CONESTOGA-ROVERS & ASSOCIATES

10969 Trade Center Drive, Suite 107
Rancho Cordova, California 95670
Telephone: (916) 889-8900 Fax: (916) 889-8999
www.CRAworld.com

TRANSMITTAL

DATE: 12/17/10

REFERENCE NO.: 611971

PROJECT NAME: Chevron 9-8139 (RO368)

TO: Mr. Mark Detterman
Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

RECEIVED
9:29 am, Dec 20, 2010
Alameda County
Environmental Health

Please find enclosed:
- ☐ Draft
- ☐ Originals
- ☐ Prints
- ☒ Final
- ☐ Other

Sent via:
- ☐ Mail
- ☐ Overnight Courier
- ☐ Same Day Courier
- ☒ Other Upload to ACEH FTP site

QUANTITY	DESCRIPTION
1	Case Closure Request

- ☐ As Requested
- ☐ For Your Use
- ☐ For Review and Comment
- ☒ Final report
- ☐

COMMENTS:
We appreciate the opportunity to work with you on this project. Please contact James Kiernan at (916) 889-8917 if you have any questions or require additional information.

Copy to: Ms. Stacie Frerichs, Chevron
Mr. Harv Dhaliwal

Completed by: James Kiernan [Please Print]

Signed:

Filing: **Correspondence File**

Stacie H. Frerichs
Team Lead
Marketing Business Unit

Chevron Environmental Management Company
6001 Bollinger Canyon Road
San Ramon, CA 94583
Tel (925) 842-9655
Fax (925) 842-8370

December 17, 2010

Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

Re: Chevron Facility # 9-8139

Address: 16304 Foothill Boulevard, San Leandro, California

I have reviewed the attached report titled *Case Closure Request* and dated December 17, 2010.

I agree with the conclusions and recommendations presented in the referenced report. The information in this report is accurate to the best of my knowledge and all local Agency/Regional Board guidelines have been followed. This report was prepared by Conestoga-Rovers & Associates, upon whose assistance and advice I have relied.

This letter is submitted pursuant to the requirements of California Water Code Section 13267(b)(1) and the regulating implementation entitled Appendix A pertaining thereto.

I declare under penalty of perjury that the foregoing is true and correct.

Sincerely,

SH Frerichs

Stacie H. Frerichs
Project Manager

Enclosure: Report

CASE CLOSURE REQUEST

Chevron Service Station 9-8139
16304 Foothill Boulevard
San Leandro, California
LOP Case No. RO0000368

Prepared for:

Mr. Mark Detterman, P.G., C.E.G.
Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Prepared by:
Conestoga-Rovers & Associates

10969 Trade Center Drive, #107
Rancho Cordova, California
U.S.A. 95670

Office: (916) 889-8900
Fax: (916) 889-8999

web: http:\\www.CRAworld.com

DECEMBER 17, 2010
REF. NO. 611971 (11)
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CASE CLOSURE REQUEST

Chevron Service Station 9-8139
16304 Foothill Boulevard
San Leandro, California
LOP Case No. RO0000368

Christopher J. Benedict

James P. Kiernan, P.E.

Prepared by:
Conestoga-Rovers & Associates

10969 Trade Center Drive, #107
Rancho Cordova, California
U.S.A. 95670

Office: (916) 889-8900
Fax: (916) 889-8999

web: http:\\www.CRAworld.com

DECEMBER 17, 2010
REF. NO. 611971 (11)
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1.0 INTRODUCTION

Conestoga-Rovers & Associates (CRA) has prepared this *Case Closure Request* on behalf of Chevron Environmental Management Company (Chevron) for Chevron service station 9-8139 located at 16304 Foothill Boulevard in San Leandro, California. Based on our review of the site background and conditions, this site meets the criteria for closure as a low-risk fuel site; as recommended to the State Water Resources Control Board (SWRCB) by the UST Cleanup Program Task Force in their January 13, 2010 report per Resolution 2009-0042. Presented below are the site description and background, site conditions and discussion of remaining impacts, and our rationale for closure based on the low-risk criteria.

2.0 SITE DESCRIPTION AND BACKGROUND

The site is an active Chevron-branded gasoline station located on the northeast side of Foothill Boulevard just northwest of the intersection with Miramar Avenue (Figure 1). Current station facilities include a station building, two gasoline underground storage tanks (USTs), and two dispenser islands. Land use in the site vicinity is mixed commercial and residential. The site is bounded by Foothill Boulevard to the southwest, a church to the northwest, apartment buildings to the northeast, and a motel to the southeast. The northwest portion of the site is also used for access to the apartment buildings. Interstate 580 is located adjacent to the southwest of Foothill Boulevard. Because of the Interstate and feeder roads, the nearest downgradient buildings are approximately 600 feet from the site.

The date the site was first occupied by a service station is unknown; however, based on previous tank testing documentation, steel USTs were installed in 1965. In an aerial photograph dated 1968, the site appears to be occupied by a service station in the former configuration. Former station facilities at that time included at least a 7,500-gallon steel gasoline UST; the details of other former USTs are unknown. In the early 1980s, the USTs and piping were replaced with fiberglass equipment. In 1998, due to Chevron's planned sale of the property, the existing station was demolished including the removal of three 10,000-gallon gasoline USTs, a 1,000-gallon used-oil UST, two dispenser islands and associated product piping, three hydraulic hoists, and a clarifier (oil/water separator). The property was sold and subsequently redeveloped with the existing station. Vehicle maintenance is no longer performed onsite. Current and former station facilities are shown on Figure 2.

Environmental work has been ongoing since 1982, and has included the installation of monitoring wells MW-1 through MW-14 and groundwater extraction wells E-1, E-2 (formerly MW-5), and E-3 (formerly MW-4), the drilling of exploratory borings GP-1 through GP-5, and a soil vapor survey. Wells MW-1 through MW-3, MW-6, MW-7, and E-1 were destroyed prior to station demolition in 1998. Groundwater has been monitored since 1989.

Remedial activities have included excavation of approximately 1,110 cubic yards of soil and groundwater pumping (approximately 3,000 gallons) during UST removal/station construction activities. Light non-aqueous phase liquid (LNAPL) was extracted from MW-5 in 1990 and 1991. A groundwater extraction (GWE) system operated from 1991 through 1994 and removed approximately 666,500 gallons of groundwater (7.3 pounds of aqueous-phase hydrocarbons). Oxygen Release Compound® (ORC) socks reportedly also were placed in wells E-3, MW-8, and MW-9 for some time beginning in 1999.

The approximate well, boring, and soil sample locations and the approximate extent of over-excavation are shown on Figure 2. A summary of the environmental work is presented in Appendix A. The soil, groundwater, and soil vapor analytical results are presented in Tables 1 through 3, respectively.

3.0 SITE GEOLOGY AND HYDROGEOLOGY

The site is located at the western edge of the San Leandro Hills approximately 4 miles east of San Francisco Bay and approximately 1.25 miles south of Lake Chabot. The site is relatively flat at an elevation of approximately 125 feet above mean sea level. Soil encountered beneath the site has generally consisted of clay with varying amounts of silt, sand, and gravel to the maximum explored depth of 67.5 feet below grade (fbg); layers of clayey, silty, or gravelly sand were also observed in some borings. Copies of the historical boring logs and previous geologic cross-sections are presented in Appendix B.

Groundwater was encountered in the exploratory and well borings at depths of 15 to 37 fbg. The depth to groundwater in the wells has ranged from approximately 8 to 22.5 feet below top of casing (TOC). The groundwater flow direction is generally to the southwest following the local topography. A groundwater rose diagram is presented on Figure 2. The nearest surface water body is San Lorenzo Creek located approximately 1 mile south of the site.

4.0 RELEASE INFORMATION

- ***Tanks:*** Three 10,000-gallon gasoline USTs and a 1,000-gallon used-oil UST were removed in 1998. Previous steel USTs (installed 1965) reportedly were replaced in the early 1980s.
- ***Release Type:*** Gasoline and related constituents.
- ***Release Source:*** Previous UST system(s). During system testing in 1982, a leaking regular gasoline vapor line was identified. Approximately 25 gallons of product reportedly were lost during the test, and the tanks replaced shortly thereafter. In 1986, the station reported product inventory losses. Testing revealed a leak in the 10,000-gallon regular gasoline tank. The tank was subsequently repaired and retested tight (Appendix A).
- ***Release Discover Date:*** Releases reported during UST system testing in 1982 and 1986.
- ***Affected Media:*** Soil and groundwater.
- ***Free Product:*** Observed in MW-5 at thicknesses ranging from 0.04 to 1.3 feet from September 1990 to May 1991; hand bailing performed; not observed following conversion of 2-inch diameter MW-5 to 4-inch diameter E-2 in June 1991 and subsequent groundwater extraction. The wells were similarly screened.
- ***Corrective Actions:*** UST system replacement/repair/removal; hand bailing of LNAPL in MW-5 in late-1990 and early 1991; GWE system operation from 1991 to 1994; soil over-excavation/groundwater pumping during station demolition in 1998; and ORC placed in wells E-3, MW-8, and MW-9 for some time beginning in July 1999.

5.0 PETROLEUM HYDROCARBONS IN SOIL

The primary constituents of concern (COCs) remaining in soil are total petroleum hydrocarbons as gasoline (TPHg), benzene, and methyl tertiary butyl ether (MTBE). The highest TPHg concentration detected in soil that was not excavated was 710 milligrams per kilogram (mg/kg) in the sample collected at 10 fbg from boring GP-4 drilled just downgradient of the former southwestern dispenser island. The highest benzene concentration detected in unexcavated soil was 1.5 mg/kg in the sample collected at 15 fbg in the boring for well MW-5. MTBE was detected in the majority of the soil samples analyzed at concentrations up to 12.7 mg/kg. However, many of the samples were analyzed for MTBE using EPA Method 8020 which was less reliable. The maximum concentration detected using EPA Method 8260 was 2.5 mg/kg in the sample collected at

17 fbg from boring GP-3. Other constituents either were not detected or were only detected at low concentrations, and therefore are not COCs.

Table A below presents a comparison of the maximum detected COC concentrations in soil remaining at the site to the corresponding San Francisco Bay Regional Water Quality Control Board (RWQCB) environmental screening levels (ESLs) at commercial/industrial sites where groundwater is a current or potential source of drinking water. As stated by the RWQCB, the ESLs are considered to be conservative. The presence of a chemical at a concentration above an ESL does not necessarily indicate that adverse impacts to human health or the environment are occurring; rather exceeding ESLs indicates that the potential for impacts may exist and additional evaluation may be needed.

TABLE A
COMPARISON OF MAXIMUM CONCENTRATIONS IN SOIL TO ESLs
(concentrations in mg/kg)

Constituent	*Highest Detected Concentration in Soil (sample ID; depth; date)*	*Shallow Soil ESLs[a]*	*Deep Soil ESLs[b]*
TPHg	710 (GP-4; 10 fbg; 11-5-09)	83	--
Benzene	1.5 (MW-5; 15 fbg; 5-17-90)	--	0.044
MTBE	2.5[c] (GP-3; 17 fbg; 11/4/09)	--	0.023

a ESLs from Table A-2, *Shallow Soil Screening Levels, Commercial/Industrial Land Use, (groundwater is a current or potential drinking water resource)*, RWQCB, May 2008.
b ESLs from Table C-2, *Deep Soil Screening Levels, Commercial/Industrial Land Use, (groundwater is a current or potential drinking water resource)*, RWQCB, May 2008.
c Maximum concentration detected using EPA Method 8260.

Soil with residual COC concentrations remains in the area of the former gasoline USTs and dispensers; however, concentrations are generally low. Low concentrations were also detected in a few of the samples collected offsite. Based on the analytical results (Table 1), the extent of hydrocarbons in soil is adequately defined. As shown above, the maximum detected concentrations exceed the ESLs; however, these final ESL values are associated with groundwater protection (soil leaching) concerns. The declining trends observed in groundwater indicate that residual hydrocarbon mass flux to groundwater is decreasing. Therefore, although the maximum detected concentrations exceed ESLs, it does not appear that residual hydrocarbon mass is causing a sustainable high strength plume. Rather, residual hydrocarbon mass in soil is likely depleting, resulting in decreasing aqueous-phase hydrocarbon mass and concentrations.

6.0 PETROLEUM HYDROCARBONS IN GROUNDWATER

Groundwater has been monitored for over 20 years. Onsite wells E-2 and E-3 and offsite well MW-14 are currently sampled semi-annually during the first and third quarters, and offsite wells MW-8 and MW-12 are sampled annually during the first quarter. The remaining wells (MW-9, MW-10, MW-11, and MW-13) are no longer sampled. The primary COCs remaining in groundwater are TPHg and MTBE; however, concentrations have decreased and only low concentrations of TPHg (up to 830 micrograms per liter [µg/L]) remain. BTEX and other fuel oxygenates are less significant COCs in groundwater as generally only low concentrations remain. A copy of the second semi-annual 2010 groundwater monitoring report is presented in Appendix C; please note that in this attached report, the data for E-2 and E-3 is reversed due to incorrect labeling of the wells. This error has been corrected on the CRA figures and tables included herein. The most recent concentrations in groundwater and the associated ESLs are presented in Table B below.

TABLE B
MOST RECENT CONCENTRATIONS IN GROUNDWATER AND COMPARISON TO ESLs
(concentrations in µg/L)

Well ID	*TPHg*	*Benzene*	*Toluene*	*Ethyl-benzene*	*Xylenes*	*MTBE*
MW-8	830 (2/3/10)	<1 (2/3/10)	<1 (2/3/10)	<1 (2/3/10)	<1 (2/3/10)	3,900 (2/3/10)
MW-12	<50 (2/3/10)	<0.5 (2/3/10)	1 (2/3/10)	0.9 (2/3/10)	3 (2/3/10)	<0.5 (2/3/10)
MW-14	100 (8/23/10)	<0.5 (8/23/10)	<0.5 (8/23/10)	<0.5 (8/23/10)	<0.5 (8/23/10)	640 (8/23/10)
E-2	520 (8/23/10)	<0.5 (8/23/10)	<0.5 (8/23/10)	4 (8/23/10)	0.7 (8/23/10)	<0.5 (8/23/10)
E-3	550 (8/23/10)	<0.5 (8/23/10)	<0.5 (8/23/10)	<0.5 (8/23/10)	<0.5 (8/23/10)	170 (8/23/10)
ESL	100	1.0	40	30	20	5.0

< Not detected at or above stated laboratory reporting limit
ESL Groundwater environmental screening level at sites where groundwater is a current or potential source of drinking water (Table A), RWQCB-May 2008

Groundwater containing the COCs remains in the area of the former gasoline USTs and dispensers (borings GP-3 through GP-5) and downgradient of these areas (wells E-2 and E-3). TPHg and MTBE were detected in the shallow groundwater samples collected from borings GP-3 through GP-5 at concentrations up to 650 µg/L and 920 µg/L, respectively; benzene was only detected up to 3 µg/L. The concentrations significantly decreased with depth in the borings (Table 2). As these were grab samples, the detected concentrations

are likely higher than actual conditions due to the presence of sediment in the samples. As described in the January 26, 2010 *Additional Site Investigation Report* that documented the drilling of GP-3 through GP-5, it appears cross-contamination occurred during the drilling of previous borings GP-1 and GP-2, thus the results from these two borings are suspect. The results from GP-4 and GP-5 drilled adjacent to these locations using dual-tube methodology appear to confirm this. These two borings also define the vertical extent of hydrocarbons in groundwater.

During the most recent monitoring event, MTBE was detected at 170 µg/L in well E-3. Low concentrations of TPHg are also present in groundwater downgradient of the site in the area of wells MW-8 (830 µg/L) and MW-14 (100 µg/L); as well as higher concentrations of MTBE (3,900 µg/L and 640 µg/L, respectively). Isoconcentration maps of TPHg and MTBE in groundwater are presented on Figures 3 and 4, respectively.

Dissolved Hydrocarbon Trends

Plots of TPHg and MTBE concentrations over time in wells MW-8, MW-14, E-2, and E-3 are presented in Appendix D. As shown on the graphs, although fluctuations occur, the TPHg and MTBE concentrations are generally declining. In MW-14, following an increase during third quarter 2008, concentrations have resumed declining.

The highest concentrations remaining in groundwater are offsite beneath Foothill Boulevard, indicating that the source area has been depleted of hydrocarbons. Decreasing concentrations in MW-8 and MW-14 indicate that the downgradient extent of hydrocarbons is retreating toward the site. Although the dissolved hydrocarbon plume likely extends beyond furthest downgradient well MW-14, the nearest property is 500 feet downgradient of MW-14 and the concentration reductions between MW-8 and MW-14 indicate that hydrocarbons would not reach downgradient receptors. Concentrations are declining, indicating that the plume is decreasing in size and mass due to source removal and natural attenuation.

Trend analysis was performed to estimate when the TPHg and MTBE concentrations in MW-8, MW-14, E-2, and E-3 would reach the ESLs (Appendix E). As shown in Table C below, TPHg and MTBE are expected to reach the ESLs by 2015 (5 years) and 2048 (38 years) at the latest, respectively, which are reasonable amounts of time as it is highly unlikely the water will get used within that time period.

TABLE C SUMMARY OF DEGRADATION CALCULATIONS					
Well	***COC***	***Peak Concentration (µg/L)***	***ESL***	***Most Recent Concentration (µg/L)***	***Estimated Date to Reach ESL***
MW-8	TPHg	4,000	100	830	Mar. 2014
	MTBE	25,000	5	3,900	Aug. 2026
MW-14	MTBE	1,000	5	640	Oct. 2048
E-2	TPHg	9,000	100	520	Sep. 2015
E-3	TPHg	1,700	100	550	May 2015
	MTBE	860	5	170	Jun. 2021

Residual Mass

The masses of TPHg and MTBE remaining in groundwater were estimated to be approximately 0.37 and 0.55 kilograms, respectively. The mass calculations are presented in Appendix F.

7.0 PETROLEUM HYDROCARBONS IN SOIL VAPOR

The previous soil vapor survey at the site was performed in 1989. Although elevated concentrations of total hydrocarbons were detected in several of the samples (Table 3), these samples were collected prior to source removal (UST removal) and remedial activities (over-excavation, GWE system, LNAPL bailing, etc.). Based on this information, the age of the data, and the sampling techniques, these results are not considered representative of current conditions and therefore not considered with regards to evaluating potential risk at the site.

No concentrations in groundwater from shallow grab samples and/or site wells exceed the groundwater ESLs associated with vapor intrusion concerns at residential sites. Therefore, vapor intrusion is not a concern at the site.

8.0 RECOMMENDED LOW-RISK CRITERIA

Based on the information presented above, the site meets the recommended criteria for closure as a low-risk fuel site. Each of these criteria as they pertain to the site is discussed below.

1. ***The site is not located in a managed groundwater recharge area, or impacted groundwater does not discharge to a surface water body***

The local water supply is provided by East Bay Municipal Utility District (EBMUD); the source is the Mokelumne River Basin in the Sierra Nevada range. Shallow groundwater in the site area is not likely to be used as a drinking water source within the time frame during which hydrocarbons in groundwater are predicted to reach water quality objectives. The nearest surface water body is San Lorenzo Creek located approximately 1 mile south (crossgradient) of the site; based on this distance and the hydrogeologic position relative to the site, it is unlikely that hydrocarbons from the site would impact the creek.

2. ***The current and reasonably anticipated future land use is not residential***

The site is currently an active gasoline station, and this land use is expected to remain for the foreseeable future. Potential future use is commercial based on the current land use in the site vicinity and the immediately adjacent freeway.

3. ***The plume is not migrating and the closest water well is more than 1,000 feet from the site***

Concentrations are declining demonstrating that the plume is shrinking.

A 1989 well survey identified nine active water-supply wells (one domestic, one municipal, and seven irrigation) within ½ mile of the site. The well locations were generally identified as to the west/southwest of the site. However, during review of the survey results as part of the March 16, 2004 *Site Conceptual Model* prepared by Cambria Environmental Technology, Inc. (now CRA), it was determined that the previously presented locations of three of the wells (including the municipal and domestic wells) were incorrect (they were outside the ½ mile radius). Based on the updated results, five irrigation wells were located to the southwest and south-southwest of the site; the closest well to the site was approximately 1,000 feet southwest (downgradient). An irrigation well was also located approximately 2,000 feet northwest (crossgradient) of the site. The well survey results and a figure showing the identified wells are presented in Appendix G.

4. ***The maximum concentrations in groundwater are less than 10,000 μg/L for TPHg, 1,000 μg/L for BTEX, and 500 μg/L for oxygenates***

TPHg concentrations in MW-8, MW-14, E-2, and E-3 are well below 10,000 μg/L; the BTEX concentrations in MW-12 and E-2 are well below 1,000 μg/L. The MTBE concentrations in MW-8 and MW-14 are above 500 μg/L, but analysis of the declining trends estimates concentrations will reach this level within a reasonable amount of time (38 years at the latest). The most recent tertiary butyl alcohol (TBA) concentration detected in MW-8 (840 μg/L) exceeded 500 μg/L; however, the extent of the higher concentrations appears limited (not detected in MW-14). As TBA is a breakdown product of MTBE, its presence indicates natural biodegradation of MTBE. As MTBE concentrations continue to decrease, TBA is expected to follow.

5. ***Benzene concentrations in soil are less than 12 mg/kg to protect future construction workers***

As shown in the attached Table 1 and in Table A above, the maximum benzene concentration detected in soil was 1.5 mg/kg.

6. ***The impacted groundwater is at a depth of 50 feet or less***

As described in Section 3.0, groundwater was encountered in the borings at depths ranging from 15 to 37 fbg and the depth to groundwater in the wells has ranged from approximately 8 to 22.5 feet below TOC.

7. ***The release occurred more than 5 years ago***

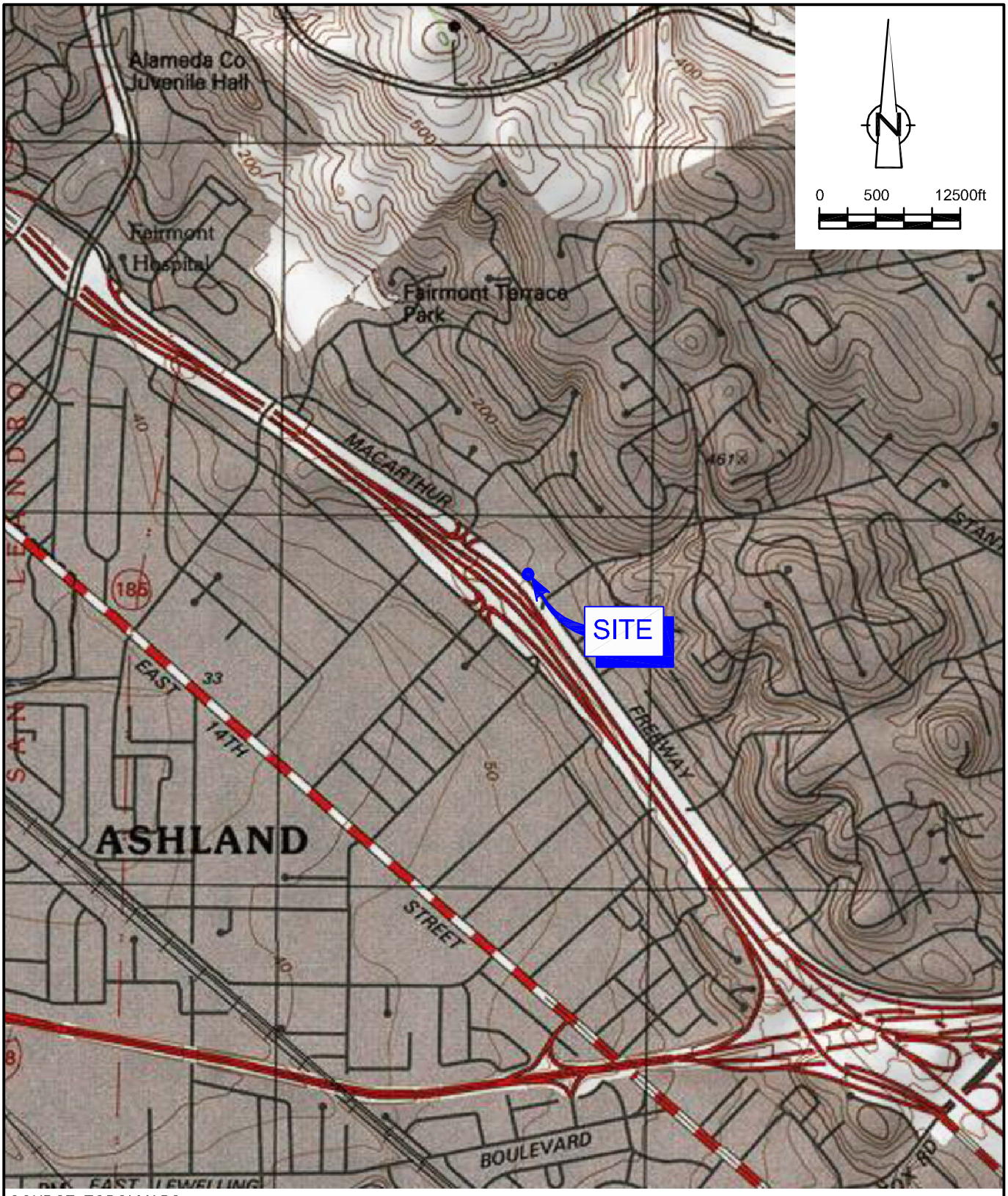
The last known release at the site was in 1986 documented from a product loss report, and the previous UST system was removed during station demolition in 1998.

9.0 CONCLUSIONS AND RECOMMENDATIONS

Based on the site conditions and analytical data, this site satisfies the recommended criteria for closure as a low-risk groundwater case. The extent of hydrocarbons in soil and groundwater has been adequately defined and no further work is necessary to make remedial decisions. The dissolved hydrocarbon plume is decreasing and remaining COC concentrations are expected to reach ESLs by 2048 at the latest. Therefore, there is no need for active remediation to accelerate natural attenuation.

Residual hydrocarbon concentrations in soil and groundwater are below regulatory risk thresholds for human health or the environment currently, or will be below in the foreseeable future. The site is expected to remain in operation as a gasoline station for the foreseeable future and is unlikely to be redeveloped as residential. Therefore, on behalf of Chevron, CRA respectfully requests the site be considered for low-risk case closure.

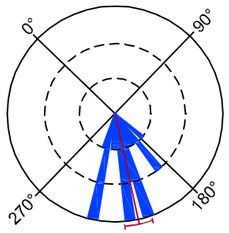
FIGURES



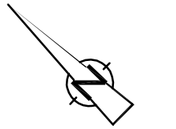
SOURCE: TOPO! MAPS.

figure 1

VICINITY MAP
CHEVRON SERVICE STATION 9-8139
16304 FOOTHILL BOULEVARD
San Leandro, California



HISTORICAL GROUNDWATER FLOW DIRECTION



APARTMENT BUILDING

PLANTER

PLANTER

STATION BUILDING

FORMER GASOLINE USTS

FORMER USED OIL UST

FORMER BUILDING

FORMER HOISTS

CHURCH

MOTEL

DISPENSER ISLANDS

APPROXIMATE EXTENT OF OVER-EXCAVATION (DEPTH VARIES)

FORMER DISPENSER ISLANDS

USTS

PLANTER

MW-1
MW-2
MW-3
MW-6
MW-7
E-1
E-2
E-3

UO1X-11
UO1-9
UO2-9
CLR-6
H1-8
H2-8
H3-8
CS-14
CN-14
BS-14
BN-14
AS-14
AN-14
GP-3
PX3-4
P2-2
PX1-4
P1-2
P3-2
PX4-4
P4-2
GP-5
GP-2
P6-3
P5-3
PX6-4
GP-1
GP-4

FOOTHILL BOULEVARD

MEDIAN

MW-10
MW-8
MW-9
MW-13
MW-14
MW-12
MW-11

MACARTHUR FREEWAY (INTERSTATE 580)

LEGEND

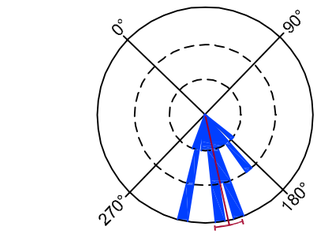
- MONITORING WELL LOCATION
- EXTRACTION WELL LOCATION
- ABANDONED WELL LOCATION
- CONFIRMATION SOIL SAMPLE LOCATION
- EXPLORATORY BORING LOCATION

figure 2

SITE PLAN
CHEVRON SERVICE STATION 9-8139
16304 FOOTHILL BOULEVARD
San Leandro, California

CRA

611971-400(011)GN-WA002 OCT 26/2010



HISTORICAL GROUNDWATER FLOW DIRECTION

CHURCH

APARTMENT BUILDING

PLANTER

PLANTER

MW-1

FORMER USED OIL UST

UO1X-11

UO1-9

UO2-9

MW-2

FORMER BUILDING

CLR-6

H1-8

H3-8

H2-8

FORMER HOISTS

DISPENSER ISLANDS

FORMER GASOLINE USTS

STATION BUILDING

MW-7

CS-14

CN-14

BS-14

BN-14

AS-14

GP-3

AN-14

MW-3

MOTEL

PX3-4

P2-2

PX1-4

P1-2

P3-2

E-1

PX4-4

P4-2

GP-5

FORMER DISPENSER ISLANDS

USTS

PLANTER

P6-3

GP-2

P5-3

PX6-4

GP-1

GP-4

E-3
(550)
8/23/10

E-2
(520)
8/23/10

MW-6

100

FOOTHILL BOULEVARD

MW-10
(NS)

MEDIAN

MW-8
(830)
2/3/10

MW-9
(NS)

MW-13
(NS)

MW-14
(100)
8/23/10

MW-12
(<50)
2/3/10

MW-11
(NS)

MACARTHUR FREEWAY (INTERSTATE 580)

0 10 30ft

LEGEND

- MONITORING WELL LOCATION
- EXTRACTION WELL LOCATION
- ABANDONED WELL LOCATION
- SOIL SAMPLE LOCATION
- EXPLORATORY BORING LOCATION
- 10 — TPHg CONCENTRATION CONTOUR DASHED WHERE INFERRED
- (1,200) — TPHg CONCENTRATIONS ARE IN MICROGRAMS PER LITER (µg/L)
- (NS) — NOT SAMPLED
- 8/23/10 — SAMPLE DATE
- < — NOT DETECTED AT OR ABOVE STATED LABORATORY LIMITS

figure 3

TPHg GROUNDWATER ISOCONCENTRATION MAP
CHEVRON SERVICE STATION 9-8139
16304 FOOTHILL BOULEVARD
San Leandro, California

611971-400(011)GN-WA003 OCT 27/2010

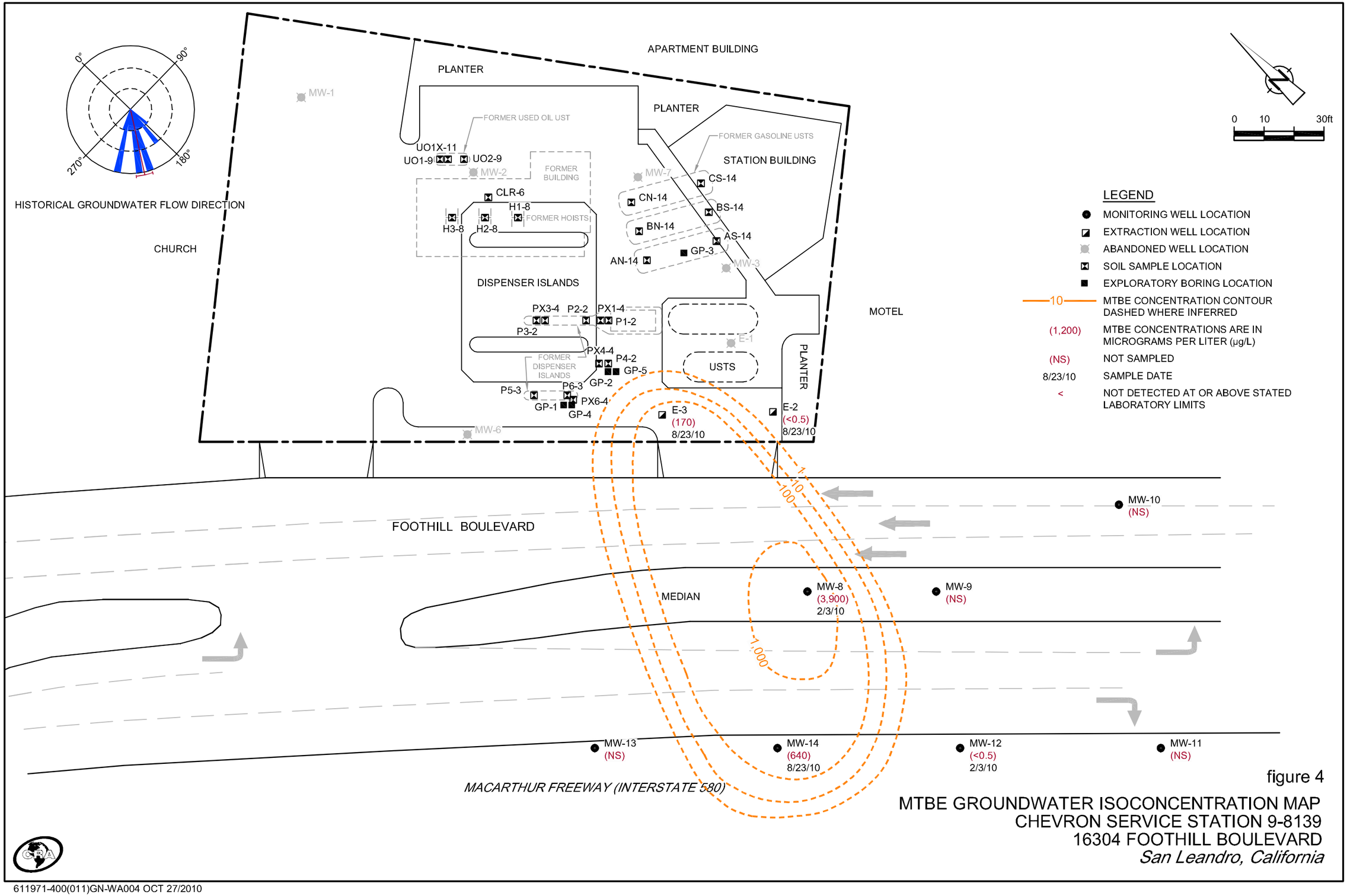


figure 4

MTBE GROUNDWATER ISOCONCENTRATION MAP
CHEVRON SERVICE STATION 9-8139
16304 FOOTHILL BOULEVARD
San Leandro, California

611971-400(011)GN-WA004 OCT 27/2010

TABLES

TABLE 1

SOIL SAMPLE ANALYTICAL RESULTS
CHEVRON STATION 9-8139
16304 FOOTHILL BOULEVARD
SAN LEANDRO, CALIFORNIA

Boring/ Sample ID	*Sample Depth (fbg)*	*Sample Date*	*TOG*	*TPHhf*	*TPHd*	*TPHg*	*Benzene*	*Toluene*	*Ethylbenzene*	*Xylenes*	*MTBE*	*TAME*	*TBA*	*ETBE*	*DIPE*	*HVOCs*	*SVOCs*	*Lead*	*Chromium*	*Cadmium*	*Zinc*	*Nickel*
			← Concentrations reported in milligrams per kilogram (mg/kg) →																			
Monitoring and Extraction Well Borings																						
MW-1	25	11/29/89	**20**	NA	<10	<1	<0.05	<0.05	<0.05	<0.05	NA	NA	NA	NA	NA	NA	NA	**20**	**50**	**1.3**	**31**	**31**
MW-2	5	11/29/89	<20	NA	<10	<1	<0.05	<0.05	<0.05	<0.05	NA	NA	NA	NA	NA	NA	NA	**20**	**28**	**0.9**	**48**	**48**
	25	11/29/89	<20	NA	<10	<1	<0.05	<0.05	<0.05	<0.05	NA	NA	NA	NA	NA	NA	NA	**20**	**33**	**1.1**	**32**	**32**
MW-3	5	12/1/89	NA	NA	NA	<1	<0.05	<0.05	<0.05	<0.05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	15	12/1/89	NA	NA	NA	**6**	**1.1**	**0.64**	**0.08**	**0.44**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	20	12/1/89	NA	NA	NA	<1	**0.14**	<0.05	<0.05	<0.05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-4 (E-3)	10	11/30/89	NA	NA	NA	<1	<0.05	<0.05	<0.05	<0.05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	15	11/30/89	NA	NA	NA	**24**	**0.29**	**3.1**	**3.3**	**16**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	25	11/30/89	NA	NA	NA	<1	<0.05	<0.05	<0.05	<0.05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-5 (E-2)	10	5/17/90	NA	NA	NA	<1	<0.05	<0.05	<0.05	<0.05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	15	5/17/90	NA	NA	NA	**130**	**1.5**	**3**	**1.2**	**7.4**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-6	10.5	5/14/90	NA	NA	NA	**2**	<0.05	<0.05	<0.05	**0.16**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	15.5	5/14/90	NA	NA	NA	**5**	<0.05	<0.05	<0.05	**0.11**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-7	5.5	5/15/90	NA	NA	NA	<1	<0.05	<0.05	<0.05	**0.06**	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA
	10.5	5/15/90	NA	NA	NA	<1	<0.05	<0.05	<0.05	<0.05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
E-1	10.5	5/16/90	NA	NA	NA	<1	<0.05	<0.05	<0.05	<0.05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	15.5	5/16/90	NA	NA	NA	**37**	**0.69**	**2.8**	**0.76**	**4.2**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-8	25	8/30/90	NA	NA	NA	<1	<0.05	<0.05	<0.05	<0.05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-9	15	6/11/91	NA	NA	NA	**43**	**0.08**	**0.11**	**0.26**	**1.9**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-10	15	4/21/92	NA	NA	NA	<1.0	<0.005	<0.005	<0.005	<0.005	NA	NA	NA	NA	NA	NA	NA	**6**	NA	NA	NA	NA
MW-11	15	4/21/92	NA	NA	NA	<1.0	<0.005	<0.005	<0.005	<0.005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
			NA	NA																		
MW-12	11	8/18/00	NA	NA	NA	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-13	16	8/18/00	NA	NA	NA	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	21	8/18/00	NA	NA	NA	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-14	16	8/18/00	NA	NA	NA	<1.0	<0.005	<0.005	<0.005	<0.005	**2.9**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	21	8/18/00	NA	NA	NA	<1.0	<0.005	<0.005	<0.005	<0.005	**0.13**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-1	5	11/16/07	NA	NA	NA	**21**	**0.0009**	<0.0005	**0.015**	**0.024**	**0.13**	**0.005**	**0.25**	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 1

SOIL SAMPLE ANALYTICAL RESULTS
CHEVRON STATION 9-8139
16304 FOOTHILL BOULEVARD
SAN LEANDRO, CALIFORNIA

Boring/ Sample ID	*Sample Depth (fbg)*	*Sample Date*	*TOG*	*TPHhf*	*TPHd*	*TPHg*	*Benzene*	*Toluene*	*Ethylbenzene*	*Xylenes*	*MTBE*	*TAME*	*TBA*	*ETBE*	*DIPE*	*HVOCs*	*SVOCs*	*Lead*	*Chromium*	*Cadmium*	*Zinc*	*Nickel*
			← Concentrations reported in milligrams per kilogram (mg/kg) →																			
GP-1	15	11/16/07	NA	NA	NA	**41**	**0.006**	<0.0009	**0.11**	**0.54**	**0.13**	**0.012**	**0.056**	NA	NA	NA	NA	NA	NA	NA	NA	NA
(cont.)	25	11/16/07	NA	NA	NA	**27**	**0.014**	<0.001	**0.10**	**0.25**	**0.29**	**0.013**	<0.019	NA	NA	NA	NA	NA	NA	NA	NA	NA
	35	11/16/07	NA	NA	NA	<1.0	**0.002**	<0.001	**0.006**	**0.014**	**0.044**	**0.003**	<0.020	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-2	10	11/16/07	NA	NA	NA	<1.0	<0.005	<0.0009	<0.0009	<0.0009	**0.091**	**0.05**	**0.062**	NA	NA	NA	NA	NA	NA	NA	NA	NA
	20	11/16/07	NA	NA	NA	**200**	**0.067**	<0.051	**0.61**	**0.74**	**0.18**	**0.091**	<1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
	35	11/16/07	NA	NA	NA	**14**	**0.003**	<0.001	**0.031**	**0.042**	**1.3**	**0.17**	**0.18**	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-3	10	11/4/09	NA	NA	NA	**5.1**	<0.0005	<0.001	<0.001	<0.001	**0.008**	<0.001	**0.14**	<0.001	<0.001	NA	NA	NA	NA	NA	NA	NA
	15	11/4/09	NA	NA	NA	**2.1**	<0.0005	<0.001	<0.001	<0.001	**0.013**	**0.001**	**0.037**	<0.001	<0.001	NA	NA	NA	NA	NA	NA	NA
	17	11/4/09	NA	NA	NA	**35**	<0.026	<0.052	**0.055**	<0.052	**2.5**	**0.35**	**1.2**	<0.052	<0.052	NA	NA	NA	NA	NA	NA	NA
	20	11/4/09	NA	NA	NA	**210**	**0.13**	<0.053	**5.9**	**2.7**	**1.6**	**0.25**	<1.1	<0.053	<0.053	NA	NA	NA	NA	NA	NA	NA
	25	11/4/09	NA	NA	NA	<1.0	<0.0005	<0.001	<0.001	<0.001	**0.34**	**0.038**	<0.020	<0.001	<0.001	NA	NA	NA	NA	NA	NA	NA
	30	11/4/09	NA	NA	NA	<1.1	<0.0005	<0.0009	<0.0009	<0.0009	**0.0008**	<0.0009	<0.019	<0.0009	<0.0009	NA	NA	NA	NA	NA	NA	NA
	35	11/4/09	NA	NA	NA	<1.0	<0.0005	<0.001	<0.001	<0.001	**0.0007**	<0.001	<0.021	<0.001	<0.001	NA	NA	NA	NA	NA	NA	NA
	40	11/4/09	NA	NA	NA	<0.9	<0.0005	<0.001	<0.001	<0.001	**0.002**	<0.001	<0.021	<0.001	<0.001	NA	NA	NA	NA	NA	NA	NA
	45	11/4/09	NA	NA	NA	<1	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.001	<0.021	<0.001	<0.001	NA	NA	NA	NA	NA	NA	NA
	50	11/4/09	NA	NA	NA	<1.1	<0.0005	<0.001	<0.001	<0.001	**0.003**	<0.001	<0.019	<0.001	<0.001	NA	NA	NA	NA	NA	NA	NA
GP-4	10	11/5/09	NA	NA	NA	**710**	**0.1**	<0.049	**6.7**	**13**	**0.63**	<0.049	<0.98	<0.049	<0.049	NA	NA	NA	NA	NA	NA	NA
GP-5	20	11/6/09	NA	NA	NA	**350**	**0.046**	<0.053	**4.1**	**4**	**0.15**	**0.067**	<1.1	<0.053	<0.053	NA	NA	NA	NA	NA	NA	NA
Station Demolition and Over-Excavation																						
AN-14	14	10/26/98	NA	NA	NA	<200	<1	<1	<1	<2	**8.9**	NA	NA	NA	NA	NA	NA	**3.9**	NA	NA	NA	NA
AS-14	14	10/26/98	NA	NA	NA	**28.8**	<0.1	<0.1	<0.1	**0.726**	**12.7**	NA	NA	NA	NA	NA	NA	**3.6**	NA	NA	NA	NA
BN-14	14	10/26/98	NA	NA	NA	**154**	<0.1	<0.1	**0.875**	**9.86**	**1.41**	NA	NA	NA	NA	NA	NA	**4.3**	NA	NA	NA	NA
BS-14	14	10/26/98	NA	NA	NA	<20	<0.1	<0.1	<0.1	<0.2	**7.69**	NA	NA	NA	NA	NA	NA	**3.2**	NA	NA	NA	NA
CN-14	14	10/26/98	NA	NA	NA	<1	<0.005	<0.005	**0.00622**	**0.0177**	<0.025	NA	NA	NA	NA	NA	NA	**5.1**	NA	NA	NA	NA
CS-14	14	10/26/98	NA	NA	NA	<20	<0.1	<0.1	<0.1	<0.2	**7.51**	NA	NA	NA	NA	NA	NA	**4.6**	NA	NA	NA	NA
P1-2	2	10/26/98	NA	NA	NA	**11.4**	**0.434**	**0.359**	**0.268**	**1.29**	**3.47**	NA	NA	NA	NA	NA	NA	**8.5**	NA	NA	NA	NA
P2-2	2	10/26/98	NA	NA	NA	<2	<0.01	<0.01	<0.01	<0.02	**0.778**	NA	NA	NA	NA	NA	NA	**6.7**	NA	NA	NA	NA
P3-2	2	10/26/98	NA	NA	NA	<200	<1	<1	<1	<2	**8.61**	NA	NA	NA	NA	NA	NA	**6.4**	NA	NA	NA	NA
P4-2	2	10/26/98	NA	NA	NA	**1,560**	<1	**5.24**	**30.6**	**8.46**	<5	NA	NA	NA	NA	NA	NA	**11**	NA	NA	NA	NA
P5-3	3	10/26/98	NA	NA	NA	**1.06**	**0.028**	<0.005	0.00749	<0.01	**0.283**	NA	NA	NA	NA	NA	NA	**6.7**	NA	NA	NA	NA
P6-3	3	10/26/98	NA	NA	NA	**13.3**	**0.372**	**0.09**	**0.248**	**1.15**	**2.26**	NA	NA	NA	NA	NA	NA	**5.5**	NA	NA	NA	NA
H1-8	8	10/26/98	NA	**220**	**59**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
H2-8	8	10/26/98	NA	<10	<1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
H3-8	8	10/26/98	NA	<10	<1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CLR-6	6	10/26/98	**44.3**	NA	**7.3**	**4.72**	<0.01	<0.01	<0.01	<0.02	<0.05	NA	NA	NA	NA	ND	ND[1]	**7.2**	**41**	<0.5	**50**	**37**

TABLE 1

SOIL SAMPLE ANALYTICAL RESULTS
CHEVRON STATION 9-8139
16304 FOOTHILL BOULEVARD
SAN LEANDRO, CALIFORNIA

Boring/ Sample ID	*Sample Depth (fbg)*	*Sample Date*	*TOG*	*TPHhf*	*TPHd*	*TPHg*	*Benzene*	*Toluene*	*Ethylbenzene*	*Xylenes*	*MTBE*	*TAME*	*TBA*	*ETBE*	*DIPE*	*HVOCs*	*SVOCs*	*Lead*	*Chromium*	*Cadmium*	*Zinc*	*Nickel*
			← Concentrations reported in milligrams per kilogram (mg/kg) →																			
UO1-9	9	10/26/98	**3,460**	NA	**410**	**3.9**	<0.005	<0.005	<0.005	<0.01	<0.025	NA	NA	NA	NA	ND	ND[2]	**20**	**29**	<0.5	**51**	**38**
UO2-9	9	10/26/98	<33.3	NA	<1.0	<1	<0.005	<0.005	<0.005	<0.01	**0.0364**	NA	NA	NA	NA	ND	ND	**6.7**	**31**	<0.5	**44**	**30**
UO1X-11	11	10/26/98	**476**	NA	**38**	<1	<0.005	<0.005	<0.005	<0.01	<0.025	NA	NA	NA	NA	ND	ND[3]	**3.5**	**73**	<0.5	**43**	**63**
PX1-4	4	11/2/98	NA	NA	NA	**2.49**	**0.0881**	<0.01	**0.0494**	**0.166**	**2.9**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PX3-4	4	11/2/98	NA	NA	NA	**1.03**	<0.005	<0.005	**0.00851**	<0.01	**1.3**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PX4-4	4	11/2/98	NA	NA	NA	<1.0	<0.005	<0.005	<0.005	<0.01	**0.0407**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PX6-4	4	11/2/98	NA	NA	NA	<1.0	<0.005	<0.005	<0.005	<0.01	**0.555**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Abbreviations/Notes:
fbg = feet below grade
TOG = Total oil and grease
TPHhf/TPHd/TPHg = Total petroleum hydrocarbons as hydraulic fluid, diesel, and gasoline, respectively
MTBE = Methyl tertiary butyl ether
TAME = Tertiary amyl methyl ether
TBA = Tertiary butyl alcohol
ETBE = Ethyl tertiary butyl ether
DIPE = Di-isopropyl ether
<x = Not detected at or above stated laboratory reporting limit
NA = Not analyzed
ND = Not detected (reporting limits vary)
HVOCs = Halogenated volatile organic compounds
SVOCs = Semi-volatile organic compounds
1 = SVOCs not detected except Bis(2-ethylhexyl)phthalate at 0.924 mg/kg
2 = SVOCs not detected except Bis(2-ethylhexyl)phthalate at 0.533 mg/kg and fluorene at 0.379 mg/kg
3 = SVOCs not detected except Bis(2-ethylhexyl)phthalate at 3.42 mg/kg
Note: Shaded samples were collected from soil that was later excavated

TABLE 2

GROUNDWATER SAMPLE ANALYTICAL RESULTS
CHEVRON STATION 9-8139
16304 FOOTHILL BOULEVARD
SAN LEANDRO, CALIFORNIA

Boring ID	*Sample Depth (fbg)*	*Sample Date*	*TPHg*	*Benzene*	*Toluene*	*Ethylbenzene*	*Xylenes*	*MTBE*	*TAME*	*TBA*	*ETBE*	*DIPE*
			← Concentrations reported in micrograms per liter (µg/L) →									
GP-1	32	11/16/07	**6,500**	**110**	**5**	**280**	**740**	**890**	**88**	**11**	NA	NA
	45	11/16/07	**110**	<0.5	<0.5	**1**	**3**	**11**	**2**	<2.0	NA	NA
GP-2	32	11/16/07	**13,000**	<10	<10	**40**	**53**	**49,000**	**7,300**	**360**	NA	NA
	45	11/16/07	**11,000**	**48**	<5	**270**	**350**	**6,100**	**1,500**	**910**	NA	NA
GP-3	15	11/4/09	**650**	**3**	<0.5	**11**	**3**	**490**	**75**	**190**	<0.5	<0.5
GP-4	32	11/5/09	**180**	**0.8**	<0.5	**1**	**1**	**920**	**120**	**5**	<0.5	<0.5
	47	11/5/09	**130**	**0.6**	<0.5	**0.6**	**0.6**	**13**	**1**	<2	<0.5	<0.5
	65	11/5/09	**55**	**3**	<0.5	**6**	**9**	**10**	<0.5	<2	<0.5	<0.5
GP-5	37	11/6/09	**100**	**0.5**	<0.5	**0.9**	**0.5**	**460**	**54**	**7**	<0.5	<0.5
	46	11/6/09	<50	<0.5	<0.5	**1**	<0.5	**2**	<0.5	<2	<0.5	<0.5
	63	11/6/09	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5

Abbreviations/Notes:
fbg = feet below grade
TPHg = Total petroleum hydrocarbons as gasoline
MTBE = Methyl tertiary butyl ether
TAME = Tertiary amyl methyl ether
TBA = Tertiary butyl alcohol
ETBE = Ethyl tertiary butyl ether
DIPE = Di-isopropyl ether
NA = Not analyzed
<x = Not detected at or above stated laboratory reporting limit

TABLE 3

SOIL VAPOR SAMPLE ANALYTICAL RESULTS
CHEVRON STATION 9-8139
16304 FOOTHILL BOULEVARD
SAN LEANDRO, CALIFORNIA

Boring/Sample ID	*Sample Depth (fbg)*	*Sample Date*	*Total Volatile Hydrocarbons*	*Benzene*	*Toluene*	*Ethylbenzene*	*Total Xylenes*
			← Concentrations reported in parts per million (ppm) →				
V1/A	3	6/29/89	**1**	<1	<1	<1	<1
V1/B	8	6/29/89	<1	<1	<1	<1	<1
V1/C	10.5	6/29/89	<1	<1	<1	<1	<1
V2/A	3	6/29/89	<1	<1	<1	<1	<1
V2/B	8	6/29/89	**1**	<1	<1	<1	<1
V2/C	10.5	6/29/89	**1**	<1	<1	<1	<1
V3/A	3	6/29/89	<1	<1	<1	<1	<1
V3/B	8	6/29/89	<1	<1	<1	<1	<1
V3/C	10.5	6/29/89	<1	<1	<1	<1	<1
V4/A	3	6/29/89	**3**	<1	<1	<1	<1
V4/B	8	6/29/89	**5**	<1	<1	<1	<1
V4/C	10.5	6/29/89	**39**	**1**	<1	<1	<1
V5	3	6/29/89	**16**	<1	<1	<1	<1
V6	3	6/29/89	**3**	<1	<1	<1	<1
V7	3	6/29/89	**4**	<1	<1	<1	<1
V8	3	6/29/89	**48**	<1	<1	<1	<1
V9/A	3	6/29/89	<1	<1	<1	<1	<1
V9/B	8	6/29/89	**5**	<1	<1	<1	<1
V9/C	10.5	6/29/89	**10**	<1	<1	<1	<1

Abbreviations/Notes:

fbg = feet below grade

Total Volatile Hydrocarbons = summation of all detected constituents

<x = Not detected at or above stated reporting limit

APPENDIX A

SUMMARY OF ENVIRONMENTAL INVESTIGATION AND REMEDIATION

SUMMARY OF ENVIRONMENTAL INVESTIGATION AND REMEDIATION
CHEVRON STATION 9-8139
16304 FOOTHILL BLVD, SAN LEANDRO, CA

April 1982 Leak Confirmation and Well Installation
In April 1982, the underground storage tanks (USTs) and lines were pressure tested. The tanks tested tight, but a leak was found due to a highly corroded vapor line for the regular gasoline piping. Approximately 25 gallons of product were lost during the test and a temporary spot repair was reportedly made. The regular gasoline UST was noted as a 7,500-gallon steel tank that had been installed approximately 17 years earlier. Shortly thereafter, the USTs and product piping at the site reportedly were replaced. Two observation wells (W-1 and W-2) were installed in the tank backfill.

December 1986 Product Loss, UST System Repair, and Testing
In December 1986, the station reported product inventory losses. A tightness test was performed and a leak in the regular gasoline system (10,000-gallon fiberglass UST) was confirmed and subsequently repaired. The system was retested tight in December 1986 by Gettler-Ryan, Inc. (G-R).

June 1989 Soil Vapor Survey
EA Engineering, Science, and Technology, Inc. (EA) conducted a soil vapor survey in June 1989. A total of 19 soil vapor samples were collected at various depths (3, 8, and/or 10.5 feet below grade [fbg]) from locations V1 through V9. The deeper samples were collected near the gasoline and used-oil USTs. The samples were analyzed for total volatile hydrocarbons (TVH) and benzene, toluene, ethylbenzene, and xylenes (BTEX). TVH was detected in 12 of the samples at concentrations ranging up to 48 parts per million by volume (ppmv). Benzene was only detected in one of the samples (1 ppmv). No toluene, ethylbenzene, or xylenes were detected. Details are presented in EA's July 1989 Report of Investigation, Soil Vapor Contaminant Assessment.

November and December 1989 Well Installation and Well Survey
In November and December 1989, Chemical Processors, Inc. (Chempro) installed groundwater monitoring wells MW-1 through MW-4. Soil samples were collected at various depths (ranging from 5 to 25 fbg) from the well borings and analyzed for total petroleum hydrocarbons as gasoline (TPHg) and BTEX; the three samples collected from borings MW-1 and MW-2 near the used-oil UST were additionally analyzed for TPH as diesel (TPHd), total oil and grease (TOG), and the metals lead, chromium, cadmium, and zinc. The highest concentrations detected included 20 milligrams per kilogram (mg/kg) TOG, 24 mg/kg TPHg, and 1.1 mg/kg benzene. No TPHd was detected.

The initial groundwater samples collected from the wells were analyzed for TPHg, BTEX, and ethylene dibromide (EDB). The highest hydrocarbon concentrations detected were 24,000 micrograms per liter (µg/L) TPHg, and 2,400 µg/L benzene. No EDB was detected. No TPHd or TOG was detected in wells MW-1 and MW-2.

Information on water production wells within ½-mile of the site was requested from the Alameda County Flood Control and Water Conservation District. Nine active water-supply wells (one domestic, one municipal, seven irrigation) were identified within the search radius.

The wells were generally located to the west/southwest of the site. The municipal well was located to the northeast (upgradient), and one of the irrigation wells was located to the northwest (crossgradient) of the site. Details are presented in Chempro's February 21, 1990 Soil and Groundwater Investigation report.

May through August 1990 Well Installation and Hydraulic Testing

In May 1990, Chempro installed monitoring wells MW-5 through MW-7 and 6-inch diameter extraction well E-1. In August 1990, Chempro installed offsite monitoring well MW-8 within the Foothill Boulevard median. The highest hydrocarbon concentrations detected in soil included 130 mg/kg TPHg and 1.5 mg/kg benzene. The initial groundwater samples contained up to 28,000 µg/L TPHg, 920 µg/L benzene, and 2.4 µg/L EDB. Groundwater samples from wells MW-5, MW-6, MW-7, and E-1 were also analyzed for chlorinated hydrocarbons; none were detected.

Hydraulic testing was also performed to evaluate aquifer transmissivity, hydraulic conductivity, and storage coefficient. The testing was performed by pumping from well E-1 and monitoring the response in wells MW-3, MW-5, and MW-7. Based on the testing results, the transmissivity was approximately 550 gallons per day per foot (gpd/ft), the hydraulic conductivity was approximately 4.3×10^{-3} centimeters per second (cm/s), the storage coefficient was approximately 2.6×10^{-3}, and the average groundwater flow velocity was 5.2×10^{-4} cm/s (540 feet/year). The radius of influence for well E-1 was determined to be approximately 100 ft. During the September 7, 1990 monitoring event, approximately 0.04 feet of light non-aqueous phase liquid (LNAPL) was observed in well MW-5; on September 25, 1990, the thickness of LNAPL in MW-5 was measured at 1.3 feet. Details are presented in Chempro's November 7, 1990 Remedial Investigation Report.

1990-1991 Remedial Activities

Chempro installed a groundwater extraction (GWE) system in September 1990. The system initially extracted groundwater from well E-1 and treated it using two 1,000-pound carbon vessels. The GWE system began operation in January 1991; however, the system was shut down due to excessive LNAPL production. Chempro hand bailed LNAPL from MW-5 from October 1990 until January 1991. Details are presented in Chempro's April 1, 1991 Quarterly Summary Report.

June 1991 Well Installation and Reconstruction

In June 1991, Burlington Environmental, Inc. (Burlington) installed offsite monitoring well MW-9 in the median of Foothill Boulevard and converted 2-inch monitoring wells MW-4 and MW-5 into 4-inch extraction wells E-3 and E-2, respectively. The highest hydrocarbon concentrations detected in soil were 43 mg/kg TPHg and 0.08 mg/kg benzene. Initial groundwater samples from MW-9, E-2, and E-3 contained up to 16,000 µg/L TPHg and 460 µg/L benzene. Wells E-2 and E-3 were connected to the GWE system. Details are presented in Burlington's September 23, 1991 Additional Soil and Groundwater Investigation Report.

August 1991 to June 1994 Groundwater Extraction

An oil/water separator was added to the GWE system and it was restarted in August 1991. The system operated almost continuously until June 1994. Treated groundwater was discharged under permit to the sanitary sewer. The system removed approximately 666,500 gallons of

groundwater; however, only 7.3 pounds of aqueous-phase TPHg were removed. No hydrocarbons were detected in the influent GWE groundwater starting in July 1993 and the system was shut off in June 1994 with Alameda County Environmental Health (ACEH) approval. Details are presented in the December 20, 1994 Comprehensive Site Evaluation and Proposed Future Action Plan prepared by Weiss Associates.

April and May 1992 Subsurface Investigation
In April 1992, Burlington installed offsite monitoring wells MW-10 and MW-11. No TPHg or BTEX were detected in soil or groundwater. Details are presented in Burlington's July 28, 1992 Supplemental Soil and Groundwater Investigation Report.

September 1998 Well Destructions
In September 1998, G-R destroyed wells MW-1, MW-2, MW-3, MW-6, and MW-7 (via over-drilling) prior to site renovation. This work was documented in a letter from G-R dated October 26, 1998.

October 1998 Well Destruction
In October 1998, G-R destroyed extraction well E-1 via over-drilling. This work was documented in G-R's November 17, 1998 Well Destruction Report.

October and November 1998 Station Demolition
In October and November 1998, the station was demolished. As part of these activities, three 10,000-gallon, fiberglass gasoline USTs, a 1,000-gallon, fiberglass used-oil UST, associated product piping, three hydraulic hoists, and one clarifier were removed. Groundwater was encountered in the gasoline UST excavation at approximately 12 fbg and a sheen was noted. The highest hydrocarbon concentrations detected in soil from samples beneath the piping, hydraulic hoists, and in the UST excavations were 3,460 mg/kg TOG, 220 mg/kg TPH as hydraulic fluid (TPHhf, detected beneath the hydraulic hoists), 410 mg/kg TPHd, 1,560 mg/kg TPHg, 0.434 mg/kg benzene, and 12.7 mg/kg methyl tert-butyl ether (MTBE).

The former product piping trenches were widened to approximately 6 feet and deepened to approximately 4 fbg to remove source area hydrocarbon mass. Samples PX1-4, PX3-4, PX4-4, and PX6-4 were collected from the bottom of the remedial excavation and the highest concentrations detected were 2.49 mg/kg TPHg, 0.0881 mg/kg benzene and 2.9 mg/kg MTBE.

Soil samples UO1-9 and UO2-9 were collected at approximately 9 fbg beneath the used-oil UST and analyzed for TPHg, TPHd, BTEX, MTBE, TOG, halogenated volatile organic compounds (HVOCs), semi-VOCs, and the metals cadmium, chromium, lead, nickel, and zinc. Analytes detected included 3.9 mg/kg TPHg, 410 mg/kg TPHd, and 3,460 mg/kg. No BTEX were detected and the only MTBE detection was 0.0364 mg/kg MTBE at in sample UO2-9. The only chlorinated compounds detected were up to 0.533 mg/kg bis(2-ethylhexyl)phthalate and 0.379 mg/kg fluorene in sample UO1-9. The half of the excavation where sample UO1-9 was collected was subsequently over-excavated to approximately 11 fbg and sample UO1X-11 was collected. No TPHg, BTEX, or MTBE were detected in sample UO1X-11; TPHd and TOG were detected at 38 mg/kg and 476 mg/kg, respectively. The only chlorinated compound detected was 3.42 mg/kg bis(2-ethylhexyl)phthalate.

Approximately 3,000 gallons of water were removed from the UST excavations and treated prior to discharge. Approximately 80 cubic yards of hydrocarbon-bearing soil was removed and disposed offsite. Approximately 100 cubic yards of material (mainly pea gravel) was sampled and re-used as backfill. Details are presented in Touchstone's January 19, 1999 *UST Removal and Sampling Report*.

1999 Soil Removal During New Station Construction

In July 1999, approximately 900 cubic yards of soil that had been excavated from the new gasoline UST pit was sampled and disposed offsite. In September 1999, approximately 130 cubic yards of soil that had been generated during excavation of utility trenches and site grading activities was sampled and disposed offsite. This work was documented in a letter prepared by G-R dated November 8, 1999.

August 2000 Well Installations

In August 2000, G-R installed offsite monitoring wells MW-12 through MW-14. No TPHg or BTEX were detected in soil. MTBE was detected in the soil samples collected from boring MW-14 at 16 fbg (2.9 mg/kg) and 21 fbg (0.13 mg/kg). Details are presented in G-R's September 26, 2000 Off-Site Well Installation Report.

November 2007 Subsurface Investigation

In November 2007, CRA advanced onsite exploratory borings GP-1 and GP-2 to approximately 45 fbg downgradient of the former dispenser islands to evaluate the vertical extent of hydrocarbons in soil and groundwater. Hydrocarbons detected in soil included up to 200 mg/kg TPHg, 0.067 mg/kg benzene, 1.3 mg/kg MTBE, and 0.17 mg/kg tertiary amyl methyl ether (TAME), and 0.25 mg/kg tertiary butyl alcohol (TBA). Hydrocarbon concentrations detected in soil samples at 35 fbg were an order of magnitude or more below the shallower samples and most were approaching detection limits.

Groundwater samples were also collected from each boring at approximate depths of 32 and 45 fbg and analyzed for the same constituents. The highest concentrations detected in the 45 fbg samples included 11,000 µg/L TPHg, 48 µg/L benzene, 6,100 µg/L MTBE, 1,500 µg/L TAME, and 910 µg/L TBA. Details are presented in CRA's February 1, 2008 Subsurface Investigation Report and Well Destruction Workplan.

November 2009 Additional Subsurface Investigation

In November 2009, CRA advanced onsite exploratory borings GP-3 through GP-5. Boring GP-3 was drilled within the former gasoline UST pit to further evaluate current soil and groundwater quality in this area, and borings GP-4 and GP-5 were drilled adjacent to previous borings GP-1 and GP-2, respectively, to collect deeper groundwater samples. The borings were drilled using dual-tube technology to minimize the risk of cross-contamination.

The highest hydrocarbon concentrations detected in soil included 710 mg/kg TPHg, 0.13 mg/kg benzene, 2.5 mg/kg MTBE, 0.35 mg/kg TAME, and 1.2 mg/kg TBA. No TPHg or BTEX were detected below 20 fbg. MTBE was detected below 20 fbg, but the concentrations were near the detection limit.

Groundwater samples were also collected from borings GP-3 (15 fbg), GP-4 (32, 47, and 65 fbg) and GP-5 (37, 46, and 63 fbg) and analyzed for the same constituents as the soil samples. No

analytes were detected at 63 fbg in GP-5. Groundwater from 65 fbg in GP-4 contained 55 µg/L TPHg, 3 µg/L benzene, and 10 µg/L MTBE. No TAME or TBA was detected.

Based on the investigation results, the vertical extent of the hydrocarbons in soil in the former UST pit area, and the vertical extent of hydrocarbons in soil and groundwater in the former dispenser island area have been adequately defined. Details are presented in CRA's January 26, 2010 *Additional Site Investigation Report*.

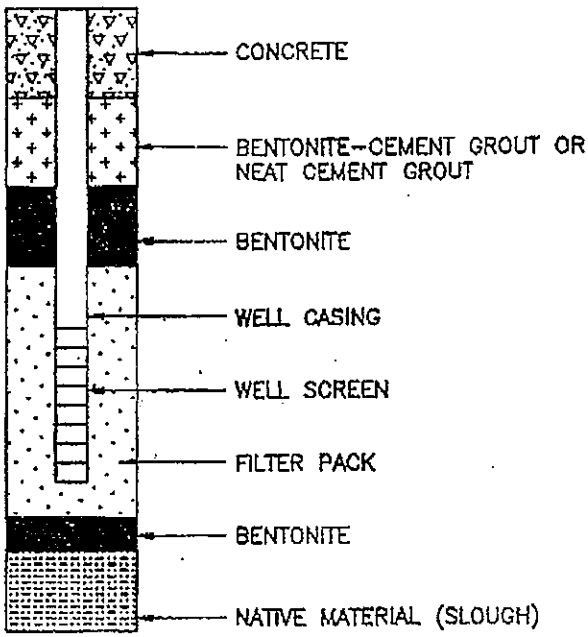
APPENDIX B

HISTORICAL BORING LOGS AND PREVIOUS CROSS-SECTIONS

BURLINGTON ENVIRONMENTAL INC.

EXPLANATION OF SYMBOLS ON EXPLORATORY BORING LOGS

WELL DETAIL COLUMN



SAMPLE COLUMN

BAG/BULK SAMPLES

FIVE-FOOT SPLIT BARREL SAMPLER (CONTINUOUS SAMPLER)

MODIFIED CALIFORNIA SPLIT SPOON

OTHER SAMPLERS (SEE REMARKS FOR TYPE AND SIZE)

PITCHER BARREL

ROCK CORE (SEE REMARKS FOR TYPE AND SIZE)

SHELBY TUBE SAMPLER

STANDARD PENETRATION TEST SPLIT SPOON SAMPLER (2" OD)

(OVER)

EXPLANATION OF SYMBOLS ON
EXPLORATORY BORING LOGS
(CONTINUED)

Ground-Water Level Column

DEPTH TO FIRST OBSERVED GROUND WATER

DEPTH TO STABILIZED GROUND WATER

Miscellaneous

2.5 YR 6/2 — Color as field checked to Munsell Soil Color Chart (1975 Edition)

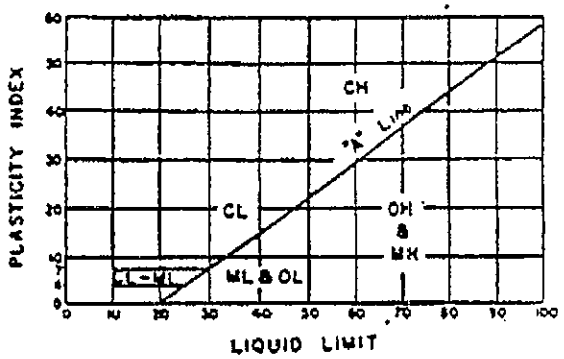
PENETRATION — Blows required to drive sampler 1 foot into soil.
Standard drive hammer weight: 140 pounds.
Standard drop: 30 inches

MAJOR DIVISIONS		SYMBOLS	TYPICAL SOIL DESCRIPTIONS
COARSE GRAINED SOILS (More than 1/2 of soil > no. 200 sieve size)	GRAVELS (More than 1/2 of coarse fraction > no. 4 sieve size)	GW	Well graded gravels or gravel-sand mixtures, little or no fines
		GP	Poorly graded gravels or gravel-sand mixtures, little or no fines
		GM	Silty gravels, gravel-sand-silt mixtures
		GC	Clayey gravels, gravel-sand-clay mixtures
	SANDS (More than 1/2 of coarse fraction < no. 4 sieve size)	SW	Well graded sands or gravelly sands, little or no fines
		SP	Poorly graded sands or gravelly sands, little or no fines
		SM	Silty sands, sand-silt mixtures
		SC	Clayey sands, sand-clay mixtures
FINE GRAINED SOILS (More than 1/2 of soil < no. 200 sieve size)	SILTS & CLAYS LL < 50	ML	Inorganic silts and very fine sands, rock flour, silty or clayey fine sands or clayey silts with slight plasticity
		CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays
		OL	Organic silts and organic silty clays of low plasticity
	SILTS & CLAYS LL > 50	MH	Inorganic silts, micaceous or diatomaceous fine sandy or silty soils, elastic silts
		CH	Inorganic clays of high plasticity, fat clays
		OH	Organic clays of medium to high plasticity, organic silty clays, organic silts
HIGHLY ORGANIC SOILS		Pt	Peat and other highly organic soils

CLASSIFICATION CHART
(Unified Soil Classification System)

CLASSIFICATION	RANGE OF GRAIN SIZES	
	U.S. Standard Sieve Size	Grain Size in Millimeters
BOULDERS	Above 12"	Above 305
COBBLES	12" to 3"	305 to 76.2
GRAVEL	3" to No. 4	76.2 to 4.76
coarse	3" to 3/4"	76.2 to 19.1
fine	3/4" to No. 4	19.1 to 4.76
SAND	No. 4 to No. 200	4.76 to 0.074
coarse	No. 4 to No. 10	4.76 to 2.00
medium	No. 10 to No. 40	2.00 to 0.420
fine	No. 40 to No. 200	0.420 to 0.074
SILT & CLAY	Below No. 200	Below 0.074

GRAIN SIZE CHART



PLASTICITY CHART

METHOD OF SOIL CLASSIFICATION

LOG OF EXPLORATORY BORING

PROJECT NUMBER 987158 BORING NO. MW-1

PROJECT NAME CHEVRON SERVICE STATION NO. 9-8139 PAGE 1 OF 3

BY K. Elliot DATE 11/29/89 SURFACE ELEV. 127.28 ft.

PID (ppm)	RECOVERY (in/in)	BLOW CT. (blws/6")	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-GRAPHIC COLUMN	DESCRIPTION	WELL DETAIL
							ASPHALT AND GRAVEL FILL	
							SANDY CLAY (CL), very dark gray (5YR, 3/1); 70-80% low plasticity fines; 15-25% coarse sand; trace fine to coarse gravel; occasional roots; stiff; damp.	
9.1	18/18	5 7 14		5				
8.2	18/18	4 8 15	12/4/89 ▼	10			@ 10': dark grayish brown (10YR, 4/3); trace fine sand.	
9.1	18/18	5 11 18		15			@ 15': dark yellowish brown (10 YR, 4/4); 5-10% fine sand; very stiff.	
			11/29/89 ▽	20				

REMARKS

Boring drilled using eight-inch-diameter hollow-stem augers. Soil samples were collected using a two-inch-diameter modified California split-spoon sampler. The boring was sealed with neat-cement grout from 30 to 41.5 feet, and converted to a two-inch-diameter monitor well. See attached Well Detail.

David C. Cyfel RG# 4603

LOG OF EXPLORATORY BORING

PROJECT NUMBER 987158 BORING NO. MW-1

PROJECT NAME CHEVRON SERVICE STATION NO. 9-8139 PAGE 2 OF 3

BY K. Elliot DATE 11/29/89 SURFACE ELEV. 127.28 ft.

PID (ppm)	RECOVERY (in/in)	BLOW CT. (blws/6")	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-GRAPHIC COLUMN	DESCRIPTION	WELL DETAIL
7.3	18/18	4 8 13					SANDY CLAY (CL), dark yellowish brown (10 YR, 4/4); 70-80% medium plasticity fines; 20-30% fine sand; stiff; damp.	
3.5	17/18	6 10 25		25			@ 25-32': 1/2" to 3/4" diameter caliche clasts.	
							@ 29-30': water-bearing zone.	
5.2	17/18	6 9 15		30				
6.0	16/18	6 11 23		35			@ 35-36': yellowish brown (10 YR, 5/4); 80-90% low plasticity fines; 10-20% fine sand; very stiff; damp.	
				40				

REMARKS

Boring drilled using eight-inch-diameter hollow-stem augers. Soil samples were collected using a two-inch-diameter modified California split-spoon sampler. The boring was sealed with neat-cement grout from 30 to 41.5 feet, and converted to a two-inch-diameter monitor well. See attached Well Detail.

LOG OF EXPLORATORY BORING

PROJECT NUMBER 987158 BORING NO. MW-1

PROJECT NAME CHEVRON SERVICE STATION NO. 9-8139 PAGE 3 OF 3

BY K. Elliot DATE 11/29/89 SURFACE ELEV. 127.28 ft.

PID (ppm)	RECOVERY (in/in)	BLOW CT. (blws/6")	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-GRAPHIC COLUMN	DESCRIPTION	WELL DETAIL
4.6	16/18	5 6 11					SANDY CLAY (CL) (continued). BORING TERMINATED AT 41.5 FEET.	

45

50

55

60

REMARKS

Boring drilled using eight-inch-diameter hollow-stem augers. Soil samples were collected using a two-inch-diameter modified California split-spoon sampler. The boring was sealed with neat-cement grout from 30 to 41.5 feet, and converted to a two-inch-diameter monitor well. See attached Well Detail.

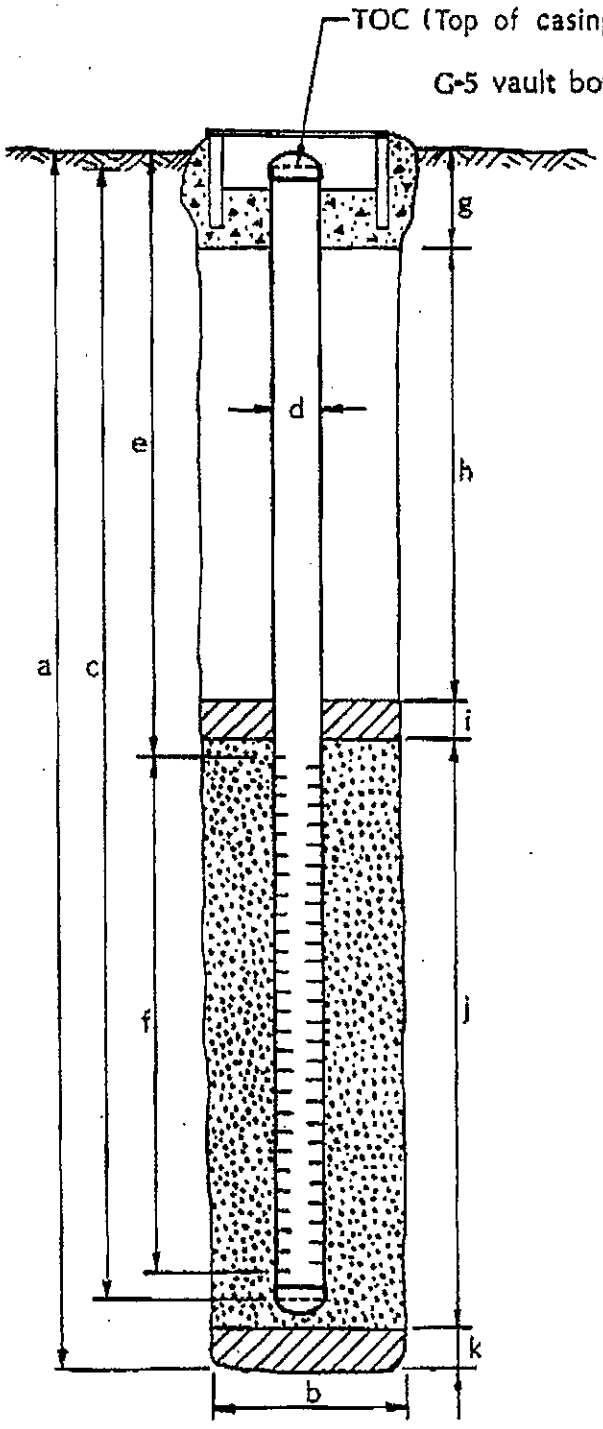
WELL DETAILS

CHEMPRO
A Burlington Environmental Inc. Company

CHEMICAL PROCESSORS, INC.
950 "B" Gilman Street
Berkeley, CA 94710

PROJECT NUMBER 987158
PROJECT NAME SS No. 9-8139
LOCATION 16304 Foothill Blvd.
WELL PERMIT NO. 89676

BORING / WELL NO. MW-1
TOP OF CASING ELEV. 127.09'
GROUND SURFACE ELEV. 127.28'
DATUM MSL
INSTALLATION DATE 12/1/89



EXPLORATORY BORING

a. Total depth 41.5 ft.
b. Diameter 8 in.
Drilling method Hollow-stem Auger

WELL CONSTRUCTION

c. Total casing length 30 ft.
Material Schedule 40 PVC
d. Diameter 2 in.
e. Depth to top perforations 25 ft.
f. Perforated length 5 ft.
Perforated interval from 25 to 30 ft.
Perforation type Machine Slot
Perforation size 0.020"
g. Surface seal 1 ft.
Seal material Concrete
h. Backfill 19.3 ft.
Backfill material Neat Cement
i. Seal 1.5 ft.
Seal material Bentonite
j. Gravel pack 8.2 ft.
Pack material #3 Sand
k. Bottom seal 11.5 ft.
Seal material Neat Cement

Form prepared by _____

LOG OF EXPLORATORY BORING

PROJECT NUMBER 987158 BORING NO. MW-2

PROJECT NAME CHEVRON SERVICE STATION NO. 9-8139 PAGE 1 OF 2

BY K. Elliot DATE 11/29/89 SURFACE ELEV. 126.37 ft.

PID (ppm)	RECOVERY (in/in)	BLOW CT. (blws/6")	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-GRAPHIC COLUMN	DESCRIPTION	WELL DETAIL
							ASPHALT AND DEBRIS FILL	
							SANDY CLAY (CL), brown (10YR, 4/3); 75-85% low plasticity fines; 10-20% fine to coarse sand; trace fine gravel; angular, light colored clasts; stiff; damp.	
58.3	18/18	5 10 12		5				
							@ 9': clay pipe fragments.	
34.1	18/18	4 8 11	12/4/89 ▼	10			CLAYEY SAND (SC), yellowish brown (10YR, 5/4); 15-25% low plasticity fines; 70-80% fine to medium sand; trace fine gravel; stiff; damp.	
20.5	18/18	5 10 15		15			SANDY CLAY (CL), yellowish brown (10YR, 5/4); 75-85% low plasticity fines; 15-25% fine to medium sand; stiff; damp.	
				20				

REMARKS

Boring was drilled using eight-inch-diameter hollow-stem augers. Soil samples were collected using a two-inch-diameter modified California split-spoon sampler. The boring was converted to a two-inch-diameter monitor well. See attached Well Detail.

David C Tyler RG#4603

LOG OF EXPLORATORY BORING

PROJECT NUMBER 987158 BORING NO. MW-2

PROJECT NAME CHEVRON SERVICE STATION NO. 9-8139 PAGE 2 OF 2

BY K. Elliot DATE 11/29/89 SURFACE ELEV. 126.37 ft.

PID (ppm)	RECOVERY (in/in)	BLOW CT. (blws/6")	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-GRAPHIC COLUMN	DESCRIPTION	WELL DETAIL
19.2	18/18	5 9 14					SANDY CLAY (CL) (continued). @ 20': 3/4" diameter caliche clasts.	
19.0	18/18	5 10 22	11/29/89 ▽	25				
24.5	16/18	4 18 29		30			BORING TERMINATED AT 31.5 FEET.	
				35				
				40				

REMARKS

Boring was drilled using eight-inch-diameter hollow-stem augers. Soil samples were collected using a two-inch-diameter modified California split-spoon sampler. The boring was converted to a two-inch-diameter monitor well. See attached Well Detail.

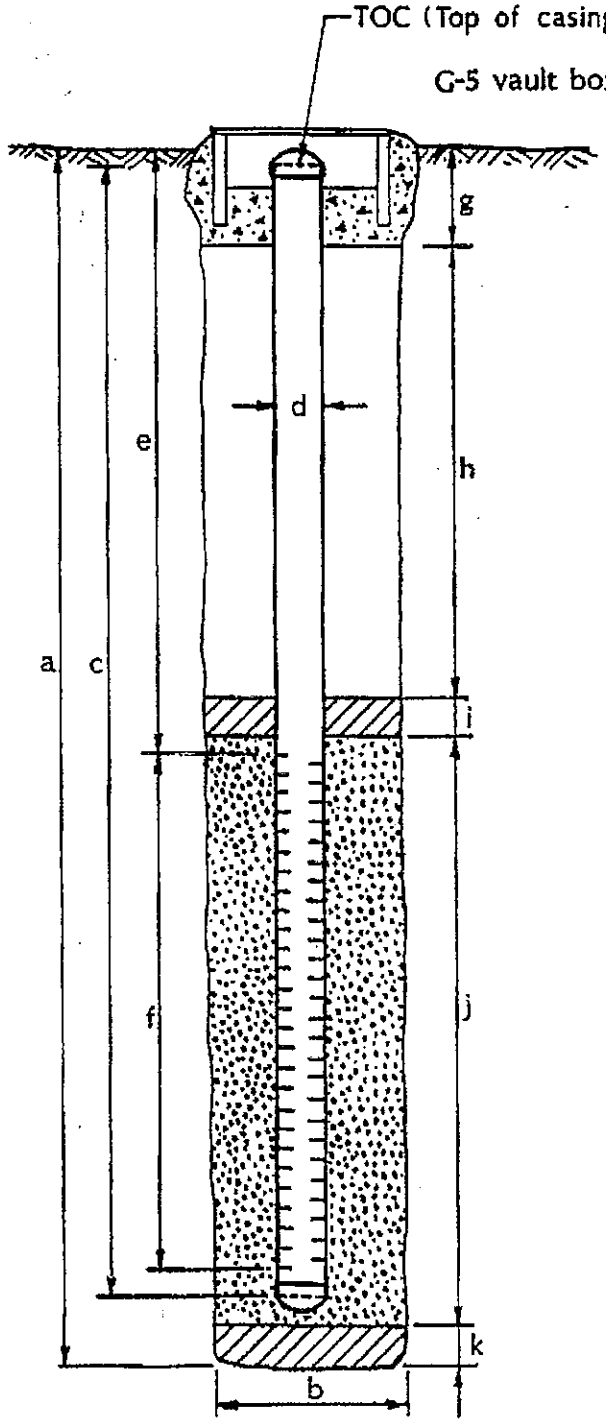
WELL DETAILS

CHEMPRO
A Burlington Environmental Inc. Company

CHEMICAL PROCESSORS INC
950 "B" Gilman Street
Berkeley, CA 94710

PROJECT NUMBER 987158
PROJECT NAME SS No. 9-8139
LOCATION 16304 Foothill Blvd.
WELL PERMIT NO. 89676

BORING / WELL NO. MW-2
TOP OF CASING ELEV. 125.98'
GROUND SURFACE ELEV. 126.37'
DATUM MSL
INSTALLATION DATE 11/30/89



EXPLORATORY BORING

a. Total depth 31.5 ft.
b. Diameter 8 in.
Drilling method Hollow-stem Auger

WELL CONSTRUCTION

c. Total casing length 30 ft.
Material Schedule 40 PVC
d. Diameter 2 in.
e. Depth to top perforations 25 ft.
f. Perforated length 5 ft.
Perforated interval from 25 to 30 ft.
Perforation type Machine Slot
Perforation size 0.020"
g. Surface seal 1.5 ft.
Seal material Concrete
h. Backfill 20 ft.
Backfill material Neat Cement
i. Seal 1.5 ft.
Seal material Bentonite
j. Gravel pack 8.5 ft.
Pack material #3 Sand
k. Bottom seal N/A ft.
Seal material N/A

Form prepared by _____

LOG OF EXPLORATORY BORING

PROJECT NUMBER 987158 — BORING NO. MW-3

PROJECT NAME CHEVRON SERVICE STATION NO. 9-8139 — PAGE 1 OF 2

BY K. Elliot — DATE 12/1/89 — SURFACE ELEV. 127.04 ft.

PID (ppm)	RECOVERY (in/in)	BLOW CT. (blws/6")	DESCRIPTION
			ASPHALT AND FILL
			SANDY CLAY (CL), yellowish brown (10YR, 5/4); 60-75% low plasticity fines; 20-30% fine sand; 5-10% coarse sand; very stiff; damp.
68.4	17/18	9 12 19	
193	12/18	11 11 15	**CLAYEY SAND (SC)**, olive brown (2.5Y, 4/4); 15-35% low plasticity fines; 60-75% fine to coarse sand; 5-10% fine gravel: angular clasts, dark iron-oxide staining; very stiff; damp.
229	18/18	8 16 25	**GRAVELLY SAND (SW)**, light olive brown (2.5Y, 5/6); 15-25% low plasticity fines; 40-50% fine to coarse sand; 25-35% fine to coarse gravel, 2-3"-thick lenses of coarse gravel; hard; damp; slight hydrocarbon odor.
	12/12	27 refusal	
	18/18	11 25 30	
3340	18/18	6 7	@ 19': moderate hydrocarbon odor.

GROUND WATER LEVELS: 12/4/89 ▼

DEPTH IN FT.: 5, 10, 15, 20

SAMPLES

LITHOGRAPHIC COLUMN

REMARKS

Boring was drilled using eight-inch-diameter hollow-stem augers. Soil samples were collected using a two-inch-diameter modified California split-spoon sampler. The boring was sealed with bentonite from 25.5 to 30 feet, and converted to a two-inch-diameter monitor well. See attached Well Detail.

David C. Tight RG#4603

LOG OF EXPLORATORY BORING

PROJECT NUMBER 987158 BORING NO. MW-3

PROJECT NAME CHEVRON SERVICE STATION NO. 9-8139 PAGE 2 OF 2

BY K. Elliot DATE 12/1/89 SURFACE ELEV. 127.04 ft.

PID (ppm)	RECOVERY (in/in)	BLOW CT. (blws/6")	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-GRAPHIC COLUMN	DESCRIPTION	WELL DETAIL
		17					SANDY CLAY (CL), light olive brown (2.5Y, 5/6); 55-65% low plasticity fines; 25-35% fine to medium sand; trace coarse sand; trace coarse gravel; green mottling; very stiff; damp.	
117	18/18	5						
		13						
		18						
			12/1/89 ▽				@ 24': auger chatter.	
							GRAVELLY CLAY (CL), dark yellowish brown (10YR, 4/4); 65-80% nonplastic fines; 10-15% coarse sand; 10-20% fine to coarse gravel; damp.	
				25				
37.8	18/18	5					SANDY CLAY (CL), yellowish brown (10YR, 5/4); 65-80% medium plasticity fines; 15-25% fine to coarse sand; 5-10% fine gravel; stiff; damp.	
		5						
		9						
							@ 28.5-30': 70-80% medium plasticity fines; 20-30% fine to coarse sand.	
71.8	17/18	7						
		12						
		22					BORING TERMINATED AT 30 FEET.	
				30				
				35				
				40				

REMARKS

Boring was drilled using eight-inch-diameter hollow-stem augers. Soil samples were collected using a two-inch-diameter modified California split-spoon sampler. The boring was sealed with bentonite from 25.5 to 30 feet, and converted to a two-inch-diameter monitor well. See attached Well Detail.

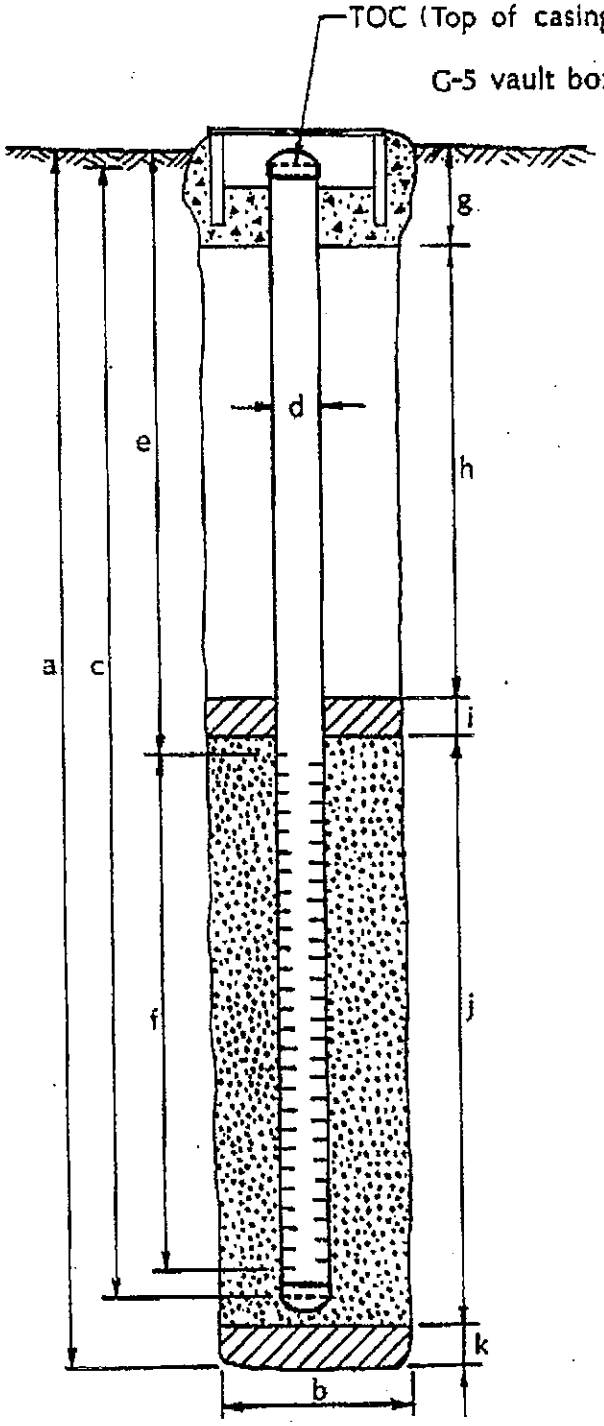
WELL DETAILS

CHEMPRO
A Burlington Environmental Inc. Company

CHEMICAL PROCESSORS, INC.
950 "B" Gilman Street
Berkeley, CA 94710

PROJECT NUMBER 987158
PROJECT NAME SS #9-8139
LOCATION 16304 Foothill Blvd.
WELL PERMIT NO. 89676

BORING / WELL NO. MW-3
TOP OF CASING ELEV. 126.84'
GROUND SURFACE ELEV. 127.04'
DATUM MSL
INSTALLATION DATE 12/1/89



EXPLORATORY BORING

a. Total depth 30 ft.
b. Diameter 8 in.
Drilling method Hollow-stem Auger

WELL CONSTRUCTION

c. Total casing length 25.5 ft.
Material Schedule 40 PVC
d. Diameter 2 in.
e. Depth to top perforations 15.5 ft.
f. Perforated length 10 ft.
Perforated interval from 15.5 to 25.5 ft.
Perforation type Machine Slot
Perforation size 0.020"
g. Surface seal 1 ft.
Seal material Concrete
h. Backfill 9.5 ft.
Backfill material Neat Cement
i. Seal 2 ft.
Seal material Bentonite
j. Gravel pack 13 ft.
Pack material #3 Sand
k. Bottom seal 4.5 ft.
Seal material Bentonite

Form prepared by _____

LOG OF EXPLORATORY BORING

PROJECT NUMBER 987158 BORING NO. MW-4

PROJECT NAME CHEVRON SERVICE STATION NO. 9-8139 PAGE 1 OF 2

BY K. Elliot DATE 11/30/89 SURFACE ELEV. 125.43 ft.

PID (ppm)	RECOVERY (in/in)	BLOW CT. (blws/6")	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-GRAPHIC COLUMN	DESCRIPTION	WELL DETAIL
							ASPHALT AND FILL	
							SANDY CLAY (CL), very dark grayish brown (10YR, 3/2); 75-85% low plasticity fines; 10-20% coarse sand; trace fine gravel; angular clasts; very stiff; damp.	
43.8	16/18	7 13 20		5			@ 5.5': dark yellowish brown (10 YR, 4/6); 60-70% low plasticity fines; 20-30% fine sand; trace coarse sand; trace angular gravel; very stiff; damp.	
51.8	18/18	4 5 9		10			@ 10': decreasing sand content.	
1600	18/18	6 8 17	12/4/89 ▼	15			@ 15': green mottling; moderate hydrocarbon odor.	
			11/30/89 ▽	20				

REMARKS

Boring was drilled using eight-inch-diameter hollow-stem augers. Soil samples were collected using a two-inch-diameter modified California split-spoon sampler. The boring was sealed with neat cement grout from 22.75 to 26.5 feet, and converted to a two-inch-diameter monitor well. See attached Well Detail.

David C Tyler RG#4603

LOG OF EXPLORATORY BORING

PROJECT NUMBER 987158 BORING NO. MW-4

PROJECT NAME CHEVRON SERVICE STATION NO. 9-8139 PAGE 2 OF 2

BY K. Elliot DATE 11/30/89 SURFACE ELEV. 125.43 ft.

PID (ppm)	RECOVERY (in/in)	BLOW CT. (blws/6")	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-GRAPHIC COLUMN	DESCRIPTION	WELL DETAIL
74.9	14/18	5 5 11					SANDY CLAY (CL) (continued). @ 20': damp; no hydrocarbon odor.	
103	12/18	4 5 8		25			@ 25': 40-50% fine to medium sand; trace angular gravel. BOTTOM OF BORING AT 26.5 FEET.	
				30				
				35				
				40				

REMARKS

Boring was drilled using eight-inch-diameter hollow-stem augers. Soil samples were collected using a two-inch-diameter modified California split-spoon sampler. The boring was sealed with neat cement grout from 22.75 to 26.5 feet, and converted to a two-inch-diameter monitor well. See attached Well Detail.

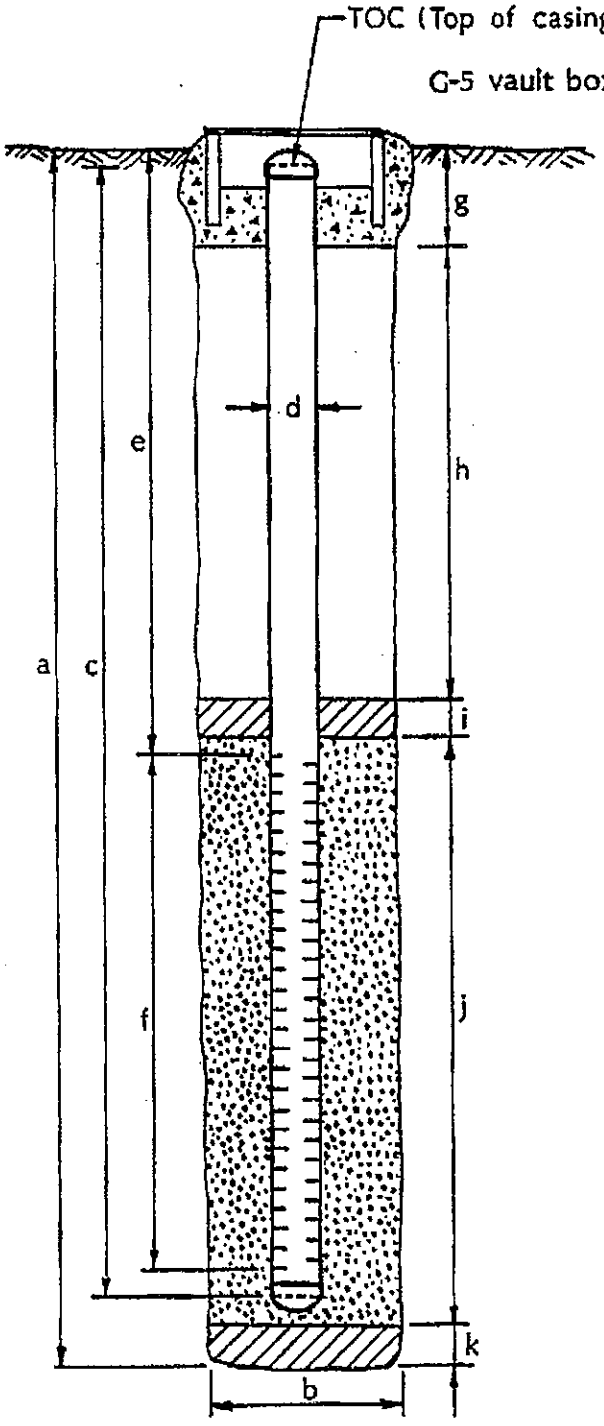
WELL DETAILS

CIEMPRO
A Burlington Environmental Inc Company

CHEMICAL PROCESSORS INC
950 "B" Gilman Street
Berkeley, CA 94710

PROJECT NUMBER 987158
PROJECT NAME SS #9-8139
LOCATION 16304 Foothill Blvd.
WELL PERMIT NO. 89676

BORING / WELL NO. MW-4
TOP OF CASING ELEV. 125.22'
GROUND SURFACE ELEV. 125.43'
DATUM MSL
INSTALLATION DATE 12/1/89



EXPLORATORY BORING

a. Total depth 26.5 ft.
b. Diameter 8 in.
Drilling method Hollow-stem Auger

WELL CONSTRUCTION

c. Total casing length 22 ft.
Material Schedule 40 PVC
d. Diameter 2 in.
e. Depth to top perforations 12 ft.
f. Perforated length 10 ft.
Perforated interval from 12 to 22 ft.
Perforation type Machine Slot
Perforation size 0.020"
g. Surface seal 1 ft.
Seal material Concrete
h. Backfill 9 ft.
Backfill material Neat Cement
i. Seal 1 ft.
Seal material Bentonite
j. Gravel pack 11.75 ft.
Pack material #3 Sand
k. Bottom seal 3.75 ft.
Seal material Neat Cement

Form prepared by

LOG OF EXPLORATORY BORING

PROJECT NUMBER 1158 — BORING NO. MW-5

PROJECT NAME CHEVRON SERVICE STATION NO. 9-8139 — PAGE 1 OF 2

BY D. Maupin — DATE 5/17/90 — SURFACE ELEV. 126.12 ft.

PID (ppm)	POCKET PENETROMETER ton/sq ft	BLOW CT. (blws/6")	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHOGRAPHIC COLUMN	DESCRIPTION	WELL DETAIL
							ASPHALT. FILL.	
10.2	3.0	6 13 24		5			SANDY CLAY (CL), yellowish brown (10YR, 5/8); 50-60% moderate to high plasticity fines; 40-50% fine to coarse sand; trace very fine gravel; very stiff; damp; no product odor.	
15.5		5 8 11		10			@ 10': light olive brown (2.5Y, 5/4); 60-70% high plasticity fines; 30-40% fine to coarse sand; trace fine gravel; very stiff; damp; no product odor.	
4622		6 11 23	5-17-90 ▼	15			CLAYEY SAND (SC) , dark yellowish brown (10YR, 4/6); 30-40% moderate to high plasticity fines; 40-50% fine to coarse sand; 10-20% fine gravel; dense; damp; strong product odor. @ 17': 40-50% moderate to high plasticity fines; 50-60% fine to coarse sand; medium dense; strong product odor.	
3418	2.7	NA	▽				@ 17.5-18.5': gravelly sand lense; 50-60% fine to coarse sand; 20-30% fine gravel.	
	2.5	NA	5-17-90				@ 18': olive gray (5Y, 4/2); medium dense; wet; strong product odor. @ 19.5': gray coated worm holes, dominantly vertical.	
				20				

REMARKS

Boring was drilled to 28.5' using 6.5" diameter hollow-stem augers. Soil samples were collected at 5' intervals with a 2" diameter modified California split-spoon sampler for the upper 16.5' of the boring. From 16.5' to 30' soil samples were collected using a 2.5" diameter Moss continuous sampler. A groundwater monitoring well was installed using 2" diameter PVC casing (see attached well detail).

David C. Piglet RG# 4603 Exp: 6/91

LOG OF EXPLORATORY BORING

PROJECT NUMBER 1158 BORING NO. MW-5

PROJECT NAME CHEVRON SERVICE STATION NO. 9-8139 PAGE 2 OF 2

BY D. Maupin DATE 5/17/90 SURFACE ELEV. 126.12 ft.

PID (ppm)	POCKET PENETRO-METER ton/sq ft	BLOW CT. (blws/6")	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-GRAPHIC COLUMN	DESCRIPTION	WELL DETAIL
37.2	2.5	NA					CLAYEY SAND (SC), continued. @ 20': yellowish brown (10YR, 5/6); 35-45% moderate to high plasticity fines; 40-50% fine to coarse sand; 10-15% fine to medium gravel; Mn-oxide staining in soil; medium dense; damp to moist; no product odor.	
		NA						
40.4		NA					@ 21.5': damp to moist, no product odor.	
				25				
40.7	1.5	NA					SANDY CLAY (CL), dark yellowish brown (10YR, 4/4); 65-75% high plasticity fines; 25-35% fine to coarse sand; trace fine gravel, subrounded to rounded; very stiff; moist; no product odor.	
	3.8	NA						
22.1	>4.0	NA					@ 28.5': hard; no product odor.	
				30			BORING TERMINATED AT 28.5' AND SAMPLED TO 30'.	
				35				
				40				

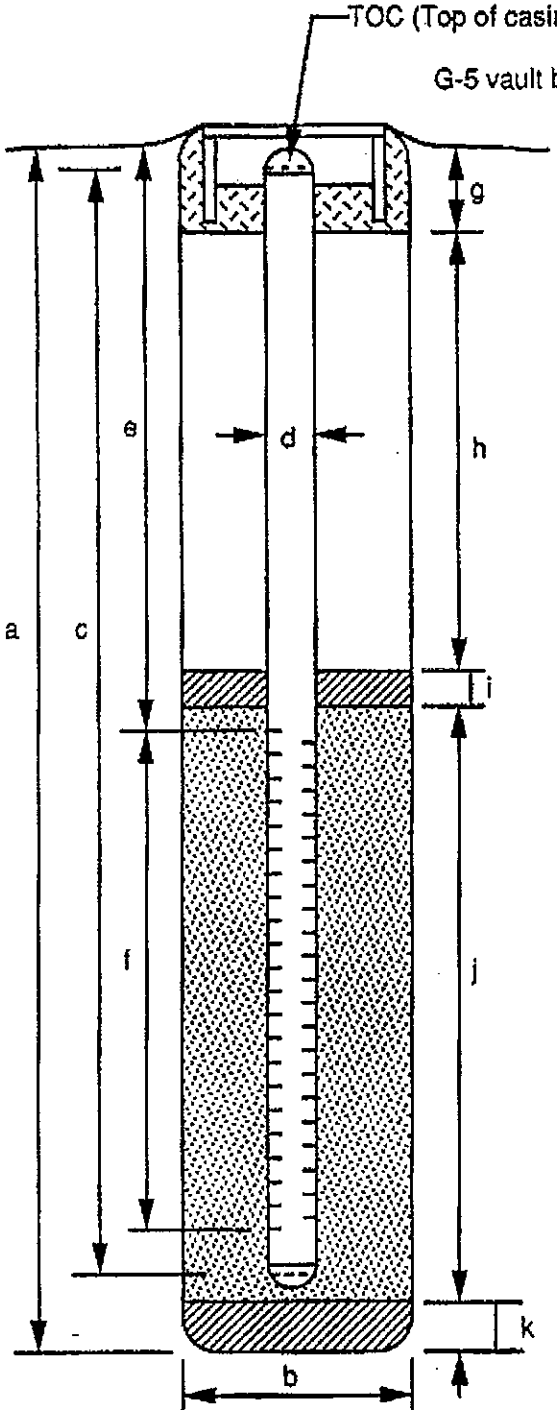
REMARKS

Boring was drilled to 28.5' using 6.5" diameter hollow-stem augers. Soil samples were collected at 5' intervals with a 2" diameter modified California split-spoon sampler for the upper 16.5' of the boring. From 16.5' to 30' soil samples were collected using a 2.5" diameter Moss continuous sampler. A groundwater monitoring well was installed using 2" diameter PVC casing (see attached well detail).

WELL DETAILS

PROJECT NUMBER 1158
PROJECT NAME Chevron SS No. 9-8139
LOCATION 16304 Foothill Boulevard, San Leandro
WELL PERMIT NO. 90281

BORING / WELL NO. MW-5
TOP OF CASING ELEV. 125.85'
GROUND SURFACE ELEV. 126.12'
DATUM MSL
INSTALLATION DATE 5-17-90



EXPLORATORY BORING

a. Total depth 30 ft.
b. Diameter 6.5 in.
Drilling method Hollow-Stem Auger

WELL CONSTRUCTION

c. Total casing length 23.9 ft.
Material Schedule 40 PVC
d. Diameter 2 in.
e. Depth to top perforations 14.3 ft.
f. Perforated length 9.4 ft.
Perforated interval from 14.3 to 23.7 ft.
Perforation type Machine Slotted PVC
Perforation size 0.020 inch
g. Surface seal 1.5 ft.
Material Concrete
h. Backfill 9.5 ft.
Material Bentonite-Cement Grout
i. Seal 2 ft.
Material Bentonite
j. Gravel pack 12.5 ft.
Gravel pack interval from 13 to 25.5 ft.
Material #3 Sand
k. Bottom seal/fill 4.5 ft.
Material Bentonite

Form prepared by DLM

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LOG OF EXPLORATORY BORING

PROJECT NUMBER 1158 — BORING NO. MW-6

PROJECT NAME CHEVRON SERVICE STATION NO. 9-8139 — PAGE 1 OF 2

BY D. Maupin — DATE 5/14/90 — SURFACE ELEV. 124.83 ft.

PID (ppm)	POCKET PENETRO-METER tor/sq ft	BLOW CT. (blws/6")	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-GRAPHIC COLUMN	DESCRIPTION	WELL DETAIL
		NA					ASPHALT. FILL: olive green; low plasticity fines, sand, and gravel. @ 1.5': black (5YR, 2.5/1); low plasticity fines, fine sand, and fine gravel; stiff; damp; slight organic odor.	
		NA						
22.8	2.5	4 8 22 NA		5			SANDY CLAY (CL), very dark grayish brown (10YR, 3/2); 65-75% high plasticity fines; 15-20% fine sand; 10-15% fine gravel; stiff; damp; no product odor.	
		NA					@ 8': dark brown (7.5YR, 3/4); Mn-oxide staining on sand and gravel grains.	
0.0	4.0	11 17 26 NA		10			@ 10': hard; damp; no product odor.	
							@ 11.5': olive brown (2.5Y, 4/4); 50-60% high plasticity fines; 30-40% fine to coarse sand; trace fine gravel; damp; no product odor.	
	1.5	NA						
222	2.5	8 19 32	5-16-90 ▼	15			CLAYEY SAND (SC), dark grayish brown (2.5Y, 4/2); 30-40% moderate to high plasticity fines; 60-70% fine to coarse sand; trace fine gravel; very dense; damp; no product odor.	
0.0	2.8	NA						
		NA					SANDY CLAY (CL), dark yellowish brown (10YR, 3/6); 50-60% high plsticity fines; 25-35% fine to coarse sand; 5-25% fine gravel; stiff; damp; no product odor.	
				20				

REMARKS

Boring was drilled to 30' using 6.5" diameter hollow-stem augers. Soil samples were collected at 5' intervals and from 30' to 34' with a 2" diameter modified California split-spoon sampler. Between 5' intervals, soil samples were collected with a 2.5" diameter Moss continuous sampler. A groundwater monitoring well was installed using 2" diameter PVC casing (see attached well detail).

David C. Tiller RG#4603 Exp: 6/91

LOG OF EXPLORATORY BORING

PROJECT NUMBER 1158 — BORING NO. MW-6

PROJECT NAME CHEVRON SERVICE STATION NO. 9-8139 — PAGE 2 OF 2

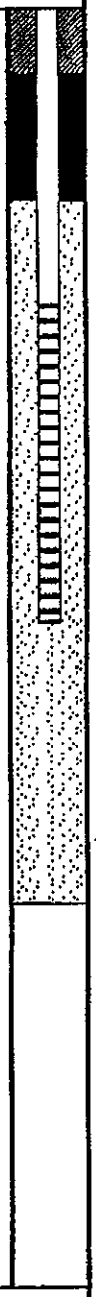
BY D. Maupin — DATE 5/14/90 — SURFACE ELEV. 124.83 ft.

PID (ppm)	POCKET PENETRO-METER ton/sq ft	BLOW CT. (blws/6")	DESCRIPTION
0.0		6 10 21	@ 20': 60-70% high plasticity fines; 30-40% fine to medium sand; very stiff; damp; no product odor.
0.0		NA	@ 21.5': sand grains Mn-oxide stained.
0.0	4.0	NA	CLAYEY SAND (SC), yellowish brown (10YR, 5/8); 25-35% moderate to high plasticity fines; 50-60% fine to coarse sand; trace fine gravel; sand and gravel Mn-oxide stained; dense; damp; no product odor.
0.0		5 15 18 NA	@ 25': dense; moist; no product odor. @ 26.5': 20-30% moderate to high plasticity fines; 50-60% fine to coarse sand; 20-30% fine to medium gravel; Fe- and Mn-oxide staining.
	4.0	NA	
0.0	4.0	7 14 25 NA	SANDY CLAY (CL), dark yellowish brown (10YR, 4/4); 60-70% high plasticity fines; 20-30% fine to coarse sand; 5-10% fine gravel; stiff; damp; no product odor.
	3.0	17 27 33	GRAVELLY CLAY (CL), yellowish brown (10yr, 5/4); 45-55% high plasticity fines; 20-30% fine to coarse sand; 25-30% fine to medium gravel; Fe- and Mn-oxide stained sand and gravel; hard, damp to wet; no product odor. BORING TERMINATED AT 30' AND SAMPLED TO 34'.

GROUND WATER LEVELS: 5-14-90 ▽

DEPTH IN FT.: 25, 30, 35, 40

SAMPLES / LITHOGRAPHIC COLUMN



WELL DETAIL

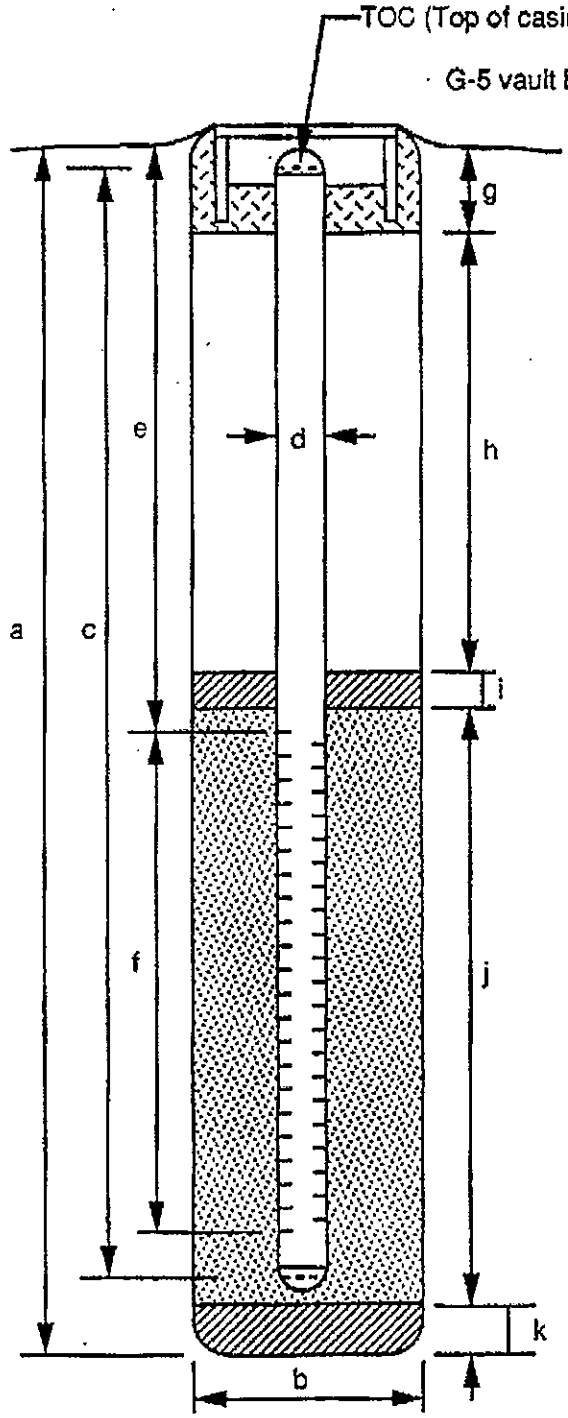
REMARKS

Boring was drilled to 30' using 6.5" diameter hollow-stem augers. Soil samples were collected at 5' intervals and from 30' to 34' with a 2" diameter modified California split-spoon sampler. Between 5' intervals, soil samples were collected with a 2.5" diameter Moss continuous sampler. A groundwater monitoring well was installed using 2" diameter PVC casing (see attached well detail).

WELL DETAILS

PROJECT NUMBER 1158
PROJECT NAME Chevron SS No. 9-8139
LOCATION 16304 Foothill Boulevard, San Leandro
WELL PERMIT NO. 90281

BORING / WELL NO. MW-6
TOP OF CASING ELEV. 124.18'
GROUND SURFACE ELEV. 124.83'
DATUM MSL
INSTALLATION DATE 5-14-90



EXPLORATORY BORING

a. Total depth 34 ft.
b. Diameter 6.5 in.
Drilling method Hollow-Stem Auger

WELL CONSTRUCTION

c. Total casing length 29.2 ft.
Material Schedule 40 PVC
d. Diameter 2 in.
e. Depth to top perforations 24.6 ft.
f. Perforated length 5 ft.
Perforated interval from 24.6 to 29.6 ft.
Perforation type Machine Slotted PVC
Perforation size 0.020 inch
g. Surface seal 1.5 ft.
Material Concrete
h. Backfill 19.5 ft.
Material Bentonite-Cement Grout
i. Seal 2 ft.
Material Bentonite
j. Gravel pack 11 ft.
Gravel pack interval from 23 to 34 ft.
Material #3 Sand
k. Bottom seal/fill -- ft.
Material None

Form prepared by DLM

DCT

LOG OF EXPLORATORY BORING

PROJECT NUMBER 1158 BORING NO. MW-7

PROJECT NAME CHEVRON SERVICE STATION NO. 9-8139 PAGE 1 OF 2

BY D. Maupin DATE 5/15/90 SURFACE ELEV. 127.47 ft.

PID (ppm)	POCKET PENETROMETER ton/sq ft	BLOW CT. (blws/6")	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHOGRAPHIC COLUMN	DESCRIPTION	WELL DETAIL
							ASPHALT. FILL: olive green; low plasticity fines, sand, and gravel.	
1155		18 32 44		5			CLAYEY SAND (SC), dark yellowish brown (10YR, 4/4); 30-40% moderate to high plasticity fines; 60-70% fine to coarse sand; very dense; damp; no product odor.	
339		8 12 15		10			SANDY CLAY (CL), mottled dark yellowish brown (10YR, 4/6) and olive (5Y, 4/4); 50-60% high plasticity fines; 35-45% fine to coarse sand; 5-10% fine gravel; very stiff; damp; no product odor.	
430		7 10 19		15			@ 15': yellowish brown (10YR, 5/4); 50-60% moderate to high plasticity fines; 40-50% fine to coarse sand; trace fine gravel.	
			5-16-90 ▼	20			INTERBEDDED SANDY CLAY AND CLAYEY SAND (CL/SC).	

REMARKS

Boring was drilled to 30' using 6.5" diameter hollow-stem augers. Soil samples were collected to 31.5' using a 2" diameter modified California split-spoon sampler. A groundwater monitoring well was installed using 2" diameter PVC casing (see attached well detail).

David C. Tyler RG#4603 Exp. 6/91

LOG OF EXPLORATORY BORING

PROJECT NUMBER 1158 BORING NO. MW-7

PROJECT NAME CHEVRON SERVICE STATION NO. 9-8139 PAGE 2 OF 2

BY D. Maupin DATE 5/15/90 SURFACE ELEV. 127.47 ft.

PID (ppm)	POCKET PENETRO-METER ton/sq ft	BLOW CT. (blws/6")	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-GRAPHIC COLUMN	DESCRIPTION	WELL DETAIL
114		6 16 17					INTERBEDDED SANDY CLAY AND CLAYEY SAND (CL/SC), dark yellowish brown (10YR, 4/4) to yellowish brown (10YR, 5/8); CL: 50-60% moderate to high plasticity fines; 40-50% fine to coarse sand; trace fine gravel; SC: 30-40% moderate plasticity fines; 60-70% fine to coarse sand; trace fine gravel; very dense; damp; no product odor.	
1.9		10 21 32	▽ 5-15-90	25			CLAYEY SAND (SC), dark yellowish brown (10YR, 3/4); 35-45% moderate to high plasticity fines; 55-65% fine to coarse sand; very dense; damp to wet; no product odor. @ 26.4': SANDY CLAY (CL), dark brown (10YR, 3/3); 60-70% high plasticity fines; 30-40% fine to coarse sand, angular grains, Mn-oxide staining; damp; no product odor.	
4.1		9 18 21		30			CLAYEY SAND (SC), light olive brown (2.5Y, 5/6); 20-30% moderate plasticity fines; 70-80% fine to coarse sand; trace fine gravel; dense; damp; no product odor. BORING TERMINATED AT 30' AND SAMPLED TO 31.5'.	
				35				
				40				

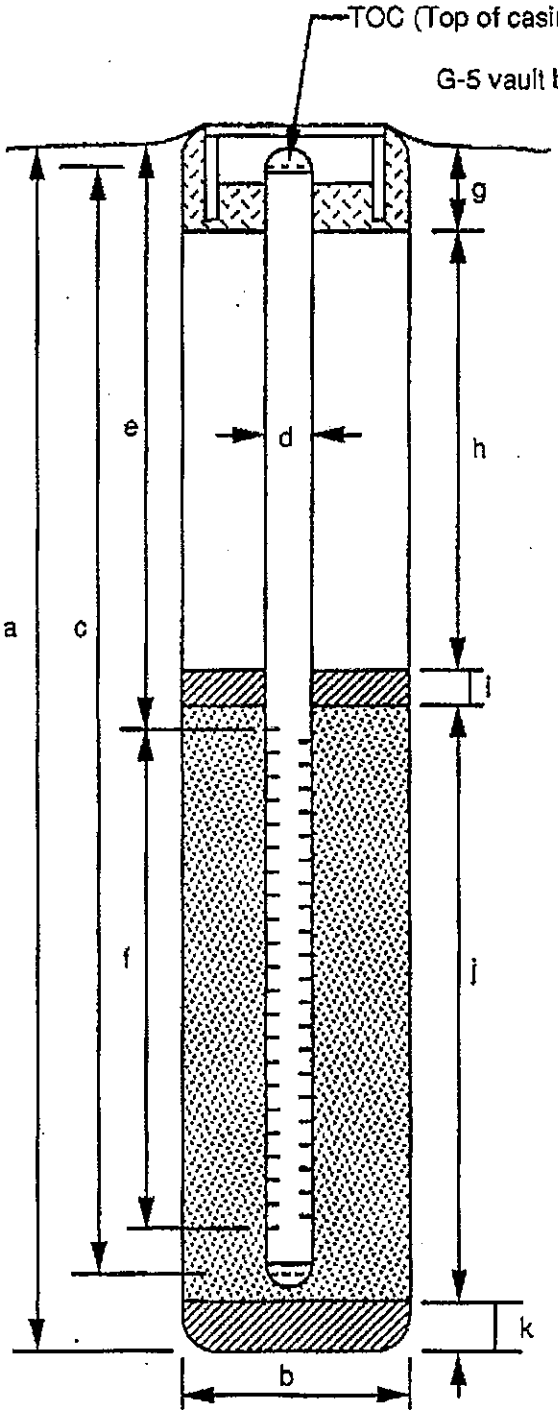
REMARKS

Boring was drilled to 30' using 6.5" diameter hollow-stem augers. Soil samples were collected to 31.5' using a 2" diameter modified California split-spoon sampler. A groundwater monitoring well was installed using 2" diameter PVC casing (see attached well detail).

WELL DETAILS

PROJECT NUMBER 1158
PROJECT NAME Chevron SS No. 9-8139
LOCATION 16304 Foothill Boulevard, San Leandro
WELL PERMIT NO. 90281

BORING / WELL NO. MW-7
TOP OF CASING ELEV. 126.86'
GROUND SURFACE ELEV. 127.47'
DATUM MSL
INSTALLATION DATE 5-15-90



EXPLORATORY BORING

a. Total depth 31.5 ft.
b. Diameter 6.5 in.
Drilling method Hollow-Stem Auger

WELL CONSTRUCTION

c. Total casing length 26 ft.
Material Schedule 40 PVC
d. Diameter 2 in.
e. Depth to top perforations 21.5 ft.
f. Perforated length 5 ft.
Perforated interval from 21.5 to 26.5 ft.
Perforation type Machine Slotted PVC
Perforation size 0.020 inch
g. Surface seal 1.5 ft.
Material Concrete
h. Backfill 17 ft.
Material Bentonite-Cement Grout
i. Seal 2 ft.
Material Bentonite
j. Gravel pack 6.5 ft.
Gravel pack interval from 20.5 to 27 ft.
Material #3 Sand
k. Bottom seal/fill 4.5 ft.
Material Bentonite

Form prepared by DLM

DcT

LOG OF EXPLORATORY BORING

PROJECT NUMBER 1158 — BORING NO. E-1

PROJECT NAME CHEVRON SERVICE STATION NO. 9-8139 — PAGE 1 OF 2

BY D. Maupin — DATE 5/17/90 — SURFACE ELEV. 127.29 ft.

PID (ppm)	POCKET PENETRO-METER ton/sq ft	BLOW CT. (blws/6")	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-GRAPHIC COLUMN	DESCRIPTION	WELL DETAIL
							ASPHALT.	
							FILL.	
54.8	3.2	NA					**CLAYEY SAND (SC)**, dark yellowish brown (10YR, 4/4); 40-50% moderate to high plasticity fines; 50-60% fine to coarse sand; trace fine gravel; worm borrows upper 4-8"; medium dense; damp; no product odor.	
21.7	3.2	NA		5			@ 5': 25-35% moderate to high plasticity fines; 50-60% fine to coarse sand; 10-20% fine gravel.	
47.6		NA					@ 6.5': thin lenses of high plasticity fines; some highly altered sandstone gravel.	
	1.3	NA					@ 8': dark yellowish brown (10YR, 3/6); 35-45% moderate to high plasticity fines; 55-65% fine to coarse sand; trace Mn-oxide stained fine gravel; damp; weak product odor.	
39.6	2.3	NA		10			@ 10': olive brown (2.5Y, 4/4); 25-35% moderate to high plasticity fines; 65-75% fine to coarse sand, subangular to subrounded; trace fine to medium gravel; organic odor.	
	3.5	NA					**SANDY CLAY (CL)**, mottled olive (5Y, 4/3) and dark yellowish brown (10YR, 4/6); 55-65% high plasticity fines; 25-35% fine to medium sand; 10-15% fine gravel; very stiff; damp; no product odor.	
	3.5	NA					@ 13': moderate product odor.	
405	2.2	NA		15			**CLAYEY SAND (SC)**, dark yellowish brown (10YR, 4/4); 20-30% moderate to high plasticity fines; 60-70% fine to coarse sand; 5-15% fine to coarse gravel; medium dense; damp; moderate to strong product odor.	
	1.5	NA	5-21-90 ▼					
295	3.0	NA	5-16-90 ▽				**GRAVELLY SAND (SP)**, light olive brown (2.5Y, 5/4); 10-20% moderate plasticity fines; 40-50% fine to coarse sand; 30-40% fine to coarse	
				20				

REMARKS

Boring was drilled to 31.5' using 6.5" diameter hollow-stem augers. Soil samples were collected from 3.5' to 31.5' using a 2.5" diameter Moss continuous sampler. Boring was redrilled with 12.25" diameter hollow-stem augers. A groundwater extraction well was installed using 6" diameter PVC casing (see attached well detail).

David C. Tiffault RG#4603 Exp Date: 6/91

LOG OF EXPLORATORY BORING

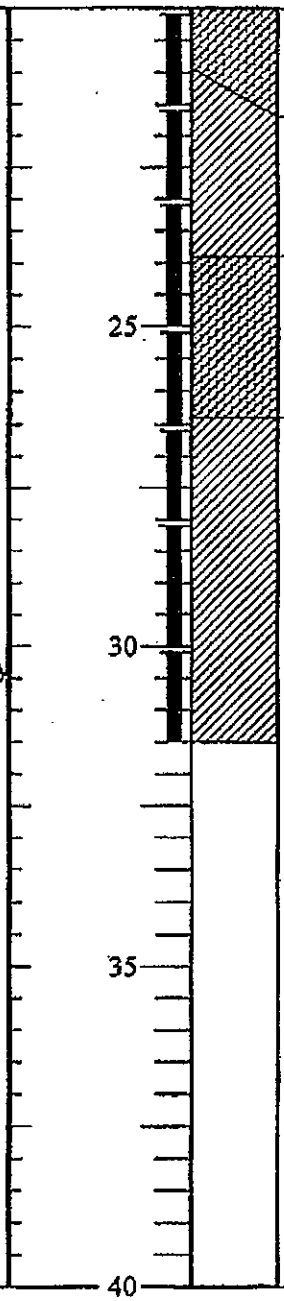
PROJECT NUMBER 1158 — BORING NO. E-1

PROJECT NAME CHEVRON SERVICE STATION NO. 9-8139 — PAGE 2 OF 2

BY D. Maupin — DATE 5/17/90 — SURFACE ELEV. 127.29 ft.

PID (ppm)	POCKET PENETRO-METER ton/sq ft	BLOW CT. (blws/6")	DESCRIPTION
61.5	1.1	NA	gravel, one quartz clast >2" diameter; medium dense; damp to moist; moderate to strong product odor.
	4.1	NA	@ 17.5': graded to dark olive gray (5Y, 3/2); wet; strong product odor.
352	2.8	NA	CLAYEY SAND (SC), abundant olive mottling; trace medium gravel; strong product odor.
18.2	0.5	NA	@ 20': yellowish brown (10YR, 5/6); 25-35% moderate to high plasticity fines; 60-70% fine to coarse sand; 5-10% fine gravel; medium dense; damp to wet; no product odor.
5.0	2.4	NA	SANDY CLAY (CL), yellowish brown (10YR, 5/6); 55-65% high plasticity fines; 30-40% fine to coarse sand; 5-10% fine gravel; very stiff to hard; moist; weak product odor.
5.1	2.5	NA	CLAYEY SAND (SC), dark yellowish brown (10YR, 4/6); 25-35% moderate to high plasticity fines; 50-60% fine to coarse sand; 10-15% fine gravel, angular; loose; damp; weak product odor.
	No	Recovery	@ 25': 10-20% low to moderate plasticity fines; 60-70% fine to coarse sand; 10-20% fine gravel; moist to wet; no product odor.
			SANDY CLAY (CL), dark yellowish brown (10YR, 4/4); 55-65% high plasticity fines; 35-45% fine to coarse sand, rounded; trace fine gravel; very stiff; damp; no product odor.
			@ 29': sandy lense; 50-60% high plasticity fines; 40-50% fine to coarse sand; trace fine gravel.
			TERMINATED BORING AT 30' AND SAMPLED TO 31.5'.

GROUND WATER LEVELS | DEPTH IN FT. | SAMPLES | LITHO-GRAPHIC COLUMN | WELL DETAIL



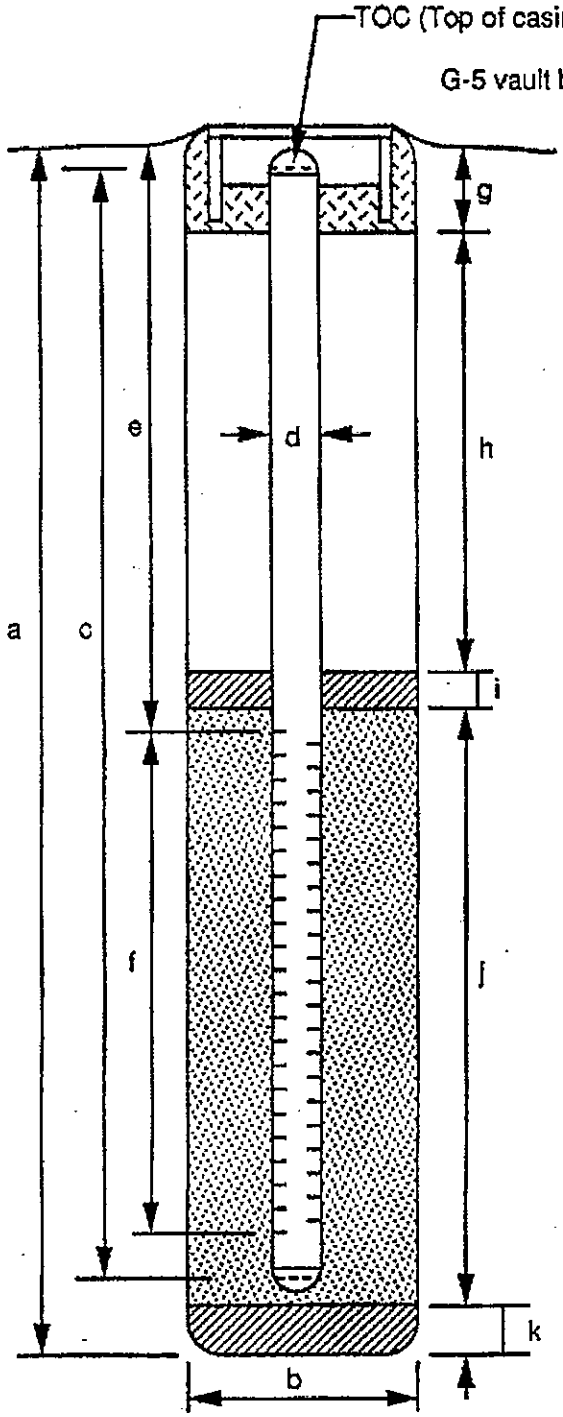
REMARKS

Boring was drilled to 31.5' using 6.5" diameter hollow-stem augers. Soil samples were collected from 3.5' to 31.5' using a 2.5" diameter Moss continuous sampler. Boring was redrilled with 12.25" diameter hollow-stem augers. A groundwater extraction well was installed using 6" diameter PVC casing (see attached well detail).

WELL DETAILS

PROJECT NUMBER 1158
PROJECT NAME Chevron SS No. 9-8139
LOCATION 16304 Foothill Boulevard, San Leandro
WELL PERMIT NO. 90281

BORING / WELL NO. E-1
TOP OF CASING ELEV. 124.95'
GROUND SURFACE ELEV. 127.29'
DATUM MSL
INSTALLATION DATE 5-17-90



EXPLORATORY BORING

a. Total depth 31.5 ft.
b. Diameter 12.25 in.
Drilling method Hollow-Stem Auger

WELL CONSTRUCTION

c. Total casing length * 27.9 ft.
Material Schedule 40 PVC
d. Diameter 6 in.
e. Depth to top perforations 18.1 ft.
f. Perforated length 8.4 ft.
Perforated interval from 18.1 to 26.5 ft.
Perforation type Machine Slotted PVC
Perforation size 0.020 inch
g. Surface seal 1.5 ft.
Material Concrete
h. Backfill 13.5 ft.
Material Bentonite-Cement Grout
i. Seal 2 ft.
Material Bentonite
j. Gravel pack 10 ft.
Gravel pack interval from 17 to 27 ft.
Material #3 Sand
k. Bottom seal/fill 4.5 ft.
Material Bentonite around PVC Sediment Sump *

* 3-foot sediment sump installed below the screened section (26.5 to 29.4 feet BGL).

Form prepared by DLM

DCT

LOG OF EXPLORATORY BORING

PROJECT NUMBER 1158 BORING NO. MW-8

PROJECT NAME CHEVRON SERVICE STATION NO. 9-8139 PAGE 1 OF 2

BY D. Maupin DATE 8/30/90 SURFACE ELEV. 124.25 ft.

PID (ppm)	POCKET PENETRO-METER ton/sq ft	BLOW CT. (blws/6")	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-GRAPHIC COLUMN	DESCRIPTION	WELL DETAIL
							FILL DIRT.	
13.8		7 14 19		5			CLAYEY SAND (SC), dark yellowish brown (10YR, 4/6); 30-40% moderate plasticity fines; 45-55% fine to coarse sand, angular; 5-15% fine gravel, angular; dense; damp; no product odor.	
							@ 8.2-8.5': medium to coarse gravel lense.	
26.1		7 10 17		10			@ 10': 40-50% moderate plasticity fines; 50-60% fine to coarse sand, angular; trace gravel, angular. @ 12': 35-45% moderate plasticity fines; 5-10% fine gravel, subangular; some sand and gravel grains Fe- and Mn-oxide stained. @ 13': yellowish brown (10YR, 5/6); 35-45% low to moderate plasticity fines; 45-55% fine to coarse sand, angular; 5-15% fine to medium gravel, subangular; sand and gravel Fe- and Mn-oxide stained; some vertical plant rootlets.	
13.2		11 14 18	8-30-90	15			@ 15.2': 1"x 2" siliceous gravel clast; dense. @ 15.4': 30-40% moderate plasticity fines; 15-25% fine to medium gravel, subangular.	
							@ 18': sand and gravel moderately Fe- and Mn-oxide stained.	
				20				

REMARKS

Boring was drilled to 32.5' using 8" diameter hollow-stem augers. Soil samples were collected at 5' intervals and from 32.5' to 34' using a 2" diameter modified California split-spoon sampler. From 6.5' to 32.5' the boring was continuously sampled between 5' intervals using a 2.5" diameter Moss sampler and a 1.5" diameter Std. Penetration sampler. A groundwater monitoring well was installed using 2" diameter PVC casing (see attached well detail).

David C. Tiglet RG#4603 Exp. 6/91

LOG OF EXPLORATORY BORING

PROJECT NUMBER 1158 BORING NO. MW-8

PROJECT NAME CHEVRON SERVICE STATION NO. 9-8139 PAGE 2 OF 2

BY D. Maupin DATE 8/30/90 SURFACE ELEV. 124.25 ft.

PID (ppm)	POCKET PENETRO-METER ton/sq ft	BLOW CT. (blws/6")	DESCRIPTION
17.3		3 6 10	CLAYEY SAND (SC), continued. @ 20.1-22': 40-50% high plasticity fines; 45-55% dominantly fine to coarse sand, angular; 5-10% fine gravel; damp to moist; medium dense. @ 22.3': some caliche nodules and stringers. @ 24': 30-40% high plasticity fines; 50-60% fine to coarse sand, angular; 10-20% fine gravel, subangular to subrounded; sand and gravel low to moderate Fe- and Mn-oxide stained; moist; no product odor.
			8-30-90 ▽
13.7		4 5 7	@ 25': wet. @ 26': SANDY CLAY (CL), strong brown (7.5yr, 4/6); 50-60% high plasticity fines; 40-50% fine to coarse sand, dominantly fine to medium; trace fine gravel; stiff; moist to wet; no product odor. @ 28.5': SILTY SAND (SM), dark yellowish brown (10YR, 4/4); 35-45% low to moderate plasticity fines; 55-65% fine to coarse sand, dominantly fine to medium; trace gravel; damp to moist; no product odor.
11.2		8 12 16	@ 31': CLAYEY SAND (SC), yellowish brown (10YR, 5/8); 20-30% moderate to high plasticity fines; 60-70% fine to coarse sand; 5-15% fine gravel; wet; dense; no product odor. @ 32': damp; no product odor.
0		9 18 22	BORING TERMINATED AT 32.5' AND SAMPLED TO 34'.

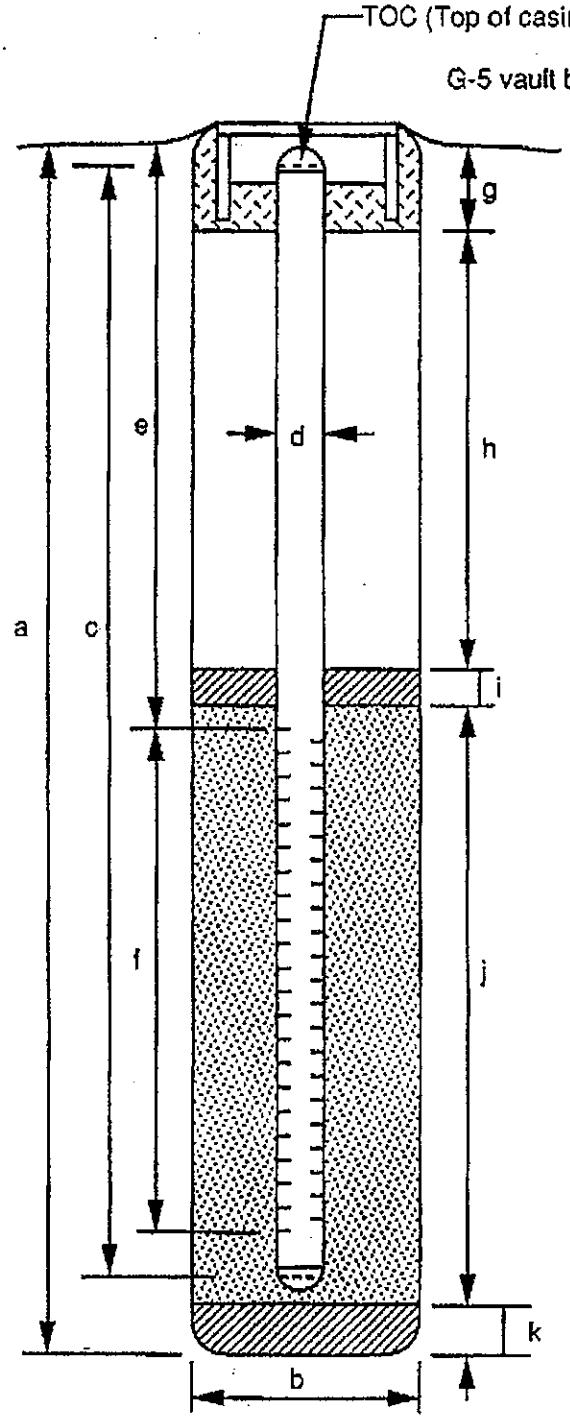
REMARKS

Boring was drilled to 32.5' using 8" diameter hollow-stem augers. Soil samples were collected at 5' intervals and from 32.5' to 34' using a 2" diameter modified California split-spoon sampler. From 6.5' to 32.5' the boring was continuously sampled between 5' intervals using a 2.5" diameter Moss sampler and a 1.5" diameter Std. Penetration sampler. A groundwater monitoring well was installed using 2" diameter PVC casing (see attached well detail).

WELL DETAILS

PROJECT NUMBER 1158
PROJECT NAME Chevron SS No. 9-8139
LOCATION 16304 Foothill Boulevard, San Leandro
WELL PERMIT NO. 90519

BORING / WELL NO. MW-8
TOP OF CASING ELEV. 123.61'
GROUND SURFACE ELEV. 124.25'
DATUM MSL
INSTALLATION DATE 8-30-90



EXPLORATORY BORING

a. Total depth 34 ft.
b. Diameter 8 in.
Drilling method Hollow-Stem Auger

WELL CONSTRUCTION

c. Total casing length 31 ft.
Material Schedule 40 PVC
d. Diameter 2 in.
e. Depth to top perforations 21.5 ft.
f. Perforated length 9 ft.
Perforated interval from 21.5 to 30.5 ft.
Perforation type Machine Slotted PVC
Perforation size 0.020 inch
g. Surface seal 1 ft.
Material Concrete
h. Backfill 16.5 ft.
Material Bentonite-Cement Grout
i. Seal 3 ft.
Material Bentonite
j. Gravel pack 11 ft.
Gravel pack interval from 20.5 to 31.5 ft.
Material #3 Sand
k. Bottom seal/fill 2.5 ft.
Material Bentonite

Form prepared by DLM

DCT

BORING LOG

PROJ. No.: CHV-149/306
PROJ. NAME: Chevron Service Station No. 9-8139
16304 Foothill Boulevard, San Leandro, CA
DRAWING No. : A1030603 PAGE: 1 OF 2

MONITORING WELL MW-9
TOP OF CASING : 124.20Ft.(MSL)
TOTAL BORING DEPTH 27Ft.
BY: KSF DATE: 6/11/91

Pocket Pene-trometer TSF	Recovery (in./in.)	Blow Count (blows /6")	Sample Depth (feet)	Well Detail	Strati-graphic Column	Description
			0		FILL	**SILTY CLAY, FILL,** brown, silty clay, with sand, gravel, and cobbles.
					CL	**SILTY CLAY (CL),** dark brown (7.5Y, 3/3); 80–90% low plasticity fines; 10–20% very fine to coarse sand; hard; trace limonite nodules; slightly moist; no product odor.
>4.5	18/18	2 8 13	5			
2.2	18/18	4 4 9	10			●10Ft: dark yellowish brown (10Y, 3/4), stiff.
3.0 >4.5	18/18	4 8 9	15			●15Ft: 70–80% low plasticity fines; 20–30% fine to very coarse sand; trace fine gravel; very stiff; dry; slight product odor. ●16Ft: 75–85% low plasticity fines; 10–20% very fine to coarse sand; 0–5% fine gravel; hard; dry; no product odor.
					SC	
			20			

NOTES: Boring was drilled with 8" outside diameter hollow-stem augers. Soil samples were collected at 5ft intervals using a 2" diameter modified-California split-spoon sampler with brass liners. A groundwater monitoring well was installed using 2" diameter sch 40 PVC and 0.010" machine slotted PVC screen.

David K. Gill RG#4603, Exp 6/30/92

BORING LOG

PROJ. No.: CHV-149/306
PROJ. NAME: Chevron Service Station No. 9-8139
16304 Foothill Boulevard, San Leandro, CA
DRAWING No. : A1030604 PAGE: 2 OF 2

MONITORING WELL MW-9
TOP OF CASING : 124.20Ft(MSL)
TOTAL BORING DEPTH 27Ft.
BY: KSF DATE: 6/11/91

Pocket Pene-trometer TSF	Recovery (in./in.)	Blow Count (blows /6")	Sample Depth (feet)	Well Detail	Strati-graphic Column	Description
		5	20		SC	
3.5	18/18	13				SANDY CLAY (SC), Dark yellowish brown (10YR, 3/4); 60-70% low plasticity fines; 30-40% fine to very coarse sand, trace fine gravel; stiff; limonite nodules; caliche deposits; wet; no product odor.
		18				
					CL	SILTY CLAY (CL), dark yellowish brown (10Y, 3/4), 85-95% low plasticity fines; 5-15% very fine to fine sand; trace limonite nodules; trace Fe-oxide staining; stiff; slightly moist; no product odor.
		2	25			
1.5	18/18	4				
		6				BORING TERMINATED AT 27.0 FEET
			30			
			35			
			40			

NOTES: Boring was drilled with 8" outside diameter hollow-stem augers. Soil samples were collected at 5ft intervals using a 2" diameter modified-California split-spoon sampler with brass liners. A groundwater monitoring well was installed using 2" diameter sch 40 PVC and 0.010" machine slotted PVC screen.

WELL DETAILS

BURLINGTON ENVIRONMENTAL, INC. CHEMPET, Division

PROJECT No. CHV-149/306 Drawing No. : A1030607

PROJECT NAME: Chevron Service Station No. 9-8139

LOCATION 16304 Foothill Boulevard San Leandro, Ca

WELL PERMIT No. 91134

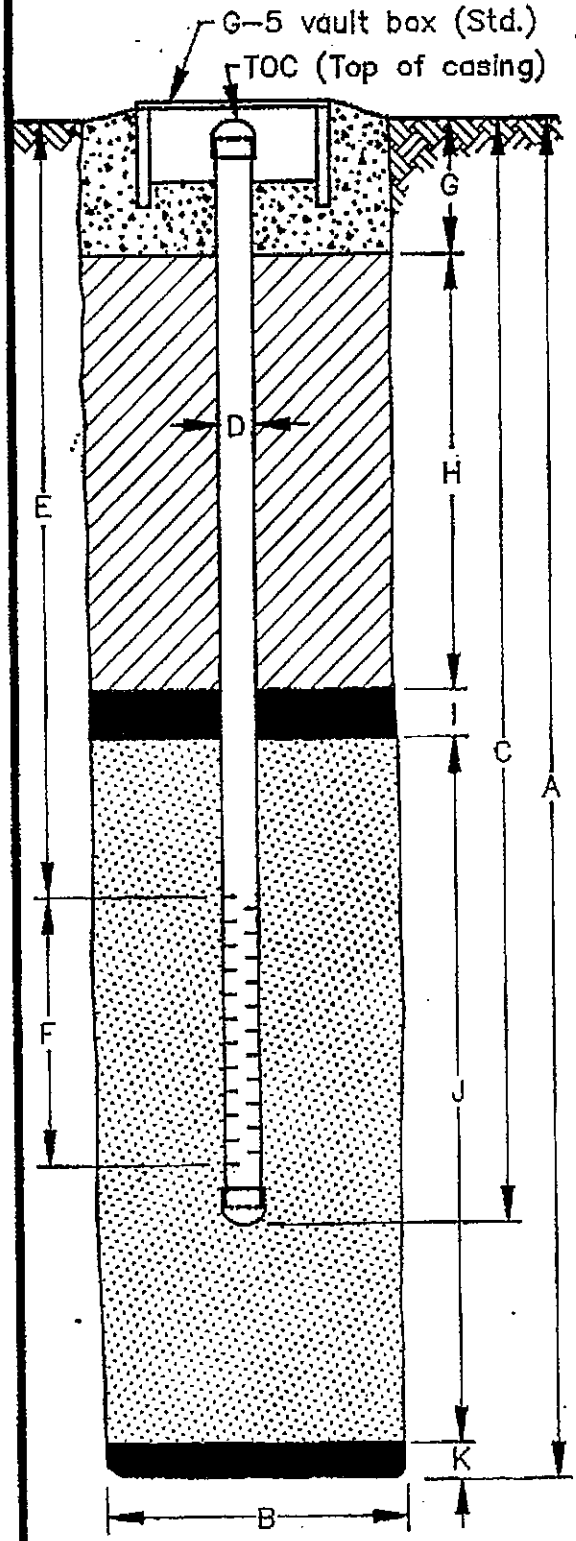
BORING/WELL No. MW-9

TOP OF CASING ELEVATION 124.20Ft.

GROUND SURFACE ELEVATION 124.51Ft.

DATUM MSL

INSTALLATION DATE 6/11/91



EXPLORATORY BORING

A. Total depth 27 ft.

B. Diameter 8 in.

Drilling method 8" HSA

WELL CONSTRUCTION

C. Total casing length 26.5 ft.

Material SCH 40 PVC

D. Diameter 2 in.

E. Depth to top of perforations 17 ft.

F. Perforated length 10 ft.

Perforated interval from 17 to 27 ft.

Perforation type MACHINE-SLOTTED

Perforation size 0.010 INCH

G. Surface seal 1 ft.

Seal material CONCRETE

H. Backfill 12 ft.

Backfill material CEMENT-BENTONITE GROUT

I. Seal 2 ft.

Seal material BENTONITE PELLETS

J. Gravel pack 12 ft.

Pack material No. 2/12 SAND

K. Bottom seal/fill — ft.

Material —

Form prepared by KSF

BORING LOG

PROJ. No.: CHV-149/306
PROJ. NAME: Chevron Service Station No. 9-8139
16304 Foothill Boulevard, San Leandro, CA
DRAWING No. : A1030601 PAGE: 1 OF 1

EXTRACTION WELL E-2
TOP OF CASING : 125.79Ft.(MSL)
TOTAL BORING DEPTH 30.5Ft.
BY: KSF DATE: 6/10/91

Pocket Pene-trometer TSF	Recovery (in./in.)	Blow Count (blows /6")	Sample Depth (feet)	Well Detail	Strati-graphic Column	Description
			0			FOR LITHOLOGIC DETAILS SEE BORING LOG FOR MONITORING WELL MW-5
			10			
			20			
			30			
			40			

NOTES: Monitoring well Mw-5 was decommissioned with 8" diameter hollow-stem augers to 30ft. Boring was reamed with 10" diameter hollow-stem augers to 30.5ft. A groundwater extraction well was installed using 4" diameter sch 40 PVC and 0.010" machine slotted PVC screen.

RG#4603
exp: 6/30/92

WELL DETAILS

BURLINGTON ENVIRONMENTAL, INC. CHEMTRAC Division

PROJECT No. CHV-149/306 — Drawing No. : A1030608

PROJECT NAME: Chevron Service Station No. 9-8139

LOCATION 16304 Foothill Boulevard, San Leandro, Ca

WELL PERMIT No. 91134

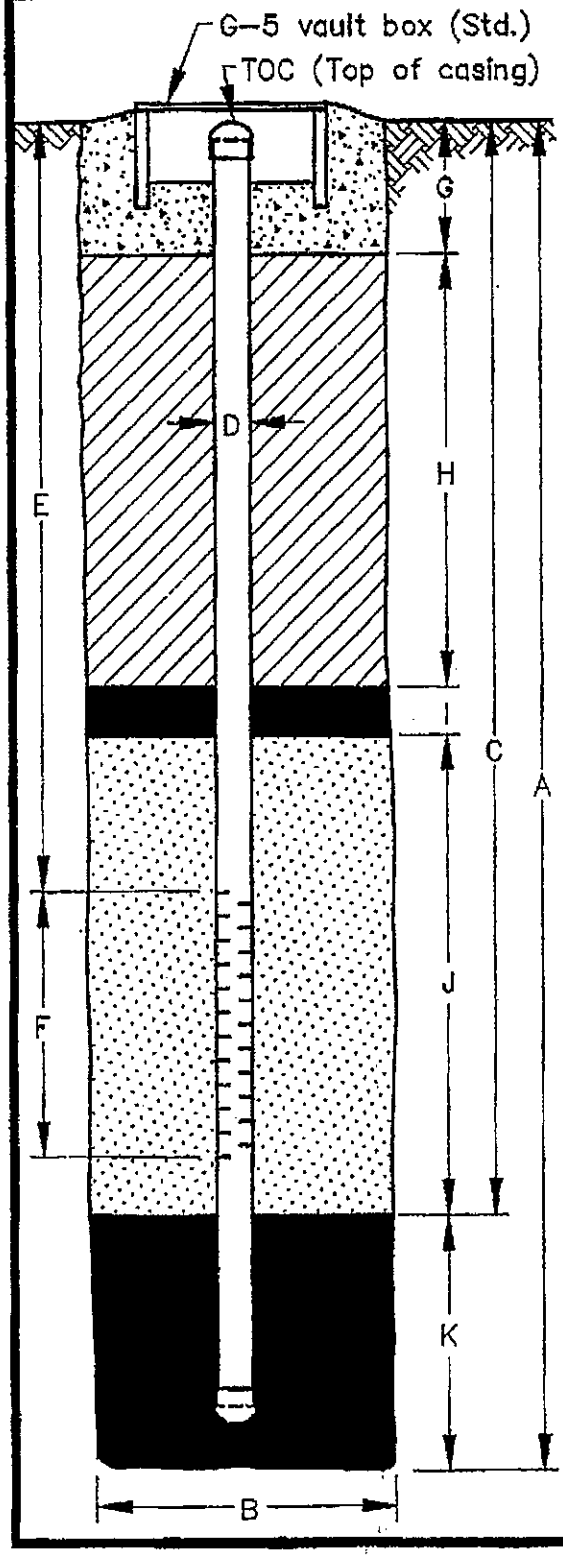
BORING/WELL No. E-2

TOP OF CASING ELEVATION 125.79Ft

GROUND SURFACE ELEVATION 126.15Ft.

DATUM MSL

INSTALLATION DATE 6/10/91



EXPLORATORY BORING

A. Total depth 30.5 ft.

B. Diameter 10 in.

Drilling method 8"ø+10"ø HSA

WELL CONSTRUCTION

C. Total casing length 30 ft.

Material SCH 40 PVC

D. Diameter 4 in.

E. Depth to top of perforations 15 ft.

F. Perforated length 10 ft.

Perforated interval from 15 to 25 ft.

Perforation type MACHINE--SLOTTED

Perforation size 0.010 INCH

G. Surface seal 1.5 ft.

Seal material CONCRETE

H. Backfill 9.5 ft.

Backfill material CEMENT--BENTONITE GROUT

I. Seal 2 ft.

Seal material BENTONITE PELLETS

J. Gravel pack 13 ft.

Pack material No. 2/12 SAND

K. Bottom seal/fill 4.5 ft.

Material HOLE PLUG

Form prepared by KSF

BORING LOG

PROJ. No.: CHV-149/306
PROJ. NAME: Chevron Service Station No. 9-8139
16394 Foothill Boulevard, San Leandro, CA
DRAWING No. :A1030602 PAGE: 1 OF 1

EXTRACTION WELL E-3
TOP OF CASING : 125.22Ft.(MSL)
TOTAL BORING DEPTH 30.5Ft.
BY: KSF DATE: 6/10/91

Pocket Pene-trometer TSF	Recovery (in./in.)	Blow Count (blows /6")	Sample Depth (feet)	Well Detail	Stratl-graphic Column	Description
			0			FOR LITHOLOGIC DETAILS SEE BORING LOG FOR MONITORING WELL MW-4
			10			
			20			
			30			
			40			

NOTES: Monitoring well Mw-5 was decommissioned with 8" diameter hollow-stem augers to 30ft. Boring was reamed with 10" diameter hollow-stem augers to 30.5ft. A groundwater extraction well was installed using 4" diameter sch 40 PVC and 0.010" machine slotted PVC screen.

Exp: 6/30/92

WELL DETAILS

BURLINGTON ENVIRONMENTAL, INC.
CHEMPET, Division

PROJECT No. CHV-149/306 Drawing No. : A1030609

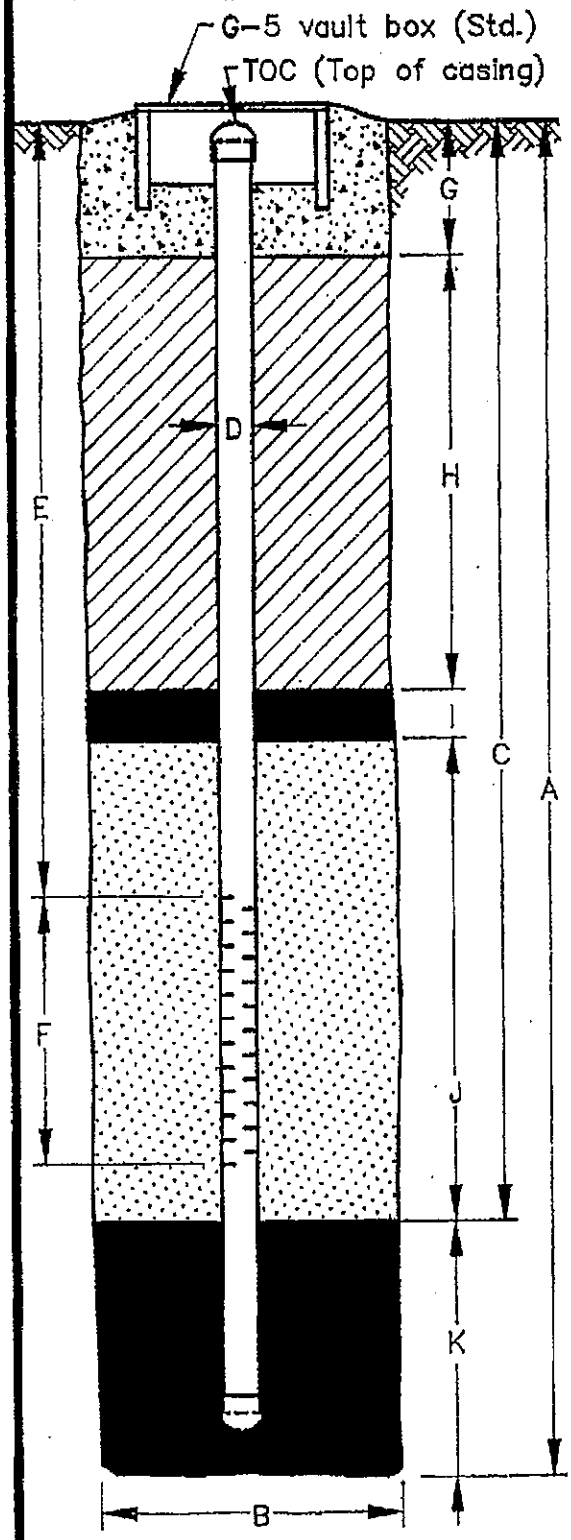
PROJECT NAME: BORING/WELL No. E-3

Chevron Service Station No. 9-8139 TOP OF CASING ELEVATION 125.22Ft.

LOCATION 16304 Foothill Boulevard GROUND SURFACE ELEVATION 125.53Ft.

San Leandro, Ca DATUM MSL

WELL PERMIT No. 91133/91134 INSTALLATION DATE 6/10/91



EXPLORATORY BORING

A. Total depth 30.5 ft.
B. Diameter 10 in.
Drilling method 8"ø+10"ø HSA

WELL CONSTRUCTION

C. Total casing length 30 ft.
Material SCH 40 PVC
D. Diameter 4" in.
E. Depth to top of perforations 15 ft.
F. Perforated length 10 ft.
Perforated interval from 15 to 25 ft.
Perforation type MACHINE-SLOTTED
Perforation size 0.010 INCH
G. Surface seal 1.5 ft.
Seal material CONCRETE
H. Backfill 9.5 ft.
Backfill material CEMENT-BENTONITE GROUT
I. Seal 2 ft.
Seal material BENTONITE PELLETS
J. Gravel pack 13 ft.
Pack material No. 2/12 SAND
K. Bottom seal/fill 4.5 ft.
Material HOLE PLUG

Form prepared by KSF

BORING LOG

Project Number: CHV-149
Chevron Service Station No. 9-8139
16304 Foothill Boulevard, San Leandro, CA
Drawing No.: A1036601 Page: 1 of 2

Monitoring WELL No.: MW-10
Ground Surface Elev.: Approx. 125.5 ft.(MSL)
Total Boring Depth: 30 ft.
By: K. FLORY Date: 4/21/92

Pocket penetrometer TSF	Recovery (in/in)	Blow Count (blows/6")	Sample Depth (feet)	Well Detail	Stratigraphic Column	Description
			0		AS / CONC / FILL	5" ASPHALT 7" CONCRETE 4" BASE COARSE
					CL	SANDY CLAY (CL), Dark brown (7.5 YR, 3/3); 70-80% low plasticity fines; 20-30% very fine to fine sand; hard; dry.
4.5	18/18	5 12 22	5			
						@ 13': 50-60% low plasticity fines; 30-40% very fine to coarse sand; 10% gravel: hard, moist.
4.5	18/18	5 6 10	10			
						@ 15': 80-90% low plasticity fines; 10-20% very fine sand; very stiff.
2.0	18/18	5 8 8	15			
			20			

NOTES: Boring was drilled using eight-inch outside diameter (OD) hollow-stem augers. Soil samples were collected using a two-inch OD split-spoon sampler at five foot intervals. A groundwater monitoring well was installed using two-inch diameter PVC casing (see attached well detail).

BORING LOG

Project Number: CHV-149
Chevron Service Station No. 9-8139
16304 Foothill Boulevard, San Leandro, CA
Drawing No.: A1036602 Page: 2 of 2

Monitoring WELL No.: MW-10
Ground Surface Elev.: Approx. 125.5 ft.(MSL)
Total Boring Depth: 30 ft.
By: K. FLORY Date: 4/21/92

Pocket penetrometer TSF	Recovery (in/in)	Blow Count (blows/6")	Sample Depth (feet)	Well Detail	Stratigraphic Column	Description
–	3/18	8 18 23	20		CL	**SANDY CLAY (CL),** Continued ● 20': Cobble in tip of spoon; little recovery; wet.
2.25	18/18	6 7 11	25			● 25': 60–70% low plasticity fines; 20–30% very fine to coarse sand; 10% fine gravel; very stiff; moist.
2.5	18/18	8 12 15	30			BORING TERMINATED AT 30'
			35			
			40			

NOTES: Boring was drilled using eight-inch outside diameter (OD) hollow-stem augers. Soil samples were collected using a two-inch OD split-spoon sampler at five foot intervals. A groundwater monitoring well was installed using two-inch diameter PVC casing (see attached well detail).

David C. Tyler RG#4603 · Exp. 6/30/94

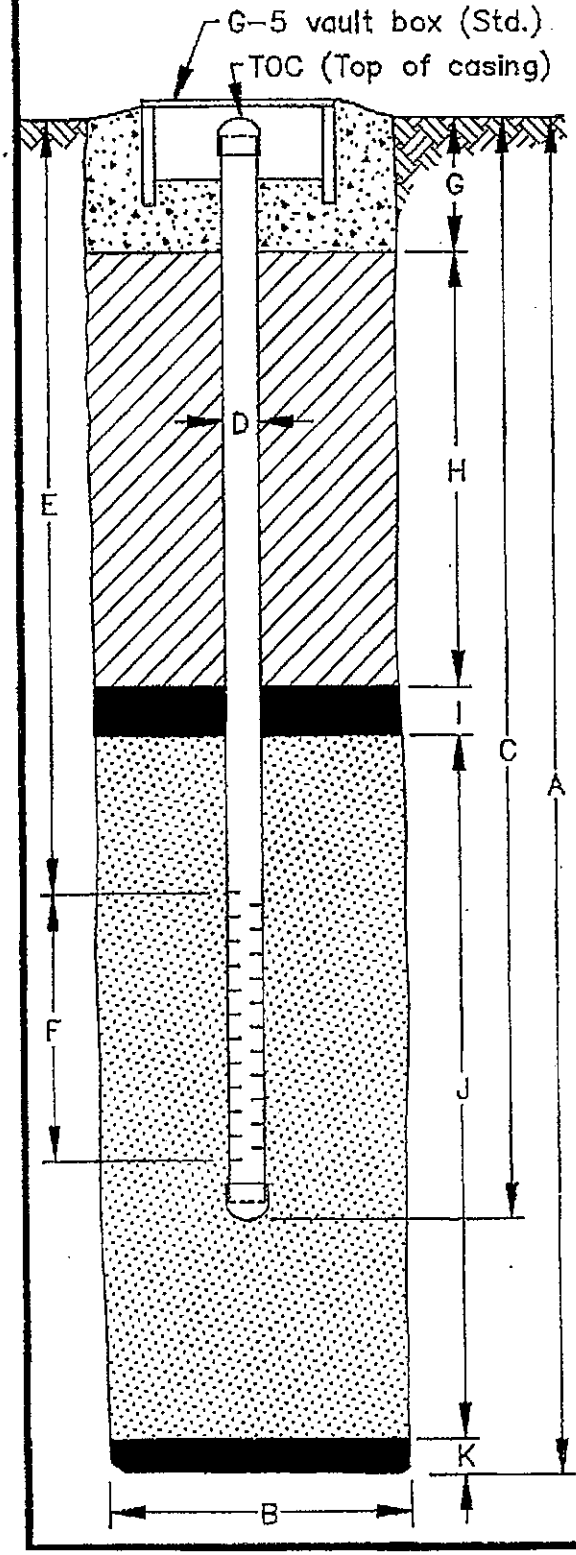
WELL DETAILS

BURLINGTON ENVIRONMENTAL, INC.

Project Number: CHV-149
Chevron Service Station No. 9-8139
16304 Foothill Boulevard, San Leandro, CA
Drawing No.: A1036605

WELL No.: MW-10
Top of Casing Elev.: 125.03 FT (MSL)
Ground Surface Elev.: APPROX. 125.5ft.(MSL)
Installation Date: 4/21/92

Well Permit No.: 92124



EXPLORATORY BORING

A. Total depth: 30 ft.
B. Diameter: 8 in.
Drilling method: 8"ø HSA

WELL CONSTRUCTION

C. Total casing length: 29.5 ft.
Material: SCH 40 PVC
D. Diameter: 2 In.
E. Depth to top of perforations: 14.5 ft.
F. Perforated length: 15 ft.
Perforated interval from 14.5 to 29.5 ft.
Perforation type: MACHINE-SLOTTED
Perforation size: 0.010 INCH
G. Surface seal: 2 ft.
Seal material: CONCRETE
H. Backfill: 7 ft.
Backfill material: CEMENT-BENTONITE GROUT
I. Seal: 3 ft.
Seal material: BENTONITE-PELLETS
J. Gravel pack: 18 ft.
Pack material: 2/12 SAND
K. Bottom seal/fill: - ft.
Material: N/A

DeF

Form prepared by K. FLORY

BORING LOG

Project Number: CHV-149
Chevron Service Station No. 9-8139
16304 Foothill Boulevard, San Leandro, CA
Drawing No.: A1036603 Page: 1 of 2

Monitoring WELL No.: MW-11
Ground Surface Elev.: Approx. 123.4 ft.(MSL)
Total Boring Depth: 30 ft.
By: K. FLORY Date: 4/21/92

Pocket penetrometer TSF	Recovery (in/in)	Blow Count (blows /6")	Sample Depth (feet)	Well Detail	Stratigraphic Column	Description
2.2	–	–	0		CL	**SILTY CLAY (CL)**, Very dark brown (10 YR, 2/2); 85–95% high plasticity fines; 5–15% very fine to fine sand; trace fine gravel; very stiff; slightly moist.
4.0	18/18	10 11 22	5			@ 5': Hard.
3.5	18/18	5 10 13	10		CL	**SANDY CLAY (CL)**, Dark yellowish brown (10 YR, 4/4); 50–60% low plasticity fines; 30–40% fine to coarse sand; 10–20% fine gravel; very stiff; slightly moist.
0.5	18/18	7 12 14	15			@ 15': Dark brown (10 YR, 4/3); 65–75% low plasticity fines; 20–30% fine to coarse sand; 5% fine gravel; soft; slightly moist.
			20			

NOTES: Boring was drilled using eight-inch outside diameter (OD) hollow-stem augers. Soil samples were collected using a two-inch OD split-spoon sampler at five foot intervals. A groundwater monitoring well was installed using two-inch diameter PVC casing (see attached well detail).

BORING LOG

Project Number: CHV-149
Chevron Service Station No. 9-8139
16304 Foothill Boulevard, San Leandro, CA
Drawing No.: A1036604 Page: 2 of 2

Monitoring WELL No.: MW-11
Ground Surface Elev.: Approx. 123.4 ft.(MSL)
Total Boring Depth: 30 ft.
By: K. FLORY Date: 4/21/92

Pocket penetrometer TSF	Recovery (in/in)	Blow Count (blows/6")	Sample Depth (feet)	Well Detail	Stratigraphic Column	Description
0.5	18/18	5 6 9	20		CL	SANDY CLAY (CL), Continued. ● 20': Dark yellowish brown (10 YR, 3/4); 60-70% high plasticity fines; 20-30% fine to coarse sand; 10% gravel; soft; wet.
2.75	18/18	9 9 9	25			● 25': 50-60% low plasticity fines; 30-40% fine to coarse sand; 10% gravel; very stiff; moist.
2.75	18/18	4 5 9	30			BORING TERMINATED AT 30'
			35			
			40			

NOTES: Boring was drilled using eight-inch outside diameter (OD) hollow-stem augers. Soil samples were collected using a two-inch OD split-spoon sampler at five foot intervals. A groundwater monitoring well was installed using two-inch diameter PVC casing (see attached well detail).

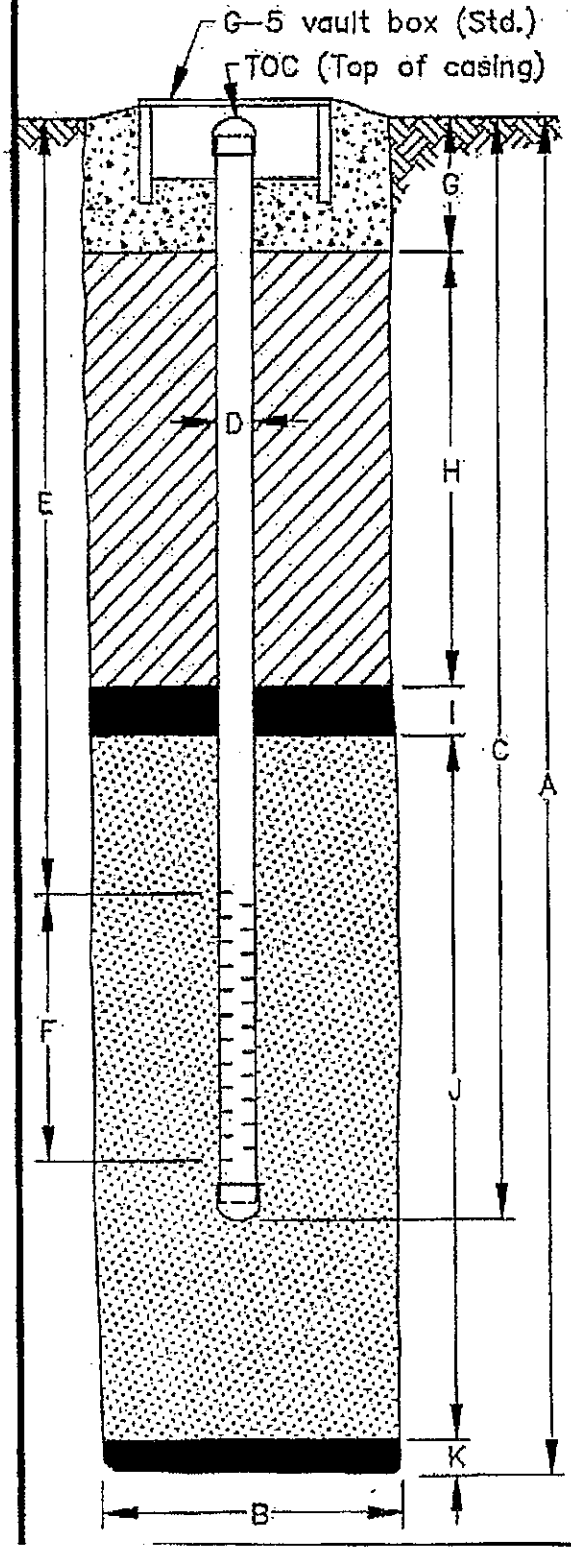
David C. Light; RG#4603; Exp. 6/30/94

WELL DETAILS

Project Number: CHV-149
Chevron Service Station No. 9-8139
16304 Foothill Boulevard, San Leandro, CA
Drawing No.: A1036606

WELL No.: MW-11
Top of Casing Elev.: 122.92ft.(MSL)
Ground Surface Elev.: APPROX. 123.4ft.(MSL)
Installation Date: 4/21/92

Well Permit No.: 92124



EXPLORATORY BORING

A. Total depth: 30 ft.
B. Diameter: 8 in.
Drilling method: 8"ø HSA

WELL CONSTRUCTION

C. Total casing length: 29.5 ft.
Material: SCH 40 PVC.
D. Diameter: 2 in.
E. Depth to top of perforations: 14.5 ft.
F. Perforated length: 15 ft.
Perforated interval from 14.5 to 29.5 ft.
Perforation type: MACHINE-SLOTTED
Perforation size: 0.010 INCH
G. Surface seal: 2 ft.
Seal material: CONCRETE
H. Backfill: 6 ft.
Backfill material: CEMENT-BENTONITE GROUT
I. Seal: 3 ft.
Seal material: BENTONITE-PELLETS
J. Gravel pack: 19 ft.
Pack material: 2/12 SAND
K. Bottom seal/fill: - ft.
Material: N/A

DT

Form prepared by K. FLORY

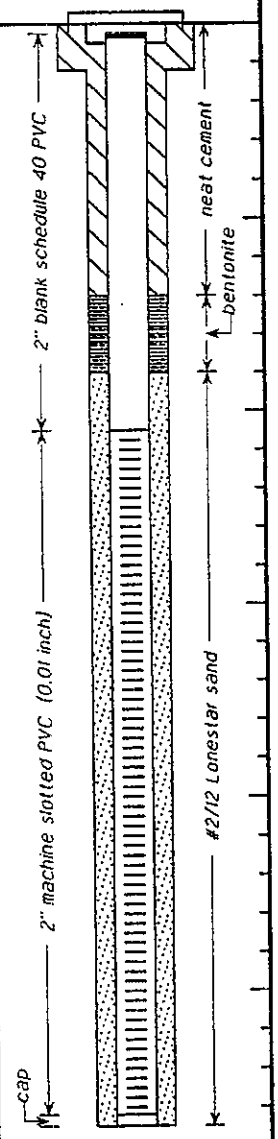
Gettler-Ryan, Inc.

Log of Boring MW-12

PROJECT: *Chevron Service Station #9-8139*	LOCATION: *16304 Foothill Boulevard, San Leandro, CA*
GR PROJECT NO. : *346461.06*	CASING ELEVATION: *--MSL*
DATE STARTED: *08/18/00*	WL (ft. bgs): *15.0* DATE: *08/18/00* TIME: *10:55*
DATE FINISHED: *08/18/00*	WL (ft. bgs): *11.8* DATE: *08/18/00* TIME: *14:00*
DRILLING METHOD: *8 in. Hollow Stem Auger*	TOTAL DEPTH: *28.50 feet*
DRILLING COMPANY: *Bay Area Exploration*	GEOLOGIST: *Barbara Sieminski*

DEPTH (feet)	PID (ppm)	BLOWS/FT. *	SAMPLE NUMBER	SAMPLE INT.	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION
							FILL: Gravel with sand and silt.
						CL	CLAY (CL) - dark brown (10YR 4/3), moist, medium plasticity, stiff; 90% clay, 5% silt, 5% fine to medium sand.
5	0	14	MW12-6			CL	CLAY WITH SAND (CL) - yellowish brown (10YR 4/4), damp, low plasticity, stiff; 60% clay, 20% silt, 20% fine to medium sand.
10	1.2	10	MW12-11			CL	SANDY CLAY (CL) - yellowish brown (10YR 4/4), moist, low plasticity, stiff; 50% clay, 30% fine to coarse sand, 20% silt, trace subangular fine gravel.
15	0	5	MW12-16			CL/SC	SANDY CLAY WITH CLAYEY SAND LENSES (CL/SC) - yellowish brown (10YR 5/4), saturated, low plasticity, medium stiff; 40% clay, 30% fine to coarse sand, 5-10% subangular fine gravel, 20-25% silt.
20	0	8	MW12-21				Gravel decreases to trace, clay increases to 50%.
25	0	7	MW12-24.5			SM	SILTY SAND WITH GRAVEL (SM) - yellowish brown (10YR 5/4), saturated, loose; 60% fine to coarse sand, 5-10% subangular fine gravel, 30% silt, 5-10% clay.
	0	4	MW12-27.5			CL	CLAY (CL) - dark yellowish brown (10YR 3/4), saturated, medium plasticity, soft; 80% clay, 10-15% silt, 5-10% fine to coarse sand.
30							Bottom of boring at 28.5 feet bgs.
35							(* = Converted to equivalent standard penetration blows/foot.)

WELL DIAGRAM



JOB NUMBER: *346461.06*

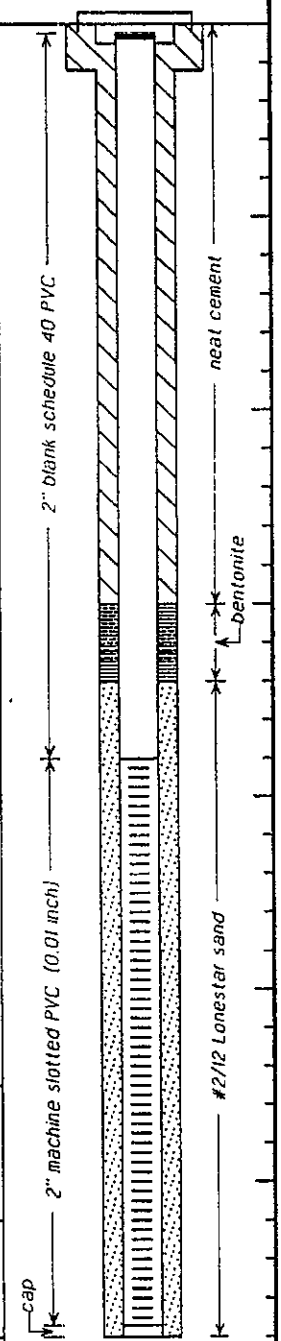
Gettler-Ryan, Inc.

Log of Boring MW-13

PROJECT: *Chevron Service Station #9-8139*	LOCATION: *16304 Foothill Boulevard, San Leandro, CA*
GR PROJECT NO.: *346461.06*	CASING ELEVATION: *--MSL*
DATE STARTED: *08/09/00*	WL (ft. bgs): *25.0* DATE: *08/09/00* TIME: *12:00*
DATE FINISHED: *08/09/00*	WL (ft. bgs): *12.1* DATE: *08/09/00* TIME: *17:50*
DRILLING METHOD: *8 in. Hollow Stem Auger*	TOTAL DEPTH: *34 feet*
DRILLING COMPANY: *Bay Area Exploration*	GEOLOGIST: *Barbara Sieminski*

DEPTH (feet)	PID (ppm)	BLOWS/FT. *	SAMPLE NUMBER	SAMPLE INT.	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION
							FILL: Gravel with sand and silt.
5	0	9	MW13-6			CL	CLAY (CL) - dark brown (10YR 4/3), moist, medium plasticity, stiff; 90% clay, 5% silt, 5% fine to medium sand.
10	0	13	MW13-11				Becomes damp, color changes to yellowish brown (10YR 5/6), silt increases to 30%, 10% fine to coarse sand, 60% clay at 10 feet.
15	0	12	MW13-16			CL	CLAY WITH SAND (CL) - yellowish brown (10YR 5/6), damp, low plasticity, stiff; 50% clay, 25% silt, 20% fine to coarse sand, 5% subangular fine gravel No water in hole at 15 feet after pulling augers up 1.5 feet and waiting 15 minutes.
20	0	11	MW13-21			CL	SANDY CLAY (CL) - yellowish brown (10YR 5/4), moist, low plasticity, stiff, 40% clay, 30% fine to coarse sand, 30% silt, trace subangular fine gravel.
25	0	6	MW13-26				Clay decreases to 35%, gravel increases to 5%,, becomes medium stiff and saturated at 25 feet.
30	0	8	MW13-31			SW-SM	SAND WITH GRAVEL (SW-SM) - yellowish brown (10YR 5/4), saturated, loose; 70% fine to coarse sand, 20% subangular fine gravel, 10% silt.
						CL	CLAY (CL) - yellowish brown (10YR 5/6), saturated, medium plasticity, medium stiff; 100% clay.
35							Bottom of boring at 34 feet bgs. (* = Converted to equivalent standard penetration blows/foot.)

WELL DIAGRAM



JOB NUMBER: *346461.06*

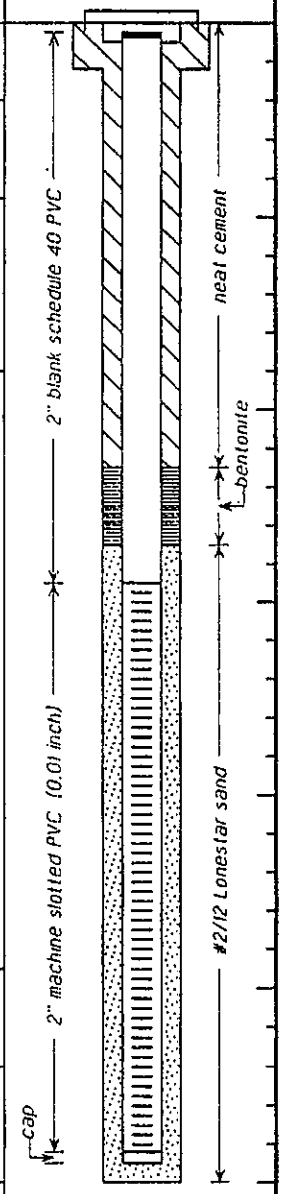
Gettler-Ryan, Inc.

Log of Boring MW-14

PROJECT: *Chevron Service Station #9-8139*	LOCATION: *16304 Foothill Boulevard, San Leandro, CA*
GR PROJECT NO.: *346461.06*	CASING ELEVATION: *--MSL*
DATE STARTED: *08/09/00*	WL (ft. bgs): *21.0* DATE: *08/09/00* TIME: *16:35*
DATE FINISHED: *08/09/00*	WL (ft. bgs): *14.5* DATE: *08/09/00* TIME: *20:00*
DRILLING METHOD: *8 in. Hollow Stem Auger*	TOTAL DEPTH: *30 feet*
DRILLING COMPANY: *Bay Area Exploration*	GEOLOGIST: *Barbara Sieminski*

DEPTH (feet)	PID (ppm)	BLOWS/FT. *	SAMPLE NUMBER	SAMPLE INT.	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION
							FILL: Gravel with sand and silt.
						CL	CLAY (CL) - dark brown (10YR 4/3), moist, medium plasticity, stiff; 90% clay, 5% silt, 5% fine to medium sand.
5	0	16	MW14-6			CL	CLAY WITH SAND (CL) - dark yellowish brown (10YR 5/6), damp, low plasticity, stiff; 60% clay, 20% silt, 20% fine to coarse sand, trace subangular fine gravel.
10	0	15	MW14-11			CL	SANDY CLAY (CL) - yellowish brown (10YR 5/4), damp, low plasticity, stiff, 40% clay, 30% fine to coarse sand, 20% silt, 10% subangular fine gravel.
15	4	8	MW14-16				Becomes moist at 16 feet. No water in hole.
20	3.5	8	MW14-21				
25	0	5	MW14-24.5			SM	SILTY SAND (SM) - yellowish brown (10YR 5/4), saturated, loose; 60% fine to coarse sand, 5-10% subangular fine gravel, 30% silt, 0-5% clay.
						CL	CLAY (CL) - dark yellowish brown (10YR 3/4), moist to saturated, medium plasticity, stiff; 80% clay, 15-20% silt, 0-5% fine sand.
30	0	6	MW14-29.5				Bottom of boring at 30 feet bgs. (* = Converted to equivalent standard penetration blows/foot.)
35							

WELL DIAGRAM



JOB NUMBER: *346461.06*

Conestoga-Rovers & Associates
2000 Opportunity Drive, Suite 110
Roseville, CA 95678
Telephone: (916) 677-3407
Fax: (916) 677-3687

BORING/WELL LOG

CLIENT NAME	Chevron Environmental Management Co.	BORING/WELL NAME	GP-1
JOB/SITE NAME	9-8139	DRILLING STARTED	15-Nov-07
LOCATION	16304 Foothills Boulevard	DRILLING COMPLETED	16-Nov-07
PROJECT NUMBER		WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Gregg Drilling & Testing, Inc.	GROUND SURFACE ELEVATION	Not Surveyed
DRILLING METHOD	Hydraulic push	TOP OF CASING ELEVATION	Not Surveyed
BORING DIAMETER	2	SCREENED INTERVAL	NA
LOGGED BY	C. Benedict	DEPTH TO WATER (First Encountered)	32.0 fbg (16-Nov-07) ▽
REVIEWED BY	B. Carey, P.G. 7820	DEPTH TO WATER (Static)	NA ▼
REMARKS			

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							Asphalt	0.5	
							Gravelly Lean CLAY:brown; moist; 50% clay, 30% gravel, 10% sand, 10% silt; moderate plasticity; medium estimated permeability.		
24.1		GP-1-5		5					
1.7							Gravelly Lean CLAY:dark brown; moist; 50% clay, 20% silt, 20% gravel, 10% sand; moderate plasticity; medium estimated permeability.	8.0	
				10			Lean CLAY:light brown; moist; mottling; 60% clay, 25 % silt, 10% sand, 5% gravel; moderate plasticity; medium estimated permeability.	10.0	
28							Gravelly Lean CLAY:brown; dry; 45% clay, 25% gravel, 20% silt, 10% sand; moderate plasticity; medium estimated permeability.	12.0	
		GP-1-15		15			Color change to brown with mottling		
235							Color Change to grey brown	18.0	
101				20			Lean CLAY with sand:light brown; dry; 60% clay, 25% silt, 15% sand; moderate plasticity; low estimated permeability.	21.0	
					CL		Gravelly Lean CLAY:brown; dry; 40% clay, 30% gravel, 20% silt, 10% sand; moderate plasticity; medium estimated permeability.		Portland Type I/II
		GP-1-25		25			Lean CLAY with sand:brown; dry; 60% clay, 25% silt, 15% sand; moderate plasticity; low estimated permeability.	25.0	
15.4							Color change to grey brown.		
33.6				30			Lean CLAY with sand:grey brown; wet; 60% clay, 25% silt, 15% sand; moderate plasticity; low estimated permeability. ▽	30.0	
							Sandy Lean CLAY with gravel:brown; wet; 30% clay, 30% sand, 20% silt, 20% gravel; low plasticity; high estimated permeability.	33.0	
		GP-1-35		35					

Continued Next Page

Conestoga-Rovers & Associates
2000 Opportunity Drive, Suite 110
Roseville, CA 95678
Telephone: (916) 677-3407
Fax. (910) 077-3007

BORING/WELL LOG

CLIENT NAME	Chevron Environmental Management Co.	**BORING/WELL NAME**	GP-1
JOB/SITE NAME	9-8139	**DRILLING STARTED**	15-Nov-07
LOCATION	16304 Foothills Boulevard	**DRILLING COMPLETED**	16-Nov-07

Continued from Previous Page

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
3.3							No recovery of soil; Wet medium to coarse grained sand was observed on Geoprobe sleeve.	36.0	
				40			Hydropunch Groundwater sample collected		
				45				45.0	Bottom of Boring @ 45 fbg

Conestoga-Rovers & Associates
2000 Opportunity Drive, Suite 110
Roseville, CA 95678
Telephone: (916) 677-3407
Fax. (916) 677-3087

BORING/WELL LOG

CLIENT NAME	Chevron Environmental Management Co.	BORING/WELL NAME	GP-2
JOB/SITE NAME	9-8139	DRILLING STARTED	15-Nov-07
LOCATION	16304 Foothills Boulevard	DRILLING COMPLETED	16-Nov-07
PROJECT NUMBER		WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Gregg Drilling & Testing, Inc.	GROUND SURFACE ELEVATION	Not Surveyed
DRILLING METHOD	Hydraulic push	TOP OF CASING ELEVATION	Not Surveyed
BORING DIAMETER	2	SCREENED INTERVAL	NA
LOGGED BY	C. Benedict	DEPTH TO WATER (First Encountered)	32.0 fbg (16-Nov-07)
REVIEWED BY	B. Carey, P.G. 7820	DEPTH TO WATER (Static)	NA
REMARKS			

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							Asphalt	0.5	
					CL		Fill: brown; moist; 40% clay, 30% sand, 30% silt; low plasticity; high estimated permeability.	2.0	
							Fat CLAY: dark brown; moist; 70% clay, 20% silt, 10% sand; high plasticity; low estimated permeability.		
6.0				5	CH				
								8.0	
1.8		GP-2-10		10			Sandy Lean CLAY: brown; moist; 40% clay, 35% sand, 25% silt; moderate plasticity, medium estimated permeability.		
							Mottling	12.0	
				15			Lean CLAY with sand: brown; moist; 60% clay, 25% silt, 15% sand; moderate plasticity, low estimated permeability.		
109		GP-2-20		20	CL				
345								22.0	
							Sandy Lean CLAY with gravel: grey-green, moist, 50% clay, 20% sand, 20% gravel, 10% silt, moderate plasticity, medium estimated permeability.	23.0	Portland Type I/II
				25			Lean CLAY with sand: brown, moist, 60% clay, 25% silt, 15% sand, moderate plasticity, medium estimated permeability.	25.0	
276							Lean CLAY with sand: brown with grey mottling, moist, 60% clay, 25% silt, 15% sand, moderate plasticity, medium estimated permeability. Black Mottling		
				30					
								32.0	
							Clayey Sand with gravel: brown, wet, 30 % gravel, 30% sand, 20% silt, 20% clay; low plasticity; high estimated permeability.		
		GP-2-35		35					

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Conestoga-Rovers & Associates
2000 Opportunity Drive, Suite 110
Roseville, CA 95678
Telephone: (916) 677-3407
Fax: (916) 677-3087

BORING/WELL LOG

CLIENT NAME	Chevron Environmental Management Co.	**BORING/WELL NAME**	GP-2
JOB/SITE NAME	9-8139	**DRILLING STARTED**	15-Nov-07
LOCATION	16304 Foothills Boulevard	**DRILLING COMPLETED**	16-Nov-07

Continued from Previous Page

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
20.6					SC				
				40				40.0	
							Hydropunch groundwater sample collected.		
				45					Bottom of Boring @ 45 fbg

WELL LOG (PID) \\SAC-S1\SHARED\ROCKLI~1.CHE\9-8139~1\GINT\B-119-8139.GPJ DEFAULT.GDT 1/30/08

Conestoga-Rovers & Associates
10969 Trade Center Drive Suite 107
Rancho Cordova, CA 95670
Telephone: (916) 889-8900
Fax. (916) 889-8999

BORING/WELL LOG

CLIENT NAME	Chevron Environmental Management Co.	BORING/WELL NAME	GP-3
JOB/SITE NAME	9-8139	DRILLING STARTED	04-Nov-09
LOCATION	16304 Foothill Boulevard, San Leandro	DRILLING COMPLETED	04-Nov-09
PROJECT NUMBER	611971	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	PeneCore Drilling	GROUND SURFACE ELEVATION	Not Surveyed
DRILLING METHOD	Hydraulic push - Dual-tube	TOP OF CASING ELEVATION	Not Surveyed
BORING DIAMETER	2.5 inches	SCREENED INTERVAL	NA
LOGGED BY	C. Benedict	DEPTH TO WATER (First Encountered)	15.0 fbg (04-Nov-09)
REVIEWED BY	J. Kiernan, PE# C68498	DEPTH TO WATER (Static)	NA
REMARKS	Cleared for utilities to 5 fbg using hand-auger.		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							Asphalt	0.8	Concrete
				5			**FILL: Sandy SILT with gravel:** Brown; moist; 1/8" to 1/2" angular gravel.		
0		GP-3-10		10			**FILL: Sandy CLAY with gravel:** Greenish gray; moist; medium plasticity; 1/8" to 1/2" gravel.		
							FILL: GRAVEL: Gray; moist; 1/8 to 1/2" gravel.		
0		GP-3-15		15			Wet at 15-15.5 fbg. ▽	15.5	
208		GP-3-17					**CLAY:** Brown; moist; high plasticity; very stiff.		
1071		GP-3-20		20	CH		Color change to gray.		
1.5		GP-3-25		25			Color change to brown.		
					ML		**Gravelly SILT:** Brown; moist; medium plasticity; soft.	26.0	Portland Type I/II
							CLAY: Brown; moist; high plasticity; stiff.	27.5	
0		GP-3-30		30	CH		**CLAY with sand:** Brown; moist; medium plasticity; well graded sand; medium stiff.	34.0	
		GP-3-35		35			**SILT with sand:** Brown; moist; medium plasticity; medium		

Continued Next Page

Conestoga-Rovers & Associates
10969 Trade Center Drive Suite 107
Rancho Cordova, CA 95670
Telephone: (916) 889-8900
Fax: (916) 889-0999

BORING/WELL LOG

CLIENT NAME	Chevron Environmental Management Co.	BORING/WELL NAME	GP-3
JOB/SITE NAME	9-8139	DRILLING STARTED	04-Nov-09
LOCATION	16304 Foothill Boulevard, San Leandro	DRILLING COMPLETED	04-Nov-09

Continued from Previous Page

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
0					ML		stiff.		
								37.0	
					CL		**CLAY with sand:** Brown; moist; high plasticity; stiff.	38.0	
					SM		**Silty SAND:** Light brown; dry; well-graded sand.		
0		GP-3- 40		40				41.0	
					ML		**SILT with sand:** Light Gray; dry; low plasticity; fine sand.		
							Color change to light brown	44.0	
0		GP-3- 45		45	SM		**Silty SAND:** Light brown; moist; fine to medium sand.	45.0	
					ML		**Sandy SILT:** Gray; dry; low plasticity.		
							Color change to light brown.		
0		GP-3- 50		50			Color change to gray.		
								53.0	
							REFUSAL		Bottom of Boring @ 53 fbg

Conestoga-Rovers & Associates
10969 Trade Center Drive Suite 107
Rancho Cordova, CA 95670
Telephone: (916) 889-8900
Fax: (916) 889-8999

BORING/WELL LOG

CLIENT NAME	Chevron Environmental Management Co.	BORING/WELL NAME	GP-4
JOB/SITE NAME	9-8139	DRILLING STARTED	05-Nov-09
LOCATION	16304 Foothill Boulevard, San Leandro	DRILLING COMPLETED	05-Nov-09
PROJECT NUMBER	611971	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	PeneCore Drilling	GROUND SURFACE ELEVATION	Not Surveyed
DRILLING METHOD	Hydraulic push - Dual-tube	TOP OF CASING ELEVATION	Not Surveyed
BORING DIAMETER	2.5 inches	SCREENED INTERVAL	NA
LOGGED BY	C. Benedict	DEPTH TO WATER (First Encountered)	31.0 fbg (05-Nov-09) ▽
REVIEWED BY	J. Kiernan, PE# C68498	DEPTH TO WATER (Static)	NA ▼
REMARKS	Cleared for utilities to 5 fbg using hand-auger.		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							Ashpalt.	0.5	Concrete
							FILL: Silty SAND with gravel: Aggregate base; brown; moist.	2.0	
							CLAY: Dark gray; moist; high plasticity; stiff.		
				5			Color change to brown with green mottling.		
					CL		Very stiff.		
238		GP-4-10		10			Color change to brown.		
								15.0	
75				15			CLAY with sand: Brown; moist; high plasticity; very stiff.		
28.5							Trace fine gravel.		
							Color change to light brown.		
16.4				20			Green mottling present.		
					CH		Thin (<1 inch) layer of increased fine gravel and sand; greenish gray; wet; medium plasticity; soft.		
22.2							Color change to brown; stiff.		
2.7				25			Color change to light brown.		
9.6								28.5	
					CL		CLAY with sand: Light brown; moist; medium plasticity.	30.0	
3.6				30			Sandy CLAY with gravel: Light brown; moist; medium plasticity. ▽		
					CL		Wet at 31 fbg.	32.5	
0							CLAY with sand: Light brown; moist; medium plasticity; stiff.		Portland Type I/II
				35					

WELL LOG (PID) I:\CHEVRON\6119-611971-1611971-2611971-1.GPJ DEFAULT.GDT 12/17/09

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Conestoga-Rovers & Associates
10969 Trade Center Drive Suite 107
Rancho Cordova, CA 95670
Telephone: (916) 889-8900
Fax: (916) 889-0999

BORING/WELL LOG

CLIENT NAME	Chevron Environmental Management Co.	BORING/WELL NAME	GP-4
JOB/SITE NAME	9-8139	DRILLING STARTED	05-Nov-09
LOCATION	16304 Foothill Boulevard, San Leandro	DRILLING COMPLETED	05-Nov-09

Continued from Previous Page

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
0							Color change to dark brown.		
0				40			Color change to light brown.		
0				45			Increase silt with depth; color change to brown; less stiff. Wet at 47 fbg.		
					CL		Increase clay; light brown; moist; very stiff.		
0				50					
0				55					
0				60					
0				65				65.0	
0					CL		Gravelly CLAY with sand: Light brown; wet; medium estimated plasticity; 1/8-1/2 inch gravel.	67.5	Bottom of Boring @ 67.5 fbg

WELL LOG (PID) I:\CHEVRON\6119-\611971~1\611971~2\611971~1.GPJ DEFAULT.GDT 12/17/09

Conestoga-Rovers & Associates
10969 Trade Center Drive Suite 107
Rancho Cordova, CA 95670
Telephone: (916) 889-8900
Fax: (016) 880 8000

BORING/WELL LOG

CLIENT NAME	Chevron Environmental Management Co.	BORING/WELL NAME	GP-5
JOB/SITE NAME	9-8139	DRILLING STARTED	06-Nov-09
LOCATION	16304 Foothill Boulevard, San Leandro	DRILLING COMPLETED	06-Nov-09
PROJECT NUMBER	611971	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	PeneCore Drilling	GROUND SURFACE ELEVATION	Not Surveyed
DRILLING METHOD	Hydraulic push - Dual-tube	TOP OF CASING ELEVATION	Not Surveyed
BORING DIAMETER	2.5 inches	SCREENED INTERVAL	NA
LOGGED BY	C. Benedict	DEPTH TO WATER (First Encountered)	37.0 fbg (06-Nov-09)
REVIEWED BY	J. Kiernan, PE# C68498	DEPTH TO WATER (Static)	NA
REMARKS	Cleared for utilities to 5 fbg using hand-auger.		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							Asphalt	0.5	Concrete
							FILL: Sandy CLAY with gravel: Brown; moist.		
							CLAY: Brown with green mottling; moist; high plasticity; very stiff.	3.0	
				5					
				10					
1200		GP-5-20		15	CL				
				20			Color change to olive gray.		
				25			Color change to brown. Color change to light brown.		
								28.0	
				30	CL		Sandy CLAY with gravel: Light brown; moist; medium plasticity; soft.		
								32.0	Portland Type I/II
					CL		CLAY: Red brown; moist; medium plasticity; stiff.		
				35					

Continued Next Page

Conestoga-Rovers & Associates
10969 Trade Center Drive Suite 107
Rancho Cordova, CA 95670
Telephone: (916) 889-8900
Fax: (916) 889-8999

BORING/WELL LOG

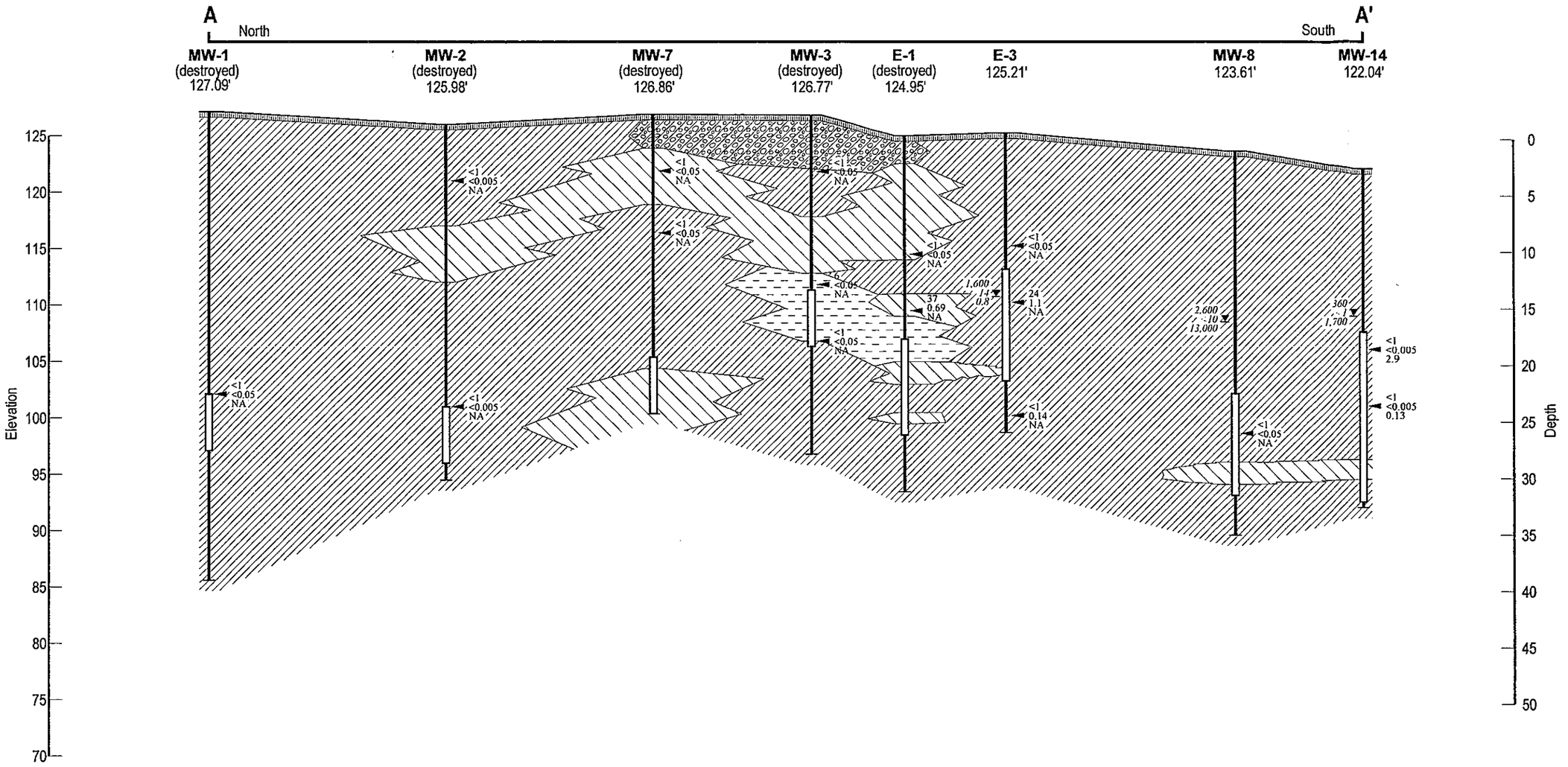
CLIENT NAME	Chevron Environmental Management Co.	**BORING/WELL NAME**	GP-5
JOB/SITE NAME	9-8139	**DRILLING STARTED**	06-Nov-09
LOCATION	16304 Foothill Boulevard, San Leandro	**DRILLING COMPLETED**	06-Nov-09

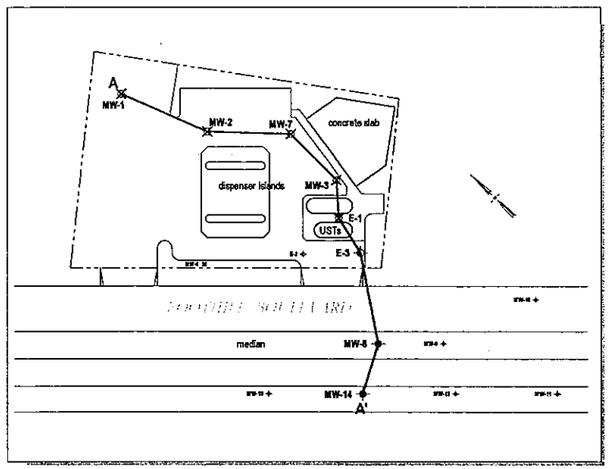
Continued from Previous Page

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
				40	CL		**Sandy CLAY with gravel:** Red brown; moist; medium plasticity; stiff. ▽ Wet at 37 fbg.	35.3	
				45	SM		**Silty SAND with gravel:** Light brown; wet; fine to medium sand.	42.5	
				50				51.0	
				55	CL		**CLAY with sand:** Olive gray; moist; medium plasticity; stiff; fine to coarse sand.		
				60	ML		**SILT with sand:** Gray; moist; medium plasticity; hard.	60.0	
							Wet at 63 fbg.	63.0	Bottom of Boring @ 63 fbg

03/17/04

Geologic Cross Section A-A'





EXPLANATION

- = Low Permeability Soils
- = Moderate Permeability Soils
- = High Permeability Soils
- = Fill (Tank Pit)
- Approximate sample location

TPHg / Benzene / MTBE — Hydrocarbon concentrations in Soil, in parts per million

Well ID — Well Designation
Elev. — Top of Casing Elevation
Groundwater Monitoring Well
Well Screen Interval
Bottom of boring

Depth of Groundwater - 11/10/2003

TPHg / Benzene / MTBE — Hydrocarbon concentrations in Groundwater, in parts per billion

10
Scale (ft)
0 30

FIGURE
3

Chevron
56304 Foothill Boulevard
San Leandro, California

I:\0-ROCKLIN\0-8139 SAN LEANDRO\FIGURES\W-SECTION-A.DWG

Geologic Cross Section B-B'

B — Northeast — Southwest — B'

MW-6 (destroyed)	E-2	E-3	MW-10
124.18'	125.52'	125.21'	125.03'

Elevation: 125, 120, 115, 110, 105, 100, 95, 90, 85

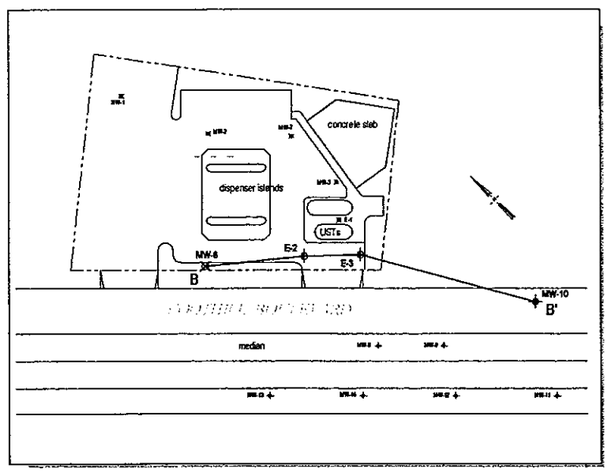
Approximate Depth: 0, 5, 10, 15, 20, 25, 30, 35, 40

MW-6 (destroyed): 2 / <0.05 / NA; 5 / <0.05 / NA

E-2: <1 / <0.05 / NA; 1,700 / <0.5 / 1,500; 130 / 0.29 / NA; <1 / 0.14 / NA

E-3: <1 / <0.05 / NA; 1,600 / 14 / 0.8; 24 / 1.1 / NA

MW-10: <50 / <0.5 / <0.5; <1 / <0.005 / NA



EXPLANATION

- = Low Permeability Soils
  - CH - Inorganic Clay
  - CL - Clay
  - SC - Clayey Sand
- = Moderate Permeability Soils
  - ML - Clayey Silt
  - SM - Silty Sand
- = High Permeability Soils
  - SP - Poorly Graded Sand
  - SW - Well Graded Sand
- = Fill (Tank Pit)
- Approximate sample location
- TPHg / Benzene / MTBE — Hydrocarbon concentrations in Soil, in parts per million

Well ID — Well Designation
Elev. — Top of Casing Elevation
- Groundwater Monitoring Well
- Well Screen Interval
- Bottom of boring
- Depth of Groundwater - 11/10/2003
- TPHg / Benzene / MTBE — Hydrocarbon concentrations in Groundwater, in parts per billion

Scale (ft): 10; 0; 20

FIGURE 4

Chevron Service Station 9-8139
16304 Foothill Boulevard
San Leandro, California

CAMBRIA

I:\O-ROCKLIN\9-8139 SAN LEANDRO\FIGURES\X-SECTION-B.DWG

APPENDIX C

SECOND SEMI-ANNUAL 2010 GROUNDWATER MONITORING REPORT

GETTLER-RYAN INC.

TRANSMITTAL

September 17, 2010
G-R #386461

TO: Mr. James Kiernan
Conestoga-Rovers & Associates
10969 Trade Center Drive, Suite 107
Rancho Cordova, CA 95670

FROM: Deanna L. Harding
Project Coordinator
Gettler-Ryan Inc.
6747 Sierra Court, Suite J
Dublin, California 94568

RE: Chevron Service Station
#9-8139 (MTI)
16304 Foothill Boulevard
San Leandro, California
RO 0000368
RWQCB-Case No. 01-0330

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DATED	DESCRIPTION
2	September 14, 2010	Groundwater Monitoring and Sampling Report **Second Semi-Annual Event of August 23, 2010**

COMMENTS:

Pursuant to your request, we are providing you with copies of the above referenced report for **your use and distribution to the following (including PDF submittal of the entire report to GeoTracker):**

Ms. Stacie H. Frerichs, Chevron Environmental Management Company, 6111 Bollinger Canyon Road, Room 3596, San Ramon, CA 94583***(PDF ONLY)***
Mr. Harv Dahliwal, P.E., G&S Associates, Inc., 4430 Deerfield Way, Danville, CA 94506

Please provide any comments/changes and propose any groundwater monitoring modifications for the next event prior to ***October 1, 2010,*** at which time this final report will be distributed to the following:

cc: Mr. Mark Detterman, Alameda County Health Care Services, Dept. of Environmental Health, 1131 Harbor Bay Parkway, Suite 250, Alameda, CA 94502-6577
(No Hard Copy-CRA UPLOAD TO ALAMEDA CO.)

Enclosures

trans/9-8139

Stacie H. Frerichs
Team Lead
Marketing Business Unit

Chevron Environmental
Management Company
6001 Bollinger Canyon Road
San Ramon, CA 94583
Tel (925) 842-9655
Fax (925) 842-8370

September 17, 2010
(date)

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

Re: Chevron Facility # 9-8139

Address: 16304 Foothill Boulevard, San Leandro, California

I have reviewed the attached routine groundwater monitoring report dated September 17, 2010.

I agree with the conclusions and recommendations presented in the referenced report. The information in this report is accurate to the best of my knowledge and all local Agency/Regional Board guidelines have been followed. This report was prepared by Gettler-Ryan, Inc., upon whose assistance and advice I have relied.

This letter is submitted pursuant to the requirements of California Water Code Section 13267(b)(1) and the regulating implementation entitled Appendix A pertaining thereto.

I declare under penalty of perjury that the foregoing is true and correct.

Sincerely,

SHFrerichs

Stacie H. Frerichs
Project Manager

Enclosure: Report

WELL CONDITION STATUS SHEET

Client/Facility #: Chevron #9-8139
Site Address: 16304 Foothill Blvd.
City: San Leandro, CA

Job # 386461
Event Date: 8/23/10
Sampler: KE

WELL ID	Vault Frame Condition	Gasket/ O-Ring (M)missing	BOLTS (M) Missing (R) Replaced	Bolt Flanges B= Broken S= Stripped R=Retap	APRON Condition C=Cracked B=Broken G=Gone	Grout Seal (Deficient) inches from TOC	Casing (Condition prevents tight cap seal)	REPLACE LOCK Y / N	REPLACE CAP Y / N	WELL VAULT Manufacture/Size/ # of Bolts	Pictures Taken Yes / No
mw-12	OK	m	OK	OK	OK	OK	OK	n	n	Boart Longyear/8/@3	
mw-14		m		1(S)	C			Y	Y	" "	
EW-2		OK		2(S)	OK			Y	Y	morrisson/12/2	
EW-3	↓	m	↓	1(S)	↓	↓	↓	Y	Y	" "	

Comments

GETTLER-RYAN INC.

September 14, 2010
G-R Job #386461

Ms. Stacie H. Frerichs
Chevron Environmental Management Company
6111 Bollinger Canyon Road, Room 3596
San Ramon, CA 94583

RE: Second Semi-Annual Event of August 23, 2010
Groundwater Monitoring & Sampling Report
Chevron Service Station #9-8139
16304 Foothill Boulevard
San Leandro, California

Dear Ms. Frerichs:

This report documents the most recent groundwater monitoring and sampling event performed by Gettler-Ryan Inc. (G-R) at the referenced site. All field work was conducted in accordance with G-R Standard Operating Procedure - Groundwater Sampling (attached).

Static groundwater levels were measured and the wells were checked for the presence of separate-phase hydrocarbons. Static water level data, groundwater elevations and separate-phase hydrocarbon thickness (if any) are presented in the attached Table 1. A Potentiometric Map is included as Figure 1.

Groundwater samples were collected from the monitoring wells and submitted to a state certified laboratory for analyses. The field data sheets for this event are attached. Analytical results are presented in the table(s) listed below. The chain of custody document and the laboratory analytical reports are also attached. All groundwater and decontamination water generated during sampling activities was removed from the site, per the Standard Operating Procedure.

Please call if you have any questions or comments regarding this report. Thank you.

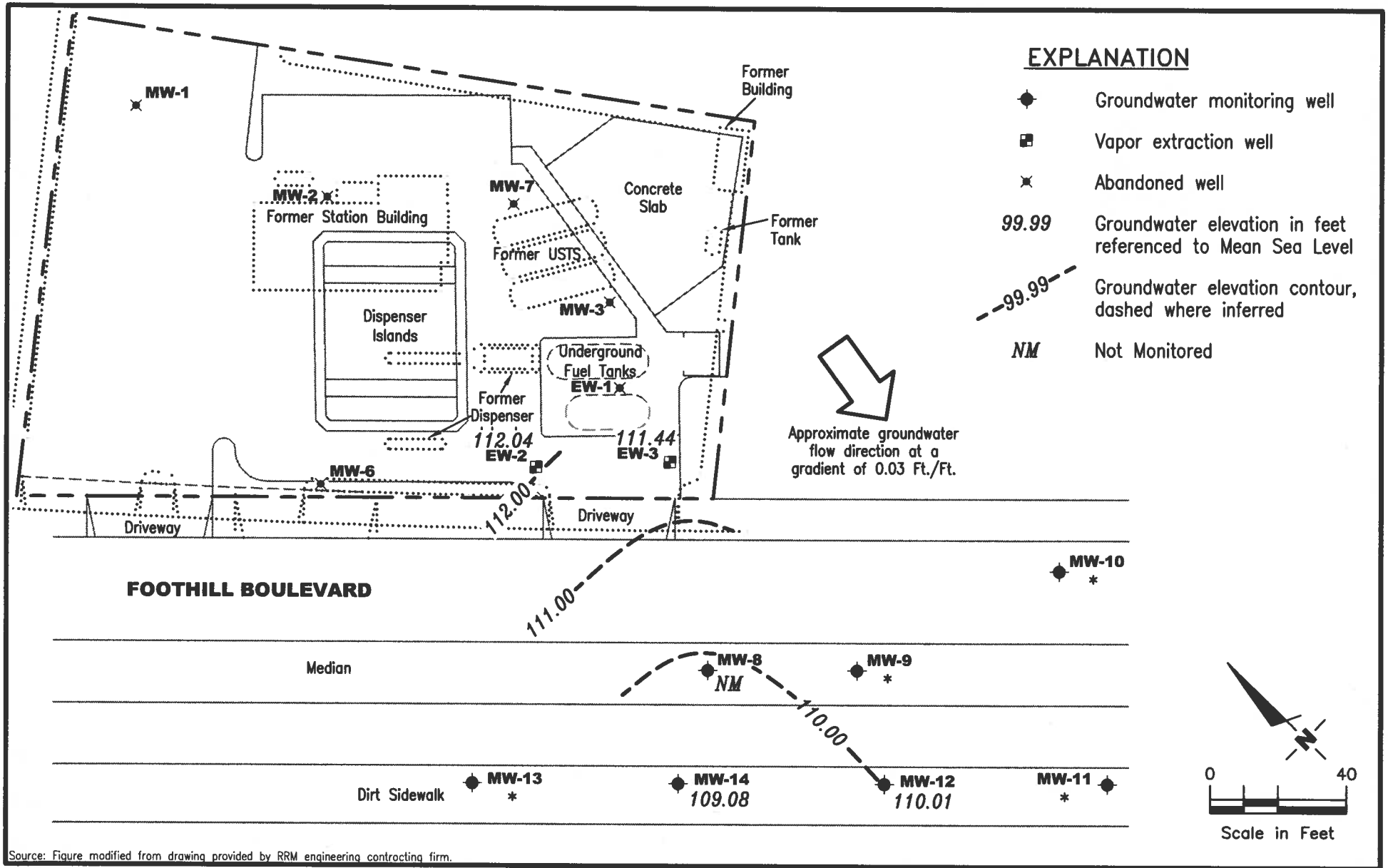
Sincerely,

Deanna L. Harding
Project Coordinator

Douglas J. Lee
Senior Geologist, P.G. No. 6882

PROFESSIONAL GEOLOGIST
DOUGLAS J. LEE
No. 6882
STATE OF CALIFORNIA

Figure 1: Potentiometric Map
Table 1: Groundwater Monitoring Data and Analytical Results
Table 2: Groundwater Analytical Results - Oxygenate Compounds
Attachments: Standard Operating Procedure - Groundwater Sampling
Field Data Sheets
Chain of Custody Document and Laboratory Analytical Reports



Source: Figure modified from drawing provided by RRM engineering contracting firm.

GETTLER - RYAN INC.
6747 Sierra Court, Suite J
Dublin, CA 94568 (925) 551-7555

POTENTIOMETRIC MAP
Chevron Service Station #9-8139
16304 Foothill Boulevard
San Leandro, California

FIGURE
1

JOB NUMBER	REVIEWED BY	DATE	REVISED DATE
386461		August 23, 2010	

FILE NAME: P:\Enviro\Chevron\9-8139\Q10-9-8139.dwg | Layout Tab: Pot3

Table 1

Groundwater Monitoring and Analytical Results

Chevron Service Station #9-8139

16304 Foothill Boulevard

San Leandro, California

WELL ID/ DATE		TOC* (ft.)	DTW (ft.)	S.I. (ft.bgs)	GWE (msl)	SPHT (ft.)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
MW-8												
09/07/90[3]		123.61	16.07	--	107.54	--	<50	<0.5	<0.5	<0.5	<0.5	<0.05
09/25/90		123.61	16.20		107.41	--	--	--	--	--	--	--
11/29/90		123.61	16.30		107.31	--	<50	<0.5	<0.5	<0.5	<0.5	--
11/29/90	(D)	123.61	--		--	--	<50	<0.5	<0.5	<0.5	<0.5	--
02/20/91		123.61	16.32		107.29	--	<50	<0.5	<0.5	<0.5	<0.5	--
04/19/91		123.61	14.71		108.90	--	--	--	--	--	--	--
05/22/91		123.61	15.42		108.19	--	<50	0.6	<0.5	<0.5	1.0	--
08/22/91		123.61	17.15		106.46	--	<50	<0.5	<0.5	<0.5	<0.5	--
11/14/91		123.61	16.99		106.62	--	<50	<0.5	<0.5	<0.5	<0.5	--
01/30/92		123.61	16.30		107.31	--	<50	1.0	0.7	<0.5	1.1	--
04/23/92		123.61	15.05		108.56	--	<50	<0.5	<0.5	<0.5	<0.5	--
07/27/92		123.61	16.08		107.53	--	<50	<0.5	<0.5	<0.5	<0.5	--
10/26/92		123.61	16.72		106.89	--	<50	<0.5	<0.5	<0.5	<0.5	--
01/29/93		123.61	12.82		110.79	--	1,400	470	470	37	160	--
04/30/93		123.61	13.54		110.07	--	1,600	<13	15	18	29	--
07/14/93		123.61	14.65		108.96	--	<50	<0.5	0.7	<0.5	2.0	--
10/27/93		123.61	15.04		108.57	--	<50	3.0	4.0	2.0	4.0	--
01/13/94		123.61	15.14		108.47	--	<50	<0.5	4.0	<0.5	<0.5	--
04/22/94		123.61	15.01		108.60	--	<50	<0.5	<0.5	<0.5	<0.5	--
07/28/94		123.61	14.70		108.91	--	69	7.3	18	3.3	12	--
10/25/94		123.61	15.20		108.41	--	<50	<0.5	0.8	<0.5	1.6	--
01/19/95		123.61	12.00		111.61	--	<50	<0.5	3.1	<0.5	0.7	--
05/01/95		123.61	11.40		112.21	--	<50	<0.5	<0.5	<0.5	<0.5	--
04/03/97		123.61	11.72		111.89	--	<200	<2.0	<2.0	<2.0	<2.0	610
10/07/97		123.61	13.60		110.01	--	<50	<0.5	<0.5	<0.5	<0.5	500
04/14/98		123.61	8.75		114.86	--	<50	<0.5	<0.5	<0.5	<0.5	120
10/13/98		123.61	12.72		110.89	--	270	<0.5	<0.5	<0.5	<0.5	2,600
04/16/99		123.61	11.55		112.06	--	480	<2.0	<2.0	<2.0	<2.0	5,000
07/29/99[6]		123.61	12.35		111.26	--	--	--	--	--	--	--
10/26/99		123.61	12.68		110.93	--	1,890	<5.0	12.1	<5.0	<5.0	39,000
04/07/00[9]		123.61	11.24		112.37	--	<500	<5.0	<5.0	<5.0	<5.0	2,500
10/10/00[9]		123.61	12.76		110.85	--	295[11]	<0.500	<0.500	<0.500	<0.500	19,500
04/03/01[9]		123.61	12.09		111.52	--	3,340	2.84	3.05	<0.500	2.58	21,500
08/14/01[13]		123.61	13.06		110.55	--	2,800[14]	<20	<20	<20	<20	25,000
11/16/01		123.61	13.07		110.54	--	3,000	<1.0	1.1	<1.0	<3.0	16,000/19,000[15]
02/15/02		123.61	12.71		110.90	--	2,000	<0.50	<0.50	<0.50	<1.5	15,000/19,000[15]

Table 1

Groundwater Monitoring and Analytical Results

Chevron Service Station #9-8139

16304 Foothill Boulevard

San Leandro, California

WELL ID/ DATE	TOC* (ft.)	DTW (ft.)	S.I. (ft.bgs)	GWE (msl)	SPHT (ft.)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
MW-8 (cont)											
05/09/02	123.61	12.95	--	110.66	--	3,900	<1.0	<1.0	<1.0	<3.0	16,000/15,000[15]
08/05/02	123.61	13.51		110.10	--	4,000	<1.0	<1.0	<1.0	<3.0	16,000/15,000[15]
11/04/02	123.61	13.85		109.76	--	2,800	<0.50	0.77	<0.50	<1.5	15,000/17,000[15]
02/05/03	123.61	12.60		111.01	--	3,600	<20	<2.5	<2.5	<7.5	16,000/18,000[15]
05/07/03	123.61	12.00		111.61	--	2,800	<2.5	<2.5	<2.5	<7.5	14,000/13,000[15]
08/11/03[16]	123.61	13.12		110.49	--	2,400	<10	<10	<10	<10	13,000
11/10/03[16]	123.61	15.16		108.45	--	2,600	<10	<10	<10	<10	13,000
02/09/04[16,17]	123.61	13.16		110.45	--	<50	<0.5	<0.5	<0.5	<0.5	140
05/10/04[16]	123.61	12.75		110.86	--	1,900	<5	<5	<5	<5	12,000
08/09/04[16]	123.61	13.32		110.29	--	1,200	<10	<10	<10	<10	7,200
11/08/04[16]	123.61	13.50		110.11	--	710	<1	<1	<1	<1	3,900
02/07/05[16,17]	123.61	12.13		111.48	--	<50	<0.5	<0.5	<0.5	<0.5	12
05/06/05[16]	123.61	12.15		111.46	--	770	<5	<5	<5	<5	5,100
08/05/05[16]	123.61	13.49		110.12	--	660	<3	<3	<3	<3	3,600
11/04/05[16]	123.61	13.03		110.58	--	210	<0.5	<0.5	<0.5	<0.5	1,600
02/01/06[16]	123.61	11.22		112.39	--	170	<0.5	<0.5	<0.5	<0.5	1,800
05/03/06[16]	123.61	10.15		113.46	--	210	<1	<1	<1	<1	3,500
08/02/06[16]	123.61	11.81		111.80	--	480	<1	<1	<1	<1	3,800
10/31/06[16]	123.61	12.75		110.86	--	540	<0.5	<0.5	<0.5	<0.5	3,200
01/30/07[16]	123.61	12.81		110.80	--	<50	<0.5	<0.5	<0.5	<0.5	2
05/01/07[16]	123.61	12.60		111.01	--	500	<0.5	<0.5	<0.5	<0.5	2,300
07/31/07[16]	123.61	13.30		110.31	--	280	<0.5	<0.5	<0.5	<0.5	1,300
11/01/07[16]	123.61	13.72		109.89	--	160	<0.5	<0.5	<0.5	<0.5	940
02/12/08[16]	123.61	13.02		110.59	--	130	<0.5	<0.5	<0.5	<0.5	1,000
05/13/08[16]	123.61	13.11		110.50	--	460	<0.5	<0.5	<0.5	<0.5	3,300
08/19/08[16]	123.61	13.80		109.81	--	79	<1	<1	<1	<1	4,500
11/18/08[16]	123.61	13.71		109.90	--	860	<5	<5	<5	<5	5,000
03/13/09[16]	123.61	11.88		111.73	--	800	<1	<1	<1	<1	3,100
05/04/09	123.61	NOT MONITORED/SAMPLED			--	--	--	--	--	--	--
08/18/09	123.61	MONITORED/SAMPLED ANNUALLY				--	--	--	--	--	--
11/23/09	123.61	MONITORED/SAMPLED ANNUALLY				--	--	--	--	--	--
02/03/10[16]	123.61	11.84		111.77	--	830	<1	<1	<1	<1	3,900
08/23/10	**123.61**	**MONITORED/SAMPLED ANNUALLY**				--	--	--	--	--	--

Table 1

Groundwater Monitoring and Analytical Results

Chevron Service Station #9-8139

16304 Foothill Boulevard

San Leandro, California

WELL ID/ DATE	TOC* (ft.)	DTW (ft.)	S.I. (ft.bgs)	GWE (msl)	SPHT (ft.)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
MW-9											
08/22/91[3]	124.20	17.60	--	106.60	--	9,600	46	170	98	1,200	<0.05
11/14/91[3]	124.20	17.48		106.72	--	11,000	130	58	86	1,500	<0.05
01/30/92	124.20	16.71		107.49	--	11,000	210	29	110	1,900	--
04/23/92	124.20	15.23		108.97	--	17,000	180	25	100	1,900	--
07/27/92	124.20	16.72		107.48	--	2,800	59	1.6	18	280	--
10/26/92	124.20	17.22		106.98	--	3,200	38	<0.5	19	200	--
01/29/93	124.20	13.39		110.81	--	1,300	23	6.0	8.0	100	--
04/30/93	124.20	14.00		110.20	--	<1,300	<13	<13	<13	58	--
07/14/93	124.20	15.08		109.12	--	1,300	25	4.0	15	120	--
10/27/93	124.20	15.62		108.58	--	1,100	21	10	19	73	--
01/13/94	124.20	15.59		108.61	--	80	0.7	3.0	0.6	3.0	--
04/22/94	124.20	15.43		108.77	--	<50	<0.5	<0.5	<0.5	<0.5	--
07/29/94	124.20	15.20		109.00	--	1,400	19	11	11	69	--
10/25/94	124.20	15.70		108.50	--	1,200	11	2.0	7.6	28	--
01/19/95	124.20	12.58		111.62	--	380	1.6	4.3	1.5	11	--
05/01/95	124.20	11.96		112.24	--	350	1.1	<0.5	1.8	2.3	--
10/12/95	124.20	13.85		110.35	--	1,700	3.8	<2.5	5.3	7.8	18
04/11/96	124.20	11.87		112.33	--	140	<0.5	<0.5	<0.5	<0.5	2.8
10/03/96	124.20	14.07		110.13	--	53	<0.5	<0.5	<0.5	<0.5	<2.5
04/03/97	124.20	12.38		111.82	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
10/07/97	124.20	14.14		110.06	--	66	1.3	<0.5	<0.5	<0.5	<2.5
04/14/98	124.20	9.55		114.65	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
10/13/98	124.20	12.61		111.59	--	190	<0.5	<0.5	<0.5	<0.5	1,900
04/16/99	124.20	11.01		113.19	--	3,800	<12	<12	<12	<12	4,400
07/29/99[6]	124.20	12.85		111.35	--	--	--	--	--	--	--
10/26/99	124.20	13.24		110.96	--	88.6	<0.5	<0.5	<0.5	<0.5	530
04/07/00[9]	124.20	11.68		112.52	--	<5,000	<50	<50	<50	<50	27,000
10/10/00[9]	124.20	13.30		110.90	--	<50.0	<0.500	<0.500	<0.500	<0.500	322
04/03/01[9]	124.20	12.69		111.51	--	258	<0.500	<0.500	<0.500	0.743	1,300
08/14/01[13]	124.20	13.60		110.60	--	170[14]	<0.50	<0.50	<0.50	<0.50	1,300
11/16/01	124.20	13.81		110.39	--	100	<0.50	0.99	<0.50	<1.5	330/330[15]
02/15/02	124.20	13.32		110.88	--	<50	<0.50	<0.50	<0.50	<1.5	220/240[15]
05/09/02	124.20	13.50		110.70	--	300	<0.50	<0.50	<0.50	<1.5	970/940[15]
08/05/02	124.20	14.10		110.10	--	110	<0.50	<0.50	<0.50	<1.5	470/420[15]
11/04/02	124.20	14.41		109.79	--	110	<0.50	0.67	<0.50	<1.5	530/520[15]
02/05/03	124.20	13.17		111.03	--	70	<0.50	<0.50	<0.50	<1.5	320/340[15]

Table 1

Groundwater Monitoring and Analytical Results

Chevron Service Station #9-8139

16304 Foothill Boulevard

San Leandro, California

WELL ID/ DATE	TOC* (ft.)	DTW (ft.)	S.I. (ft.bgs)	GWE (msl)	SPHT (ft.)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
MW-9 (cont)											
05/07/03	124.20	12.65	--	111.55	--	87	<0.5	0.7	<0.5	<1.5	440/390[15]
08/11/03[16]	124.20	13.71		110.49	--	74	<0.5	<0.5	<0.5	<0.5	370
11/10/03[16]	124.20	14.27		109.93	--	53	<0.5	<0.5	<0.5	<0.5	190
02/09/04[16,17]	124.20	12.72		111.48	--	1,600	<5	<5	<5	<5	8,100
05/10/04[16]	124.20	13.35		110.85	--	<50	<0.5	<0.5	<0.5	<0.5	120
08/09/04[16]	124.20	13.95		110.25	--	<50	<0.5	<0.5	<0.5	<0.5	61
11/08/04[16]	124.20	14.11		110.09	--	<50	<0.5	<0.5	<0.5	<0.5	74
02/07/05[16,17]	124.20	11.69		112.51	--	600	<3	<3	<3	<3	3,200
05/06/05[16]	124.20	11.73		112.47	--	<50	<0.5	<0.5	<0.5	<0.5	45
08/05/05[16]	124.20	14.15		110.05	--	<50	<0.5	<0.5	<0.5	<0.5	1
11/04/05[16]	124.20	13.60		110.60	--	<50	<0.5	<0.5	<0.5	<0.5	130
02/01/06[16]	124.20	11.90		112.30	--	<50	<0.5	<0.5	<0.5	<0.5	27
05/03/06[16]	124.20	10.89		113.31	--	<50	<0.5	<0.5	<0.5	<0.5	82
08/02/06[16]	124.20	11.45		112.75	--	<50	<0.5	<0.5	<0.5	<0.5	85
10/31/06[16]	124.20	13.41		110.79	--	60	<0.5	<0.5	<0.5	<0.5	280
01/30/07[16]	124.20	13.46		110.74	--	<50	<0.5	<0.5	<0.5	<0.5	2
05/01/07[16]	124.20	13.16		111.04	--	140	<0.5	<0.5	<0.5	<0.5	480
07/31/07[16]	124.20	13.92		110.28	--	<50	<0.5	<0.5	<0.5	<0.5	3
11/01/07[16]	124.20	14.31		109.89	--	<50	<0.5	<0.5	<0.5	<0.5	170
02/12/08[16]	124.20	13.02		111.18	--	<50	<0.5	<0.5	<0.5	<0.5	56
05/13/08[16]	124.20	13.68		110.52	--	<50	<0.5	<0.5	1	3	35
08/19/08[16]	124.20	14.39		109.81	--	<50	<0.5	<0.5	<0.5	<0.5	29
11/18/08[16]	124.20	14.18		110.02	--	<50	<0.5	<0.5	<0.5	<0.5	45
03/13/09[16]	124.20	12.43		111.77	--	<50	<0.5	<0.5	<0.5	<0.5	23
05/04/09	124.20	13.45		110.75	--	--	--	--	--	--	--
08/18/09	124.20	14.51		109.69	--	--	--	--	--	--	--
MONITORING/SAMPLING DISCONTINUED											
MW-10											
07/27/92	125.03	17.52	--	107.51	--	<50	<0.5	<0.5	<0.5	<0.5	--
10/27/92	125.03	18.06		106.97	--	<50	<0.5	<0.5	<0.5	<0.5	--
01/29/93	125.03	14.15		110.88	--	<50	<0.5	<0.5	<0.5	0.7	--
04/30/93	125.03	14.68		110.35	--	<50	<0.5	<0.5	<0.5	<0.5	--
07/14/93	125.03	15.80		109.23	--	<50	<0.5	<0.5	<0.5	<0.5	--
10/27/93	125.03	16.33		108.70	--	<50	<0.5	<0.5	<0.5	<0.5	--
01/13/94	125.03	16.29		108.74	--	<50	<0.5	0.5	<0.5	<0.5	--

Table 1

Groundwater Monitoring and Analytical Results

Chevron Service Station #9-8139

16304 Foothill Boulevard

San Leandro, California

WELL ID/ DATE	TOC* (ft.)	DTW (ft.)	S.I. (ft.bgs)	GWE (msl)	SPHT (ft.)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
MW-10 (cont)											
04/22/94	125.03	16.15	--	108.88	--	<50	<0.5	<0.5	<0.5	1.1	--
07/29/94	125.03	15.85		109.18	--	<50	0.8	2.1	0.5	1.3	--
10/25/94	125.03	16.41		108.62	--	<50	<0.5	<0.5	<0.5	<0.5	--
01/19/95	125.03	13.29		111.74	--	<50	<0.5	<0.5	<0.5	<0.5	--
05/01/95	125.03	12.60		112.43	--	<50	<0.5	<0.5	<0.5	<0.5	--
10/11/95	125.03	14.54		110.49	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
04/11/96	125.03	12.47		112.56	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
10/03/96	125.03	14.74		110.29	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
04/03/97	125.03	12.99		112.04	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
10/07/97	125.03	14.86		110.17	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
04/14/98	125.03	10.24		114.79	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
10/13/98[7]	124.69	13.06		111.63	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
04/16/99	124.69	11.80		112.89	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
10/26/99	124.69	13.43		111.26	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
04/07/00	124.69	12.00		112.69	--	--	--	--	--	--	--
10/10/00	124.69	13.59		111.10	--	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50
04/03/01	124.69	13.00		111.69	--	<50.0	<0.500	<0.500	<0.500	0.580	<0.500
08/14/01	124.69	13.91		110.78	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
11/16/01	124.69	13.94		110.75	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<2[15]
02/15/02	124.69	13.65		111.04	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
05/09/02	124.69	13.87		110.82	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
08/05/02	124.69	14.45		110.24	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
11/04/02	124.69	14.77		109.92	--	<50	<0.50	1.2	<0.50	<1.5	<2.5/<2[15]
02/05/03	124.69	13.49		111.20	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
05/07/03	124.69	12.99		111.70	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5
08/11/03[16]	124.69	14.04		110.65	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
11/10/03[16]	124.69	15.54		109.15	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
02/09/04[16]	124.69	13.46		111.23	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
05/10/04[16]	124.69	13.69		111.00	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
08/09/04[16]	124.69	14.30		110.39	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
11/08/04[16]	124.69	14.45		110.24	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
02/07/05[16]	124.69	12.41		112.28	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
05/06/05[16]	124.69	12.35		112.34	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
08/05/05[16]	124.69	14.44		110.25	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
11/04/05	124.69	13.96		110.73	--	--	--	--	--	--	--
02/01/06	124.69	12.19		112.50	--	--	--	--	--	--	--

Table 1

Groundwater Monitoring and Analytical Results

Chevron Service Station #9-8139

16304 Foothill Boulevard

San Leandro, California

WELL ID/ DATE	TOC* (ft.)	DTW (ft.)	S.I. (ft.bgs)	GWE (msl)	SPHT (ft.)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
MW-10 (cont)											
05/03/06	124.69	11.25	--	113.44	--	--	--	--	--	--	--
08/02/06	124.69	12.42		112.27	--	--	--	--	--	--	--
10/31/06	124.69	13.72		110.97	--	--	--	--	--	--	--
01/30/07	124.69	13.80		110.89	--	--	--	--	--	--	--
05/01/07	124.69	13.50		111.19	--	--	--	--	--	--	--
07/31/07	124.69	13.97		110.72	--	--	--	--	--	--	--
11/01/07	124.69	14.66		110.03	--	--	--	--	--	--	--
02/12/08	124.69	12.90		111.79	--	--	--	--	--	--	--
05/13/08	124.69	13.99		110.70	--	--	--	--	--	--	--
08/19/08	124.69	14.71		109.98	--	--	--	--	--	--	--
08/19/08	124.69	14.51		110.18	--	--	--	--	--	--	--
03/13/09	124.69	11.87		112.82	--	--	--	--	--	--	--
05/04/09	124.69	13.58		111.11	--	--	--	--	--	--	--
08/18/09	124.69	14.84		109.85	--	--	--	--	--	--	--
MONITORING/SAMPLING DISCONTINUED											
MW-11											
07/27/92	122.92	15.38	--	107.54	--	<50	<0.5	<0.5	<0.5	<0.5	--
10/26/92	122.92	15.97		106.95	--	<50	<0.5	<0.5	<0.5	<0.5	--
01/29/93	122.92	12.24		110.68	--	<50	8.0	16	2.0	10	--
04/30/93	122.92	12.77		110.15	--	<50	<0.5	<0.5	<0.5	<0.5	--
07/14/93	122.92	13.84		109.08	--	<50	<0.5	0.7	<0.5	1.0	--
10/27/93	122.92	14.23		108.69	--	<50	<0.5	<0.5	<0.5	<0.5	--
01/13/94	122.92	14.24		108.68	--	<50	<0.5	1.0	<0.5	<0.5	--
04/22/94	122.92	14.08		108.84	--	<50	<0.5	0.5	<0.5	1.4	--
07/29/94	122.92	13.90		109.02	--	<50	<0.5	<0.5	<0.5	<0.5	--
10/25/94	122.92	14.38		108.54	--	<50	<0.5	<0.5	<0.5	<0.5	--
01/19/95	122.92	11.45		111.47	--	<50	<0.5	1.8	<0.5	<0.5	--
05/01/95	122.92	11.10		111.82	--	<50	<0.5	<0.5	<0.5	<0.5	--
10/11/95	122.92	12.57		110.35	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
04/11/96	122.92	11.05		111.87	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
10/03/96	122.92	12.92		110.00	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
04/03/97	122.92	11.22		111.70	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
10/07/97	122.92	13.05		109.87	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
04/14/98	122.92	9.05		113.87	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
10/13/98	122.92	12.34		110.58	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5

Table 1

Groundwater Monitoring and Analytical Results

Chevron Service Station #9-8139

16304 Foothill Boulevard

San Leandro, California

WELL ID/ DATE	TOC* (ft.)	DTW (ft.)	S.I. (ft.bgs)	GWE (msl)	SPHT (ft.)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
MW-11 (cont)											
04/16/99	122.92	10.73	--	112.19	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
10/26/99	122.92	11.97		110.95	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
04/07/00	122.92	10.90		112.02	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
10/10/00	122.92	12.09		110.83	--	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50
04/03/01	122.92	11.59		111.33	--	<50.0	<0.500	<0.500	<0.500	<0.500	<0.500
08/14/01	122.92	12.40		110.52	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
11/16/01	122.92	13.45		109.47	--	<50	<0.50	0.73	<0.50	<1.5	<2.5/<2[15]
02/15/02	122.92	12.24		110.68	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
05/09/02	122.92	12.44		110.48	--	<50	<0.50	1.0	<0.50	<1.5	<2.5
08/05/02	122.92	12.97		109.95	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
11/04/02	122.92	13.28		109.64	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<2[15]
02/05/03	122.92	12.07		110.85	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
05/07/03	122.92	11.58		111.34	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5
08/11/03[16]	122.92	12.61		110.31	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
11/10/03[16]	122.92	13.06		109.86	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
02/09/04[16]	122.92	12.04		110.88	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
05/10/04[16]	122.92	12.24		110.68	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
08/09/04[16]	122.92	12.85		110.07	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
11/08/04[16]	122.92	12.99		109.93	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
02/07/05[16]	122.92	11.87		111.05	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
05/06/05[16]	122.92	11.82		111.10	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
08/05/05[16]	122.92	12.98		109.94	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
11/04/05	122.92	12.50		110.42	--	--	--	--	--	--	--
02/01/06	122.92	10.75		112.17	--	--	--	--	--	--	--
05/03/06	122.92	10.22		112.70	--	--	--	--	--	--	--
08/02/06	122.92	11.91		111.01	--	--	--	--	--	--	--
10/31/06	122.92	12.28		110.64	--	--	--	--	--	--	--
01/30/07	122.92	12.25		110.67	--	--	--	--	--	--	--
05/01/07	122.92	12.08		110.84	--	--	--	--	--	--	--
07/31/07	122.92	12.57		110.35	--	--	--	--	--	--	--
11/01/07	122.92	13.20		109.72	--	--	--	--	--	--	--
02/12/08	122.92	11.55		111.37	--	--	--	--	--	--	--
05/13/08	122.92	12.63		110.29	--	--	--	--	--	--	--
08/19/08	122.92	13.26		109.66	--	--	--	--	--	--	--
11/18/08	122.92	13.10		109.82	--	--	--	--	--	--	--

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16304 Foothill Boulevard

San Leandro, California

WELL ID/ DATE	TOC* (ft.)	DTW (ft.)	S.I. (ft.bgs)	GWE (msl)	SPHT (ft.)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
MW-11 (cont)											
03/13/09	122.92	11.53	--	111.39	--	--	--	--	--	--	--
05/04/09	122.92	12.37		110.55	--	--	--	--	--	--	--
08/18/09	122.92	13.39		109.53	--	--	--	--	--	--	--
MONITORING/SAMPLING DISCONTINUED											
MW-12											
09/01/00[10]	--	11.69	10-28.5	--	--	--	--	--	--	--	--
10/10/00	--	12.13		--	--	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50
04/03/01	--	11.35		--	--	<50.0	<0.500	<0.500	<0.500	<0.500	<0.500
08/14/01	122.36	12.21		110.15	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
11/16/01	122.36	12.72		109.64	--	<50	<0.50	0.59	<0.50	<1.5	<2.5/<2[15]
02/15/02	122.36	11.98		110.38	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
05/09/02	122.36	12.17		110.19	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
08/05/02	122.36	12.69		109.67	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
11/04/02	122.36	12.98		109.38	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<2[15]
02/05/03	122.36	11.81		110.55	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
05/07/03	122.36	11.28		111.08	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5
08/11/03[16]	122.36	12.33		110.03	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
11/10/03[16]	122.36	12.77		109.59	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
02/09/04[16]	122.36	11.66		110.70	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
05/10/04[16]	122.36	11.90		110.46	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
08/09/04[16]	122.36	12.56		109.80	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
11/08/04[16]	122.36	12.70		109.66	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
02/07/05[16]	122.36	11.48		110.88	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
05/06/05[16]	122.36	11.41		110.95	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
08/05/05[16]	122.36	12.70		109.66	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
11/04/05	122.36	12.40		109.96	--	--	--	--	--	--	--
02/01/06[18]	122.36	10.69		111.67	--	--	--	--	--	--	--
05/03/06[16]	122.36	9.60		112.76	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
08/02/06	122.36	11.50		110.86	--	--	--	--	--	--	--
10/31/06	122.36	12.18		110.18	--	--	--	--	--	--	--
01/30/07[16]	122.36	12.12		110.24	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
05/01/07	122.36	11.90		110.46	--	--	--	--	--	--	--
07/31/07	122.36	12.26		110.10	--	--	--	--	--	--	--
11/01/07	122.36	12.88		109.48	--	SAMPLED ANNUALLY		--	--	--	--
02/12/08[16]	122.36	12.21		110.15	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5

Table 1

Groundwater Monitoring and Analytical Results

Chevron Service Station #9-8139

16304 Foothill Boulevard

San Leandro, California

WELL ID/ DATE	TOC* (ft.)	DTW (ft.)	S.I. (ft.bgs)	GWE (msl)	SPHT (ft.)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
MW-12 (cont)											
05/13/08	122.36	12.34	10-28.5	110.02	--	SAMPLED ANNUALLY		--	--	--	--
08/19/08	122.36	12.98		109.38	--	SAMPLED ANNUALLY		--	--	--	--
11/18/08	122.36	12.76		109.60	--	SAMPLED ANNUALLY		--	--	--	--
03/13/09[16]	122.36	11.15		111.21	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
05/04/09	122.36	12.08		110.28	--	SAMPLED ANNUALLY		--	--	--	--
08/18/09	122.36	13.09		109.27	--	SAMPLED ANNUALLY		--	--	--	--
11/23/09	122.36	12.84		109.52	--	SAMPLED ANNUALLY		--	--	--	--
02/03/10[16]	122.36	11.05		111.31	--	<50	<0.5	1	0.9	3	<0.5
08/23/10	**122.36**	**12.35**		**110.01**	**--**	**SAMPLED ANNUALLY**		**--**	**--**	**--**	**--**
MW-13											
09/01/00[10]	--	11.57	19-34	--	--	--	--	--	--	--	--
10/10/00	--	11.83		--	--	<50.0	<0.500	<0.500	<0.500	--	--
04/03/01	--	11.46		--	--	<50.0	<0.500	<0.500	<0.500	<0.500	<0.500
08/14/01	121.49	12.36		109.13	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
11/16/01	121.49	12.08		109.41	--	<50	<0.50	0.64	<0.50	<1.5	<2.5/<2[15]
02/15/02	121.49	11.81		109.68	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
05/09/02	121.49	12.00		109.49	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
08/05/02	121.49	12.48		109.01	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<2[15]
11/04/02	121.49	12.71		108.78	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<2[15]
02/05/03	121.49	11.51		109.98	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
05/07/03	121.49	10.81		110.68	--	<50	<0.5	0.6	<0.5	<1.5	<2.5
08/11/03[16]	121.49	12.15		109.34	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
11/10/03[16]	121.49	12.51		108.98	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
02/09/04[16]	121.49	11.56		109.93	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
05/10/04[16]	121.49	11.87		109.62	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
08/09/04[16]	121.49	12.37		109.12	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
11/08/04[16,17]	121.49	13.00		108.49	--	75	<0.5	<0.5	<0.5	<0.5	400
02/07/05[16]	121.49	10.49		111.00	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
05/06/05[16]	121.49	10.45		111.04	--	60	<1	<1	<1	<1	570
08/05/05[16]	121.49	12.50		108.99	--	<50	<0.5	<0.5	<0.5	<0.5	470
11/04/05	121.49	12.18		109.31	--	--	--	--	--	--	--
02/01/06	121.49	10.43		111.06	--	--	--	--	--	--	--
05/03/06	121.49	8.87		112.62	--	--	--	--	--	--	--
08/02/06	121.49	10.55		110.94	--	--	--	--	--	--	--

Table 1

Groundwater Monitoring and Analytical Results

Chevron Service Station #9-8139

16304 Foothill Boulevard

San Leandro, California

WELL ID/ DATE	TOC* (ft.)	DTW (ft.)	S.I. (ft.bgs)	GWE (msl)	SPHT (ft.)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
MW-13 (cont)											
10/31/06	121.49	11.95	19-34	109.54	--	--	--	--	--	--	--
01/30/07	121.49	11.90		109.59	--	--	--	--	--	--	--
05/01/07	121.49	11.65		109.84	--	--	--	--	--	--	--
07/31/07	121.49	12.08		109.41	--	--	--	--	--	--	--
11/01/07	121.49	13.19		108.30	--	--	--	--	--	--	--
02/12/08	121.49	10.64		110.85	--	--	--	--	--	--	--
05/13/08	121.49	11.88		109.61	--	--	--	--	--	--	--
08/19/08	121.49	12.69		108.80	--	--	--	--	--	--	--
11/18/08	121.49	12.55		108.94	--	--	--	--	--	--	--
03/13/09	121.49	10.55		110.94	--	--	--	--	--	--	--
05/04/09	121.49	11.92		109.57	--	--	--	--	--	--	--
08/18/09	121.49	12.81		108.68	--	--	--	--	--	--	--
MONITORING/SAMPLING DISCONTINUED											
MW-14											
09/01/00[10]	--	11.96	15-30	--	--	--	--	--	--	--	--
10/10/00	--	12.33		--	--	79.9[11]	<0.500	<0.500	<0.500	<0.500	854
04/03/01	--	11.62		--	--	494	<0.500	<0.500	<0.500	<0.500	3,150
08/14/01	122.04	12.55		109.49	--	<1,000	<10	<10	<10	<10	2,600
11/16/01	122.04	12.55		109.49	--	1,500	<0.50	0.84	<0.50	<1.5	7,800/8,200[15]
02/15/02	122.04	12.31		109.73	--	1,100	<0.50	<0.50	<0.50	<1.5	6,300/6,000[15]
05/09/02	122.04	12.52		109.52	--	1,500	<0.50	<0.50	<0.50	<1.5	6,900/6,300[15]
08/05/02	122.04	12.94		109.10	--	870	<0.50	<0.50	<0.50	<1.5	3,700/3,600[15]
11/04/02	122.04	13.17		108.87	--	890	<0.50	<0.50	<0.50	<1.5	4,400/4,700[15]
02/05/03	122.04	12.41		109.63	--	880	<0.50	<0.50	<0.50	<1.5	4,500/4,500[15]
05/07/03	122.04	11.50		110.54	--	530	<0.5	0.6	<0.5	<1.5	2,400/1,800[15]
08/11/03[16]	122.04	12.63		109.41	--	290	<1	<1	<1	<1	1,500
11/10/03[16]	122.04	13.06		108.98	--	360	<1	<1	<1	<1	1,700
02/09/04[16]	122.04	12.11		109.93	--	300	<1	<1	<1	<1	1,700
05/10/04[16]	122.04	12.38		109.66	--	130	<0.5	<0.5	<0.5	<0.5	630
08/09/04[16]	122.04	12.88		109.16	--	94	<1	<1	<1	<1	570
11/08/04[16,17]	122.04	12.49		109.55	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
02/07/05[16]	122.04	11.46		110.58	--	51	<0.5	<0.5	<0.5	<0.5	280
05/06/05[16]	122.04	11.39		110.65	--	<50	<0.5	<0.5	<0.5	<0.5	55
08/05/05[16]	122.04	12.97		109.07	--	<50	<0.5	<0.5	<0.5	<0.5	69

Table 1

Groundwater Monitoring and Analytical Results

Chevron Service Station #9-8139

16304 Foothill Boulevard

San Leandro, California

WELL ID/ DATE	TOC* (ft.)	DTW (ft.)	S.I. (ft.bgs)	GWE (msl)	SPHT (ft.)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
MW-14 (cont)											
11/04/05[16]	122.04	12.67	15-30	109.37	--	<50	<0.5	<0.5	<0.5	<0.5	32
02/01/06[16]	122.04	10.75		111.29	--	<50	<0.5	<0.5	<0.5	<0.5	34
05/03/06[16]	122.04	9.80		112.24	--	<50	<0.5	<0.5	<0.5	<0.5	260
08/02/06[16]	122.04	11.48		110.56	--	<50	<0.5	<0.5	<0.5	<0.5	74
10/31/06[16]	122.04	12.50		109.54	--	<50	<0.5	<0.5	<0.5	<0.5	6
01/30/07[16]	122.04	12.57		109.47	--	<50	<0.5	<0.5	<0.5	<0.5	4
05/01/07[16]	122.04	12.15		109.89	--	<50	<0.5	<0.5	<0.5	<0.5	3
07/31/07[16]	122.04	12.75		109.29	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
11/01/07[16]	122.04	12.71		109.33	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
02/12/08[16]	122.04	11.37		110.67	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
05/13/08[16]	122.04	12.67		109.37	--	<50	<0.5	<0.5	<0.5	<0.5	14
08/19/08[16]	122.04	13.15		108.89	--	140	<0.5	<0.5	<0.5	<0.5	1,000
11/18/08[16]	122.04	13.03		109.01	--	<50	<0.5	<0.5	<0.5	<0.5	140
03/13/09[16]	122.04	11.37		110.67	--	<50	<0.5	<0.5	<0.5	<0.5	150
05/04/09[16]	122.04	12.41		109.63	--	93	<0.5	<0.5	<0.5	<0.5	590
08/18/09[16]	122.04	13.30		108.74	--	66	<0.5	<0.5	<0.5	<0.5	360
11/23/09[16]	122.04	13.08		108.96	--	<50	<0.5	<0.5	<0.5	<0.5	110
02/03/10[16]	122.04	11.21		110.83	--	<50	<0.5	<0.5	<0.5	<0.5	160
08/23/10[16]	**122.04**	**12.96**		**109.08**	**--**	**100**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**640**
EW-2											
08/01/91	125.79	18.07	--	107.72	--	--	--	--	--	--	--
04/22/94	125.79	--		--	--	<50	<0.5	<0.5	<0.5	<0.5	--
10/25/94	125.79	16.69		109.10	--	--	--	--	--	--	--
01/19/95	125.79	12.20		113.59	--	1,700	540	69	56	400	--
05/01/95	125.79	12.16		113.63	--	<50	13	<0.5	<0.5	2.1	--
04/16/99	125.79	10.04		115.75	--	3,500	350	160	130	550	3,800
07/29/99	125.79	INACCESSIBLE		--	--	--	--	--	--	--	--
10/26/99	125.79	13.82		111.97	--	2,760	20.6	17.8	40.2	196	13,300
04/07/00	125.79	10.94		114.85	--	4,100[8]	480	21	310	560	6,800
10/10/00	125.79	13.32		112.47	--	3,010[12]	14.4	<5.00	61.0	28.2	15,700
04/03/01	125.79	12.57		113.22	--	2,870	11.2	5.63	50.2	35.3	5,140
08/14/01	125.52	14.31		111.21	--	<5,000	<50	<50	<50	<50	16,000
11/16/01	125.52	14.21		111.31	--	2,300	3.2	0.58	13	6.3	4,100/5,300[15]
02/15/02	125.52	13.74		111.78	--	3,500	26	<0.50	74	33	6,900/8,200[15]

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16304 Foothill Boulevard

San Leandro, California

WELL ID/ DATE	TOC* (ft.)	DTW (ft.)	S.I. (ft.bgs)	GWE (msl)	SPHT (ft.)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
EW-2 (cont)											
05/09/02	125.52	13.98	--	111.54	--	3,900	11	<0.50	14	2.5	24,000/22,000[15]
08/05/02	125.52	14.11		111.41	--	3,600	<20	<1.0	20	6.5	15,000/14,000[15]
11/04/02	125.52	14.97		110.55	--	3,100	7.1	<1.0	1.4	2.1	5,400/5,600[15]
02/05/03	125.52	13.41		112.11	--	1,300	4.7	<2.0	0.65	<1.5	1,600/1,700[15]
05/07/03	125.52	12.61		112.91	--	1,200	3.6	<2.0	6.5	2.5	1,900/2,400[15]
08/11/03[16]	125.52	13.95		111.57	--	980	<0.5	<0.5	0.5	<0.5	350
11/10/03[16]	125.52	13.93		111.59	--	1,700	<0.5	<0.5	3	<0.5	1,500
02/09/04[16]	125.52	13.59		111.93	--	1,100	<0.5	<0.5	<0.5	<0.5	840
05/10/04[16]	125.52	13.32		112.20	--	1,100	<2	<2	<2	<2	3,800
08/09/04[16]	125.52	14.05		111.47	--	930	<5	<5	<5	<5	3,000
11/08/04[16]	125.52	14.31		111.21	--	1,200	<0.5	<0.5	0.5	<0.5	240
02/07/05[16]	125.52	12.72		112.80	--	510	<0.5	<0.5	<0.5	<0.5	390
05/06/05[16]	125.52	13.02		112.50	--	890	<1	<1	<1	<1	430
08/05/05[16]	125.52	14.23		111.29	--	1,300	1	<0.5	2	<0.5	1,300
11/04/05[16]	125.52	13.86		111.66	--	1,000	<0.5	<0.5	<0.5	<0.5	1,200
02/01/06[16]	125.52	11.75		113.77	--	700	<0.5	<0.5	<0.5	<0.5	1,400
05/03/06[16]	125.52	8.00		117.52	--	1,200	2	<0.5	<0.5	<0.5	440
08/02/06[16]	125.52	11.45		114.07	--	1,000	<0.5	<0.5	<0.5	<0.5	350
10/31/06[16]	125.52	13.70		111.82	--	1,200	<0.5	<0.5	3	3	910
01/30/07[16]	125.52	13.78		111.74	--	200	<0.5	<0.5	<0.5	<0.5	330
05/01/07[16]	125.52	13.40		112.12	--	510	<0.5	<0.5	<0.5	<0.5	690
07/31/07[16]	125.52	14.03		111.49	--	1,100	<0.5	<0.5	0.6	<0.5	860
11/01/07[16]	125.52	14.54		110.98	--	1,700	<0.5	<0.5	0.6	<0.5	760
02/12/08[16]	125.52	12.31		113.21	--	510	<0.5	<0.5	<0.5	<0.5	110
05/13/08[16]	125.52	13.96		111.56	--	740	<0.5	<0.5	<0.5	<0.5	310
08/19/08[16]	125.52	14.81		110.71	--	860	<0.5	<0.5	<0.5	<0.5	430
11/18/08[16]	125.52	14.15		111.37	--	980	<0.5	<0.5	<0.5	<0.5	210
03/13/09[16]	125.52	12.45		113.07	--	380	<0.5	<0.5	<0.5	<0.5	26
05/04/09[16]	125.52	13.13		112.39	--	730	<0.5	<0.5	<0.5	<0.5	170
08/18/09[16]	125.52	14.82		110.70	--	760	<0.5	<0.5	<0.5	<0.5	57
11/23/09	125.52	13.46		112.06	--	SAMPLED SEMI-ANNUALLY			--	--	--
02/03/10[16]	125.52	10.71		114.81	--	280	<0.5	<0.5	<0.5	<0.5	14
08/23/10[16]	**125.52**	**13.48**		**112.04**	--	**550**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**170**

Table 1

Groundwater Monitoring and Analytical Results

Chevron Service Station #9-8139

16304 Foothill Boulevard

San Leandro, California

WELL ID/ DATE	TOC* (ft.)	DTW (ft.)	S.I. (ft.bgs)	GWE (msl)	SPHT (ft.)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
EW-3											
08/01/91	125.22	17.49	--	107.73	--	--	--	--	--	--	--
10/27/93	125.22	--		--	--	<50	<0.5	<0.5	<0.5	<0.5	--
01/13/94	125.22	--		--	--	<50	<0.5	<0.5	<0.5	<0.5	--
04/22/94	125.22	--		--	--	<50	<0.5	<0.5	<0.5	<0.5	--
07/29/94	125.22	--		--	--	<50	1.3	1.3	0.6	5.3	--
10/25/94	125.22	16.20		109.02	--	--	--	--	--	--	--
01/19/95	125.22	12.71		112.51	--	240	45	0.8	22	48	--
04/03/97	125.22	12.33		112.89	--	450	140	<1.2	4.3	3.9	17
10/07/97	125.22	14.58		110.64	--	1,900	510	<5.0	26	8.7	12
04/14/98	125.22	INACCESSIBLE		--	--	--	--	--	--	--	--
10/13/98	125.22	12.48		112.74	--	1,500	130	<2.5	9.0	4.7	3,600
04/16/99	125.22	11.55		113.67	--	3,800	280	37	270	300	2,800
07/29/99	125.22	INACCESSIBLE		--	--	--	--	--	--	--	--
10/26/99	125.22	13.49		111.73	--	710	204	2.87	7.31	11.8	3,760
04/07/00	125.22	11.41		113.81	--	1,100[8]	30	<5.0	20	48	2,800
10/10/00	125.22	13.55		111.67	--	119[12]	2.77	<0.500	4.65	2.77	172
04/03/01	125.22	12.73		112.49	--	1,910	22.3	7.23	136	116	16.1
08/14/01	125.21	13.98		111.23	--	1,900[8]	130	<5.0	39	84	710
11/16/01	125.21	14.03		111.18	--	8,800	110	20	530	840	99/99[15]
02/15/02	125.21	13.51		111.70	--	1,300	18	1.1	33	27	600/600[15]
05/09/02	125.21	13.75		111.46	--	740	22	<0.50	15	10	390/360[15]
08/05/02	125.21	14.28		110.93	--	8,200	77	21	480	710	<20
11/04/02	125.21	14.92		110.29	--	4,300	45	2.9	110	83	<2.5/<2[15]
02/05/03	125.21	13.34		111.87	--	1,800	45	1.7	32	16	<20
05/07/03	125.21	12.87		112.34	--	860	14	<2.0	5.3	1.6	180/170[15]
08/11/03[16]	125.21	13.86		111.35	--	2,500	7	5	190	130	0.7
11/10/03[16]	125.21	14.53		110.68	--	1,600	14	1	43	10	0.8
02/09/04[16]	125.21	13.44		111.77	--	550	1	<0.5	0.6	<0.5	<0.5
05/10/04[16]	125.21	13.49		111.72	--	170	<0.5	<0.5	<0.5	<0.5	2
08/09/04[16]	125.21	14.08		111.13	--	710	14	<0.5	8	6	190
11/08/04[16]	125.21	14.37		110.84	--	3,300	10	2	280	19	<0.5
02/07/05[16]	125.21	12.47		112.74	--	400	<0.5	<0.5	<0.5	<0.5	<0.5
05/06/05[16]	125.21	12.87		112.34	--	590	0.6	0.5	9	21	<0.5
08/05/05[16]	125.21	14.27		110.94	--	1,700	2	2	97	34	5
11/04/05[16]	125.21	13.79		111.42	--	1,700	4	2	150	170	0.8
02/01/06[16]	125.21	11.68		113.53	--	85	<0.5	<0.5	<0.5	<0.5	5

Table 1

Groundwater Monitoring and Analytical Results

Chevron Service Station #9-8139
16304 Foothill Boulevard
San Leandro, California

WELL ID/ DATE	TOC* (ft.)	DTW (ft.)	S.I. (ft.bgs)	GWE (msl)	SPHT (ft.)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
EW-3 (cont)											
05/03/06[16]	125.21	10.34	--	114.87	--	560	4	<0.5	7	4	43
08/02/06[16]	125.21	12.27		112.94	--	1,000	2	<0.5	10	11	10
10/31/06[16]	125.21	13.57		111.64	--	9,000	15	6	540	460	12
01/30/07[16]	125.21	13.65		111.56	--	720	2	<0.5	4	<0.5	<0.5
05/01/07[16]	125.21	13.22		111.99	--	220	<0.5	<0.5	<0.5	<0.5	3
07/31/07[16]	125.21	13.80		111.41	--	11,000	4	2	650	700	<1
11/01/07[16]	125.21	14.59		110.62	--	2,300	0.7	<0.5	98	76	0.5
02/12/08[16]	125.21	12.60		112.61	--	860	<0.5	<0.5	1	3	<0.5
05/13/08[16]	125.21	13.91		111.30	--	1,000	0.7	<0.5	2	<0.5	<0.5
08/19/08[16]	125.21	14.42		110.79	--	5,500	1	0.7	380	430	<0.5
11/18/08[16]	125.21	14.28		110.93	--	9,300	1	0.6	380	420	<0.5
03/13/09[16]	125.21	12.73		112.48	--	520	<0.5	<0.5	3	<0.5	<0.5
05/04/09[16]	125.21	13.42		111.79	--	1,300	0.9	<0.5	43	7	<0.5
08/18/09[16]	125.21	14.61		110.60	--	7,600	0.7	<0.5	210	240	<0.5
11/23/09	125.21	13.89		111.32	--	SAMPLED SEMI-ANNUALLY			--	--	--
02/03/10[16]	125.21	12.08		113.13	--	370	<0.5	<0.5	7	2	<0.5
08/23/10[16]	**125.21**	**13.77**		**111.44**	--	**520**	**<0.5**	**<0.5**	**4**	**0.7**	**<0.5**
MW-1											
12/05/89[1,3]	127.09	--	--	--	--	<500	<0.5	<0.5	<0.5	<0.5	<0.5
03/23/90	127.09	12.92		114.17	--	--	--	--	--	--	--
05/24/90	127.09	--		--	--	<50	<0.5	<0.5	<0.5	<0.5	--
09/06/90[3]	127.09	14.68		112.41	--	<50	<0.5	0.8	<0.5	<0.5	<0.5
09/25/90	127.09	15.01		112.08	--	--	--	--	--	--	--
11/29/90	127.09	14.82		112.27	--	<50	0.7	0.9	<0.5	1.0	--
02/20/91	127.09	14.29		112.80	--	<50	<0.5	<0.5	<0.5	<0.5	--
04/19/91	127.09	12.16		114.93	--	--	--	--	--	--	--
05/22/91	127.09	13.69		113.40	--	<50	<0.5	<0.5	<0.5	<0.5	--
08/22/91	127.09	15.38		111.71	--	<50	<0.5	<0.5	<0.5	<0.5	--
11/13/91	127.09	15.80		111.29	--	<50	<0.5	<0.5	<0.5	<0.5	--
01/30/92	127.09	14.71		112.38	--	<50	0.5	<0.5	<0.5	0.5	--
04/23/92	127.09	12.22		114.87	--	<50	<0.5	<0.5	<0.5	<0.5	--
07/27/92	127.09	14.30		112.79	--	<50	<0.5	<0.5	<0.5	<0.5	--
10/26/92	127.09	15.90		111.19	--	<50	0.6	<0.5	<0.5	<0.5	--
01/29/93	127.09	10.51		116.58	--	<50	3.0	3.0	0.7	3.0	--

Table 1

Groundwater Monitoring and Analytical Results

Chevron Service Station #9-8139

16304 Foothill Boulevard

San Leandro, California

WELL ID/ DATE	TOC* (ft.)	DTW (ft.)	S.I. (ft.bgs)	GWE (msl)	SPHT (ft.)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
MW-1 (cont)											
04/30/93	127.09	9.90	--	117.19	--	<50	<0.5	0.7	<0.5	1.0	--
07/14/93	127.09	12.28		114.81	--	<50	0.7	1.0	<0.5	3.0	--
10/27/93	127.09	15.53		111.56	--	<50	0.9	2.0	<0.5	2.0	--
01/13/94	127.09	12.24		114.85	--	<50	<0.5	0.9	<0.5	<0.5	--
04/22/94	127.09	12.91		114.18	--	<50	1.1	2.6	1.0	5.5	--
07/29/94	127.09	12.75		114.34	--	<50	<0.5	0.9	<0.5	<0.5	--
10/25/94	127.09	13.63		113.46	--	100	0.6	1.6	<0.5	4.1	--
01/19/95	127.09	9.93		117.16	--	<50	<0.5	<0.5	<0.5	<0.5	--
ABANDONED											
MW-2											
12/05/89[1,3]	--	--	--	--	--	<500	<0.5	<0.5	<0.5	0.9	<0.5
03/23/90	125.98	12.40		113.58	--	--	--	--	--	--	--
05/24/90	125.98	--		--	--	<50	<0.5	<0.5	<0.5	<0.5	--
09/06/90[3]	125.98	14.85		111.13	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
09/25/90	125.98	14.80		111.18	--	--	--	--	--	--	--
11/29/90	125.98	14.40		111.58	--	<50	<0.5	<0.5	<0.5	<0.5	--
02/20/91	125.98	14.09		111.89	--	<50	<0.5	<0.5	<0.5	<0.5	--
04/19/91	125.98	12.62		113.36	--	--	--	--	--	--	--
05/22/91	125.98	12.98		113.00	--	<50	<0.5	<0.5	<0.5	<0.5	--
11/13/91	125.98	15.42		110.56	--	58	<0.5	0.5	0.7	2.3	--
01/30/92	125.98	14.70		111.28	--	<50	<0.5	<0.5	<0.5	<0.5	--
04/23/92	125.98	13.83		112.15	--	<50	<0.5	<0.5	<0.5	<0.5	--
07/27/92	125.98	15.30		110.68	--	<50	<0.5	<0.5	<0.5	1.1	--
10/26/92	125.98	15.62		110.36	--	<50	<0.5	<0.5	<0.5	<0.5	--
01/29/93	125.98	9.26		116.72	--	<50	3.0	8.0	1.0	5.0	--
04/30/93	125.98	9.66		116.32	--	<1,300	<13	<13	<13	<13	--
07/14/93	125.98	11.90		114.08	--	<50	0.8	2.0	0.8	4.0	--
10/27/93	125.98	13.49		112.49	--	<50	1.0	2.0	1.0	2.0	--
01/13/94	125.98	11.99		113.99	--	<50	<0.5	0.6	<0.5	<0.5	--
04/22/94	125.98	12.73		113.25	--	<50	0.6	<0.5	<0.5	1.7	--
07/29/94	125.98	12.30		113.68	--	<50	<0.5	0.9	<0.5	<0.5	--
10/25/94	125.98	13.39		112.59	--	<50	<0.5	0.8	<0.5	2.1	--
01/19/95	125.98	8.71		117.27	--	<50	<0.5	2.3	<0.5	<0.5	--
ABANDONED											

Table 1

Groundwater Monitoring and Analytical Results

Chevron Service Station #9-8139

16304 Foothill Boulevard

San Leandro, California

WELL ID/ DATE		TOC* (ft.)	DTW (ft.)	S.I. (ft.bgs)	GWE (msl)	SPHT (ft.)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
MW-3												
12/05/89[2,3]		--	--	--	--	--	24,000	2,400	1,800	360	2,600	<0.5
12/05/89[3]	(D)		--		--	--	24,000	2,500	1,900	390	2,600	<0.5
03/23/90		127.84	17.50		110.34	--	--	--	--	--	--	--
05/24/90		127.84	--		--	--	9,000	2,600	1,700	250	1,500	--
05/24/90	(D)	127.84	--		--	--	10,000	2,600	1,800	260	1,600	--
09/06/90[3]		126.77	18.72		108.05	--	3,500	900	550	110	460	<0.5
09/25/90		126.77	18.40		108.37	--	--	--	--	--	--	--
11/29/90		126.77	18.97		107.80	--	9,200	1,100	1,100	210	1,100	--
02/20/91		126.77	19.20		107.57	--	8,800	960	780	200	920	--
04/19/91		126.77	17.81		108.96	--	--	--	--	--	--	--
05/22/91		126.77	17.88		108.89	--	28,000	5,800	1,200	460	2,300	--
08/01/91		126.77	19.23		107.54	--	--	--	--	--	--	--
08/22/91		126.77	20.17		106.60	--	21,000	3,100	2,000	480	2,000	--
08/22/91	(D)	126.77	--		--	--	19,000	2,700	1,800	420	1,700	--
11/13/91		126.77	19.95		106.82	--	18,000	2,400	1,200	450	2,200	--
01/30/92		126.77	19.14		107.63	--	18,000	3,800	920	700	2,600	--
04/23/92		126.77	17.75		109.02	--	46,000	5,000	1,900	1,000	3,500	--
07/27/92		126.77	19.00		107.77	--	26,000	4,900	1,100	1,200	3,600	--
10/26/92		126.77	19.62		107.15	--	6,600	1,100	41	220	570	--
01/29/93		126.77	15.95		110.82	--	32,000	5,900	2,900	1,300	5,000	--
04/30/93		126.77	15.67		111.10	--	14,000	6,100	98	870	2,400	--
07/14/93		126.77	16.83		109.94	--	12,000	3,100	1,100	720	2,900	--
10/27/93		126.77	17.70		109.07	--	19,000	7,800	400	1,500	3,400	--
01/13/94		126.77	16.54		110.23	--	51,000	3,700	140	720	1,800	--
04/22/94		126.77	17.02		109.75	--	22,000	9,300	89	1,200	2,400	--
07/29/94		126.77	16.95		109.82	--	13,000	4,700	44	580	420	--
10/25/94		126.77	17.66		109.11	--	24,000	8,700	52	1,500	1,400	--
01/19/95		126.77	13.87		112.90	--	17,000	9,300	36	1,600	740	--
10/12/95		126.77	14.23		112.54	--	37,000	12,000	180	1,800	1,500	13,000
04/11/96		126.77	11.04		115.73	--	19,000	2,400	81	1,400	1,500	6,800
10/03/96		126.77	14.62		112.15	--	--	--	--	--	--	--
ABANDONED												

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Groundwater Monitoring and Analytical Results

Chevron Service Station #9-8139

16304 Foothill Boulevard

San Leandro, California

WELL ID/ DATE		TOC* (ft.)	DTW (ft.)	S.I. (ft.bgs)	GWE (msl)	SPHT (ft.)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
MW-4												
12/05/89[3]		--	--	--	--	--	19,000	390	1,300	460	1,800	<0.5
03/23/90		125.22	16.02		109.20	--	--	--	--	--	--	--
05/24/90		125.22	--		--	--	4,500	210	440	140	480	--
09/06/90[3]		125.22	17.35		107.87	--	6,000	680	520	170	580	<0.5
09/25/90		125.22	17.48		107.74	--	--	--	--	--	--	--
11/29/90		125.22	17.61		107.61	--	15,000	800	1,000	430	1,700	--
02/20/91		125.22	17.81		107.41	--	15,000	640	390	420	1,600	--
02/20/91	(D)	125.22	--		--	--	15,000	680	410	430	1,600	--
04/19/91		125.22	15.80		109.42	--	--	--	--	--	--	--
05/22/91		125.22	16.68		108.54	--	9,800	580	140	310	740	--
05/22/91	(D)	125.22	--		--	--	7,200	520	130	270	670	--
REDESIGNATED EW-3												
MW-5												
03/23/90		125.85	16.89	--	108.96	--	--	--	--	--	--	--
05/25/90[4]		125.85	--		--	--	28,000	920	1,100	460	1,300	2.4
09/07/90		125.85	18.46		107.42	0.04	--	--	--	--	--	--
09/25/90		125.85	18.87		108.02	1.30	--	--	--	--	--	--
11/29/90		125.85	18.91		107.51	0.71	--	--	--	--	--	--
02/20/91		125.85	16.99		109.24	0.47	--	--	--	--	--	--
04/19/91		125.85	19.30		106.93	0.48	--	--	--	--	--	--
05/22/91		125.85	17.69		108.42	0.33	--	--	--	--	--	--
REDESIGNATED EW-2												
MW-6												
03/23/90		124.18	18.51	--	105.67	--	--	--	--	--	--	--
05/25/90[5]		124.18	--		--	--	<50	<2.0	<3.0	<3.0	<3.0	<0.02
09/07/90[3]		124.18	16.18		108.00	--	<50	<2.0	<3.0	<3.0	<3.0	<0.05
09/25/90		124.18	16.42		107.76	--	--	--	--	--	--	--
11/29/90[3]		124.18	16.11		108.07	--	<50	<0.5	<0.5	<0.5	<0.5	<0.05
02/20/91		124.18	16.09		108.09	--	<50	<0.5	<0.5	<0.5	<0.5	--
04/19/91		124.18	15.15		109.03	--	--	--	--	--	--	--
05/22/91		124.18	15.41		108.77	--	<50	0.5	0.7	<0.5	1.1	--
08/23/91		124.18	17.80		106.38	--	<50	<0.5	<0.5	<0.5	<0.5	--
11/14/91[5]		124.18	16.52		107.66	--	<50	<0.5	<0.5	<0.5	<0.5	<0.02
11/14/91[3]	(D)	124.18	--		--	--	<50	<0.5	0.6	<0.5	1.1	<0.05

Table 1

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Chevron Service Station #9-8139

16304 Foothill Boulevard

San Leandro, California

WELL ID/ DATE		TOC* (ft.)	DTW (ft.)	S.I. (ft.bgs)	GWE (msl)	SPHT (ft.)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
MW-6 (cont)												
01/31/92		124.18	16.48	--	107.70	--	<50	<0.5	<0.5	<0.5	<0.5	--
01/31/92	(D)	124.18	--		--	--	<50	<0.5	<0.5	<0.5	<0.5	--
04/23/92		124.18	16.20		107.98	--	<50	<0.5	<0.5	<0.5	<0.5	--
04/23/92	(D)	124.18	--		--	--	--	--	--	--	--	--
07/27/92		124.18	16.52		107.66	--	<50	1.2	0.6	<0.5	1.9	--
10/26/92		124.18	17.12		107.06	--	<50	<0.5	<0.5	<0.5	<0.5	--
01/29/93		124.18	13.13		111.05	--	<50	<0.5	<0.5	<0.5	<0.5	--
04/30/93		124.18	14.86		109.32	--	<50	<0.5	<0.5	<0.5	0.6	--
07/14/93		124.18	14.61		109.57	--	<50	<0.5	<0.5	<0.5	<0.5	--
10/27/93		124.18	15.38		108.80	--	<50	0.9	1.0	0.6	1.0	--
01/13/94		124.18	15.34		108.84	--	<50	<0.5	<0.5	<0.5	<0.5	--
04/22/94		124.18	15.07		109.11	--	<50	<0.5	<0.5	<0.5	2.5	--
07/29/94		124.18	15.30		108.88	--	<50	7.5	1.2	1.0	1.1	--
10/25/94		124.18	15.69		108.49	--	<50	<0.5	<0.5	<0.5	1.2	--
01/19/95		124.18	11.49		112.69	--	<50	<0.5	3.1	<0.5	0.6	--
10/11/95		124.18	14.16		110.02	--	--	--	--	--	--	--
11/07/95		124.18	14.30		109.88	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
04/11/96		124.18	10.63		113.55	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
10/03/96		124.18	13.34		110.84	--	--	--	--	--	--	--
ABANDONED												
MW-7												
03/23/90		126.86	21.40	--	105.46	--	--	--	--	--	--	--
05/25/90[5]		126.86	--		--	--	<50	<2.0	<3.0	<3.0	<3.0	<0.02
09/07/90		126.86	18.38		108.48	--	--	--	--	--	--	--
09/25/90		126.86	19.25		107.61	--	--	--	--	--	--	--
09/27/90[3]		126.86	--		--	--	<50	<2.0	<3.0	<3.0	<3.0	<0.05
09/27/90[3]	(D)	126.86	--		--	--	<50	<2.0	<3.0	<3.0	<3.0	<0.05
11/29/90		126.86	18.55		108.31	--	<50	<0.5	<0.5	<0.5	<0.5	--
02/20/91		126.86	18.55		108.31	--	<50	<0.5	<0.5	<0.5	<0.5	--
04/19/91		126.86	17.33		109.53	--	--	--	--	--	--	--
05/22/91		126.86	17.42		109.44	--	<50	<0.5	<0.5	<0.5	<0.5	--
08/22/91		126.86	19.05		107.81	--	<50	<0.5	<0.5	<0.5	<0.5	--
11/13/91		126.86	21.84		105.02	--	<50	<0.5	<0.5	<0.5	<0.5	--
01/30/92		126.86	22.42		104.44	--	<50	<0.5	<0.5	<0.5	<0.5	--
04/23/92		126.86	22.04		104.82	--	<50	<0.5	<0.5	<0.5	<0.5	--

Table 1

Groundwater Monitoring and Analytical Results

Chevron Service Station #9-8139

16304 Foothill Boulevard

San Leandro, California

WELL ID/ DATE	TOC* (ft.)	DTW (ft.)	S.I. (ft.bgs)	GWE (msl)	SPHT (ft.)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
MW-7 (cont)											
07/27/92	126.86	22.24	--	104.62	--	<50	<0.5	<0.5	<0.5	<0.5	--
10/26/92	126.86	22.11		104.75	--	<50	<0.5	<0.5	<0.5	<0.5	--
01/29/93	126.86	17.07		109.79	--	<50	4.0	13	2.0	8.0	--
04/30/93	126.86	14.86		112.00	--	<50	<0.5	<0.5	<0.5	0.6	--
07/14/93	126.86	16.10		110.76	--	<50	<0.5	1.0	<0.5	2.0	--
10/27/93	126.86	18.71		108.15	--	<50	<0.5	<0.5	<0.5	<0.5	--
01/13/94	126.86	17.89		108.97	--	<50	<0.5	0.9	<0.5	1.0	--
04/22/94	126.86	16.94		109.92	--	<50	<0.5	<0.5	<0.5	1.3	--
07/29/94	126.86	16.70		110.16	--	74	19	8.2	7.8	11	--
10/25/94	126.86	17.42		109.44	--	<50	<0.5	0.6	<0.5	1.6	--
01/19/95	126.86	13.66		113.20	--	<50	<0.5	1.4	<0.5	<0.5	--
ABANDONED											
EW-1											
05/25/90	--	--	--	--	--	3,900	260	430	64	340	0.03
08/01/91	124.95	17.54		107.41	--	--	--	--	--	--	--
10/27/93	124.95	--		--	--	350	<0.5	<0.5	<0.5	<0.5	--
01/13/94	124.95	--		--	--	<50	<0.5	<0.5	<0.5	<0.5	--
04/22/94	124.95	--		--	--	<50	<0.5	<0.5	<0.5	<0.5	--
07/29/94	124.95	--		--	--	97	0.6	0.5	0.6	5.1	--
01/19/95	124.95	12.63		112.32	--	3,000	1,600	100	350	760	--
ABANDONED											
TRIP BLANK											
TB-LB											
02/20/91	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
05/22/91	--	--		--	--	<50	<0.5	<0.5	<0.5	<0.5	--
05/22/91	--	--		--	--	<50	<0.5	<0.5	<0.5	<0.5	--
11/13/91	--	--		--	--	<50	<0.5	<0.5	<0.5	<0.5	--
01/30/92	--	--		--	--	<50	<0.5	<0.5	<0.5	<0.5	--
04/23/92	--	--		--	--	<50	<0.5	<0.5	<0.5	<0.5	--
07/27/92	--	--		--	--	<0.5	<0.5	<0.5	<0.5	<0.5	--
10/26/92	--	--		--	--	<0.5	<0.5	<0.5	<0.5	<0.5	--
01/29/93	--	--		--	--	<50	<0.5	<0.5	<0.5	<0.5	--
04/30/93	--	--		--	--	<50	<0.5	<0.5	<0.5	<0.5	--

Table 1

Groundwater Monitoring and Analytical Results

Chevron Service Station #9-8139

16304 Foothill Boulevard

San Leandro, California

WELL ID/ DATE	TOC* (ft.)	DTW (ft.)	S.I. (ft.bgs)	GWE (msl)	SPHT (ft.)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
TRIP BLANK (cont)											
07/14/93	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
10/27/93	--	--		--	--	<50	<0.5	<0.5	<0.5	<0.5	--
01/13/94	--	--		--	--	<50	<0.5	<0.5	<0.5	<0.5	--
04/22/94	--	--		--	--	<50	<0.5	<0.5	<0.5	<0.5	--
07/29/94	--	--		--	--	<50	<0.5	<0.5	<0.5	<0.5	--
10/25/94	--	--		--	--	<50	<0.5	<0.5	<0.5	<0.5	--
01/19/95	--	--		--	--	<50	<0.5	<0.5	<0.5	<0.5	--
05/01/95	--	--		--	--	<50	<0.5	<0.5	<0.5	<0.5	--
10/12/95	--	--		--	--	<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
10/03/96	--	--		--	--	<50	<0.5	<0.5	<0.5	<0.5	--
04/03/97	--	--		--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
10/07/97	--	--		--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
04/14/98	--	--		--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
10/13/98	--	--		--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
04/16/99	--	--		--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
04/07/00	--	--		--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
10/10/00	--	--		--	--	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50
04/03/01	--	--		--	--	<50.0	<0.500	<0.500	<0.500	<0.500	<0.500
08/14/01	--	--		--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
QA											
11/16/01	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
02/15/02	--	--		--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
05/09/02	--	--		--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
08/05/02	--	--		--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
11/04/02	--	--		--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
02/05/03	--	--		--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
05/07/03	--	--		--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5
08/11/03[16]	--	--		--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
11/10/03[16]	--	--		--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
02/09/04[16]	--	--		--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
05/10/04[16]	--	--		--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
08/09/04[16]	--	--		--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
11/08/04[16]	--	--		--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
02/07/05[16]	--	--		--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
05/06/05[16]	--	--		--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5

Table 1

Groundwater Monitoring and Analytical Results

Chevron Service Station #9-8139

16304 Foothill Boulevard

San Leandro, California

WELL ID/ DATE	TOC* (ft.)	DTW (ft.)	S.I. (ft.bgs)	GWE (msl)	SPHT (ft.)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
QA (cont)											
08/05/05[16]	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
11/04/05[16]	--	--		--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
02/01/06[16]	--	--		--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
05/03/06[16]	--	--		--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
08/02/06[16]	--	--		--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
10/31/06[16]	--	--		--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
01/30/07[16]	--	--		--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
05/01/07[16]	--	--		--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
07/31/07[16]	--	--		--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
11/01/07[16]	--	--		--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
02/12/08[16]	--	--		--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
05/13/08[16]	--	--		--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
08/19/08[16]	--	--		--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
11/18/08[16]	--	--		--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
03/13/09[16]	--	--		--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
05/04/09[16]	--	--		--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
08/18/09[16]	--	--		--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
DISCONTINUED											

Table 1

Groundwater Monitoring and Analytical Results

Chevron Service Station #9-8139

16304 Foothill Boulevard

San Leandro, California

EXPLANATIONS:

Groundwater monitoring data and laboratory analytical results prior to April 7, 2000, were compiled from reports prepared by Blaine Tech Services, Inc.

TOC = Top of Casing
(ft.) = Feet
DTW = Depth to Water
S.I. = Screen Interval
(ft.bgs) = Feet Below Ground Surface
GWE = Groundwater Elevation
(msl) = Mean sea level
SPHT = Separate Phase Hydrocarbon Thickness

(TPH-D) = Total Petroleum Hydrocarbons as Diesel
TPH = Total Petroleum Hydrocarbons
GRO = Gasoline Range Organics
B = Benzene
T = Toluene
E = Ethylbenzene
X = Xylenes
EDB = 1,2-Dibromoethane

MTBE = Methyl Tertiary Butyl Ether
(µg/L) = Micrograms per liter
(ppb) = Parts per billion
-- = Not Measured/Not Analyzed
(D) = Duplicate
ND = Not Detected
QA = Quality Assurance/Trip Blank

* TOC elevations were surveyed on September 16, 2000, by Virgil Chavez Land Surveying. The benchmark used for the survey was a copper disc set in the top of headwall on the east side of Foothill, approximately 158 feet south of Miramar Avenue, stamped EBMUD 17B, (Benchmark Elev. = 127.162 feet, NAVD 29).

1 Total Petroleum Hydrocarbons as Diesel (TPH-D) was ND with a detection limit of 1,000 ppb and Total Oil and Grease (TOG) was ND with a detection limit of 5,000 ppb.
2 TOG was ND with a detection limit of 5,000 ppb.
3 Ethylene dibromide (EDB) was detected at <0.05 ppb.
4 EDB was detected at 2.4 ppb.
5 EDB was detected at <0.02 ppb.
6 ORC installed.
7 TOC altered due to wellhead maintenance.
8 Laboratory report indicates gasoline C6-C12.
9 ORC in well.
10 Well development performed.
11 Laboratory report indicates unidentified hydrocarbons C6-C8.
12 Laboratory report indicates weathered gasoline C6-C12.
13 ORC removed from well.
14 Laboratory report indicates unidentified hydrocarbons C6-C12.
15 MTBE by EPA Method 8260.
16 BTEX and MTBE by EPA Method 8260.
17 Current laboratory analytical results do not coincide with historical data, and although the laboratory results were confirmed; it appears that the samples were switched.
18 Due to an oversight; this well was not sampled.

Table 2

Groundwater Analytical Results - Oxygenate Compounds

Chevron Service Station #9-8139

16304 Foothill Boulevard

San Leandro, California

WELL ID	DATE	ETHANOL (µg/L)	TBA (µg/L)	MTBE (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)
MW-8	11/04/02	--	250	17,000	<3.0	<3.0	2,600	<3.0	<3.0
	02/05/03	--	--	18,000	--	--	--	--	--
	05/07/03	--	--	13,000	--	--	--	--	--
	08/11/03	<1,000	<100	13,000	<10	<10	2,200	<10	<10
	11/10/03[1]	--	--	13,000	--	--	--	--	--
	02/09/04[2]	<50	<5	140	<0.5	<0.5	22	<0.5	<0.5
	05/10/04	<500	<50	12,000	<5	<5	1,900	<5	<5
	08/09/04	<1,000	<100	7,200	<10	<10	1,100	<10	<10
	11/08/04	<130	<13	3,900	<1	<1	540	<1	<1
	02/07/05[2]	<50	<5	12	<0.5	<0.5	2	<0.5	<0.5
	05/06/05	<500	<50	5,100	<5	<5	740	<5	<5
	08/05/05	<250	<25	3,600	<3	<3	510	<3	<3
	11/04/05	--	<5	1,600	--	--	210	--	--
	02/01/06	--	86	1,800	--	--	260	--	--
	05/03/06	--	40	3,500	--	--	500	--	--
	08/02/06	--	<10	3,800	--	--	460	--	--
	10/31/06	--	<5	3,200	--	--	440	--	--
	01/30/07	--	<2	2	--	--	<0.5	--	--
	05/01/07	--	<2	2,300	--	--	380	--	--
	07/31/07	--	6	1,300	--	--	180	--	--
	11/01/07	--	<2	940	--	--	170	--	--
	02/12/08	--	6	1,000	--	--	160	--	--
	05/13/08	--	<2	3,300	--	--	450	--	--
	08/19/08	--	8	4,500	--	--	700	--	--
	11/18/08	--	<20	5,000	--	--	700	--	--
	03/13/09	--	58	3,100	--	--	550	--	--
	05/04/09	SAMPLED ANNUALLY		--	--	--	--	--	--
	02/03/10	--	840	3,900	--	--	500	--	--
MW-9	11/04/02	--	<100	520	<2	<2	88	<2	<2
	02/05/03	--	--	340	--	--	--	--	--
	05/07/03	--	--	390	--	--	--	--	--
	08/11/03	<50	<5	370	<0.5	<0.5	69	<0.5	<0.5
	11/10/03[1]	--	--	190	--	--	--	--	--
	02/09/04[2]	<500	<50	8,100	<5	<5	1,400	<5	<5
	05/10/04	<50	<5	120	<0.5	<0.5	14	<0.5	<0.5
	08/09/04	<50	<5	61	<0.5	<0.5	7	<0.5	<0.5

Table 2

Groundwater Analytical Results - Oxygenate Compounds

Chevron Service Station #9-8139
16304 Foothill Boulevard
San Leandro, California

WELL ID	DATE	ETHANOL (µg/L)	TBA (µg/L)	MTBE (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)
MW-9 (cont)	11/08/04	<50	<5	74	<0.5	<0.5	9	<0.5	<0.5
	02/07/05[2]	<250	<25	3,200	<3	<3	520	<3	<3
	05/06/05	<50	<5	45	<0.5	<0.5	6	<0.5	<0.5
	08/05/05	<50	<5	1	<0.5	<0.5	<0.5	<0.5	<0.5
	11/04/05	--	<5	130	--	--	15	--	--
	02/01/06	--	<5	27	--	--	0.9	--	--
	05/03/06	--	<5	82	--	--	12		
	08/02/06	--	<5	85	--	--	12	--	--
	10/31/06	--	<5	280	--	--	54	--	--
	01/30/07	--	<2	2	--	--	<0.5	--	--
	05/01/07	--	<2	480	--	--	120	--	--
	07/31/07	--	<2	3	--	--	<0.5	--	--
	11/01/07	--	<2	170	--	--	41	--	--
	02/12/08	--	<2	56	--	--	11	--	--
	05/13/08	--	<2	35	--	--	5	--	--
	08/19/08	--	<2	29	--	--	5	--	--
	11/18/08	--	<2	45	--	--	7	--	--
	03/13/09	--	<2	23	--	--	4	--	--
	05/04/09	NOT SAMPLED	--	--	--	--	--	--	--
	MONITORING/SAMPLING DISCONTINUED								
MW-10	11/04/02	--	<100	<2	<2	<2	<2	<2	<2
	08/11/03	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	11/10/03[1]	--	--	<0.5	--	--	--	--	--
	02/09/04	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	05/10/04	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	08/09/04	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	11/08/04	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	02/07/05	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	05/06/05	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	08/05/05	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	MONITORING/SAMPLING DISCONTINUED								
MW-11	11/04/02	--	<100	<2	<2	<2	<2	<2	<2
	08/11/03	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	11/10/03[1]	--	--	<0.5	--	--	--	--	--
	02/09/04	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	05/10/04	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

Table 2

Groundwater Analytical Results - Oxygenate Compounds

Chevron Service Station #9-8139

16304 Foothill Boulevard

San Leandro, California

WELL ID	DATE	ETHANOL (µg/L)	TBA (µg/L)	MTBE (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)
MW-11 (cont)	08/09/04	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	11/08/04	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	02/07/05	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	05/06/05	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	08/05/05	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	MONITORING/SAMPLING DISCONTINUED								
MW-12	11/04/02	--	<100	<2	<2	<2	<2	<2	<2
	08/11/03	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	11/10/03[1]	--	--	<0.5	--	--	--	--	--
	02/09/04	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	05/10/04	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	08/09/04	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	11/08/04	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	02/07/05	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	05/06/05	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	08/05/05	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	02/01/06[3]	--	--	--	--	--	--	--	--
	05/03/06	--	<5	<0.5	--	--	<0.5	--	--
	01/30/07	--	<2	<0.5	--	--	<0.5	--	--
	11/01/07	SAMPLED ANNUALLY		--	--	--	--	--	--
	02/12/08	--	<2	<0.5	--	--	<0.5	--	--
	03/13/09	--	<2	<0.5	--	--	<0.5	--	--
	02/03/10	--	<2	<0.5	--	--	<0.5	--	--
MW-13	11/04/02	--	<100	<2	<2	<2	<2	<2	<2
	08/11/03	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	11/10/03[1]	--	--	<0.5	--	--	--	--	--
	02/09/04	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	05/10/04	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	08/09/04	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	11/08/04	<50	<5	400	<0.5	<0.5	59	<0.5	<0.5
	02/07/05	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	05/06/05	<100	<10	570	<1	<1	48	<1	<1
	08/05/05	<50	<5	470	<0.5	<0.5	52	<0.5	<0.5
	MONITORING/SAMPLING DISCONTINUED								

Table 2

Groundwater Analytical Results - Oxygenate Compounds

Chevron Service Station #9-8139

16304 Foothill Boulevard

San Leandro, California

WELL ID	DATE	ETHANOL (µg/L)	TBA (µg/L)	MTBE (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)
MW-14	11/04/02	--	<100	4,700	<2	<2	680	<2	<2
	02/05/03	--	--	4,500	--	--	--	--	--
	05/07/03	--	--	1,800	--	--	--	--	--
	08/11/03	<100	<10	1,500	<1	<1	270	<1	<1
	11/10/03[1]	--	--	1,700	--	--	--	--	--
	02/09/04	<100	<10	1,700	<1	<1	230	<1	<1
	05/10/04	<50	<5	630	<0.5	<0.5	96	<0.5	<0.5
	08/09/04	<100	<10	570	<1	<1	76	<1	<1
	11/08/04	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	02/07/05	<50	<5	280	<0.5	<0.5	41	<0.5	<0.5
	05/06/05	<50	<5	55	<0.5	<0.5	6	<0.5	<0.5
	08/05/05	<50	<5	69	<0.5	<0.5	8	<0.5	<0.5
	11/04/05	--	<5	32	--	--	4	--	--
	02/01/06	--	<5	34	--	--	3	--	--
	05/03/06	--	<5	260	--	--	34	--	--
	08/02/06	--	<5	74	--	--	8	--	--
	10/31/06	--	<5	6	--	--	<0.5	--	--
	01/30/07	--	<2	4	--	--	<0.5	--	--
	05/01/07	--	<2	3	--	--	<0.5	--	--
	07/31/07	--	<2	<0.5	--	--	<0.5	--	--
	11/01/07	--	<2	<0.5	--	--	<0.5	--	--
	02/12/08	--	<2	<0.5	--	--	<0.5	--	--
	05/13/08	--	<2	14	--	--	2	--	--
	08/19/08	--	<2	1,000	--	--	160	--	--
	11/18/08	--	<2	140	--	--	19	--	--
	03/13/09	--	<2	150	--	--	18	--	--
	05/04/09	--	<2	590	--	--	83	--	--
	08/18/09	--	<2	360	--	--	50	--	--
	11/23/09	--	<2	110	--	--	15	--	--
	02/03/10	--	18	160	--	--	24	--	--
	08/23/10	--	**<2**	**640**	--	--	**110**	--	--
EW-2	11/04/02	--	550	5,600	<2.0	<2.0	850	<2.0	<2.0
	02/05/03	--	--	1,700	--	--	--	--	--
	05/07/03	--	--	2,400	--	--	--	--	--
	08/11/03	<50	47	350	<0.5	<0.5	120	<0.5	<0.5
	11/10/03[1]	--	--	1,500	--	--	--	--	--

Table 2

Groundwater Analytical Results - Oxygenate Compounds

Chevron Service Station #9-8139
16304 Foothill Boulevard
San Leandro, California

WELL ID	DATE	ETHANOL (µg/L)	TBA (µg/L)	MTBE (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)
EW-2 (cont)	02/09/04	<50	110	840	<0.5	<0.5	250	<0.5	<0.5
	05/10/04	<200	300	3,800	<2	<2	640	<2	<2
	08/09/04	<500	<50	3,000	<5	<5	480	<5	<5
	11/08/04	<50	33	240	<0.5	<0.5	110	<0.5	<0.5
	02/07/05	<50	42	390	<0.5	<0.5	140	<0.5	<0.5
	05/06/05	<100	120	430	<1	<1	160	<1	<1
	08/05/05	<50	360	1,300	<0.5	<0.5	390	<0.5	<0.5
	11/04/05	--	210	1,200	--	--	340	--	--
	02/01/06	--	130	1,400	--	--	290	--	--
	05/03/06	--	260	440	--	--	120	--	--
	08/02/06	--	120	350	--	--	76	--	--
	10/31/06	--	130	910	--	--	210	--	--
	01/30/07	--	13	330	--	--	46	--	--
	05/01/07	--	44	690	--	--	130	--	--
	07/31/07	--	100	860	--	--	200	--	--
	11/01/07	--	120	760	--	--	200	--	--
	02/12/08	--	8	110	--	--	27	--	--
	05/13/08	--	35	310	--	--	70	--	--
	08/19/08	--	59	430	--	--	120	--	--
	11/18/08	--	29	210	--	--	49	--	--
	03/13/09	--	5	26	--	--	7	--	--
	05/04/09	--	31	170	--	--	44	--	--
	08/18/09	--	10	57	--	--	13	--	--
	11/23/09	SAMPLED SEMI-ANNUALLY		--	--	--	--	--	--
	02/03/10	--	<2	14	--	--	2	--	--
	08/23/10	--	**34**	**170**	--	--	**37**	--	--
EW-3	11/04/02	--	<100	<2	<2	<2	<2	<2	<2
	05/07/03	--	--	170	--	--	--	--	--
	08/11/03	<50	<5	0.7	<0.5	<0.5	<0.5	<0.5	<0.5
	11/10/03[1]	--	--	0.8	--	--	--	--	--
	02/09/04	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	05/10/04	<50	<5	2	<0.5	<0.5	0.6	<0.5	<0.5
	08/09/04	<50	<5	190	<0.5	<0.5	51	<0.5	<0.5
	11/08/04	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	02/07/05	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	05/06/05	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

Table 2

Groundwater Analytical Results - Oxygenate Compounds

Chevron Service Station #9-8139

16304 Foothill Boulevard

San Leandro, California

WELL ID	DATE	ETHANOL (µg/L)	TBA (µg/L)	MTBE (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)
EW-3 (cont)	08/05/05	<50	<5	5	<0.5	<0.5	0.7	<0.5	<0.5
	11/04/05	--	<5	0.8	--	--	<0.5	--	--
	02/01/06	--	<5	5	--	--	0.6	--	--
	05/03/06	--	<5	43	--	--	10	--	--
	08/02/06	--	<5	10	--	--	1	--	--
	10/31/06	--	<5	12	--	--	2	--	--
	07/31/07	--	<4	<1	--	--	<1	--	--
	01/30/07	--	<2	<0.5	--	--	<0.5	--	--
	05/01/07	--	<2	3	--	--	<0.5	--	--
	11/01/07	--	<2	0.5	--	--	<0.5	--	--
	02/12/08	--	<2	0.5	--	--	0.5	--	--
	05/13/08	--	<2	<0.5	--	--	<0.5	--	--
	08/19/08	--	<2	<0.5	--	--	<0.5	--	--
	11/18/08	--	<2	<0.5	--	--	<0.5	--	--
	03/13/09	--	<2	<0.5	--	--	<0.5	--	--
	05/04/09	--	<2	<0.5	--	--	<0.5	--	--
	08/18/09	--	5	<0.5	--	--	<0.5	--	--
	11/23/09	SAMPLED SEMI-ANNUALLY		--	--	--	--	--	--
	02/03/10	--	<2	<0.5	--	--	<0.5	--	--
	08/23/10	**--**	**<2**	**<0.5**	**--**	**--**	**<0.5**	**--**	**--**

Table 2

Groundwater Analytical Results - Oxygenate Compounds

Chevron Service Station #9-8139

16304 Foothill Boulevard

San Leandro, California

EXPLANATIONS:

TBA = t-Butyl alcohol

MTBE = Methyl Tertiary Butyl Ether

DIPE = di-Isopropyl ether

ETBE = Ethyl t-butyl ether

TAME = t-Amyl methyl ether

1,2-DCA = 1,2-Dichloroethane

EDB = 1,2-Dibromoethane

(µg/L) = Micrograms per liter

-- = Not Analyzed

ANALYTICAL METHOD:

EPA Method 8260 for Oxygenate Compounds

[1] Analysis inadvertently omitted.

[2] Current laboratory analytical results do not coincide with historical data, and although the laboratory results were confirmed; it appears that the samples were switched.

[3] Due to an oversight; this well was not sampled.

STANDARD OPERATING PROCEDURE - GROUNDWATER SAMPLING

Gettler-Ryan Inc. (GR) field personnel adhere to the following procedures for the collection and handling of groundwater samples prior to analysis by the analytical laboratory. All work is performed in accordance with the GR Health & Safety Plan and all client-specific programs. The scope of work and type of analysis to be performed is determined prior to commencing field work.

Prior to sampling, the presence or absence of free-phase hydrocarbons is determined using an interface probe. Product thickness, if present, is measured to the nearest 0.01 foot and is noted in the field notes. In addition, all depth to water level measurements are collected with a static water level indicator and are also recorded in the field notes, prior to purging and sampling any wells.

After water levels are collected and prior to sampling, if purging is to occur, each well is purged a minimum of three well casing volumes of water using pre-cleaned pumps (stack, peristaltic or Grundfos), or disposable bailers. Temperature, pH and electrical conductivity are measured a minimum of three times during the purging (additional parameters such as dissolved oxygen, oxidation reduction potential, turbidity may also be measured, depending on specific scope of work.). Purging continues until these parameters stabilize.

Groundwater samples are collected using disposable bailers. The water samples are transferred from the bailer into appropriate containers. Pre-preserved containers, supplied by analytical laboratories, are used. When pre-preserved containers are not available, the laboratory is instructed to preserve the sample as appropriate. Duplicate samples are collected for the laboratory to use in maintaining quality assurance/quality control standards, as directed by the scope of work. The samples are labeled to include the job number, sample identification, collection date and time, analysis, preservation (if any), and the sample collector's initials. The water samples are placed in a cooler, maintained at 4°C for transport to the laboratory. Once collected in the field, all samples are maintained under chain of custody until delivered to the laboratory.

The chain of custody document includes the job number, type of preservation, if any, analysis requested, sample identification, date and time collected, and the sample collector's name. The chain of custody is signed and dated (including time of transfer) by each person who receives or surrenders the samples, beginning with the field personnel and ending with the laboratory personnel.

A laboratory supplied trip blank accompanies each sampling set. The trip blank is analyzed for some or all of the same compounds as the groundwater samples.

As requested by Chevron Environmental Management Company, the purge water and decontamination water generated during sampling activities is transported by IWM to Chemical Waste Management located in Kettleman Hills, California.

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: **Chevron #9-8139** Job Number: **386461**

Site Address: **16304 Foothill Blvd.** Event Date: 8/23/10 (inclusive)

City: **San Leandro, CA** Sampler: KE

Well ID MW-12 Date Monitored: 8/23/10

Well Diameter 2 4 in.

Total Depth 28.10 ft.

Depth to Water 12.35 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

☐ Check if water column is less then 0.50 ft.

15.75 xVF _____ = _____ x3 case volume = Estimated Purge Volume: _____ gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: _____

Purge Equipment:

Disposable Bailer _____
Stainless Steel Bailer _____
Stack Pump _____
Suction Pump _____
Grundfos _____
Peristaltic Pump _____
QED Bladder Pump _____
Other: _____

Sampling Equipment:

Disposable Bailer _____
Pressure Bailer _____
Discrete Bailer _____
Peristaltic Pump _____
QED Bladder Pump _____
Other: _____

Time Started: _____ (2400 hrs)
Time Completed: _____ (2400 hrs)
Depth to Product: _____ ft
Depth to Water: _____ ft
Hydrocarbon Thickness: _____ ft
Visual Confirmation/Description: _____
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: _____ gal
Amt Removed from Well: _____ gal
Water Removed: _____
Product Transferred to: _____

Start Time (purge): _____ Weather Conditions: _____

Sample Time/Date: _____ / _____ Water Color: _____ Odor: Y / N _____

Approx. Flow Rate: _____ gpm. Sediment Description: _____

Did well de-water? _____ If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: _____

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm or µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX+MTBE(8260)/ TAME+TBA (8260)

COMMENTS: m/o

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Add/Replaced Bolt: _____

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #9-8139 Job Number: 386461
Site Address: 16304 Foothill Blvd. Event Date: 8/23/10 (inclusive)
City: San Leandro, CA Sampler: KE

Well ID MW-14 Date Monitored: 8/23/10
Well Diameter (2) 4 in.
Total Depth 26.41 ft.
Depth to Water 12.96 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

☐ Check if water column is less then 0.50 ft.

13.45 xVF .17 = 2.2 x3 case volume = Estimated Purge Volume: 6.8 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 15.65

Purge Equipment:
Disposable Bailer ✓
Stainless Steel Bailer
Stack Pump
Suction Pump
Grundfos
Peristaltic Pump
QED Bladder Pump
Other:

Sampling Equipment:
Disposable Bailer ✓
Pressure Bailer
Discrete Bailer
Peristaltic Pump
QED Bladder Pump
Other:

Time Started: (2400 hrs)
Time Completed: (2400 hrs)
Depth to Product: ft
Depth to Water: ft
Hydrocarbon Thickness: ft
Visual Confirmation/Description:
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: gal
Amt Removed from Well: gal
Water Removed:
Product Transferred to:

Start Time (purge): 0845 Weather Conditions: Sunny
Sample Time/Date: 0910 / 8/23/10 Water Color: Cloudy Odor: Y / (N)
Approx. Flow Rate: — gpm. Sediment Description: Light
Did well de-water? no If yes, Time: — Volume: — gal. DTW @ Sampling: 13.10

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm (µS))	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
0850	2.5	7.33	605	22.0		
0855	5	7.24	1612	21.3		
0859	7	7.19	1620	20.9		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-14	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX+MTBE(8260)/ TAME+TBA (8260)

COMMENTS:

Add/Replaced Lock: X Add/Replaced Plug: 2 Add/Replaced Bolt:

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: **Chevron #9-8139** Job Number: **386461**
Site Address: **16304 Foothill Blvd.** Event Date: 8/23/10 (inclusive)
City: **San Leandro, CA** Sampler: KE

Well ID Ew-2 Date Monitored: 8/23/10
Well Diameter 2 (4) in.
Total Depth 30.29 ft.
Depth to Water 13.48 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

☐ Check if water column is less then 0.50 ft.

16.81 xVF .66 = 11. x3 case volume = Estimated Purge Volume: 33.2 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 16.84

Purge Equipment:
Disposable Bailer
Stainless Steel Bailer
Stack Pump ✓
Suction Pump
Grundfos
Peristaltic Pump
QED Bladder Pump
Other:

Sampling Equipment:
Disposable Bailer ✓
Pressure Bailer
Discrete Bailer
Peristaltic Pump
QED Bladder Pump
Other:

Time Started: (2400 hrs)
Time Completed: (2400 hrs)
Depth to Product: ft
Depth to Water: ft
Hydrocarbon Thickness: ft
Visual Confirmation/Description:
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: gal
Amt Removed from Well: gal
Water Removed:
Product Transferred to:

Start Time (purge): 1005 Weather Conditions: Sunny
Sample Time/Date: 1040 / 8/23/10 Water Color: Clear Odor: (Y) N Slight
Approx. Flow Rate: 2 gpm. Sediment Description: Clear
Did well de-water? yes If yes, Time: 1013 Volume: 16 gal. DTW @ Sampling: 16.84

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm (µS))	Temperature (C F)	D.O. (mg/L)	ORP (mV)
1010	10	7.47	627	22.1		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
Ew2	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX+MTBE(8260)/ TAME+TBA (8260)

COMMENTS:

Add/Replaced Lock: X Add/Replaced Plug: 411 Add/Replaced Bolt:

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #9-8139 Job Number: 386461
Site Address: 16304 Foothill Blvd. Event Date: 8/23/10 (inclusive)
City: San Leandro, CA Sampler: KE

Well ID EW-3 Date Monitored: 8/23/10
Well Diameter 2 (4) in.
Total Depth 30.12 ft.
Depth to Water 13.77 ft. ☐ Check if water column is less then 0.50 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

16.35 xVF .606 = 10.7 x3 case volume = Estimated Purge Volume: 32.3 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 17.04

Purge Equipment:
Disposable Bailer
Stainless Steel Bailer
Stack Pump ✓
Suction Pump
Grundfos
Peristaltic Pump
QED Bladder Pump
Other:

Sampling Equipment:
Disposable Bailer ✓
Pressure Bailer
Discrete Bailer
Peristaltic Pump
QED Bladder Pump
Other:

Time Started: (2400 hrs)
Time Completed: (2400 hrs)
Depth to Product: ft
Depth to Water: ft
Hydrocarbon Thickness: ft
Visual Confirmation/Description:
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: gal
Amt Removed from Well: gal
Water Removed:
Product Transferred to:

Start Time (purge): 0925 Weather Conditions: Sunny
Sample Time/Date: 0950 / 8/23/10 Water Color: Cloudy Odor: (Y) / N Slight
Approx. Flow Rate: 2 gpm. Sediment Description: light
Did well de-water? Yes If yes, Time: 0932 Volume: 14 gal. DTW @ Sampling: 17.04

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm (µS))	Temperature (C) / F	D.O. (mg/L)	ORP (mV)
0930	10	7.86	462	20.6		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
EW-3	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX+MTBE(8260)/ TAME+TBA (8260)

COMMENTS:

Add/Replaced Lock: X Add/Replaced Plug: 411 Add/Replaced Bolt:

Chevron California Region Analysis Request/Chain of Custody

Lancaster Laboratories

082610-02

For Lancaster Laboratories use only
Acct. #: 12099 Sample # 6071137-39 Group #: 018617

CRA MTI Project #: 61H-1971

Grp # 1209393

Facility #: SS#9-8139 G-R#386461 Global ID#T0600100303
Site Address: 16304 FOOTHILL BLVD., SAN LEANDRO, CA
Chevron PM: MTI Lead Consultant: CRAKJ Kiernan
Consultant/Office: G-R, Inc., 6747 Sierra Court, Suite J, Dublin, CA 94568
Consultant Prj. Mgr.: Deanna L. Harding (deanna@grinc.com)
Consultant Phone #: 925-551-7555 Fax #: 925-551-7899
Sampler: KyleErdland

Sample Identification	Date Collected	Time Collected	Grab	Composite	Matrix: Soil	Matrix: Water	Matrix: Oil	Matrix: Air	Total Number of Containers	BTEX + MTBE 8260 ☒ 8021 ☐ (H)	TPH 8015 MOD GRO (H)	TPH 8015 MOD DRO ☐ Silica Gel Cleanup	8260 full scan	Oxygenates	Total Lead	Method	Dissolved Lead	Method	TAME + TBA (8260) (H)
MW-14	8/23/10	0910	X			X			6	X	X								X
EW-2		1040	X			X			6	X	X								X
EW-3	↓	0950	X			X			6	X	X								X

Analyses Requested

Preservation Codes

Preservative Codes
H = HCl T = Thiosulfate
N = HNO_3 B = NaOH
S = H_2SO_4 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

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
EDF/EDD

	Date	Time		Date	Time
Relinquished by:	8/24/10	1430	Received by: GETTLER-RYAN FRIDGE	08-24-10	1430
Relinquished by:	08-26-10	1115	Received by:	8/26/10	1115
Relinquished by:	26 AUG 10	1630	Received by: FEDEX		
Relinquished by Commercial Carrier: UPS FedEx Other			Received by:	8/27/10	0900
Temperature Upon Receipt 0.9-3.4 C°			Custody Seals Intact? Yes No		

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

Chevron c/o CRA
Suite 110
2000 Opportunity Drive
Roseville CA 95678

September 02, 2010

Project: 98139

Submittal Date: 08/27/2010
Group Number: 1209393
PO Number: 98139
Release Number: MTI
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
MW-14-W-100823 Grab Water	6071137
EW-2-W-100823 Grab Water	6071138
EW-3-W-100823 Grab Water	6071139

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	Gettler-Ryan, Inc.	Attn: Rachelle Munoz
ELECTRONIC COPY TO	Chevron c/o CRA	Attn: Report Contact

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Jill M Parker at (717) 656-2300 Ext. 1241

Respectfully Submitted,

Robin C. Runkle
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: MW-14-W-100823 Grab Water
Facility# 98139 Job# 386461 MTI# 61H-1971 GRD
16304 Foothill-San Leandr T0600100303 MW-14

LLI Sample # WW 6071137
LLI Group # 1209393
Account # 12099

Project Name: 98139

Collected: 08/23/2010 09:10 by KE

Submitted: 08/27/2010 09:00
Reported: 09/02/2010 09:14
Discard: 10/03/2010

Chevron c/o CRA
Suite 110
2000 Opportunity Drive
Roseville CA 95678

RSL14

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l	ug/l	
10943	t-Amyl methyl ether	994-05-8	110	0.5	1
10943	Benzene	71-43-2	N.D.	0.5	1
10943	t-Butyl alcohol	75-65-0	N.D.	2	1
10943	Ethylbenzene	100-41-4	N.D.	0.5	1
10943	Methyl Tertiary Butyl Ether	1634-04-4	640	0.5	1
10943	Toluene	108-88-3	N.D.	0.5	1
10943	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Volatiles	**SW-846 8015B**		ug/l	ug/l	
01728	TPH-GRO N. CA water C6-C12	n.a.	100	50	1

General Sample Comments

State of California Lab Certification No. 2501
Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D102431AA	08/31/2010 16:07	Ginelle L Feister	1
10943	BTEX/MTBE/TAME/TBA - Water	SW-846 8260B	1	D102431AA	08/31/2010 16:07	Ginelle L Feister	1
01146	GC VOA Water Prep	SW-846 5030B	1	10242A20A	08/30/2010 19:00	Tyler O Griffin	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	10242A20A	08/30/2010 19:00	Tyler O Griffin	1

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Analysis Report

Sample Description: EW-2-W-100823 Grab Water
Facility# 98139 Job# 386461 MTI# 61H-1971 GRD
16304 Foothill-San Leandr T0600100303 EW-2

LLI Sample # WW 6071138
LLI Group # 1209393
Account # 12099

Project Name: 98139

Collected: 08/23/2010 10:40 by KE

Submitted: 08/27/2010 09:00
Reported: 09/02/2010 09:14
Discard: 10/03/2010

Chevron c/o CRA
Suite 110
2000 Opportunity Drive
Roseville CA 95678

RSLE2

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l	ug/l	
10943	t-Amyl methyl ether	994-05-8	37	0.5	1
10943	Benzene	71-43-2	N.D.	0.5	1
10943	t-Butyl alcohol	75-65-0	34	2	1
10943	Ethylbenzene	100-41-4	N.D.	0.5	1
10943	Methyl Tertiary Butyl Ether	1634-04-4	170	0.5	1
10943	Toluene	108-88-3	N.D.	0.5	1
10943	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Volatiles	**SW-846 8015B**		ug/l	ug/l	
01728	TPH-GRO N. CA water C6-C12	n.a.	550	50	1

General Sample Comments

State of California Lab Certification No. 2501
Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D102431AA	08/31/2010 16:30	Ginelle L Feister	1
10943	BTEX/MTBE/TAME/TBA - Water	SW-846 8260B	1	D102431AA	08/31/2010 16:30	Ginelle L Feister	1
01146	GC VOA Water Prep	SW-846 5030B	1	10242A20A	08/30/2010 19:21	Tyler O Griffin	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	10242A20A	08/30/2010 19:21	Tyler O Griffin	1

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Analysis Report

Sample Description: EW-3-W-100823 Grab Water
Facility# 98139 Job# 386461 MTI# 61H-1971 GRD
16304 Foothill-San Leandr T0600100303 EW-3

LLI Sample # WW 6071139
LLI Group # 1209393
Account # 12099

Project Name: 98139

Collected: 08/23/2010 09:50 by KE

Submitted: 08/27/2010 09:00
Reported: 09/02/2010 09:14
Discard: 10/03/2010

Chevron c/o CRA
Suite 110
2000 Opportunity Drive
Roseville CA 95678

RSLE3

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l	ug/l	
10943	t-Amyl methyl ether	994-05-8	N.D.	0.5	1
10943	Benzene	71-43-2	N.D.	0.5	1
10943	t-Butyl alcohol	75-65-0	N.D.	2	1
10943	Ethylbenzene	100-41-4	4	0.5	1
10943	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10943	Toluene	108-88-3	N.D.	0.5	1
10943	Xylene (Total)	1330-20-7	0.7	0.5	1
GC Volatiles	**SW-846 8015B**		ug/l	ug/l	
01728	TPH-GRO N. CA water C6-C12	n.a.	520	50	1

General Sample Comments

State of California Lab Certification No. 2501
Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D102431AA	08/31/2010 11:35	Ginelle L Feister	1
10943	BTEX/MTBE/TAME/TBA - Water	SW-846 8260B	1	D102431AA	08/31/2010 11:35	Ginelle L Feister	1
01146	GC VOA Water Prep	SW-846 5030B	1	10242A20A	08/30/2010 19:43	Tyler O Griffin	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	10242A20A	08/30/2010 19:43	Tyler O Griffin	1

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Analysis Report

Quality Control Summary

Client Name: Chevron c/o CRA
Reported: 09/02/10 at 09:14 AM

Group Number: 1209393

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: D102431AA	Sample number(s): 6071137-6071139							
t-Amyl methyl ether	N.D.	0.5	ug/l	92		77-120		
Benzene	N.D.	0.5	ug/l	102		79-120		
t-Butyl alcohol	N.D.	2.	ug/l	97		62-129		
Ethylbenzene	N.D.	0.5	ug/l	106		79-120		
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	90		76-120		
Toluene	N.D.	0.5	ug/l	105		79-120		
Xylene (Total)	N.D.	0.5	ug/l	109		80-120		
Batch number: 10242A20A	Sample number(s): 6071137-6071139							
TPH-GRO N. CA water C6-C12	N.D.	50.	ug/l	100	91	75-135	10	30

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: D102431AA	Sample number(s): 6071137-6071139 UNSPK: 6071139								
t-Amyl methyl ether	98	91	75-122	7	30				
Benzene	109	100	80-126	9	30				
t-Butyl alcohol	100	89	67-119	11	30				
Ethylbenzene	120	109	71-134	8	30				
Methyl Tertiary Butyl Ether	92	84	72-126	9	30				
Toluene	111	102	80-125	9	30				
Xylene (Total)	117	108	79-125	9	30				
Batch number: 10242A20A	Sample number(s): 6071137-6071139 UNSPK: P066004								
TPH-GRO N. CA water C6-C12	127		63-154						

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: UST VOCs by 8260B - Water
Batch number: D102431AA

Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene

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

Quality Control Summary

Client Name: Chevron c/o CRA
Reported: 09/02/10 at 09:14 AM

Group Number: 1209393

Surrogate Quality Control

6071137	99	95	99	98
6071138	98	93	99	103
6071139	99	97	99	101
Blank	99	97	99	100
LCS	99	99	99	102
MS	98	100	100	103
MSD	97	97	100	102
Limits:	80-116	77-113	80-113	78-113

Analysis Name: TPH-GRO N. CA water C6-C12
Batch number: 10242A20A

	Trifluorotoluene-F
6071137	94
6071138	109
6071139	109
Blank	90
LCS	113
LCSD	110
MS	130
Limits:	63-135

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

Lancaster Laboratories

Explanation of Symbols and Abbreviations

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

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

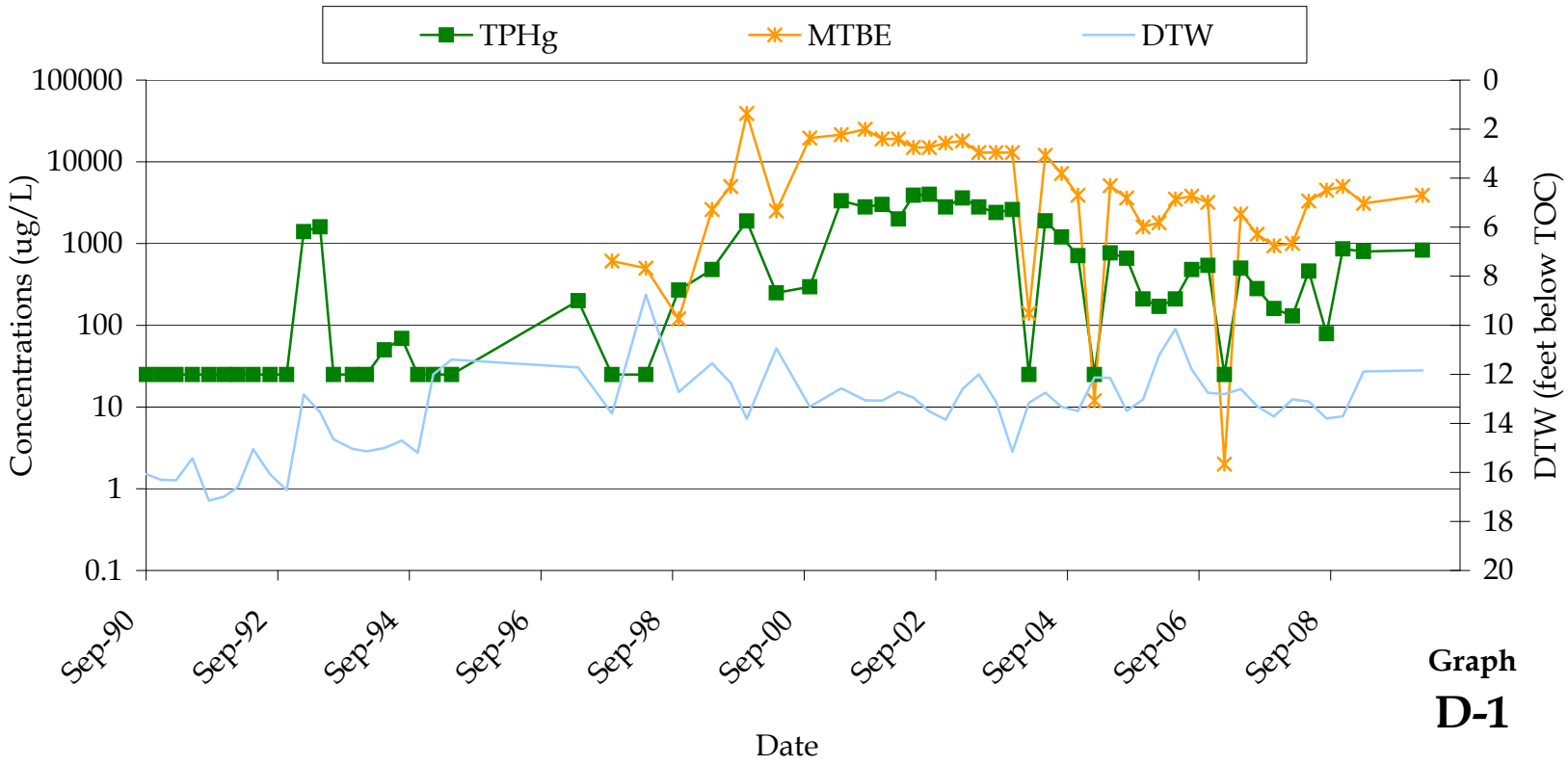
Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

APPENDIX D

CONCENTRATION VERSUS TIME GRAPHS



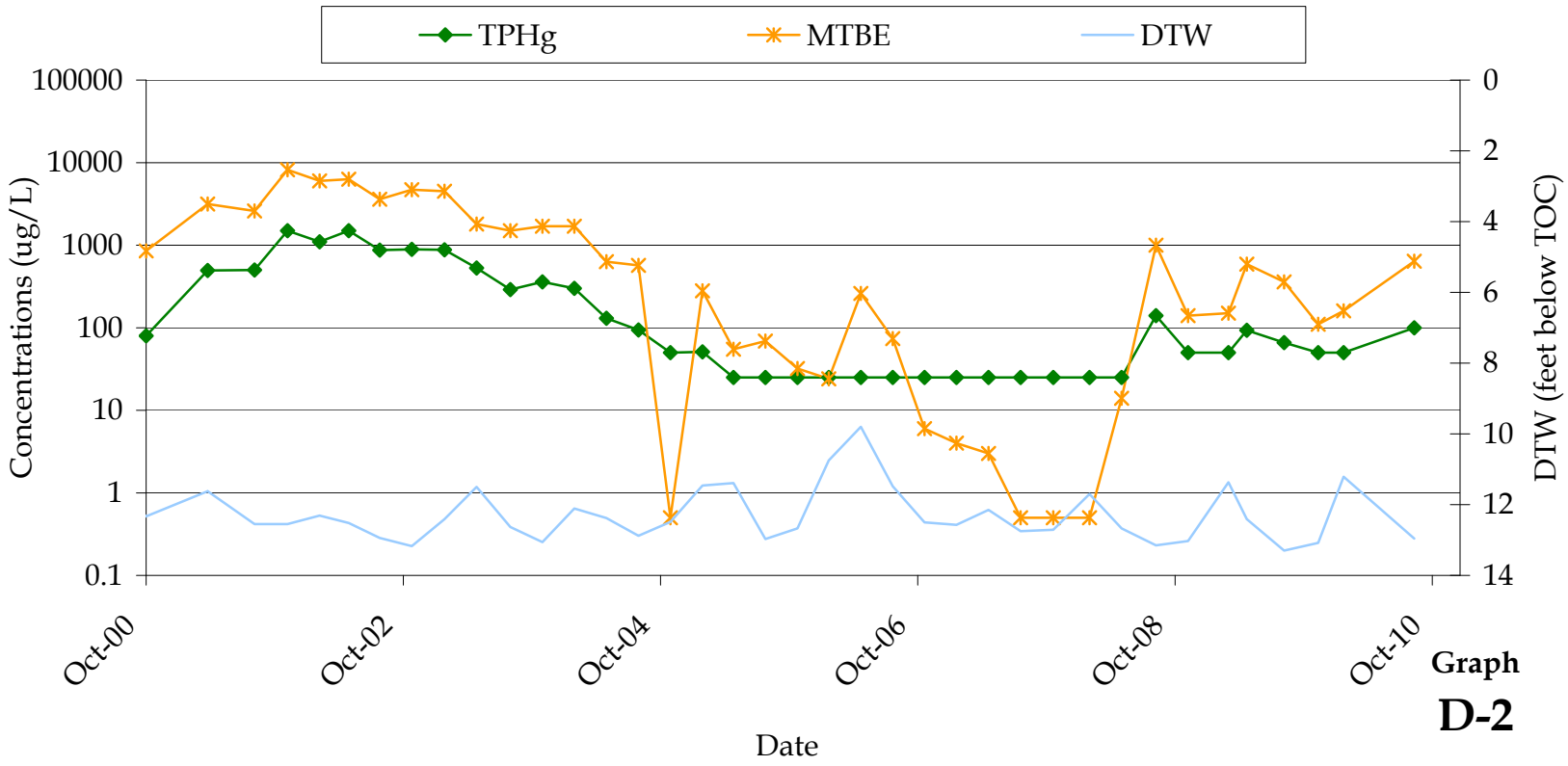
Graph

D-1

CHEVRON SERVICE STATION 9-8139
16304 FOOTHILL BOULEVARD
SAN LEANDRO, CALIFORNIA

CONESTOGA-ROVERS & ASSOCIATES

MW-8: TPHg AND MTBE
CONCENTRATION vs. TIME



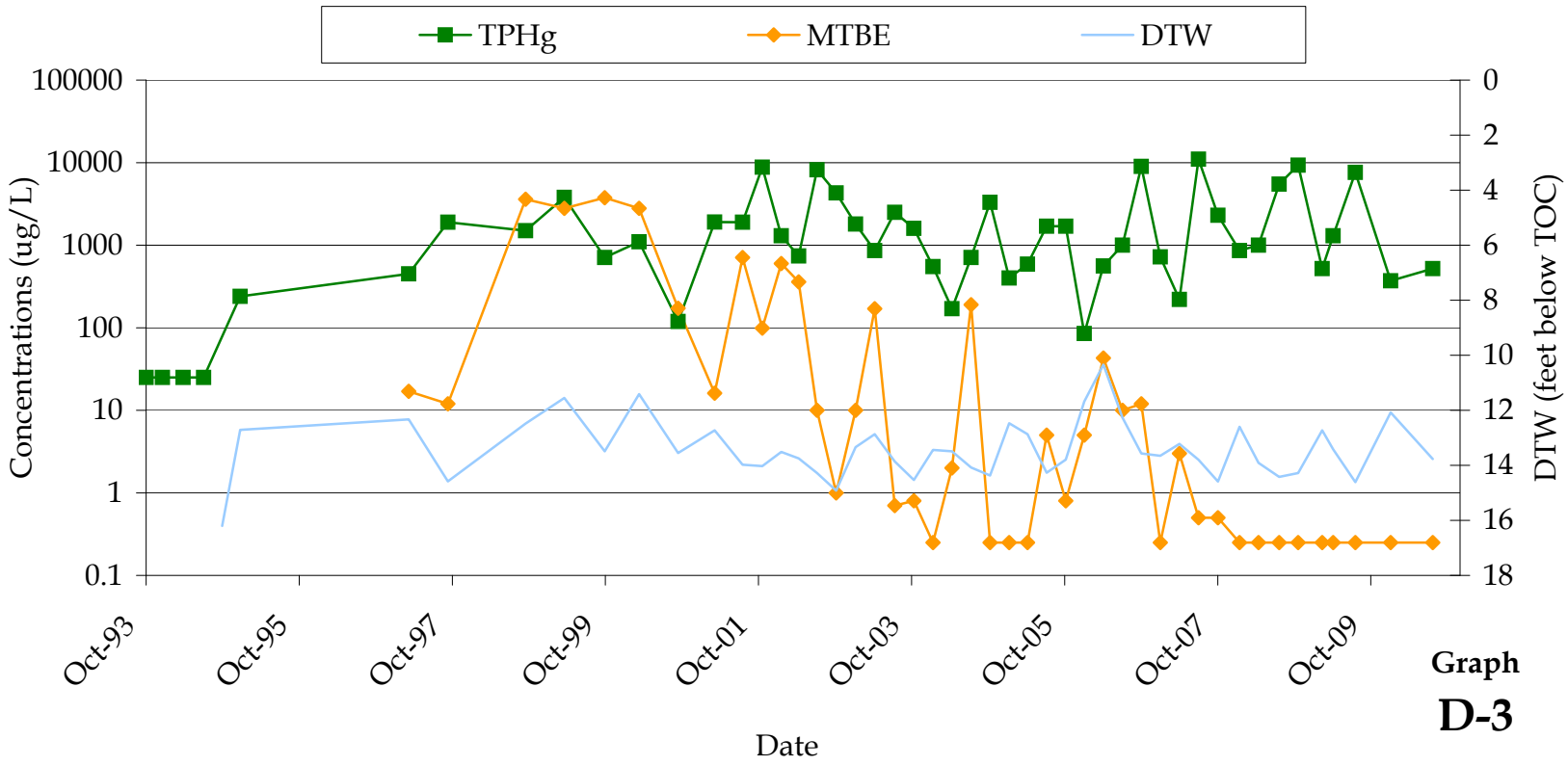
Graph

D-2

CHEVRON SERVICE STATION 9-8139
16304 FOOTHILL BOULEVARD
SAN LEANDRO, CALIFORNIA

CONESTOGA-ROVERS & ASSOCIATES

MW-14: TPHg AND MTBE
CONCENTRATION vs. TIME



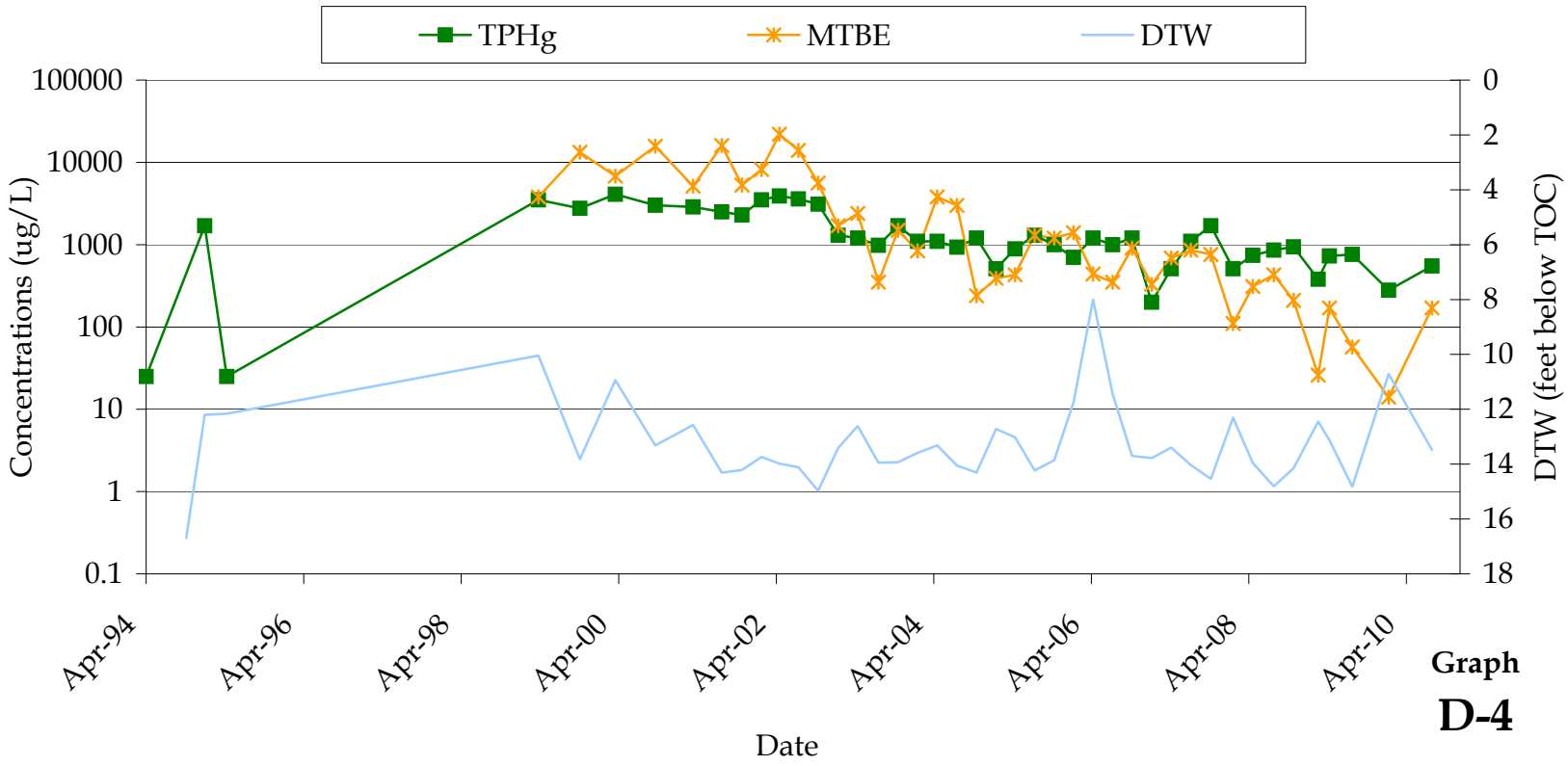
Graph

D-3

CHEVRON SERVICE STATION 9-8139
16304 FOOTHILL BOULEVARD
SAN LEANDRO, CALIFORNIA

CONESTOGA-ROVERS & ASSOCIATES

E-2: TPHg and MTBE
CONCENTRATION vs. TIME



Graph

D-4

CHEVRON SERVICE STATION 9-8139
16304 FOOTHILL BOULEVARD
SAN LEANDRO, CALIFORNIA

CONESTOGA-ROVERS & ASSOCIATES

E-3: TPHg AND MTBE
CONCENTRATION vs. TIME

APPENDIX E

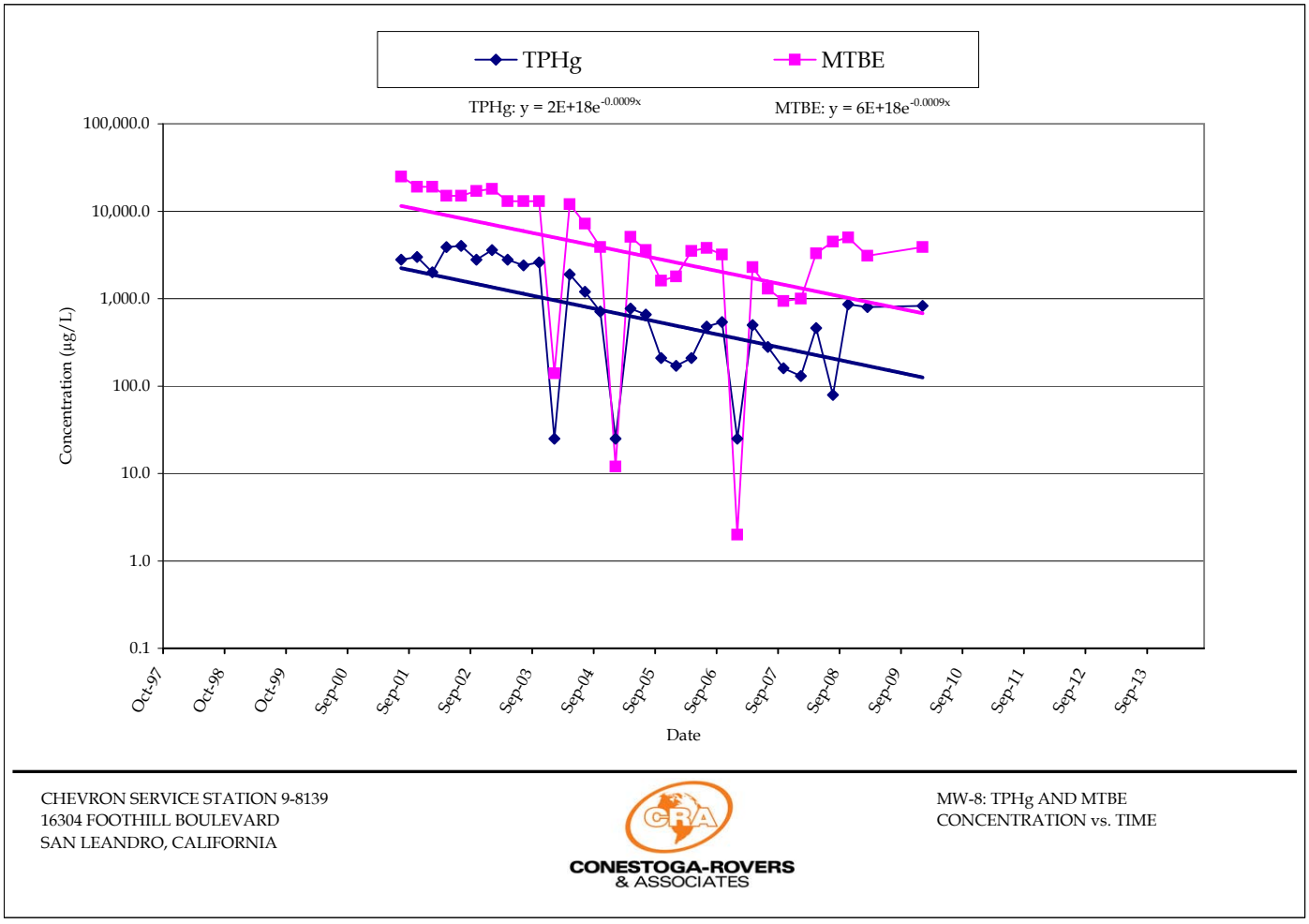
TREND GRAPHS AND DEGRADATION CALCULATIONS

PREDICTED TIME TO REACH TPHg AND MTBE ESLs IN MW-8
CHEVRON STATION 9-8139
16304 FOOTHILL BOULEVARD
SAN LEANDRO, CALIFORNIA

$y = b\,e^{ax}$ **===>** $x = \ln(y/b) / a$

where: y = concentration in µg/L a = decay constant
b = concentration at time (x) x = time in days

	Constituent	Total Petroleum Hydrocarbons as Gasoline (TPHg)	MTBE
Given			
ESL:	y	100	5
Constant:	b	2.00E+18	6.00E+18
Constant:	a	-9.00E-04	-9.00E-04
Starting date for current trend:		7/31/2007	7/31/2007
Calculate			
Attenuation Half Life (years):	(-ln(2)/a)/365.25	2.11	2.11
Estimated Date to Reach ESL:	(x = ln(y/b) / a)	Mar 2014	Aug 2026



CHEVRON SERVICE STATION 9-8139
16304 FOOTHILL BOULEVARD
SAN LEANDRO, CALIFORNIA

CONESTOGA-ROVERS & ASSOCIATES

MW-8: TPHg AND MTBE
CONCENTRATION vs. TIME

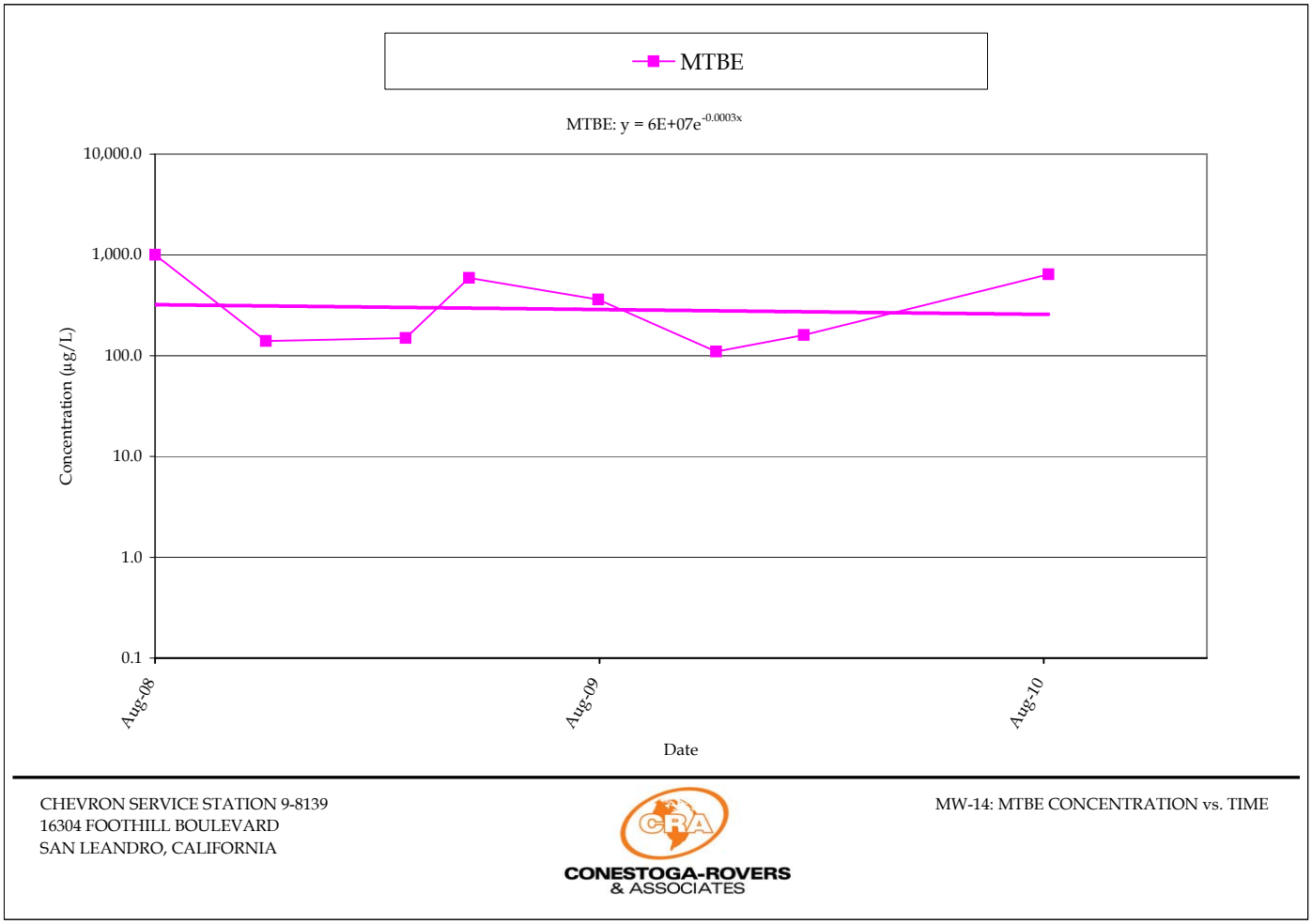
611971 (11)

PREDICTED TIME TO REACH MTBE ESL IN MW-14
CHEVRON STATION 9-8139
16304 FOOTHILL BOULEVARD
SAN LEANDRO, CALIFORNIA

$y = b\,e^{ax}$ **===>** $x = \ln(y/b) / a$

where: y = concentration in µg/L a = decay constant
b = concentration at time (x) x = time in days

		MTBE
Constituent		
Given		
ESL:	y	5
Constant:	b	6.00E+07
Constant:	a	-3.00E-04
Starting date for current trend:		8/19/2008
Calculate		
Attenuation Half Life (years):	(-ln(2)/a)/365.25	6.33
Estimated Date to Reach ESL:	(x = ln(y/b) / a)	Oct 2048



CHEVRON SERVICE STATION 9-8139
16304 FOOTHILL BOULEVARD
SAN LEANDRO, CALIFORNIA

CONESTOGA-ROVERS & ASSOCIATES

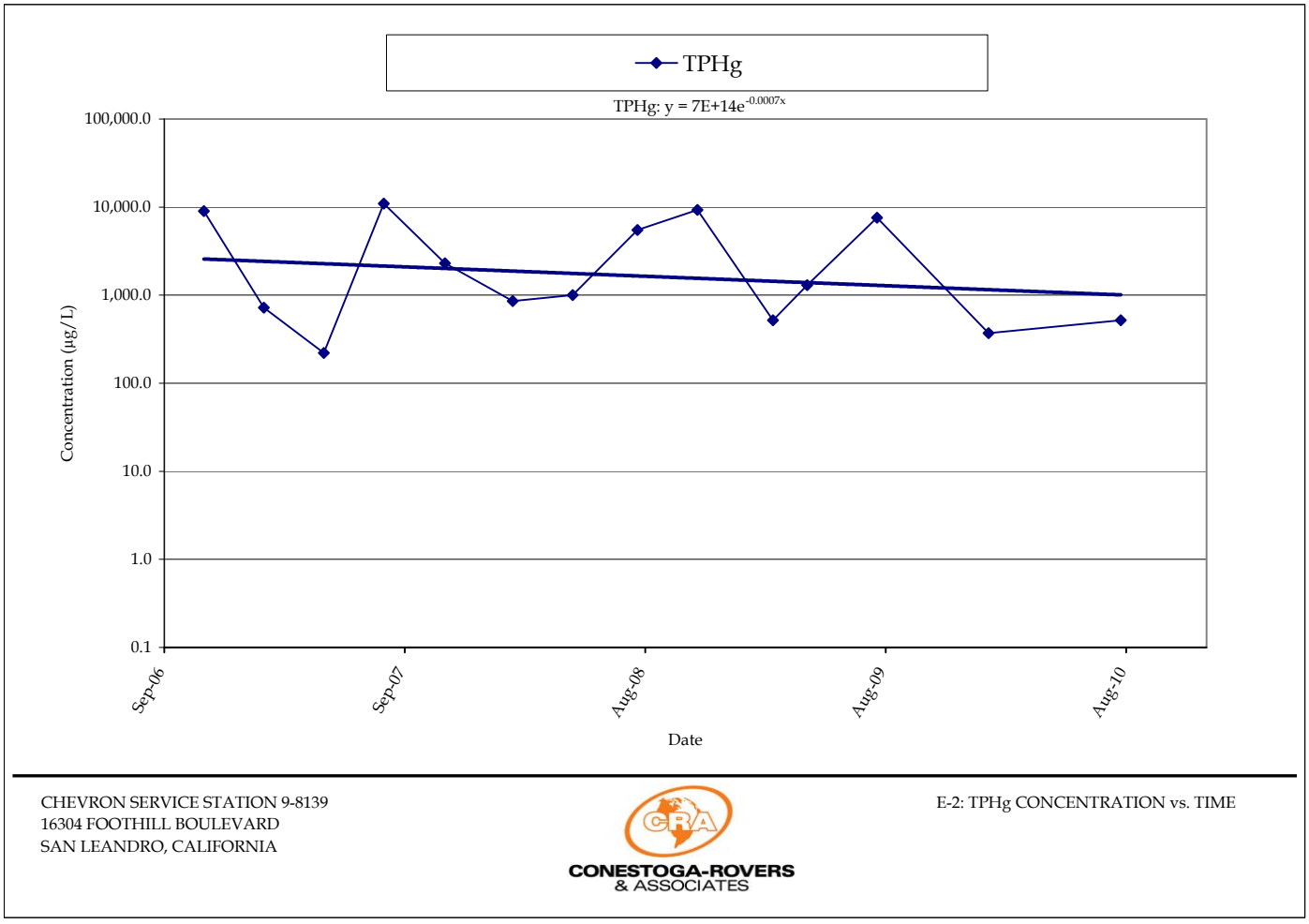
MW-14: MTBE CONCENTRATION vs. TIME

PREDICTED TIME TO REACH TPHg ESL IN E-2
CHEVRON STATION 9-8139
16304 FOOTHILL BOULEVARD
SAN LEANDRO, CALIFORNIA

$y = b\,e^{ax}$ **===>** $x = \ln(y/b) / a$

where: y = concentration in µg/L a = decay constant
b = concentration at time (x) x = time in days

		Constituent	Total Petroleum Hydrocarbons as Gasoline (TPHg)
Given			
	ESL:	y	100
	Constant:	b	7.00E+14
	Constant:	a	-7.00E-04
	Starting date for current trend:		7/31/2007
Calculate			
	Attenuation Half Life (years):	(-ln(2)/a)/365.25	2.71
	Estimated Date to Reach ESL:	(x = ln(y/b) / a)	Sep 2015



CHEVRON SERVICE STATION 9-8139
16304 FOOTHILL BOULEVARD
SAN LEANDRO, CALIFORNIA

CONESTOGA-ROVERS & ASSOCIATES

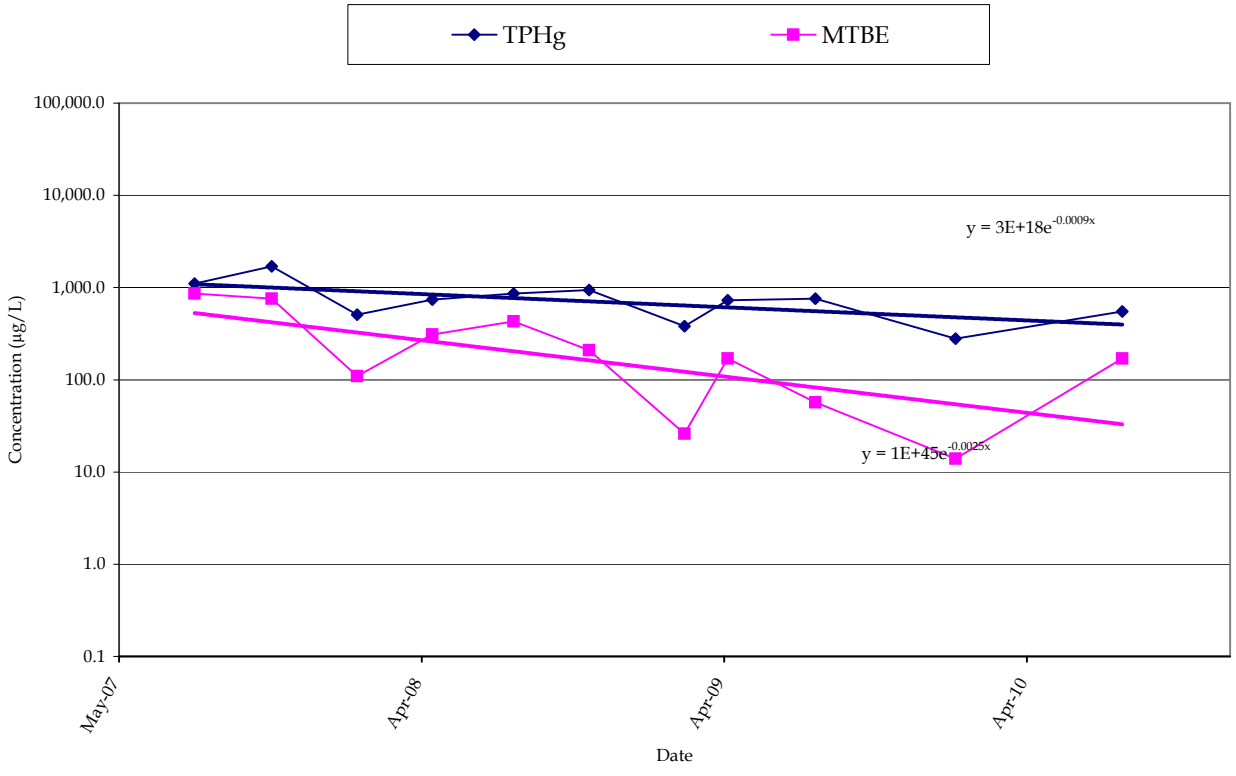
E-2: TPHg CONCENTRATION vs. TIME

PREDICTED TIME TO REACH TPHg AND MTBE ESLs IN E-3
CHEVRON STATION 9-8139
16304 FOOTHILL BOULEVARD
SAN LEANDRO, CALIFORNIA

$y = b\,e^{ax}$ **===>** $x = \ln(y/b) / a$

where: y = concentration in µg/L — a = decay constant
b = concentration at time (x) — x = time in days

	Constituent	Total Petroleum Hydrocarbons as Gasoline (TPHg)	MTBE
Given			
ESL:	y	100	5
Constant:	b	3.00E+18	1.00E+45
Constant:	a	-9.00E-04	-2.30E-03
Starting date for current trend:		7/31/2007	7/31/2007
Calculate			
Attenuation Half Life (years):	(-ln(2)/a)/365.25	2.11	0.83
Estimated Date to Reach ESL:	(x = ln(y/b) / a)	May 2015	Jun 2021



CHEVRON SERVICE STATION 9-8139
16304 FOOTHILL BOULEVARD
SAN LEANDRO, CALIFORNIA

CONESTOGA-ROVERS & ASSOCIATES

E-3: TPHg AND MTBE CONCENTRATION vs. TIME

APPENDIX F

MASS CALCULATIONS

ESTIMATED TPHg MASS REMAINING IN GROUNDWATER
CHEVRON STATION 9-8139
16304 FOOTHILL BOULEVARD
SAN LEANDRO, CALIFORNIA

Impacted GW Thickness (ft)	*Impacted GW Area (sq-ft)*	*Aquifer Volume (cu-ft)*	*Estimated Aquifer Porosity*	*Impacted GW Volume (gallons)*	*Representative TPHg Concentration (ug/l)*	*Total Dissolved TPHg Mass (kg)*	*Total Dissolved TPHg Volume (gallons)*
10.0	6,500	65,000	0.4	194,480	500	0.368	0.132
					Total Estimated Residual TPHg:	0.368	0.132

Notes:

Aquifer Volume = Impacted GW thickness x impacted GW area [excludes aquifer volume of greater impact]

Impacted GW Volume = Aquifer volume (cu-ft) x est. porosity (%) x 7.48 (gals/cu-ft)

Total Dissolved TPHg Mass = Impacted GW volume (gals) x 3.785 (l/gal) x Concentration (ug/l) / 1,000,000,000 (ug/kg)

Total Dissolved TPHg Volume = (Mass (kg) *2.205 lbs/kg) / 6.14 (lbs/gal)

Approximate density TPHg (gasoline) = 6.14 lb/gal

Abbreviations:

GW = Groundwater
ft = feet
sq-ft = square feet
cu-ft = cubic feet
gals = gallons
kg = kilograms
lb = pound
ug/l = micrograms per liter

Soil Type:	Porosity
Gravel	25-40
Sand	25-50
Silt	35-50
Clay	40-70

From: Groundwater; Freeze & Cherry, *1979* , Prentice-Hall, Inc., pg. 37. (based on Davis, 1969)

ESTIMATED MTBE MASS REMAINING IN GROUNDWATER
CHEVRON STATION 9-8139
16304 FOOTHILL BOULEVARD
SAN LEANDRO, CALIFORNIA

Impacted GW Thickness (ft)	*Impacted GW Area (sq-ft)*	*Aquifer Volume (cu-ft)*	*Estimated Aquifer Porosity*	*Impacted GW Volume (gallons)*	*Representative MTBE Concentration (ug/l)*	*Total Dissolved MTBE Mass (kg)*	*Total Dissolved MTBE Volume (gallons)*
10.0	1,080	10,800	0.4	32,314	2,000	0.245	0.087
10.0	5,184	51,840	0.4	155,105	500	0.294	0.105
10.0	1,917	19,170	0.4	57,357	50	0.011	0.004
10.0	2,088	20,880	0.4	62,473	5	0.001	0.000
					Total Estimated Residual MTBE:	0.550	0.196

Notes:

Aquifer Volume = Impacted GW thickness x impacted GW area [excludes aquifer volume of greater impact]
Impacted GW Volume = Aquifer volume (cu-ft) x est. porosity (%) x 7.48 (gals/cu-ft)
Total Dissolved MTBE Mass = Impacted GW volume (gals) x 3.785 (l/gal) x Concentration (ug/l) / 1,000,000,000 (ug/kg)
Total Dissolved MTBE Volume = (Mass (kg) * 2.205 lbs/kg) / 6.19 (lbs/gal)
Approximate density of MTBE = 6.19 lb/gal

Abbreviations:

GW = Groundwater
ft = feet
sq-ft = square feet
cu-ft = cubic feet
gals = gallons
kg = kilograms
lb = pound
ug/l = micrograms per liter

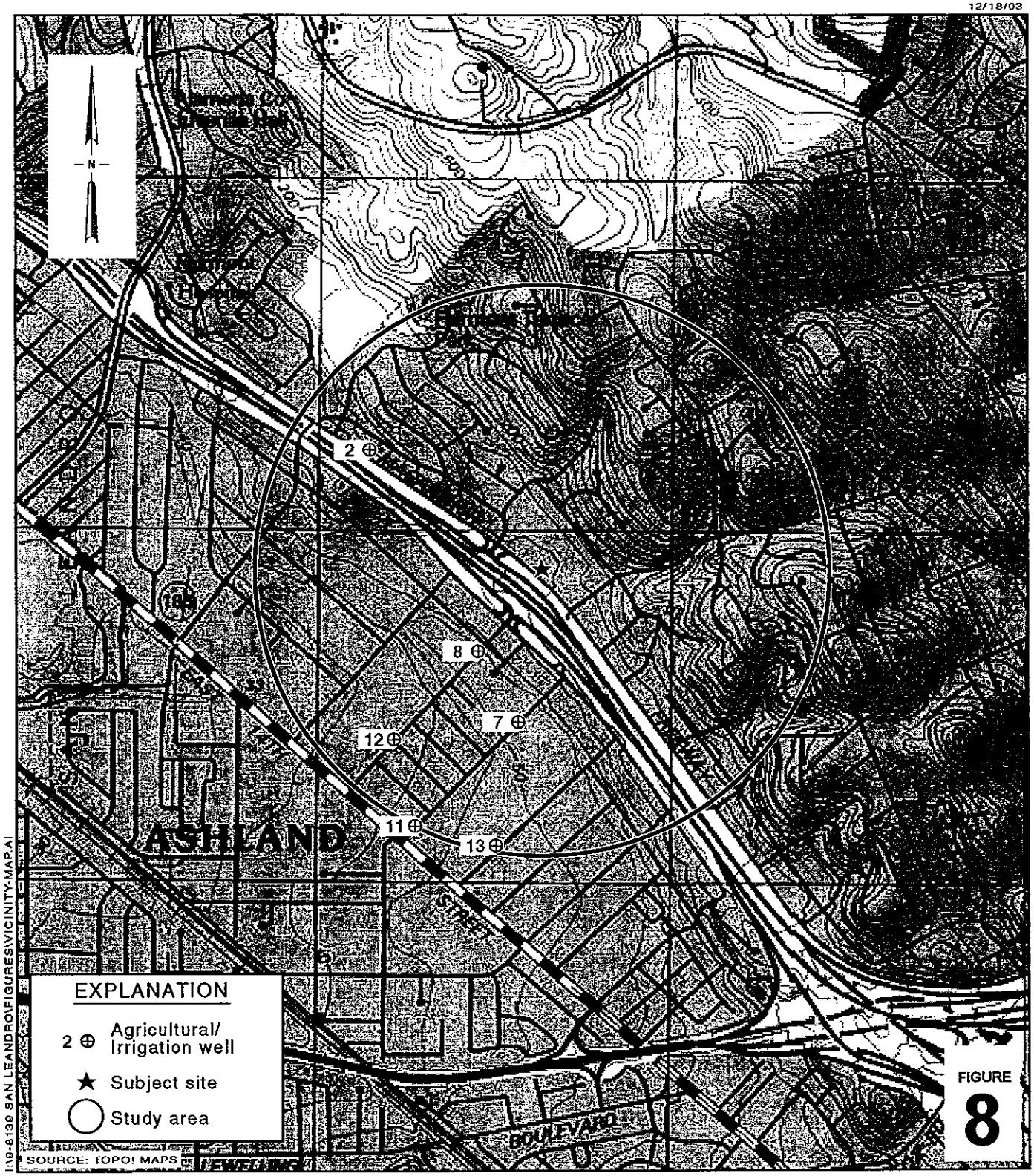
Soil Type:	Porosity
Gravel	25-40
Sand	25-50
Silt	35-50
Clay	40-70

From: Groundwater; Freeze & Cherry, *1979* , Prentice-Hall, Inc., pg. 37. (based on Davis, 1969)

APPENDIX G

WELL SURVEY INFORMATION

12/18/03



I:\18-8139 SAN LEANDRO\FIGURES\VICINITY-MAP.AI

0 1/8 1/4 1/2 1

SCALE : 1" = 1/4 MILE

Chevron Service Station

16304 Foothill Boulevard

San Leandro, California

CAMBRIA

Area Well Survey Map

1/2 Mile Radius

Table 3
WATER SUPPLY WELLS
Chevron Service Station No. 9-8139

OWNER	WELL LOCATION	WELL DESIGNATION			USE
1) Hayward Municipal Water System	Julia Street, Castro Valley	3S/2W	5A	14	MUN
2) UMEKI Nursery	16001 Foothill Blvd,San Leandro	3S/2W	5E	1	IRR
3) U.S. Nursery	1767 162nd Ave., San Leandro	3S/2W	5E	2	ABN
4) ?	Foothill Blvd., San Leandro	3S/2W	5L	1	ABN
5) Frank Martinez	1570 164th Ave., San Leandro	3S/2W	5L	2	ABN
6) A.J. Pitcka	Gravel Rd., San Leandro	3S/2W	5L	3	IRR
7) Woodward	1595 164th Ave., San Leandro	3S/2W	5L	4	IRR
8) A. Quilici	1700 163rd Ave., San Leandro	3S/2W	5L	5	IRR
9) Protez	1480 162nd Ave., San Leandro	3S/2W	5M	2	ABN
10) Medina	?, San Leandro	3S/2W	5N	1	DOM
11) Selin	1414 164th Ave., San Leandro	3S/2W	5N	2	IRR
12) Namura Nursery	1501 163rd Ave., San Leandro	3S/2W	5N	3	IRR
13) S. Nieda	1537 165th Ave., San Leandro	3S/2W	5P	1	IRR
14) Nelson Nursery	1601 165th Ave., San Leandro	3S/2W	5P	2	ABN

*USE:
ABN - Abandoned Well
DOM - Domestic Well
IRR - Irrigation Well
MUN - Municipal Well

EXPLANATION

2 ◉ Water-producing well location and designation (see Table 2)
(Estimated locations of wells 1, 4,6,10 are shown)

Note: Map adapted from Hayward 7.5' Quadrangle

January 1990

CHEMPRO
A Burlington Environmental Inc. Company

CHEMICAL PROCESSORS, INC.
950 "B" Gilman Street
Berkeley, CA 94710

SITE LOCATION MAP
AND WELL SURVEY AREA
Chevron Service Station No. 9-8139
16304 Foothill Boulevard
San Leandro, California

Figure

Job No. 987158