitted: 06/19/2014 09:30
Reported: 06/27/2014 19:28

CRA
Suite A
5900 Hollis Street
Emeryville CA 94608

C3434

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.005	0.99
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.005	0.99
10237	Tetrachloroethene	127-18-4	N.D.	0.001	0.005	0.99
10237	Trichloroethene	79-01-6	N.D.	0.001	0.005	0.99
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	0.99

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	B141771AA	06/26/2014 21:37	Christopher G Torres	0.99
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201417034847	06/19/2014 17:58	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201417034847	06/19/2014 17:58	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201417034847	06/19/2014 17:48	Mitchell R Washel	n.a.

*=This limit was used in the evaluation of the final result

Sample Description: **SB-34-S-39.5-140617 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 SB-34

LL Sample # SW 7504859
LL Group # 1483132
Account # 11997

Project Name: 96817

Collected: 06/17/2014 14:35 by CH

Submitted: 06/19/2014 09:30
Reported: 06/27/2014 19:28

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5900 Hollis Street
Emeryville CA 94608

C3439

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.005	0.99
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.005	0.99
10237	Tetrachloroethene	127-18-4	N.D.	0.001	0.005	0.99
10237	Trichloroethene	79-01-6	N.D.	0.001	0.005	0.99
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	0.99

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	B141771AA	06/26/2014 22:00	Christopher G Torres	0.99
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201417034847	06/19/2014 17:58	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201417034847	06/19/2014 17:58	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201417034847	06/19/2014 17:50	Mitchell R Washel	n.a.

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Analysis Report

Sample Description: **SB-34-S-44.5-140617 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 SB-34

LL Sample # SW 7504860
LL Group # 1483132
Account # 11997

Project Name: 96817

Collected: 06/17/2014 14:46 by CH

Submitted: 06/19/2014 09:30
Reported: 06/27/2014 19:28

CRA
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5900 Hollis Street
Emeryville CA 94608

C3444

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.005	1.03
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.005	1.03
10237	Tetrachloroethene	127-18-4	N.D.	0.001	0.005	1.03
10237	Trichloroethene	79-01-6	N.D.	0.001	0.005	1.03
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	1.03

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	B141771AA	06/26/2014 22:22	Christopher G Torres	1.03
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201417034847	06/19/2014 17:58	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201417034847	06/19/2014 17:58	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201417034847	06/19/2014 17:53	Mitchell R Washel	n.a.

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Analysis Report

Sample Description: **SB-34-S-49.5-140617 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 SB-34

LL Sample # SW 7504861
LL Group # 1483132
Account # 11997

Project Name: 96817

Collected: 06/17/2014 15:07 by CH

Submitted: 06/19/2014 09:30
Reported: 06/27/2014 19:28

CRA
Suite A
5900 Hollis Street
Emeryville CA 94608

C3449

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.005	0.96
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.005	0.96
10237	Tetrachloroethene	127-18-4	N.D.	0.001	0.005	0.96
10237	Trichloroethene	79-01-6	N.D.	0.001	0.005	0.96
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	0.96

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	B141771AA	06/26/2014 22:44	Christopher G Torres	0.96
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201417034847	06/19/2014 17:58	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201417034847	06/19/2014 17:58	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201417034847	06/19/2014 17:55	Mitchell R Washel	n.a.

*=This limit was used in the evaluation of the final result

Sample Description: **CPT-29-S-9.5-140618 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-29

LL Sample # SW 7504862
LL Group # 1483132
Account # 11997

Project Name: 96817

Collected: 06/18/2014 08:05 by CH

Submitted: 06/19/2014 09:30
Reported: 06/27/2014 19:28

CRA
Suite A
5900 Hollis Street
Emeryville CA 94608

C2909

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.005	1.03
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.005	1.03
10237	Tetrachloroethene	127-18-4	N.D.	0.001	0.005	1.03
10237	Trichloroethene	79-01-6	N.D.	0.001	0.005	1.03
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	1.03

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	B141771AA	06/26/2014 23:06	Christopher G Torres	1.03
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201417034847	06/19/2014 18:53	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201417034847	06/19/2014 18:53	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201417034847	06/19/2014 18:39	Mitchell R Washel	n.a.

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Analysis Report

Sample Description: CPT-29-S-14.5-140618 Grab Soil
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-29

LL Sample # SW 7504863
LL Group # 1483132
Account # 11997

Project Name: 96817

Collected: 06/18/2014 08:08 by CH

Submitted: 06/19/2014 09:30
Reported: 06/27/2014 19:28

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C2914

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		mg/kg	mg/kg	mg/kg	
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.005	0.99
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.005	0.99
10237	Tetrachloroethene	127-18-4	N.D.	0.001	0.005	0.99
10237	Trichloroethene	79-01-6	N.D.	0.001	0.005	0.99
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	0.99

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	B141771AA	06/26/2014 18:15	Christopher G Torres	0.99
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201417034847	06/19/2014 17:58	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201417034847	06/19/2014 17:58	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	3	201417034847	06/19/2014 17:58	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	4	201417034847	06/19/2014 17:58	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201417034847	06/19/2014 17:42	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	2	201417034847	06/19/2014 17:43	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	3	201417034847	06/19/2014 17:43	Mitchell R Washel	n.a.

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Analysis Report

Sample Description: **CPT-29-S-19.5-140618 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-29

LL Sample # SW 7504864
LL Group # 1483132
Account # 11997

Project Name: 96817

Collected: 06/18/2014 08:18 by CH

Submitted: 06/19/2014 09:30
Reported: 06/27/2014 19:28

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5900 Hollis Street
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C2919

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.005	0.97
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.005	0.97
10237	Tetrachloroethene	127-18-4	N.D.	0.001	0.005	0.97
10237	Trichloroethene	79-01-6	N.D.	0.001	0.005	0.97
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	0.97

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	B141771AA	06/26/2014 23:28	Christopher G Torres	0.97
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201417034847	06/19/2014 18:53	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201417034847	06/19/2014 18:53	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201417034847	06/19/2014 18:41	Mitchell R Washel	n.a.

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Analysis Report

Sample Description: **CPT-29-S-24.5-140618 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-29

LL Sample # SW 7504865
LL Group # 1483132
Account # 11997

Project Name: 96817

Collected: 06/18/2014 08:23 by CH

Submitted: 06/19/2014 09:30
Reported: 06/27/2014 19:28

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C2924

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.005	1.02
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.005	1.02
10237	Tetrachloroethene	127-18-4	N.D.	0.001	0.005	1.02
10237	Trichloroethene	79-01-6	N.D.	0.001	0.005	1.02
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	1.02

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	B141771AA	06/26/2014 23:51	Christopher G Torres	1.02
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201417034847	06/19/2014 18:53	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201417034847	06/19/2014 18:53	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201417034847	06/19/2014 18:43	Mitchell R Washel	n.a.

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Analysis Report

Sample Description: **CPT-29-S-29.5-140618 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-29

LL Sample # SW 7504866
LL Group # 1483132
Account # 11997

Project Name: 96817

Collected: 06/18/2014 08:32 by CH

Submitted: 06/19/2014 09:30
Reported: 06/27/2014 19:28

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Emeryville CA 94608

C2929

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.005	0.98
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.005	0.98
10237	Tetrachloroethene	127-18-4	N.D.	0.001	0.005	0.98
10237	Trichloroethene	79-01-6	N.D.	0.001	0.005	0.98
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	0.98

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	B141771AA	06/27/2014 00:13	Christopher G Torres	0.98
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201417034847	06/19/2014 18:53	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201417034847	06/19/2014 18:53	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201417034847	06/19/2014 18:45	Mitchell R Washel	n.a.

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Sample Description: **CPT-29-S-34.5-140618 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-29

LL Sample # SW 7504867
LL Group # 1483132
Account # 11997

Project Name: 96817

Collected: 06/18/2014 08:34 by CH

Submitted: 06/19/2014 09:30
Reported: 06/27/2014 19:28

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C2934

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.005	0.96
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.005	0.96
10237	Tetrachloroethene	127-18-4	N.D.	0.001	0.005	0.96
10237	Trichloroethene	79-01-6	N.D.	0.001	0.005	0.96
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	0.96

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	B141771AA	06/27/2014 00:35	Christopher G Torres	0.96
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201417034847	06/19/2014 18:53	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201417034847	06/19/2014 18:53	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201417034847	06/19/2014 18:47	Mitchell R Washel	n.a.

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Analysis Report

Sample Description: **CPT-29-S-39.5-140618 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-29

LL Sample # SW 7504868
LL Group # 1483132
Account # 11997

Project Name: 96817

Collected: 06/18/2014 08:46 by CH

Submitted: 06/19/2014 09:30
Reported: 06/27/2014 19:28

CRA
Suite A
5900 Hollis Street
Emeryville CA 94608

C2939

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.005	0.95
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.005	0.95
10237	Tetrachloroethene	127-18-4	N.D.	0.001	0.005	0.95
10237	Trichloroethene	79-01-6	N.D.	0.001	0.005	0.95
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	0.95

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	A141771AA	06/27/2014 02:02	Andrea E Lando	0.95
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201417034847	06/19/2014 18:53	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201417034847	06/19/2014 18:53	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201417034847	06/19/2014 18:48	Mitchell R Washel	n.a.

*=This limit was used in the evaluation of the final result

eurofins
Lancaster Laboratories Environmental
2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

Sample Description: **CPT-29-S-44.5-140618 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-29

LL Sample # SW 7504869
LL Group # 1483132
Account # 11997

Project Name: 96817

Collected: 06/18/2014 08:53 by CH

Submitted: 06/19/2014 09:30
Reported: 06/27/2014 19:28

CRA
Suite A
5900 Hollis Street
Emeryville CA 94608

C2944

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.005	0.99
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.005	0.99
10237	Tetrachloroethene	127-18-4	N.D.	0.001	0.005	0.99
10237	Trichloroethene	79-01-6	N.D.	0.001	0.005	0.99
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	0.99

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	A141771AA	06/27/2014 02:28	Andrea E Lando	0.99
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201417034847	06/19/2014 18:53	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201417034847	06/19/2014 18:54	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201417034847	06/19/2014 18:50	Mitchell R Washel	n.a.

*=This limit was used in the evaluation of the final result

eurofins | Lancaster Laboratories Environmental

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

Sample Description: **CPT-29-S-49.5-140618 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-29

LL Sample # SW 7504870
LL Group # 1483132
Account # 11997

Project Name: 96817

Collected: 06/18/2014 09:02 by CH

Submitted: 06/19/2014 09:30
Reported: 06/27/2014 19:28

CRA
Suite A
5900 Hollis Street
Emeryville CA 94608

C2949

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.005	1.02
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.005	1.02
10237	Tetrachloroethene	127-18-4	N.D.	0.001	0.005	1.02
10237	Trichloroethene	79-01-6	N.D.	0.001	0.005	1.02
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	1.02

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	A141771AA	06/27/2014 02:52	Andrea E Lando	1.02
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201417034847	06/19/2014 18:54	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201417034847	06/19/2014 18:54	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201417034847	06/19/2014 18:52	Mitchell R Washel	n.a.

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: CRA Group Number: 1483132
Reported: 06/27/14 at 07:28 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: A141771AA	Sample number(s): 7504832-7504848,7504868-7504870								
cis-1,2-Dichloroethene	N.D.	0.001	0.005	mg/kg	112		80-120		
trans-1,2-Dichloroethene	N.D.	0.001	0.005	mg/kg	114		79-120		
Tetrachloroethene	N.D.	0.001	0.005	mg/kg	116		78-120		
Trichloroethene	N.D.	0.001	0.005	mg/kg	112		80-120		
Vinyl Chloride	N.D.	0.001	0.005	mg/kg	102		59-120		
Batch number: B141762AA	Sample number(s): 7504819-7504831								
cis-1,2-Dichloroethene	N.D.	0.001	0.005	mg/kg	110	108	80-120	2	30
trans-1,2-Dichloroethene	N.D.	0.001	0.005	mg/kg	120	106	79-120	13	30
Tetrachloroethene	N.D.	0.001	0.005	mg/kg	120	120	78-120	0	30
Trichloroethene	N.D.	0.001	0.005	mg/kg	110	108	80-120	2	30
Vinyl Chloride	N.D.	0.001	0.005	mg/kg	103	99	59-120	3	30
Batch number: B141771AA	Sample number(s): 7504849-7504867								
cis-1,2-Dichloroethene	N.D.	0.001	0.005	mg/kg	106	107	80-120	1	30
trans-1,2-Dichloroethene	N.D.	0.001	0.005	mg/kg	116	107	79-120	8	30
Tetrachloroethene	N.D.	0.001	0.005	mg/kg	105	105	78-120	1	30
Trichloroethene	N.D.	0.001	0.005	mg/kg	105	106	80-120	1	30
Vinyl Chloride	N.D.	0.001	0.005	mg/kg	82	81	59-120	1	30

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: A141771AA	Sample number(s): 7504832-7504848,7504868-7504870 UNSPK: 7504843								
cis-1,2-Dichloroethene	125	126	67-135	2	30				
trans-1,2-Dichloroethene	131	130	64-144	0	30				
Tetrachloroethene	139	133	42-149	3	30				
Trichloroethene	127	126	53-144	1	30				
Vinyl Chloride	123	119	50-154	3	30				
Batch number: B141771AA	Sample number(s): 7504849-7504867 UNSPK: 7504863								
cis-1,2-Dichloroethene	124	116	67-135	5	30				
trans-1,2-Dichloroethene	117	106	64-144	8	30				
Tetrachloroethene	136	124	42-149	7	30				
Trichloroethene	125	115	53-144	6	30				
Vinyl Chloride	113	103	50-154	7	30				

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CRA
Reported: 06/27/14 at 07:28 PM

Group Number: 1483132

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 8260 Ext. Soil Master w/GRO
Batch number: A141771AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7504832	104	101	94	88
7504833	105	101	94	87
7504834	104	98	95	84
7504835	105	99	94	86
7504836	106	101	95	86
7504837	108	104	93	87
7504838	107	103	94	87
7504839	108	101	93	85
7504840	108	103	93	85
7504841	110	105	92	88
7504842	109	105	92	85
7504843	102	96	95	86
7504844	110	104	93	85
7504845	110	104	92	86
7504846	110	103	94	85
7504847	111	105	92	85
7504848	112	103	92	84
7504868	112	104	93	85
7504869	112	106	92	85
7504870	114	105	91	85
Blank	104	106	92	89
LCS	102	102	96	94
MS	101	97	99	92
MSD	100	97	97	92
Limits:	50-141	54-135	52-141	50-131

Analysis Name: 8260 Ext. Soil Master w/GRO
Batch number: B141762AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7504819	102	109	100	98
7504820	98	99	102	94
7504821	99	103	101	95
7504822	97	98	104	93
7504823	97	99	104	94
7504824	98	101	101	94
7504825	98	103	102	94
7504826	98	100	102	95

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CRA
Reported: 06/27/14 at 07:28 PM

Group Number: 1483132

Surrogate Quality Control

7504827	100	106	101	97
7504828	98	100	103	93
7504829	98	101	103	95
7504830	97	100	103	95
7504831	97	100	103	95
Blank	100	103	101	97
LCS	103	105	102	100
LCSD	99	105	103	99
Limits:	50-141	54-135	52-141	50-131

Analysis Name: 8260 Ext. Soil Master w/GRO
Batch number: B141771AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7504849	99	103	101	98
7504850	96	99	100	97
7504851	98	104	100	98
7504852	96	99	104	93
7504853	96	100	101	96
7504854	95	99	102	96
7504855	98	108	100	98
7504856	95	99	102	96
7504857	97	104	100	97
7504858	97	104	100	98
7504859	96	100	101	96
7504860	95	99	101	95
7504861	94	95	101	96
7504862	95	99	102	97
7504863	97	101	101	98
7504864	96	99	101	96
7504865	95	100	102	95
7504866	96	102	101	94
7504867	97	101	100	97
Blank	97	104	99	98
LCS	97	101	103	99
LCSD	97	102	102	98
MS	96	102	103	98
MSD	96	102	101	98
Limits:	50-141	54-135	52-141	50-131

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Chevron California Region Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories

Acct. # 11997 Group # 1483132 Sample # 7504819-70

For Lancaster Laboratories use only

Instructions on reverse side correspond with circled numbers.

06/18/14 -01 1044

1 Client Information

Facility # 96817

WBS

Site Address: 1705 Contra Costa Blvd, Pleasant Hill, CA

Chevron PM: Brian Waite

Lead Consultant

Consultant/Office: CRA / Concord

Consultant Project Mgr.: Brandon Wilken

Consultant Phone #: (925) 849 - 1000

Sampler: Celina Hernandez / Charley Austin

SCR #:

- ☐ Results in Dry Weight
- ☐ J value reporting needed
- ☐ Must meet lowest detection limits possible for 8260 compounds
- ☐ 8021 MTBE Confirmation
- ☐ Confirm highest hit by 8260
- ☐ Confirm all hits by 8260
- ☐ Run _____ oxy's on highest hit
- ☐ Run _____ oxy's on all hits

2 Sample Identification / 3 / 4 Matrix / 5 Analyses Requested

Sample Identification	Collected Date	Collected Time	Grab	Composite	Soil	Water	Oil	Total Number of Containers	BTEX + MTBE 8021	BTEX + MTBE 8260	TPH GRO 8015	TPH GRO 8260	TPH 8015 MOD DRO	Silica Gel Cleanup	8260 Full Scan	Oxygenates	Total Lead	Dissolved Lead	8260 see remarks
CPT-21-10.5	6/16/14	0821	X		X			1											X
CPT-21-15	6/16/14	0826	X		X			1											X
~~CPT-21-20~~																			
CPT-21-19.5'	6/16/14	0832	X		X			1											X
CPT-21-23.5'	6/16/14	0843	X		X			1											X
CPT-21-27.5	6/16/14	0858	X		X			1											X
CPT-21-29'	6/16/14	0910	X		X			1											X
CPT-21-35.5'	6/16/14	0919	X		X			1											X
CPT-21-36'	6/16/14	0938	X		X			1											X
CPT-21-40.5'	6/16/14	0958	X		X			1											X
CPT-21-43.5	6/16/14	1000	X		X			1											X
CPT-21-46.5'	6/16/14	1020	X		X			1											X
CPT-21-51.5'	6/16/14	1040	X		X			1											X

6 Remarks

PCE

(CA) TCE

~~cis-1,2~~ (CA)

C-1,2-DCE

T-1,2-DCE

Vinyl Chloride

email - BWilken@craworld.com + CHernandez@craworld.com

7 Turnaround Time Requested (TAT) (please circle)

Standard | 5 day | 4 day | 72 hour | 48 hour | 24 hour

8 Data Package Options (please circle if required)

Type I - Full | Type VI (Raw Data)

9

Relinquished by	Date	Time	Received by	Date	Time
Celina [signature]	6/16/14	1830	Secured Location	06/16/30	1830
[signature]	6/18/14	10:45	[signature]	6/18/14	1045
Relinquished by Commerical Carrier: ✕ UPS [signature] FedEx ____ Other ____	6/18/14	1600	Received by UPS [signature]	6/18/14	930

Temperature Upon Receipt 0.5-1.6 °C

Custody Seals Intact? Yes No

Chevron California Region Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories

Acct. # 11997 Group # 1483132 Sample # 7504819-70

For Lancaster Laboratories use only

Instructions on reverse side correspond with circled numbers.

06/18/14-01 3 of 4

1 Client Information

Facility # 96817

WBS

Site Address: 1705 Contra Costa Blvd, Pleasant Hill, CA

Chevron PM: Brian Waite

Lead Consultant

Consultant/Office: CRA / Concord

Consultant Project Mgr.: Brandon Wilken

Consultant Phone #: (925) 849-1000

Sampler: Celina Hernandez / Charley Austin

SCR #:

- ☐ Results in Dry Weight
- ☐ J value reporting needed
- ☐ Must meet lowest detection limits possible for 8260 compounds
- ☐ 8021 MTBE Confirmation
- ☐ Confirm highest hit by 8260
- ☐ Confirm all hits by 8260
- ☐ Run _____ oxy's on highest hit
- ☐ Run _____ oxy's on all hits

2 Sample Identification / **3 Collected** / **4 Matrix** / **5 Analyses Requested**

Sample Identification	Date	Time	Grab	Composite	Soil	Water	Oil	Sediment	Ground	Potable	Surface	NPDES	Air	Total Number of Containers	BTEX + MTBE 8021	BTEX + MTBE 8260	TPH GRO 8015	TPH GRO 8260	TPH 8015 MOD DRO	Silica Gel Cleanup	8260 Full Scan	Oxygenates	Total Lead	Dissolved Lead	8260 See remarks
CPT-28-10.5	6/16/14	1346	X		X									1											X
CPT-28-15.5'	6/16/14	1354	X		X									1											X
CPT-28-19.5'	6/16/14	1357	X		X									1											X
CPT-28-23.5	6/16/14	1407	X		X									1											X
CPT-28-27.5	6/16/14	1419	X		X									1											X
CPT-28-31.5	6/16/14	1434	X		X									1											X
CPT-28-35.5	6/16/14	1450	X		X									1											X
CPT-28-39.5	6/16/14	1507	X		X									1											X
CPT-28-43.5'	6/16/14	1518	X		X									1											X
CPT-28-47.5	6/16/14	1537	X		X									1											X
CPT-28-50.5	6/16/14	1607	X		X									1											X

6 Remarks

PCE
TCE
C-1,2-DCE
T-1,2-DCE
VC

email - BWILKEN@CRAWORLD.COM & CHERNANDEZ@CRAWORLD.COM

7 Turnaround Time Requested (TAT) (please circle)

Standard | 5 day | 4 day | 72 hour | 48 hour | 24 hour

8 Data Package Options (please circle if required)

Type I - Full | Type VI (Raw Data)

Relinquished by	Date	Time	Received by	Date	Time
[signature]	6/16/14	1830	Secured Location	6/16/14	1830
[signature]	6/18/14	10:45	[signature]	6/18/14	1045
Relinquished by Commerical Carrier: UPS [signature] FedEx ____ Other ____	6/18/14	1600	UPS [signature]	6/19/14	930

Temperature Upon Receipt 0.5-1.6 °C

Custody Seals Intact? Yes No

9

Chevron California Region Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories

Acct. # 11997 Group # 1483132 Sample # 7504819-70

For Lancaster Laboratories use only

Instructions on reverse side correspond with circled numbers.

0618 14-01 4 of 4

1 Client Information

Facility # 96817

WBS

Site Address: 1705 Contra Costa Blvd, Pleasant Hill, CA

Chevron PM: Brian Waite

Lead Consultant

Consultant/Office: CRA / Concord

Consultant Project Mgr.: Brandon Wilken

Consultant Phone #: (925) 849-1000

Sampler: Celina Hernandez / Charley Austin

SCR #:

- ☐ Results in Dry Weight
- ☐ J value reporting needed
- ☐ Must meet lowest detection limits possible for 8260 compounds
- ☐ 8021 MTBE Confirmation
- ☐ Confirm highest hit by 8260
- ☐ Confirm all hits by 8260
- ☐ Run _____ oxy's on highest hit
- ☐ Run _____ oxy's on all hits

2 Sample Identification / 3 Collected / 4 Matrix / 5 Analyses Requested

Sample Identification	Collected Date	Collected Time	Grab	Composite	Soil	Water: Sediment	Water: Ground	Water: Potable	Water: Surface	Water: NPDES	Oil	Air	Total Number of Containers	BTEX + MTBE 8021	BTEX + MTBE 8260	TPH GRO 8015	TPH GRO 8260	TPH 8015 MOD DRO	Silica Gel Cleanup	8260 Full Scan	Oxygenates	Total Lead	Dissolved Lead	8260 see remarks
SB-22-9.5	6/17/14	0828	X		X								1											X
SB-22-14.5	6/17/14	0833	X		X								1											X
SB-22-19.5	6/17/14	0847	X		X								1											X
SB-22-24.5	6/17/14	0854	X		X								1											X
SB-22-29	6/17/14	0855	X		X								1											X
SB-22-34.5	6/17/14	0900	X		X								1											X
SB-22-39.5'	6/17/14	0908	X		X								1											X
SB-22-49.5	6/17/14	0932	X		X								1											X
SB-22-45'	6/17/14	0935	X		X								1											X
SB-22-44	6/17/14	0943	X		X								1											X

6 Remarks

PCE
TCE
C-1,2-DCE
T-1,2-DCE
VC

email BWILKEN@CRAWORLD.COM
& CHERNANDEZ@CRAWORLD.COM

7 Turnaround Time Requested (TAT) (please circle)

Standard | 5 day | 4 day | 72 hour | 48 hour | 24 hour

8 Data Package Options (please circle if required)

Type I - Full | Type VI (Raw Data)

9

Relinquished by	Date	Time	Received by	Date	Time
Celina [signature]	6/17/14	1800	Secured Location	6/17/14	1800
[signature]	6/18/14	10:45	[signature]	6/18/14	1045
Relinquished by Commerical Carrier: ☒ UPS [signature] FedEx ____ Other ____	6/18/14	1600	UPS [signature]	6/18/14	930

Temperature Upon Receipt 0.5-1.6 °C

Custody Seals Intact? Yes No

Chevron California Region Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories

Acct. # 11997 Group # 1483132 Sample # 7504819-70
For Lancaster Laboratories use only
Instructions on reverse side correspond with circled numbers.

0618 14-01 2of4

SCR #:

1 Client Information

Facility # 96817
WBS
Site Address 1705 Contra Costa Blvd, Pleasant Hill, CA
Chevron PM Brian Waite
Lead Consultant
Consultant/Office CRA/Concord
Consultant Project Mgr. Brandon Wilken
Consultant Phone # (925) 849-1000
Sampler Celina Hernandez / Charley Austin

4 Matrix

Sediment ☐ Ground ☐ Surface ☐ Potable ☐ NPDES ☐ Air ☐ Soil ☒ Water ☐ Oil ☐

5 Analyses Requested

Total Number of Containers; BTEX + MTBE 8021 ☐ 8260 ☐; TPH GRO 8015 ☐ 8260 ☐; TPH 8015 MOD DRO; Silica Gel Cleanup; 8260 Full Scan; Oxygenates; Total Lead; Dissolved Lead; Method; Method; 8260B See remarks

- ☐ Results in Dry Weight
- ☐ J value reporting needed
- ☐ Must meet lowest detection limits possible for 8260 compounds
- ☐ 8021 MTBE Confirmation
- ☐ Confirm highest hit by 8260
- ☐ Confirm all hits by 8260
- ☐ Run _____ oxy's on highest hit
- ☐ Run _____ oxy's on all hits

2 Sample Identification	Collected Date	Collected Time	3 Grab	Composite	Soil	Water	Oil	Total Number of Containers	BTEX + MTBE 8021	BTEX + MTBE 8260	TPH GRO 8015	TPH GRO 8260	TPH 8015 MOD DRO	Silica Gel Cleanup	8260 Full Scan	Oxygenates	Total Lead	Dissolved Lead	8260B See remarks
SB-34-5'	6/17/14	1325	X		X			1											X
SB-34-9.5'	6/17/14	1355	X		X			1											X
SB-34-14.5	6/17/14	1400	X		X			1											X
SB-34-19.5	6/17/14	1405	X		X			1											X
SB-34-24.5	6/17/14	1412	X		X			1											X
SB-34-29.5	6/17/14	1417	X		X			1											X
SB-34-34.5	6/17/14	1423	X		X			1											X
SB-34-39.5	6/17/14	1435	X		X			1											X
SB-34-44.5	6/17/14	1446	X		X			1											X
SB-34-49.5	6/17/14	1507	X		X			1											X

6 Remarks

PCE
TCE
C-1,2-DCE
T-1,2-DCE
VC

email
BWILKEN@CRAWORLD.com
CHERNANDEZ@CRAWORLD.com

7 Turnaround Time Requested (TAT) (please circle)

Standard | 5 day | 4 day | 72 hour | 48 hour | 24 hour

8 Data Package Options (please circle if required)

Type I - Full | Type VI (Raw Data)

9

Relinquished by	Date	Time	Received by	Date	Time
[signature]	6/17/14	1800	Secured Locker	6/17/14	1800
[signature]	6/18/14	10:45	[signature]	6/18/14	1045
Relinquished by Commerical Carrier: UPS [signature] FedEx ____ Other ____ 6/18/14 1600			UPS [signature]	6/18/14	9:30

Temperature Upon Receipt 0.5-1.6 °C

Custody Seals Intact? Yes No

Chevron California Region Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories

Acct. # 11997 Group # 1483132 Sample # 7504819-70

For Lancaster Laboratories use only

Instructions on reverse side correspond with circled numbers.

06814-04 1 of 2

1 Client Information

Facility # 96817

WBS

Site Address: 1705 Contra Costa Blvd, Pleasant Hill, CA

Chevron PM: Brian Waite

Lead Consultant

Consultant/Office: CRA | Concord

Consultant Project Mgr.: Brandon Wilken

Consultant Phone #: (925) 849-1000

Sampler: Celina Hernandez | Charley Austin

SCR #:

- ☐ Results in Dry Weight
- ☐ J value reporting needed
- ☐ Must meet lowest detection limits possible for 8260 compounds
- ☐ 8021 MTBE Confirmation
- ☐ Confirm highest hit by 8260
- ☐ Confirm all hits by 8260
- ☐ Run _____ oxy's on highest hit
- ☐ Run _____ oxy's on all hits

4 Matrix / 5 Analyses Requested

2 Sample Identification	Collected Date	Collected Time	3 Grab	Composite	Soil	Water: Sediment	Water: Ground	Water: Potable	Water: Surface	Water: NPDES	Oil	Air	Total Number of Containers	BTEX + MTBE 8021	BTEX + MTBE 8260	TPH GRO 8015	TPH GRO 8260	TPH 8015 MOD DRO	Silica Gel Cleanup	8260 Full Scan	Oxygenates	Total Lead	Dissolved Lead	8260B - see remarks
CPT-29-9.5	6/18/14	0805	X		X								1											X
CPT-29-14.5	6/18/14	0808	X		X								1											X
CPT-29-19.5	6/18/14	0818	X		X								1											X
CPT-29-24.5	6/18/14	0823	X		X								1											X
CPT-29-29.5	6/18/14	0832	X		X								1											X
CPT-29-34.5	6/18/14	0834	X		X								1											X
CPT-29-39.5	6/18/14	0846	X		X								1											X
CPT-29-44.5	6/18/14	0853	X		X								1											X
CPT-29-49.5	6/18/14	0902	X		X								1											X

6 Remarks

PCE
TCE
C-1,2-DCE
T-1,2-DCE
VC
email
BWILKEN@CRAWORLD.com
+
CHERNANDEZ@CRAWORLD.com

7 Turnaround Time Requested (TAT) (please circle)

Standard | 5 day | 4 day | 72 hour | 48 hour | 24 hour

8 Data Package Options (please circle if required)

Type I - Full | Type VI (Raw Data)

Relinquished by	Date	Time	Received by	Date	Time
[signature]	6/18/14	1445	[signature]	6/18/14	1445
[signature]	6/18/14	1600	UPS		

Relinquished by Commerical Carrier: UPS X FedEx ____ Other ____

Received by: [signature] Date 6/19/14 Time 930

Temperature Upon Receipt 0.5-1.6 °C

Custody Seals Intact? Yes No

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Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
µg	microgram(s)	**mg**	milligram(s)
mL	milliliter(s)	**L**	liter(s)
m3	cubic meter(s)	**µL**	microliter(s)
		pg/L	picogram/liter

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

Data Qualifiers:

C – result confirmed by reanalysis.

J - estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
A	TIC is a possible aldol-condensation product	**B**	Value is <CRDL, but ≥IDL
B	Analyte was also detected in the blank	**E**	Estimated due to interference
C	Pesticide result confirmed by GC/MS	**M**	Duplicate injection precision not met
D	Compound quantitated on a diluted sample	**N**	Spike sample not within control limits
E	Concentration exceeds the calibration range of the instrument	**S**	Method of standard additions (MSA) used for calculation
N	Presumptive evidence of a compound (TICs only)	**U**	Compound was not detected
P	Concentration difference between primary and confirmation columns >25%	**W**	Post digestion spike out of control limits
U	Compound was not detected	*****	Duplicate analysis not within control limits
X,Y,Z	Defined in case narrative	**+**	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

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Analysis Report

REVISED

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

Chevron c/o CRA
Suite A
5900 Hollis Street
Emeryville CA 94608

June 12, 2014

Project: 96817

Submittal Date: 06/07/2014
Group Number: 1480257
PO Number: 96817
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LL) #
CPT-33-S-5-140605 Grab Soil	7491564
CPT-24-S-5-140605 Grab Soil	7491565

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	Chevron c/o CRA	Attn: Brandon Wilken
ELECTRONIC COPY TO	CRA	Attn: Celina Hernandez

Respectfully Submitted,

Natalie R. Luciano
Senior Specialist

(717) 556-7258

eurofins
Lancaster Laboratories Environmental
2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

REVISED

Sample Description: **CPT-33-S-5-140605 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-33

LL Sample # SW 7491564
LL Group # 1480257
Account # 11997

Project Name: 96817

Collected: 06/05/2014 16:20 by BY

Submitted: 06/07/2014 09:00
Reported: 06/12/2014 14:59

Chevron c/o CRA
Suite A
5900 Hollis Street
Emeryville CA 94608

CC335

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.005	1.02
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.005	1.02
10237	Tetrachloroethene	127-18-4	0.009	0.001	0.005	1.02
10237	Trichloroethene	79-01-6	N.D.	0.001	0.005	1.02
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	1.02

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	B141621AA	06/11/2014 14:20	Chelsea B Stong	1.02
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201416034754	06/09/2014 11:52	Larry E Bevins	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201416034754	06/09/2014 11:51	Larry E Bevins	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201416034754	06/09/2014 11:46	Larry E Bevins	n.a.

*=This limit was used in the evaluation of the final result

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Analysis Report

REVISED

Sample Description: **CPT-24-S-5-140605 Grab Soil**
Facility# 96817 CRAW
1705 Contra Costa-Pleasant T0601300404 CPT-24

LL Sample # SW 7491565
LL Group # 1480257
Account # 11997

Project Name: 96817

Collected: 06/05/2014 16:50 by BY

Submitted: 06/07/2014 09:00
Reported: 06/12/2014 14:59

Chevron c/o CRA
Suite A
5900 Hollis Street
Emeryville CA 94608

CC245

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	cis-1,2-Dichloroethene	156-59-2	0.066	0.001	0.005	1.04
10237	trans-1,2-Dichloroethene	156-60-5	0.002	0.001	0.005	1.04
10237	Tetrachloroethene	127-18-4	0.086	0.001	0.005	1.04
10237	Trichloroethene	79-01-6	0.16	0.001	0.005	1.04
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.005	1.04

The LCS is outside the QC limits. Since the recovery is high and no analytes are detected above the quantitation limit, the data are reported.

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Ext. Soil Master w/GRO	SW-846 8260B	1	B141621AA	06/11/2014 14:43	Chelsea B Stong	1.04
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201416034754	06/09/2014 11:52	Larry E Bevins	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201416034754	06/09/2014 11:52	Larry E Bevins	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201416034754	06/09/2014 11:44	Larry E Bevins	n.a.

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: Chevron c/o CRA Group Number: 1480257
Reported: 06/12/14 at 02:59 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B141621AA	Sample number(s): 7491564-7491565								
cis-1,2-Dichloroethene	N.D.	0.001	0.005	mg/kg	108		80-120		
trans-1,2-Dichloroethene	N.D.	0.001	0.005	mg/kg	125*		79-120		
Tetrachloroethene	N.D.	0.001	0.005	mg/kg	107		78-120		
Trichloroethene	N.D.	0.001	0.005	mg/kg	107		80-120		
Vinyl Chloride	N.D.	0.001	0.005	mg/kg	100		59-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: B141621AA	Sample number(s): 7491564-7491565 UNSPK: P491785								
cis-1,2-Dichloroethene	109	103	67-135	6	30				
trans-1,2-Dichloroethene	116	110	64-144	7	30				
Tetrachloroethene	99	87	42-149	14	30				
Trichloroethene	105	96	53-144	11	30				
Vinyl Chloride	128	114	50-154	13	30				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 8260 Ext. Soil Master w/GRO
Batch number: B141621AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7491564	105	108	99	95
7491565	106	105	104	88
Blank	106	101	97	94
LCS	106	100	100	99
MS	104	106	103	95
MSD	103	102	106	90
Limits:	50-141	54-135	52-141	50-131

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Chevron c/o CRA
Reported: 06/12/14 at 02:59 PM

Group Number: 1480257

Surrogate Quality Control

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Chevron California Region Analysis Request/Chain of Custody

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Acct. # 11997 Group # 1480257 Sample # 1491564-65

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Instructions on reverse side correspond with circled numbers.

1 Client Information

Facility #: CHEVRON 96817

WBS:

Site Address: 1705 CONTRA COSTA BLVD., PLEASANT HILL, CA

Chevron PM: BRIAN WAITE

Lead Consultant:

Consultant/Office: EMERYVILLE, CA

Consultant Project Mgr.: CELINA HERNANDEZ

Consultant Phone #: 510 593 4728

Sampler: BELEW YIFRU

SCR #:

- ☐ Results in Dry Weight
- ☐ J value reporting needed
- ☐ Must meet lowest detection limits possible for 8260 compounds
- ☐ 8021 MTBE Confirmation
- ☐ Confirm highest hit by 8260
- ☐ Confirm all hits by 8260
- ☐ Run _____ oxy's on highest hit
- ☐ Run _____ oxy's on all hits

2 Sample Identification	Collected Date	Collected Time	3 Grab	Composite	4 Matrix: Soil	Water: Sediment	Potable	Ground	NPDES	Surface	Oil	Air	Total Number of Containers	5 Analyses Requested: BTEX + MTBE 8021	8260	TPH GRO 8015	8260	TPH 8015 MOD DRO	Silica Gel Cleanup	8260 Full Scan	Oxygenates	Total Lead	Method	Dissolved Lead	Method	8260 SEE COMMENTS			
CPT-33-5	6/5/14	1620	X		X								1													X			
CPT-24-5	6/5/14	1650	X		X								1													X			

6 Remarks

PCE, TCE, Cis-1,2DCE trans-1,2 DCE, VC

PLEASE SEND RESULTS TO bwilken@craworld.com chernandez@craworld.com

7 Turnaround Time Requested (TAT) (please circle)

Standard | 5 day | 4 day | 72 hour | 48 hour | 24 hour

8 Data Package Options (please circle if required)

Type I - Full | Type VI (Raw Data)

Relinquished by	Date	Time	Received by	Date	Time
BELEW YIFRU	6/5/14	18:00	SECURE LOCATION	6/5/14	18:00
[illegible]	6/6/14	13:08	[illegible]	06 JUN 14	1348
Relinquished by Commerical Carrier: [illegible] 06 JUN 14 1636			Received by: UPS		

~~UPS~~ ____ ~~FedEx~~ ____ ~~Other~~ ____

Temperature Upon Receipt 0.3 °C

Custody Seals Intact? Yes No

Lancaster Laboratories, Inc. • 2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300

The white copy should accompany samples to Lancaster Laboratories. The yellow copy should be retained by the client.

Issued by Dept. 40 Management 7050.01

6/7/14 9:00

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Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
µg	microgram(s)	**mg**	milligram(s)
mL	milliliter(s)	**L**	liter(s)
m3	cubic meter(s)	**µL**	microliter(s)
		pg/L	picogram/liter

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

Data Qualifiers:

C – result confirmed by reanalysis.

J - estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
A	TIC is a possible aldol-condensation product	**B**	Value is <CRDL, but ≥IDL
B	Analyte was also detected in the blank	**E**	Estimated due to interference
C	Pesticide result confirmed by GC/MS	**M**	Duplicate injection precision not met
D	Compound quantitated on a diluted sample	**N**	Spike sample not within control limits
E	Concentration exceeds the calibration range of the instrument	**S**	Method of standard additions (MSA) used for calculation
N	Presumptive evidence of a compound (TICs only)	**U**	Compound was not detected
P	Concentration difference between primary and confirmation columns >25%	**W**	Post digestion spike out of control limits
U	Compound was not detected	*****	Duplicate analysis not within control limits
X,Y,Z	Defined in case narrative	**+**	Correlation coefficient for MSA <0.995

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Measurement uncertainty values, as applicable, are available upon request.

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