

C A M B R I A

August 7, 2000

00 AUG 23 PM 2:39
ENVIRONMENTAL
PROTECTION

Mr Scott Seery
Alameda County Health Care Services
Department of Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

Re: **Subsurface Investigation Report**
Former Chevron Service Station 9-0329
340 Highland Boulevard
Piedmont, CA

Dear Mr. Seery:



On behalf of Chevron Products Company (Chevron), Cambria Environmental Technology, Inc. (Cambria) is submitting this subsurface investigation report in response to the Alameda County Health Care Services Department of Environmental Health (ACHCSDEH) letter request dated August 10, 1998. The investigation objective was to determine the extent of methyl tert-butyl ether (MTBE) in groundwater and to evaluate whether utility line trenches are acting as preferential pathways for MTBE migration. Data resulting from previous environmental studies indicate that the initial MTBE release occurred mid 1992, two years after Chevron sold the property and station facilities. The site description, background investigation and Cambria's investigation results are summarized below. A site vicinity map and detailed site map are illustrated in Figures 1 and 2, respectively.

SITE DESCRIPTION

The site is a former Chevron service station located at the intersection of Highland Avenue and Highland Way, Piedmont, California (Figure 1). Chevron sold the property and station facilities to Hoffman Investment Company and has had no control over it's operation or maintenance since 1990. It is Chevron's contention that petroleum releases containing MtBE occurred after the property and facilities were sold by Chevron to the Hoffman Investment Company.

The site is on a west sloping hillside and is approximately 345 feet above mean sea level (MSL). Surrounding land use is both commercial and residential. The nearest surface water to the site is a small ephemeral creek located approximately 360 feet southeast of the site.

Site Geology: Subsurface sediments at the site consist of sands, silty gravels, silty clay and weathered sandstone bedrock.

Oakland, CA
San Ramon, CA
Sonoma, CA
Portland, OR

**Cambria
Environmental
Technology, Inc.**

2694 Bishop Drive
Suite 105
San Ramon, CA 94583
Tel (925) 275-3200
Fax (925) 275-3204

Groundwater Depth: Groundwater was encountered at 0.5 feet below ground surface (bgs). Previous investigations have gauged groundwater at depths between 0.5 and 4.25 feet bgs.

Groundwater Flow Direction and Gradient: Groundwater flow direction is typically reported in a southerly direction at a approximate gradient of 0.05.

PREVIOUS INVESTIGATIONS



1983 Gettler-Ryan: In 1983, Gettler-Ryan installed four groundwater monitoring wells at the site (C-1 through C-4, Figure 2). Total petroleum hydrocarbons as gasoline (TPHg) and benzene have been detected in Well C-2 at concentrations up to 56,000 and 2,500 parts per billion (ppb), respectively. TPHg and benzene have been detected in Well C-4 at concentrations up to 1,300 and 5.9 ppb, respectively. TPHg has not been detected in Well C-3 and benzene has sporadically been detected at concentrations up to 4 ppb.

1993 Resna Industries: In 1993, Resna Industries drilled four shallow off-site borings and installed temporary monitoring wells (B-1 through B-4). Petroleum hydrocarbons were not detected in soil samples collected from the borings. Groundwater was not encountered in borings B-1 and B-3 and no petroleum hydrocarbons were detected in groundwater from borings B-2 and B-4. A survey of potential offsite hydrocarbon sources within a one mile radius identified Piedmont City Hall as a potential source of diesel.

1995 Canonie Environmental: In May 1995, Canonie Environmental installed groundwater monitoring well MW-6. No petroleum hydrocarbons were detected in soil samples collected from the boring. The following day well MW-6 became artesian and was subsequently destroyed.

1996 Pacific Environmental Group (PEG): In November 1996, PEG drilled two soil borings and completed them as groundwater monitoring wells C-5 and C-6.

1998 Sierra Environmental Services: In January 1998, Sierra conducted a historical survey of MTBE in monitoring well C-2 to try and determine the age of the MTBE release. Results of the survey indicate MTBE was not present in groundwater before mid 1992, two years after Chevron sold the property and station facilities.

1998 PEG: In May 1998, PEG performed a water well and surface water survey of the site vicinity. PEG identified the City of Piedmont well #4 (0.11 miles south) and the intermittent creek in Piedmont Park (approximately 360 feet southeast) as the nearest sensitive receptors.

SCOPE OF WORK

The scope of work was initially outlined in the PEG work plan dated September 9, 1998. The proposed scope of work was designed to determine the extent of MTBE in groundwater and to evaluate whether utility line trenches act as preferential pathways for migration of MTBE. To complete the objectives six soil borings were proposed adjacent to utility line trenches to obtain water and soil samples.

In response to a meeting with the Alameda County Department of Environmental Health, October 16, 1998, PEG revised the work plan in an Addendum dated December 11, 1998. In the addendum, the number of probes were reduced from six to five and the probes were to be pushed into utility line trenches.

Cambria conducted the fieldwork as specified in the work plan addendum except for the probes were not advanced into the trench backfill. Safety protocol prevented Cambria and Chevron from advancing probes into the backfill of electrical, telephone, water, or sewer lines. In addition, Cambria and Chevron will not assume the liability of discretionarily collecting utility trench backfill samples. Boring locations were relocated within three feet of utility surface markings.

INVESTIGATION RESULTS


The results of the subsurface investigation are summarized below. Tabulated analytical results for soil and groundwater are presented in Tables 1 and 2, respectively. Boring logs are presented as Attachment A. Laboratory reports and chain of custody records of sample analyses are presented as Attachment B. Attachment C contains the Encroachment Permit and historical groundwater data is presented as Attachment D.

Personnel Present: Senior Staff Geologist David Gregory performed the field sampling under the supervision of California Registered Geologist Jim Perkins (RG # 0472).

Permits: City of Piedmont Encroachment Permit (Attachment C)

HYDROCARBON DISTRIBUTION IN GROUNDWATER

Groundwater could only be collected from two of the five borings (U-1, U-4). After leaving borings U-2, U-3, and U-5 open for several hours it was apparent that groundwater was not going to enter the borings, even though the boring depth was greater than historic groundwater elevations.




Groundwater collected from boring U-1, immediately down gradient of the source area, contained 1,000 ug/l TPHg and ~~39,000 ug/L~~ MTBE. Apart from 3.1 ug/l Xylene, no other hydrocarbons or fuel oxygenates were detected in groundwater from boring U-4, approximately 160 feet downgradient of the source area.

SUMMARY OF INVESTIGATION

Soil and groundwater data collected during the investigation indicate that petroleum hydrocarbons including MtBE originated onsite and have migrated offsite to the south. Unfortunately, sampling actual utility trench backfill could not be conducted due to liability and safety concerns regarding damaging public and private utilities.

Results of analyses of soil samples collected in native soil adjacent to the targeted utilities lines indicate no wide spread impact of hydrocarbons in soil. Samples U-1 and U-2 collected adjacent to the electrical and sanitary lines along the north side of Highland Blvd. contained no MtBE, but did contain TPHg and various BTEX constituents. Samples further removed from the site collected from native material adjacent to the storm sewer (samples U-4 and U-5) contained low concentrations of xylenes and no MtBE.

Two water samples were collected from native materials adjacent to utilities bordering the site (U-1) and from the storm sewer south of Highland Avenue (U-4). The water sample collected from the site contained 39,000 ug/l MtBE; whereas, the samples collected adjacent to the storm sewer south of Highland Avenue contained no detectable MtBE.

- 
- Drilling Date:* March 21, 2000.
- Drilling Method:* A 3-inch diameter hand auger.
- Borings:* Five borings were hand augered to refusal or until groundwater was encountered (Attachment A).
- Soil Encountered:* Sandy gravels from 1-3 feet bgs, underlain by fine grained, weathered, well sorted sandstone. Boring U-4 lithology consists of silty, coarse grained, angular pebbles and cobbles to 1 feet bgs, underlain by silty clay.
- Sampling Technique:* Based on field observations, selected soil grab samples were collected from the hand auger into a 2-inch diameter brass sample tube. Grab groundwater samples were collected with plastic disposable bailers.
- Sample Screening:* Photo-ionization detector and visual inspection for staining and discoloration.
- Laboratory Analyses:* Soil and groundwater samples were analyzed for TPHg by EPA Method 8015, benzene, toluene, ethylbenzene, xylene (BTEX) by EPA Method 8020 and fuel oxygenates by EPA Method 8260. A composite sample collected from the soil stockpile was analyzed for TPHg and BTEX by EPA Method 8015/8020 and total lead by EPA Method 6000/7000 series (Attachment B).
- Waste Disposal:* Soil cuttings were stockpiled on site, profiled, and transported by Integrated Waste Management (IWM) of Milpitas, California, to Republic Services Vasco Road landfill in Livermore, California.

HYDROCARBON DISTRIBUTION IN SOIL

Soil samples were collected within 3 feet of the ground surface in all borings. **The highest hydrocarbon concentration detected during the assessment was 1900 mg/kg TPHg in boring U-1 at one foot bgs. U-1 is located at the southern property boundary of the former Chevron Station and was collected from the capillary fringe.** Hydrocarbon concentrations in other borings are below laboratory detection limits, apart from low level Xylene concentrations. **No fuel oxygenates, including MTBE, were detected in soils.**

PROPERTY OWNER INFORMATION

The Alameda County Assessors Office identified Hoffman Investment Company (address shown below) as the current record fee title owner of the site. Receipt of this document serves as notification to the AMCHCSDEH of the property owner name and address as required by Section 25297.15(a) of Ch. 6.7 of the Health and Safety Code.

CLOSING

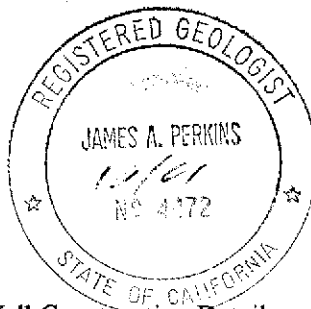


Please call Jim Perkins at (925) 973-3122 if you have any questions or comments regarding this report.

Sincerely,
Cambria Environmental Technology, Inc.

David Gregory
Senior Staff Geologist

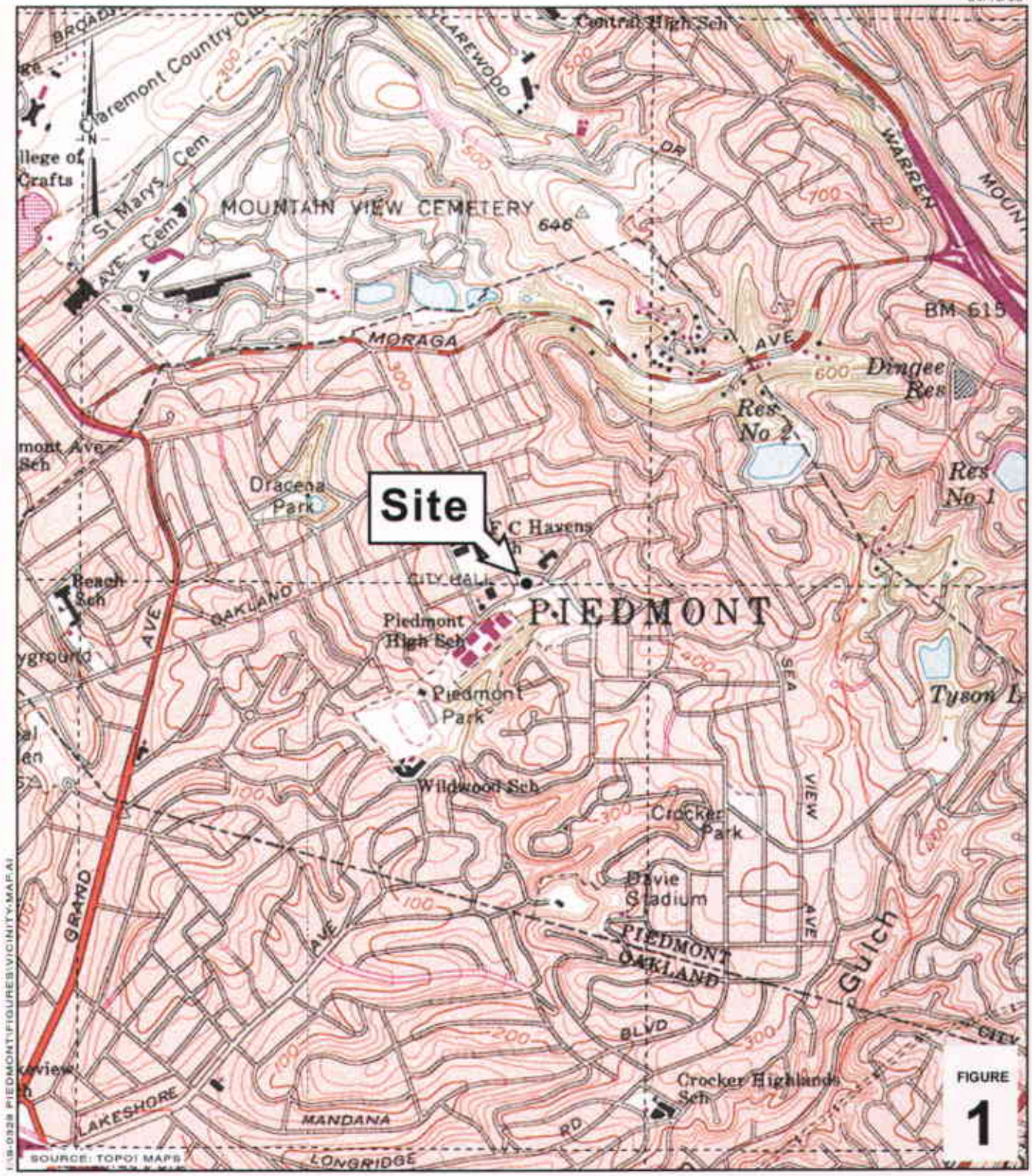
James A Perkins
Project Manager



- Attachments:
- A - Boring Logs and Well Construction Details
 - B - Laboratory Reports and Chain of Custody Records
 - C - Encroachment Permit
 - D - Quarterly Groundwater Monitoring Report

cc:

- Mr. Tom Bauhs, Chevron Products Company
- Ms. Bette Owen, Chevron Products Company (w/o attachments)
- Mr. Chuck Headlee, RWQCB-San Francisco Bay Region, 2101 Webster Street, Hillsborough, CA 94010
- Mr. Frank Hoffman, Hoffman Investment Company, 1760 Willow Road, Hillsborough, CA 94612



1:8-0328 PIEDMONT.FIGURE.VICINITY.MAP.A1

SOURCE: TOPOI MAPS



SCALE : 1" = 1/4 MILE

FIGURE
1

Former Chevron Station 9-0329
 340 Highland Avenue
 Piedmont, California



C A M B R I A

Vicinity Map

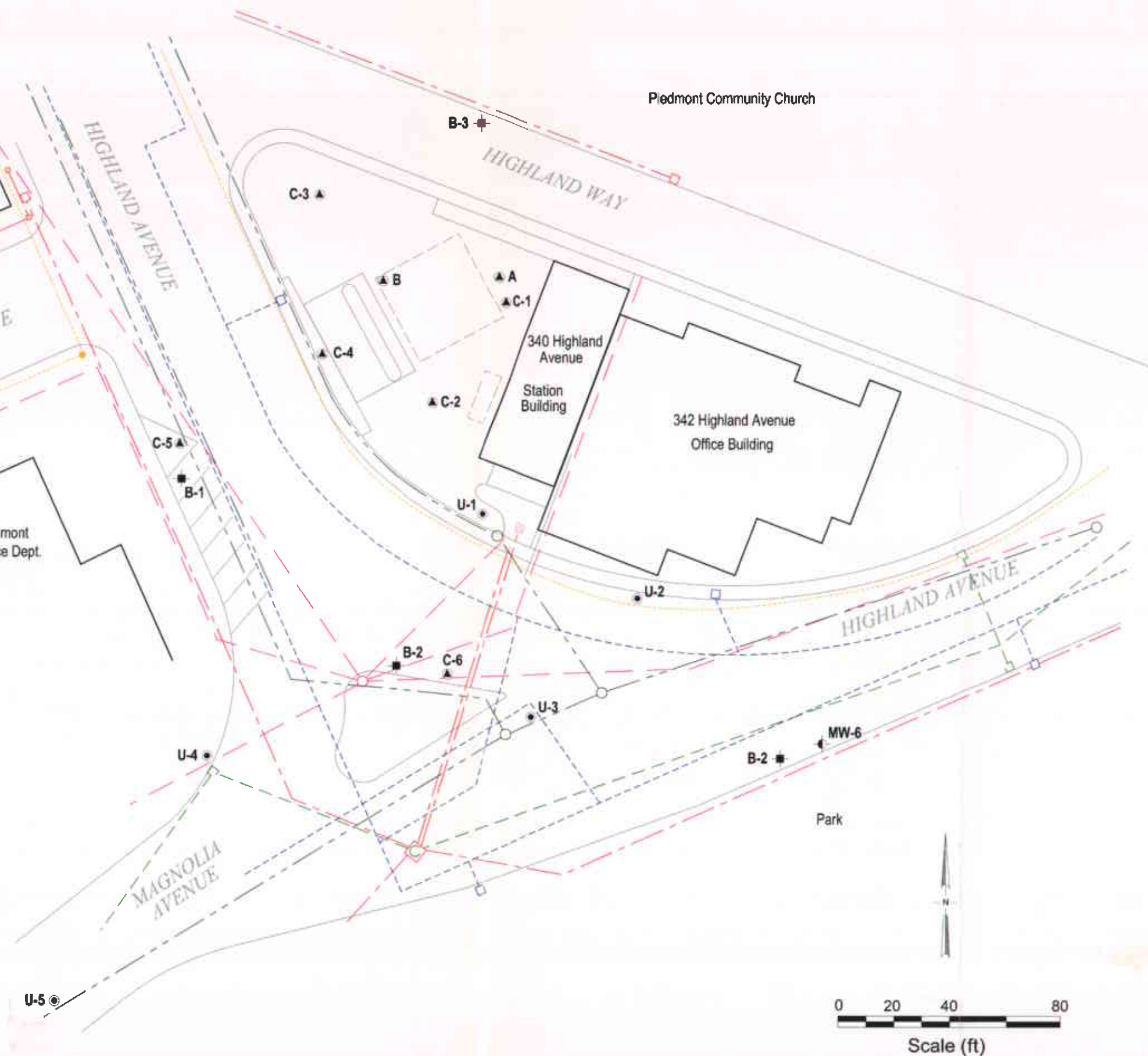


EXPLANATION

- U-1 ● Cambria (2000) soil boring
- B-2 ┆ Gettler-Ryan (1983), PEG (1996) monitoring well
- MW-6 ◐ Resna (1993) monitoring well
- C-1 ▲ Resna (1983) soil boring

Underground Utilities

- Electrical
- Telephone
- Gas
- Storm Drain
- Water
- Sanitary Sewer



Basemap modified from Pacific Environmental Group, Inc.

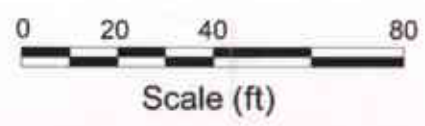
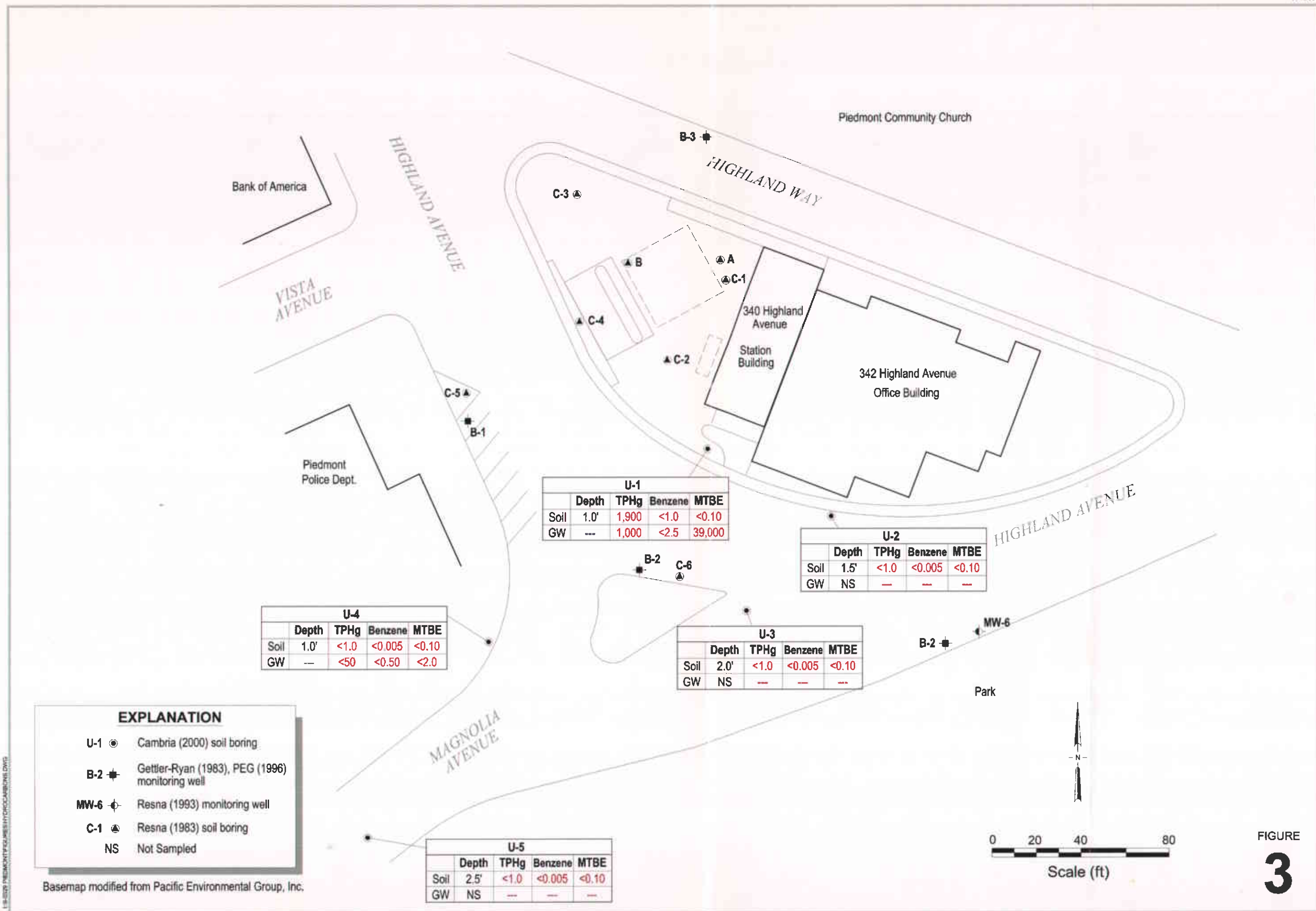


FIGURE
2

19-0329-PIEDMONT-CHEVRON-STATION-PLAN.DWG



U-1				
	Depth	TPHg	Benzene	MTBE
Soil	1.0'	1,900	<1.0	<0.10
GW	---	1,000	<2.5	39,000

U-2				
	Depth	TPHg	Benzene	MTBE
Soil	1.5'	<1.0	<0.005	<0.10
GW	NS	---	---	---

U-3				
	Depth	TPHg	Benzene	MTBE
Soil	2.0'	<1.0	<0.005	<0.10
GW	NS	---	---	---

U-4				
	Depth	TPHg	Benzene	MTBE
Soil	1.0'	<1.0	<0.005	<0.10
GW	---	<50	<0.50	<2.0

U-5				
	Depth	TPHg	Benzene	MTBE
Soil	2.5'	<1.0	<0.005	<0.10
GW	NS	---	---	---

EXPLANATION

- U-1 ● Cambria (2000) soil boring
- B-2 ┆ Gettler-Ryan (1983), PEG (1996) monitoring well
- MW-6 ◐ Resna (1993) monitoring well
- C-1 ▲ Resna (1983) soil boring
- NS Not Sampled

Basemap modified from Pacific Environmental Group, Inc.

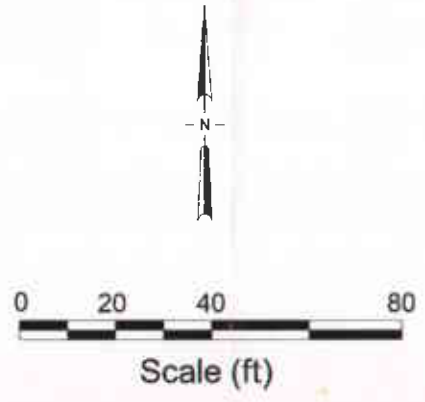


FIGURE 3

Table 1. Soil Analytical Data -Former Chevron Station 9-0329, 340 Highland Ave., Piedmont, California

Sample ID	Date	Depth (feet)	TPHg	Benzene Concentrations in parts per million (ppm)	Toluene	Ethylbenzene	Xylenes	MTBE	Fuel Oxygenates
U1-1	3/21/00	1	1900	< 1.0	< 1.0	3.7	8.1	< 0.10	ND
U2-1.5	3/21/00	1.5	< 1.0	< 0.005	< 0.005	< 0.005	0.021	< 0.10	ND
U3-2	3/21/00	2	< 1.0	< 0.005	< 0.005	< 0.005	0.012	< 0.10	ND
U4-1	3/21/00	1	< 1.0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.10	ND
U5-2.5	3/21/00	2.5	< 1.0	< 0.005	< 0.005	< 0.005	0.0082	< 0.10	ND

Abbreviations / Notes

TPHg = Total petroleum hydrocarbons as gasoline by modified EPA Method 8015

Benzene, toluene, ethylbenzene, and xylenes by EPA Method 8020

MTBE = methyl tert-butyl ether by EPA Method 8260.

Fuel Oxygenates = Ethanol, tert-butyl alcohol, Di-isopropyl ether, Ethyl tert-butyl ether, tert-Amyl methyl ether, 1,2-Dichloroethane, Ethylene dibromide by EPA Method 8260.

<x = concentration less than the laboratory reporting limits

ND=not detected above laboratory reporting limits

CAMBRIA

Table 2. Groundwater Analytical Data - Chevron Station 9-0329, 340 Highland Ave., Piedmont, CA

Sample ID	Date	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Fuel Oxygenates
Concentrations in parts per billion (ppb)								
U-1	3/21/00	1,000	< 2.5	< 2.5	2.9	< 2.5	39,000	ND
U-4	3/21/00	< 50	< 0.50	< 0.50	< 0.50	3.1	< 2.0	ND

Abbreviations / Notes

TPHg = Total petroleum hydrocarbons as gasoline by modified EPA Method 8015

Benzene, toluene, ethylbenzene, and xylenes by EPA Method 8020

MTBE = methyl tert-butyl ether by EPA Method 8260.

Fuel Oxygenates = Ethanol, tert-butyl alcohol, Di-isopropyl ether, Ethyl tert-butyl ether, tert-Amyl methyl ether, 1,2-Dichloroethane, Ethylene dibromide by EPA Method 8260.

<x = concentration less than the laboratory reporting limits

ND=not detected above laboratory reporting limits

ATTACHMENT A

Boring Logs



Cambria Environmental Technology, Inc.
 1144 - 65th St.
 Oakland, CA 94608
 Telephone: (510) 420-0700
 Fax: (510) 420-9170

BORING/WELL LOG

CLIENT NAME	Chevron Products Company	BORING/WELL NAME	U-1
JOB/SITE NAME	9-0329	DRILLING STARTED	21-Mar-00
LOCATION	340 Highland Avenue, Piedmont, CA	DRILLING COMPLETED	21-Mar-00
PROJECT NUMBER	31A-1776	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER		GROUND SURFACE ELEVATION	Not Surveyed
DRILLING METHOD	Hand Auger	TOP OF CASING ELEVATION	NA
BORING DIAMETER	3 inch	SCREENED INTERVAL	NA
LOGGED BY	David Gregory	DEPTH TO WATER (First Encountered)	▽
REVIEWED BY	Jim Perkins, RG	DEPTH TO WATER (Static)	NA ▼

REMARKS

TPHg (mg/kg)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	WELL DIAGRAM
		US1-1					Asphalt	0.3	
					SM		Silty GRAVEL with sand: Olive grey; Most, 10% clay, 10% silt, 40% medium grained sand, 40% medium grained subrounded gravels, high estimated permeability	1.0	
					SP		Silty SAND: dark greyish brown; most, 5% clay, 25% silt, 70% fine grained well sorted sand, medium estimated permeability.	3.0	← Bentonite Seal
		US1-5		5			SAND: brownish yellow; damp, 100% fine grained well sorted sand, high estimated permeability.	5.0	Bottom of Boring @ 5 ft
							Sample U1 - 4 voa's collected @ 5.10 pm		



Cambria Environmental Technology, Inc.
 1144 - 65th St.
 Oakland, CA 94608
 Telephone: (510) 420-0700
 Fax: (510) 420-9170

BORING/WELL LOG

CLIENT NAME	Chevron Products Company	BORING/WELL NAME	U-2
JOB/SITE NAME	9-0329	DRILLING STARTED	21-Mar-00
LOCATION	340 Highland Avenue, Piedmont, CA	DRILLING COMPLETED	21-Mar-00
PROJECT NUMBER	31A-1776	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER		GROUND SURFACE ELEVATION	Not Surveyed
DRILLING METHOD	Hand Auger	TOP OF CASING ELEVATION	NA
BORING DIAMETER	3 inch	SCREENED INTERVAL	NA
LOGGED BY	David Gregory	DEPTH TO WATER (First Encountered)	▽
REVIEWED BY	Jim Perkins, RG	DEPTH TO WATER (Static)	NA ▼

REMARKS

TPHg (mg/kg)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	WELL DIAGRAM
		US2-1.5			SM SP		Asphalt Silty SAND with gravel: dark greyish brown; dry, 15% silt, 45% medium grained sand, 40% fine grained angular gravels, high estimated permeability. SAND: olive grey; dry, 10% silt, 90% fine grained well sorted sand, high estimated permeability.	0.5 1.0 2.5	Bentonite Seal Bottom of Boring @ 2.5 ft
							refusal @ 2.5 feet, sandstone bedrock		



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 Oakland, CA 94608
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BORING/WELL LOG

CLIENT NAME	Chevron Products Company	BORING/WELL NAME	U-3
JOB/SITE NAME	9-0329	DRILLING STARTED	21-Mar-00
LOCATION	340 Highland Avenue, Piedmont, CA	DRILLING COMPLETED	21-Mar-00
PROJECT NUMBER	31A-1776	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER		GROUND SURFACE ELEVATION	Not Surveyed
DRILLING METHOD	Hand Auger	TOP OF CASING ELEVATION	NA
BORING DIAMETER	3 inch	SCREENED INTERVAL	NA
LOGGED BY	David Gregory	DEPTH TO WATER (First Encountered)	
REVIEWED BY	Jim Perkins, RG	DEPTH TO WATER (Static)	NA

REMARKS

TPHg (mg/kg)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	WELL DIAGRAM
		US3-2		0.5	GP		Poorly graded GRAVEL with sand: dark olive gray; damp, 40% medium-coarse grained sand, 60% medium grained subrounded gravels, high estimated permeability. SAND: brownish yellow, damp, 100% fine grained well sorted sand, moderate estimated permeability.	0.5	Bentonite Seal Bottom of Boring @ 3 ft
				1.0	SP			3.0	
							refusal @ 3 feet, sandstone bedrock		



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 1144 - 65th St.
 Oakland, CA 94608
 Telephone: (510) 420-0700
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BORING/WELL LOG

CLIENT NAME	Chevron Products Company	BORING/WELL NAME	U-4
JOB/SITE NAME	9-0329	DRILLING STARTED	21-Mar-00
LOCATION	340 Highland Avenue, Piedmont, CA	DRILLING COMPLETED	21-Mar-00
PROJECT NUMBER	31A-1776	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER		GROUND SURFACE ELEVATION	Not Surveyed
DRILLING METHOD	Hand Auger	TOP OF CASING ELEVATION	NA
BORING DIAMETER	3 inch	SCREENED INTERVAL	NA
LOGGED BY	David Gregory	DEPTH TO WATER (First Encountered)	0.2 ft
REVIEWED BY	Jim Perkins, RG	DEPTH TO WATER (Static)	NA
REMARKS			

TPHg (mg/kg)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	WELL DIAGRAM
		US4-1			GM CL		Concrete Silty GRAVEL: dark reddish brown; wet, 15% clay, 20% silt, 75% angular coarse gravel and cobbles, high estimated permeability. CLAY: greyish green, damp, 70% clay, 30% silt, low estimated permeability.	0.2 0.8 1.2	← Bentonite Seal Bottom of Boring @ 1.2 ft
							Sample U4 - 3 voa's @ 4.30pm		

WELL LOG (TPH-G) (19-0329)GINT.GPJ DEFAULT GDT 3/24/00



Cambria Environmental Technology, Inc.
 1144 - 65th St.
 Oakland, CA 94608
 Telephone: (510) 420-0700
 Fax: (510) 420-9170

BORING/WELL LOG

CLIENT NAME	Chevron Products Company	BORING/WELL NAME	U-5
JOB/SITE NAME	9-0329	DRILLING STARTED	21-Mar-00
LOCATION	340 Highland Avenue, Piedmont, CA	DRILLING COMPLETED	21-Mar-00
PROJECT NUMBER	31A-1776	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER		GROUND SURFACE ELEVATION	Not Surveyed
DRILLING METHOD	Hand Auger	TOP OF CASING ELEVATION	NA
BORING DIAMETER	3 inch	SCREENED INTERVAL	NA
LOGGED BY	David Gregory	DEPTH TO WATER (First Encountered)	
REVIEWED BY	Jim Perkins, RG	DEPTH TO WATER (Static)	NA
REMARKS			

TPHg (mg/kg)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	WELL DIAGRAM
		US5-2.5			GP SM		<p>Asphalt</p> <p>Poorly graded GRAVEL with sand: olive gray; dry, 20% coarse grained sand, 80% medium grained subrounded gravel, high estimated permeability.</p> <p>Silty SAND with gravel: yellowish brown; damp, 15% silt, 45% medium grained sand, 40% medium grained subangular gravels, high estimated permeability.</p> <p>refusal @ 2.5 feet, sandstone bedrock</p>	0.5 1.0 2.5	Bottom of Boring @ 2.5 ft

WELL LOG (TPH.C) I:\9-0329\GINT.GPJ, DEFAULT, GDT, 3/24/00

ATTACHMENT B

Laboratory Reports and Chain of Custody Records



Sequoia Analytical

404 N. Wiget Lane
Walnut Creek, CA 94598
(925) 988-9600
FAX (925) 988-9673
www.sequoialabs.com

6 April, 2000

David Gregory
Cambria - San Ramon
2694 Bishop Drive Suite 105
San Ramon, CA 94583

RE: Chevron
Sequoia Report: W003541

Enclosed are the results of analyses for samples received by the laboratory on 22-Mar-00 17:20. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Dimple Sharma
Project Manager

CA ELAP Certificate #1271





Cambria - San Ramon
2694 Bishop Drive Suite 105
San Ramon CA, 94583

Project: Chevron
Project Number: Chevron # 9-0329
Project Manager: David Gregory

Reported:
06-Apr-00 17:41

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
US1-1'	W003541-01	Soil	21-Mar-00 08:35	22-Mar-00 17:20
US2-1.5'	W003541-02	Soil	21-Mar-00 15:15	22-Mar-00 17:20
US3-2'	W003541-03	Soil	21-Mar-00 12:20	22-Mar-00 17:20
US4-1'	W003541-04	Soil	21-Mar-00 14:00	22-Mar-00 17:20
US5-2.5'	W003541-05	Soil	21-Mar-00 11:00	22-Mar-00 17:20
U1	W003541-06	Water	21-Mar-00 17:10	22-Mar-00 17:20
U4	W003541-07	Water	21-Mar-00 16:30	22-Mar-00 17:20

Sequoia Analytical - Walnut Creek

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.


Dimple Sharma, Project Manager





Cambria - San Ramon
2694 Bishop Drive Suite 105
San Ramon CA, 94583

Project: Chevron
Project Number: Chevron # 9-0329
Project Manager: David Gregory

Reported:
06-Apr-00 17:41

Total Purgeable Hydrocarbons (C6-C12) and BTEX by DHS LUFT Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
US1-1' (W003541-01) Soil Sampled: 21-Mar-00 08:35 Received: 22-Mar-00 17:20									P-04
Purgeable Hydrocarbons	1900	200	mg/kg	4000	0D03004	02-Apr-00	04-Apr-00	DHS LUFT	
Benzene	ND	1.0	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	3.7	1.0	"	"	"	"	"	"	
Xylenes (total)	8.1	1.0	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		%	40-140		"	"	"	"	S-01
US2-1.5' (W003541-02) Soil Sampled: 21-Mar-00 15:15 Received: 22-Mar-00 17:20									
Purgeable Hydrocarbons	ND	1.0	mg/kg	20	0D03004	02-Apr-00	03-Apr-00	DHS LUFT	
Benzene	ND	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.021	0.0050	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		74.3 %	40-140		"	"	"	"	
US3-2' (W003541-03) Soil Sampled: 21-Mar-00 12:20 Received: 22-Mar-00 17:20									
Purgeable Hydrocarbons	ND	1.0	mg/kg	20	0D03004	02-Apr-00	03-Apr-00	DHS LUFT	
Benzene	ND	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.012	0.0050	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		79.3 %	40-140		"	"	"	"	
US4-1' (W003541-04) Soil Sampled: 21-Mar-00 14:00 Received: 22-Mar-00 17:20									
Purgeable Hydrocarbons	ND	1.0	mg/kg	20	0D03004	02-Apr-00	03-Apr-00	DHS LUFT	
Benzene	ND	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		73.3 %	40-140		"	"	"	"	





Cambria - San Ramon
2694 Bishop Drive Suite 105
San Ramon CA, 94583

Project: Chevron
Project Number: Chevron # 9-0329
Project Manager: David Gregory

Reported:
06-Apr-00 17:41

Total Purgeable Hydrocarbons (C6-C12) and BTEX by DHS LUFT

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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US5-2.5' (W003541-05) Soil Sampled: 21-Mar-00 11:00 Received: 22-Mar-00 17:20

Purgeable Hydrocarbons	ND	1.0	mg/kg	20	0D03004	02-Apr-00	03-Apr-00	DHS LUFT	
Benzene	ND	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.0082	0.0050	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		80.0 %	40-140		"	"	"	"	

U1 (W003541-06) Water Sampled: 21-Mar-00 17:10 Received: 22-Mar-00 17:20

P-01

Purgeable Hydrocarbons	1000	250	ug/l	5	0C28003	28-Mar-00	28-Mar-00	DHS LUFT	
Benzene	ND	2.5	"	"	"	"	"	"	
Toluene	ND	2.5	"	"	"	"	"	"	
Ethylbenzene	2.9	2.5	"	"	"	"	"	"	
Xylenes (total)	ND	2.5	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		92.0 %	70-130		"	"	"	"	

U4 (W003541-07) Water Sampled: 21-Mar-00 16:30 Received: 22-Mar-00 17:20

Purgeable Hydrocarbons	ND	50	ug/l	1	0C28003	28-Mar-00	28-Mar-00	DHS LUFT	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	3.1	0.50	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		108 %	70-130		"	"	"	"	





Cambria - San Ramon
2694 Bishop Drive Suite 105
San Ramon CA, 94583

Project: Chevron
Project Number: Chevron # 9-0329
Project Manager: David Gregory

Reported:
06-Apr-00 17:41

Volatile Organic Compounds by EPA Method 8260A Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
US1-1' (W003541-01) Soil Sampled: 21-Mar-00 08:35 Received: 22-Mar-00 17:20									
Ethanol	ND	25	mg/kg	100	0C27020	24-Mar-00	24-Mar-00	EPA 8260A	
tert-Butyl alcohol	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.10	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.10	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.10	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.10	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	0.10	"	"	"	"	"	"	
1,2-Dibromoethane	ND	0.10	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		100 %	50-150		"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		94.0 %	50-150		"	"	"	"	
US2-1.5' (W003541-02) Soil Sampled: 21-Mar-00 15:15 Received: 22-Mar-00 17:20									
Ethanol	ND	25	mg/kg	100	0C27020	24-Mar-00	24-Mar-00	EPA 8260A	
tert-Butyl alcohol	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.10	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.10	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.10	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.10	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	0.10	"	"	"	"	"	"	
1,2-Dibromoethane	ND	0.10	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		92.0 %	50-150		"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		82.0 %	50-150		"	"	"	"	
US3-2' (W003541-03) Soil Sampled: 21-Mar-00 12:20 Received: 22-Mar-00 17:20									
Ethanol	ND	25	mg/kg	100	0C27020	24-Mar-00	24-Mar-00	EPA 8260A	
tert-Butyl alcohol	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.10	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.10	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.10	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.10	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	0.10	"	"	"	"	"	"	
1,2-Dibromoethane	ND	0.10	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		90.0 %	50-150		"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		76.0 %	50-150		"	"	"	"	





Cambria - San Ramon
2694 Bishop Drive Suite 105
San Ramon CA, 94583

Project: Chevron
Project Number: Chevron # 9-0329
Project Manager: David Gregory

Reported:
06-Apr-00 17:41

Volatile Organic Compounds by EPA Method 8260A Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
US4-1' (W003541-04) Soil Sampled: 21-Mar-00 14:00 Received: 22-Mar-00 17:20									
Ethanol	ND	25	mg/kg	100	0C27020	24-Mar-00	24-Mar-00	EPA 8260A	
tert-Butyl alcohol	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.10	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.10	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.10	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.10	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	0.10	"	"	"	"	"	"	
1,2-Dibromoethane	ND	0.10	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		90.0 %	50-150		"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		78.0 %	50-150		"	"	"	"	
US5-2.5' (W003541-05) Soil Sampled: 21-Mar-00 11:00 Received: 22-Mar-00 17:20									
Ethanol	ND	25	mg/kg	100	0C27020	24-Mar-00	24-Mar-00	EPA 8260A	
tert-Butyl alcohol	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.10	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.10	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.10	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.10	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	0.10	"	"	"	"	"	"	
1,2-Dibromoethane	ND	0.10	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		90.0 %	50-150		"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		76.0 %	50-150		"	"	"	"	
U1 (W003541-06) Water Sampled: 21-Mar-00 17:10 Received: 22-Mar-00 17:20									
Ethanol	ND	250000	ug/l	500	0C27024	27-Mar-00	27-Mar-00	EPA 8260A	
tert-Butyl alcohol	ND	50000	"	"	"	"	"	"	
Methyl tert-butyl ether	39000	1000	"	"	"	"	"	"	
Di-isopropyl ether	ND	1000	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	1000	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	1000	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1000	"	"	"	"	"	"	
Ethylene dibromide	ND	1000	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		102 %	50-150		"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		88.0 %	50-150		"	"	"	"	





Cambria - San Ramon
2694 Bishop Drive Suite 105
San Ramon CA, 94583

Project: Chevron
Project Number: Chevron # 9-0329
Project Manager: David Gregory

Reported:
06-Apr-00 17:41

**Volatile Organic Compounds by EPA Method 8260A
Sequoia Analytical - Walnut Creek**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
U4 (W003541-07) Water Sampled: 21-Mar-00 16:30 Received: 22-Mar-00 17:20									
Ethanol	ND	500	ug/l	1	0C27024	27-Mar-00	27-Mar-00	EPA 8260A	
tert-Butyl alcohol	ND	100	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	2.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	2.0	"	"	"	"	"	"	
Ethylene dibromide	ND	2.0	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		104 %		50-150	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		90.0 %		50-150	"	"	"	"	





Cambria - San Ramon
2694 Bishop Drive Suite 105
San Ramon CA, 94583

Project: Chevron
Project Number: Chevron # 9-0329
Project Manager: David Gregory

Reported:
06-Apr-00 17:41

**Total Purgeable Hydrocarbons (C6-C12) and BTEX by DHS LUFT - Quality Control
Sequoia Analytical - Walnut Creek**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 0C28003 - EPA 5030B [P/T]										
Blank (0C28003-BLK1)										
Prepared & Analyzed: 28-Mar-00										
Purgeable Hydrocarbons	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	32.2		"	30.0		107	70-130			
LCS (0C28003-BS1)										
Prepared & Analyzed: 28-Mar-00										
Benzene	21.8	0.50	ug/l	20.0		109	70-130			
Toluene	22.0	0.50	"	20.0		110	70-130			
Ethylbenzene	22.0	0.50	"	20.0		110	70-130			
Xylenes (total)	63.6	0.50	"	60.0		106	70-130			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	29.0		"	30.0		96.7	70-130			
Matrix Spike (0C28003-MS1)										
Source: W003451-02										
Prepared & Analyzed: 28-Mar-00										
Benzene	23.0	0.50	ug/l	20.0	0.98	110	70-130			
Toluene	22.5	0.50	"	20.0	ND	113	70-130			
Ethylbenzene	22.4	0.50	"	20.0	ND	112	70-130			
Xylenes (total)	64.2	0.50	"	60.0	ND	107	70-130			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	30.8		"	30.0		103	70-130			
Matrix Spike Dup (0C28003-MSD1)										
Source: W003451-02										
Prepared & Analyzed: 28-Mar-00										
Benzene	22.3	0.50	ug/l	20.0	0.98	107	70-130	3.09	20	
Toluene	21.7	0.50	"	20.0	ND	109	70-130	3.62	20	
Ethylbenzene	21.7	0.50	"	20.0	ND	109	70-130	3.17	20	
Xylenes (total)	62.9	0.50	"	60.0	ND	105	70-130	2.05	20	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	28.6		"	30.0		95.3	70-130			





Cambria - San Ramon
2694 Bishop Drive Suite 105
San Ramon CA, 94583

Project: Chevron
Project Number: Chevron # 9-0329
Project Manager: David Gregory

Reported:
06-Apr-00 17:41

Total Purgeable Hydrocarbons (C6-C12) and BTEX by DHS LUFT - Quality Control Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 0D03004 - EPA 5030B [MeOH]

Blank (0D03004-BLK1)

Prepared: 02-Apr-00 Analyzed: 03-Apr-00

Purgeable Hydrocarbons	ND	1.0	mg/kg							
Benzene	ND	0.0050	"							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.0050	"							

Surrogate: a,a,a-Trifluorotoluene	0.560		"	0.600		93.3	40-140			
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LCS (0D03004-BS1)

Prepared: 02-Apr-00 Analyzed: 03-Apr-00

Benzene	0.676	0.0050	mg/kg	0.800		84.5	50-150			
Toluene	0.734	0.0050	"	0.800		91.8	50-150			
Ethylbenzene	0.782	0.0050	"	0.800		97.7	50-150			
Xylenes (total)	2.31	0.0050	"	2.40		96.2	50-150			

Surrogate: a,a,a-Trifluorotoluene	0.606		"	0.600		101	40-140			
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Matrix Spike (0D03004-MS1)

Source: W003564-35

Prepared: 02-Apr-00 Analyzed: 03-Apr-00

Benzene	0.796	0.0050	mg/kg	0.800	ND	99.5	50-150			
Toluene	0.832	0.0050	"	0.800	ND	104	50-150			
Ethylbenzene	0.864	0.0050	"	0.800	ND	108	50-150			
Xylenes (total)	2.54	0.0050	"	2.40	ND	106	50-150			

Surrogate: a,a,a-Trifluorotoluene	0.556		"	0.600		92.7	40-140			
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Matrix Spike Dup (0D03004-MSD1)

Source: W003564-35

Prepared: 02-Apr-00 Analyzed: 03-Apr-00

Benzene	0.848	0.0050	mg/kg	0.800	ND	106	50-150	6.33	20	
Toluene	0.890	0.0050	"	0.800	ND	111	50-150	6.74	20	
Ethylbenzene	0.902	0.0050	"	0.800	ND	113	50-150	4.30	20	
Xylenes (total)	2.64	0.0050	"	2.40	ND	110	50-150	3.86	20	

Surrogate: a,a,a-Trifluorotoluene	0.598		"	0.600		99.7	40-140			
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Cambria - San Ramon
2694 Bishop Drive Suite 105
San Ramon CA, 94583

Project: Chevron
Project Number: Chevron # 9-0329
Project Manager: David Gregory

Reported:
06-Apr-00 17:41

Volatile Organic Compounds by EPA Method 8260A - Quality Control Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 0C27020 - EPA 5030B [MeOH]

Blank (0C27020-BLK2)

Prepared: 24-Mar-00 Analyzed: 25-Mar-00

Ethanol	ND	25	mg/kg							
tert-Butyl alcohol	ND	5.0	"							
Methyl tert-butyl ether	ND	0.10	"							
Di-isopropyl ether	ND	0.10	"							
Ethyl tert-butyl ether	ND	0.10	"							
1,2-Dichloroethane	ND	0.10	"							
tert-Amyl methyl ether	ND	0.10	"							
1,2-Dibromoethane	ND	0.10	"							

Surrogate: Dibromofluoromethane

2.25 " 2.50 90.0 50-150

Surrogate: 1,2-Dichloroethane-d4

1.95 " 2.50 78.0 50-150

LCS (0C27020-BS2)

Prepared & Analyzed: 24-Mar-00

Methyl tert-butyl ether	2.22	0.10	mg/kg	2.50		88.8	70-130			
Surrogate: Dibromofluoromethane	2.25		"	2.50		90.0	50-150			
Surrogate: 1,2-Dichloroethane-d4	1.95		"	2.50		78.0	50-150			

Matrix Spike (0C27020-MS1)

Source: W003481-01

Prepared: 22-Mar-00 Analyzed: 24-Mar-00

Methyl tert-butyl ether	2.47	0.10	mg/kg	2.50	ND	98.8	60-140			
Surrogate: Dibromofluoromethane	2.35		"	2.50		94.0	50-150			
Surrogate: 1,2-Dichloroethane-d4	1.95		"	2.50		78.0	50-150			

Matrix Spike Dup (0C27020-MSD1)

Source: W003481-01

Prepared: 22-Mar-00 Analyzed: 24-Mar-00

Methyl tert-butyl ether	1.86	0.10	mg/kg	2.50	ND	74.4	60-140	28.2	25	Q-01
Surrogate: Dibromofluoromethane	2.30		"	2.50		92.0	50-150			
Surrogate: 1,2-Dichloroethane-d4	1.95		"	2.50		78.0	50-150			

Batch 0C27024 - EPA 5030B [P/T]

Blank (0C27024-BLK1)

Prepared & Analyzed: 27-Mar-00

Ethanol	ND	500	ug/l							
tert-Butyl alcohol	ND	100	"							
Methyl tert-butyl ether	ND	2.0	"							
Di-isopropyl ether	ND	2.0	"							
Ethyl tert-butyl ether	ND	2.0	"							
tert-Amyl methyl ether	ND	2.0	"							
1,2-Dichloroethane	ND	2.0	"							





Cambria - San Ramon
2694 Bishop Drive Suite 105
San Ramon CA, 94583

Project: Chevron
Project Number: Chevron # 9-0329
Project Manager: David Gregory

Reported:
06-Apr-00 17:41

**Volatile Organic Compounds by EPA Method 8260A - Quality Control
Sequoia Analytical - Walnut Creek**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 0C27024 - EPA 5030B [P/T]										
Blank (0C27024-BLK1)				Prepared & Analyzed: 27-Mar-00						
Ethylene dibromide	ND	2.0	ug/l							
Surrogate: Dibromofluoromethane	50.0		"	50.0		100	50-150			
Surrogate: 1,2-Dichloroethane-d4	44.0		"	50.0		88.0	50-150			
LCS (0C27024-BS1)				Prepared & Analyzed: 27-Mar-00						
Methyl tert-butyl ether	47.5	2.0	ug/l	50.0		95.0	70-130			
Surrogate: Dibromofluoromethane	48.0		"	50.0		96.0	50-150			
Surrogate: 1,2-Dichloroethane-d4	41.0		"	50.0		82.0	50-150			
Matrix Spike (0C27024-MS1)				Source: W003585-02		Prepared & Analyzed: 27-Mar-00				
Methyl tert-butyl ether	51.4	2.0	ug/l	50.0	5.6	91.6	60-150			
Surrogate: Dibromofluoromethane	47.0		"	50.0		94.0	50-150			
Surrogate: 1,2-Dichloroethane-d4	38.0		"	50.0		76.0	50-150			
Matrix Spike Dup (0C27024-MSD1)				Source: W003585-02		Prepared & Analyzed: 27-Mar-00				
Methyl tert-butyl ether	54.8	2.0	ug/l	50.0	5.6	98.4	60-150	6.40	25	
Surrogate: Dibromofluoromethane	47.0		"	50.0		94.0	50-150			
Surrogate: 1,2-Dichloroethane-d4	40.0		"	50.0		80.0	50-150			





Cambria - San Ramon
2694 Bishop Drive Suite 105
San Ramon CA, 94583

Project: Chevron
Project Number: Chevron # 9-0329
Project Manager: David Gregory

Reported:
06-Apr-00 17:41

Notes and Definitions

- P-01 Chromatogram Pattern: Gasoline C6-C12
- P-04 Chromatogram Pattern: Gasoline C6-C12 + Unidentified Hydrocarbons C6-C12
- Q-01 The spike recovery for this QC sample is outside of established control limits. Review of associated batch QC indicates the recovery for this analyte does not represent an out-of-control condition for the batch.
- S-01 The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interferences.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference



fax copy of Lab Report and COC to Chevron Contact: Yes No

Chain-of-Custody-Record

Chevron U.S.A. Inc.
P.O. BOX 5004
San Ramon, CA 94583
FAX (415)842-9591

Chevron Facility Number 9-0329
Facility Address 340 Highland Ave, Piedmont, CA
Consultant Project Number 31A-1776
Consultant Name Cambria
Address 2694 Bishop Dr, Ste 105, San Ramon, 94583
Project Contact (Name) David Gregory
(Phone) 925 973 3127 (Fax Number) 925 275 3204

Chevron Contact (Name) Tom Barks
(Phone) _____
Laboratory Name Sequoia
Laboratory Release Number W003541
Samples Collected by (Name) David Gregory
Collection Date 3/21/00
Signature David Gregory

Sample Number	Lab Sample Number	Number of Carboys	Matrix S = Soil W = Water G = Charcoal	Type C = Grab D = Composite O = Discrete	Time	Sample Preservation	Iced (Yes or No)	Analytes To Be Performed											Remarks								
								TEX + TPH GAS (8020 + 8015)	TPH Diesel (8015)	Oil and Grease (8020)	Pyrethroid Pesticides (8010)	Pesticide Aromatics (8020)	Pyrethroid Organics (8240)	Extractable Organics (8270)	Metals Cd, Cr, Pb, Zn, Ni, Cu, or As	Fuel Organics EPA Method 8260											
US1-1'	01A	1	S	G	8:35	NA	Y	X																			
US2-15'	02	1	S	G	3:15	NA	Y	X																			
US3-2'	03	1	S	G	12:20	NA	Y	X																			
US4-1'	04	1	S	G	2:00	NA	Y	X																			
US5-25'	05V	1	S	G	11:00	NA	Y	X																			
US1-5'	05	1	S	G	09:35	NA	Y	X																			
U1	06AD	4	W	G	5:10	HLL	Y	X																			HOLD
U4	07AC	3	W	G	4:30	HLL	Y	X																			

Relinquished By (Signature) <u>David Gregory</u>	Organization <u>CAMBRIA</u>	Date/Time <u>11:30 3/22/00</u>	Received By (Signature) <u>Will H</u>	Organization <u>Seq. An.</u>	Date/Time <u>17:00 3/22/00</u>	Received For Laboratory By (Signature) <u>Will H</u>	Date/Time <u>7:15 3/17/00</u>	Turn Around Time (Circle Choice) 24 Hrs. 48 Hrs. 5 Days <u>10 Days</u> As Contracted
Relinquished By (Signature) <u>Will H</u>	Organization <u>Seq. An.</u>	Date/Time <u>17:00 3/22/00</u>	Received By (Signature)	Organization <u>Seq. An.</u>	Date/Time <u>3/22/00</u>	Received For Laboratory By (Signature)	Date/Time	
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature)	Date/Time	

COC-3.0/WS/03 81/MCH

270 888 9673: # 2



Sequoia Analytical

404 N. Wiget Lane
Walnut Creek, CA 94598
(925) 988-9600
FAX (925) 988-9673
www.sequoialabs.com

29 March, 2000

David Gregory
Cambria - San Ramon
2694 Bishop Drive Suite 105
San Ramon, CA 94583

RE: Chevron
Sequoia Report: W003532

Enclosed are the results of analyses for samples received by the laboratory on 22-Mar-00 17:20. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Dimple Sharma
Project Manager

CA ELAP Certificate #1271





Cambria - San Ramon
2694 Bishop Drive Suite 105
San Ramon CA, 94583

Project: Chevron
Project Number: Chevron # 9-0329
Project Manager: David Gregory

Reported:
29-Mar-00 12:39

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SP	W003532-01	Soil	21-Mar-00 00:00	22-Mar-00 17:20





Cambria - San Ramon
2694 Bishop Drive Suite 105
San Ramon CA, 94583

Project: Chevron
Project Number: Chevron # 9-0329
Project Manager: David Gregory

Reported:
29-Mar-00 12:39

Total Purgeable Hydrocarbons (C6-C12) and BTEX by DHS LUFT
Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP (W003532-01) Soil Sampled: 21-Mar-00 00:00 Received: 22-Mar-00 17:20									P-01
Purgeable Hydrocarbons	3.9	1.0	mg/kg	20	0C23020	23-Mar-00	23-Mar-00	DHS LUFT	
Benzene	0.0061	0.0050	"	"	"	"	"	"	
Toluene	0.0057	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.0085	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.026	0.0050	"	"	"	"	"	"	
Surrogate: <i>a,a,a</i> -Trifluorotoluene		105 %	40-140		"	"	"	"	





Cambria - San Ramon
2694 Bishop Drive Suite 105
San Ramon CA, 94583

Project: Chevron
Project Number: Chevron # 9-0329
Project Manager: David Gregory

Reported:
29-Mar-00 12:39

**Total Metals by EPA 6000/7000 Series Methods
Sequoia Analytical - Walnut Creek**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP (W003532-01) Soil Sampled: 21-Mar-00 00:00 Received: 22-Mar-00 17:20									
Lead	100	2.5	mg/kg	1	0C24003	23-Mar-00	24-Mar-00	EPA 6010A	





Cambria - San Ramon
2694 Bishop Drive Suite 105
San Ramon CA, 94583

Project: Chevron
Project Number: Chevron # 9-0329
Project Manager: David Gregory

Reported:
29-Mar-00 12:39

**Total Purgeable Hydrocarbons (C6-C12) and BTEX by DHS LUFT - Quality Control
Sequoia Analytical - Walnut Creek**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 0C23020 - EPA 5030B [MeOH]

Blank (0C23020-BLK1)

Prepared: 23-Mar-00 Analyzed: 24-Mar-00

Purgeable Hydrocarbons	ND	1.0	mg/kg							
Benzene	ND	0.0050	"							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	0.0133	0.0050	"							
Surrogate: <i>a,a,a</i> -Trifluorotoluene	0.702		"	0.600		117	40-140			

LCS (0C23020-BS1)

Prepared & Analyzed: 23-Mar-00

Benzene	0.836	0.0050	mg/kg	0.800		105	50-150			
Toluene	0.886	0.0050	"	0.800		111	50-150			
Ethylbenzene	0.928	0.0050	"	0.800		116	50-150			
Xylenes (total)	2.68	0.0050	"	2.40		112	50-150			
Surrogate: <i>a,a,a</i> -Trifluorotoluene	0.742		"	0.600		124	40-140			

Matrix Spike (0C23020-MS1)

Source: W003528-07

Prepared: 23-Mar-00 Analyzed: 24-Mar-00

Benzene	0.698	0.0050	mg/kg	0.800	ND	87.3	50-150			
Toluene	0.752	0.0050	"	0.800	ND	94.0	50-150			
Ethylbenzene	0.796	0.0050	"	0.800	ND	99.5	50-150			
Xylenes (total)	2.32	0.0050	"	2.40	0.014	96.1	50-150			
Surrogate: <i>a,a,a</i> -Trifluorotoluene	0.538		"	0.600		89.7	40-140			

Matrix Spike Dup (0C23020-MSD1)

Source: W003528-07

Prepared & Analyzed: 23-Mar-00

Benzene	0.734	0.0050	mg/kg	0.800	ND	91.8	50-150	5.03	20	
Toluene	0.782	0.0050	"	0.800	ND	97.7	50-150	3.91	20	
Ethylbenzene	0.820	0.0050	"	0.800	ND	102	50-150	2.97	20	
Xylenes (total)	2.40	0.0050	"	2.40	0.014	99.4	50-150	3.39	20	
Surrogate: <i>a,a,a</i> -Trifluorotoluene	0.552		"	0.600		92.0	40-140			





Cambria - San Ramon
2694 Bishop Drive Suite 105
San Ramon CA, 94583

Project: Chevron
Project Number: Chevron # 9-0329
Project Manager: David Gregory

Reported:
29-Mar-00 12:39

**Total Metals by EPA 6000/7000 Series Methods - Quality Control
Sequoia Analytical - Walnut Creek**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 0C24003 - EPA 3050B										
Blank (0C24003-BLK1)				Prepared: 23-Mar-00 Analyzed: 26-Mar-00						
Lead	ND	1.0	mg/kg							
LCS (0C24003-BS1)				Prepared: 23-Mar-00 Analyzed: 26-Mar-00						
Lead	49.7	1.0	mg/kg	50.0		99.4	80-120			
LCS Dup (0C24003-BSD1)				Prepared: 23-Mar-00 Analyzed: 26-Mar-00						
Lead	49.9	1.0	mg/kg	50.0		99.8	80-120	0.402	20	
Matrix Spike (0C24003-MS1)				Source: W003527-03 Prepared: 23-Mar-00 Analyzed: 26-Mar-00						
Lead	51.2	1.0	mg/kg	50.0	8.5	85.4	80-120			
Matrix Spike Dup (0C24003-MSD1)				Source: W003527-03 Prepared: 23-Mar-00 Analyzed: 26-Mar-00						
Lead	64.1	1.0	mg/kg	50.0	8.5	111	80-120	22.4	20	Q-07





Cambria - San Ramon
2694 Bishop Drive Suite 105
San Ramon CA, 94583

Project: Chevron
Project Number: Chevron # 9-0329
Project Manager: David Gregory

Reported:
29-Mar-00 12:39

Notes and Definitions

- P-01 Chromatogram Pattern: Gasoline C6-C12
- Q-07 The RPD value for this QC sample is above the established control limit. Review of associated QC indicates the high RPD does not represent an out-of-control condition for the batch.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference



ATTACHMENT C

Encroachment Permit

RECORDING REQUESTED BY and when recorded return to: Director of Public Works City of Piedmont 120 Vista Avenue Piedmont, CA 94611	
--	--

CITY OF PIEDMONT ENCROACHMENT PERMIT

The City of Piedmont ("City") permits FRANK HOFFMAN ("property owner") who owns real property at 300 HIGHLAND Piedmont, California, described in Exhibit A, attached hereto and incorporated herein, to [construct/maintain] SOIL BORINGS FOR ENVIRONMENTAL GROUNDWATER INVESTIGATION [on city property/in a city easement] subject to the following conditions:

1. Proper permits and approvals have been obtained from the City for the encroaching improvements. If no permit is required by the Piedmont Building Code or Chapter 17, drawings of the improvement have been submitted.
2. No change in the encroaching improvement may be made without the written consent of the Director of Public Works prior to alteration.
3. The City retains all existing rights in the real property being encroached upon by the property owner.
4. Subject to the provisions of Section 6 below, City has the right to require the property owner to remove all or part of the improvements encroaching upon city property by giving at least thirty (30) days' prior written notice to property owner at the property owner's address.
5. If the property owner fails to remove the improvements as set forth in the written notice within thirty (30) days after the date the notice was mailed or personally delivered by the City to the property owner at the above address, the City may then remove the improvements at City's expense. Whenever the City removes improvements after the property owner fails to do so within the thirty-day period described above, the property owner shall reimburse the City for all costs of removal incurred by the City.
6. If the Director of Public Works determines that circumstances in or near the city

property constitute an immediate threat to public health or safety, the City shall have the right to remove so much of the encroaching structure as is deemed necessary by the City without prior notice to property owner. In such a case, the City shall give the property owner written notice of the decision to remove some or all of the encroachment within 24 hours after commencement of the removal process. The notice shall describe the reasons for the emergency action. All costs of emergency removal by the City shall be reimbursed to the City by the property owner.

7. Costs of removal borne by the City for which the property owner fails to reimburse the City shall constitute a special assessment against the property. The City may record a notice of lien against the property for the amount of the assessment, which shall be collected in the same manner as a lien for the abatement of a nuisance as set forth in Section 6.16.2 of the Piedmont City Code and any successor statutes or ordinances. In addition, after being recorded, the lien may be foreclosed by judicial or other sale in the manner and means provided by law. The City shall also have the right to collect such sums by any other means provided by law. Property owner shall pay to the City an amount equal to the costs incurred by the City in efforts to collect the amounts due under this agreement, including attorneys' fees.

8. The City is not responsible for replacing or reimbursing property owner for any structures or improvements or anything else removed from encroaching on the City real property.

9. Property owner shall be responsible for any damage caused to the City property or easement by anything whatsoever placed upon City property or easement by or on behalf of property owner. Property owner further agrees to hold the City of Piedmont harmless and defend the City at the sole expense of property owner, against any claims, damages, injuries or lawsuits whatsoever from other persons or entities relating to damages or injuries caused by or resulting from the placing of anything over the City real property or easement by or on behalf of property owner.

10. The terms of this permit are binding upon the property owner's assigns and successors in interest.

Date:


CITY OF PIEDMONT

Date: 1-10-2000

HOFFMAN INVESTMENT CO.
PROPERTY OWNER


PROPERTY OWNER

State of California)
County of Alameda)

WPN 11212
LCR 179449

On _____ before me, the undersigned City Clerk of the City of Piedmont, personally appeared _____ personally known to me or proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

Ann Swill, City Clerk
City of Piedmont

State of California)
County of San Mateo

On Jan. 18, 2000, before me the undersigned, a Notary Public for the State of California, personally appeared Frank Hoffman personally known to me or proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies); and that by his/her/their signature(s) on the instrument the person(s) or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

Michele Jauregui
NOTARY PUBLIC FOR CALIFORNIA



ATTACHMENT D
First Quarter Groundwater Monitoring Report

BLAINE
TECH SERVICES, INC.



March 29, 2000

1680 ROGERS AVENUE
SAN JOSE, CA 95112-1105
(408) 573-7771 FAX
(408) 573-0555 PHONE
CONTRACTOR'S LICENSE #746684
www.blainetech.com

Brett Hunter
Chevron U.S.A. Products Company
P.O. Box 6004
San Ramon, CA 94583-0904

1st Quarter 2000 Monitoring at 9-0329

First Quarter 2000 Groundwater Monitoring at
Chevron Service Station Number 9-0329
340 Highland Ave.
Piedmont, CA

Monitoring Performed on January 17, 2000

Groundwater Sampling Report 000117-U-1

This report covers the routine monitoring of groundwater wells at this Chevron facility. Blaine Tech Services, Inc.'s work at the site includes inspection, gauging, evacuation, purgewater containment, sample collection and sample handling in accordance with standard procedures that conform to Regional Water Quality Control Board requirements.

Routine field data collection includes depth to water, total well depth, thickness of any separate immiscible layer, water column volume, calculated volume of a three-case volume purge, elapsed evacuation time, total volume of water removed, and standard water parameter instrument readings. Sample material is collected, contained, stored, and transported to the laboratory in conformance with EPA standards. Purgewater is, likewise, collected and transported to McKittrick Waste Treatment Site for disposal.

Basic field information is presented alongside analytical values excerpted from the laboratory report in the cumulative table of **WELL DATA AND ANALYTICAL RESULTS**. The full analytical report for the most recent samples is located in the **Analytical Appendix**. The table also contains new groundwater elevation calculations taken from the computer plotted gradient map which is located in the **Professional Engineering Appendix**.

At a minimum, Blaine Tech Services, Inc. field personnel are certified upon completion of a forty-hour Hazardous Materials and Emergency Response training course per 29 CFR 1910.120. Field personnel are also enrolled in annual eight hour refresher courses.

Blaine Tech Services, Inc. conducts sampling and documentation assignments of this type as an independent third party. In order to avoid compromising the objectivity necessary for the proper and disinterested performance of this work, Blaine Tech Services, Inc. concentrates on objective data collection and does not participate in the interpretation of analytical results, the definition of geological or hydrological conditions, the formulation of recommendations, or the marketing of remedial systems.

Please call if you have any questions.

Yours truly,



Scott Boor
Project Coordinator

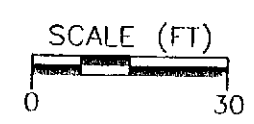
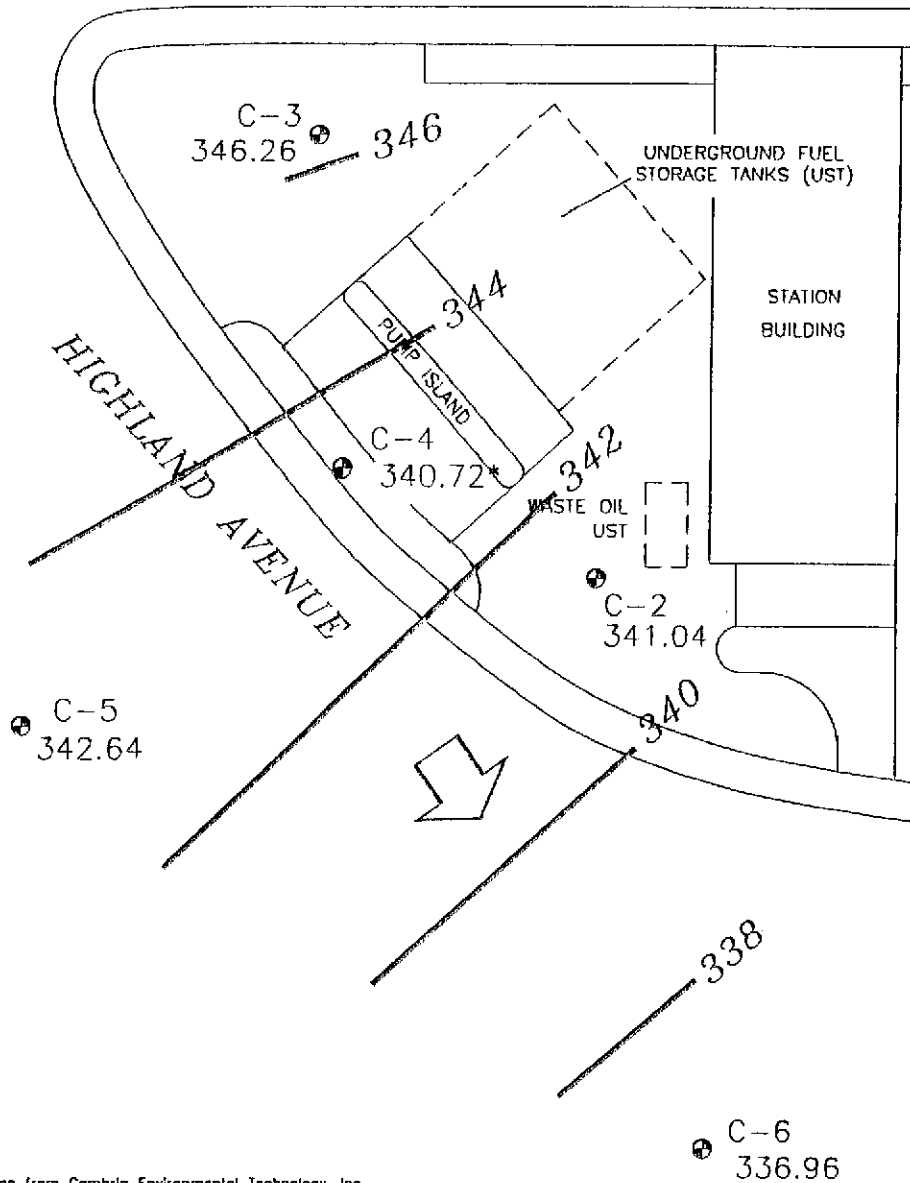
SDB/pb

attachments: Professional Engineering Appendix
Cumulative Table of Well Data and Analytical Results
Analytical Appendix
Field Data Sheets

cc: Scott Seery, Alameda County Health Care Services
Chuck Headlee, RWQCB-S.F. Bay Region
Frank Hoffman, Hoffman Investment Company
Mir Ghafari & Fred Manoucheri, Service Station
Suzanne McClurkin-Nelson, Pacific Environmental Group/ IT Corp.
Greg Gurss, Gettler-Ryan, Inc.
Anne Payne, Chevron (w/o enclosure)

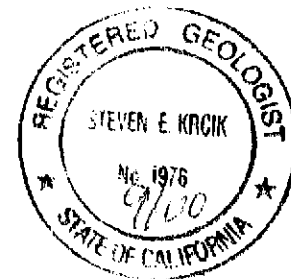
Professional Engineering Appendix

HIGHLAND WAY



EXPLANATION

- MONITORING WELL
- 341.04 GROUNDWATER ELEVATION (FT, MSL)
- 338 — GROUNDWATER ELEVATION CONTOUR (FT, MSL)
- ↓ APPROXIMATE GROUNDWATER FLOW DIRECTION; APPROXIMATE GRADIENT = 0.05
- * DATA NOT USED IN CONTOURING



Basemap from Cambria Environmental Technology, Inc.

PREPARED BY

RRM
engineering contracting firm

Chevron Station 9-0329
340 Highland Avenue
Piedmont, California

GROUNDWATER ELEVATION CONTOUR MAP,
JANUARY 17, 2000

FIGURE:
1
PROJECT:
DAC04

Table of Well Data and Analytical Results

Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Analytical results are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	MTBE
C-2										
08/07/89	94.19	91.33	2.88	--	34,000	580	60	170	270	--
11/15/89	94.19	91.39	2.80	--	8100	500	36	420	180	--
02/01/91	94.19	90.41	3.75	--	6800	490	21	310	86	--
04/16/91	94.19	91.64	2.55	--	9600	810	43	550	270	--
10/16/91	94.19	90.67	3.52	--	7100	320	23	200	60	--
01/08/92	94.19	90.04	4.15	--	2400	190	9.0	83	22	--
04/10/92	94.19	91.23	2.96	--	6600	550	33	340	170	--
07/14/92	94.19	91.36	2.83	--	9000	680	330	580	690	--
10/05/92	94.19	89.81	4.38	--	5500	250	17	130	82	--
01/06/93	94.19	90.25	3.94	--	5500	190	32	41	54	--
03/29/93	94.19	92.10	2.09	--	19,000	670	40	180	370	--
07/02/93	94.19	92.10	2.09	--	8000	1100	41	420	500	--
10/11/93	94.19	91.43	2.76	--	42,000	940	34	140	87	--
01/10/94	94.19	89.37	4.82	--	12,000	770	20	220	74	--
04/06/94	94.19	91.70	2.49	--	40,000	820	33	190	110	--
07/06/94	94.19	91.72	2.47	--	8800	870	28	140	95	--
11/11/94	94.19	91.32	2.87	--	8600	460	81	180	120	--
01/06/95	94.19	91.64	2.55	--	15,000	880	48	270	140	--
04/13/95	94.19	92.13	2.06	--	56,000	2500	130	730	360	--
07/25/95	94.19	92.05	2.14	--	11,000	1000	34	540	160	--
10/05/95	94.19	91.68	2.51	--	13,000	1000	<20	160	170	--
01/02/96	94.19	91.97	2.22	--	9500	1300	<50	380	87	64,000
04/11/96	94.19	92.27	1.92	--	<10,000	1300	<100	<100	<100	74,000
07/08/96	94.19	92.14	2.05	--	<20,000	1200	<200	<200	<200	110,000
10/03/96	94.19	91.90	2.29	--	<25,000	1200	<250	<250	<250	140,000
01/23/97	343.39	341.49	1.90	--	20,000	1100	<200	460	<200	110,000
02/14/97	343.39	341.42	1.97	Confirmation run	--	--	--	--	--	150,000
04/08/97	343.39	341.12	2.27	--	<50,000	1100	<500	<500	<500	160,000
07/09/97	343.39	341.41	1.98	--	<50,000	1300	<500	<500	<500	210,000
10/08/97	343.39	341.09	2.30	--	18,000	1400	<50	300	95	160,000
01/22/98	343.39	341.71	1.68	--	10,000	860	10	140	37	70,000
04/15/98	343.39	342.19	1.20	--	<10,000	1400	<100	510	<100	46,000
07/09/98	343.39	341.92	1.47	--	33,000	1700	<50	650	<50	120,000
10/02/98	343.39	341.26	2.13	--	11,000	920	11	130	76	100,000

CONTINUED ON NEXT PAGE

Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Analytical results are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	MTBE
C-2 (CONT'D)										
01/18/99	343.39	341.55	1.84	--	<25,000	1770	<250	<250	<250	48,400
01/18/99	343.39	341.55	1.84	Confirmation run	--	--	--	--	--	78,300
04/19/99	343.39	342.22	1.17	--	9900	1110	26.6	455	82	33,300
09/28/99	343.39	340.58	2.81	--	11,500	1100	<50	93.9	53.1	26,200
10/27/99	343.39	340.41	2.98	--	9440	711	<20	74.9	42.4	17,500
01/17/00	343.39	341.04	2.35	--	12,200	813	<50	133	<50	21,200

Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Analytical results are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	MTBE
C-3										
08/07/89	97.65	93.36	4.29	--	<50	<0.5	<1.0	<1.0	<3.0	--
11/15/89	97.65	92.48	5.17	--	<500	<0.5	2.8	<0.5	1.1	--
02/01/91	97.65	91.27	6.38	--	<50	<0.5	<0.5	<0.5	<0.5	--
04/16/91	97.65	93.93	3.72	--	<50	<0.5	<0.5	<0.5	<0.5	--
10/16/91	97.65	89.45	8.20	--	<50	<0.5	<0.5	<0.5	<0.5	--
01/08/92	97.65	90.97	6.68	--	<50	<0.5	<0.5	<0.5	<0.5	--
04/10/92	97.65	93.15	4.50	--	<50	<0.5	<0.5	<0.5	<0.5	--
07/14/92	97.65	91.44	6.21	--	<50	<0.5	<0.5	<0.5	<0.5	--
10/05/92	97.65	88.34	9.31	--	<50	<0.5	<0.5	<0.5	<0.5	--
01/06/93	97.65	94.24	3.41	--	<50	<0.5	<0.5	<0.5	<0.5	--
03/29/93	97.65	97.15	0.50	--	<50	<0.5	<0.5	<0.5	0.8	--
07/02/93	97.65	95.06	2.59	--	<50	4.0	3.0	<0.5	3.0	--
10/11/93	97.65	92.75	4.90	--	<50	<0.5	<0.5	<0.5	<0.5	--
01/10/94	97.65	93.26	4.39	--	<50	<0.5	1.0	<0.5	0.8	--
04/06/94	97.65	94.97	2.68	--	<50	<0.5	1.0	0.7	4.5	--
07/06/94	97.65	95.55	2.10	--	<50	2.2	4.1	<0.5	2.8	--
11/11/94	97.65	96.42	1.23	--	<50	<0.5	0.8	<0.5	<0.5	--
01/06/95	97.65	97.05	0.60	--	<50	<0.5	<0.5	<0.5	<0.5	--
04/13/95	97.65	97.05	0.60	--	<50	<0.5	<0.5	<0.5	<0.5	--
07/25/95	97.65	96.00	1.65	--	<50	<0.5	<0.5	<0.5	<0.5	--
10/05/95	97.65	94.02	3.63	--	<50	<0.5	<0.5	<0.5	<0.5	--
01/02/96	97.65	94.53	3.12	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
04/11/96	97.65	96.83	0.82	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
07/08/96	97.65	96.15	1.50	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
10/03/96	97.65	95.17	2.48	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
01/23/97	347.08	346.87	0.21	--	<50	<0.5	<0.5	<0.5	<0.5	3.2
04/08/97	347.08	346.33	0.75	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
07/09/97	347.08	345.61	1.47	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
10/08/97	347.08	345.04	2.04	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5

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Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Analytical results are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	MTBE
C-3 (CONT'D)										
01/22/98	347.08	347.08	0.00	Flooded	<50	<0.5	<0.5	<0.5	<0.5	40
04/15/98	347.08	347.08	0.00	Flooded	<50	<0.5	<0.5	<0.5	<0.5	<2.5
05/13/98	347.20*	--	--	--	--	--	--	--	--	--
07/09/98	347.20	346.73	0.47	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
10/02/98	347.20	346.22	0.98	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5
01/18/99	347.20	346.43	0.77	--	<50	<0.5	<0.5	<0.5	<1.5	<2.0
04/19/99	347.20	346.67	0.53	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0
07/19/99	347.20	346.39	0.81	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0
10/27/99	347.20	345.73	1.47	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
01/17/00	347.20	346.26	0.94	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5

* Well head elevation adjusted due to broken top of casing.

Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Analytical results are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	MTBE
C-4										
08/07/89	95.60	--	--	Dry	--	--	--	--	--	--
11/15/89	95.60	90.65	4.95	--	1300	2.9	310	0.5	2.9	--
02/01/91	95.60	90.82	4.78	--	72	<0.5	9.0	<0.5	<0.5	--
04/16/91	95.60	95.60	4.83	--	<50	<0.5	<0.5	<0.5	<0.5	--
10/16/91	95.60	91.37	4.23	--	<50	<0.5	<0.5	<0.5	<0.5	--
01/08/92	95.60	90.79	4.81	--	<50	<0.5	<0.5	<0.5	<0.5	--
04/10/92	95.60	91.34	4.26	--	<50	<0.5	<0.5	<0.5	<0.5	--
07/14/92	95.60	91.32	4.28	--	<50	<0.5	3.8	<0.5	<0.5	--
10/05/92	95.60	91.31	4.29	--	<50	<0.5	<0.5	<0.5	<0.5	--
01/06/93	95.60	91.31	4.29	--	<50	0.7	<0.5	<0.5	<0.5	--
03/29/93	95.60	91.30	4.30	--	<50	0.5	1.0	<0.5	2.0	--
07/02/93	95.60	91.38	4.22	--	<50	<0.5	<0.5	<0.5	<0.5	--
10/11/93	95.60	91.30	4.30	--	<50	0.6	<0.5	<0.5	<0.5	--
01/10/94	95.60	91.16	4.44	--	<50	0.7	3.0	<0.5	1.0	--
04/06/94	95.60	91.36	4.24	--	130	2.2	5.4	3.3	24	--
07/06/94	95.60	91.36	4.24	--	99	5.9	7.5	2.0	12	--
11/11/94	95.60	91.39	4.21	--	<50	<0.5	9.5	<0.5	<0.5	--
01/06/95	95.60	91.18	4.42	--	<50	0.7	1.0	<0.5	1.1	--
04/13/95	95.60	91.36	4.24	--	67	0.54	7.2	<0.5	1.1	--
07/25/95	95.60	91.36	4.24	--	390	<2.0	150	<2.0	<2.0	--
10/05/95	95.60	91.22	4.38	--	130	<0.5	66	<0.5	<0.5	--
01/02/96	95.60	91.34	4.26	--	<50	<0.5	<0.5	<0.5	<0.5	34
04/11/96	95.60	91.21	4.39	--	<50	<0.5	0.93	<0.5	<0.5	56
07/08/96	95.60	91.32	4.28	--	<50	<0.5	<0.5	<0.5	<0.5	21
10/03/96	95.60	91.38	4.22	--	80	<0.5	31	<0.5	<0.5	9.9
01/23/97	344.94	340.55	4.39	--	<50	<0.5	<0.5	<0.5	<0.5	23
04/08/97	344.94	340.69	4.25	--	87	<0.5	3.6	<0.5	1.7	7.0
07/09/97	344.94	340.73	4.21	--	93	<0.5	32	<0.5	<0.5	26
10/08/97	344.94	340.60	4.34	--	<50	<0.5	0.63	<0.5	<0.5	12

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Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Analytical results are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	MTBE
C-4 (CONT'D)										
01/22/98	344.94	340.68	4.26	--	<50	<0.5	4.3	<0.5	<0.5	10
04/15/98	344.94	343.93	1.01	Sampled biannually	--	--	--	--	--	--
07/09/98	344.94	340.69	4.25	--	<50	<0.5	<0.5	<0.5	<0.5	37
10/02/98	344.94	340.59	4.35	--	--	--	--	--	--	--
01/18/99	344.94	340.73	4.21	--	<50	<0.5	<0.5	<0.5	<0.5	25.4
04/19/99	344.94	342.63	2.31	--	--	--	--	--	--	--
07/19/99	344.94	343.41	1.53	*	10,000	1160	23	178	50.4	45,600
09/28/99	344.94	340.24	4.70	--	<50	<0.5	0.919	<0.5	<0.5	<2.5
10/27/99	344.94	343.68	1.26	--	--	--	--	--	--	--
01/17/00	344.94	340.72	4.22	--	<50	<0.5	21.4	<0.5	<0.5	4.6

* Anomalous results: Results for this sample are likely the result of a mislabeling of sample containers; results most closely resemble those of well C-2.

Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Analytical results are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	MTBE
C-5										
11/25/96	--	--	3.30	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
01/23/97	345.14	343.69	1.45	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
04/08/97	345.14	342.82	2.32	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
07/09/97	345.14	342.84	2.30	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
10/08/97	345.14	342.14	3.00	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
01/22/98	345.14	344.14	1.00	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
04/15/98	345.14	341.89	3.25	Sampled annually	--	--	--	--	--	--
07/09/98	345.14	344.94	0.20	--	--	--	--	--	--	--
10/02/98	345.14	342.82	2.32	--	--	--	--	--	--	--
01/18/99	345.14	343.01	2.13	--	<50	<0.5	<0.5	<0.5	<0.5	<2.0
04/19/99	345.14	343.07	2.07	--	--	--	--	--	--	--
07/19/99	345.14	342.72	2.42	--	--	--	--	--	--	--
10/27/99	345.14	342.77	2.37	--	--	--	--	--	--	--
01/17/00	345.14	342.64	2.50	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
C-6										
11/25/96	--	--	2.13	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
01/23/97	338.61	--	0.00	Flooded	<50	<0.5	<0.5	<0.5	<0.5	<2.5
04/08/97	338.61	--	0.00	Flooded	<50	<0.5	<0.5	<0.5	<0.5	<2.5
07/09/97	338.61	335.84	2.77	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
10/08/97	338.61	337.17	1.44	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
01/22/98	338.61	337.07	1.54	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
04/15/98	338.61	337.31	1.30	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
07/09/98	338.61	338.61	0.00	Flooded	<50	<0.5	<0.5	<0.5	<0.5	<2.5
10/02/98	338.61	335.81	2.80	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5
01/18/99	338.61	337.32	1.29	--	<50	<0.5	<0.5	<0.5	<0.5	<2.0
04/19/99	338.61	337.30	1.31	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0
07/19/99	338.61	337.05	1.56	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0
10/27/99	338.61	337.16	1.45	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
01/17/00	338.61	336.96	1.65	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5

Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Analytical results are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	MTBE
Backfill Well: A										
08/07/89	--	--	2.10	--	1000	50	6.0	5.0	22	--
11/15/89	--	--	2.04	--	3700	98	2.1	4.3	55	--
02/01/91	--	--	3.05	--	36,000	1100	750	130	6100	--
04/16/91	--	--	2.01	--	8000	370	6.0	86	750	--
10/16/91	--	--	4.15	--	--	--	--	--	--	--
Backfill Well: B										
08/07/89	--	--	4.12	--	--	--	--	--	--	--
11/15/89	--	--	--	--	--	--	--	--	--	--
02/01/91	--	--	5.03	--	--	--	--	--	--	--
04/16/91	--	--	4.00	--	--	--	--	--	--	--
10/16/91	--	--	6.24	--	--	--	--	--	--	--

Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Analytical results are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	MTBE
TRIP BLANK										
01/06/93	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
03/29/93	--	--	--	--	<50	<0.5	<0.5	<0.5	1.0	--
07/02/93	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
10/11/93	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
01/10/94	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
04/06/94	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
07/06/94	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
11/11/94	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
01/06/95	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
04/13/95	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
07/25/95	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
10/05/95	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
01/02/96	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
04/11/96	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
07/08/96	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
10/03/96	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
01/23/97	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
04/08/97	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
07/09/97	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
10/08/97	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
01/22/98	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
07/09/98	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
10/02/98	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
01/18/99	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.0
04/19/99	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0
07/19/99	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0
10/27/99	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
01/17/00	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5

Note: Blaine Tech Services, Inc. began routine monitoring of the groundwater wells at this site on April 13, 1995.

Earlier field data and analytical results provided by Sierra Environmental.

Survey performed on March 20, 1997 by Ron Archer, Civil Engineer Inc.

ABBREVIATIONS:

TPH = Total Petroleum Hydrocarbons

MTBE = Methyl t-butyl ether

Analytical Appendix



January 31, 2000

Scott Boor
Blaine Tech Services (Chev)
1680 Rogers Avenue
San Jose, CA 95112

RE: Chevron 9-0329/M001544

Dear Scott Boor

Enclosed are the results of analyses for sample(s) received by the laboratory on January 18, 2000.
If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Wendy Bonnes
Project Manager

CA ELAP Certificate Number 1210





Blaine Tech Services (Chev)
1680 Rogers Avenue
San Jose, CA 95112

Project: Chevron 9-0329 (340 Highland Ave., Piedmont) Sampled: 1/17/00
Project Number: 00117-U1 Received: 1/18/00
Project Manager: Scott Boor Reported: 1/31/00 12:53

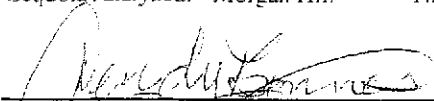
ANALYTICAL REPORT FOR SAMPLES:

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
C-2	M001544-01	Water	1/17/00
C-3	M001544-02	Water	1/17/00
C-4	M001544-03	Water	1/17/00
C-5	M001544-04	Water	1/17/00
C-6	M001544-05	Water	1/17/00
TB	M001544-06	Water	1/17/00

Sequoia Analytical - Morgan Hill

The results in this report apply to the samples analyzed in accordance with the chain of custody document.

This analytical report must be reproduced in its entirety.


Wendy Bonnes, Project Manager





Blaine Tech Services (Chev) 1680 Rogers Avenue San Jose, CA 95112	Project: Chevron 9-0329 (340 Highland Ave., Piedmont) Project Number: 00117-U1 Project Manager: Scott Boor	Sampled: 1/17/00 Received: 1/18/00 Reported: 1/31/00 12:53
---	--	--

**Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M
Sequoia Analytical - Petaluma**

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
C-2				<u>M001544-01</u>			<u>Water</u>	
Gasoline	0011184	1/27/00	1/27/00		5000	12200	ug/l	
Benzene	"	"	"		50.0	813	"	
Toluene	"	"	"		50.0	ND	"	
Ethylbenzene	"	"	"		50.0	133	"	
Xylenes (total)	"	"	"		50.0	ND	"	
Methyl tert-butyl ether	"	"	"		250	21200	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	65.0-135		93.0	%	
Surrogate: 4-Bromofluorobenzene	"	"	"	65.0-135		103	"	
C-3				<u>M001544-02</u>			<u>Water</u>	
Gasoline	0011184	1/27/00	1/27/00		50.0	ND	ug/l	
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Methyl tert-butyl ether	"	"	"		2.50	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	65.0-135		105	%	
Surrogate: 4-Bromofluorobenzene	"	"	"	65.0-135		100	"	
C-4				<u>M001544-03</u>			<u>Water</u>	
Gasoline	0011184	1/27/00	1/27/00		50.0	ND	ug/l	
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	21.4	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Methyl tert-butyl ether	"	"	"		2.50	4.60	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	65.0-135		104	%	
Surrogate: 4-Bromofluorobenzene	"	"	"	65.0-135		105	"	
C-5				<u>M001544-04</u>			<u>Water</u>	
Gasoline	0011184	1/27/00	1/27/00		50.0	ND	ug/l	
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Methyl tert-butyl ether	"	"	"		2.50	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	65.0-135		101	%	
Surrogate: 4-Bromofluorobenzene	"	"	"	65.0-135		104	"	





Blaine Tech Services (Chev) 1680 Rogers Avenue San Jose, CA 95112	Project: Chevron 9-0329 (340 Highland Ave., Piedmont) Project Number: 00117-U1 Project Manager: Scott Boor	Sampled: 1/17/00 Received: 1/18/00 Reported: 1/31/00 12:53
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Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M
Sequoia Analytical - Petaluma

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
				<u>M001544-05</u>				
C-6							<u>Water</u>	
Gasoline	0011184	1/27/00	1/27/00		50.0	ND	ug/l	
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Methyl tert-butyl ether	"	"	"		2.50	ND	"	
Surrogate: <i>a, a, a</i> -Trifluorotoluene	"	"	"	65.0-135		105	%	
Surrogate: 4-Bromofluorobenzene	"	"	"	65.0-135		106	"	
				<u>M001544-06</u>				
TB							<u>Water</u>	
Gasoline	0011184	1/27/00	1/27/00		50.0	ND	ug/l	
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Methyl tert-butyl ether	"	"	"		2.50	ND	"	
Surrogate: <i>a, a, a</i> -Trifluorotoluene	"	"	"	65.0-135		100	%	
Surrogate: 4-Bromofluorobenzene	"	"	"	65.0-135		106	"	





Blaine Tech Services (Chev) 1680 Rogers Avenue San Jose, CA 95112	Project: Chevron 9-0329 (340 Highland Ave., Piedmont) Project Number: 00117-U1 Project Manager: Scott Boor	Sampled: 1/17/00 Received: 1/18/00 Reported: 1/31/00 12:53
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Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M/Quality Control
Sequoia Analytical - Petaluma

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit	Recov. %	RPD Limit	RPD %	Notes*
Batch: 0011184		Date Prepared: 1/27/00			Extraction Method: EPA 5030 waters					
Blank		0011184-BLK1								
Gasoline	1/27/00			ND	ug/l	50.0				
Benzene	"			ND	"	0.500				
Toluene	"			ND	"	0.500				
Ethylbenzene	"			ND	"	0.500				
Xylenes (total)	"			ND	"	0.500				
Methyl tert-butyl ether	"			ND	"	2.50				
Surrogate: a,a,a-Trifluorotoluene	"	300		309	"	65.0-135	103			
Surrogate: 4-Bromofluorobenzene	"	300		320	"	65.0-135	107			
LCS		0011184-BS1								
Benzene	1/27/00	100		102	ug/l	65.0-135	102			
Toluene	"	100		97.8	"	65.0-135	97.8			
Ethylbenzene	"	100		95.1	"	65.0-135	95.1			
Xylenes (total)	"	300		293	"	65.0-135	97.7			
Surrogate: a,a,a-Trifluorotoluene	"	300		304	"	65.0-135	101			
Matrix Spike		0011184-MS1		M001544-02						
Benzene	1/27/00	100	ND	101	ug/l	65.0-135	101			
Toluene	"	100	ND	97.1	"	65.0-135	97.1			
Ethylbenzene	"	100	ND	95.3	"	65.0-135	95.3			
Xylenes (total)	"	300	ND	293	"	65.0-135	97.7			
Surrogate: a,a,a-Trifluorotoluene	"	300		306	"	65.0-135	102			
Matrix Spike Dup		0011184-MSD1		M001544-02						
Benzene	1/27/00	100	ND	101	ug/l	65.0-135	101	20.0	0	
Toluene	"	100	ND	97.8	"	65.0-135	97.8	20.0	0.718	
Ethylbenzene	"	100	ND	95.2	"	65.0-135	95.2	20.0	0.105	
Xylenes (total)	"	300	ND	293	"	65.0-135	97.7	20.0	0	
Surrogate: a,a,a-Trifluorotoluene	"	300		302	"	65.0-135	101			





Blaine Tech Services (Chev) 1680 Rogers Avenue San Jose, CA 95112	Project: Chevron 9-0329 (340 Highland Ave., Piedmont) Project Number: 00117-U1 Project Manager: Scott Boor	Sampled: 1/17/00 Received: 1/18/00 Reported: 1/31/00 12:53
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Notes and Definitions

#	Note
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DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

Recov. Recovery

RPD Relative Percent Difference



Fax copy of Lab Report and COC to Chevron Contact:

Yes
 No

Chain-of-Custody-Record

Chevron Products Co. P.O. BOX 6004 San Ramon, CA 94583 FAX (925)842-8370	Chevron Facility Number <u>9-0329</u> Facility Address <u>340 Highland Ave., Piedmont</u> Consultant Project Number <u>000117-44</u> Consultant Name <u>Blaine Tech Services, Inc.</u> Address <u>1680 Rogers Ave., San Jose</u> Project Contact (Name) <u>Scott Boor</u> (Phone) <u>408-573-0555</u> (Fax) <u>408-573-7771</u>	Chevron Contact Name) <u>Brett Hunter</u> (Phone) <u>(925) 842-8695</u> Laboratory Name <u>Sequoia</u> Laboratory Service Order <u>9144488</u> Laboratory Service Code <u>ZZ02790</u> Samples collected by (Name) <u>Sanjiv</u> Signature <u>[Signature]</u>
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State Method: CA OR WA NW Series CO UT

Sample Number	Number of Containers	Matrix S = Soil W = Water C = Charcoal	Sample Preservation	Date/Time	State Method: <input type="checkbox"/> CA <input type="checkbox"/> OR <input type="checkbox"/> WA <input type="checkbox"/> NW Series <input type="checkbox"/> CO <input type="checkbox"/> UT													Remarks
					BTEX/MTBE + TPH GAS (8020 + 8015)	BTEX + TPH GAS (8020 + 8015)	TPH Diesel (8015)	Oxygenates (8260)	Purgeable Halocarbons (8010)	Purgeable Organics (8270)	Extractable Organics (8270)	Oil and Grease (5520)	Metals (ICAP or AA) Cd, Cr, Pb, Zn, Ni	BTEX (8020)	BTEX/MTBE/Naph. (8020)	TPH - HCID	TPH - D Extended	
C-2	3	W	HCl	01-17-00 11:01	X													1
C-3				01-17-00 10:13														2
C-4				01-17-00 10:35														3
C-5				01-17-00 9:16														4
C-6				01-17-00 9:42														5
TB	2			01-17-01														6
1001544																		

COC-3.DWG/07-28/HCH

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time	Iced Y/N	Turn Around Time (Circle One) 24 Hrs. 48 Hrs. 5 Days 10 Days As Contracted
Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time	Iced Y/N	
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature)		Date/Time	Iced Y/N	

**Field
Data
Sheets**

WELL GAUGING DATA

Project # 000117-USA Date 01-17-00 Client G-0229

Site 340 Highland Ave, Piedmont, Ca

Well ID	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC
C-2	2					2.35	13.52	TOC
C-3	2					0.94	73.91	
C-4	2					4.22	9.95	
C-5	2					2.50	17.13	
C-6	2					1.65	16.91	↓

CHEVRON WELL MONITORING DATA SHEET

Project #: <u>C00117-42</u>	Station #: <u>9-C320</u>
Sampler: <u>Sanjiv</u>	Date: <u>01-17-00</u>
Well I.D.: <u>C-2</u>	Well Diameter: <u>2</u> 3 4 6 8
Total Well Depth: <u>13.52</u>	Depth to Water: <u>2.35</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH

Purge Method:

- Bailer
- Disposable Bailer
- Middleburg
- Electric Submersible
- Waterra
- Peristaltic
- Extraction Pump
- Other _____

Sampling Method:

- Bailer
- Disposable Bailer
- Extraction Port
- Dedicated Tubing
- Other: _____

<u>1.7</u> (Gals.) X	<u>3</u>	= <u>5.1</u> Gals.
Case Volume	Specified Volumes	Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius ² * 0.163

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
10:55	59.3	6.3	954	2	
10:57	60.3	6.5	918	4	
10:59	61.2	6.5	981	5.5	

Did well dewater? Yes No Gallons actually evacuated: 5.5

Sampling Time: 11:01 Sampling Date: 01-17-00

Sample I.D.: C-2 Laboratory: STL Sequoia Other

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

EB I.D. (if applicable): _____ @ _____ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

D.O. (if req'd): Pre-purge: _____ mg/L Post-purge: _____ mg/L

O.R.P. (if req'd): Pre-purge: _____ mV Post-purge: _____ mV

CHEVRON WELL MONITORING DATA SHEET

Project #: <u>00017-01</u>	Station #: <u>9-0329</u>
Sampler: <u>Supper</u>	Date: 01-17-00 <u>01-17-00</u>
Well I.D.: <u>C-3</u>	Well Diameter: <u>2</u> 3 4 6 8
Total Well Depth: <u>13.91</u>	Depth to Water: <u>0.94</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH

Purge Method:

- Bailer
- Disposable Bailer
- Middleburg
- Electric Submersible
- Waterra
- Peristaltic
- Extraction Pump
- Other _____

Sampling Method:

- Bailer
- Disposable Bailer
- Extraction Port
- Dedicated Tubing
- Other: _____

<u>2.0</u> (Gals.) X	<u>3</u>	=	<u>6.0</u> Gals.
Case Volume	Specified Volumes		Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius ² * 0.163

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
10:07	54.7	6.5	172	2	
10:09	55.6	6.6	159	4	
10:11	55.6	6.8	157	6	

Did well dewater? Yes No Gallons actually evacuated: 6

Sampling Time: 10:13 Sampling Date: 01-17-00

Sample I.D.: C-3 Laboratory: STL Sequoia Other

Analyzed for: TPH-G BTEX MTBE TPH-D Other: _____

EB I.D. (if applicable): _____ Time: _____ Duplicate I.D. (if applicable): _____

Analyzed for: TPH-G BTEX MTBE TPH-D Other: _____

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

CHEVRON WELL MONITORING DATA SHEET

Project #: <u>010017-00</u>	Station #: <u>9-0329</u>
Sampler: <u>Sonjiv</u>	Date: <u>01-17-00</u>
Well I.D.: <u>C-4</u>	Well Diameter: <u>(2)</u> , 3 4 6 8
Total Well Depth: <u>9.95</u>	Depth to Water: <u>4.22</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH

Purge Method: Disposable Bailer Waterra Disposable Bailer
 Bailer Peristaltic Extraction Port
 Middleburg Extraction Pump Dedicated Tubing
 Electric Submersible Other: _____ Other: _____

.91 (Gals.) X 3 = 2.7 Gals.
 Case Volume Specified Volumes Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius ² * 0.163

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
10:31	58.3	6.1	544	1	
10:32	58.9	6.3	551	2	
10:33	58.8	6.4	562	3	

Did well dewater? Yes No Gallons actually evacuated: 3

Sampling Time: 10:35 Sampling Date: 01-17-00

Sample I.D.: C-4 Laboratory: STL Sequoia Other

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

EB I.D. (if applicable): _____ @ _____ Time Duplicate I.D. (if applicable): _____

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

CHEVRON WELL MONITORING DATA SHEET

Project #: <u>MO0117-U1</u>	Station #: <u>9-0329</u>
Sampler: <u>Sanj...</u>	Date: <u>01-17-00</u>
Well I.D.: <u>C-5</u>	Well Diameter: <u>(2)</u> 3 4 6 8
Total Well Depth: <u>17.13</u>	Depth to Water: <u>2.50</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH

Purge Method:

- Bailer
- Disposable Bailer
- Middleburg
- Electric Submersible
- Waterra
- Peristaltic
- Extraction Pump
- Other _____

Sampling Method:

- Bailer
- Disposable Bailer
- Extraction Port
- Dedicated Tubing
- Other _____

$$\underline{2.3} \text{ (Gals.)} \times \underline{3} = \underline{6.9} \text{ Gals.}$$

I Case Volume Specified Volumes Calculated Volume

Well Diameter	Multipier	Well Diameter	Multipier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius ² * 0.163

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
9:10	56.2	5.1	779	3	
9:12	56.8	5.6	743	5	
9:14	57.7	6.2	739	7	

Did well dewater? Yes No Gallons actually evacuated: 7

Sampling Time: 9:16 Sampling Date: 01-17-00

Sample I.D.: C-5 Laboratory: STL Sequoia Other

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

EB I.D. (if applicable): _____ @ _____ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

D.O. (if req'd): Pre-purge: _____ mg/L Post-purge: _____ mg/L

O.R.P. (if req'd): Pre-purge: _____ mV Post-purge: _____ mV