

Mr. Barney Chan  
Alameda County Health Care Services  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502-6577

Re: **Vapor Probe Installation Report**  
Former Chevron Station 9-3322  
7225 Bancroft Blvd.  
Oakland, California  
ACEH Case No. RO274  
Cambria Project No. 31H-1806

Alameda County  
JUL 14 2005  
Environmental Health

Dear Mr. Chan:



On behalf of Chevron Products Company (Chevron), Cambria Environmental Technology Inc. (Cambria) has coordinated the installation of twelve discrete vapor probes at the site referenced above. This action was the result of a joint decision made by Cambria and Chevron to assess soil vapor conditions and evaluate potential health hazards to the adjacent residential properties. A site description, history and investigation results are presented below.

**SITE DESCRIPTION**

The site currently operates as a "Silver Gas" service station. It is located on a parcel bordered by Bancroft Avenue to the northeast, Halliday Avenue to the southwest, and 73<sup>rd</sup> Avenue to the southeast. The surrounding area is primarily residential with the Eastmont Mall located to the north across Bancroft Avenue. A Union 76 branded service station is located across Bancroft Avenue to the northeast. The site elevation is approximately 40 feet above mean sea level and the topography slopes gently towards San Francisco Bay, approximately two miles to the west. Arroyo Creek, the nearest surface body of water, is located approximately 1,300-feet south of the site. Currently, the site consists of three 10,000-gallon single-walled fiberglass underground storage tanks (USTs), five dispenser islands, and a small kiosk building (Figure 2). ChevronTexaco sold the property to Malwa Petroleum Sales, LLC (Malwa) in September 2000. Malwa sold the property to the current owners, Mike and Dean Najdawi, in July 2001.

**SITE BACKGROUND**

**1981 UST Removal and Replacement:** ChevronTexaco records indicate the current USTs were installed in 1981. These tanks represent at least the second generation of USTs at the site. In 1981, no regulations requiring soil or the groundwater sampling existed to document conditions associated with the fuel system. As a result, no records of 1981 site conditions are available.

**Cambria  
Environmental  
Technology, Inc.**

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**August 1996 Product Line Removal and Replacement:** In August 1996, Gettler-Ryan Inc. (G-R) of Dublin, California removed and replaced product piping at the site. Touchstone Developments of Santa Rosa, California collected compliance soil samples between 2 and 4 feet below grade (fbg). Samples taken beneath the product lines and USTs contained up to 500 milligrams per kilogram (mg/kg) total petroleum hydrocarbons as gasoline (TPHg) and 4.2 mg/kg benzene in the vicinity of the center pump island. Either non-detected or low hydrocarbon concentrations were observed in all other samples. Records indicate that approximately 300 cubic yards of soil and pea gravel were excavated during line removal activities. The excavated soil and pea gravel were transported by Allwaste Transportation and Remediation, Inc. to Redwood Landfill in Novato, California. The removed product piping was disposed of by Erickson, Inc. in Richmond, California.

**January 1998 Well Installation:** In January 1998, G-R observed Bay Area Exploration Services, Inc. (BAES) install three 2-inch diameter monitoring wells MW-1 through MW-3. Maximum TPHg and benzene concentrations in soil were detected at concentrations of 23 mg/kg and 0.053 mg/kg, respectively, in MW-1 at 15 fbg. TPHg was detected in all groundwater samples from 24,000 (MW-2) to 130,000 (MW-1) micrograms per liter ( $\mu\text{g/l}$ ). Benzene was also detected in all groundwater samples up to 12,000  $\mu\text{g/l}$  (MW-3). Methyl tertiary butyl ether (MTBE) was detected in groundwater samples from MW-2 and MW-3 at 2,300 and 8,000  $\mu\text{g/l}$ , respectively. Soil cuttings were transported by Integrated Wastestream Management (IWM) of Milpitas, California for disposal at Republic Services Landfill in Livermore, California.

**July 1998 Well Survey:** In July 1998, G-R conducted a search of California Department of Water Resources records to identify domestic and municipal supply wells within a 0.5-mile radius of the site. Seven wells were located within the search area but none were identified as domestic or municipal wells.

**January 1999 Well Installation:** In January 1999, G-R observed BAES install 2-inch diameter monitoring wells MW-4 through MW-6 to further define the extent of hydrocarbons in soil and groundwater beneath the site. No hydrocarbons were detected in soil samples from any of the three wells. However, groundwater from MW-6, located downgradient of MW-3 contained 14,000 and 5,600  $\mu\text{g/l}$ , TPHg and benzene, respectively. Drill cuttings were transported by IWM to Republic Services Landfill, in Livermore, California.

**July 2000 Baseline Investigation:** In July 2000, Cambria observed Vironex Inc. of San Leandro, California, advance soil borings B-1 and B-2 and install monitoring well MW-7. The purpose of the

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investigation was to provide information of environmental conditions beneath the site at the time of property transfer. Boring B-2 contained the highest TPHg and benzene concentrations of 140 and 0.88 mg/kg, respectively, in a soil sample collected from 18 fbg. MTBE was initially detected in boring B-2 at 18 fbg at 1.7 mg/kg by EPA Method 8020, but was not confirmed by EPA Method 8260B analysis. The highest TPHg and benzene concentrations detected in groundwater were 11,000 and 4,300 µg/l, respectively, in well MW-7. Maximum MTBE in groundwater at 2,000 µg/l was detected in boring B-1 by EPA Method 8260B. No groundwater sample was collected from boring B-2 due to low flow conditions.



**September 2000 Additional Baseline Investigation:** In September 2000, Cambria observed V&W Drilling of Hayward, California advance borings SB-4 through SB-6. The purpose of this investigation was to provide additional environmental data to satisfy real estate and lending requirements of the station operator for purchase of site facilities. No MTBE was detected in soil samples analyzed by EPA Method 8260B. Boring SB-5 contained the highest concentrations of TPHg and benzene at 1,400 and 3.1 mg/kg, respectively, in a sample collected at 24 fbg. No groundwater samples were collected from borings SB-4 through SB-6.

## SITE CONDITIONS


**Soil Lithology:** The site is underlain primarily by interbedded clay, silt, and gravel. Fine grained materials consisting of clay to sandy clay exist between the surface and 11 to 15 fbg. Clayey gravel grading to sandy gravel underlies the clay layer to approximately 36.5 fbg, the maximum depth explored. A five-foot thick silt layer was observed during installation of wells MW-3 through MW-6 from 20 to 25 fbg, along the northwestern portion of the property.

**Groundwater:** The site is located within the East Bay Plain groundwater basin. Groundwater usually occurs between 13 and 20 fbg, but has been measured from 7 to 22 fbg. General groundwater flow direction varies from north to northwest, at an average gradient of 0.08 ft/ft.

**Hydrocarbon Concentrations in Groundwater:** Separate phase hydrocarbons (SPH) have been observed on the water table in well MW-1 since June 1999 at a maximum thickness of 0.52 ft, in the First Quarter sampling and monitoring event of 2005. A sample of the SPH from well MW-1 has been fingerprinted as pre-1992 leaded gasoline. The highest TPHg concentration detected in groundwater was 370,000 µg/l, seen in well MW-1 in July 1998, prior to the occurrence of SPH. With the exception of two detections of MTBE, no hydrocarbons have ever been detected in well MW-4, downgradient of MW-1. This suggests that groundwater migration beneath the site is minimal. Wells MW-4 through MW-6 are located along the down-gradient property boundary. Well

MW- 5 has had very few, inconsistent detections of TPHg, benzene and MTBE, most recently 6.3 ug/l MTBE in November 2002. Well MW-6, located down-gradient of well MW-3, has contained up to 25,000, 8,800 and 2,930 ug/l TPHg, benzene and MTBE, respectively. First Quarter 2005 concentrations in well MW-6 are 130, 8 and 60 ug/l TPHg, benzene and MTBE, respectively.

## INVESTIGATION RESULTS



The objective of this investigation was to collect data to construct a horizontal and vertical profile of vapor concentrations along the down-gradient property boundary and in the area of recurring SPH. To meet this objective, Cambria hand-augered four soil borings and installed three soil vapor probes in each boring. These were augered and installed along the downgradient property boundary and near well MW-1, the area of greatest hydrocarbon impact to groundwater. Boring logs are presented in Attachment A and laboratory analytic results for soil and soil vapor are presented in Attachment B.

## VAPOR PROBE CONSTRUCTION AND INSTALLATION

**Project Personnel:** Senior Staff Scientist Melissa Terry and Staff Geologist Charlotte Evans conducted vapor probe installations, and Senior Staff Scientist Ed Giacometti and Staff Geologist Charlotte Evans conducted soil vapor sampling under the supervision of Professional Geologist Robert Foss.

**Permits:** Alameda County Public Works Agency drilling permit number W05-0255 (Attachment C).

**Drilling Company:** Gregg Drilling & Testing, Inc. of Martinez, California.

**Drilling Dates:** March 16-17, 2005.

**Number of Borings:** Four vapor probe locations (VP-1 through VP-4). These locations are shown on Figure 2.

**Drilling Method:** Hand auger.

**Well Materials:** Vapor probes VP-1 through VP-4 were constructed using 1 foot-long sections of 1/4 -inch diameter, schedule 40 PVC well casing with 0.010 inch screen size. These pipe sections were capped on both ends using PVC pipe caps. One cap was drilled and tapped to allow for the installation of a compression fitting. Nylaflo® tubing was inserted in the compression

fitting and the assembly was lowered into the boring to the specified depth, with the tubing terminating above grade. Monterey sand #2/16 was added to the borehole around the probes as a filter pack. Bentonite with neat cement was used as a seal between filter pack layers.

**Screened Interval:** Vapor probes installed at locations VP-1 through VP-4 were constructed with multiple screened intervals of 5.0-6.5, 7.5-9.0, and 10.0-11.5 fbg.

**Site Hydrogeology:** The site is predominantly underlain by clayey silts and silty clays to an approximate depth of 15 fbg. A sand unit occurs beneath the silts and clays to an approximate depth of 20 fbg. Underlying this sandy unit are silts and clays to the maximum depth explored. The boring logs are presented in Attachment A.



### **Soil Sampling**

**Technique:** Disturbed hand augured soil samples were collected from borings VP-1 through VP-4 at depths of 5.0 and 10.0 fbg. All samples were labeled, placed on ice, and transported to Lancaster Laboratories following prescribed chain of custody procedures.

### **Soil Vapor Sampling**

**Technique:** A 30-minute flow meter and a 1-liter Summa™ canister were connected at each vapor probe sampling point. A battery powered air pump with attached vacuum-chamber and Tedlar bag was used to purge an appropriate volume from the sampling point tubing. A closed circuit system was created by attaching the Summa™ canister in succession with the vacuum pump prior to connecting to the vapor probe.

After purging, the valve between the Summa™ canister and the purge pump was closed and the Summa™ canister valve was opened. The vacuum of the Summa™ canister was used to draw the soil vapor through the flow controller until a negative pressure of approximately 5-inches of Hg was observed on the vacuum gauge.

In accordance with the Department of Toxic Substances Control (DTSC) Advisory-Active Soil Gas Investigations guidance document, dated January

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28, 2003, leak testing was performed during sampling. Paper towels soaked in isopropanol (a.k.a. 2-propanol) were placed at the sample system connections.

**Sample Screening:** A photo-ionization detector and field observations were used to screen samples from all borings in order to determine which samples would be analyzed for chemical data.

**Laboratory Analysis:** Soil samples were analyzed for:

- Total Petroleum Hydrocarbons as gasoline (TPHg) by modified EPA Method 8015;
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX) and methyl tertiary butyl ether (MTBE) by EPA Method 8260.

Soil vapor samples were analyzed for:

- Total Petroleum Hydrocarbons as gasoline (TPHg), benzene, toluene, ethylbenzene, and total xylenes (BTEX) and methyl tertiary butyl ether (MTBE) by modified EPA Method TO-15.
- Oxygen and carbon dioxide by modified EPA Method ASTM D-1946.


**Depth to Water:** Groundwater was purposely not encountered during drilling and probe installation.

**Soil Disposal:** Cuttings from the borings were stored in drums onsite and removed by IWM to an approved Chevron disposal site.

## HYDROCARBON RESULTS FOR SOIL

No TPHg was detected in any of the soil samples. Benzene was detected in soil borings VP-1, VP-3, and VP-4, with the highest concentration in VP-4 at 5 fbg of 0.0008 mg/kg. MTBE was detected in borings VP-1 and VP-4 with the highest concentration of 0.001 mg/kg in both borings. Soil analytic results are presented in Table 1.

## HYDROCARBON RESULTS FOR VAPORS



On April 21-22, 2005, vapor probes at locations VP-1 through VP-4 were sampled. Both VP-1 and VP-4 were sampled at all depths. VP-2 was sampled only at 7.5 fbg and VP-3 was sampled at 5 and 7.5 fbg because of groundwater or irrigation water infiltration in the other probes. Purging was conducted at a rate of approximately 0.5 liters per second (L/sec) and sampling was conducted at a rate of approximately 0.05L/sec. Vapor samples were collected in Summa™ canisters after removing approximately three purge volumes from each discrete interval. TPHg vapors from VP-1 collected during this sampling event ranged from 6,300 to 79,000  $\mu\text{g}/\text{m}^3$ , decreasing in concentration with depth. No benzene was detected in VP-1. MTBE vapors were detected in VP-1 from 280 to 660  $\mu\text{g}/\text{m}^3$ , decreasing in concentration with depth. VP-1 was the only probe point to pass the leak test. For VP-2 and VP-3, both of which failed the leak test and are closest to residential properties, TPHg vapors ranged from 36,000 to 2,300,000  $\mu\text{g}/\text{m}^3$ . No benzene or MTBE vapors were detected in VP-2 or VP-3. For VP-4, which also failed the leak test, located near MW-1, TPHg vapors ranged from 280,000 to 1,800,000  $\mu\text{g}/\text{m}^3$ , decreasing with depth. The only detection of benzene vapors collected during this investigation was 41  $\mu\text{g}/\text{m}^3$  from vapor probe VP-4 at 10 fbg. MTBE vapors were detected in VP-4 at 5 and 7.5 fbg, 220 and 340  $\mu\text{g}/\text{m}^3$ , respectively. Since VP-2 through VP-4 failed the leak test, the soil vapor samples may have been exposed to atmospheric air, likely invalidating the information obtained from them. Soil vapor analytic results are presented in Table 2, comparison to San Francisco Regional Quality Water Control Board (SFRWQCB) environmental screening levels for shallow soil gas screening levels as presented in *Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater, Interim Final* dated February, 2005 are presented in Table 3, and leak check results for soil vapor testing are presented in Table 4.

## CONCLUSIONS

Cambria installed the necessary vapor probes to determine potential health hazards from soil vapor intrusion to nearby residential properties. Due to the fact that the majority of the samples were above the allowable limit for isopropanol, thereby failing the leak test, Cambria has made adjustments to the vapor sampling equipment by replacing the nylon tubing connections with metal tubing. We are confident that these modifications and subsequent sampling procedures will provide us with more reliable data to be analyzed by Chevron's risk evaluation specialists. We are scheduled to resample on July 20-21, 2005 and will submit those results approximately four to six weeks after receiving the analytic data.

**CLOSING**

Please contact either Charlotte Evans at (510) 420-3351 or Robert Foss at (510) 420-3348 with any questions or comments regarding this report.

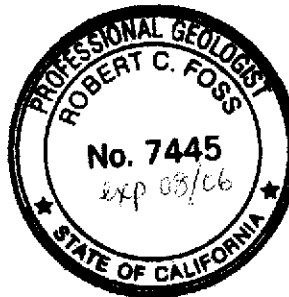
Sincerely,

**Cambria Environmental Technology, Inc.**



Charlotte Evans  
Staff Geologist

Robert Foss, P.G. #7445  
Associate Geologist



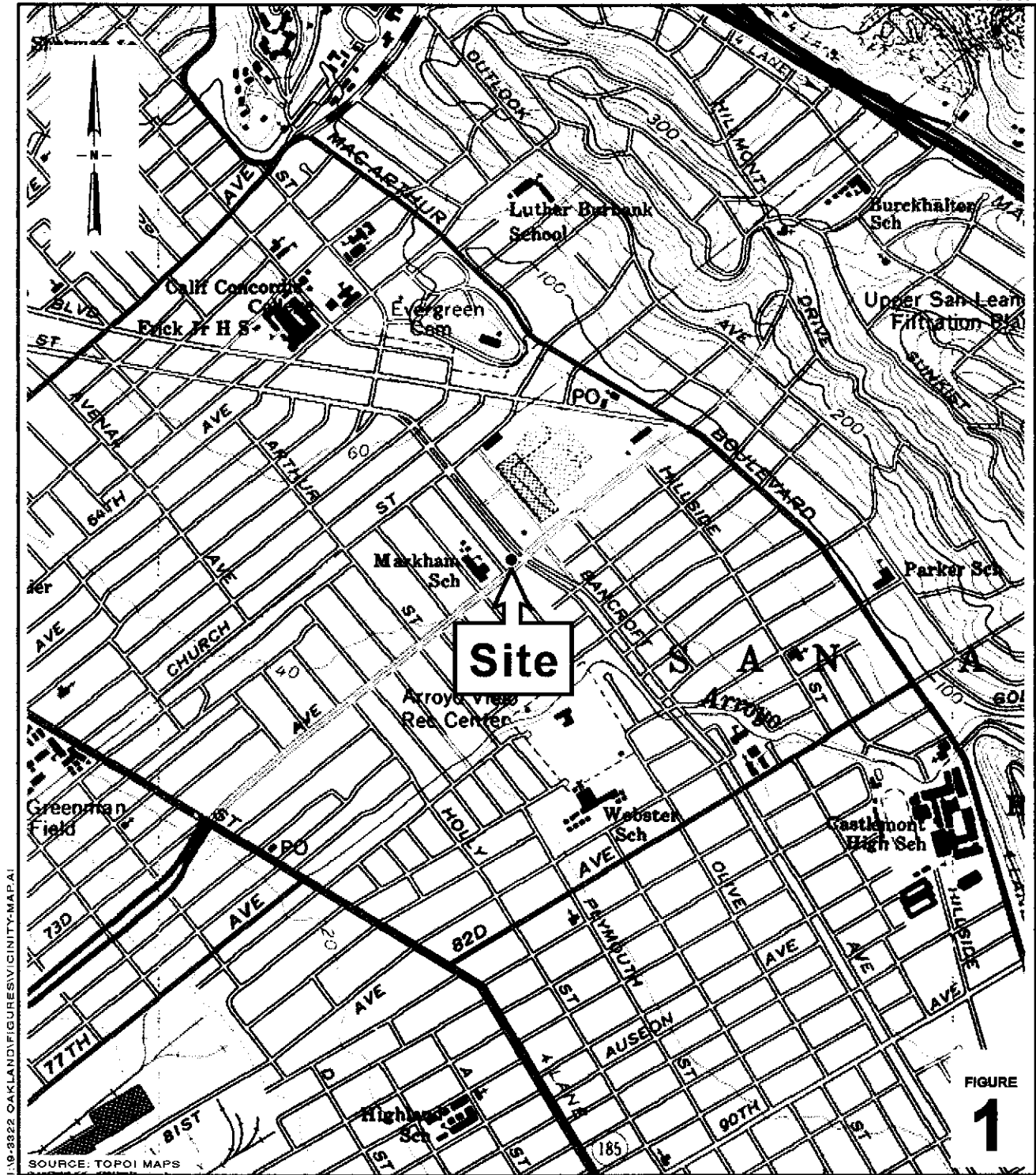
Figures            1 - Site Vicinity Map  
                      2 - Site Plan

Tables             1 - Soil Analytic Results  
                      2 - Soil Vapor Analytic Results  
                      3 - Soil Vapor Analytic Results Compared to RWQCB ESLs  
                      4 - Leak Test Results

Attachments:    A - Boring Logs  
                      B - Laboratory Soil and Soil Vapor Analytic Results  
                      C - Alameda County Public Works Agency drilling permit

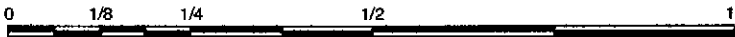
cc:                 Mark Inglis, ChevronTexaco Corporation, P.O. Box 6004, San Ramon, CA 94583





1:9-3322 OAKLAND FIGURE VICINITY-MAP.A1

SOURCE: TOPOI MAPS



SCALE : 1" = 1/4 MILE

**Chevron Service Station 9-3322**

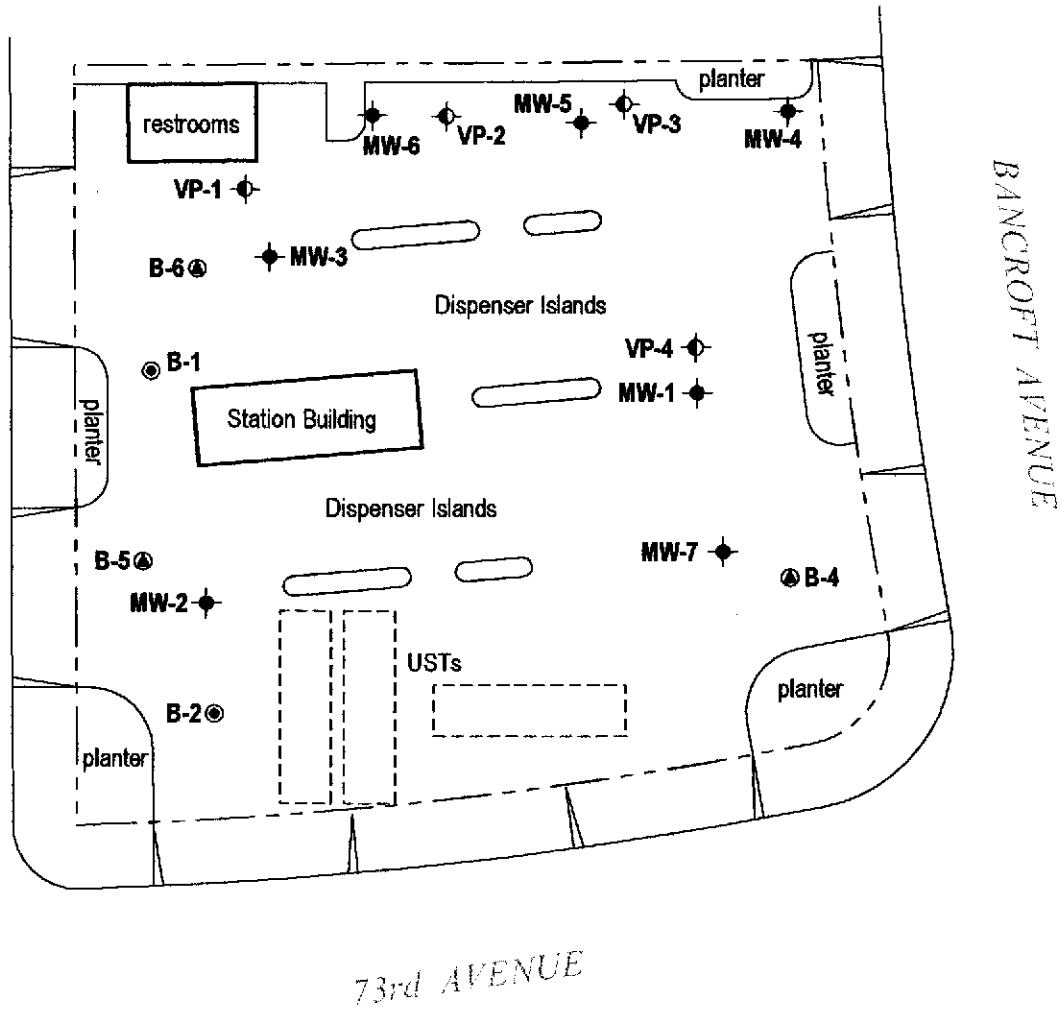
7225 Bancroft Avenue

Oakland, California



**Vicinity Map**

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EXPLANATION	
MW-1	Monitoring well location
VP-1	Vapor probe location
SB-1	Previous soil boring location
SB-4	Soil boring location from September 25, 2000 investigation

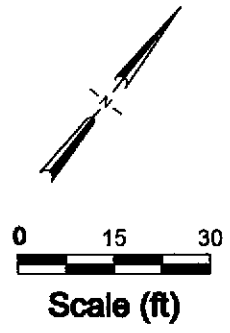


FIGURE 2

IN:\3325\STATION\9-3322\PLAN.DWG

**Chevron Service Station 9-3322**  
 7225 Bancroft Avenue  
 Oakland, California



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Site Plan

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**Table 1. Analytic Results for Soil - Former Chevron Station 9-3322, 7225 Bancroft Ave., Oakland, CA**

Sample ID	Sample Date	Sample Depth (fbg)	TPHg	B	T	E	X	MTBE	EDC	EDB
Concentrations reported in milligrams per kilograms - mg/kg										
VP-1	04/21/05	5.0	<1.0	<b>0.0006</b>	<b>0.001</b>	<0.001	<b>0.001</b>	<b>0.001</b>	<b>0.002</b>	<0.001
VP-1	04/21/05	10.0	<1.0	<0.0005	<0.001	<0.001	<0.001	<b>0.0005</b>	<0.001	<0.001
VP-2	04/22/05	5.0	<1.0	0.0007	<0.001	<0.001	<b>0.001</b>	<0.0005	<0.001	<0.001
VP-2	04/22/05	10.0	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.001	<0.001
VP-3	04/22/05	5.0	<1.0	<b>0.0007</b>	<b>0.002</b>	<b>0.001</b>	<b>0.005</b>	<0.0005	<0.001	<0.001
VP-3	04/22/05	10.0	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.001	<0.001
VP-4	04/22/05	5.0	<1.0	<b>0.0008</b>	<b>0.002</b>	<b>0.001</b>	<b>0.007</b>	<0.0005	<0.001	<0.001
VP-4	04/22/05	10.0	<1.0	<0.0005	<0.001	<0.001	<0.001	<b>0.001</b>	<0.001	<0.001

**Abbreviations/Notes:**

Total Petroleum Hydrocarbons as gasoline (TPHg) by modified EPA Method 8015.

Benzene, Toluene, Ethylbenzene, Xylenes and MTBE by EPA Method 8020

EDC = 1,2-Dichloroethane

EDB = Ethylene Dibromide

<x = Not detected above method detection limit.

fbg = Feet below grade.

# CAMBRIA

**Table 2. Analytic Results for Soil Vapor - Former Chevron Station 9-3322, 7225 Bancroft Ave., Oakland, CA**

Sample ID	Sample Date	Probe Depth Interval (fbg)	Sample Collection Time (minutes)	TPHg	B	T	E	X	MTBE	Oxygen (% volume)	Carbon dioxide (% volume)
					Concentrations reported in micrograms per cubic meter - $\mu\text{g}/\text{m}^3$						
VP-1	04/21/05	5.0-6.5	19	<b>79,000</b>	<33	<b>49</b>	<45	<45 <sup>a</sup>	<b>660</b>	9.2	0.9
VP-1	04/21/05	7.5-9.0	9	<b>11,000</b>	<39	<46	<54	<54 <sup>a</sup>	<b>570</b>	7.6	8.2
VP-1	04/21/05	10.0-11.5	10	<b>6,300</b>	<39	<46	<54	<54 <sup>a</sup>	<b>280</b>	8.1	9.3
VP-2	04/22/05	5.0-6.5	NS	NS	NS	NS	NS	NS	NS	NS	NS
VP-2	04/22/05	7.5-9.0	5	<b>49,000</b>	<39	<46	<54	<54 <sup>a</sup>	<44	7.8	5.5
VP-2*	04/22/05	7.5-9.0	6	<b>50,000</b>	<36	<42	<49	<49 <sup>a</sup>	<40	7	5.9
VP-2	04/22/05	10.0-11.5	NS	NS	NS	NS	NS	NS	NS	NS	NS
VP-3	04/22/05	5.0-6.5	5	<b>36,000</b>	<39	<46	<54	<54 <sup>a</sup>	<44	14	2.8
VP-3	04/22/05	7.5-9.0	5	<b>2,300,000</b>	<40	<48	<55	<55 <sup>a</sup>	<46	21	0.2
VP-3	04/22/05	10.0-11.5	NS	NS	NS	NS	NS	NS	NS	NS	NS
VP-4	04/22/05	5.0-6.5	7	<b>1,800,000</b>	<39	<b>97</b>	<54	<b>97<sup>1</sup></b>	<b>220</b>	13	6.0
VP-4	04/22/05	7.5-9.0	4	<b>1,300,000</b>	<39	<b>99</b>	<54	<b>110<sup>1</sup></b>	<b>340</b>	15	5.5
VP-4	04/22/05	10.0-11.5	6	<b>280,000</b>	<40	<b>48</b>	<55	<55 <sup>a</sup>	<46	21	0.2
VP-4**	04/22/05	10.0-11.5		<b>270,000</b>	<b>41</b>	<48	<55	<55 <sup>a</sup>	<46	NA	NA

**Table 2. Analytic Results for Soil Vapor - Former Chevron Station 9-3322, 7225 Bancroft Ave., Oakland, CA**

Sample ID	Sample Date	Probe Depth Interval (fbg)	Sample Collection Time (minutes)	TPHg	B	T	E	X	MTBE	Oxygen (% volume)	Carbon dioxide (% volume)
				Concentrations reported in micrograms per cubic meter - $\mu\text{g}/\text{m}^3$							

**Abbreviations/Notes:**

Total petroleum hydrocarbons as gasoline (TPHg), benzene, toluene, ethylbenzene and xylenes (BTEX) and oxygenates including methyl tertiary butyl ether (MTBE) by Modified EPA T0-14A.

Oxygen and carbon dioxide by ASTM D-1946M.

<x = Not detected above method detection limit.

fbg = Feet below grade.

NA = Not analyzed.

NS = Not sampled; screened interval submerged.

1 = Values for m,p-Xylenes only. No o-Xylenes detected in any sample.

\* = Field duplicate collected simultaneously with original sample.

\*\* = Lab method duplicate.

<sup>a</sup> = Values for all Xylenes

**Table 3. Analytic Results for Soil Vapor Compared to ESLs for Shallow Soil Gas - Former Chevron Station 9-0260, 21995 Foothill Blvd., Hayward**

Sample ID	Sample Date	Sample Depth (fbg)	TPHg	TPHg ESL	B	B ESL	T	T ESL	E	E ESL	X	X ESL	MTBE	MTBE ESL
Concentrations reported in micrograms per cubic meter - $\mu\text{g}/\text{m}^3$														
VP-1	04/21/05	5.0-6.5	<b>79,000</b>	26,000	<33	85	<b>49</b>	63,000	<45	420,000	<45 <sup>a</sup>	150,000	<b>660</b>	9,400
VP-1	04/21/05	7.5-9.0	<b>11,000</b>	26,000	<39	85	<46	63,000	<54	420,000	<54 <sup>a</sup>	150,000	<b>570</b>	9,400
VP-1	04/21/05	10.0-11.5	<b>6,300</b>	26,000	<39	85	<46	63,000	<54	420,000	<54 <sup>a</sup>	150,000	<b>280</b>	9,400
VP-2	04/22/05	5.0-6.5	NS	26,000	NS	85	NS	63,000	NS	420,000	NS	150,000	NS	9,400
VP-2	04/22/05	7.5-9.0	<b>49,000</b>	26,000	<39	85	<46	63,000	<54	420,000	<54 <sup>a</sup>	150,000	<44	9,400
VP-2*	04/22/05	7.5-9.0	<b>50,000</b>	26,000	<36	85	<42	63,000	<49	420,000	<49 <sup>b</sup>	150,000	<40	9,400
VP-2	04/22/05	10.0-11.5	NS	26,000	NS	85	NS	63,000	NS	420,000	NS	150,000	NS	9,400
VP-3	04/22/05	5.0-6.5	<b>36,000</b>	26,000	<39	85	<46	63,000	<54	420,000	<54 <sup>a</sup>	150,000	<44	9,400
VP-3	04/22/05	7.5-9.0	<b>2,300,000</b>	26,000	<40	85	<48	63,000	<55	420,000	<55 <sup>a</sup>	150,000	<46	9,400
VP-3	04/22/05	10.0-11.5	NS	26,000	NS	85	NS	63,000	NS	420,000	NS	150,000	NS	9,400
VP-4	04/22/05	5.0-6.5	<b>1,800,000</b>	26,000	<39	85	<b>97</b>	63,000	<54	420,000	<b>97<sup>1</sup></b>	150,000	<b>220</b>	9,400
VP-4	04/22/05	7.5-9.0	<b>1,300,000</b>	26,000	<39	85	<b>99</b>	63,000	<54	420,000	<b>110<sup>1</sup></b>	150,000	<b>340</b>	9,400
VP-4	04/22/05	10.0-11.5	<b>280,000</b>	26,000	<40	85	<b>48</b>	63,000	<55	420,000	<55 <sup>a</sup>	150,000	<46	9,400
VP-4**	04/22/05	10.0-11.5	<b>270,000</b>	26,000	<b>41</b>	85	<48	63,000	<55	420,000	<55 <sup>a</sup>	150,000	<46	9,400

**Table 3. Analytic Results for Soil Vapor Compared to ESLs for Shallow Soil Gas - Former Chevron Station 9-0260, 21995 Foothill Blvd., Hayward**

Sample ID	Sample Date	Sample Depth (fbg)	TPHg	TPHg ESL	B	B ESL	T	T ESL	E	E ESL	X	X ESL	MTBE	MTBE ESL
Concentrations reported in micrograms per cubic meter - $\mu\text{g}/\text{m}^3$														

**Abbreviations/Notes:**

Total petroleum hydrocarbons as gasoline (TPHg), benzene, toluene, ethylbenzene and xylenes (BTEX) and oxygenates including methyl tertiary butyl ether (MTBE) by Modified EPA T0-14A.

Oxygen and carbon dioxide by ASTM D-1946M.

<x = Not detected above method detection limit.

fbg = Feet below grade.

NS = Not sampled; screened interval submerged.

1 = Values for m,p-Xylenes only. No o-Xylenes detected in any sample.

\* = Field duplicate collected simultaneously with original sample.

\*\* = Lab method duplicate.

<sup>a</sup> = Values for all Xylenes

ESL = Environmental screening level.

ESL values are for shallow (<5 fbg) soil gas for evaluation of indoor air impacts for the lowest residential exposure. Assumes very permeable material.

ESL values for deep (>5 fbg) soil gas for evaluation of indoor air impacts should be carried out on a site-specific basis.

All ESL values and information taken from the RWQCB-SFBR's *Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater*, dated February, 2005.

# CAMBRIA

**Table 4. Leak Check Results - Former Chevron Station 9-0260, 21995 Foothill Blvd., Hayward**

Sample ID	Sample Date	Probe Depth Interval (fbg)	Sample Collection Time (minutes)	TPHg	2-propanol	Pass/Fail	Concentrations reported in micrograms per cubic meter - $\mu\text{g}/\text{m}^3$				
							B	T	E	X	MTBE
VP-1	04/21/05	5.0-6.5	19	<b>79,000</b>	170	<b>P</b>	<33	<b>49</b>	<45	<45 <sup>a</sup>	<b>660</b>
VP-1	04/21/05	7.5-9.0	9	<b>11,000</b>	450	<b>P</b>	<39	<46	<54	<54 <sup>a</sup>	<b>570</b>
VP-1	04/21/05	10.0-11.5	10	<b>6,300</b>	850	<b>P</b>	<39	<46	<54	<54 <sup>a</sup>	<b>280</b>
VP-2	04/22/05	5.0-6.5	NS	NS	NS	NS	NS	NS	NS	NS	NS
VP-2	04/22/05	7.5-9.0	5	<b>49,000</b>	<b>110,000<sup>E</sup></b>	<b>F</b>	<39	<46	<54	<54 <sup>a</sup>	<44
VP-2*	04/22/05	7.5-9.0	6	<b>50,000</b>	<b>110,000<sup>E</sup></b>	<b>F</b>	<36	<42	<49	<49 <sup>a</sup>	<40
VP-2	04/22/05	10.0-11.5	NS	NS	NS	NS	NS	NS	NS	NS	NS
VP-3	04/22/05	5.0-6.5	5	<b>36,000</b>	<b>79,000<sup>E</sup></b>	<b>F</b>	<39	<46	<54	<54 <sup>a</sup>	<44
VP-3	04/22/05	7.5-9.0	5	<b>2,300,000</b>	<b>&gt;1,000,000<sup>S</sup></b>	<b>F</b>	<40	<48	<55	<55 <sup>a</sup>	<46
VP-3	04/22/05	10.0-11.5	NS	NS	NS	NS	NS	NS	NS	NS	NS
VP-4	04/22/05	5.0-6.5	7	<b>1,800,000</b>	<b>&gt;650,000<sup>S</sup></b>	<b>F</b>	<39	<b>97</b>	<54	<b>97<sup>1</sup></b>	<b>220</b>
VP-4	04/22/05	7.5-9.0	4	<b>1,300,000</b>	<b>&gt;420,000<sup>S</sup></b>	<b>F</b>	<39	<b>99</b>	<54	<b>110<sup>1</sup></b>	<b>340</b>
VP-4	04/22/05	10.0-11.5	6	<b>280,000</b>	<b>340,000<sup>E</sup></b>	<b>F</b>	<40	<b>48</b>	<55	<55 <sup>a</sup>	<46



**Table 4. Leak Check Results - Former Chevron Station 9-0260, 21995 Foothill Blvd., Hayward**

Sample ID	Sample Date	Probe Depth Interval (fbg)	Sample Collectio Time (minutes)	TPHg	2-propanol	Pass/Fail	B	T	E	X	MTBE
Concentrations reported in micrograms per cubic meter - $\mu\text{g}/\text{m}^3$											

**Abbreviations/Notes:**

Total petroleum hydrocarbons as gasoline (TPHg), benzene, toluene, ethylbenzene and xylenes (BTEX) and oxygenates including methyl tertiary butyl ether (MTBE) by Modified EPA T0-14A.

Oxygen and carbon dioxide by ASTM D-1946M.

<x = Not detected above method detection limit.

fbg = Feet below grade.

NA = Not analyzed.

NS = Not sampled; screened interval submerged.

l = Values for m,p-Xylenes only. No o-Xylenes detected in any sample.

\* = Field duplicate collected simultaneously with original sample.

\*\* = Lab method duplicate.

\* = Values for all Xylenes

E = Exceeds instrument calibration range.

S = Saturated peak; data reported as estimated

**ATTACHMENT A**

**Boring Logs**



Cambria Environmental Technology, Inc.  
 5900 Hollis St., Ste A  
 Emeryville, CA 94608  
 Telephone: (510) 420-0700  
 Fax: (510) 420-9170

# BORING/WELL LOG

CLIENT NAME	Chevron Products Company	BORING/WELL NAME	VP-1
JOB/SITE NAME	9-3322	DRILLING STARTED	17-Mar-05
LOCATION	7225 Bancroft Avenue, Oakland, CA	DRILLING COMPLETED	17-Mar-05
PROJECT NUMBER	31H-1806	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Gregg Drilling	GROUND SURFACE ELEVATION	Not Surveyed
DRILLING METHOD	Hand Augered	TOP OF CASING ELEVATION	Not Surveyed
BORING DIAMETER	6"	SCREENED INTERVAL	NA
LOGGED BY	Charlotte Evans	DEPTH TO WATER (First Encountered)	NA
REVIEWED BY	B. Foss, RG# 7445	DEPTH TO WATER (Static)	NA
REMARKS	Water not encountered.		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	WELL DIAGRAM
				0.5			Asphalt	0.5	
				5	ML		<b>Clayey SILT with sand:</b> Dark brown; dry; stiff; 50% silt, 45% clay, 5% sand; moderate plasticity; low estimated permeability.		
				6.5	ML		<b>Clayey SILT with sand:</b> Dark brown; dry; stiff; 60% silt, 35% clay, 5% sand; moderate plasticity; low estimated permeability.	6.5	
				7.0	ML		<b>Clayey SILT with sand:</b> Brown; dry; stiff; 70% silt, 20% clay, 10% sand; low plasticity; moderate estimated permeability.	7.0	
				8.0	MLS		<b>Clayey SILT with sand:</b> Brown; dry; stiff; 70% silt, 20% clay, 10% sand; low plasticity; moderate estimated permeability.	8.0	
				9.0	ML		<b>Sandy SILT with gravel:</b> Brown-orange; dry; stiff; 70% silt, 25% sand, 5% gravel; low plasticity; moderate to high estimated permeability.	9.0	
				10.3	ML		<b>Clayey SILT with sand:</b> Brown-orange with black mottling; dry; very stiff; 65% silt, 30% clay, 5% sand; moderate plasticity; low estimated permeability.	10.3	

WELL LOG (PID) 119-3322-1GINTY9-3322 VAPOR PROBES.GPJ DEFAULT.GDT 5/11/05



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# BORING/WELL LOG

CLIENT NAME	Chevron Products Company	BORING/WELL NAME	VP-2
JOB/SITE NAME	9-3322	DRILLING STARTED	17-Mar-05
LOCATION	7225 Bancroft Avenue, Oakland, CA	DRILLING COMPLETED	17-Mar-05
PROJECT NUMBER	31H-1806	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Gregg Drilling	GROUND SURFACE ELEVATION	Not Surveyed
DRILLING METHOD	Hand Augered	TOP OF CASING ELEVATION	Not Surveyed
BORING DIAMETER	6"	SCREENED INTERVAL	NA
LOGGED BY	Charlotte Evans	DEPTH TO WATER (First Encountered)	NA
REVIEWED BY	B. Foss, RG# 7446	DEPTH TO WATER (Static)	NA
REMARKS	Water not encountered.		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	WELL DIAGRAM
							Concrete	1.0	
					ML		<b>CLAY SILT with sand and gravel:</b> Dark brown; damp; moderately soft; 40% clay, 40% silt, 10% sand, 10% gravel; moderate plasticity; moderate estimated permeability.	2.5	
					GC		<b>CLAYEY GRAVEL with silt:</b> Grey brown; wet; 45% clay, 45% gravel, 10% silt; low plasticity; high estimated permeability.	3.0	
				5	ML		<b>Silty CLAY with sand:</b> Dark brown; damp; stiff; 60% clay, 35% silt, 10% sand; moderate plasticity; moderate estimated permeability.	6.0	
					ML		<b>Silty CLAY with sand:</b> Brown; damp; stiff; 60% clay, 35% silt, 10% sand; moderate plasticity; moderate estimated permeability.	9.0	
				10	MLS		<b>Sandy SILT with clay and gravel:</b> Brown-orange; damp; very stiff; 65% silt, 20% sand, 10% clay, 5% gravel; low plasticity; high estimated permeability.	11.5	

WELL LOG (PID) I:9-3322-1\GINT9-3322 VAPOR PROBES.GPJ DEFAULT.GDT 5/11/05



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# BORING/WELL LOG

CLIENT NAME	Chevron Products Company	BORING/WELL NAME	VP-3
JOB/SITE NAME	9-3322	DRILLING STARTED	17-Mar-05
LOCATION	7225 Bancroft Avenue, Oakland, CA	DRILLING COMPLETED	17-Mar-05
PROJECT NUMBER	31H-1806	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Gregg Drilling	GROUND SURFACE ELEVATION	Not Surveyed
DRILLING METHOD	Hand Augered	TOP OF CASING ELEVATION	Not Surveyed
BORING DIAMETER	6"	SCREENED INTERVAL	NA
LOGGED BY	Charlotte Evans	DEPTH TO WATER (First Encountered)	NA
REVIEWED BY	B. Foss, RG# 7445	DEPTH TO WATER (Static)	NA
REMARKS	Water not encountered.		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	WELL DIAGRAM
							Concrete	1.0	<ul style="list-style-type: none"> <li>▲ Portland Type I/II</li> <li>▲ Monterey Sand #2/12</li> <li>▲ Portland Type I/II</li> <li>▲ Monterey Sand #2/12</li> <li>▲ Portland Type I/II</li> <li>▲ Monterey Sand #2/12</li> </ul> <p>Bottom of Boring @ 11.5 ft</p>
				5	ML		<p><b>Clayey SILT with gravel:</b> Dark brown; dry; stiff; 55% silt, 40% clay, 5% gravel; moderate plasticity; moderate estimated permeability.</p>		
					ML		<p><b>CLAY SILT:</b> Dark brown; dry; 50% clay, 50% silt; moderate plasticity; low estimated permeability.</p>		
					ML		<p><b>Clayey SILT with sand:</b> Brown; dry; stiff; 55% silt, 40% clay, 5% sand; moderate plasticity; low estimated permeability.</p>		
					ML		<p><b>Clayey SILT with gravel and sand:</b> Brown-orange; dry; stiff; 55% silt, 30% clay, 10% gravel and 5% sand; low; moderate estimated permeability.</p>		
				10	ML		<p><b>Clayey SILT with sand and gravel:</b> Brown-orange; dry; stiff; 60% silt, 20% clay, 15% sand, 5% gravel; low plasticity; moderate estimated permeability.</p> <p><b>Clayey SILT with sand and gravel:</b> Brown-orange; dry; stiff; 50% silt, 30% clay, 15% sand, 5% gravel; low plasticity; moderate estimated permeability.</p>		

WELL LOG (PID) I:9-3322-1\GINT19-3322 VAPOR PROBES.GPJ DEFAULT.GDT 5/11/05



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# BORING/WELL LOG

CLIENT NAME	Chevron Products Company	BORING/WELL NAME	VP-4
JOB/SITE NAME	9-3322	DRILLING STARTED	16-Mar-05
LOCATION	7225 Bancroft Avenue, Oakland, CA	DRILLING COMPLETED	16-Mar-05
PROJECT NUMBER	31H-1806	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Gregg Drilling	GROUND SURFACE ELEVATION	Not Surveyed
DRILLING METHOD	Hand Augered	TOP OF CASING ELEVATION	Not Surveyed
BORING DIAMETER	6"	SCREENED INTERVAL	NA
LOGGED BY	Charlotte Evans	DEPTH TO WATER (First Encountered)	NA
REVIEWED BY	B. Foss, RG# 7445	DEPTH TO WATER (Static)	NA
REMARKS	Water not encountered.		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	WELL DIAGRAM
				0			Asphalt	1.0	
				5	ML		<b>Silty CLAY with sand:</b> Dark brown; dry; stiff; 50% clay, 45% silt, 5% sand; high plasticity; low estimated permeability.	7.0	
				7.0	ML		<b>Clayey SILT with sand:</b> Light brown; dry; stiff; 60% silt, 35% clay, 5% sand; moderate plasticity; moderate estimated permeability.	8.0	
				8.0	ML		<b>Clayey SILT with sand and gravel:</b> Brown-orange; dry; stiff; 50% silt, 35% clay, 10% sand, 5% gravel; moderate plasticity; moderate estimated permeability.	9.0	
				9.0	ML		<b>Silty CLAY with sand:</b> Brown-orange; dry; stiff; 50% clay, 45% silt, 5% sand; moderate plasticity; low estimated permeability.	10.0	
				10.0	ML		<b>Clayey SILT with gravel and sand:</b> Brown-orange; dry; stiff; 45% silt, 40% clay, 10% gravel, 5% sand; moderate plasticity; moderate estimated permeability.	11.5	

WELL LOG (PID) I:9-3322-1(GINT)S-3322 VAPOR PROBES.GPJ DEFAULT.GDT 5/11/05

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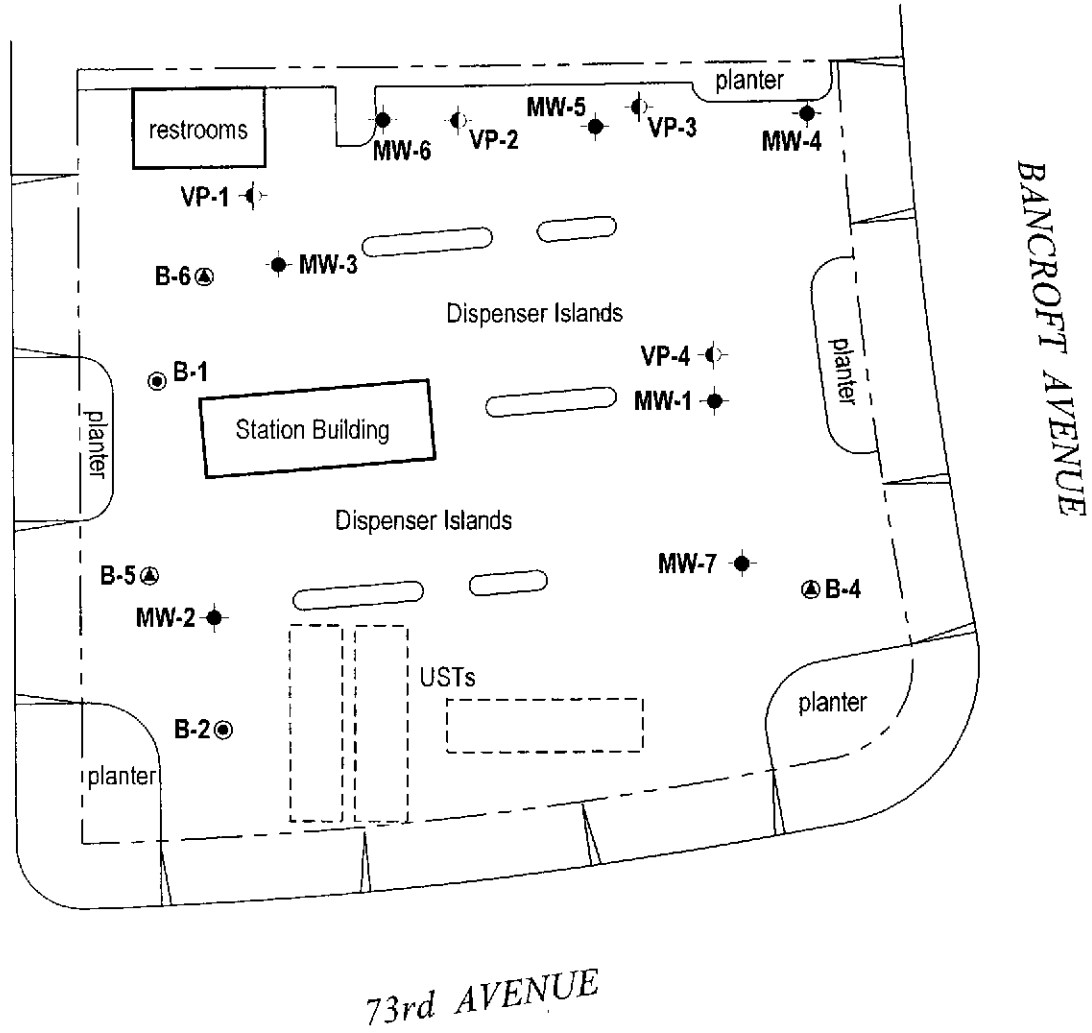
# BORING/WELL LOG

<b>CLIENT NAME</b>	Chevron Products Company	<b>BORING/WELL NAME</b>	VP-1
<b>JOB/SITE NAME</b>	9-3322	<b>DRILLING STARTED</b>	17-Mar-05
<b>LOCATION</b>	7225 Bancroft Avenue, Oakland, CA	<b>DRILLING COMPLETED</b>	17-Mar-05
<b>PROJECT NUMBER</b>	31H-1806	<b>WELL DEVELOPMENT DATE (YIELD)</b>	NA
<b>DRILLER</b>	Gregg Drilling	<b>GROUND SURFACE ELEVATION</b>	Not Surveyed
<b>DRILLING METHOD</b>	Hand Augered	<b>TOP OF CASING ELEVATION</b>	Not Surveyed
<b>BORING DIAMETER</b>	6"	<b>SCREENED INTERVAL</b>	NA
<b>LOGGED BY</b>	Charlotte Evans	<b>DEPTH TO WATER (First Encountered)</b>	NA
<b>REVIEWED BY</b>	B. Foss, RG# 7445	<b>DEPTH TO WATER (Static)</b>	NA
<b>REMARKS</b>	Water not encountered.		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	WELL DIAGRAM
				0.5			Asphalt	0.5	
				5	ML		<b>Clayey SILT with sand:</b> Dark brown; dry; stiff; 50% silt, 45% clay, 5% sand; moderate plasticity; low estimated permeability.	6.5	
				6.5	ML		<b>Clayey SILT with sand:</b> Dark brown; dry; stiff; 60% silt, 35% clay, 5% sand; moderate plasticity; low estimated permeability.	7.0	
				8.0	MLS		<b>Clayey SILT with sand:</b> Brown; dry; stiff; 70% silt, 20% clay, 10% sand; low plasticity; moderate estimated permeability.	8.0	
				9.0	ML		<b>Clayey SILT with sand:</b> Brown; dry; stiff; 70% silt, 20% clay, 10% sand; low plasticity; moderate estimated permeability.	9.0	
				10			<b>Sandy SILT with gravel:</b> Brown-orange; dry; stiff; 70% silt, 25% sand, 5% gravel; low plasticity; moderate to high estimated permeability.	10.3	
							<b>Clayey SILT with sand:</b> Brown-orange with black mottling; dry; very stiff; 65% silt, 30% clay, 5% sand; moderate plasticity; low estimated permeability.		

WELL LOG (PID) I:\9-3322-1\GINT19-3322 VAPOR PROBES.GPJ DEFAULT.GDT 5/11/05





EXPLANATION	
MW-1 ●	Monitoring well location
VP-1 ⊕	Vapor probe location
SB-1 ⊙	Previous soil boring location
SB-4 ⊕	Soil boring location from September 25, 2000 investigation

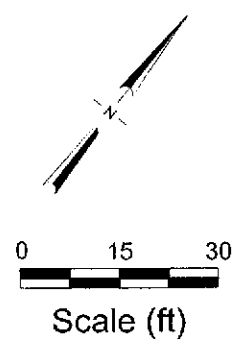


FIGURE 2

18-33276-CROSS-STEP-PLAN-06

**Chevron Service Station 9-3322**  
 7225 Bancroft Avenue  
 Oakland, California



C A M B R I A

**Site Plan**

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(WELL LOGS)

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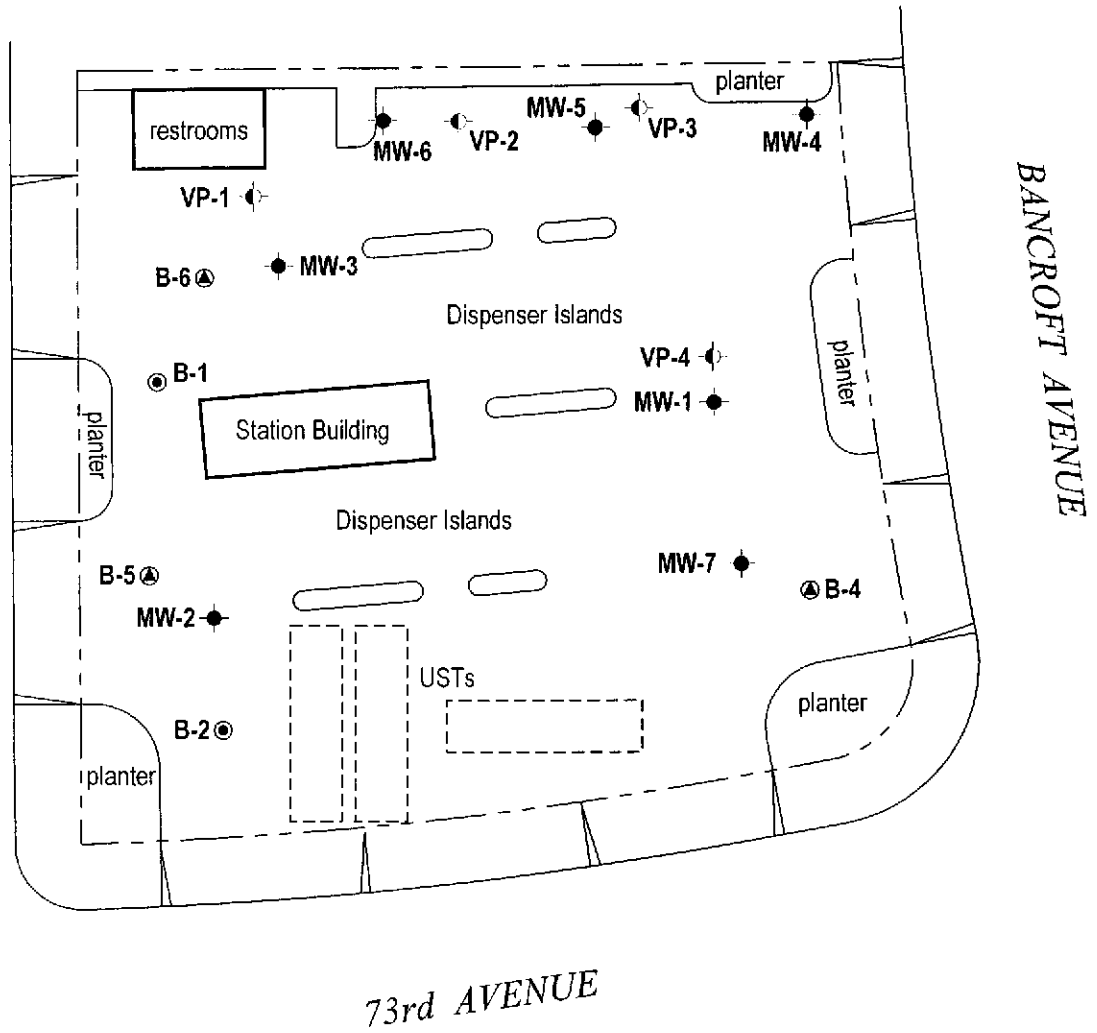
Cambria Environmental Technology, Inc.  
 5900 Hollis St., Ste A  
 Emeryville, CA 94608  
 Telephone: (510) 420-0700  
 Fax: (510) 420-9170

# BORING/WELL LOG

<b>CLIENT NAME</b>	Chevron Products Company	<b>BORING/WELL NAME</b>	VP-2
<b>JOB/SITE NAME</b>	9-3322	<b>DRILLING STARTED</b>	17-Mar-05
<b>LOCATION</b>	7225 Bancroft Avenue, Oakland, CA	<b>DRILLING COMPLETED</b>	17-Mar-05
<b>PROJECT NUMBER</b>	31H-1806	<b>WELL DEVELOPMENT DATE (YIELD)</b>	NA
<b>DRILLER</b>	Gregg Drilling	<b>GROUND SURFACE ELEVATION</b>	Not Surveyed
<b>DRILLING METHOD</b>	Hand Augered	<b>TOP OF CASING ELEVATION</b>	Not Surveyed
<b>BORING DIAMETER</b>	6"	<b>SCREENED INTERVAL</b>	NA
<b>LOGGED BY</b>	Charlotte Evans	<b>DEPTH TO WATER (First Encountered)</b>	NA
<b>REVIEWED BY</b>	B. Foss, RG# 7445	<b>DEPTH TO WATER (Static)</b>	NA
<b>REMARKS</b>	Water not encountered.		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	WELL DIAGRAM
				0			Concrete	1.0	
				2.5	ML		<b>CLAY SILT with sand and gravel:</b> Dark brown; damp; moderately soft; 40% clay, 40% silt, 10% sand, 10% gravel; moderate plasticity; moderate estimated permeability.	2.5	
				3.0	GC	3.0			
				5	ML		<b>CLAYEY GRAVEL with silt:</b> Grey brown; wet; 45% clay, 45% gravel, 10% silt, low plasticity; high estimated permeability.	6.0	
				6.0	ML		<b>Silty CLAY with sand:</b> Dark brown; damp; stiff; 60% clay, 35% silt, 10% sand; moderate plasticity; moderate estimated permeability.	6.0	
				9.0	ML		<b>Silty CLAY with sand:</b> Brown; damp; stiff; 60% clay, 35% silt, 10% sand; moderate plasticity; moderate estimated permeability.	9.0	
				10	MLS		<b>Sandy SILT with clay and gravel:</b> Brown-orange; damp; very stiff; 65% silt, 20% sand, 10% clay, 5% gravel; low plasticity; high estimated permeability.	11.5	
				11.5				11.5	
									Bottom of Boring @ 11.5 ft

WELL LOG (PID) I:\9-3322-1\GINTY9-3322\_VAPOR PROBES.GPJ DEFAULT.GDT 5/11/05



EXPLANATION	
MW-1	Monitoring well location
VP-1	Vapor probe location
SB-1	Previous soil boring location
SB-4	Soil boring location from September 25, 2000 investigation

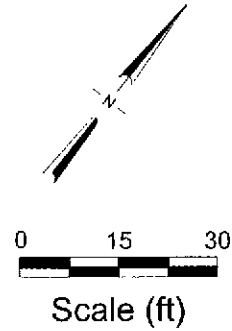


FIGURE  
**2**

19-3322-CHESS/STEP/LDNG

**Chevron Service Station 9-3322**  
7225 Bancroft Avenue  
Oakland, California



C A M B R I A

**Site Plan**

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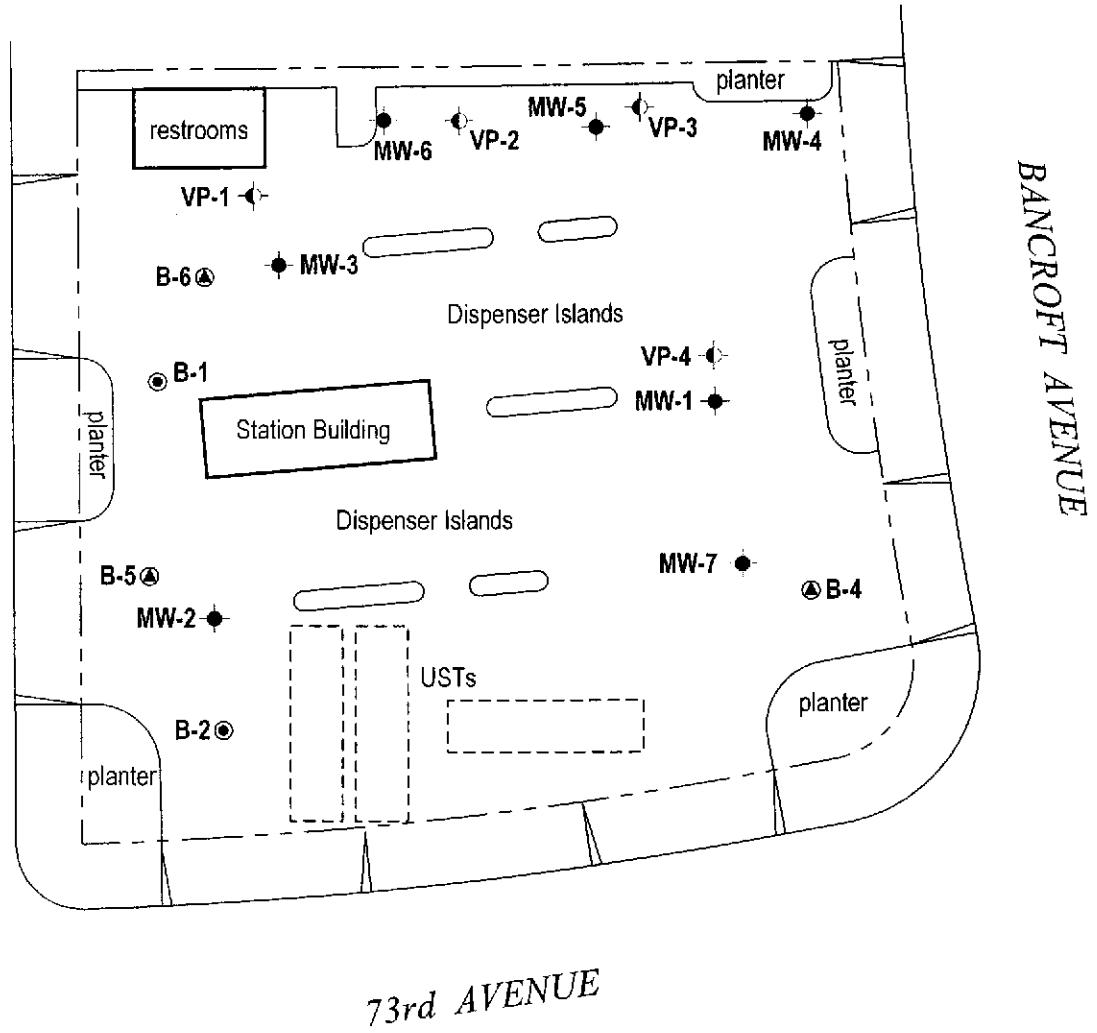
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 Emeryville, CA 94608  
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 Fax: (510) 420-9170

# BORING/WELL LOG

CLIENT NAME	Chevron Products Company	BORING/WELL NAME	VP-3
JOB/SITE NAME	9-3322	DRILLING STARTED	17-Mar-05
LOCATION	7225 Bancroft Avenue, Oakland, CA	DRILLING COMPLETED	17-Mar-05
PROJECT NUMBER	31H-1806	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Gregg Drilling	GROUND SURFACE ELEVATION	Not Surveyed
DRILLING METHOD	Hand Augered	TOP OF CASING ELEVATION	Not Surveyed
BORING DIAMETER	6"	SCREENED INTERVAL	NA
LOGGED BY	Charlotte Evans	DEPTH TO WATER (First Encountered)	NA
REVIEWED BY	B. Foss, RG# 7445	DEPTH TO WATER (Static)	NA
REMARKS	Water not encountered.		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	WELL DIAGRAM
							Concrete	1.0	
				5	ML		<b>Clayey SILT with gravel:</b> Dark brown; dry; stiff; 55% silt, 40% clay, 5% gravel; moderate plasticity; moderate estimated permeability.		
				5	ML		<b>CLAY SILT:</b> Dark brown; dry; 50% clay, 50% silt; moderate plasticity; low estimated permeability.	5.0	
				6.0	ML		<b>Clayey SILT with sand:</b> Brown; dry; stiff; 55% silt, 40% clay, 5% sand; moderate plasticity; low estimated permeability.	6.0	
				7.0	ML		<b>Clayey SILT with gravel and sand:</b> Brown-orange; dry; stiff; 55% silt, 30% clay, 10% gravel and 5% sand; low plasticity; moderate estimated permeability.	7.0	
				8.0	ML		<b>Clayey SILT with sand and gravel:</b> Brown-orange; dry; stiff; 60% silt, 20% clay, 15% sand, 5% gravel; low plasticity; moderate estimated permeability.	8.0	
				9.0	ML		<b>Clayey SILT with sand and gravel:</b> Brown-orange; dry; stiff; 50% silt, 30% clay, 15% sand, 5% gravel; low plasticity; moderate estimated permeability.	9.0	
				10	ML		<b>Clayey SILT with sand and gravel:</b> Brown-orange; dry; stiff; 50% silt, 30% clay, 15% sand, 5% gravel; low plasticity; moderate estimated permeability.	10.0	
				11.5				11.5	

WELL LOG (PID) I:\9-3322-1\CINTE9-3322 VAPOR PROBES.GPJ\_DEFAULT.GDT 5/1/05



EXPLANATION	
MW-1	Monitoring well location
VP-1	Vapor probe location
SB-1	Previous soil boring location
SB-4	Soil boring location from September 25, 2000 investigation

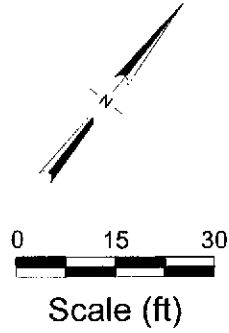


FIGURE 2

19-332P/6/RES/ST/EP/LAND/ING

**Chevron Service Station 9-3322**  
 7225 Bancroft Avenue  
 Oakland, California



C A M B R I A

**Site Plan**

**CONFIDENTIAL**

STATE OF CALIFORNIA DWR  
WELL COMPLETION REPORT  
(WELL LOGS)

**REMOVED**





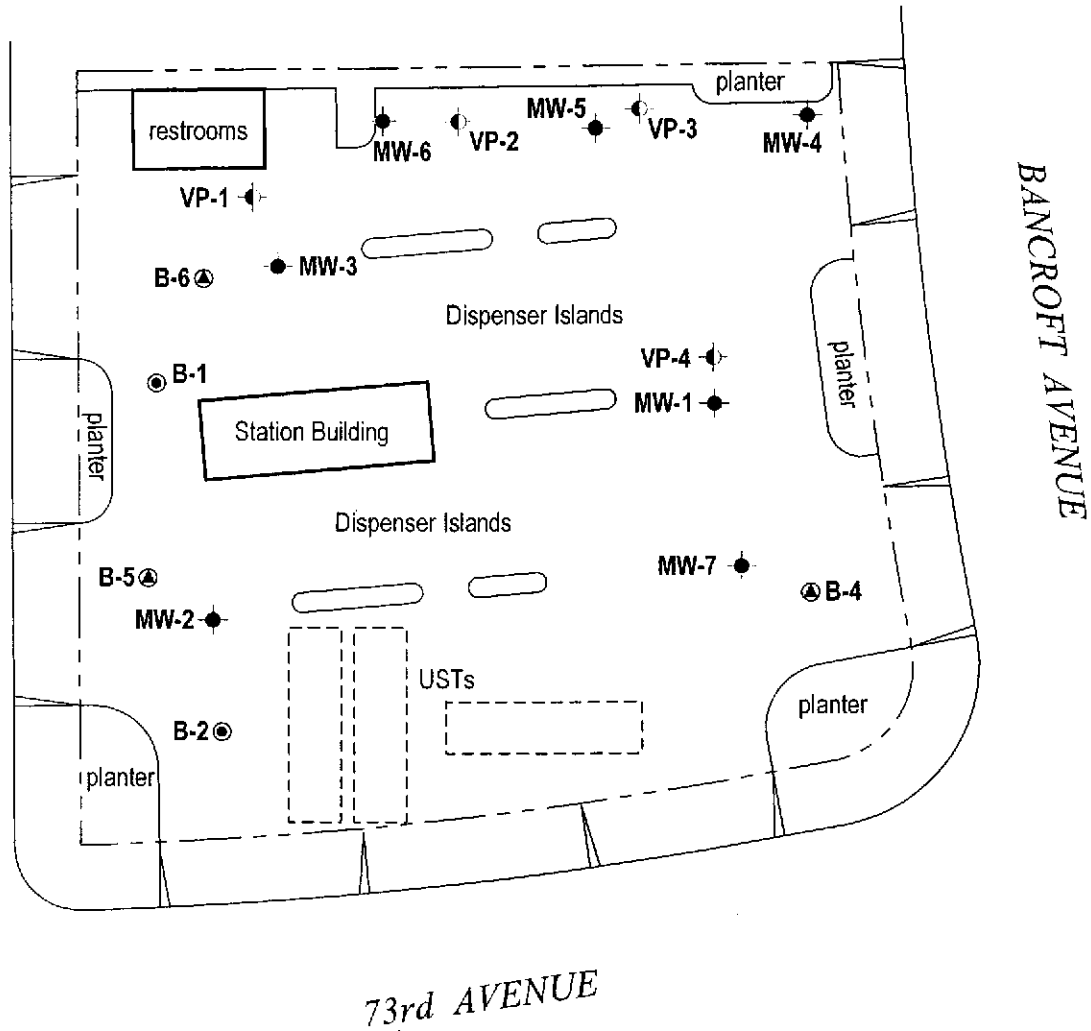
Cambria Environmental Technology, Inc.  
 5900 Hollis St., Ste A  
 Emeryville, CA 94608  
 Telephone: (510) 420-0700  
 Fax: (510) 420-9170

# BORING/WELL LOG

<b>CLIENT NAME</b>	Chevron Products Company	<b>BORING/WELL NAME</b>	VP-4
<b>JOB/SITE NAME</b>	9-3322	<b>DRILLING STARTED</b>	16-Mar-05
<b>LOCATION</b>	7225 Bancroft Avenue, Oakland, CA	<b>DRILLING COMPLETED</b>	16-Mar-05
<b>PROJECT NUMBER</b>	31H-1806	<b>WELL DEVELOPMENT DATE (YIELD)</b>	NA
<b>DRILLER</b>	Gregg Drilling	<b>GROUND SURFACE ELEVATION</b>	Not Surveyed
<b>DRILLING METHOD</b>	Hand Augered	<b>TOP OF CASING ELEVATION</b>	Not Surveyed
<b>BORING DIAMETER</b>	6"	<b>SCREENED INTERVAL</b>	NA
<b>LOGGED BY</b>	Charlotte Evans	<b>DEPTH TO WATER (First Encountered)</b>	NA
<b>REVIEWED BY</b>	B. Foss, RG# 7445	<b>DEPTH TO WATER (Static)</b>	NA
<b>REMARKS</b>	Water not encountered.		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	WELL DIAGRAM
							Asphalt	1.0	<ul style="list-style-type: none"> <li>▲ Portland Type I/II</li> <li>▲ Monterey Sand #2/12</li> <li>▲ Portland Type I/II</li> <li>▲ Monterey Sand #2/12</li> <li>▲ Portland Type I/II</li> <li>▲ Monterey Sand #2/12</li> </ul> <p>Bottom of Boring @ 11.5 ft</p>
				5	ML		<b>Silty CLAY with sand:</b> Dark brown; dry; stiff; 50% clay, 45% silt, 5% sand; high plasticity; low estimated permeability.		
				7.0	ML		<b>Clayey SILT with sand:</b> Light brown; dry; stiff; 60% silt, 35% clay, 5% sand; moderate plasticity; moderate estimated permeability.		
				8.0	ML		<b>Clayey SILT with sand and gravel:</b> Brown-orange; dry; stiff; 50% silt, 35% clay, 10% sand, 5% gravel; moderate plasticity; moderate estimated permeability.		
				9.0	ML		<b>Silty CLAY with sand:</b> Brown-orange; dry; stiff; 50% clay, 45% silt, 5% sand; moderate plasticity; low estimated permeability.		
				10.0	ML		<b>Clayey SILT with gravel and sand:</b> Brown-orange; dry; stiff; 45% silt, 40% clay, 10% gravel, 5% sand; moderate plasticity; moderate estimated permeability.		
				11.5					

WELL LOG (PID) 119-3322-1GINTY9-3322 VAPOR PROBES.GPJ DEFAULT.GDT 5/11/05



EXPLANATION	
MW-1 ●	Monitoring well location
VP-1 ⊣	Vapor probe location
SB-1 ⊙	Previous soil boring location
SB-4 ⊕	Soil boring location from September 25, 2000 investigation

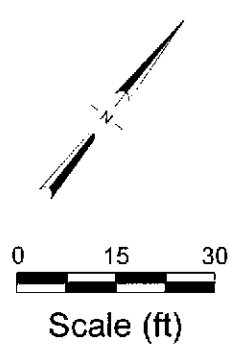


FIGURE 2

**Chevron Service Station 9-3322**  
 7225 Bancroft Avenue  
 Oakland, California



C A M B R I A

**Site Plan**

19-3322(FIG) RESUBMITTING

**ATTACHMENT B**

**Laboratory Soil and Soil Vapor Analytic Results**

## ANALYTICAL RESULTS

Prepared for:

ChevronTexaco  
6001 Bollinger Canyon Rd L4310  
San Ramon CA 94583

925-842-8582

Prepared by:

Lancaster Laboratories  
2425 New Holland Pike  
Lancaster, PA 17605-2425SAMPLE GROUP

The sample group for this submittal is 936092. Samples arrived at the laboratory on Saturday, March 19, 2005. The PO# for this group is 99011184 and the release number is INGLIS.

<u>Client Description</u>			<u>Lancaster Labs Number</u>
VP-4-S-5-050316	NA	Soil	4486175
VP-4-S-10-050316	NA	Soil	4486176
VP-3-S-5-050317	NA	Soil	4486177
VP-3-S-10-050317	NA	Soil	4486178
VP-1-S-5-050317	NA	Soil	4486179
VP-1-S-10-050317	NA	Soil	4486180
VP-2-S-5-050317	NA	Soil	4486181
VP-2-S-10-050317	NA	Soil	4486182

1 COPY TO

Cambria Environmental

Attn: Bob Foss



## ***Analysis Report***

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • [www.lancasterlabs.com](http://www.lancasterlabs.com)

Questions? Contact your Client Services Representative  
Angela M Miller at (717) 656-2300.

Respectfully Submitted,

A handwritten signature in cursive script that reads "Michele M. Turner".

Michele M. Turner  
Manager



# Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Lancaster Laboratories Sample No. SW 4486177

VP-3-S-5-050317 NA Soil  
 Facility# 93322 CETR  
 7225 Bancroft-Oakland T0600102079 VP-3  
 Collected: 03/17/2005 08:21 by CE Account Number: 10880

Submitted: 03/19/2005 09:45  
 Reported: 03/28/2005 at 17:42  
 Discard: 04/28/2005  
 ChevronTexaco  
 6001 Bollinger Canyon Rd L4310  
 San Ramon CA 94583

BAO35

CAT No.	Analysis Name	CAS Number	As Received	As Received	Units	Dilution Factor
			Result	Method		
01725	TPH-GRO - Soils	n.a.	N.D.	Detection Limit 1.0	mg/kg	25
The analysis for volatiles was performed on a sample which was preserved in methanol. The reporting limits were adjusted appropriately. The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time.						
07361	BTEX+5 Oxygenates+EDC+EDB					
02016	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	mg/kg	0.99
02017	di-Isopropyl ether	108-20-3	N.D.	0.001	mg/kg	0.99
02018	Ethyl t-butyl ether	637-92-3	N.D.	0.001	mg/kg	0.99
02019	t-Amyl methyl ether	994-05-8	N.D.	0.001	mg/kg	0.99
02020	t-Butyl alcohol	75-65-0	N.D.	0.020	mg/kg	0.99
05460	Benzene	71-43-2	0.0007	0.0005	mg/kg	0.99
05461	1,2-Dichloroethane	107-06-2	N.D.	0.001	mg/kg	0.99
05466	Toluene	108-88-3	0.002	0.001	mg/kg	0.99
05471	1,2-Dibromoethane	106-93-4	N.D.	0.001	mg/kg	0.99
05474	Ethylbenzene	100-41-4	0.001	0.001	mg/kg	0.99
06301	Xylene (Total)	1330-20-7	0.005	0.001	mg/kg	0.99

State of California Lab Certification No. 2116

## Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis	Analyst	Dilution Factor
				Date and Time		
01725	TPH-GRO - Soils	N. CA LUFT Gasoline method	1	03/24/2005 11:46	Martha L Seidel	25
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	03/23/2005 05:45	Anastasia Papadoplos	0.99
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	03/23/2005 02:42	Anastasia Papadoplos	n.a.
01150	GC - Bulk Soil Prep	SW-846 5035	1	03/21/2005 16:28	Eric L Vera	n.a.

**Lancaster Laboratories Sample No. SW 4486178**

VP-3-S-10-050317 NA Soil  
 Facility# 93322 CETR  
 7225 Bancroft-Oakland T0600102079 VP-3  
 Collected: 03/17/2005 08:43 by CE Account Number: 10880

Submitted: 03/19/2005 09:45 ChevronTexaco  
 Reported: 03/28/2005 at 17:42 6001 Bollinger Canyon Rd L4310  
 Discard: 04/28/2005 San Ramon CA 94583

BAO31

CAT No.	Analysis Name	CAS Number	As Received	As Received	Units	Dilution Factor
			Result	Method		
01725	TPH-GRO - Soils	n.a.	N.D.	Detection Limit 1.0	mg/kg	25
	The analysis for volatiles was performed on a sample which was preserved in methanol. The reporting limits were adjusted appropriately. The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time.					
07361	BTEX+5 Oxygenates+EDC+EDB					
02016	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	mg/kg	0.99
02017	di-Isopropyl ether	108-20-3	N.D.	0.001	mg/kg	0.99
02018	Ethyl t-butyl ether	637-92-3	N.D.	0.001	mg/kg	0.99
02019	t-Amyl methyl ether	994-05-8	N.D.	0.001	mg/kg	0.99
02020	t-Butyl alcohol	75-65-0	N.D.	0.020	mg/kg	0.99
05460	Benzene	71-43-2	N.D.	0.0005	mg/kg	0.99
05461	1,2-Dichloroethane	107-06-2	N.D.	0.001	mg/kg	0.99
05466	Toluene	108-88-3	N.D.	0.001	mg/kg	0.99
05471	1,2-Dibromoethane	106-93-4	N.D.	0.001	mg/kg	0.99
05474	Ethylbenzene	100-41-4	N.D.	0.001	mg/kg	0.99
06301	Xylene (Total)	1330-20-7	N.D.	0.001	mg/kg	0.99

State of California Lab Certification No. 2116

### Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
01725	TPH-GRO - Soils	N. CA LUFT Gasoline method	1	03/23/2005 19:50	Martha L Seidel	25
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	03/23/2005 06:08	Anastasia Papadopoulos	0.99
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	03/23/2005 02:43	Anastasia Papadopoulos	n.a.
01150	GC - Bulk Soil Prep	SW-846 5035	1	03/21/2005 16:31	Eric L Vera	n.a.

Lancaster Laboratories Sample No. SW 4486179

VP-1-S-5-050317 NA Soil  
 Facility# 93322 CETR  
 7225 Bancroft-Oakland T0600102079 VP-1  
 Collected: 03/17/2005 09:45 by CE Account Number: 10880

Submitted: 03/19/2005 09:45  
 Reported: 03/28/2005 at 17:42  
 Discard: 04/28/2005  
 ChevronTexaco  
 6001 Bollinger Canyon Rd L4310  
 San Ramon CA 94583

BA015

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		
01725	TPH-GRO - Soils	n.a.	N.D.	1.0		mg/kg	25
The analysis for volatiles was performed on a sample which was preserved in methanol. The reporting limits were adjusted appropriately. The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time.							
07361	BTEX+5 Oxygenates+EDC+EDB						
02016	Methyl Tertiary Butyl Ether	1634-04-4	0.001	0.0005		mg/kg	0.99
02017	di-Isopropyl ether	108-20-3	N.D.	0.001		mg/kg	0.99
02018	Ethyl t-butyl ether	637-92-3	N.D.	0.001		mg/kg	0.99
02019	t-Amyl methyl ether	994-05-8	N.D.	0.001		mg/kg	0.99
02020	t-Butyl alcohol	75-65-0	N.D.	0.020		mg/kg	0.99
05460	Benzene	71-43-2	0.0006	0.0005		mg/kg	0.99
05461	1,2-Dichloroethane	107-06-2	0.002	0.001		mg/kg	0.99
05466	Toluene	108-88-3	0.001	0.001		mg/kg	0.99
05471	1,2-Dibromoethane	106-93-4	N.D.	0.001		mg/kg	0.99
05474	Ethylbenzene	100-41-4	N.D.	0.001		mg/kg	0.99
06301	Xylene (Total)	1330-20-7	0.001	0.001		mg/kg	0.99

State of California Lab Certification No. 2116

### Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis		Analyst	Dilution Factor
				Date	Time		
01725	TPH-GRO - Soils	N. CA LUFT Gasoline method	1	03/23/2005	20:27	Martha L Seidel	25
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	03/23/2005	06:30	Anastasia Papadoplos	0.99
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	03/23/2005	02:45	Anastasia Papadoplos	n.a.
01150	GC - Bulk Soil Prep	SW-846 5035	1	03/21/2005	16:33	Eric L Vera	n.a.





# Analysis Report

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Lancaster Laboratories Sample No. SW 4486180

VP-1-S-10-050317 NA Soil CETR  
 Facility# 93322  
 7225 Bancroft-Oakland T0600102079 VP-1  
 Collected: 03/17/2005 10:34 by CE Account Number: 10880

Submitted: 03/19/2005 09:45  
 Reported: 03/28/2005 at 17:42  
 Discard: 04/28/2005  
 ChevronTexaco  
 6001 Bollinger Canyon Rd L4310  
 San Ramon CA 94583

BAO11

CAT No.	Analysis Name	CAS Number	As Received Result	As Received	Units	Dilution Factor
				Method		
01725	TPH-GRO - Soils	n.a.	N.D.	Detection Limit 1.0	mg/kg	25
The analysis for volatiles was performed on a sample which was preserved in methanol. The reporting limits were adjusted appropriately. The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time.						
07361	BTEX+5 Oxygenates+EDC+EDB					
02016	Methyl Tertiary Butyl Ether	1634-04-4	0.0005	0.0005	mg/kg	1.01
02017	di-Isopropyl ether	108-20-3	N.D.	0.001	mg/kg	1.01
02018	Ethyl t-butyl ether	637-92-3	N.D.	0.001	mg/kg	1.01
02019	t-Amyl methyl ether	994-05-8	N.D.	0.001	mg/kg	1.01
02020	t-Butyl alcohol	75-65-0	N.D.	0.020	mg/kg	1.01
05460	Benzene	71-43-2	N.D.	0.0005	mg/kg	1.01
05461	1,2-Dichloroethane	107-06-2	N.D.	0.001	mg/kg	1.01
05466	Toluene	108-88-3	N.D.	0.001	mg/kg	1.01
05471	1,2-Dibromoethane	106-93-4	N.D.	0.001	mg/kg	1.01
05474	Ethylbenzene	100-41-4	N.D.	0.001	mg/kg	1.01
06301	Xylene (Total)	1330-20-7	N.D.	0.001	mg/kg	1.01

State of California Lab Certification No. 2116

## Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis	Analyst	Dilution Factor
				Date and Time		
01725	TPH-GRO - Soils	N. CA LUFT Gasoline method	1	03/23/2005 21:05	Martha L Seidel	25
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	03/23/2005 06:53	Anastasia Papadoplos	1.01
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	03/23/2005 02:46	Anastasia Papadoplos	n.a.
01150	GC - Bulk Soil Prep	SW-846 5035	1	03/21/2005 16:35	Eric L Vera	n.a.



# Analysis Report

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Lancaster Laboratories Sample No. SW 4486181

VP-2-S-5-050317 NA Soil CETR  
Facility# 93322  
7225 Bancroft-Oakland T0600102079 VP-2  
Collected: 03/17/2005 12:17 by CE

Account Number: 10880

Submitted: 03/19/2005 09:45  
Reported: 03/28/2005 at 17:42  
Discard: 04/28/2005

ChevronTexaco  
6001 Bollinger Canyon Rd L4310  
San Ramon CA 94583

BAO25

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01725	TPH-GRO - Soils	n.a.	N.D.	1.0	mg/kg	25
The analysis for volatiles was performed on a sample which was preserved in methanol. The reporting limits were adjusted appropriately. The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time.						
07361	BTEX+5 Oxygenates+EDC+EDB					
02016	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	mg/kg	0.99
02017	di-Isopropyl ether	108-20-3	N.D.	0.001	mg/kg	0.99
02018	Ethyl t-butyl ether	637-92-3	N.D.	0.001	mg/kg	0.99
02019	t-Amyl methyl ether	994-05-8	N.D.	0.001	mg/kg	0.99
02020	t-Butyl alcohol	75-65-0	N.D.	0.020	mg/kg	0.99
05460	Benzene	71-43-2	0.0007	0.0005	mg/kg	0.99
05461	1,2-Dichloroethane	107-06-2	N.D.	0.001	mg/kg	0.99
05466	Toluene	108-88-3	N.D.	0.001	mg/kg	0.99
05471	1,2-Dibromoethane	106-93-4	N.D.	0.001	mg/kg	0.99
05474	Ethylbenzene	100-41-4	N.D.	0.001	mg/kg	0.99
06301	Xylene (Total)	1330-20-7	0.001	0.001	mg/kg	0.99

State of California Lab Certification No. 2116

## Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01725	TPH-GRO - Soils	N. CA LUFT Gasoline method	1	03/23/2005 21:42	Martha L Seidel	25
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	03/23/2005 07:15	Anastasia Papadoplos	0.99
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	03/23/2005 03:40	Anastasia Papadoplos	n.a.
01150	GC - Bulk Soil Prep	SW-846 5035	1	03/21/2005 16:38	Eric L Vera	n.a.



# Analysis Report

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Page 1 of 1

Lancaster Laboratories Sample No. SW 4486182

VP-2-S-10-050317 NA Soil CETR  
 Facility# 93322  
 7225 Bancroft-Oakland T0600102079 VP-2  
 Collected: 03/17/2005 12:41 by CE Account Number: 10880

Submitted: 03/19/2005 09:45  
 Reported: 03/28/2005 at 17:42  
 Discard: 04/28/2005  
 ChevronTexaco  
 6001 Bollinger Canyon Rd L4310  
 San Ramon CA 94583

BAO21

CAT No.	Analysis Name	CAS Number	As Received	As Received	Units	Dilution Factor
			Result	Method		
01725	TPH-GRO - Soils	n.a.	N.D.	Detection Limit 1.0	mg/kg	25
The analysis for volatiles was performed on a sample which was preserved in methanol. The reporting limits were adjusted appropriately. The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time.						
07361	BTEX+5 Oxygenates+EDC+EDB					
02016	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	mg/kg	1.01
02017	di-Isopropyl ether	108-20-3	N.D.	0.001	mg/kg	1.01
02018	Ethyl t-butyl ether	637-92-3	N.D.	0.001	mg/kg	1.01
02019	t-Amyl methyl ether	994-05-8	N.D.	0.001	mg/kg	1.01
02020	t-Butyl alcohol	75-65-0	N.D.	0.020	mg/kg	1.01
05460	Benzene	71-43-2	N.D.	0.0005	mg/kg	1.01
05461	1,2-Dichloroethane	107-06-2	N.D.	0.001	mg/kg	1.01
05466	Toluene	108-88-3	N.D.	0.001	mg/kg	1.01
05471	1,2-Dibromoethane	106-93-4	N.D.	0.001	mg/kg	1.01
05474	Ethylbenzene	100-41-4	N.D.	0.001	mg/kg	1.01
06301	Xylene (Total)	1330-20-7	N.D.	0.001	mg/kg	1.01

State of California Lab Certification No. 2116

## Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
01725	TPH-GRO - Soils	N. CA LUFT Gasoline method	1	03/23/2005 22:20	Martha L Seidel	25
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	03/23/2005 07:38	Anastasia Papadopoulos	1.01
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	03/23/2005 02:47	Anastasia Papadopoulos	n.a.
01150	GC - Bulk Soil Prep	SW-846 5035	1	03/21/2005 16:41	Eric L Vera	n.a.

## Quality Control Summary

 Client Name: ChevronTexaco  
 Reported: 03/28/05 at 05:42 PM

Group Number: 936092

Matrix QC may not be reported if 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.

### Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 05082A02B TPH-GRO - Soils	N.D.	1.0	Sample number(s): 4486175-4486177 mg/kg	80		67-119		
Batch number: 05082A33A TPH-GRO - Soils	N.D.	1.0	Sample number(s): 4486178-4486182 mg/kg	86		67-119		
Batch number: A050812AA Methyl Tertiary Butyl Ether	N.D.	0.5	Sample number(s): 4486175-4486182 ug/kg	96		75-125		
di-Isopropyl ether	N.D.	1.	ug/kg	101		70-129		
Ethyl t-butyl ether	N.D.	1.	ug/kg	95		71-124		
t-Amyl methyl ether	N.D.	1.	ug/kg	94		63-129		
t-Butyl alcohol	N.D.	20.	ug/kg	99		51-160		
Benzene	N.D.	0.5	ug/kg	105		77-119		
1,2-Dichloroethane	N.D.	1.	ug/kg	102		76-126		
Toluene	N.D.	1.	ug/kg	103		81-116		
1,2-Dibromoethane	N.D.	1.	ug/kg	93		77-114		
Ethylbenzene	N.D.	1.	ug/kg	102		82-115		
Xylene (Total)	N.D.	1.	ug/kg	102		82-117		

### Sample Matrix Quality Control

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 05082A02B TPH-GRO - Soils	81	89	Sample number(s): 4486175-4486177 39-118	9	30				
Batch number: 05082A33A TPH-GRO - Soils	76	79	Sample number(s): 4486178-4486182 39-118	4	30				
Batch number: A050812AA Methyl Tertiary Butyl Ether	90	93	Sample number(s): 4486175-4486182 49-140	3	30				
di-Isopropyl ether	91	94	63-129	3	30				
Ethyl t-butyl ether	85	88	65-123	3	30				
t-Amyl methyl ether	83	86	58-126	3	30				
t-Butyl alcohol	95	102	46-148	8	30				
Benzene	97	101	67-123	4	30				
1,2-Dichloroethane	92	96	62-130	5	30				
Toluene	98	101	55-125	3	30				
1,2-Dibromoethane	83	86	62-116	3	30				
Ethylbenzene	95	97	50-127	2	30				
Xylene (Total)	94	97	54-123	2	30				

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.

## Quality Control Summary

Client Name: ChevronTexaco  
Reported: 03/28/05 at 05:42 PM

Group Number: 936092

### Sample Matrix Quality Control

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
---------------	------------	-------------	------------------	-----	------------	-------------	-------------	------------	----------------

### Surrogate Quality Control

Analysis Name: TPH-GRO - Soils  
Batch number: 05082A02B  
Trifluorotoluene-F

4486175	78
4486176	72
4486177	72
Blank	96
LCS	93
MS	71
MSD	86

Limits: 61-122

Analysis Name: TPH-GRO - Soils  
Batch number: 05082A33A  
Trifluorotoluene-F

4486178	77
4486179	72
4486180	75
4486181	75
4486182	72
Blank	100
LCS	83
MS	70
MSD	74

Limits: 61-122

Analysis Name: BTEX+5 Oxygenates+EDC+EDB  
Batch number: A050812AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
4486175	97	97	101	92
4486176	97	93	99	93
4486177	97	91	102	89
4486178	97	91	100	91
4486179	98	93	102	89
4486180	97	91	100	92
4486181	97	92	102	89
4486182	97	91	101	91
Blank	98	98	100	94
LCS	98	93	102	97
MS	96	90	105	96
MSD	96	87	105	95

Limits: 70-129      70-121      70-130      70-128

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.

## Quality Control Summary

Client Name: ChevronTexaco  
Reported: 03/28/05 at 05:42 PM

Group Number: 936092

### Surrogate Quality Control

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.

# Chevron California Region Analysis Request/Chain of Custody



For Lancaster Laboratories use only  
 Acct #: 10880 Sample #: 448617582 SCR#: 936092

031805 -16

Facility #: 9-3322 - AIL 11A 5121105  
 Site Address: 7225 Bancroft Ave Oakland, CA  
 Chevron PM: M. Inglis Lead Consultant: Cambria  
 Consultant/Office: Emeryville, CA  
 Consultant Prj. Mgr.: Bi. Foss  
 Consultant Phone #: (510) 420-3348 Fax #: (510) 420-9170  
 Sampler: CEVANS  
 Service Order #: \_\_\_\_\_  Non SAR:

### Analyses Requested

Preservation Codes	
<input type="checkbox"/> BTEX + MTBE 8260 <input checked="" type="checkbox"/> 8021 <input type="checkbox"/> TPH 8015 MOD GRO <input type="checkbox"/> TPH 8015 MOD DRO <input type="checkbox"/> Silica Gel Cleanup <input type="checkbox"/> 8260 full scan <input type="checkbox"/> Oxygenates <u>8260</u> <input type="checkbox"/> Lead 7420 <input type="checkbox"/> 7421	

**Preservative Codes**  
 H = HCl      T = Thiosulfate  
 N = HNO<sub>3</sub>    B = NaOH  
 S = H<sub>2</sub>SO<sub>4</sub>    O = Other

- 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

Field Point Name	Matrix	Repeat Sample	Top Depth	Year	Month	Day	Time Collected	New Field Pt.	Grab	Composite	Total Number of Containers
VP4-5-S-050316	S		5	05	03	16	1:48	Y			1
VP4-10-S-050316	S		10	05	03	16	2:00	Y			1
VP-3-5-S-050317	S		5	05	03	17	8:21	Y			1
VP-3-10-S-050317	S		10	05	03	17	8:43	Y			1
VP-1-5-S-050317	S		5	05	03	17	9:45	Y			1
VP-1-10-S-050317	S		9.5	05	03	17	10:34	Y			1
VP-2-5-S-050317	S		5	05	03	17	12:17	Y			1
VP-2-10-S-050317	S		10	05	03	17	12:41	Y			1

**Comments / Remarks**

**Turnaround Time Requested (TAT) (please circle)**

STD. TAT      72 hour      48 hour  
 24-hour      4 day      5 day

**Data Package Options (please circle if required)**

QC Summary      Type I - Full  
 Type VI (Raw Data)       Coelt Deliverable not needed  
 WIP (RWQCB)  
 Disk

Relinquished by: <u>[Signature]</u>	Date: <u>03/18/05</u>	Time: <u>3:05</u>	Received by: <u>[Signature]</u>	Date: <u>3/18/05</u>	Time: <u>15:35</u>
Relinquished by: <u>[Signature]</u>	Date: <u>3/18/05</u>	Time: <u>1545</u>	Received by: <u>FedEx</u>	Date: <u>3/18/05</u>	Time: _____
Relinquished by: _____	Date: _____	Time: _____	Received by: _____	Date: _____	Time: _____
Relinquished by Commercial Carrier: <u>UPS</u> <input checked="" type="checkbox"/> FedEx      Other _____	Temperature Upon Receipt: <u>10-20°C</u>		Received by: <u>[Signature]</u>	Date: <u>3/18/05</u>	Time: <u>0945</u>
Custody Seals Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					

# Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

<b>N.D.</b>	none detected	<b>BMQL</b>	Below Minimum Quantitation Level
<b>TNTC</b>	Too Numerous To Count	<b>MPN</b>	Most Probable Number
<b>IU</b>	International Units	<b>CP Units</b>	cobalt-chloroplatinate units
<b>umhos/cm</b>	micromhos/cm	<b>NTU</b>	nephelometric turbidity units
<b>C</b>	degrees Celsius	<b>F</b>	degrees Fahrenheit
<b>meq</b>	milliequivalents	<b>lb.</b>	pound(s)
<b>g</b>	gram(s)	<b>kg</b>	kilogram(s)
<b>ug</b>	microgram(s)	<b>mg</b>	milligram(s)
<b>ml</b>	milliliter(s)	<b>l</b>	liter(s)
<b>m3</b>	cubic meter(s)	<b>ul</b>	microliter(s)
<b>&lt;</b>	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
<b>&gt;</b>	greater than		
<b>J</b>	estimated value – The result is $\geq$ the Method Detection Limit (MDL) and $<$ the Limit of Quantitation (LOQ).		
<b>ppm</b>	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 of gas per liter of gas.		
<b>ppb</b>	parts per billion		
<b>Dry weight basis</b>	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.		

## U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
<b>A</b>	TIC is a possible aldol-condensation product	<b>B</b>	Value is $<$ CRDL, but $\geq$ IDL
<b>B</b>	Analyte was also detected in the blank	<b>E</b>	Estimated due to interference
<b>C</b>	Pesticide result confirmed by GC/MS	<b>M</b>	Duplicate injection precision not met
<b>D</b>	Compound quantitated on a diluted sample	<b>N</b>	Spike sample not within control limits
<b>E</b>	Concentration exceeds the calibration range of the instrument	<b>S</b>	Method of standard additions (MSA) used for calculation
<b>N</b>	Presumptive evidence of a compound (TICs only)	<b>U</b>	Compound was not detected
<b>P</b>	Concentration difference between primary and confirmation columns $>$ 25%	<b>W</b>	Post digestion spike out of control limits
<b>U</b>	Compound was not detected	<b>*</b>	Duplicate analysis not within control limits
<b>X,Y,Z</b>	Defined in case narrative	<b>+</b>	Correlation coefficient for MSA $<$ 0.995

Analytical test results for methods listed on the laboratories' accreditation scope 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.

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**AIR TOXICS LTD.**

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AN ENVIRONMENTAL ANALYTICAL LABORATORY

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Thank you for choosing Air Toxics Ltd. To better serve our customers, we are providing your report by e-mail. This document is provided in Portable Document Format which can be viewed with Acrobat Reader by Adobe.

This electronic report includes the following:

- Work order Summary;
- Laboratory Narrative;
- Results; and
- Chain of Custody (copy).

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630

(916) 985-1000 .FAX (916) 985-1020

Hours 8:00 A.M to 6:00 P.M. Pacific

E-mail to: [samplereceiving@airtoxics.com](mailto:samplereceiving@airtoxics.com)

**WORK ORDER #: 0504551AR1**

Work Order Summary

**CLIENT:** Mr. Bob Foss  
Cambria Environmental Technology  
5900 Hollis Street  
Suite A  
Emeryville, CA 94608

**BILL TO:** Mr. Bob Foss  
Cambria Environmental Technology  
5900 Hollis Street  
Suite A  
Emeryville, CA 94608

**PHONE:** 510-420-0700

**FAX:** 510-420-9170

**DATE RECEIVED:** 04/28/2005

**DATE COMPLETED:** 05/10/2005

**DATE REISSUED:** 5/12/05

**P.O. #** 31H-1806-C11

**PROJECT #** 31H-1806-C11 9-3322

**CONTACT:** Taryn Badal

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>
01A	VP-1 @ 5	Modified TO-14A	1.0 "Hg
02A	VP-1 @ 5 Test	Modified TO-14A	0.5 "Hg
03A	VP-1 @ 7.5	Modified TO-14A	5.5 "Hg
04A	VP-1 @ 10	Modified TO-14A	5.5 "Hg
05A	VP-2 @ 7.5	Modified TO-14A	5.5 "Hg
06A	VP-2 @ 7.5 DUP	Modified TO-14A	3.0 "Hg
07A	VP-3 @ 5	Modified TO-14A	5.5 "Hg
08A	VP-3 @ 7.5	Modified TO-14A	6.0 "Hg
09A	VP-4 @ 5	Modified TO-14A	5.5 "Hg
10A	VP-4 @ 7.5	Modified TO-14A	5.5 "Hg
11A	VP-4 @ 10	Modified TO-14A	6.0 "Hg
11AA	VP-4 @ 10 Duplicate	Modified TO-14A	6.0 "Hg
12A	Lab Blank	Modified TO-14A	NA
12B	Lab Blank	Modified TO-14A	NA
12C	Lab Blank	Modified TO-14A	NA
13A	CCV	Modified TO-14A	NA
13B	CCV	Modified TO-14A	NA

Continued on next page

**WORK ORDER #: 0504551AR1**

Work Order Summary

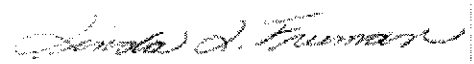
**CLIENT:** Mr. Bob Foss  
Cambria Environmental Technology  
5900 Hollis Street  
Suite A  
Emeryville, CA 94608

**BILL TO:** Mr. Bob Foss  
Cambria Environmental Technology  
5900 Hollis Street  
Suite A  
Emeryville, CA 94608

**PHONE:** 510-420-0700  
**FAX:** 510-420-9170  
**DATE RECEIVED:** 04/28/2005  
**DATE COMPLETED:** 05/10/2005  
**DATE REISSUED:** 5/12/05

**P.O. #** 31H-1806-C11  
**PROJECT #** 31H-1806-C11 9-3322  
**CONTACT:** Taryn Badal

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>
13C	CCV	Modified TO-14A	NA
14A	LCS	Modified TO-14A	NA
14B	LCS	Modified TO-14A	NA
14C	LCS	Modified TO-14A	NA

CERTIFIED BY:   
Laboratory Director

DATE: 05/12/05

Certification numbers: AR DEQ - 03-084-0, CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004  
NY NELAP - 11291, UT NELAP - 9166389892  
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,  
Accreditation number: E87680, Effective date: 07/01/04, Expiration date: 06/30/05  
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards  
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**LABORATORY NARRATIVE**  
**Modified TO-14A GC/MS/FID**  
**Cambria Environmental Technology**  
**Workorder# 0504551AR1**

Eleven 1 Liter Summa Canister samples were received on April 28, 2005. The laboratory performed the analysis via Modified Method TO-14A using GC/MS/FID. The method involves direct injection of a sample aliquot into a vapor management system. The sample passes directly into the GC/MS/FID for analysis following dehumidification. The TPH results are calculated using a response factor derived from Gasoline. A molecular weight of 100 is used to convert the TPH ppbv result to ug/m3. See the data sheets for reporting limits.

<i>Requirement</i>	<i>TO-14A/TO-15</i>	<i>ATL Modifications</i>
Sample Drying System	Nafion Drier	Multisorbent
Sample Load Volume	400 mL	Up to 200 mL.
Blank Acceptance Criteria	< 0.2 ppbv	< RL
Dilutions for Initial Calibration	Dynamic dilutions or static using canisters	Syringe dilutions, fixed volume sampling loop, metered volume
Sample Collection Media	Summa Canister	ATL recommends use of Summa canisters to insure data defensibility, but will report results from Tedlar bags at client request.
RT Window Study (FID Only)	Mean +/- 3 X STD within 72 hrs.	+/- 0.08 min. (Mean +/- 3 X STD < 0.08 min.)

**Receiving Notes**

There were no receiving discrepancies.

**Analytical Notes**

There were no analytical discrepancies.

THE WORK ORDER WAS RE-ISSUED ON MAY 12, 2005 TO ADDITIONALLY REPORT 2-PROPANOL PER CLIENT'S REQUEST. 2-PROPANOL IS EITHER REPORTED WITH AN "E" FLAG INDICATING THE COMPOUND EXCEEDS THE CALIBRATION RANGE OR WITH AN "S" FLAG INDICATING THE COMPOUND IS SATURATED.

**Definition of Data Qualifying Flags**

Seven qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

**AIR TOXICS LTD.**  
**Summary of Detected Compounds**  
**MODIFIED EPA METHOD TO-14A**

Client Sample ID: VP-1 @ 5

Lab ID#: 0504551AR1-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Toluene	10	13	39	49
2-Propanol	10	71	26	170
Methyl tert-butyl ether	10	180	38	660
TPH (C5+ Hydrocarbons) ref. to Gasoline	560	19000	2300	79000

Client Sample ID: VP-1 @ 5 Test

Lab ID#: 0504551AR1-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
2-Propanol	10	50	25	120
Methyl tert-butyl ether	10	90	37	320
TPH (C5+ Hydrocarbons) ref. to Gasoline	200	7900	840	32000

Client Sample ID: VP-1 @ 7.5

Lab ID#: 0504551AR1-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
2-Propanol	12	180	30	450
Methyl tert-butyl ether	12	160	44	570
TPH (C5+ Hydrocarbons) ref. to Gasoline	250	2800	1000	11000

Client Sample ID: VP-1 @ 10

Lab ID#: 0504551AR1-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
2-Propanol	12	340	30	850
Methyl tert-butyl ether	12	77	44	280
TPH (C5+ Hydrocarbons) ref. to Gasoline	250	1500	1000	6300

Client Sample ID: VP-2 @ 7.5

Lab ID#: 0504551AR1-05A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
2-Propanol	12	45000 E	30	110000 E
TPH (C5+ Hydrocarbons) ref. to Gasoline	250	12000	1000	49000

Client Sample ID: VP-2 @ 7.5 DUP

Lab ID#: 0504551AR1-06A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
2-Propanol	11	44000 E	28	110000 E
TPH (C5+ Hydrocarbons) ref. to Gasoline	220	12000	920	50000

Client Sample ID: VP-3 @ 5

Lab ID#: 0504551AR1-07A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
2-Propanol	12	32000 E	30	79000 E
TPH (C5+ Hydrocarbons) ref. to Gasoline	250	8700	1000	36000

Client Sample ID: VP-3 @ 7.5

Lab ID#: 0504551AR1-08A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
2-Propanol	13	>420000 S	31	>1000000 S
TPH (C5+ Hydrocarbons) ref. to Gasoline	6300	560000	26000	2300000

Client Sample ID: VP-4 @ 5

Lab ID#: 0504551AR1-09A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Toluene	12	26	46	97
m,p-Xylene	12	22	54	97
2-Propanol	12	>270000 S	30	>650000 S
Methyl tert-butyl ether	12	60	44	220
TPH (C5+ Hydrocarbons) ref. to Gasoline	6200	430000	25000	1800000

Client Sample ID: VP-4 @ 7.5

Lab ID#: 0504551AR1-10A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Toluene	12	26	46	99
m,p-Xylene	12	26	54	110
2-Propanol	12	>170000 S	30	>420000 S
Methyl tert-butyl ether	12	94	44	340
TPH (C5+ Hydrocarbons) ref. to Gasoline	4900	310000	20000	1300000

Client Sample ID: VP-4 @ 10

Lab ID#: 0504551AR1-11A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Toluene	13	13	48	48

Client Sample ID: VP-4 @ 10

Lab ID#: 0504551AR1-11A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
2-Propanol	13	140000 E	31	340000 E
TPH (C5+ Hydrocarbons) ref. to Gasoline	1000	69000	4100	280000

Client Sample ID: VP-4 @ 10 Duplicate

Lab ID#: 0504551AR1-11AA

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Benzene	13	13	40	41
2-Propanol	13	150000 E	31	370000 E
TPH (C5+ Hydrocarbons) ref. to Gasoline	1000	66000	4100	270000



# AIR TOXICS LTD.

Client Sample ID: VP-1 @ 5

Lab ID#: 0504551AR1-01A

MODIFIED EPA METHOD TO-14A

<b>File Name:</b>	e050428r1	<b>Date of Collection:</b>	4/21/05
<b>Dil. Factor:</b>	2.09	<b>Date of Analysis:</b>	5/4/05 11:12 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Benzene	10	Not Detected	33	Not Detected
Toluene	10	13	39	49
Ethyl Benzene	10	Not Detected	45	Not Detected
m,p-Xylene	10	Not Detected	45	Not Detected
o-Xylene	10	Not Detected	45	Not Detected
2-Propanol	10	71	26	170
Methyl tert-butyl ether	10	180	38	660
TPH (C5+ Hydrocarbons) ref. to Gasoline	560	19000	2300	79000

TPH reported from file #d042910 analyzed on April 29, 2005 at a dilution of 5.57

**Container Type: 1 Liter Summa Canister**

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130

# AIR TOXICS LTD.

Client Sample ID: VP-1 @ 5 Test

Lab ID#: 0504551AR1-02A

MODIFIED EPA METHOD TO-14A

File Name:	e050717r1	Date of Collection:	4/21/05
Dil. Factor:	2.05	Date of Analysis:	5/7/05 05:12 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Benzene	10	Not Detected	33	Not Detected
Toluene	10	Not Detected	39	Not Detected
Ethyl Benzene	10	Not Detected	44	Not Detected
m,p-Xylene	10	Not Detected	44	Not Detected
o-Xylene	10	Not Detected	44	Not Detected
2-Propanol	10	50	25	120
Methyl tert-butyl ether	10	90	37	320
TPH (C5+ Hydrocarbons) ref. to Gasoline	200	7900	840	32000

TPH reported from file #d042911 analyzed on April 29, 2005 at a dilution of 2.05

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	92	70-130

# AIR TOXICS LTD.

Client Sample ID: VP-1 @ 7.5

Lab ID#: 0504551AR1-03A

MODIFIED EPA METHOD TO-14A

File Name:	e050718r1	Date of Collection:	4/21/05
Dil. Factor:	2.47	Date of Analysis:	5/7/05 05:34 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Benzene	12	Not Detected	39	Not Detected
Toluene	12	Not Detected	46	Not Detected
Ethyl Benzene	12	Not Detected	54	Not Detected
m,p-Xylene	12	Not Detected	54	Not Detected
o-Xylene	12	Not Detected	54	Not Detected
2-Propanol	12	180	30	450
Methyl tert-butyl ether	12	160	44	570
TPH (C5+ Hydrocarbons) ref. to Gasoline	250	2800	1000	11000

TPH reported from file #d042912 analyzed on April 29, 2005 at a dilution of 2.47

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	93	70-130

# AIR TOXICS LTD.

Client Sample ID: VP-1 @ 10

Lab ID#: 0504551AR1-04A

MODIFIED EPA METHOD TO-14A

File Name:	e050719r1	Date of Collection:	4/21/05
Dil. Factor:	2.47	Date of Analysis:	5/7/05 06:00 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Benzene	12	Not Detected	39	Not Detected
Toluene	12	Not Detected	46	Not Detected
Ethyl Benzene	12	Not Detected	54	Not Detected
m,p-Xylene	12	Not Detected	54	Not Detected
o-Xylene	12	Not Detected	54	Not Detected
2-Propanol	12	340	30	850
Methyl tert-butyl ether	12	77	44	280
TPH (C5+ Hydrocarbons) ref. to Gasoline	250	1500	1000	6300

TPH reported from file #d042913 analyzed on April 29, 2005 at a dilution of 2.47

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	96	70-130

# AIR TOXICS LTD.

Client Sample ID: VP-2 @ 7.5

Lab ID#: 0504551AR1-05A

MODIFIED EPA METHOD TO-14A

File Name:	e050806r1	Date of Collection:	4/22/05
Dil. Factor:	2.47	Date of Analysis:	5/8/05 11:29 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Benzene	12	Not Detected	39	Not Detected
Toluene	12	Not Detected	46	Not Detected
Ethyl Benzene	12	Not Detected	54	Not Detected
m,p-Xylene	12	Not Detected	54	Not Detected
o-Xylene	12	Not Detected	54	Not Detected
2-Propanol	12	45000 E	30	110000 E
Methyl tert-butyl ether	12	Not Detected	44	Not Detected
TPH (C5+ Hydrocarbons) ref. to Gasoline	250	12000	1000	49000

E = Exceeds instrument calibration range.

TPH reported from file #d042914 analyzed on April 29, 2005 at a dilution of 2.47

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	94	70-130

# AIR TOXICS LTD.

Client Sample ID: VP-2 @ 7.5 DUP

Lab ID#: 0504551AR1-06A

MODIFIED EPA METHOD TO-14A

File Name:	e050807r1	Date of Collection:	4/22/05
Dil. Factor:	2.24	Date of Analysis:	5/8/05 11:56 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Benzene	11	Not Detected	36	Not Detected
Toluene	11	Not Detected	42	Not Detected
Ethyl Benzene	11	Not Detected	49	Not Detected
m,p-Xylene	11	Not Detected	49	Not Detected
o-Xylene	11	Not Detected	49	Not Detected
2-Propanol	11	44000 E	28	110000 E
Methyl tert-butyl ether	11	Not Detected	40	Not Detected
TPH (C5+ Hydrocarbons) ref. to Gasoline	220	12000	920	50000

E = Exceeds instrument calibration range.

TPH reported from file #d042915 analyzed on April 29, 2005 at a dilution of 2.24

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130

# AIR TOXICS LTD.

Client Sample ID: VP-3 @ 5

Lab ID#: 0504551AR1-07A

MODIFIED EPA METHOD TO-14A

<b>File Name:</b>	<b>050808r1</b>	<b>Date of Collection:</b>	<b>4/22/05</b>
<b>Dil. Factor:</b>	<b>2.47</b>	<b>Date of Analysis:</b>	<b>5/8/05 12:19 PM</b>

<b>Compound</b>	<b>Rpt. Limit (ppbv)</b>	<b>Amount (ppbv)</b>	<b>Rpt. Limit (uG/m3)</b>	<b>Amount (uG/m3)</b>
Benzene	12	Not Detected	39	Not Detected
Toluene	12	Not Detected	46	Not Detected
Ethyl Benzene	12	Not Detected	54	Not Detected
m,p-Xylene	12	Not Detected	54	Not Detected
o-Xylene	12	Not Detected	54	Not Detected
2-Propanol	12	32000 E	30	79000 E
Methyl tert-butyl ether	12	Not Detected	44	Not Detected
TPH (C5+ Hydrocarbons) ref. to Gasoline	250	8700	1000	36000

E = Exceeds instrument calibration range.

TPH reported from file #d042916 analyzed on April 29, 2005 at a dilution of 2.47

Container Type: 1 Liter Summa Canister

<b>Surrogates</b>	<b>%Recovery</b>	<b>Method Limits</b>
Toluene-d8	92	70-130

# AIR TOXICS LTD.

Client Sample ID: VP-3 @ 7.5

Lab ID#: 0504551AR1-08A

MODIFIED EPA METHOD TO-14A

<b>File Name:</b>	e050809r1	<b>Date of Collection:</b> 4/22/05
<b>Dil. Factor:</b>	2.53	<b>Date of Analysis:</b> 5/8/05 12:48 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Benzene	13	Not Detected	40	Not Detected
Toluene	13	Not Detected	48	Not Detected
Ethyl Benzene	13	Not Detected	55	Not Detected
m,p-Xylene	13	Not Detected	55	Not Detected
o-Xylene	13	Not Detected	55	Not Detected
2-Propanol	13	>420000 S	31	>1000000 S
Methyl tert-butyl ether	13	Not Detected	46	Not Detected
TPH (C5+ Hydrocarbons) ref. to Gasoline	6300	560000	26000	2300000

S = Saturated peak; data reported as estimated.

TPH reported from file #d042917 analyzed on April 29, 2005 at a dilution of 63.2

**Container Type: 1 Liter Summa Canister**

Surrogates	%Recovery	Method Limits
Toluene-d8	94	70-130



# AIR TOXICS LTD.

Client Sample ID: VP-4 @ 5

Lab ID#: 0504551AR1-09A

MODIFIED EPA METHOD TO-14A

File Name:	e050812r1	Date of Collection:	4/22/05
Dil. Factor:	2.47	Date of Analysis:	5/8/05 01:58 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Benzene	12	Not Detected	39	Not Detected
Toluene	12	26	46	97
Ethyl Benzene	12	Not Detected	54	Not Detected
m,p-Xylene	12	22	54	97
o-Xylene	12	Not Detected	54	Not Detected
2-Propanol	12	>270000 S	30	>650000 S
Methyl tert-butyl ether	12	60	44	220
TPH (C5+ Hydrocarbons) ref. to Gasoline	6200	430000	25000	1800000

S = Saturated peak; data reported as estimated.

TPH reported from file #d042918 analyzed on April 29, 2005 at a dilution of 61.8

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	93	70-130

# AIR TOXICS LTD.

Client Sample ID: VP-4 @ 7.5

Lab ID#: 0504551AR1-10A

MODIFIED EPA METHOD TO-14A

<b>File Name:</b>	e050813r1	<b>Date of Collection:</b>	4/22/05
<b>Dil. Factor:</b>	2.47	<b>Date of Analysis:</b>	5/8/05 02:24 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Benzene	12	Not Detected	39	Not Detected
Toluene	12	26	46	99
Ethyl Benzene	12	Not Detected	54	Not Detected
m,p-Xylene	12	26	54	110
o-Xylene	12	Not Detected	54	Not Detected
2-Propanol	12	>170000 S	30	>420000 S
Methyl tert-butyl ether	12	94	44	340
TPH (C5+ Hydrocarbons) ref. to Gasoline	4900	310000	20000	1300000

S = Saturated peak; data reported as estimated.

TPH reported from file #d042919 analyzed on April 29, 2005 at a dilution of 49.4

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130

# AIR TOXICS LTD.

Client Sample ID: VP-4 @ 10

Lab ID#: 0504551AR1-11A

MODIFIED EPA METHOD TO-14A

<b>File Name:</b>	e050810r1	<b>Date of Collection:</b>	4/22/05
<b>Dil. Factor:</b>	2.53	<b>Date of Analysis:</b>	5/8/05 01:10 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Benzene	13	Not Detected	40	Not Detected
Toluene	13	13	48	48
Ethyl Benzene	13	Not Detected	55	Not Detected
m,p-Xylene	13	Not Detected	55	Not Detected
o-Xylene	13	Not Detected	55	Not Detected
2-Propanol	13	140000 E	31	340000 E
Methyl tert-butyl ether	13	Not Detected	46	Not Detected
TPH (C5+ Hydrocarbons) ref. to Gasoline	1000	69000	4100	280000

E = Exceeds instrument calibration range.

TPH reported from file #d042920 analyzed on April 29, 2005 at a dilution of 10.1

**Container Type: 1 Liter Summa Canister**

Surrogates	%Recovery	Method Limits
Toluene-d8	95	70-130

# AIR TOXICS LTD.

Client Sample ID: VP-4 @ 10 Duplicate

Lab ID#: 0504551AR1-11AA

MODIFIED EPA METHOD TO-14A

<b>File Name:</b>	e050811r1	<b>Date of Collection:</b>	4/22/05
<b>Dil. Factor:</b>	2.53	<b>Date of Analysis:</b>	5/8/05 01:36 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Benzene	13	13	40	41
Toluene	13	Not Detected	48	Not Detected
Ethyl Benzene	13	Not Detected	55	Not Detected
m,p-Xylene	13	Not Detected	55	Not Detected
o-Xylene	13	Not Detected	55	Not Detected
2-Propanol	13	150000 E	31	370000 E
Methyl tert-butyl ether	13	Not Detected	46	Not Detected
TPH (C5+ Hydrocarbons) ref. to Gasoline	1000	66000	4100	270000

E = Exceeds instrument calibration range.

TPH reported from file #d042921 analyzed on April 29, 2005 at a dilution of 10.1

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	97	70-130

# AIR TOXICS LTD.

Client Sample ID: Lab Blank

Lab ID#: 0504551AR1-12A

MODIFIED EPA METHOD TO-14A

<b>File Name:</b>	e050412	<b>Date of Collection:</b> NA
<b>Dil. Factor:</b>	1.00	<b>Date of Analysis:</b> 5/4/05 03:29 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Benzene	5.0	Not Detected	16	Not Detected
Toluene	5.0	Not Detected	19	Not Detected
Ethyl Benzene	5.0	Not Detected	22	Not Detected
m,p-Xylene	5.0	Not Detected	22	Not Detected
o-Xylene	5.0	Not Detected	22	Not Detected
2-Propanol	5.0	Not Detected	12	Not Detected
Methyl tert-butyl ether	5.0	Not Detected	18	Not Detected
TPH (C5+ Hydrocarbons) ref. to Gasoline	100	Not Detected	410	Not Detected

TPH reported from file #d042904 analyzed on April 29, 2005 at a dilution of 1.00

**Container Type: NA - Not Applicable**

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130

# AIR TOXICS LTD.

Client Sample ID: Lab Blank

Lab ID#: 0504551AR1-12B

MODIFIED EPA METHOD TO-14A

File Name:	e050706	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	5/7/05 11:04 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Benzene	5.0	Not Detected	16	Not Detected
Toluene	5.0	Not Detected	19	Not Detected
Ethyl Benzene	5.0	Not Detected	22	Not Detected
m,p-Xylene	5.0	Not Detected	22	Not Detected
o-Xylene	5.0	Not Detected	22	Not Detected
2-Propanol	5.0	Not Detected	12	Not Detected
Methyl tert-butyl ether	5.0	Not Detected	18	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	96	70-130

# AIR TOXICS LTD.

Client Sample ID: Lab Blank

Lab ID#: 0504551AR1-12C

MODIFIED EPA METHOD TO-14A

File Name:	e050805	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	5/8/05 11:04 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Benzene	5.0	Not Detected	16	Not Detected
Toluene	5.0	Not Detected	19	Not Detected
Ethyl Benzene	5.0	Not Detected	22	Not Detected
m,p-Xylene	5.0	Not Detected	22	Not Detected
o-Xylene	5.0	Not Detected	22	Not Detected
2-Propanol	5.0	Not Detected	12	Not Detected
Methyl tert-butyl ether	5.0	Not Detected	18	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	94	70-130

# AIR TOXICS LTD.

Client Sample ID: CCV

Lab ID#: 0504551AR1-13A

MODIFIED EPA METHOD TO-14A

File Name:	e050410	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	5/4/05 02:29 PM

Compound	%Recovery
Benzene	108
Toluene	114
Ethyl Benzene	111
m,p-Xylene	124
o-Xylene	110
2-Propanol	111
Methyl tert-butyl ether	96
TPH (C5+ Hydrocarbons) ref. to Gasoline	99

TPH reported from file #d042903 analyzed on April 29, 2005 at a dilution of 1.00

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130



# AIR TOXICS LTD.

Client Sample ID: CCV

Lab ID#: 0504551AR1-13B

MODIFIED EPA METHOD TO-14A

File Name:	e050704	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	5/7/05 09:43 AM

Compound	%Recovery
Benzene	112
Toluene	110
Ethyl Benzene	109
m,p-Xylene	117
o-Xylene	105
2-Propanol	118
Methyl tert-butyl ether	96

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130

# AIR TOXICS LTD.

Client Sample ID: CCV

Lab ID#: 0504551AR1-13C

MODIFIED EPA METHOD TO-14A

File Name:	e050803	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	5/8/05 10:10 AM

Compound	%Recovery
Benzene	108
Toluene	105
Ethyl Benzene	99
m,p-Xylene	109
o-Xylene	96
2-Propanol	112
Methyl tert-butyl ether	96

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	97	70-130

# AIR TOXICS LTD.

Client Sample ID: LCS

Lab ID#: 0504551AR1-14A

MODIFIED EPA METHOD TO-14A

File Name:	e050411	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	5/4/05 03:00 PM

Compound	%Recovery
Benzene	115
Toluene	116
Ethyl Benzene	113
m,p-Xylene	118
o-Xylene	105
2-Propanol	103
Methyl tert-butyl ether	90
TPH (C5+ Hydrocarbons) ref. to Gasoline	87

TPH reported from file #d042923 analyzed on April 29, 2005 at a dilution of 1.00

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130

# AIR TOXICS LTD.

Client Sample ID: LCS

Lab ID#: 0504551AR1-14B

MODIFIED EPA METHOD TO-14A

File Name:	e050705	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	5/7/05 10:26 AM

Compound	%Recovery
Benzene	119
Toluene	116
Ethyl Benzene	118
m,p-Xylene	127
o-Xylene	112
2-Propanol	120
Methyl tert-butyl ether	103

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	96	70-130

# AIR TOXICS LTD.

Client Sample ID: LCS

Lab ID#: 0504551AR1-14C

MODIFIED EPA METHOD TO-14A

File Name:	050804	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	5/8/05 10:40 AM

Compound	%Recovery
Benzene	114
Toluene	109
Ethyl Benzene	104
m,p-Xylene	112
o-Xylene	99
2-Propanol	109
Methyl tert-butyl ether	98

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	96	70-130



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FOLSOM, CA 95630-4719  
(916) 985-1000 FAX (916) 985-1020

**CHAIN-OF-CUSTODY RECORD**

Contact Person: Charlotte Evans  
 Company: Cambridge Environmental Email: CEVANS@CAMBRIDGE-ENV.COM  
 Address: 5900 Hollis St, Ste A City: Emeryville State: CA Zip: 94608  
 Phone: (510) 420-3351 Fax: (510) 420-9170  
 Collected by: (signature) CEVANS

<b>Project Info:</b>		<b>Turn Around Time:</b>	<b>Lab Use Only</b>
Project #	<u>31H-1806-C11</u>	<input checked="" type="checkbox"/> Normal	Pressurized by: <u>JS</u>
P.O. #	<u>31H-1806-C11</u>	<input type="checkbox"/> Rush	Date: <u>4/29/05</u>
Project Name	<u>9-3322</u>	specify	Pressurization Gas: <u>He</u>

Lab I.D.	Field Sample I.D. (Location)	Date	Time	Analyses Requested	Canister Pressure/Vacuum			
					Initial	Final	Receipt	Final (psi)
D1A	VP-1 @ 5	04/21/05	12:06	TPH, BTEX, MTBE by TO-14	-30	-5	1.0"Hg	15.0 psi
D2A	VP-1 @ 5 Test	04/21/05	11:03	CO2 by ASTM 1946	-30	-5	0.5"Hg	
D3A	VP-1 @ 7.5	04/21/05	12:19	<div style="font-size: 4em;">}</div>	-29.5	-5	5.5"Hg	
D4A	VP-1 @ 10	04/21/05	12:28		-30	-5	5.5"Hg	
D5A	VP-2 @ 7.5	04/22/05	8:56		-28	-5	5.5"Hg	
D6A	VP-2 @ 7.5 DUP	04/22/05	8:57		-30	-5	3.0"Hg	
D7A	VP-3 @ 5	04/22/05	7:36		-28	-5	5.5"Hg	
D8A	VP-3 @ 7.5	04/22/05	7:45		-28	-5	6.0"Hg	V

Relinquished by: (signature) <u>CEVANS</u> Date/Time <u>04/21/05 14:10</u>	Received by: (signature) <u>Fluor</u> Date/Time <u>4/28/05 9:35</u>	Notes: <u>935</u>
Relinquished by: (signature) _____ Date/Time _____	Received by: (signature) _____ Date/Time _____	
Relinquished by: (signature) _____ Date/Time _____	Received by: (signature) _____ Date/Time _____	

Lab Use Only	Shipper Name	Air Bill #	Temp. (°C)	Condition	Custody Seals Intact?	Work Order #
	<u>DHL</u>	<u>25440866843</u>	<u>-</u>	<u>Good</u>	Yes No <u>None</u>	<u>0504551A</u>



**Sample Transportation Notice**

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FOLSOM, CA 95630-4719  
(916) 985-1000 FAX (916) 985-1020

Page \_\_\_ of \_\_\_

**CHAIN-OF-CUSTODY RECORD**

Contact Person Charlotte Evans  
 Company Cambridge Environmental Email CEVANS@CAMBRIDGE-ENV.COM  
 Address 5000 Hollis St. City Emeryville State CA Zip 94608  
 Phone (510) 420-3351 Fax (510) 420-9170  
 Collected by: (Signature) CEVANS

<b>Project Info:</b>		<b>Turn Around Time:</b>	<b>Lab Use Only</b>
P.O. #	<u>31H-1806-211</u>	<input checked="" type="checkbox"/> Normal <input type="checkbox"/> Rush <small>specify</small>	Pressurized by: <u>BS</u>
Project #	<u>31H-1806-411</u>		Date: <u>4/29/05</u>
Project Name	<u>9-3322</u>		Pressurization Gas: <input checked="" type="radio"/> N <input type="radio"/> He

Lab I.D.	Field Sample I.D. (Location)	Date	Time	Analyses Requested	Canister Pressure/Vacuum			
					Initial	Final	Receipt	Final (psi)
09A	VP-4 @ 5	<del>04/27/05</del> 04/28/05	5:12	TPH, BTEX, MTBE by TO-14	-27	-5	5.5"Hg	15.0psi
10A	VP-4 @ 7.5	<del>04/27/05</del> 04/28/05	8:22	O <sub>2</sub> & CO <sub>2</sub> by ASTM 1946	-28.5	-5	5.5"Hg	↓
11A	VP-4 @ 10	<del>04/27/05</del> 04/28/05	8:31		-28	-5	6.0"Hg	↓

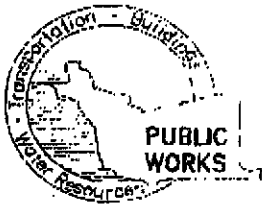
Relinquished by: (signature) <u>CEVANS</u>	Date/Time <u>04/27/05 14:10</u>	Received by: (signature) <u>LAWAL THOMAS</u>	Date/Time <u>04/28/05 9:35</u>	Notes:
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time	
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time	

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	<u>FedEx</u>	<u>25480966843</u>	<u>—</u>	<u>Good</u>	Yes No <input checked="" type="radio"/> None	<u>0504551A</u>

**ATTACHMENT C**

**Alameda County Public Works Agency Drilling Permit**





# ALAMEDA COUNTY PUBLIC WORKS AGENCY

**WATER RESOURCES SECTION**  
399 ELMHURST ST. HAYWARD CA. 94544-1395  
PHONE (510) 670-6633 James You  
FAX (510) 782-1939

www.acfcwcd.org

APPLICANTS: PLEASE ATTACH A SITE MAP FOR ALL DRILLING PERMIT APPLICATIONS  
DESTRUCTION OF WELLS OVER 45 FEET REQUIRES A SEPARATE PERMIT APPLICATION

## DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

FOR OFFICE USE

LOCATION OF PROJECT  
7225 Bancroft Ave.  
Oakland, CA

PERMIT NUMBER W25-0255  
WELL NUMBER \_\_\_\_\_  
APN \_\_\_\_\_

### PERMIT CONDITIONS

(Circled Permit Requirements Apply)

CLIENT  
Name Chevron  
Address PO Box 6212 Phone \_\_\_\_\_  
City San Ramon # 94563

APPLICANT  
Name Cambria Environmental  
(Charlotte Evans)  
Address 2900 Hollis St. Ste A Phone 510-420-3351  
City Emeryville # 94608

TYPE OF PROJECT  
Well Construction  Geotechnical Investigation  
Cathodic Protection  General  
Water Supply  Contamination  
Monitoring  Well Destruction  
*4 Vapor Probes*

PROPOSED WATER SUPPLY WELL USE  
New Domestic  Replacement Domestic   
Municipal  Irrigation   
Industrial  Other

DRILLING METHOD:  
Mud Rotary  Air Rotary  Auger   
Cable  Other

DRILLER'S NAME Gregg Drilling

DRILLER'S LICENSE NO. CS7 482 165

WELL PROJECTS  
Drill Hole Diameter \_\_\_\_\_ in. Maximum \_\_\_\_\_  
 casing Diameter \_\_\_\_\_ in. Depth \_\_\_\_\_ ft.  
 Surface Seal Depth \_\_\_\_\_ ft. Owner's Well Number \_\_\_\_\_

GEOTECHNICAL/CONTAMINATION PROJECTS  
Number of Borings 4 Maximum  
Hole Diameter 6 in. Depth 11.5 ft.

STARTING DATE 03/16/05

COMPLETION DATE 03/17/05

#### A. GENERAL

1. A permit application should be submitted so as to arrive at the ACPWA office five days prior to proposed starting date.
2. Submit to ACPWA within 60 days after completion of permitted original Department of Water Resources-Well Completion Report.  
Permit is void if project not begun within 90 days of approval date.

#### B. WATER SUPPLY WELLS

1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved.

#### C. GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS

\* Well box

1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.

#### D. GEOTECHNICAL/CONTAMINATION

Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-third feet replaced in kind or with compacted crushed

#### E. CATHODIC

Fill hole anode zone with concrete placed by tremie.

#### F. WELL DESTRUCTION

Send a map of work site. A separate permit is required for wells deeper than 45 feet.

#### G. SPECIAL CONDITIONS

BAZ

NOTE: One application must be submitted for each well or well destruction. Multiple borings on one application are acceptable for geotechnical and contamination investigations.

APPROVED \_\_\_\_\_ DATE 3-2-05

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68

APPLICANT'S SIGNATURE Charlotte Evans for Cambria DATE 02/14/05

PLEASE PRINT NAME: Charlotte Evans Rev. 8-1-04