RO 477

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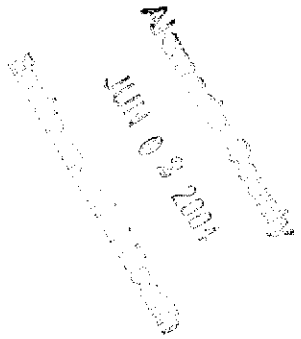
May 27, 2004

Mr. Scott Seery
Alameda County Health Care Services Agency (ACHCSA)
Department of Environmental Health
1131 Harbor Bay Parkway
Suite 250
Alameda, CA 94502

Re: **Closure Request**
Chevron Service Station 9-1924
4904 Southfront Road
Livermore, California



Dear Mr. Seery:

Cambria Environmental Technology, Inc. (Cambria) is submitting this case closure request for the facility referenced above on behalf of Chevron Environmental Management Company (ChevronTexaco). Based on our review of the site background and conditions, Cambria believes that this site meets the Regional Water Quality Control Board-San Francisco Bay Region (RWQCB) definition of a low-risk fuel site, as described in their memorandum "*Interim Guidance on Required Cleanup at Low-Risk Fuel Sites*", dated January 5, 1996. A summary of the site background, site conditions, and the applicability of low-risk fuel site criteria are discussed below.

SITE BACKGROUND

Site Location and Use: The site is an active Chevron service station located on the southeastern corner of the intersection of Southfront Lane and First Street (US Highway 84) at Southfront Road in Livermore, California (Figure 1). The surrounding land use is primarily commercial with a BP Service Station opposite Southfront Lane. The site originally opened in 1971 and was remodeled in March 1985 and then again in April 2000 into its current configuration. The site currently consists of a station building, four dispenser islands, three 10,000-gallon double-walled fiberglass fuel underground storage tanks (USTs) (Figure 2).

Previous Investigations

Upon detection of a leaking UST in December 1984 and January 1985, Emcon Associated advanced 18 soil borings and converted 14 of these to groundwater monitoring wells C-1 through C-9, C-12, and

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C-14 through C-17. The four borings not converted to wells were terminated due to utility conflicts. No soil samples were collected from any boring. Details are presented in J.H. Kleinfelder & Associates report *Groundwater Monitoring Well Installation*, March 11, 1985. In March 1985, Groundwater Technology Inc. installed wells C-18 and C-19. No soil samples were taken from these borings. In October 1995, Groundwater Technology, Inc. (GTI) installed monitoring wells C-20 and C-21. Soil samples were collected from these borings and samples from 10 feet below grade (fbg) were selected for analysis. No hydrocarbons were detected in these samples.

1985 UST Upgrade: Subsequent to the release, Chevron decommissioned the leaking 10,000-gallon UST. Then in March 1985, this tank and two additional fuel USTs, one 5,000-gallon and one 10,000-gallon, were removed and a new UST complex was excavated southeast of the dispenser islands. Three 10,000 gallon double-walled fiberglass USTs were installed in the new UST pit. Additionally, a 1,000-gallon UST was installed north of the new UST complex. No soil samples were collected from either of the UST excavations. Well C-4, located at the northwest corner of the former fuel UST pit, was destroyed during the UST removal activities.

1985 Groundwater Treatment: Following the UST removal and replacement, GTI installed a groundwater treatment system which consisted of a 12-inch recovery well and an air stripping unit to remediate impacted groundwater. The system was operated from February 1985 to April 1986 and then again from March 1990 to January 1991. A total of 1,070,999 gallons of groundwater was treated and 296 gallons of separate phase hydrocarbons (SPH) were removed. The groundwater extraction unit was removed in July 1993. Details of the groundwater recovery system are presented in the Groundwater Technology report *Recovery system Report Chevron U.S.A., Inc. Livermore, California,* December 12, 1985.

1997 Product Piping Removal: In June 1997, existing product piping was removed and replaced with double-walled piping. Soil samples were collected from each product line trench at depths of 3 and 3.5 fbg. A total of four soil samples were collected and submitted for analysis. Total petroleum hydrocarbons as gasoline (TPHg) was detected in two samples at concentrations of 1.5 and 2.1 mg/kg. Methyl tertiary butyl ether (MTBE) was detected in all four soil samples at concentrations ranging from 0.27 to 2.2 mg/kg. Details are presented in Touchstone Developments report, *Product Piping Removal Soil Sampling Report*, June 18, 1997.

2000 Station Upgrade: In April 2000, product pipelines were upgraded and the used-oil UST was removed. Six soil samples were collected from beneath the product line trench at depths of 3 and 6 fbg. TPHg was detected at concentrations ranging from below detection limit to 3.6 mg/kg. Soil

samples were also collected from the bottom of the used-oil UST excavation at 10 fbg. No TPHg or benzene was detected in these samples. Total petroleum hydrocarbons as diesel (TPHd) was detected at 1.5 mg/kg in one sample. During this station upgrade, wells C-2, C-3, C-6, and C-15 were destroyed. Details are presented in Gettler-Ryan Inc. reports *Soil Sampling During Waste Oil UST and Product Line Removal at Chevron Service Station 9-1924*, May 17, 2000 and *Well Destruction at Chevron Service Station #9-1924, 4904 Southfront Road, Livermore, California*, May 17, 2000.

2001 Well Destruction: In November 2001, monitoring wells C-5, C-8, C-10, C-14, C-17, and C-19 were destroyed under the supervision of Delta Environmental Consultants, Inc. These wells were destroyed in an attempt to reduce the possibility of impacting the water bearing zone beneath the site from unused monitoring wells. A soil sample was collected from the stockpile produced during well destruction and 2,200 mg/kg TPHg, 3.9 mg/kg benzene, and 7.2 mg/kg MTBE was detected. Details are presented in Delta Environmental Consultants, Inc. report *Monitoring Well Destruction Results Report,* January 23, 2002.

2002 Site Conceptual Model: A Site Conceptual Model was prepared to evaluate environmental assessment activities associated with past petroleum releases and to identify potential receptors in the vicinity that could be impacted by residual petroleum hydrocarbons. A Department of Water Resources (DWR) supply well search was conducted. Nine wells were identified but the search also indicated all nine wells identified had been destroyed. Details are presented in Delta Environmental Consultants, Inc. report *Site Conceptual Model*, December 10, 2002.

SITE CONDITIONS

Hydrology: The site is in the Livermore Valley Groundwater Basin according to the Water Quality Control Plan adopted by the RWQCB. Groundwater in this basin has been designated beneficial for municipal, industrial, and agricultural uses. The depth to groundwater has historically ranged from 8.80 to 17.21 fbg. Depth to water currently ranges from 11.32 in C-9 to 13.53 in C-20. Historical data indicates groundwater typically flows towards the west to southwest.

Geologic Setting: Soil in the vicinity of the site consists of Holocene and Pleistocene surficial deposits composed of undivided soils.[1] Soil beneath the site primarily consists of clay and silty clay interlayered with sands and gravels up to approximately 21 to 35 fbg (maximum depth of drilling). The site is located

approximately 525 feet above mean sea level and topography slopes towards the northwest. Arroyo Las Positas is located approximately 300 feet south of the site. Well and boring logs are presented in Attachment A.

Hydrocarbon Distribution in Soil

Soil samples collected from the site were analyzed for TPHg, benzene, toluene, ethylbenzene, and xylenes (BTEX), and MTBE. Non-detect to low concentrations of TPHg and MTBE were detected in soil samples collected from piping replacement and used-oil UST removal activities. The maximum TPHg detected was 3.6 mg/kg, while the maximum MTBE detected was 2.2 mg/kg. Benzene was detected in only one soil sample just above the detection limit. No soil samples were collected from borings except from offsite wells, C-20 and C-21. A soil sample was collected from the stockpile generated during destruction of wells C-5, C-10, C-14, C-17, and C-19. Laboratory analysis of that sample detected 2,200 mg/kg TPHg, 3.9 mg/kg benzene, and 7.2 mg/kg MTBE. However, these concentrations represent impacted soil and groundwater, and therefore are unreliable as an accurate representation of soil concentrations.

Based on review of historical soil samples collected from the site, no data has been collected for soil in the vicinity of the former USTs. The fuel release occurred from one of the former USTs prior to December 1984 and some residual hydrocarbons likely remain in the soil at these locations. Hydrocarbons in soil are defined to non-detect levels in off-site well borings C-20 and C-21. Cumulative analytical results for soil are presented in Table 1.

Hydrocarbon Distribution in Groundwater

Currently, groundwater monitoring wells C-7, C-9, C-11, C-12, C-13, C-20, and C-21 are sampled quarterly. Groundwater samples are analyzed for TPHg, BTEX, MTBE, and other fuel oxygenates. Groundwater samples collected from C-7 through C-9 have also been analyzed for chlorinated solvents and other compounds from approximately 1989 to 1994. However, only low to non-detect concentrations were present. Concentrations of TPHg, benzene, and MTBE have decreased significantly since their reported highs in the late 1980s and 1990s. Dissolved hydrocarbons in groundwater have historically been detected in wells C-7, C-9, C-11, and C-12. Currently, dissolved phase hydrocarbons continue to be detected in wells C-7 and C-9 and MTBE continues to be detected in C-7, C-9, and C-11. The most recent groundwater results from well C-7 and C-9 reported TPHg at

1 Geologic Mapping by R.W. Graymer, D.L. Jones, and E.E. Brabb. Preliminary Geologic map emphasizing bedrock formation in Alameda County, California: U.S. Geologic Survey Derived from the digital database open file 96-252.

1,100 and 310 µg/L respectively. No benzene was detected in C-7 or C-9. MTBE was detected at concentrations of 15 µg/L in C-7, 10 µg/L in C-9, and 9 µg/L in C-11 and has been below 1,500 µg/L in all wells for at least the past twelve consecutive sampling events. Dissolved hydrocarbons are limited to wells, C-7, C-9, and C-11. Concentrations have decreased significantly over time and continue to decrease. TPHg was detected in C-12 for three continuous sampling events (from the fourth quarter 2001 through the second quarter 2002), but has been below detection limits for the subsequent seven events.

The TPHg, benzene, and MTBE plumes appear to be stable and localized in the vicinity of wells C-7, C-9, and C-11 and they have exhibited decreasing trends. (Figures 3 and 4). This is partially a result of the groundwater treatment system having operated between 1990 and 1991 and between 1995 and 1996 at the site. Continuation of these trends suggests that removal of the hydrocarbon source (the former USTs), active remediation, and natural attention has facilitated stabilization and reduction of the dissolved hydrocarbon plume. Current and historical groundwater concentrations show that the extent of dissolved TPHg, BTEX, and MTBE are defined in all directions. Hydrocarbons in groundwater are defined to non-detect levels in the down-gradient direction by wells C-20 and C-21, in the cross-gradient direction by wells C-8, C-12, and C-18 , and in the up-gradient direction by wells C-15. The first quarter 2004 groundwater monitoring and sampling report is presented as Attachment B.

REGULATORY STATUS REVIEW AND RECOMMENDATIONS

This site appears to meet the RWQCB criteria for a low-risk fuel site. As described by the January 5, 1995 RWQCB memorandum *Regional Board Supplemental Instructions to State Water Board December 8, 1995, Interim Guidance on Required Cleanup at Low-Risk Fuel Sites*, a low-risk groundwater case has the following general characteristics:

- The leak has stopped and ongoing sources, including free product, have been removed or remediated;
- The site has been adequately characterized;
- The dissolved hydrocarbon plume is not migrating;
- No water wells, deeper drinking water aquifers, surface water, or other sensitive receptors are likely to be impacted; and
- The site presents no significant risk to human health or the environment.

Each of the low-risk groundwater case characteristics, as they relate to the site, are discussed below.

The Leak Has Stopped and Ongoing Sources, Including Free Product, Have Been Removed:

A leaking 10,000-gallon fuel UST and two additional fuel USTs were removed in 1985 and upgraded with a new UST complex southeast of the former dispenser islands. Following replacement of the USTs, a groundwater treatment system was installed to remediate impacted groundwater. A total of 1,070,999 gallons of groundwater was treated and 296 gallons of SPH were removed. The former used-oil UST has also been removed. The product piping that connects the USTs and the dispensers was removed and upgraded in 1997 and then again in 2000. With the removal of the used-oil tank, replacement of the fuel USTs and the product piping, and treatment of 1,070,999 gallons of groundwater, the source of hydrocarbons has been substantially removed.

The Site Has Been Adequately Characterized:

A leak was identified in a former USTs and as a result the USTs were decommissioned, removed, and a new tank pit excavated. Although, there was no soil samples collected during UST removal, it can be assumed that hydrocarbon impact to soil is limited to the area of the former UST complex where a leak was identified. Soil samples were collected from the pipeline trenches during both product piping removals and from beneath the dispenser islands. No significant concentrations of hydrocarbons were detected in these samples. Soil samples were also collected from well borings C-20 and C-21. No hydrocarbons were detected in these samples.

Eighteen exploratory borings were drilled at the Chevron site in 1985. Fourteen of these borings were converted to groundwater monitoring wells. In 1995, two additional monitoring wells were installed off-site. Currently groundwater monitoring wells C-7, C-9, C-11, C-12, C-13, C-20, and C-21 are sampled quarterly. TPHg, BTEX, and MTBE impact to groundwater is limited to monitoring wells C-7, C-9, and C-11. Wells C-20 and C-21 define the hydrocarbons in the down-gradient direction and well C-8, C-12, C-15, and C-18 define the hydrocarbons cross-gradient and up-gradient. The extent of hydrocarbons in groundwater has been defined to the degree necessary to determine whether the site poses a threat to human health or the environment.

The Dissolved Hydrocarbon Plume Is Not Migrating:

Hydrocarbon plume is stable and limited to the groundwater beneath the Chevron site in C-7 and Southfront Lane in C-9. The MTBE plume is localized in wells C-7, C-9, and C-11. Hydrocarbons

and MTBE in the wells are decreasing significantly. The consistent decreasing trend in hydrocarbon concentrations in groundwater indicates that in addition to removal of the former USTs and the groundwater remediation, natural attenuation is remediating the site hydrocarbons at a rate which exceeds the rate of hydrocarbon loading to groundwater. The hydrocarbon plume is decreasing in size and mass. In addition, low permeability lithology beneath the site has inhibited migration of dissolved hydrocarbons. Therefore, the hydrocarbon plume is not migrating. Natural attenuation is expected to continue to reduce the plume mass and concentration until all of the site hydrocarbons are remediated.

No Water Wells, Deeper Drinking Water Aquifers, Surface Water, or Other Sensitive Receptors are Likely to be Impacted:

California Department of Water Resources (DWR) well search data shows that one domestic well and five irrigation wells exist within a 2,000 foot radius of the site. However, DWR records also indicate these wells have been destroyed. Arroyo Las Positas is located approximately 300 feet south of the site. The hydrocarbon plume is stable and limited to the groundwater beneath Chevron station and Southfront Lane, and is decreasing in size and mass. The nearest residential buildings are located approximately ½ mile south of the site, a significant distance outside the plume area. The arroyo is located near the site but in the cross gradient direction. Therefore, no water wells, deeper drinking water aquifers or other sensitive receptors are likely to be impacted by the site hydrocarbons.

The Site Presents No Significant Risk to Human Health or the Environment:

To assess the potential health risks to occupants of the site and adjacent properties, Cambria compared hydrocarbon concentrations in soil and groundwater with environmental screening levels (ESLs) developed by the RWQCB (Table 2)[2]. There are no wells in the area, but the groundwater in the Livermore Valley Groundwater Basin has been designated as beneficial for agricultural and municipal uses.

Because groundwater in the basin has been designated beneficial for agricultural and municipal uses, hydrocarbon concentrations in wells C-7, C-9, and C-11, have been evaluated against the ESLs for the exposure scenario where groundwater is a current or potential source of drinking water. With the exception of 0.7 µg/L ethylbenzene detected in well C-7, which is well below the ESL of 30 µg/L, concentrations of BTEX in the groundwater samples collected from the currently monitored wells are below detection limits. TPHg concentrations of 1,100 µg/L in C-7 and 310 µg/L in C-9, exceed the ESL of 100 µg/L. However, groundwater monitoring data has demonstrated a decreasing trend in

THPg concentrations in both wells (Figures 3 and 4). TPHg in wells C-7 and C-9 are estimated to reach the ESL of 100 µg/L by May 2010 and October 2006, respectively. MTBE concentrations of 15 µg/L in C-7, 10 µg/L in C-9, and 9 µg/L in C-11 narrowly exceed the ESL of 5 µg/L. MTBE in wells C-7 and C-9 are estimated to reach the ESL of 5 µg/L by May 2006 and May 2004, respectively. Degradation graphs and calculations are presented as Attachment C. The hydrocarbon concentrations that exceed the ESLs do not appear to present a risk to human health because there are no water supply wells in the area and therefore, groundwater is unlikely to be used as a drinking source.

Soil concentrations were compared to the commercial ESLs and the ESLs for a drinking water resource. No commercial ESLs for shallow soil are exceeded. The only drinking water resource ESL exceeded was for MTBE. Although no soil analytical data is available from the vicinity of the former USTs, active site remediation and natural attenuation have reduced the hydrocarbon concentrations that were once present. Evidence of this is the continuing decrease in hydrocarbon concentrations in the site groundwater monitoring wells.

This is an active Chevron service station and it is not expected to be replaced with another commercial building in the foreseeable future. Therefore, construction workers are not expected to be exposed to residual hydrocarbons in the soil. The land is paved over in concrete and asphalt. The groundwater hydrocarbon plume is decreasing in size and mass and residual hydrocarbons in groundwater and soil are expected to continue to decrease by natural attenuation. Therefore, the current on-site and off-site conditions do not appear to present a significant risk to existing commercial occupants at the site, surrounding commercial and residential sites, or to surface water, wetlands or other ecological receptors. In the event that the site is redeveloped in the future, soil sampling beneath the tanks and piping would indicate whether the site posed a risk to development and, if so, mitigation measures could be taken at the time.

CONCLUSIONS AND RECOMMENDATIONS

Current and historical groundwater data show that the extent of dissolved TPHg, BTEX, and MTBE are defined in all directions. Current hydrocarbon concentrations in groundwater have exhibited a consistent decreasing trend in TPHg, BTEX, and MTBE as a result of source removal, groundwater remediation, and natural attenuation. Groundwater monitoring has shown that the residual hydrocarbon plume in groundwater is decreasing. Residual hydrocarbons in soil and groundwater do not appear to present a significant risk to existing commercial occupants or off-site receptors. Additionally, this site is a working Chevron service station and is not expected to be replaced with

2 RWQCB, *Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater*, dated July 2003.

another commercial building in the foreseeable future. Based on these considerations, we believe the site satisfies the RWQCB criteria for a low-risk fuel site. Therefore, on behalf of ChevronTexaco, we request case closure for the site.

CLOSING

We appreciate your assistance with this project. Please call Kiersten Connor at (916) 630 1855 x105 or Bruce Eppler at x102 if you have any questions or comments.

Sincerely,
Cambria Environmental Technology, Inc.

Kiersten Connor
Staff Scientist

Christopher B. Dennis, R.G.
Senior Project Geologist

REGISTERED GEOLOGIST
CHRISTOPHER B. DENNIS
No. 7184
Exp 8/31/05
STATE OF CALIFORNIA

Mr. Dennis conducted a review of this work through Cambria subcontract with Bay Consulting Services, LLC.

Figures:
1 – Vicinity Map
2 – Site Plan
3 – Concentrations in Groundwater in C-7
4 – Concentrations in Groundwater in C-9

Tables:
1 – Cumulative Analytical Results for Soil
2 – ESL Analysis

Attachments:
A – Well and Boring Logs
B - Gettler-Ryan's First Quarter 2004 Groundwater Monitoring and Sampling Report
C – Degradation Estimates

cc: Mr. Ms. Karen Streich, Chevron Products Company, PO Box 6004, San Ramon, CA 94583

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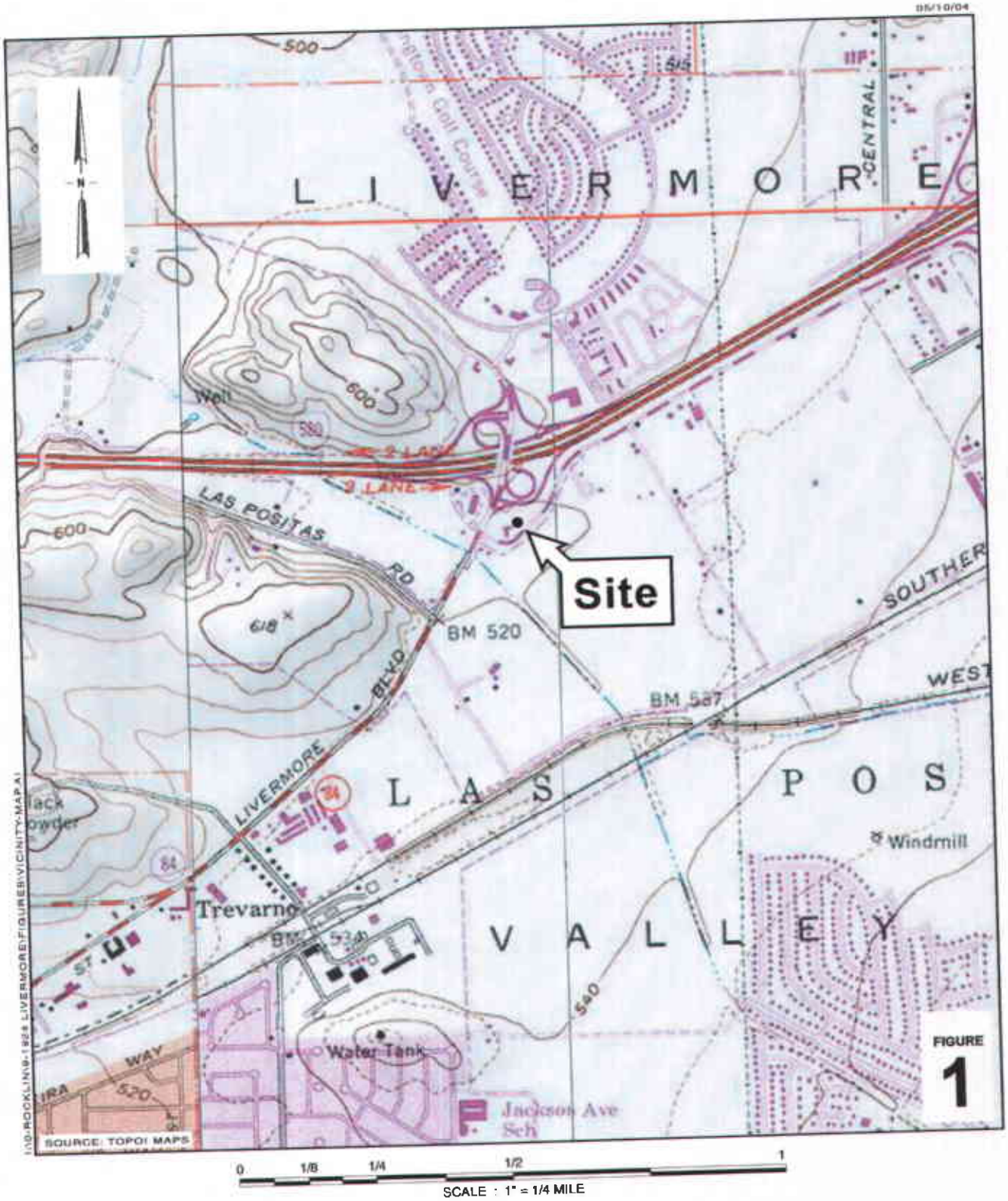

FIGURE 1

Vicinity Map

Chevron Service Station 9-1924

4904 Southfront Road

Livermore, California

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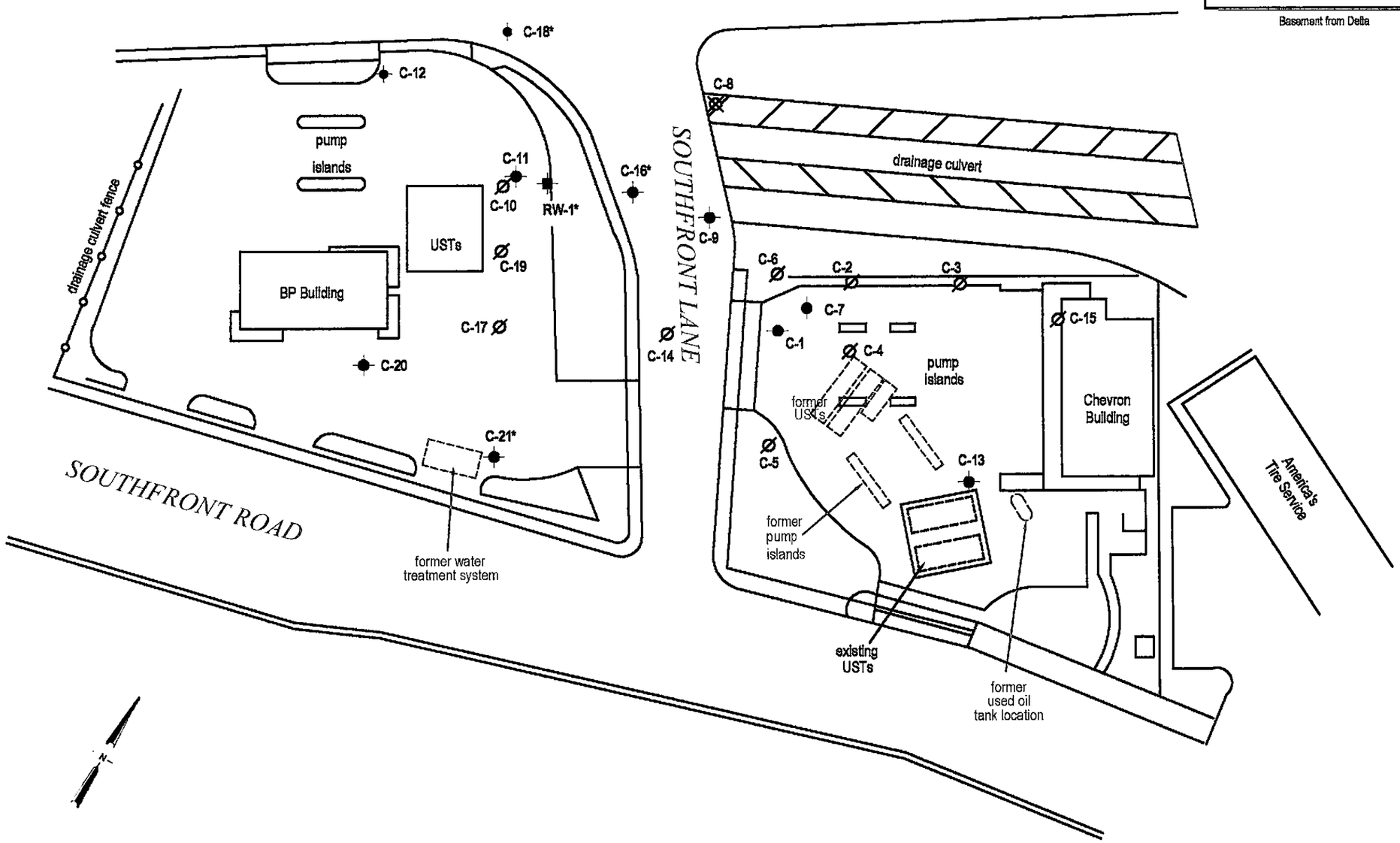
Site Plan

EXPLANATION

- C-1 — Monitoring well location
- C-2 — Destroyed monitoring well location
- C-8 — Abandoned monitoring well location
- RW-1 — Recovery well location
- * — Unable to locate well

Basement from Delta



FIGURE

2

Chevron Service Station 9-1924
4904 Southfront Road
Livermore, California

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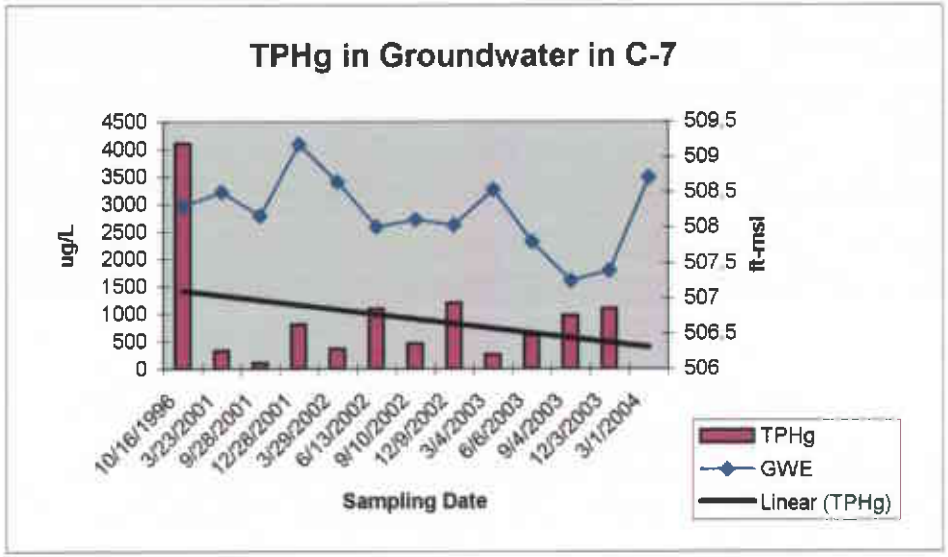
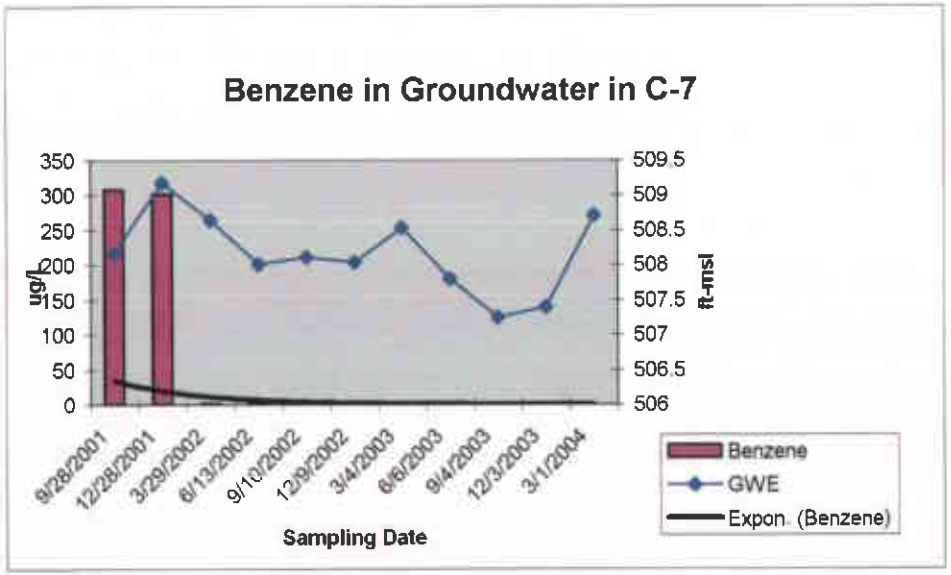
Figure 3. Concentrations in Groundwater in Well C-7. Chevron Service Station 9-1924, 4904 Southfront Rd., Livermore, CA

DATE	TPHg (ug/L)	Benzene (ug/L)	MTBE (ug/L)	GWE (msl)
10/16/1996	4100	40	3800	508.3
3/23/2001	329	0.25	38	508.5
9/28/2001	110	308	130	508.17
12/28/2001	800	301	42	509.18
3/29/2002	360	0.73	12	508.65
6/13/2002	1100	2.1	35	508.01
9/10/2002	460	0.25	52	508.11
12/9/2002	1200	3.1	70	508.04
3/4/2003	260	0.25	11	508.54
6/6/2003	610	0.25	20	507.8
9/4/2003	970	1	86	507.25
12/3/2003	1100	0.5	77	507.4
3/1/2004		0.25	15	508.71





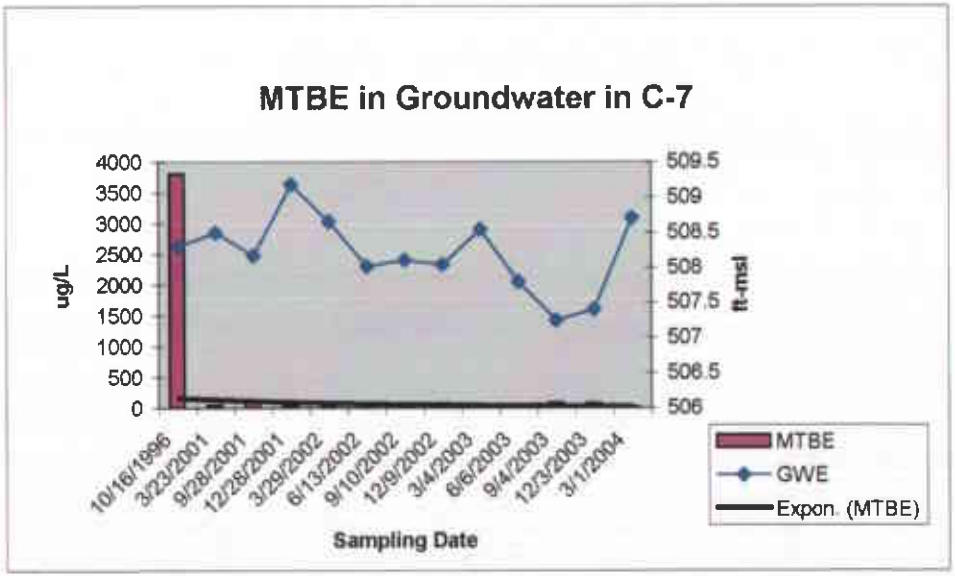
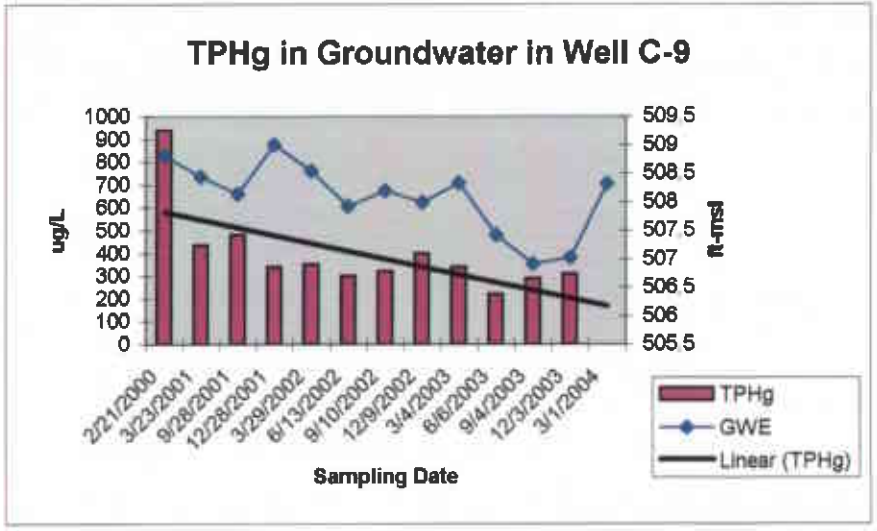
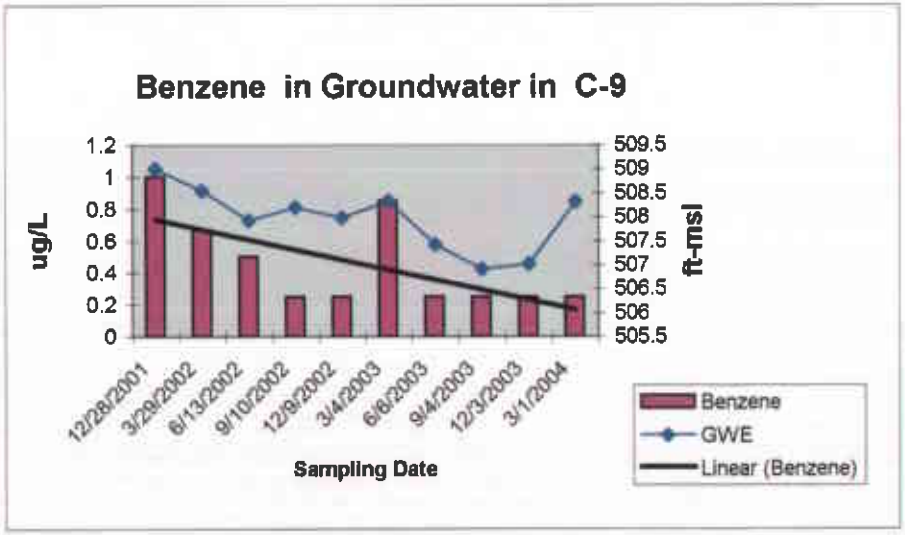


Figure 4. Concentrations in Groundwater in Well C-9. Chevron Service Station 9-1924, 4904 Southfront Rd., Livermore, CA

DATE	TPHg (ug/L)	Benzene (ug/L)	MTBE (ug/L)	GWE (msl)
10/16/1996	220	13	1300	508.42
4/10/1997	680	0.25	630	508.52
10/20/1997	650	11	1000	508.28
4/30/1998	880	4.4	200	509.11
10/7/1998	25	0.68	130	508.87
4/14/1999	534	3.28	94.4	508.89
2/21/2000	937	0.25	144	508.82
3/23/2001	434	0.25	22	508.44
9/28/2001	480	0.92	21	508.14
12/28/2001	340	1	17	509.01
3/29/2002	350	0.67	16	508.55
6/13/2002	300	0.5	5.9	507.93
9/10/2002	320	0.25	6.8	508.2
12/9/2002	400	0.25	15	507.99
3/4/2003	340	0.85	5	508.33
6/6/2003	220	0.25	4	507.42
9/4/2003	290	0.25	39	506.92
12/3/2003	310	0.25	49	507.03
3/1/2004		0.25	10	508.32





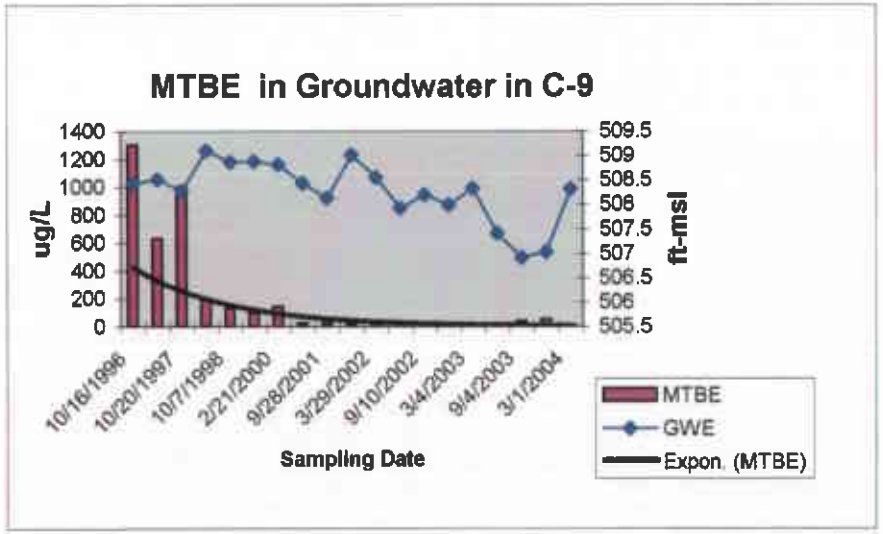


Table 1

Cumulative Analytical Results for Soil

Chevron Station #9-1924, 4904 Southfront Road, Livermore, CA

Sample ID	Depth (feet)	Date	TPHg	Benzene	Toluene	Ethylbenzene (mg/kg)	Xylenes	MTBE	Lead	TPHd
C-20	10	10/5/95	ND	ND	ND	ND	ND	NA	NA	-
C-21	10	10/5/95	ND	ND	ND	ND	ND	NA	NA	-
Product Lines										
P1	3	6/5/97	ND	ND	ND	ND	**0.0057**	**0.35**	**72**	-
P2	3.5	6/5/97	**2.1**	ND	**0.021**	**0.023**	**0.19**	**0.27**	**64**	-
P3	3	6/5/97	ND	ND	ND	ND	ND	**2.2**	**61**	-
P4	3	6/5/97	**1.5**	ND	ND	**0.016**	**0.047**	**0.38**	**79**	-
Product Lines										
PL1	3	4/7/00	<1	<0.0050	<0.0050	<0.0050	<0.0050	**0.086**	**11**	-
PL2	3	4/7/00	<1	<0.0050	<0.0050	<0.0050	<0.0050	**0.11**	**8.8**	-
PL3	3	4/7/00	**1.1**	<0.0050	**0.0056**	<0.0050	<0.0050	**0.54**	**11**	-
PL3	6	4/7/00	**3.6**	**0.0051**	<0.0050	**0.079**	**0.029**	**0.45**	**9.1**	-
PL4	3	4/7/00	<1	<0.0050	<0.0050	<0.0050	<0.0050	**0.57**	**40**	-
PL4	6	4/7/00	**2.8**	<0.0050	<0.0050	**0.0091**	**0.033**	<0.050	**10**	-
Used-oil UST										
WOT1	10	4/6/00	<1	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	**11**	<1.0
WOT2	10	4/6/00	<1	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	**9.5**	**1.5**

Abbreviations / Notes

TPHg = Total petroleum hydrocarbons as gasoline
TPHd= Total petroleum hydrocarbons as diesel
Benzene, toluene, ethylbenzene, and xylenes
MTBE = Methyl tertiary butyl ether
ND= Not Detected at or above lab detection limits

Table 2.
ESL Comparison
Chevron Station #9-1924, 4904 Southfront Road, Livermore, CA

Soil ESLs	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE
	(concentrations reported in mg/kg)					
Highest Soil Sample Concentration	**3.6**	**0.0051**	**0.021**	**0.079**	**0.19**	**2.2**
ESLs-Soil Screening Levels for evaluation of potential indoor-air impacts for **Commercia/Industrial Exposure (Table E-1b)**	*29,000*	*0.5*	*420*	*13*	*100*	*5.6*
ESLs for Direct-Exposure for a **Commercial/ Industrial Worker (Table K-2)**	*5,800*	*0.38*	*440*	*19*	*180*	*70*
ESLs for Direct-Exposure for a **Construction/Trench Worker (Table K-3)**	*23,000*	*17*	*650*	*400*	*180*	*2,800*
ESLs for Leaching Concerns for a **Drinking Water Resource (Table G)**	*100*	*0.044*	*2.9*	*3.3*	*180*	*0.023*
ESLs for Leaching Concerns for a **Non-Drinking Water Resource (Table G)**	*400*	*2*	*9.3*	*320*	*180*	*8.4*

Groundwater ESLs	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE
	(concentrations reported in ug/L)					
Highest Groundwater Concentration From the Most Recent Sampling Event	**1,100**	**<0.5**	**<0.5**	**0.7**	**<0.5**	**15**
ESLs - Groundwater Screening Levels for evaluation of **potential risk to human health** where groundwater is IS a current or potential source of drinking water **(Table F-1a)**	100	1	40	30	13	5
ESLs - Groundwater Screening Levels for evaluation of **potential risk to human health** where groundwater is NOT a current or potential source of drinking water **(Table F-1b)**	500	46	1,300	290	13	1,800
ESLs - Groundwater Screening Levels for evaluation of **potential impacts** where groundwater IS a current or potential source of drinking water **(Table I-1)**	100	170	40	30	20	5
ESLs - Groundwater Screening Levels for evaluation of **potential impacts** where groundwater is NOT a current or potential source of drinking water **(Table 1-2)**	5,000	200	400	300	5,300	18,000
ESLs - Groundwater Screening Levels for evaluation of potential indoor-air impacts for **Commerical/Industrial** land use in high permeability vadose soil **(Table E-1a & E-2)**	*29,000*	*1,800*	*530,000*	*47,000*	*160,000*	*80,000*

Abbreviations/Notes:

TPHg = Total petroleum hydrocarbons as gasoline

TPHd = Total petroleum hydrocarbons as diesel

MTBE = Methyl-tertiary butyl ether

mg/kg = milligrams per kilogram

ug/L = micrograms per liter

NA = Not available

ESL = Environmental screening level, from: *Screening For Environmental Concerns At Sites With Contaminated Soil and Groundwater*, dated July 2003, by the Regional Water Quality Control Board-San Francisco Bay Region.

CAMBRIA

ATTACHMENT A

Well and Boring Logs

LOG OF EXPLORATORY BORING

EMCON ASSOCIATES

PROJECT No. [illegible] DATE [illegible]

CLIENT [illegible]

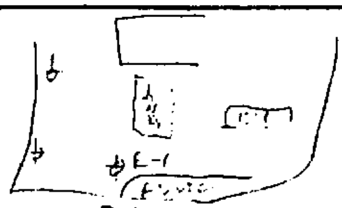
LOCATION [illegible]

LOGGED BY [illegible] DRILLER [illegible]

BORING No. C-1

Sheet ___ of ___

Field location of boring:



Ground Elev. Datum

Drilling method [illegible]

Hole dia. [illegible]

Casing installation data 20 ft. 3" PVC lower 12' slotted; 2 [illegible] sand to 6, ben/concrete [illegible] to surface

Water level	13.5±	13		
Time	[illegible]	1 pm		
Date		12/2?		

Pocket Torr vane TSF	Pocket Penetrometer TSF	Blows/ft. or Pressure PSI	Type of Sample	Sample Number	Depth	Sample	Soil Group Symbol (U.S.C.S.)	DESCRIPTION
							CL	AC
					2			CL - Olive (5Y 4/3) to black (5Y 2.5/1) [illegible] silty CLAY FILL, [illegible] crs gravel - damp, no odor
					4			
	2.60 (7.1)	6/10/14 18" drive	St Pen rec 95%	1	6			
					8			CL - [illegible] (5Y 5/?) [illegible] SAND & fine sandy CLAY, contains root holes, [illegible] fossil [illegible]
	1.55	6/11/13 18" drive	MOD rec [illegible]	2	10			
					12			
					14			- [illegible]
	NT	4/7/9 18" drive	St Pen rec 100%	3	16		SC	SC - Yellow [illegible] (10YR 5/6) [illegible] root holes, [illegible] damp [illegible]
					18		CL	CL - Light gray (10YR 7/2) silty CLAY, [illegible] root holes [illegible] sand, damp, no odor
	[illegible]	6/8/12 18" drive	St Pen rec	4	20			
					22			- T.D. 21.5 [illegible]
					24			
					26			
					28			

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PRELIMINARY

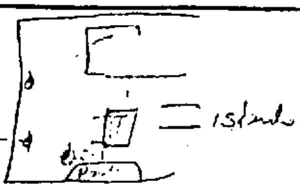
LOG OF EXPLORATORY BORING

EMCON ASSOCIATES

PROJECT No. 432-59.01 DATE 12/21/84
CLIENT G.R.
LOCATION Livermore
LOGGED BY Cwp DRILLER HEW

BORING No. C-2
Sheet 1 of 1

Field location of boring:



Ground Elev. Datum

Drilling method Hollowstem
Hole dia. 8"
Casing installation data Cased w/ 25' 3" PVC lower 15 slot Sand to 8 bent. top conc 7400 vault

Water level	1st 17 ± - could be held by augers		
Time	155		
Date	12/21		

Pocket Torr vane TSF	Pocket Penetrometer TSF	Blows/ft. or Pressure PSI	Type of Sample	Sample Number	Depth	Sample	Soil Group Symbol (U.S.C.S.)	DESCRIPTION
								AC
							FILL	CL - Dark yellowish brown (10YR 3/4) slightly fine sandy silty CLAY - damp FILL
	2.5	5/8/12 18" drive	St Pen rec 100%	1				- clr black (5Y 2.5/1) minor 5% < fine sand dissem, no odor - damp
	NT	6/15/17 18" drive	MOD rec 50%	2			CL	CL - Yellowish brown (10YR 5/4) dissem fine sandy silty CLAY some root holes or burrows limonite mottles (fluctuating water table?) - damp
	3.10	5/7/11 18" drive	St Pen rec 100%	3				- contains rare fine gravel and 10% dissem fine sand no odor - damp very stiff
							SC	SC - Clayey fine SAND, wet no sample interval same as in C-1
	NT	12/18/16 18" drive	St Pen rec 100%	4			CL	CL - Light gray (10YR 7/2) silty CLAY, contains dissem fine sand (5% <) appears strongly oxidized and leached very stiff - damp
					24			
	2.0	5/8 12" drive	St Pen/SS	5	26			- clr change to dark gray brown (10YR 4/2) - damp
					28			TD 26.5 prove 5+ feet clay end in clay aquitard
					30			

NOTE - odor from hole of "fresh" gas assume some on water

1/8" pond on vault

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PRELIMINARY

EMCON ASSOCIATES

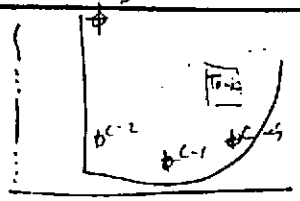
LOG O. EXPLORATORY BORING

C-3

PROJECT No. 438-5101 DATE 12/21/84
CLIENT GR
LOCATION Livermore
LOGGED BY CMP DRILLER HEW

BORING No. C-3
Sheet 1 of 1

Field location of boring:



Ground Elev. Datum

Drilling method Hollow stem
Hole dia. 8"

Casing installation data 20 ft 3" PVC
lower 12 slotted sand to 6
bent. 6-5 concrete 5-0 vault

Water level	14' ±			
Time	400			
Date	12/21			

Pocket Torr vane TSF	Pocket Penetrometer TSF	Blows/ft. or Pressure PSI	Type of Sample	Sample Number	Depth	Sample	Soil Group Symbol (U.S.C.S.)	DESCRIPTION
					2		CL	AC CL - Black (5Y 2.5/1) sandy slightly gravelly silty CLAY, FILL - damp to moist
	1.0	5/14/7 18"	SS rec 80%	1	6			- as above, no odor
	3.8	6/6/12 18"	SS rec	2	10		CL	CL - Brown (10YR 5/3) slightly fine sandy silty CLAY sand 5% ± very stiff no odor - root hole. iron and infilled - damp; iron root holes open
	2.5	6/9/11 18"	SS rec 100%	3	16		SC CL	SC - Brown (10YR 5/3) clayey fine SAND very faint odor, stiff, wet root holes - wet decrease odor 16 to 16.5 CL - Brown (10YR 5/3) and lt brown (10YR 7/2) silty CLAY contains discrete fine sand - 10% and fine gravel - 5% in dry matrix, no odor damp - very stiff - damp all color light gray (10YR 7/1
	4.25	6/7/12 18"	SS rec	4	20			TD @ 21.5 in ST. fr clay and like as in C-1, C-2, C-5

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PRELIMINARY

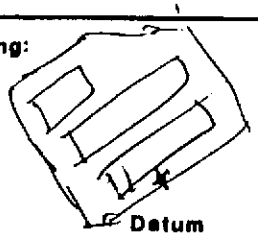
LOG OF EXPLORATORY BORING

EMCON ASSOCIATES

PROJECT No. 438-55.1 DATE 1-3-85
CLIENT GR Chevron
LOCATION LIVERMORE
LOGGED BY GT DRILLER XD

BORING No. C-4
Sheet 1 of ___

Field location of boring:



Ground Elev.

Drilling method 7½" HS
Hole dia. 7½"

Casing installation data 3" PVC SLOT 23-9, BLANK TO SURF. SAND TO 8, BC TO SURF

Pocket Torr vane TSF	Pocket Penetrometer TSF	Blows/ft. or Pressure PSI	Type of Sample	Sample Number	Depth	Sample	Soil Group Symbol (U.S.C.S.)	DESCRIPTION
								Asphalt
					2		CL	CLAY Black (5Y 2.5/1), 5% sand, 5% fine to medium gravel, damp, slight prod odor
					4		SW	SAND Greyish brown (2.5Y 5/2) 0-5% clay, 50% fine gravel, 90% fine to med sand, damp strong prod wet odor
					6			
					8			8.5-9.5: saturated w/ gas
		1/2/4	STP 100%		10		CL	CLAY Olive (5Y 5/3), 0-5% fine sand, 5% silt, 90% fines, white caliche mottle - moist, very strong gas odor
					12			~12.5-14': saturated w/ black gas (old?)
		15/14/22	STP 100%		14	▽		~13.0'-16.0' increase fine to medium sand (~10%), much white discoloration (wet, very slight gas odor)
					16			16.5'-23': much discoloration (leaching?), stiff, damp, no gas odor
					18			
		5/18/20	STP 100%		20			
					22			
					24			HOLE TERMINATED: 6.I.O.
					26			

Water level				
Time				
Date				

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PRELIMINARY

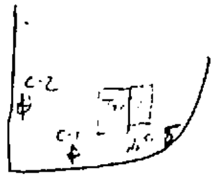
LOG OF EXPLORATORY BORING

EMCON ASSOCIATES

PROJECT No. 431-[illegible] DATE [illegible]
CLIENT [illegible]
LOCATION [illegible]
LOGGED BY [illegible] DRILLER [illegible]

BORING No. C-5
Sheet 1 of 1

Field location of boring:



Ground Elev. Datum

Drilling method [illegible]

Hole dia. [illegible]

Casing installation data: Case w/ 20' 3" PVC
[illegible] 12 slotted sand to 6 bent. to 5
concrete to 0

Water level	14'±			
Time	2:53			
Date	12/21			

Pocket Torr vane TSF	Pocket Penetrometer TSF	Blows/ft. or Pressure PSI	Type of Sample	Sample Number	Depth	Sample	Soil Group Symbol (U.S.C.S.)	DESCRIPTION
								2" AC over baserock to 12"
					2		CL	CL - Black (5Y 2.5/1) silty CLAY FILL, contains some crs gravel. damp to moist
		4/7/13 18"	SS rec 0	1	4			
		lost sampler			6			[illegible] odor
					8		CL	CL: Olive gray (5Y 5/2) silty CLAY fine sand lessen in clay matrix 2%< faint petrol odor
NOTE- [illegible]	3.1	5/9/11 19"	SS rec 100%	2	10			root holes infilled with clay, occ. open root holes 1% ± some gray discoloration [illegible] Se. change to olive [illegible] 10YR 5/01
					12			
					14		SC	SC - Yellowish brown (10YR 5/8) Clayey fine SAND in clay matrix very faint odor locally very
SC→	1.5	4/7/10 18"	SS rec 100%	3	16			sandy wet. [illegible] @ 16.5
CL→	2.5				18		CL	CL - Light gray (10YR 7/2) silty CLAY stiff appears [illegible] damp
	1.5	6/9/ 12"	SS rec 100%	4	20			
								TD 21.0 into same clay aquitard as C-1, C-2

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PRELIMINARY

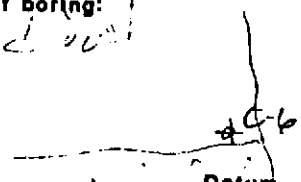
LOG OF EXPLORATORY BORING

EMCON ASSOCIATES

PROJECT No. 438-551 TE 1-3-95
CLIENT Gt Chevron
LOCATION LIVERMORE
LOGGED BY SM DRILLER XD

BORING No. C-6
Sheet ___ of ___

Field location of boring:



Ground Elev. 0' Datum

Drilling method 7½" HS
Hole dia. 7½"

Casing installation date 3" PVC SLOT 22-7
BLANK TO SURF. SAND TO 6',
BC TO SURF.

Water level				
Time				
Date				

Pocket Torr vane TSF	Pocket Penetrometer TSF	Blows/ft. or Pressure PSI	Type of Sample	Sample Number	Depth	Sample	Soil Group Symbol (U.S.C.S.)	DESCRIPTION
					2		CL	Asphalt & coarse gravel base CLAY (FILL) Black to dk brown (5Y2.5/1)-(5Y4/3) ~50% fine to medium sand, 10-15% silt, 80-85% fines - trace medium gravel, - damp
					4			
					6			
					8			
		15/20/18	STP		10		SW	SAND dk brown (7.5YR 3/4) 0-5% fines, 40% fine to med gravels, 85-90% fine to coarse SAND - moist, STRONG GAS ODOR
					12			
					14		▽	(wet)
	2.0	6/6/9	STP		16		CL	CLAY Pale yellow (2.5Y 7/4), 0-5% silt, white caliche mottle, moist, no gas odor, occ. open root holes
					18			
		15/17/18	STP		20			~19.0 - 22.0' slightly sandy (~5%) with abundant leaching & discoloration
					22			H.T.: 5I0
					24			
					26			
					28			
					30			

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PRELIMINARY

LOG OF EXPLORATORY BORING

EMCON ASSOCIATES

PROJECT No. 436 ~~4-T~~ DATE 1-3-85
CLIENT GR Chevron
LOCATION Livermore
LOGGED BY GR DRILLER XD

BORING No. C-7
Sheet 1 of 2

Field location of boring: [illegible] +C-4 +C-7

Ground Elev. Datum

Drilling method 7½" HS
Hole dia. 7½"

Casing installation date 3" PVC SLOT 22-7, BLANK TO SURF. SAND TO 6, BC TO SURF.

Water level				
Time				
Date				

Pocket Torr vane TSF	Pocket Penetrometer TSF	Blows/ft. or Pressure PSI	Type of Sample	Sample Number	Depth	Sample	Soil Group Symbol (U.S.C.S.)	DESCRIPTION
								Asphalt 2" ± 8" crs gravel bsrx
					2		CL	CLAY (Fill) Dk brown to black (5Y2.5/1 - 5Y4/3) ~5% fine to medium sand, ~10% silt, [illegible] clay, trace fine to coarse gravel, damp, no gas odor
					4			
					6			
					8			
					10		CL	CLAY Olive (5Y5/3) 5-10% silt & very fine sand, moist to wet, strong gas odor
					12			12'-16': 30-40% silt & fine sand
	2.5	12/14/14	STP 100%		14	X		13'-14.5': Thin 1"-2" stringers of clayey fine Sand - moist, nearly saturated w/ gas
					16		▽	
					18			16.5-22: DECREASE silt & sand to 5-10%, heavily oxidized & leached - stiff - damp, no gas odor
	3.0	5/10/15	STP 100%		20	X		
					22			H.T. = S.I.O.
					24			
					26			

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PRELIMINARY

LOG OF EXPLORATORY BORING

EMCON ASSOCIATES

PROJECT No. 438 DATE 1-3-85
CLIENT GR Chevron
LOCATION Livermore
LOGGED BY SD DRILLER XD

BORING No. C-8
Sheet 1 of

Field location of boring:

Ground Elev. Datum

Drilling method 7½" HS
Hole dia. 7½"

Casing installation data 3" PVC SLOT 22½ 7, BLANK TO SURF, SAND TO 6, BC TO SURF

Water level									
Time									
Date									

Pocket Torr vane TSF	Pocket Penetrometer TSF	Blows/ft. or Pressure PSI	Type of Sample	Sample Number	Depth	Sample	Soil Group Symbol (U.S.C.S.)	DESCRIPTION
								3" Asphalt 9.6" cr6 gravel base
					2		CL Fill	CLAY (Fill) Grayish brown (2.5Y 4/2), 5-10% fine to coarse sand, 10% silts - damp
					1		GW Fill	GRAVEL (Fill) Grayish brown (2.5Y 4/2) 25-30% medium to coarse SAND, 70-75% fine to medium gravel - damp
					6		CL Fill	CLAY Fill Dk brown (7.5YR 4/4) ~5% fine to medium sand, 5-10% silts, 85% clay, trace gravel - damp mc
					8			
	1.75	5/6/12	STP		10	X	CL	CLAY Olive (5Y 5/3), 0-5% fine sand, 5% silts, 90% clays, caliche & Fe oxide mottle - damp mc
					12			
					14			
		11	STP		16	X		14.5'-23': clay becomes heavily leached & oxidized, stiff - damp w/ root frags, trace coarse sand
					18			
	4.5	9/19/19	STP		20	X		
					22			
					24			T.H: 51.0
					26			
					28			
					30			
					32			
					34			
					36			

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PRELIMINARY

LOG OF EXPLORATORY BORING

EMCON ASSOCIATES

PROJECT No. 439 TE 1-3-91
CLIENT GR Chevron
LOCATION LIVERMORE
LOGGED BY GG DRILLER XD

BORING No. C-9
Sheet ___ of ___

Field location of boring:

Drilling method 7½" HS
Hole dia. 7½"

Casing installation data 3" PVC SLOT 23-7, BLANK TO SURF. SAND TO 6, BENT TO SURF

Ground Elev. Datum

	Water level				
	Time				
	Date				

Pocket Torr vane TSF	Pocket Penetrometer TSF	Blows/ft. or Pressure PSI	Type of Sample	Sample Number	Depth	Sample	Soil Group Symbol (U.S.C.S.)	DESCRIPTION
								3 inches of 6" rock ground cover
					2		CL	CLAY (Fill) Grayish brown (2.5Y 4/2) 5-10% fine to coarse sand, 10% silt, trace fine to coarse gravel - damp
					4		FILL	4.0-4.5': coarse sandy GRAVEL Fill - damp
					6			4.5-5': Black (5Y 2.5/1) increase sand (50%)
					8		CL	
	1.75	5/8/10	STP		10	X		CLAY - Olive (5Y 5/3), 5-10% silts, 15-20% fine sand, 70-75% clay - Ferric stain & particles - damp, strong gas odor, trace medium sand
					12			
					14			
	2.0	7/10/13	STP		16	X		(Decrease silt (~5%) & fine sand (~5%), rootholes moist) (slight gas odor
					18			~17.0-20': clay becomes leached & discolored, stiff, damp, no petrol odor
	4.0	8/9/10	STP		20	X		
					22			
					24			HT: SID.
					26			
					28			
					30			

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PRELIMINARY

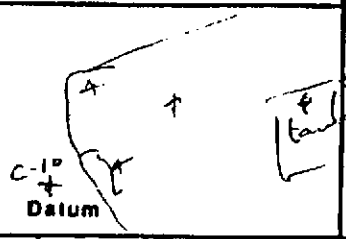
LOG OF EXPLORATORY BORING

EMCON ASSOCIATES

PROJECT No. 436-554 TE 1-3-85
CLIENT GR Chevron
LOCATION LIVERMORE
LOGGED BY DM DRILLER XD

BORING No. C-10 & C-11
Sheet ___ of ___

Field location of boring:



Drilling method 7½" HS
Hole dia. 7½"

Casing installation data 3" PVC SLOT - BLANK TO SURF. SAND TO ___, DC TO SURF.

Water level				
Time				
Date				

Pocket Torr vane TSF	Pocket Penetrometer TSF	Blows/ft. or Pressure PSI	Type of Sample	Sample Number	Depth	Sample	Soil Group Symbol (U.S.C.S.)	DESCRIPTION
					0			3" Asphalt & 6" CMS ground base
					2		CL	CLAY (Fill) Grayish brown (2.5Y 4/2), 5-10% fine to coarse sand, 10% silt, ~~10-15%~~ damp
					4		GW	GRAVEL
					6			BORING TERMINATED - HIT CONCRETE BUT DID NOT PENETRATE
					8			
					10			
					12			
					14			
					16			
					18			
					20			
					22			
					24			
					26			
					28			
					30			

9 - 23' 16/7
8 - 22½ 16/6½'
7 - 22 16/6
6 - 22 16/6
4 - 23' 16/7

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PRELIMINARY

LOG OF EXPLORATORY BORING

EMCON ASSOCIATES

MOBIL C-12

PROJECT No. 438-561 DATE 1-10-85
CLIENT GR Ch ON
LOCATION LIVERMORE
LOGGED BY SA DRILLER XD

BORING No. C-12 Sheet ___ of ___

Field location of boring: (10)

Ground Elev. 84 Datum

Drilling method 7½" HS
Hole dia. 7½"

Casing installation data 3" PVC SLOT 20 - 10, BLANK TO SURF. SAND TO 9, BC TO SURF.

Water level									
Time									
Date									

Pocket Torr vane TSF	Pocket Penetrometer TSF	Blows/ft. or Pressure PSI	Type of Sample	Sample Number	Depth	Sample	Soil Group Symbol (U.S.C.S.)	DESCRIPTION
								Asphalt
					2		CL	CLAY (Fill) Dk. grayish brown (2.5Y 3/2), 0-5% silt, trace sand & fine gravel - damp, nco
					4			
					6			
					8			
	2.5	7/8/11	STC 75% 18"		10	X		Light Olive gray (5Y 6/2), 5% fine to coarse sand, 5-10% silt, damp, no gas odor - iron stained, firm
					12			
		27/45+	STP 100% 12"		14		GW	SANDY GRAVEL, Brown (10YR 4/3), 0-3% clay binder, 35-40% fine to coarse sand, 55-60% fine to coarse gravel - wet, nco, trace rounded cobble size gravel
					16	X		
					18		GC	CLAYEY GRAVEL - Olive (5Y 5/3), ~15% silty clay binder, 20% fine to coarse sand, 65% fine to coarse gravel -
		16/30/-	STP 0%	12"	20	X		
		14/36/-	SPP	12"	22	X		
					24			B.T.: 21.0
					26			Pulled augers - hole caved to 18½ ft. Pushed casing to 20'
					28			
					30			
					32			

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PRELIMINARY

EMCON ASSOCIATES

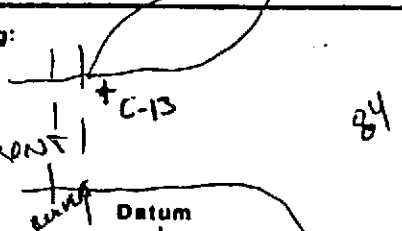
LOG OF EXPLORATORY BORING

npv = no product odor

PROJECT No. 438-56.1 DATE 1-10-89
CLIENT CR Chevron
LOCATION LIVERMORE
LOGGED BY SM DRILLER XD

BORING No. C-13
Sheet 1 of 1

Field location of boring:



Drilling method 7½" HS
Hole dia. 7½"

Casing installation data 3" PVC SLOT BLANK TO SURF. SAND TO , BC TO SURF.

Ground Elev. Datum

Water level				
Time				
Date				

Pocket Torr vane TSF	Pocket Penetrometer TSF	Blows/ft. or Pressure PSI	Type of Sample	Sample Number	Depth	Sample	Soil Group Symbol (U.S.C.S.)	DESCRIPTION
								Asphalt
					2		CL	CLAY (Fill) - Dk brown, 20% fine to coarse sand, trace gravel, damp, no odor
					4		SW	GRAVELLY SAND - Light olive brown (2.5Y 5/4) 25-30% fine gravel, 70% - 75% fine to coarse gravel, damp, no gas odor
					6			TERMINATED HOLE: HIT CONCRETE UTILITY
					8			
					10			
					12			
					14			
					16			
					18			
					20			
					24			
					26			
					28			
					30			

PRELIMINARY DRAFT

LOG OF EXPLORATORY BORING

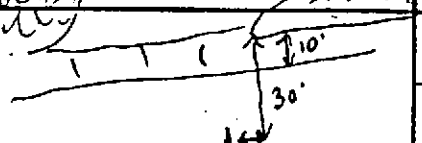
EMCON ASSOCIATES

Chevron

PROJECT No. 438-56.1 DATE 1-10-85
CLIENT GR Chevron
LOCATION Livermore
LOGGED BY _____ DRILLER _____

BORING No. C-14
Sheet ____ of ____

Field location of boring:



upo = no product odor

Ground Elev. Datum

Drilling method 7½" HS
Hole dia. 7½"

Casing installation data HOLE BACKFILLED W/CONCRETE TO 22', 3" PVC SLOT 20-10, BLANK TO SURF. SAND TO 9', BC TO SURF.

Water level				
Time				
Date				

Pocket Torr vane TSF	Pocket Penetrometer TSF	Blows/ft. or Pressure PSI	Type of Sample	Sample Number	Depth	Sample	Soil Group Symbol (U.S.C.S.)	DESCRIPTION
								Asphalt Concrete
					2		CL	SILTY CLAY, Very dark gray (5Y 3/2), 20% silt, firm - damp, upo
					4			3-4': 10% fine to coarse sand, 10% fine to medium gravel
					6			6-9': Yellowish brown (10YR 11/4), 10% well graded sand, 35% well graded gravels, well rounded - damp, upo
					8			
		6/24/35	STP 75%		10	X	SW	GRAVELLY SAND - Brown (7.5YR 5/4), 5% silty clay binder, 25-30% well graded well rounded gravels, 69-70% well graded sand - moist to wet, strong product odor
					12			
					14		▽	
	3.0	5/7/9	STP 100%		16	X	CL	CLAY - (5Y 7/4) Pale yellow, 0-5% silt, white caliche discoloration, damp upo
					18			
	4.5	9/17/22	STP 100%		20	X		19': Becomes stiff w/ trace fine sand, upo
					22			
					24			(Trace iron oxide stain & particles)
	4.0	6/6/10	STP 100%		26	X		
					28			
	1.5	7/8/13	STP 100%		30	X		Olive (5Y 5/4)
					32			29.5': Becomes very silty (30-35%), no caliche mottle, iron oxide stains, moist to wet
	1.5	15/9/20	STP		34	X		
					36			T.H.: SIO
					38			

DRAFT

PRELIMINARY

J. H. KLEINFELDER & ASSOCIATES

GEOTECHNICAL CONSULTANTS — MATERIALS TESTING

BORING LOG

HOLE NO.	PROJECT NO.	PROJECT	SHEET
C-16		Chevron	1 OF 2

MFG. DESIGNATION OF DRILL	LOCATION
CME 75	4707 First St Livermore, CA

TYPE OF BIT: 10" Hollow Stem — HAMMER DATA: WT. 140 LBS. DROP 30 INCHES — ELEV.: — TOTAL DEPTH OF HOLE: 36.5'

DATE: STARTED 10:00 1-9-83 — DRILLING AGENCY: Kleinfelder

COMPLETED 3:00 1-9-83 — INSPECTOR: Eric Findlay — GROUNDWATER DEPTH 20.6' — TIME

BACKFILLED — CREW: Ron + Randy Oahley

SURFACE CONDITIONS

DRAFT

DIST. FROM SURF.	LEGEND	SAMPLE TYPE	SAMPLE NO.	RECOVERY	BLOWS PER 6 IN.	USCS	LOG OF MATERIAL
0							Asphalt 4"
2–3						Sand Back Grout / Blank	SILT, Brown - Little Clay - Little Gravel - 1" rounded - Stiff - Low Plasticity, Moist NOSC.
5–6						Sand / Screen	CLAY - Brown, Little Silt Soft, High Plasticity, Moist NOSC
8	SS			2"	2 / 2 / 3		CLAY - Brown - Little tan Silty Clay - Soft, High Plasticity, Moist NOSC, Trace fine gravel angular ⅛ to ¼".
10	SS			2"	1 / 2		~~Silt~~ CLAY - Dark Brown - Soft High Plasticity, NOSC Moist. Bottom of sampler - Fine Gravel Some Sand - ¼" rounded poorly sorted
12.5	SS			18"	5 / 6 / 9		SILTY CLAY - Tan Little Gravel Poorly sorted ½" sub rounded, Stiff, Low Plasticity, Moist, NOSC Trace Black Organics.
15	SS			12	9 / 10 / 16	fill	Gravelly CLAY - Tan w/ light grey Mottling, Gravel and Sand Poorly Sorted ¼" rounded Very Stiff - Low Plasticity, Moist NOSC - Little Silt.
18	SS			18	4 / 6 / 9		SILTY CLAY - Tan - Rust Staining White Areas ¼" silt - (Chalky) Stiff - Med to high Plasticity Moist NOSC.
20	SS			18	4 / 6 / 12		CLAYEY SILT, Tan - Rust Staining Trace fine gravel ⅛" subangular Very Stiff, Medium Plasticity Slightly Wet, NOSC

JHK&A Form L-23A — SHEET — OF — HOLE NO.

J. H. KLEINFELDER & ASSOCIATES
GEOTECHNICAL CONSULTANTS — MATERIALS TESTING

BORING LOG

HOLE NO.	PROJECT NO.	PROJECT	SHEET OF
C-16			2/2

MFG. DESIGNATION OF DRILL	LOCATION

TYPE OF BIT	HAMMER DATA: WT. LBS. DROP INCHES	ELEV.	TOTAL DEPTH OF HOLE
DATE STARTED	DRILLING AGENCY		
DATE COMPLETED	INSPECTOR	GROUNDWATER DEPTH	TIME
DATE BACKFILLED	CREW		
SURFACE CONDITIONS			

DRAFT

DIST. FROM SURF.	LEGEND	SAMPLE TYPE	SAMPLE NO.	RECOVERY	BLOWS PER 6 IN.	USCS	LOG OF MATERIAL
20						▽ 20.6	
25	SS		—	18	6 9 23		Sandy Silt tan - Fine Sand - Stiff Med Plasticity - Moist NOSC
							SAND - tan - Trace fine gravel ¾" poorly sorted, fine to medium Sand Some Silt. Medium Dense, Wet NOSC
30	SS		—	18	4 6 9		CLAY - Tan - Trace Black Organics Stiff - High Plasticity, Wet NOSC
							Screen
35	SS		—	18	4 19 32		SAND - GREY - Very Dense - Wet NOSC Fine to Medium Sand

J. H. KLEINFELDER & ASSOCIATES

GEOTECHNICAL CONSULTANTS — MATERIALS TESTING

BORING LOG

HOLE NO.	PROJECT NO.	PROJECT	SHEET
C-17		Chevron	OF 1/2

MFG. DESIGNATION OF DRILL	LOCATION
CME-75	4707 First St Livermore, CA

TYPE OF BIT	HAMMER DATA: WT. 140 LBS. DROP 30 INCHES	ELEV.	TOTAL DEPTH OF HOLE
DATE STARTED 2:23 - 1-9-83	DRILLING AGENCY Kleinfelder		30
DATE COMPLETED 6:00 1-9-83	INSPECTOR E Findley	GROUNDWATER DEPTH 17.5'	TIME
DATE BACKFILLED	CREW Ron + Randy Oakley		

SURFACE CONDITIONS

DRAFT

DIST. FROM SURF.	LEGEND	SAMPLE TYPE	SAMPLE NO.	RECOVERY	BLOWS PER 6 IN.	USCS	LOG OF MATERIAL
0						3"	Asphalt 1' - In Street S. Front
1						Gravel	
2						Base	
3						Sand Backfill	
4							
5	SS			12	2	Sand	SILTY CLAY Black
6					5		Trace Root Fragments Stiff, High
7					6	Screen	Plasicity, NOSC Moist.
8	SS			10	5		CLAY - Tan - Little Silt
9					6		Light grey or white mottling
10	SS			16"	8		Rust Staining - Black Organics (Trace)
11					7		Very Stiff, High Plasticity, Moist NOSC
12					11		SILTY CLAY - Tan - light grey mottling
13	SS			18	13		Trace fine gravel 1/4" rounded
14					7		Rust Staining Very Stiff, Med Plasticity
15	SS				10		NOSC Moist
16					13		
17					4		CLAY - TAN & Rust Little
18				18	5	First	Silt - Trace black Organics
19					6		Rust staining - Very Stiff - Med
20					8		Plasticity Moist - Slight Gas Odor, CLAY - TAN - Black Organics
21					10		1) fissures (roots) Stiff - Med
							Plasticity Moist - Slight Gas
							Odor
							CLAY - Tan w White Mottling
							Trace Rust Staining, Very Stiff
							Low to Medium Plasticity, Mc
							Wet NOSC - Trace Black Organics

JHK&A Form 1-234

SHEET _____ OF _____ HOLE NO. _____

J. H. KLEINFELDER & ASSOCIATES
GEOTECHNICAL CONSULTANTS — MATERIALS TESTING

BORING LOG

DRAFT

HOLE NO.	PROJECT NO.	PROJECT	SHEET
C-17			OF 2/2
MFG. DESIGNATION OF DRILL		LOCATION	

TYPE OF BIT	HAMMER DATA: WT. LBS. DROP INCHES	ELEV.	TOTAL DEPTH OF HOLE
DATE STARTED	DRILLING AGENCY		
DATE COMPLETED	INSPECTOR	GROUNDWATER DEPTH	TIME
DATE BACKFILLED	CREW		
SURFACE CONDITIONS			

DIST. FROM SURF.	LEGEND	SAMPLE TYPE	SAMPLE NO.	RECOVERY	BLOWS PER 6 IN.	USCS	LOG OF MATERIAL
0							Gas Odor Coming out of Hole During Drilling
1							
2							
3	SS			14	5		CLAY - Tan with White Mottling Trace Rust Staining, Hard, Medium Plasticity, Wet, MOIST
4					10		
5					14		
6							
7							CLAY As Above
8	SS			12	7		SAND Gray - Fine to Medium Grained - Medium Dense, MOIST Wet
9					12		
10					16		
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							

Screen

GROUNDWATER TECHNOLOGY

Division of Oil Recovery Systems, Inc.

Drilling Log

Well Number RW-1

Project Chevron — Owner Chevron U.S.A.

Location Livermore — Project Number 20-3229

Date Drilled 1/16/85 — Total Depth of Hole 32' — Diameter 24"

Surface Elevation ____ — Water Level, Initial ~13.5' — 24-hrs. ____

Screen: Dia. 12" — Length 30' — Slot Size .020

Casing: Dia. 12" — Length 5' — Type PVC

Drilling Company Malcolm — Drilling Method Auger/Bucket

Driller Rip/Bill — Log by C. Harper

Sketch Map

On Mobil property
Northwest corner

Notes

Depth (Feet)	Well Construction	Notes	Sample Number	Graphic Log	Description/Soil Classification (Color, Texture, Structures)
0		VAULT			
4"					Asphalt
6					Silty clay with gravel and sand, some roots
7		CEMENT			Hitting side of concrete? Gravels
8					Moved 8" to the side of concrete pipe
10		BENTONITE			Moved, hit water line at 2', moved Gravels (pea gravel fill for culvert pipe) Stopped at 10' due to caving of gravels
16					Yellow silty clay with fine sand intermixed, moist
18					Gray silty clay
21					Sand with clay
22					Tight light brown clay
23.5					Very tight clay
26					
32.5		BOTTOM CAP			Gravely clay and sand
					Bottom Cased to 32.5'
					15 ppm reading of gas vapors in gravel backfill Odors to the nose

02100144

GROUNDWATER TECHNOLOGY

Division of Oil Recovery Systems, Inc.

Well Number 18

Drilling Log

Project Chevron/Livermore Owner Chevron U.S.A.

Location 1stSt. & S. Front Rd. Project Number 20-3229

Date Drilled 3-29-85 Total Depth of Hole 29 ft Diameter 8 inch

Surface Elevation _____ Water Level, Initial 14.0ft. 24-hrs. 13.35 ft.

Screen: Dia. 2 inch Length 20 ft. Slot Size .020

Casing: Dia. 2 inch Length 9 ft. Type PVC

Drilling Company Sierra Pacific Drilling Method 8 " H.S. Auger

Driller Gary Taggert Log by R. Juncal

Sketch Map

Notes

Depth (Feet)	Well Construction	Notes	Sample Number	Graphic Log	Description/Soil Classification (Color, Texture, Structures)
0					4" asphalt
2					Road base to 3', sand to gravel
4					Dark brown silty clay, 20% sand
6					
8					Black clay, 10% silt to small pebbles
10					
12					Brown clay, 10% sand to pebbles
14		Depth to water 14 ft.			Brown clay to pebbles, some gravel (1 inch)
16					
18					Black silty clay to gravel (2 inch)
20					
22					Brown silty clay to gravel
24					Gray silty clay, 30% sand
26					
28					Gray silty clay, some sand
30					

Screen	29 to 9 ft.
Blank	9 to 0 ft.
Sand	29 to 7 ft.
Bentenite	7 to 6 ft.
Cement	6 to 0 ft.

02100144

GROUNDWATER TECHNOLOGY

Division of Oil Recovery Systems, Inc.

Well Number 19

Drilling Log

Project Chevron/Livermore Owner Chevron U.S.A.

Location 1stSt. & S. Front Rd. Project Number 20-3229

Date Drilled 3-29-85 Total Depth of Hole 25 ft. Diameter 8 inch

Surface Elevation _____ Water Level, Initial 14.5 ft 24-hrs. 14.84 ft.

Screen: Dia. 2 inch Length 17 ft. Slot Size .020

Casing: Dia. 2 inch Length 8 ft. Type PVC

Drilling Company Sierra Pacific Drilling Method 8" H.S. Auger

Driller Gary Taggart Log by R. Juncal

Sketch Map

Notes

Depth (Feet)	Well Construction	Notes	Sample Number	Graphic Log	Description/Soil Classification (Color, Texture, Structures)
0					4" asphalt
2					Road base to 3', sand and gravel
4					Dark brown silty clay, 5% small pebbles
6					
8					Dark brown silty clay, creamy
10					Dark brown clay, 5% sand, slight odor
12					
14		Depth t water 14.5 ft			Light brown silty clay
16					
18					Light brown clay
20					Light brown clay
22					
24					Same
26					

Screen	25 to 9 ft.
Blank	9 to 0 ft.
Sand	25 to 7 ft.
Bentonite	7 to 6 ft.
Cement	6 to 0 ft.

02100144

Drilling Log

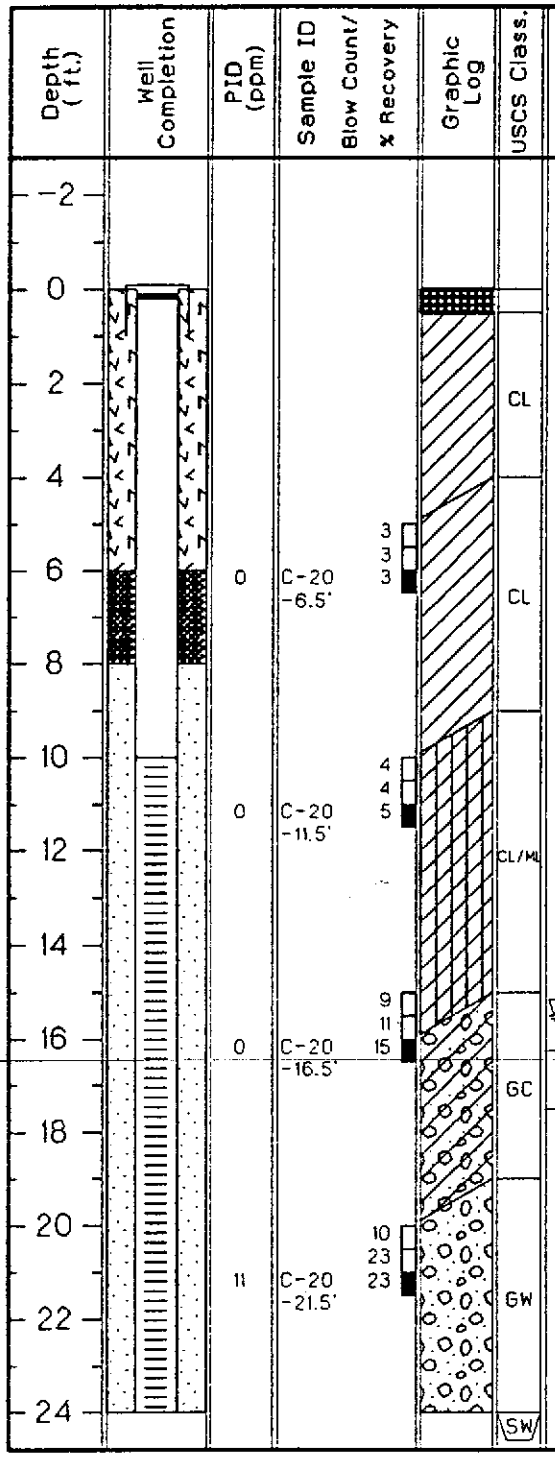
GROUNDWATER TECHNOLOGY

Monitoring Well C-20

Project Chevron - Livermore Owner Chevron USA Products Company
Location 4904 South Front Street, Livermore, CA Proj. No. 02070 0004
Surface Elev. ____ Total Hole Depth 26.5 ft. Diameter 8.25 in.
Top of Casing ____ Water Level Initial 15.5 ft. Static ____
Screen: Dia 2 in. Length 15 ft. Type/Size 0.020 in.
Casing: Dia 2 in. Length 10 ft. Type Sch 40 PVC
Fill Material #3 Monterey Sand/Neat Cement Rig/Core CME-55/Split Spoon
Drill Co. SES, Inc. Method Hollow Stem Auger/PID
Driller John C. Log By Terry James Date 10/02/95 Permit # ____
Checked By Ed Simonis License No. RG#4422 Ed S

See Site Map For Boring Location

COMMENTS:



Description

(Color, Texture, Structure)
Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50%

6" asphalt.

Silty CLAY (30,70): dark gray, damp, soft, plastic, no hydrocarbon odor.

Silty CLAY (20,80): dark gray, damp, soft, plastic, no hydrocarbon odor.

(grades silty CLAY (40,60): light olive, trace red and black mottling)

Encountered water, 10/02/95, 1115 hrs.

Sandy silty clayey GRAVEL (10,10,30,50): light brown, gravel up to 1.5", angular to subrounded, wet, no hydrocarbon odor.

(gravel clasts: graywacke, red chert, volcanics, quartz)

(grades saturated)

Clayey sandy GRAVEL (10,30,60): gravel up to 1", angular to round, no hydrocarbon odor.

GROUNDWATER TECHNOLOGY

Drilling Log

Monitoring Well C-20

Project Chevron - Livermore Owner Chevron USA Products Company
Location 4904 South Front Street, Livermore, CA Proj. No. 02070 0004

Depth (ft.)	Well Completion	PID (ppm)	Sample ID	Blow Count / % Recovery	Graphic Log	USCS Class.	Description (Color, Texture, Structure) Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50%
24							Medium to coarse SAND: brown-gray, wet, loose, litharenite, subangular, moderately sorted, no hydrocarbon odor.
26		8	C-20 -26.5'	15 30 29		SW	Clay in sample shoe, wet, no hydrocarbon odor.
28						CL	End of boring. Installed groundwater monitoring well.
30							
32							
34							
36							
38							
40							
42							
44							
46							
48							
50							
52							
54							
56							

Drilling Log

GROUNDWATER TECHNOLOGY

Monitoring Well C-21

Project Chevron - Livermore Owner Chevron USA Products Company
Location 4904 South Front Street, Livermore, CA Proj. No. 02070 0004
Surface Elev. ____ Total Hole Depth 26.5 ft. Diameter 6.25 in.
Top of Casing ____ Water Level Initial 15 ft. Static 11 ft.
Screen: Dia 2 in. Length 15 ft. Type/Size 0.020 in.
Casing: Dia 2 in. Length 10 ft. Type Sch 40 PVC
Fill Material #3 Monterey Sand/Neat Cement Rig/Core CME-55/Split Spoon
Drill Co. SES, Inc. Method Hollow Stem Auger/PID
Driller John C. Log By Terry James Date 10/02/95 Permit # ____
Checked By Ed Simonis License No. RG#4422 Exp

See Site Map For Boring Location

COMMENTS:

Depth (ft.)	Well Completion	PID (ppm)	Sample ID	Blow Count / % Recovery	Graphic Log	USCS Class.	Description (Color, Texture, Structure) Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50%
-2							
0						SC	6" asphalt over base course.
2							Silty CLAY (15,85): black, very plastic, soft, damp, no hydrocarbon odor.
4						CL	
6		0	C-21 -6.5'	3 4 5			
8							Clayey SILT (40,60): olive, damp, soft, no hydrocarbon odor.
10				4			
12		0	C-21 -11.5'	4 5		ML/CL	*Static water, 10/02/95* (some yellow mottling)
14							
16		40	C-21 -16.5'	5 19 20			*Encountered water, 10/02/95, 1335 hrs.* Sandy GRAVEL (30,70): gravel up to 2", subangular, saturated, loose, no hydrocarbon odor.
18						GW	
20				4 5			
22		0	C-21 -21.5'	7		CL	Sandy silty CLAY (20,20,60): light olive, damp, stiff, plastic, no hydrocarbon odor.
24							

GROUNDWATER TECHNOLOGY

Drilling Log

Monitoring Well C-21

Project Chevron - Livermore Owner Chevron USA Products Company
Location 4904 South Front Street, Livermore, CA Proj. No. 02070.0004

Depth (ft.)	Well Completion	PID (ppm)	Sample ID	Blow Count / % Recovery	Graphic Log	USCS Class.	Description (Color, Texture, Structure) Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50%
24							Sandy silty CLAY (20,30,50): yellow brown, damp, soft, slight plastic, no hydrocarbon odor.
26		0	C-21 -26.5'	6 7 7		CL	End of boring. Installed groundwater monitoring well.
28							
30							
32							
34							
36							
38							
40							
42							
44							
46							
48							
50							
52							
54							
56							

CAMBRIA

ATTACHMENT B

Gettler-Ryan First Quarter 2004 Groundwater Monitoring and Sampling Report

GETTLER-RYAN INC.

March 26, 2004
G-R Job #386448

Ms. Karen Streich
ChevronTexaco Company
P.O. Box 6004
San Ramon, CA 94583

RE: First Quarter Event of March 1, 2004
Groundwater Monitoring & Sampling Report
Chevron Service Station #9-1924
4904 Southfront Road
Livermore, California

Dear Ms. Streich:

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 laboratory analytical report are also attached.

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

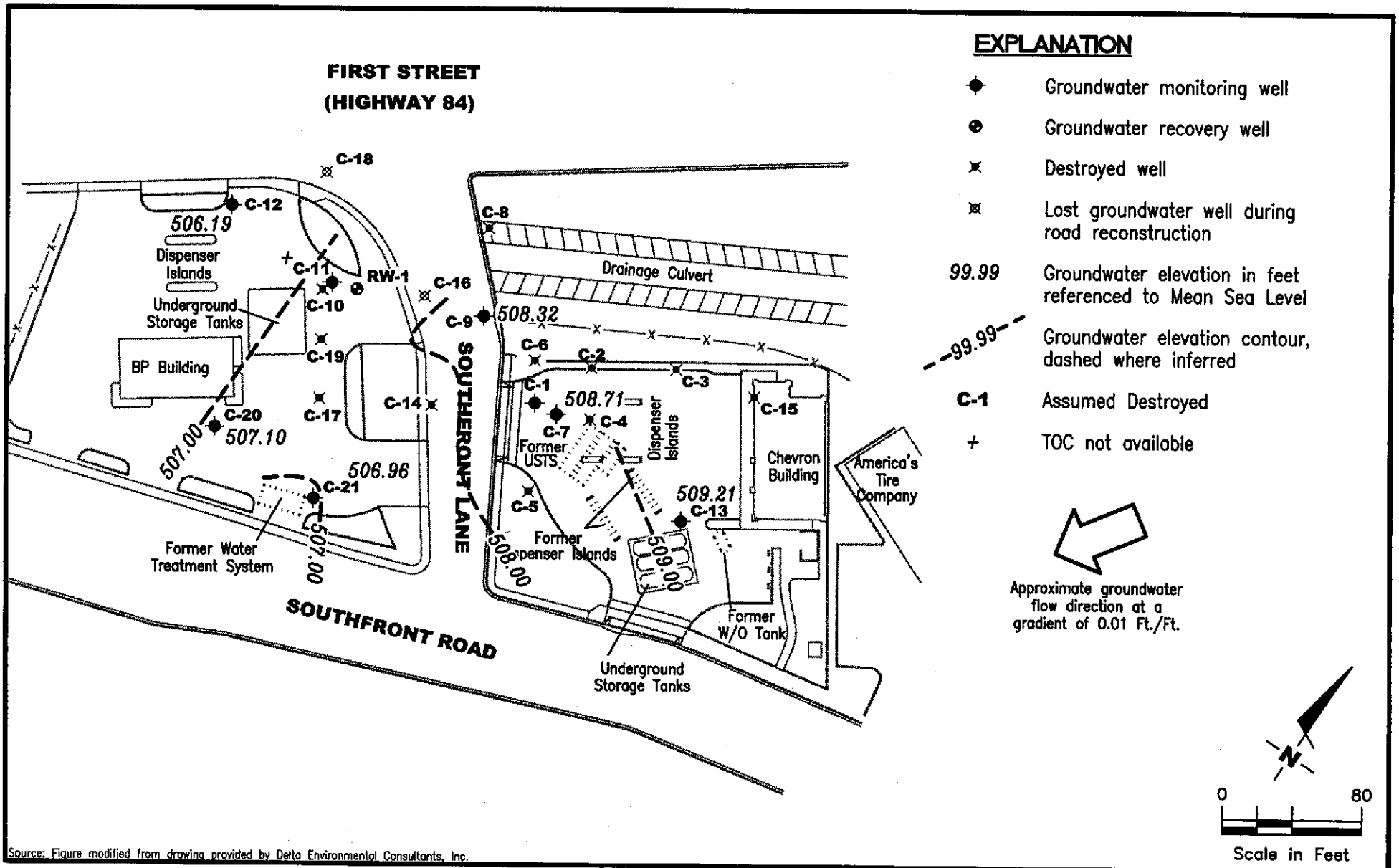
Sincerely,

Deanna L. Harding
Project Coordinator

Hagop Kevork
P.E. No. C55734

REGISTERED PROFESSIONAL ENGINEER
HAGOP KEVORK
No. C 55734
Exp. 12/31/04
CIVIL
STATE OF CALIFORNIA

Figure 1: Potentiometric Map
Table 1: Groundwater Monitoring Data and Analytical Results
Table 2: Groundwater Analytical Results - Oxygenate Compounds
Table 3: Groundwater Analytical Results
Attachments: Standard Operating Procedure - Groundwater Sampling
Field Data Sheets
Chain of Custody Document and Laboratory Analytical Reports



Source: Figure modified from drawing provided by Delta Environmental Consultants, Inc.

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

POTENTIOMETRIC MAP
Chevron Service Station #9-1924
4904 Southfront Road
Livermore, California

FIGURE
1

PROJECT NUMBER	REVIEWED BY	DATE	REVISED DATE
386448		March 1, 2004	

FILE NAME: P:\ENVIRO\CHEVRON\9-1924\Q04-9-1924.DWG | Layout Tab: Pot1

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-1924
4904 Southfront Road
Livermore, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	TOG (ppb)
C-7										
03/28/86	520.30	508.63	11.67	--	--	--	--	--	--	--
03/15/88	520.30	506.82	13.48	8,000	98	690	120	120	--	--
05/10/88	520.30	506.70	13.60	--	--	--	--	--	--	--
06/10/88	520.30	505.62	14.68	--	--	--	--	--	--	--
07/25/88	520.30	506.87	13.43	--	--	--	--	--	--	--
10/13/88	520.30	506.69	13.61	16,000	4,400	220	1,000	3,000	--	--
01/01/89	520.30	507.64	12.66	--	--	--	--	--	--	--
01/12/89	520.30	--	--	8,000	950	47	670	640	--	--
04/12/89	520.30	506.70	13.60	6,000	1,100	30	760	370	--	ND
06/26/89	520.30	506.42	13.88	6,000	1,300	50	600	340	--	ND
10/13/89	520.30	506.49	13.81	3,900	1,300	ND	160	150	--	--
01/03/90	520.30	506.59	13.71	5,600	1,200	13	180	200	--	--
05/08/90	520.30	506.45	13.85	3,500	1,100	15	110	140	--	--
09/29/90	520.30	506.50	13.80	2,400	580	ND	46	68	--	--
01/03/91	520.30	506.59	13.71	2,500	300	2.0	110	120	--	--
04/12/91	520.30	506.84	13.46	2,300	190	1.0	81	87	--	--
09/04/91	520.30	506.21	14.09	--	--	--	--	--	--	--
10/07/91	520.30	--	--	4,700	170	1.9	97	59	--	--
04/06/92	520.30	507.28	13.02	2,400	95	0.8	110	100	--	--
07/28/92	520.30	506.54	13.76	2,000	120	3.4	110	110	--	--
10/16/92	520.30	505.88	14.42	2,700	130	4.2	68	74	--	--
01/14/93	520.30	509.32	10.98	7,800	160	33	380	210	--	--
03/26/93	520.30	509.69	10.61	1,400	39	9.0	28	15	--	--
04/22/93	520.30	508.46	11.84	3,800	130	18	43	36	--	--
07/20-21/93[1]	520.30	504.94	15.36	1,900	35	18	61	87	--	--
10/20/93	520.30	506.89	13.41	5,500	72	26	250	160	--	--
01/20/94[1]	520.30	507.11	13.19	3,600	12	12	150	69	--	--
04/21/94	520.30	506.97	13.33	2,100	62	11	170	68	--	--
07/21-22/94	520.30	506.91	13.39	1,700	50	4.4	110	22	--	--
01/18/95	520.30	508.71	11.59	920	16	<0.5	30	12	--	--
04/17/95	520.30	508.56	11.74	730	4.3	1.6	12	1.8	--	--
07/18/95	520.30	508.32	11.98	1,200	63	<5.0	12	<5.0	--	--

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-1924
4904 Southfront Road
Livermore, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	TOG (ppb)
C-7 (cont)										
10/17/95	520.30	507.82	12.48	1,100	45	<5.0	12	<5.0	8,100	--
01/18/96	520.30	508.90	11.40	930	7.3	<5.0	<5.0	<5.0	1,900	--
04/17/96	520.30	509.34	10.96	980	5.5	<1.0	7.4	1.1	340	--
07/16/96	520.30	508.79	11.51	1,400	96	<5.0	11	9.9	3,000	--
10/16/96	520.30	508.30	12.00	4,100	40	<5.0	7.5	5.5	3,800	--
03/23/01	520.30	508.50	11.80	329	<0.500	<0.500	<0.500	<0.500	33.2/38[4]	--
09/28/01	520.30	508.17	12.13	1,100	3.8	<1.0	3.2	<5.0	130	--
12/28/01	520.30	509.18	11.12	800	3.1	2.6	2.6	16	42	--
03/29/02	520.30	508.65	11.65	360	0.73	<0.50	1.4	2.7	13/12[4]	--
06/13/02	520.30	508.01	12.29	1,100	2.1	<2.0	3.3	6.4	35	--
09/10/02	520.30	508.11	12.19	460	<0.50	<0.50	0.69	<1.5	52	--
12/09/02	520.30	508.04	12.26	1,200	3.1	1.4	3.5	5.5	70	--
03/04/03	520.30	508.54	11.76	260	<2.0	<0.50	0.97	<1.5	12/11[4]	--
06/06/03[5]	521.16	507.80	13.36	610	<0.5	<0.5	0.9	<0.5	20	--
09/04/03[5]	521.16	507.25	13.91	970	1	<0.5	1	<0.5	86	--
12/03/03[5]	521.16	507.40	13.76	1,100	0.5	<0.5	1	0.6	77	--
03/01/04[5]	**521.16**	**508.71**	**12.45**	**--**	**<0.5**	**<0.5**	**0.7**	**<0.5**	**15**	**--**
C-9										
03/28/86	519.52	508.28	11.24	--	--	--	--	--	--	--
03/15/88	519.52	506.60	12.92	29,000	540	560	580	3,900	--	--
05/10/88	519.52	506.40	13.12	--	--	--	--	--	--	--
06/10/88	519.52	505.36	14.16	--	--	--	--	--	--	--
07/25/88	519.52	506.52	13.00	--	--	--	--	--	--	--
10/13/88	519.52	506.39	13.13	2,200	57	8.0	20	150	--	--
01/01/89	519.52	507.33	12.19	--	--	--	--	--	--	--
01/12/89	519.52	--	--	2,000	39	12	51	46	--	--
04/12/89	519.52	506.41	13.11	6,000	16	20	55	240	--	ND
04/11/89	519.52	506.41	13.11	6,000	14	25	45	290	--	--
06/26/89	519.52	506.12	13.40	3,900	37	63	140	690	--	ND
10/13/89	519.52	506.06	13.46	1,300	7.0	ND	26	50	--	ND

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-1924
4904 Southfront Road
Livermore, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	TOG (ppb)
C-9 (cont)										
01/03/90	519.52	506.22	13.30	1,500	ND	0.7	202	37	--	--
05/07/90	519.52	506.04	13.48	7,100	21	33	89	500	--	--
09/29/90	519.52	506.13	13.39	1,000	21	3.9	31	110	--	--
01/03/91	519.72	506.44	13.28	3,200	ND	ND	32	140	--	--
04/12/91	519.72	506.72	13.00	--	--	--	--	--	--	--
09/04/91	519.72	506.11	13.61	--	--	--	--	--	--	--
04/06/92	519.72	507.18	12.54	2,800	ND	ND	33	130	--	--
07/28/92	519.72	506.27	13.45	1,000	6.5	2.4	17	37	--	--
10/16/92	519.72	505.74	13.98	190,000	ND	730	960	2,000	--	--
01/14/93	519.72	509.28	10.44	2,200	ND	ND	27	77	--	--
03/26/93	519.72	--	--	--	--	--	--	--	--	--
04/22/93	519.72	508.29	11.43	7,300	60	40	68	98	--	--
07/20-21/93	519.72	504.52	15.20	30,000	160	130	450	1,100	--	--
10/20/93	519.72	506.76	12.96	36,000	22	200	440	930	--	--
01/20/94	519.72	506.88	12.84	12,000	55	57	27	210	--	--
04/21/94	519.72	506.58	13.14	2,200	11	12	23	19	--	--
07/21-22/94	519.72	506.77	12.95	1,100	ND	4.0	14	10	--	--
01/18/95	519.72	508.57	11.15	2,100	9.2	13	19	13	--	--
04/17/95	519.72	508.41	11.31	3,800	4.8	3.6	5.9	7.2	--	--
07/18/95	519.72	508.06	11.66	1,700	<2.0	<2.0	9.6	8.3	--	--
10/17/95	519.72	507.99	11.73	1,200	<1.2	<1.2	2.2	4.3	450	--
01/18/96	519.72	509.04	10.68	1,400	3.1	<2.5	<2.5	<2.5	750	--
04/17/96	519.72	509.67	10.05	480	0.94	<0.5	1.7	1.1	380	--
07/16/96	519.72	508.80	10.92	290	2.7	<0.5	2.0	3.3	420	--
10/16/96	519.72	508.42	11.30	2,200	13	<10	<10	<10	1,300	--
04/10/97	519.72	508.52	11.20	680	<5.0	<5.0	<5.0	<5.0	630	--
10/20/97	519.72	508.28	11.44	650	11	<5.0	8.1	7.2	1,000	--
04/30/98	519.72	509.11	10.61	880	4.4	3.9	2.0	8.5	200	--
10/07/98	519.72	508.87	10.85	<50	0.68	<0.5	<0.5	<0.5	130	--
04/14/99	519.72	508.89	10.83	534	3.28	<0.5	3.0	<0.5	94.4	--
01/21/00	519.72	508.82	10.90	937	<0.5	0.718	1.64	1.3	144	--
03/23/01	519.72	508.44	11.28	434	<0.500	<0.500	<0.500	<0.500	19.7/22[4]	--

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-1924
4904 Southfront Road
Livermore, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	TOG (ppb)
C-9 (cont)										
09/28/01	519.72	508.14	11.58	480	0.92	<1.0	1.1	<5.0	21	--
12/28/01	519.72	509.01	10.71	340	1.0	0.51	<2.0	<5.0	17	--
03/29/02	519.72	508.55	11.17	350	0.67	<0.50	<2.0	<5.0	18/16[4]	--
06/13/02	519.72	507.93	11.79	300	0.50	<0.50	<1.0	<3.0	5.9	--
09/10/02	519.72	508.20	11.52	320	<0.50	0.57	<1.0	2.6	6.8	--
12/09/02	519.72	507.99	11.73	400	<0.50	0.78	1.5	5.5	14/15[4]	--
03/07/03	519.72	508.33	11.39	340	0.85	0.55	1.1	<5.0	5.6/5[4]	--
06/06/03[5]	519.64	507.42	12.22	220	<0.5	<0.5	<0.5	<1	4	--
09/04/03[5]	519.64	506.92	12.72	290	<0.5	<0.5	<0.5	<1.0	39	--
12/03/03[5]	519.64	507.03	12.61	310	<0.5	<0.7	<0.8	<1.6	49	--
03/01/04[5]	**519.64**	**508.32**	**11.32**	**--**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**10**	**--**
C-11										
03/28/86	520.04	506.22	13.82	--	--	--	--	--	--	--
03/15/88	520.04	505.55	14.49	--	--	--	--	--	--	--
05/10/88	520.04	505.73	14.31	--	--	--	--	--	--	--
06/10/88	520.04	504.57	15.47	--	--	--	--	--	--	--
07/25/88	520.04	506.44	13.60	--	--	--	--	--	--	--
10/14/88	520.04	505.51	14.53	2.0	240	33	4.7	67	--	--
01/01/89	520.04	505.94	14.10	--	--	--	--	--	--	--
01/12/89	520.04	--	--	ND	ND	0.8	ND	ND	--	--
04/12/89	520.04	505.68	14.36	ND	4.3	ND	ND	ND	--	ND
06/26/89	520.04	505.46	14.58	ND	2.0	ND	ND	ND	--	4.0
10/13/89	520.04	505.33	14.71	ND	ND	ND	ND	ND	--	ND
01/03/90	520.04	505.43	14.61	ND	ND	ND	ND	0.7	--	--
05/08/90	520.04	504.51	15.53	110	12	11	0.9	22	--	--
09/28/90	520.04	504.53	15.51	ND	2.0	1.4	ND	3.3	--	--
01/03/91	520.04	505.41	14.63	ND	2.0	ND	ND	2.0	--	--
04/12/91	520.04	505.74	14.30	--	--	--	--	--	--	--
09/04/91	520.04	505.20	14.84	--	--	--	--	--	--	--
04/06/92	520.04	506.48	13.56	ND	ND	ND	ND	ND	--	--

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-1924
4904 Southfront Road
Livermore, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	TOG (ppb)
C-11 (cont)										
07/28/92	520.04	505.65	14.39	ND	ND	ND	ND	ND	--	--
10/16/92	520.04	504.25	15.79	ND	ND	ND	ND	ND	--	--
01/14/93	520.04	507.90	12.14	94	ND	1.3	0.7	6.0	--	--
03/26/93	520.04	508.23	11.81	130	2.0	ND	0.6	1.0	--	--
04/22/93	520.04	507.10	12.94	ND	0.8	ND	ND	ND	--	--
07/20-21/93	520.04	503.56	16.48	1,200	3.0	1.0	ND	1.0	--	--
10/20/93	520.04	505.58	14.46	ND	2.0	ND	ND	ND	--	--
01/20/94	520.04	505.92	14.12	140	5.0	0.6	3.0	4.0	--	--
04/21/94	520.04	505.80	14.24	86	1.7	0.6	1.2	1.6	--	--
07/21-22/94	520.04	505.83	14.21	ND	ND	ND	ND	ND	--	--
01/18/95	520.04	506.81	13.23	50	3.7	<0.5	0.9	1.9	--	--
04/17/95	520.04	507.03	13.01	89	1.4	1.3	0.69	0.79	--	--
07/18/95	520.04	507.04	13.00	89	0.95	<0.5	1.1	1.0	--	--
10/17/95	520.04	506.72	13.32	73	<0.5	<0.5	<0.5	<0.5	390	--
01/18/96	520.04	507.14	12.90	240	12	29	4.3	33	<2.5	--
04/17/96	519.95	507.47	12.48	<50	<0.5	<0.5	<0.5	<0.5	26	--
07/16/96	519.95	507.28	12.67	<500	17	<5.0	<5.0	20	5,900	--
10/16/96	519.95	506.90	13.05	<125	<1.2	<1.2	<1.2	<1.2	910	--
04/10/97	519.95	506.77	13.18	<100	<1.0	<1.0	<1.0	<1.0	460	--
10/20/97	519.95	506.70	13.25	190	<0.5	7.2	2.6	16	8,900	--
04/30/98	519.95	507.19	12.76	<1,000	<10	<10	<10	<10	2,100	--
10/07/98	519.95	507.27	12.68	<50,000	930	<500	<500	<500	700,000	--
01/08/99	519.95	506.74	13.21	<500	16	<5.0	<5.0	<5.0	11,000/9,900[2]	--
04/14/99	519.95	506.84	13.11	99.6	2.13	<0.5	1.08	<0.5	853	--
01/21/00	--[3]	--	13.21	52.5	<0.5	<0.5	<0.5	0.756	261	--
03/23/01	--[3]	--	13.11	<50.0	<0.500	<0.500	<0.500	<0.500	92.3/110[4]	--
09/28/01	--[3]	--	13.35	73	<0.50	<0.50	<0.50	<1.5	140	--
12/28/01	--[3]	--	11.43	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
03/29/02	--[3]	--	13.15	<50	<0.50	<0.50	<0.50	<1.5	4.1/3[4]	--
06/13/02	--[3]	--	13.38	56	<0.50	<0.50	<0.50	<1.5	69	--
09/10/02	--[3]	INACCESSIBLE - CAR PARKED OVER WELL			--	--	--	--	--	--
12/09/02	--[3]	--	13.23	96	<0.50	<0.50	<0.50	<1.5	27	--

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-1924
4904 Southfront Road
Livermore, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	TOG (ppb)
C-11 (cont)										
03/04/03	--[3]	INACCESSIBLE - VEHICLE PARKED OVER WELL				--	--	--	--	--
06/06/03[5]	--[3]	--	13.27	<50	<0.5	<0.5	0.6	<0.5	9	--
09/04/03[5]	--[3]	--	13.53	<50	<0.5	<0.5	<0.5	<0.5	11	--
12/03/03[5]	--[3]	--	13.62	<50	<0.5	<0.5	<0.5	<0.5	7	--
03/01/04[5]	--[3]	--	**12.75**	--	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**9**	--
C-12										
03/28/86	519.82	506.21	13.61	--	--	--	--	--	--	--
03/15/88	519.82	505.27	14.55	ND	ND	ND	ND	ND	--	--
05/10/88	519.82	505.25	14.57	--	--	--	--	--	--	--
06/10/88	519.82	504.19	15.63	--	--	--	--	--	--	--
07/25/88	519.82	505.31	14.51	--	--	--	--	--	--	--
10/13/88	519.82	505.22	14.60	ND	ND	ND	ND	ND	--	--
01/12/89	519.82	505.20	14.62	ND	ND	ND	ND	ND	--	--
04/11/89	519.82	505.21	14.61	ND	ND	ND	ND	ND	--	ND
06/26/89	519.82	505.07	14.75	ND	ND	ND	ND	ND	--	ND
10/13/89	519.82	505.05	14.77	ND	ND	ND	ND	ND	--	ND
01/03/90	519.82	504.97	14.85	ND	ND	ND	ND	0.6	--	--
05/07/90	519.82	505.07	14.75	ND	ND	ND	ND	ND	--	--
09/27/90	519.82	505.21	14.61	ND	ND	ND	ND	ND	--	--
01/03/91	519.82	505.12	14.70	ND	ND	ND	ND	ND	--	--
04/12/91	519.82	505.30	14.52	--	--	--	--	--	--	--
09/04/91	519.82	504.99	14.83	--	--	--	--	--	--	--
04/06/92	519.82	506.01	13.81	ND	ND	ND	ND	ND	--	--
07/28/92	519.82	505.50	14.32	ND	ND	ND	ND	ND	--	--
10/16/92	519.82	504.70	15.12	ND	ND	ND	ND	ND	--	--
01/14/93	519.82	506.59	13.23	65	ND	ND	ND	1.7	--	--
03/26/93	519.82	507.62	12.20	ND	0.9	ND	ND	ND	--	--
04/22/93	519.82	506.61	13.21	ND	ND	ND	ND	ND	--	--
07/20-21/93	519.82	503.11	16.71	ND	ND	ND	ND	ND	--	--
10/20/93	519.82	505.63	14.19	ND	ND	ND	ND	ND	--	--

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-1924
4904 Southfront Road
Livermore, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	TOG (ppb)
C-12 (cont)										
01/20/94	519.82	505.77	14.05	ND	ND	ND	ND	ND	--	--
04/21/94	519.82	505.76	14.06	ND	ND	ND	ND	ND	--	--
07/21-22/94	519.82	505.70	14.12	ND	ND	ND	ND	ND	--	--
01/08/99	519.82	506.51	13.31	<50	<0.50	<0.50	<0.50	<0.50	<2.5/<2.0[2]	--
03/23/01	519.82	506.86	12.96	--	--	--	--	--	--	--
09/28/01	519.82	506.10	13.72	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
12/28/01	519.82	506.68	13.14	240	1.3	18	3.4	55	4.5	--
03/29/02	519.82	506.26	13.56	2,100	<0.50	<0.50	<0.50	600	<2.5/<2[4]	--
06/13/02	519.82	506.08	13.74	940	<0.50	<0.50	<0.50	19	<2.5	--
09/10/02	519.82	506.32	13.50	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
12/09/02	519.82	506.08	13.74	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
03/04/03	519.82	506.20	13.62	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<0.5[4]	--
06/06/03[5]	519.87	506.09	13.78	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
09/04/03[5]	519.87	505.42	14.45	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
12/03/03[5]	519.87	505.76	14.11	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
03/01/04[5]	**519.87**	**506.19**	**13.68**	**--**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**--**
C-13										
03/28/86	522.24	509.29	12.95	--	--	--	--	--	--	--
03/15/88	522.24	507.42	14.82	250	2.0	ND	9.0	3.0	--	--
05/10/88	522.24	507.21	15.03	--	--	--	--	--	--	--
06/10/88	522.24	506.14	16.10	--	--	--	--	--	--	--
07/25/88	522.24	507.51	14.73	--	--	--	--	--	--	--
10/13/88	522.24	507.33	14.91	ND	1.9	ND	ND	ND	--	--
01/01/89	522.24	508.14	14.10	--	--	--	--	--	--	--
01/12/89	522.24	--	--	ND	ND	0.6	4.0	ND	--	--
04/10/89	522.24	507.25	14.99	ND	ND	ND	8.0	ND	--	ND
06/26/89	522.24	507.08	15.16	ND	0.3	ND	ND	ND	--	ND
10/13/89	522.24	507.01	15.23	ND	ND	ND	ND	ND	--	ND
01/03/90	522.24	507.09	15.15	ND	ND	ND	0.5	0.6	--	--
05/08/90	522.24	507.22	15.02	ND	ND	ND	ND	ND	--	--

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-1924
4904 Southfront Road
Livermore, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	TOG (ppb)
C-13 (cont)										
09/27/90	522.24	507.13	15.11	ND	ND	0.6	ND	ND	--	--
01/03/91	522.24	507.16	15.08	ND	ND	ND	ND	0.6	--	--
04/12/91	522.24	507.47	14.77	--	--	--	--	--	--	--
09/04/91	522.24	506.81	15.43	--	--	--	--	--	--	--
04/06/92	522.24	507.81	14.43	66	ND	ND	ND	ND	--	--
07/28/92	522.24	506.87	15.37	60	8.2	ND	ND	1.1	--	--
10/16/92	522.24	506.37	15.87	ND	ND	ND	ND	ND	--	--
01/14/93	522.24	509.41	12.83	100	ND	ND	ND	1.3	--	--
03/26/93	522.24	509.65	12.59	ND	ND	ND	ND	ND	--	--
04/22/93	522.24	509.08	13.16	ND	ND	ND	ND	ND	--	--
07/20-21/93	522.24	505.72	16.52	99	4.0	13	2.0	7.0	--	--
10/20/93	522.24	507.11	15.13	ND	ND	ND	ND	ND	--	--
01/20/94	522.24	507.59	14.65	ND	ND	ND	ND	ND	--	--
04/21/94	522.24	507.36	14.88	ND	ND	ND	ND	ND	--	--
07/21-22/94	522.24	507.29	14.95	ND	ND	ND	ND	ND	--	--
03/23/01	522.24	508.96	13.28	--	--	--	--	--	--	--
09/28/01	522.24	508.59	13.65	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
12/28/01	522.24	509.26	12.98	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
03/29/02	522.24	509.08	13.16	<50	<0.50	<0.50	<0.50	<1.5	8.0/7[4]	--
06/13/02	522.24	508.37	13.87	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
09/10/02	522.24	508.98	13.26	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
12/09/02	522.24	508.40	13.84	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
03/04/03	522.24	508.93	13.31	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<0.5[4]	--
06/06/03[5]	522.30	508.24	14.06	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
09/04/03[5]	522.30	507.65	14.65	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
12/03/03[5]	522.30	507.81	14.49	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
03/01/04[5]	**522.30**	**509.21**	**13.09**	--	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	--
C-20										
10/12/95	520.67	507.17	13.50	--	--	--	--	--	--	--
05/16/96	520.67	507.89	12.78	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-1924
4904 Southfront Road
Livermore, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	TOG (ppb)
C-20 (cont)										
07/16/96	520.67	507.74	12.93	<50	2.5	1.5	0.82	2.4	4.1	--
10/16/96	520.67	507.43	13.24	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
04/10/97	520.67	507.35	13.32	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
10/20/97	520.67	507.21	13.46	SAMPLED ANNUALLY		--	--	--	--	--
04/30/98	520.67	507.82	12.85	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
10/07/98	520.67	507.99	12.68	--	--	--	--	--	--	--
04/14/99	520.67	507.37	13.30	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
01/21/00	520.67	507.21	13.46	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
03/23/01	520.67	507.11	13.56	--	--	--	--	--	--	--
09/28/01	520.67	506.83	13.84	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
12/28/01	520.67	507.50	13.17	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
03/29/02	520.67	507.06	13.61	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<2[4]	--
06/13/02	520.67	506.85	13.82	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
09/10/02	520.67	507.33	13.34	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
12/09/02	520.67	506.78	13.89	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
03/04/03	520.67	506.99	13.68	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<0.5[4]	--
06/06/03[5]	520.63	506.94	13.69	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
09/04/03[5]	520.63	506.56	14.07	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
12/03/03[5]	520.63	506.53	14.10	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
03/01/04[5]	**520.63**	**507.10**	**13.53**	**--**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**--**
C-21										
10/12/95	519.64	507.49	12.15	--	--	--	--	--	--	--
05/16/96	519.64	508.36	11.28	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
07/16/96	519.64	508.24	11.40	<50	0.93	1.1	0.81	2.3	2.5	--
10/16/96	519.64	508.17	11.47	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
03/23/01	519.64	UNABLE TO LOCATE - PAVED OVER			--	--	--	--	--	--
09/28/01	519.64	INACCESSIBLE - PAVED OVER			--	--	--	--	--	--
12/28/01	519.64	UNABLE TO LOCATE		--	--	--	--	--	--	--
03/29/02	519.64	506.89	12.75	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<2[4]	--
06/13/02	519.64	506.64	13.00	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-1924
4904 Southfront Road
Livermore, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	TOG (ppb)
C-21 (cont)										
09/10/02	519.64	506.94	12.70	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
12/09/02	519.64	506.56	13.08	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
03/04/03	519.64	506.83	12.81	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<0.5[4]	--
06/06/03[5]	519.64	506.76	12.88	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
09/04/03[5]	519.64	506.43	13.21	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
12/03/03[5]	519.64	506.34	13.30	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
03/01/04[5]	**519.64**	**506.96**	**12.68**	**--**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**--**
C-1										
03/28/86	520.39	508.64	11.75	--	--	--	--	--	--	--
03/15/88	520.39	506.89	13.50	27,000	770	87	610	2,100	--	--
05/10/88	520.39	506.74	13.65	--	--	--	--	--	--	--
06/10/88	520.39	505.67	14.72	--	--	--	--	--	--	--
07/25/88	520.39	506.89	13.50	--	--	--	--	--	--	--
10/13/88	520.39	507.50	12.89	3,200	220	11	62	130	--	--
01/01/89	520.39	507.50	12.89	--	--	--	--	--	--	--
01/12/89	520.39	--	--	4,000	820	43	490	260	--	--
04/10/89	520.39	506.74	13.65	4,000	100	ND	70	50	--	ND
04/10/89	520.39	506.74	13.65	4,000	100	ND	60	50	--	--
06/26/89	520.39	506.45	13.94	600	97	20	60	50	--	ND
06/26/89	520.39	506.45	13.94	570	86	15	44	35	--	--
10/13/89	520.39	506.47	13.92	1,600	64	ND	51	48	--	ND
01/03/90	520.39	506.59	13.80	1,100	36	0.68	30	30	--	--
05/08/90	520.39	506.48	13.91	1,300	37	9.2	40	32	--	--
09/29/90	520.39	506.46	13.93	350	19	1.2	32	31	--	--
01/03/91	520.39	506.54	13.85	400	12	ND	17	14	--	--
04/12/91	520.39	506.88	13.51	--	--	--	--	--	--	--
09/04/91	520.39	506.29	14.10	--	--	--	--	--	--	--
04/06/92	520.39	507.33	13.06	1,000	12	0.8	31	31	--	--
07/28/92	520.39	506.46	13.93	4,200	47	110	96	260	--	--
10/16/92	520.39	505.94	14.45	1,800	11	ND	32	55	--	--

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Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-1924
4904 Southfront Road
Livermore, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	TOG (ppb)
C-1 (cont)										
01/14/93	520.39	509.16	11.23	2,000	24	ND	98	62	--	--
03/26/93	520.39	509.45	10.94	4,400	21	12	120	100	--	--
04/22/93[1]	520.39	504.14	16.25	18,000	26	44	580	330	--	--
07/20-21/93	520.39	505.10	15.29	7,100	73	11	470	470	--	--
10/20/93	520.39	506.89	13.50	880	19	26	260	190	--	--
01/20/94	520.39	507.13	13.26	2,900	13	10	130	60	--	--
04/21/94	520.39	506.93	13.46	1,400	8.8	7.8	82	34	--	--
07/21-22/94	520.39	506.93	13.46	800	4.7	2.7	34	13	--	--
01/18/95	520.39	508.67	11.72	2,000	18	10	130	10	--	--
04/17/95	520.39	508.58	11.81	2,500	13	1.9	33	4.3	--	--
07/18/95	520.39	508.27	12.12	1,100	<10	<10	27	<10	--	--
10/17/95	520.39	507.81	12.58	2,000	13	<5.0	24	<5.0	6,400	--
01/18/96	520.39	509.07	11.32	<2,000	35	30	<20	23	6,600	--
04/17/96	520.39	509.52	10.87	<1,000	31	<10	<10	<10	<50	--
07/16/96	520.39	509.01	11.38	830	15	<5.0	13	<5.0	9,000	--
10/16/96	520.39	508.58	11.81	<5,000	<50	<50	<50	<50	6,300	--
01/08/99	520.39	508.33	12.06	1,600	22	<10	10	<10	1,500/1,400[2]	--
NOT MONITORED/SAMPLED - UNABLE TO LOCATE ASSUMED DESTROYED (Per Lead Consultant 11/30/01)										
C-2										
03/28/86	520.76	508.78	11.98	--	--	--	--	--	--	--
03/15/88	520.76	506.99	13.77	22,000	3,900	1,900	1,200	1,200	--	--
05/10/88	520.76	506.73	14.03	--	--	--	--	--	--	--
06/10/88	520.76	505.64	15.12	--	--	--	--	--	--	--
07/25/88	520.76	506.90	13.86	--	--	--	--	--	--	--
10/13/88	520.76	506.65	14.11	ND	ND	ND	ND	ND	--	--
01/01/89	520.76	507.93	12.83	--	--	--	--	--	--	--
01/12/89	520.76	--	--	1,000	25	3.0	83	59	--	--
04/10/89	520.76	506.72	14.04	600	2.5	ND	15	12	--	ND
04/10/89	520.76	506.72	14.04	ND	ND	ND	11	11	--	--
06/26/89	520.76	506.42	14.34	640	5.3	8.0	18	14	--	ND

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-1924
4904 Southfront Road
Livermore, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	TOG (ppb)
C-2 (cont)										
06/26/89	520.76	506.42	14.34	750	3.7	0.6	13	8.2	--	--
10/13/89	520.76	506.84	13.92	630	ND	ND	17	10	--	--
01/03/90	520.76	506.65	14.11	880	3	ND	19	17	--	--
05/08/90	520.76	506.48	14.28	340	1.3	2.7	8.4	11	--	--
09/29/90	520.76	506.51	14.25	74	ND	ND	4.6	1.8	--	--
01/03/91	520.76	506.61	14.15	2,000	270	ND	79	93	--	--
04/12/91	520.76	506.90	13.86	--	--	--	--	--	--	--
09/04/91	520.76	506.26	14.50	--	--	--	--	--	--	--
04/06/92	520.76	507.29	13.47	1,200	ND	ND	54	6.1	--	--
07/28/92	520.76	506.41	14.35	1,000	5.2	2.9	26	16	--	--
10/16/92	520.76	505.92	14.84	2,000	ND	2.2	20	10	--	--
01/14/93	520.76	509.54	11.22	1,800	49	50	31	29	--	--
03/26/93	520.76	509.99	10.77	820	15	12	14	6.0	--	--
04/22/93	520.76	507.83	12.93	2,000	12	12	28	29	--	--
07/20-21/93	520.76	504.74	16.02	1,100	28	8.0	4.0	4.0	--	--
10/20/93	520.76	506.92	13.84	1,600	140	18	22	27	--	--
01/20/94	520.76	507.16	13.60	760	36	3.0	7.0	3.0	--	--
04/21/94	520.76	506.66	14.10	430	23	2.8	6.8	6.8	--	--
07/21-22/94	520.76	506.93	13.83	1,200	10	2.8	5.2	53	--	--
01/18/95	520.76	508.94	11.82	640	1.0	<0.5	5.7	7.7	--	--
04/17/95	520.76	508.72	12.04	<50	<0.5	<0.5	<0.5	<0.5	--	--
07/18/95	520.76	508.34	12.42	81	<0.5	<0.5	<0.5	<0.5	--	--
10/17/95	520.76	507.97	12.79	390	<0.5	<0.5	1.2	1.2	14	--
01/18/96	520.76	509.18	11.58	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
04/17/96	520.76	509.49	11.27	62	<0.5	<0.5	<0.5	<0.5	<2.5	--
07/16/96	520.76	508.81	11.95	370	2.1	1.5	3.1	3.9	47	--
10/16/96	520.76	508.36	12.40	460	2.4	1.3	1.8	1.9	200	--
04/10/97	520.76	508.49	12.27	480	0.63	<0.5	<0.5	<0.5	15	--
10/20/97	520.76	508.45	12.31	SAMPLED ANNUALLY		--	--	--	--	--
04/30/98	520.76	509.50	11.26	140	1.0	0.61	1.1	1.9	6.4	--
10/07/98	520.76	509.22	11.54	--	--	--	--	--	--	--
04/14/99	520.76	509.35	11.41	201	1.96	<0.5	0.57	<0.5	11.2	--

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-1924
4904 Southfront Road
Livermore, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	TOG (ppb)
C-2 (cont)										
01/21/00	520.76	509.31	11.45	320	0.949	<0.5	0.967	0.62	8.48	--
DESTROYED										
C-3										
03/28/86	521.31	509.07	12.24	--	--	--	--	--	--	--
03/15/88	521.31	507.10	14.21	2,100	86	8.0	30	36	--	--
05/10/88	521.31	506.88	14.43	--	--	--	--	--	--	--
06/10/88	521.31	505.78	15.53	--	--	--	--	--	--	--
07/25/88	521.31	507.09	14.22	--	--	--	--	--	--	--
10/13/88	521.31	507.21	14.10	ND	ND	ND	ND	ND	--	--
01/01/89	521.31	508.61	12.70	--	--	--	--	--	--	--
04/10/89	521.31	506.95	14.36	200	2.1	ND	4.4	2.6	--	ND
06/26/89	521.31	506.57	14.74	260	1.1	0.7	4.9	1.6	--	ND
10/13/89	521.31	506.61	14.70	ND	ND	ND	ND	ND	--	--
01/03/90	521.31	506.89	14.42	ND	ND	ND	0.9	1.4	--	--
05/08/90	521.31	506.66	14.65	ND	ND	ND	ND	ND	--	--
09/27/90	521.31	506.64	14.67	71	ND	1.0	ND	ND	--	--
01/03/91	521.31	506.73	14.58	57	ND	ND	ND	ND	--	--
04/12/91	521.31	507.08	14.23	98	ND	ND	1.6	ND	--	--
09/04/91	521.31	506.43	14.88	64	ND	ND	ND	ND	--	--
04/06/92	521.31	507.48	13.83	88	ND	ND	0.8	ND	--	--
07/28/92	521.31	506.51	14.80	80	ND	ND	0.5	1.1	--	--
10/16/92	521.31	506.08	15.23	1,400	ND	ND	6.6	11	--	--
01/14/93	521.31	509.86	11.45	100	ND	ND	ND	1.3	--	--
03/26/93	521.31	510.04	11.27	74	0.7	1.0	ND	ND	--	--
04/22/93	521.31	508.70	12.61	ND	ND	ND	ND	ND	--	--
07/20-21/93	521.31	505.14	16.17	ND	ND	ND	ND	ND	--	--
10/20/93	521.31	507.08	14.23	ND	ND	1.0	ND	0.8	--	--
01/20/94	521.31	507.30	14.01	ND	ND	ND	ND	ND	--	--
04/21/94	521.31	506.98	14.33	ND	ND	ND	ND	ND	--	--
07/21-22/94	521.31	507.00	14.31	ND	ND	ND	ND	ND	--	--
DESTROYED										

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Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-1924
4904 Southfront Road
Livermore, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	TOG (ppb)
C-5										
03/28/86	520.82	508.82	12.00	--	--	--	--	--	--	--
03/15/88	520.82	507.07	13.75	1,600	82	7.0	77	95	--	--
05/10/88	520.82	506.90	13.92	--	--	--	--	--	--	--
07/10/88	520.82	507.10	13.72	--	--	--	--	--	--	--
07/25/88	520.82	507.10	13.72	--	--	--	--	--	--	--
10/13/88	520.82	506.98	13.84	2,500	ND	ND	ND	ND	--	--
01/01/89	520.82	507.41	13.41	--	--	--	--	--	--	--
01/12/89	520.82	--	--	ND	42	3.0	44	52	--	--
04/10/89	520.82	--	13.88	180	2.6	ND	6.2	5.5	--	ND
06/26/89	520.82	506.68	14.14	420	7.6	0.8	40	56	--	ND
10/13/89	520.82	506.67	14.15	620	ND	ND	10	ND	--	ND
01/03/90	520.82	506.72	14.10	ND	0.7	ND	8.0	6.0	--	--
05/08/90	520.82	506.82	14.00	140	0.6	0.8	11	7.2	--	--
09/27/90	520.82	506.82	14.00	360	ND	3.2	5.2	6.4	--	--
01/03/91	520.82	506.82	14.00	90	ND	ND	ND	3.0	--	--
04/12/91	520.82	507.11	13.71	270	12	ND	19	7.0	--	--
09/04/91	520.82	506.52	14.30	ND	ND	ND	ND	ND	--	--
04/06/92	520.82	507.53	13.29	670	12	ND	40	ND	--	--
07/28/92	520.82	506.69	14.13	130	15	ND	1.8	0.5	--	--
10/16/92	520.82	506.14	14.68	ND	ND	ND	ND	1.2	--	--
01/14/93	520.82	508.95	11.87	2,300	13	ND	110	10	--	--
03/26/93	520.82	--	--	--	--	--	--	--	--	--
04/22/93	520.82	508.70	12.12	2,300	220	18	120	65	--	--
07/20-21/93	520.82	504.78	16.04	970	18	5.0	8.0	14	--	--
10/20/93	520.82	506.72	14.10	2,200	7.0	5.0	3.0	15	--	--
01/20/94	520.82	507.22	13.60	440	2.0	1.0	11	0.6	--	--
04/21/94	520.82	507.01	13.81	490	2.7	2.6	21	1.5	--	--
07/21-22/94	520.82	507.00	13.82	370	0.9	ND	6.5	1.0	--	--
01/18/95	520.82	508.55	12.27	940	37	22	14	7.3	--	--
04/17/95	520.82	508.65	12.17	14,000	1,200	340	160	80	--	--
07/18/95	520.82	508.51	12.31	<2,000	180	<20	<20	<20	--	--
10/17/95	520.82	508.36	12.46	92	4.9	<0.5	<0.5	<0.5	240	--

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-1924
4904 Southfront Road
Livermore, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	TOG (ppb)
C-5 (cont)										
01/18/96	520.82	509.04	11.78	1,300	180	<5.0	10	7.9	4,300	--
04/17/96	520.82	509.71	11.11	2,200	140	<10	<10	<10	5,400	--
07/16/96	520.82	509.40	11.42	380	4.5	<0.5	3.4	3.1	1,400	--
10/16/96	520.82	508.82	12.00	320	3.4	<1.0	<1.0	1.5	660	--
04/10/97	520.82	509.07	11.75	980	12	<2.5	3.0	<2.5	1,700	--
10/20/97	520.82	508.76	12.06	SAMPLED ANNUALLY		--	--	--	--	--
04/30/98	520.82	510.02	10.80	1,500	38	<5.0	17	5.4	1,700	--
10/07/98	520.82	509.78	11.04	--	--	--	--	--	--	--
04/14/99	520.82	509.53	11.29	227	10.9	0.511	1.17	1.06	468	--
01/21/00	520.82	509.42	11.40	909	11.5	<2.0	4.48	<2.0	493	--
03/23/01	520.82	INACCESSIBLE - DUE TO OBSTRUCTION IN WELL				--	--	--	--	--
09/28/01	520.82	INACCESSIBLE - DUE TO OBSTRUCTION IN WELL				--	--	--	--	--
DESTROYED										
C-6										
03/26/86	519.62	508.50	11.12	--	--	--	--	--	--	--
03/15/88	519.62	506.69	12.93	46,000	870	4,600	1,500	8,200	--	--
05/10/88	519.62	506.59	13.03	86,000	1,400	10,000	3,000	19,000	--	--
06/10/88	519.62	505.51	14.11	--	--	--	--	--	--	--
07/25/88	519.62	506.67	12.95	--	--	--	--	--	--	--
10/13/88	519.62	506.48	13.14	5,300	300	600	260	1,600	--	--
01/01/89	519.62	507.48	12.14	--	--	--	--	--	--	--
01/12/89	519.62	--	--	5,000	260	110	270	720	--	--
04/12/89	519.62	506.64	12.98	5,000	90	190	190	680	--	4.0
06/26/89	519.62	506.23	13.39	3,600	77	250	140	610	--	ND
10/13/89	519.62	506.22	13.40	3,500	32	81	100	530	--	ND
01/03/90	519.62	506.44	13.18	3,200	20	97	65	410	--	--
05/08/90	519.62	506.23	13.39	1,800	17	140	ND	400	--	--
09/29/90	519.62	506.30	13.32	8,000	58	210	260	2,100	--	--
01/03/91	519.62	506.43	13.19	2,300	4.0	79	59	380	--	--
04/12/91	519.62	506.71	12.91	--	--	--	--	--	--	--
09/04/91	519.62	506.06	13.56	--	--	--	--	--	--	--

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-1924
4904 Southfront Road
Livermore, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	TOG (ppb)
C-6 (cont)										
04/06/92	519.62	507.14	12.48	44,000	ND	120	740	3,400	--	--
07/28/92	519.62	506.15	13.47	120,000	220	1,100	3,000	13,000	--	--
10/16/92	519.62	505.67	13.95	570,000	ND	830	3,300	9,600	--	--
01/14/93	519.62	509.23	10.39	19,000	ND	25	460	980	--	--
03/26/93	519.62	509.79	9.83	11,000	30	90	290	1,100	--	--
04/22/93	519.62	508.30	11.32	20,000	29	170	640	2,400	--	--
07/20-21/93	519.62	504.70	14.92	32,000	130	490	1,000	4,900	--	--
10/20/93	519.62	506.71	12.91	77,000	290	790	2,500	7,600	--	--
01/20/94	519.62	506.94	12.68	22,000	10	86	510	29	--	--
04/21/94	519.62	506.74	12.88	6,500	17	42	160	210	--	--
07/21-22/94	519.62	506.78	12.84	4,500	ND	7.1	130	130	--	--
01/18/95	519.62	508.61	11.01	3,600	3.3	6.7	62	78	--	--
04/17/95	519.62	508.35	11.27	1,500	1.6	2.2	14	12	--	--
07/18/95	519.62	508.16	11.46	4,000	<10	<10	40	22	--	--
10/17/95	519.62	507.64	11.98	6,000	<10	<10	100	58	5,200	--
01/18/96	519.62	508.78	10.84	1,200	<5.0	<5.0	10	<5.0	2,600	--
04/17/96	519.62	509.15	10.47	510	<2.5	<2.5	10	3.0	490	--
07/16/96	519.62	508.65	10.97	1,300	10	<10	51	<10	2,700	--
10/16/96	519.62	508.12	11.50	2,600	31	<10	12	11	5,100	--
04/10/97	519.62	508.35	11.27	1,300	5.1	<2.5	17	<2.5	1,300	--
10/20/97	519.62	507.85	11.77	2,200	<2.5	4.6	14	13	1,300	--
04/30/98	519.62	509.01	10.61	1,300	6.5	8.6	5.6	7.0	180	--
10/07/98	519.62	508.71	10.91	1,200	11	<10	15	<10	710	--
04/14/99	519.62	508.77	10.85	2,180	13.6	<2.0	5.52	4.12	116	--
01/21/00	519.62	508.73	10.89	1,230	10.3	<5.0	5.89	6.09	217	--
DESTROYED										
C-8										
03/28/86	519.74	507.96	11.78	--	--	--	--	--	--	--
03/15/88	519.74	506.11	13.63	7,500	360	25	10	ND	--	--
05/10/88	519.74	506.00	13.74	--	--	--	--	--	--	--
06/10/88	519.74	504.85	14.89	--	--	--	--	--	--	--

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-1924
4904 Southfront Road
Livermore, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	TOG (ppb)
C-8 (cont)										
07/25/88	519.74	506.09	13.65	--	--	--	--	--	--	--
10/13/88	519.74	505.96	13.78	ND	6.0	5.3	ND	ND	--	--
01/01/89	519.74	507.06	12.68	--	--	--	--	--	--	--
01/12/89	519.74	--	--	ND	37	4.0	1.0	5.0	--	--
04/12/89	519.74	505.97	13.77	3,000	13	ND	ND	ND	--	12
06/26/89	519.74	505.71	14.03	780	14	6.0	ND	6.0	--	ND
10/13/89	519.74	505.68	14.06	ND	ND	ND	ND	ND	--	ND
01/03/90	519.74	506.00	13.74	910	ND	ND	1.0	1.0	--	--
05/07/90	519.74	505.64	14.10	620	3.9	6.0	0.5	3.4	--	--
09/29/90	519.74	505.77	13.97	77	ND	1.4	ND	ND	--	--
01/03/91	519.74	505.93	13.81	67	2.0	2.0	ND	2.0	--	--
04/12/91	519.74	506.14	13.60	180	4.0	ND	ND	ND	--	--
09/04/91	519.74	505.60	14.14	140	1.8	4.7	0.8	4.8	--	--
04/06/92	519.74	506.62	13.12	150	ND	ND	ND	ND	--	--
07/28/92	519.74	505.64	14.10	90	ND	ND	ND	0.8	--	--
10/16/92	519.74	505.17	14.57	51	ND	ND	ND	ND	--	--
01/14/93	519.74	508.79	10.95	120	ND	1.6	1.0	3.5	--	--
03/26/93	519.74	--	--	--	--	--	--	--	--	--
04/22/93	519.74	507.67	12.07	68	ND	0.6	0.6	0.8	--	--
07/20-21/93	519.74	504.04	15.70	ND	ND	ND	ND	ND	--	--
10/20/93	519.74	506.23	13.51	ND	ND	ND	ND	ND	--	--
01/20/94	519.74	506.23	13.51	ND	ND	ND	ND	ND	--	--
04/21/94	519.74	506.06	13.68	ND	ND	ND	ND	ND	--	--
07/21-22/94	519.74	506.24	13.50	51	ND	ND	ND	ND	--	--
01/18/95	519.74	DRY	--	--	--	--	--	--	--	--
04/17/95	519.74	DRY	--	--	--	--	--	--	--	--
07/18/95	519.74	DRY	--	--	--	--	--	--	--	--
10/17/95	519.74	507.54	12.20	NOT SAMPLED DUE TO INSUFFICIENT WATER				--	--	--
01/18/96	519.74	507.64	12.10	NOT SAMPLED DUE TO INSUFFICIENT WATER				--	--	--
04/17/96	519.74	508.87	10.87	SAMPLED SEMI-ANNUALLY		--	--	--	--	--
07/16/96	519.74	508.26	11.48	NOT SAMPLED DUE TO INSUFFICIENT WATER				--	--	--
10/16/96	519.74	507.78	11.96	--	--	--	--	--	--	--

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-1924
4904 Southfront Road
Livermore, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	TOG (ppb)
C-8 (cont)										
03/23/01	519.74	507.78	11.96	--	--	--	--	--	--	--
09/28/01	519.74	DRY	--	--	--	--	--	--	--	--
DESTROYED										
C-10										
03/28/86	520.41	--	--	--	--	--	--	--	--	--
03/15/88	520.41	505.55	14.86	90	7.0	ND	ND	ND	--	--
05/10/88	520.41	505.51	14.90	--	--	--	--	--	--	--
06/10/88	520.41	504.47	15.94	--	--	--	--	--	--	--
07/25/88	520.41	505.56	14.85	--	--	--	--	--	--	--
10/13/88	520.41	505.51	14.90	ND	ND	ND	ND	ND	--	--
01/01/89	520.41	505.58	14.83	--	--	--	--	--	--	--
01/12/89	520.41	--	--	ND	ND	ND	ND	ND	--	--
04/11/89	520.41	505.51	14.90	ND	4.8	ND	ND	ND	--	ND
06/26/89	520.41	505.29	15.12	ND	0.7	ND	ND	1.5	--	4.0
10/13/89	520.41	505.30	15.11	ND	ND	ND	ND	ND	--	ND
01/03/90	520.41	505.40	15.01	ND	ND	ND	ND	ND	--	--
05/07/90	520.41	504.88	15.53	ND	ND	ND	ND	ND	--	--
09/27/90	520.41	505.21	15.20	ND	ND	ND	ND	ND	--	--
01/03/91	520.41	505.35	15.06	ND	ND	ND	ND	ND	--	--
04/12/91	520.41	505.55	14.86	110	16	ND	2.9	2.7	--	--
09/04/91	520.41	505.19	15.22	ND	ND	ND	ND	ND	--	--
04/06/92	520.41	506.20	14.21	57	ND	ND	ND	ND	--	--
07/28/92	520.41	505.63	14.78	ND	ND	ND	ND	ND	--	--
10/16/92	520.41	504.90	15.51	ND	ND	ND	ND	ND	--	--
01/14/93	520.41	506.97	13.44	88	4.7	ND	2.3	1.6	--	--
03/26/93	520.41	507.86	12.55	ND	ND	ND	ND	ND	--	--
04/22/93	520.41	506.67	13.74	ND	ND	ND	ND	ND	--	--
07/20-21/93	520.41	503.92	16.49	100	ND	ND	ND	ND	--	--
10/20/93	520.41	505.77	14.64	ND	ND	ND	ND	ND	--	--
01/20/94	520.41	506.02	14.39	ND	ND	ND	ND	ND	--	--
04/21/94	520.41	505.79	14.62	ND	0.8	ND	ND	ND	--	--

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-1924
4904 Southfront Road
Livermore, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	TOG (ppb)
C-10 (cont)										
07/21-22/94	520.41	505.84	14.57	ND	ND	ND	ND	ND	--	--
01/18/95	520.41	506.77	13.64	<50	1.2	<0.5	<0.5	<0.5	--	--
04/17/95	520.41	506.87	13.54	SAMPLED SEMI-ANNUALLY		--	--	--	--	--
07/18/95	520.41	506.97	13.44	<50	<0.5	<0.5	<0.5	<0.5	--	--
10/17/95	520.41	506.63	13.78	--	--	--	--	--	--	--
01/18/96	520.41	506.81	13.60	<125	3.7	<1.2	<1.2	<1.2	1,000	--
04/17/96	520.41	507.23	13.18	--	--	--	--	--	--	--
07/16/96	520.41	507.30	13.11	<200	<2.0	<2.0	<2.0	<2.0	1,000	--
10/16/96	520.41	506.91	13.50	--	--	--	--	--	--	--
09/28/01	520.41	506.36	14.05	--	--	--	--	--	--	--
DESTROYED										
C-14										
03/28/86	520.08	--	--	--	--	--	--	--	--	--
03/15/88	520.08	--	--	--	--	--	--	--	--	--
05/10/88	520.08	506.69	13.39	120,000	13,000	29,000	2,700	18	--	--
06/10/88	520.08	505.43	14.65	--	--	--	--	--	--	--
07/25/88	520.08	506.61	13.47	--	--	--	--	--	--	--
10/13/88	520.08	506.50	13.58	ND	ND	ND	ND	ND	--	--
01/01/89	520.08	507.08	13.00	--	--	--	--	--	--	--
01/12/89	520.08	--	--	--	ND	ND	ND	ND	--	--
04/12/89	520.08	506.61	13.47	--	ND	ND	ND	ND	--	ND
06/26/89	520.08	506.28	13.80	140,000	14,000	25,000	3,400	26,000	--	--
10/13/89	520.08	506.46	13.62	86,000	12,000	16,000	1,600	13,000	--	--
01/03/90	520.08	506.17	13.91	120,000	9,500	16,000	1,800	13,000	--	--
01/04/90	520.08	506.17	13.91	76,000	3,900	8,100	1,200	7,700	--	--
05/08/90	520.08	506.19	13.89	62,000	7,500	17,000	1,400	14,000	--	--
09/27/90	520.08	506.30	13.78	--	--	--	--	--	--	--
01/03/91	520.08	506.36	13.72	--	--	--	--	--	--	--
04/12/91	520.08	507.11	12.97	60,000	750	3,800	720	9,200	--	--
09/04/91	520.08	506.24	13.84	110,000	2,800	11,000	1,300	13,000	--	--
04/06/92	520.08	507.64	12.44	41,000	190	1,800	440	5,100	--	--

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-1924
4904 Southfront Road
Livermore, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	TOG (ppb)
C-14 (cont)										
07/28/92	520.08	506.38	13.70	130,000	2,300	9,700	1,800	15,000	--	--
10/16/92	520.08	505.70	14.38	--	--	--	--	--	--	--
01/14/93	520.08	511.28	8.80	27,000	220	790	220	2,700	--	--
03/26/93	520.08	510.96	9.12	23,000	330	1,600	460	4,000	--	--
04/22/93[1]	520.08	507.98	12.10	17,000	840	2,300	130	3,500	--	--
07/20-21/93	520.08	INACCESSIBLE		--	--	--	--	--	--	--
10/20/93	520.08	505.77	14.31	NOT SAMPLED DUE TO INSUFFICIENT WATER				--	--	--
01/20/94	520.08	507.94	12.14	22,000	130	790	270	2,400	--	--
04/21/94	520.08	508.15	11.93	9,400	88	330	72	960	--	--
07/21-22/94	520.08	506.94	13.14	6,200	92	180	30	530	--	--
01/18/95	520.08	DRY	--	--	--	--	--	--	--	--
04/17/95	520.08	DRY	--	--	--	--	--	--	--	--
07/18/95	520.08	DRY	--	--	--	--	--	--	--	--
10/17/95	520.08	507.64	12.44	NOT SAMPLED DUE TO INSUFFICIENT WATER				--	--	--
01/18/96	520.08	507.84	12.24	NOT SAMPLED DUE TO INSUFFICIENT WATER				--	--	--
04/17/96	520.08	507.91	12.17	NOT SAMPLED DUE TO INSUFFICIENT WATER				--	--	--
07/16/96	520.08	508.55	11.53	NOT SAMPLED DUE TO INSUFFICIENT WATER				--	--	--
10/16/96	520.08	507.98	12.10	NOT SAMPLED DUE TO INSUFFICIENT WATER				--	--	--
04/10/97	520.08	508.11	11.97	NOT SAMPLED DUE TO INSUFFICIENT WATER				--	--	--
10/20/97	520.08	507.79	12.29	NOT SAMPLED DUE TO INSUFFICIENT WATER				--	--	--
10/07/98	520.08	508.27	11.81	NOT SAMPLED DUE TO INSUFFICIENT WATER				--	--	--
04/14/99	520.08	508.15	11.93	NOT SAMPLED DUE TO INSUFFICIENT WATER				--	--	--
04/27/99	520.08	508.36	11.72	NOT SAMPLED DUE TO INSUFFICIENT WATER				--	--	--
01/21/00	520.08	507.85	12.23	NOT SAMPLED DUE TO INSUFFICIENT WATER				--	--	--
03/23/01	520.08	508.12	11.96	--	--	--	--	--	--	--
09/28/01	520.08	DRY	--	--	--	--	--	--	--	--
DESTROYED										
C-15										
03/28/86	522.41	509.27	13.14	--	--	--	--	--	--	--
03/15/88	522.41	507.28	15.13	ND	ND	ND	ND	ND	--	--
05/10/88	522.41	507.01	15.40	--	--	--	--	--	--	--

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-1924
4904 Southfront Road
Livermore, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	TOG (ppb)
C-15 (cont)										
06/10/88	522.41	505.92	16.49	--	--	--	--	--	--	--
07/25/88	522.41	507.24	15.17	--	--	--	--	--	--	--
10/13/88	522.41	507.08	15.33	ND	ND	ND	ND	ND	--	--
01/01/89	522.41	508.71	13.70	--	--	--	--	--	--	--
01/12/89	522.41	--	--	ND	ND	ND	ND	ND	--	--
04/12/89	522.41	507.07	15.34	ND	ND	ND	ND	ND	--	ND
06/26/89	522.41	506.69	15.72	ND	ND	ND	ND	ND	--	ND
10/13/89	522.41	506.45	15.96	ND	ND	ND	ND	ND	--	ND
01/03/90	522.41	506.99	15.42	ND	ND	ND	ND	ND	--	--
05/08/90	522.41	506.79	15.62	ND	ND	ND	ND	ND	--	--
09/27/90	522.41	506.82	15.59	ND	ND	ND	ND	ND	--	--
01/03/91	522.41	506.91	15.50	ND	ND	ND	ND	0.6	--	--
04/12/91	522.41	507.20	15.21	--	--	--	--	--	--	--
09/04/91	522.41	506.51	15.90	--	--	--	--	--	--	--
04/06/92	522.41	507.53	14.88	ND	ND	ND	ND	ND	--	--
07/28/92	522.41	506.59	15.82	ND	ND	ND	ND	ND	--	--
10/16/92	522.41	506.16	16.25	ND	ND	ND	ND	ND	--	--
01/14/93	522.41	509.93	12.48	61	ND	1.9	0.8	5.1	--	--
03/26/93	522.41	509.74	12.67	ND	ND	ND	ND	1.0	--	--
04/22/93	522.41	508.81	13.60	ND	ND	ND	ND	ND	--	--
07/20-21/93	522.41	505.54	16.87	ND	ND	ND	ND	ND	--	--
10/20/93	522.41	507.17	15.24	ND	ND	ND	ND	ND	--	--
01/20/94	522.41	507.40	15.01	ND	ND	ND	ND	ND	--	--
04/21/94	522.41	507.19	15.22	ND	ND	ND	ND	ND	--	--
07/21-22/94	522.41	507.06	15.35	ND	ND	ND	ND	ND	--	--
DESTROYED										
C-16										
03/28/86	519.68	--	--	--	--	--	--	--	--	--
03/15/88	519.68	--	--	--	--	--	--	--	--	--
05/10/88	519.68	505.90	13.78	4,500	1,000	73	140	180	--	--
06/10/88	519.68	504.80	14.88	--	--	--	--	--	--	--

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-1924
4904 Southfront Road
Livermore, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	TOG (ppb)
C-16 (cont)										
07/25/88	519.68	505.99	13.69	--	--	--	--	--	--	--
10/13/88	519.68	505.88	13.80	1,600	16	5.5	ND	16	--	--
01/01/89	519.68	506.23	13.45	--	--	--	--	--	--	--
01/12/89	519.68	--	--	1,000	360	11	78	51	--	--
04/11/89	519.68	505.90	13.78	15,800	130	4.0	21	19	--	ND
06/26/89	519.68	505.66	14.02	1,300	170	8.0	37	43	--	ND
10/13/89	519.68	505.67	14.01	1,000	20	ND	7.0	ND	--	ND
01/03/90	519.68	505.71	13.97	1,300	150	3.0	41	24	--	--
05/07/90	519.68	505.23	14.45	480	49	4.4	29	13	--	--
09/29/90	519.68	505.36	14.32	360	18	2.1	11	8.0	--	--
01/03/91	519.68	505.72	13.96	230	12	ND	6.0	6.0	--	--
04/12/91	519.68	505.94	13.74	--	--	--	--	--	--	--
09/04/91	519.68	505.46	14.22	--	--	--	--	--	--	--
04/06/92	519.68	506.50	13.18	360	30	ND	14	12	--	--
07/28/92	519.68	505.75	13.93	210	31	ND	6.8	16	--	--
10/16/92	519.68	504.76	14.92	140	11	ND	5.1	3.4	--	--
01/14/93	519.68	507.87	11.81	740	24	ND	36	21	--	--
03/26/93	519.68	508.32	11.36	730	22	2.0	16	10	--	--
04/22/93	519.68	507.38	12.30	850	46	ND	24	6.0	--	--
07/20-21/93	519.68	INACCESSIBLE		--	--	--	--	--	--	--
10/20/93	519.68	505.68	14.00	290	18	2.0	16	17	--	--
01/20/94	519.68	506.20	13.48	360	10	1.0	12	9.0	--	--
04/21/94	519.68	505.76	13.92	220	15	ND	13	11	--	--
07/21-22/94	519.68	506.12	13.56	72	1.2	ND	ND	1.0	--	--
01/18/95	519.68	INACCESSIBLE		--	--	--	--	--	--	--
04/17/95	519.68	INACCESSIBLE		--	--	--	--	--	--	--
07/18/95	519.68	INACCESSIBLE		--	--	--	--	--	--	--
10/17/95	519.68	INACCESSIBLE		--	--	--	--	--	--	--
01/18/96	519.68	INACCESSIBLE		--	--	--	--	--	--	--
04/17/96	519.68	INACCESSIBLE		--	--	--	--	--	--	--
07/16/96	519.68	INACCESSIBLE		--	--	--	--	--	--	--
10/16/96	519.68	INACCESSIBLE		--	--	--	--	--	--	--

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-1924
4904 Southfront Road
Livermore, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	TOG (ppb)
C-16 (cont)										
03/23/01	519.68	UNABLE TO LOCATE		--	--	--	--	--	--	--
NOT MONITORED/SAMPLED - UNABLE TO LOCATE										
C-17										
03/28/86	520.82	507.34	13.48	--	--	--	--	--	--	--
03/15/88	520.82	506.06	14.76	--	--	--	--	--	--	--
05/10/88	520.82	506.05	14.77	--	--	--	--	--	--	--
06/10/88	520.82	504.98	15.84	--	--	--	--	--	--	--
07/25/88	520.82	506.19	14.63	--	--	--	--	--	--	--
10/13/88	520.82	505.99	14.83	270,000	18	900	760	5,500	--	--
01/01/89	520.82	506.04	14.78	--	--	--	--	--	--	--
01/12/89	520.82	--	--	190,000	ND	490	2,100	6,700	--	--
04/11/89	520.82	505.99	14.83	27,000	30	150	320	1,000	--	6.0
06/26/89	520.82	505.79	15.03	20,000	50	390	660	2,000	--	ND
06/26/89	520.82	505.79	15.03	27,000	40	420	740	2,200	--	--
10/13/89	520.82	505.80	15.02	17,000	ND	48	230	480	--	ND
01/03/90	520.82	505.72	15.10	14,000	ND	29	120	210	--	--
05/08/90	520.82	505.70	15.12	9,500	25	130	210	470	--	--
09/29/90	520.82	505.83	14.99	ND	ND	ND	ND	ND	--	--
09/29/90	520.82	505.83	14.99	ND	ND	3.4	ND	ND	--	--
01/03/91	520.82	505.90	14.92	3,700	ND	28	56	140	--	--
01/03/91	520.82	505.90	14.92	8,600	ND	10	59	150	--	--
04/12/91	520.82	506.11	14.71	8,600	ND	5.0	47	120	--	--
04/12/91	520.82	506.11	14.71	4,400	ND	11	48	120	--	--
09/04/91	520.82	505.65	15.17	5,800	ND	27	49	79	--	--
09/04/91	520.82	505.65	15.17	4,100	ND	21	36	61	--	--
04/06/92	520.82	506.68	14.14	2,300	ND	5.8	27	29	--	--
07/28/92	520.82	505.64	15.18	11,000	99	180	170	430	--	--
10/16/92	520.82	505.06	15.76	1,200,000	ND	4,800	3,900	6,600	--	--
01/14/93	520.82	507.38	13.44	3,500	9.3	9.1	23	34	--	--
03/26/93	520.82	508.36	12.46	3,700	ND	19	20	35	--	--
04/22/93	520.82	507.52	13.30	8,900	16	68	44	97	--	--

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-1924
4904 Southfront Road
Livermore, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	TOG (ppb)
C-17 (cont)										
07/20-21/93	520.82	503.61	17.21	4,200	5.0	35	33	62	--	--
10/20/93	520.82	505.73	15.09	4,500	5.0	12	43	64	--	--
01/20/94	520.82	506.35	14.47	1,900	4.0	42	24	73	--	--
04/21/94	520.82	505.87	14.95	1,100	5.0	20	23	42	--	--
07/21-22/94	520.82	506.22	14.60	72	ND	ND	ND	0.9	--	--
01/18/95	520.82	507.12	13.70	530	1.7	<0.5	5.6	8.8	--	--
04/17/95	520.82	507.57	13.25	440	1.9	3.0	3.6	2.4	--	--
07/18/95	520.82	507.38	13.44	140	5.5	<0.5	<0.5	<0.5	--	--
10/17/95	520.82	507.32	13.50	110	<0.5	<0.5	<0.5	0.62	<2.5	--
01/18/96	520.82	507.80	13.02	310	19	30	5.6	40	28	--
04/17/96	520.53	507.83	12.70	<50	<0.5	<0.5	<0.5	<0.5	7.2	--
07/16/96	520.53	507.86	12.67	54	1.7	1.0	0.97	3.3	34	--
10/16/96	520.53	506.83	13.70	200	0.50	0.57	<0.5	2.2	15	--
04/10/97	520.53	507.34	13.19	100	<0.5	<0.5	<0.5	<0.5	66	--
10/20/97	520.53	507.18	13.35	64	<0.5	<0.5	<0.5	<0.5	22	--
04/30/98	520.53	507.83	12.70	<50	<0.5	<0.5	<0.5	<0.5	47	--
10/07/98	520.53	507.60	12.93	56	0.81	<0.5	<0.5	<0.5	72	--
04/14/99	520.53	507.48	13.05	<50	<0.5	0.549	<0.5	<0.5	82	--
01/21/00	520.53	507.25	13.28	<50	<0.5	<0.5	<0.5	<0.5	29.9	--
03/23/01	520.53	507.14	13.39	<50.0	<0.500	<0.500	<0.500	<0.500	9.40/8.9[4]	--
09/28/01	520.53	506.84	13.69	83	<0.50	<0.50	<0.50	<1.5	27	--
DESTROYED										
C-18										
03/28/86	518.96	--	--	--	--	--	--	--	--	--
03/15/88	518.96	--	--	--	--	--	--	--	--	--
05/10/88	518.96	--	--	--	--	--	--	--	--	--
06/10/88	518.96	504.07	14.89	--	--	--	--	--	--	--
07/25/88	518.96	505.17	13.79	--	--	--	--	--	--	--
10/13/88	518.96	505.10	13.86	ND	ND	ND	ND	ND	--	--
01/01/89	518.96	505.02	13.94	--	--	--	--	--	--	--
01/12/89	518.96	--	--	ND	ND	ND	ND	ND	--	--

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-1924
4904 Southfront Road
Livermore, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	TOG (ppb)
C-18 (cont)										
04/11/89	518.96	504.10	14.86	ND	ND	ND	ND	ND	--	ND
06/26/89	518.96	504.94	14.02	ND	ND	ND	ND	ND	--	ND
10/13/89	518.96	503.90	15.06	ND	ND	ND	ND	ND	--	ND
01/03/90	518.96	504.89	14.07	ND	ND	ND	ND	ND	--	--
05/07/90	518.96	504.95	14.01	ND	ND	ND	ND	ND	--	--
09/27/90	518.96	505.05	13.91	ND	ND	ND	ND	ND	--	--
01/03/91	518.96	504.98	13.98	ND	ND	ND	ND	ND	--	--
04/12/91	518.96	505.13	13.83	ND	ND	ND	ND	ND	--	--
09/04/91	518.96	504.76	14.20	ND	ND	ND	ND	ND	--	--
04/06/92	518.96	505.89	13.07	ND	ND	ND	ND	ND	--	--
07/28/92	518.96	505.41	13.55	ND	ND	ND	ND	ND	--	--
10/16/92	518.96	504.58	14.38	ND	ND	ND	ND	ND	--	--
01/14/93	518.96	506.50	12.46	56	ND	ND	ND	1.8	--	--
03/26/93	518.96	507.50	11.46	ND	ND	ND	ND	ND	--	--
04/22/93	518.96	506.38	12.58	ND	ND	ND	ND	ND	--	--
07/20-21/93	518.96	503.32	15.64	92	ND	0.5	ND	ND	--	--
10/20/93	518.96	--	--	--	--	--	--	--	--	--
01/20/94	518.96	--	--	--	--	--	--	--	--	--
04/21/94	518.96	--	--	--	--	--	--	--	--	--
07/16/96	518.96	--	--	--	--	--	--	--	--	--
03/23/01	518.96	UNABLE TO LOCATE		--	--	--	--	--	--	--
NOT MONITORED/SAMPLED										
C-19										
03/28/86	520.99	--	--	--	--	--	--	--	--	--
03/15/88	520.99	--	--	--	--	--	--	--	--	--
05/10/88	520.99	505.76	15.23	18	1,400	360	350	1,300	--	--
06/10/88	520.99	504.41	16.58	--	--	--	--	--	--	--
07/25/88	520.99	505.80	15.19	--	--	--	--	--	--	--
10/13/88	520.99	505.72	15.27	ND	8.3	4.7	4.4	ND	--	--
01/01/89	520.99	505.79	15.20	--	--	--	--	--	--	--
01/12/89	520.99	--	--	ND	5.0	4.0	ND	ND	--	--

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-1924
4904 Southfront Road
Livermore, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	TOG (ppb)
C-19 (cont)										
04/11/89	520.99	505.75	15.24	ND	1.8	ND	ND	ND	--	ND
04/11/89	520.99	505.75	15.24	500	1.2	ND	0.6	0.6	--	--
06/26/89	520.99	505.55	15.44	500	2.5	ND	ND	ND	--	ND
10/13/89	520.99	505.52	15.47	540	ND	ND	ND	ND	13	ND
01/03/90	520.99	505.54	15.45	ND	1.2	0.7	1.3	0.9	--	--
05/07/90	520.99	505.31	15.68	ND	ND	ND	ND	ND	--	--
09/28/90	520.99	505.47	15.52	ND	ND	ND	ND	ND	--	--
01/03/91	520.99	505.43	15.56	66	ND	ND	ND	ND	--	--
04/12/91	520.99	505.79	15.20	--	--	--	--	--	--	--
09/04/91	520.99	505.39	15.60	--	--	--	--	--	--	--
04/06/92	520.99	506.41	14.58	110	0.7	ND	1.0	ND	--	--
07/28/92	520.99	505.73	15.26	ND	1.4	ND	1.0	4.2	--	--
10/16/92	520.99	504.99	16.00	ND	ND	ND	ND	ND	--	--
01/14/93	520.99	507.30	13.69	100	1.1	ND	0.9	0.9	--	--
03/26/93	520.99	508.03	12.96	80	ND	ND	ND	ND	--	--
04/22/93	520.99	506.81	14.18	250	0.6	1.0	1.0	1.0	--	--
07/20-21/93	520.99	504.41	16.58	390	ND	ND	0.8	2.0	--	--
10/20/93	520.99	505.76	15.23	ND	ND	ND	ND	ND	--	--
01/20/94	520.99	506.15	14.84	ND	ND	ND	ND	ND	--	--
04/21/94	520.99	505.73	15.26	60	ND	ND	1.0	ND	--	--
07/21-22/94	520.99	506.09	14.90	ND	ND	ND	ND	ND	--	--
01/18/95	520.99	506.97	14.02	<50	<0.5	<0.5	<0.5	<0.5	--	--
04/17/95	520.99	507.19	13.80	SAMPLED SEMI-ANNUALLY		--	--	--	--	--
07/18/95	520.99	507.27	13.72	150	<0.5	<0.5	<0.5	<0.5	--	--
10/17/95	520.99	506.89	14.10	--	--	--	--	--	--	--
01/18/96	520.99	507.18	13.81	76	<0.5	<0.5	<0.5	<0.5	120	--
04/17/96	520.96	507.56	13.40	--	--	--	--	--	--	--
07/16/96	520.96	507.49	13.47	530	<2.5	<2.5	<2.5	<2.5	1,200	--
10/16/96	520.96	507.13	13.83	--	--	--	--	--	--	--
04/10/97	520.96	507.06	13.90	<500	<5.0	<5.0	<5.0	<5.0	1,600	--
10/20/97	520.96	506.94	14.02	SAMPLED ANNUALLY		--	--	--	--	--
04/30/98	520.96	507.49	13.47	<500	<5.0	<5.0	<5.0	<5.0	1,100	--

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-1924
4904 Southfront Road
Livermore, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	TOG (ppb)
C-19 (cont)										
10/07/98	520.96	507.87	13.09	--	--	--	--	--	--	--
04/14/99	520.96	INACCESSIBLE		--	--	--	--	--	--	--
04/27/99	520.96	507.17	13.79	124	<0.5	<0.5	<0.5	<0.5	434	--
01/21/00	520.96	507.01	13.95	109	<0.5	<0.5	<0.5	<0.5	239	--
03/23/01	520.96	506.98	13.98	--	--	--	--	--	--	--
09/28/01	520.96	506.70	14.26	--	--	--	--	--	--	--
DESTROYED										
RW-1										
09/28/01	--	UNABLE TO LOCATE		--	--	--	--	--	--	--
12/28/01	--	UNABLE TO LOCATE		--	--	--	--	--	--	--
03/29/02	--	UNABLE TO LOCATE		--	--	--	--	--	--	--
ASSUMED DESTROYED (Per Lead Consultant 11/30/01)										
TRIP BLANK										
01/18/95	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
04/17/95	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
07/18/95	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
10/17/95	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
01/18/96	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
04/17/96	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
07/16/96	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
10/16/96	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
04/10/97	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
10/20/97	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
04/30/98	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
10/07/98	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
01/08/99	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
04/14/99	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
04/27/99	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
01/21/00	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-1924
4904 Southfront Road
Livermore, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	TOG (ppb)
TRIP BLANK (cont)										
03/23/01	--	--	--	<50.0	<0.500	<0.500	<0.500	<0.500	<0.500	--
09/28/01	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
QA										
12/28/01	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
03/29/02	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
06/13/02	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
09/10/02	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
12/09/02	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
03/04/03	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
06/06/03[5]	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
09/04/03[5]	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
12/03/03[5]	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
03/01/04[5]	--	--	--	--	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	--

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-1924
4904 Southfront Road
Livermore, California

EXPLANATIONS:

Groundwater monitoring data and laboratory analytical results prior to March 23, 2001, were compiled from reports prepared by Blaine Tech Services, Inc.

TOC = Top of Casing
(ft.) = Feet
GWE = Groundwater Elevation
(msl) = Mean sea level
DTW = Depth to Water
TPH-G = Total Petroleum Hydrocarbons as Gasoline
B = Benzene
T = Toluene
E = Ethylbenzene
X = Xylenes
MTBE = Methyl tertiary butyl ether
TOG = Total Oil and Grease
(ppb) = Parts per billion
-- = Not Measured/Not Analyzed
ND = Not Detected
QA = Quality Assurance/Trip Blank

* TOC elevations for C-7, C-9, C-12, C-13, and C-20 were surveyed June 10, 2003, by Virgil Chavez Land Surveying. The benchmark used for the survey was a City of Livermore monument at First and "Q" Streets, (Benchmark Elevation = 469.246 feet, NGVD 29).

1 Sheen.
2 Confirmation run.
3 Well head elevation altered due to casing repairs.
4 MTBE by EPA Method 8260.
5 BTEX and MTBE by EPA Method 8260.

Table 2

Groundwater Analytical Results - Oxygenate Compounds

Chevron Service Station #9-1924
4904 Southfront Street
Livermore, California

WELL ID/ DATE	ETHANOL (ppb)	TBA (ppb)	MTBE (ppb)	DIPE (ppb)	ETBE (ppb)	TAME (ppb)
C-7						
03/23/01	--	<50	38	<2.0	<2.0	<2.0
03/29/02	--	<100	12	<2	<2	<2
03/04/03	--	<5	11	<0.5	<0.5	<0.5
06/06/03	--	--	20	--	--	--
09/04/03	<50	--	86	--	--	--
12/03/03	<50	--	77	--	--	--
03/01/04	--	--	**15**	--	--	--
C-9						
04/14/99	<3,750	<250	114	<2.5	<2.5	<2.5
03/23/01	--	<50	22	<2.0	<2.0	<2.0
03/29/02	--	<100	16	<2	<2	<2
12/09/02	--	--	15	--	--	--
03/04/03	--	13	5	<0.5	<0.5	<0.5
06/06/03	--	--	4	--	--	--
09/04/03	<50	--	39	--	--	--
12/03/03	<50	--	49	--	--	--
03/01/04	--	--	**10**	--	--	--
C-11						
04/14/99	<30,000	<2,000	1,390	<20	<20	<20
03/23/01	--	<50	110	<2.0	<2.0	<2.0
03/29/02	--	<100	3	<2	<2	<2
03/04/03	INACCESSIBLE - VEHICLE PARKED OVER WELL			--	--	--
06/06/03	--	--	9	--	--	--
09/04/03	<50	--	11	--	--	--
12/03/03	<50	--	7	--	--	--
03/01/04	--	--	**9**	--	--	--

Table 2

Groundwater Analytical Results - Oxygenate Compounds

Chevron Service Station #9-1924
4904 Southfront Street
Livermore, California

WELL ID/ DATE	ETHANOL (ppb)	TBA (ppb)	MTBE (ppb)	DIPE (ppb)	ETBE (ppb)	TAME (ppb)
C-12						
03/29/02	--	<100	<2	<2	<2	<2
03/04/03	--	<5	<0.5	<0.5	<0.5	<0.5
06/06/03	--	--	<0.5	--	--	--
09/04/03	<50	--	<0.5	--	--	--
12/03/03	<50	--	<0.5	--	--	--
03/01/04	--	--	**<0.5**	--	--	--
C-13						
03/29/02	--	<100	7	<2	<2	<2
03/04/03	--	<5	<0.5	<0.5	<0.5	<0.5
06/06/03	--	--	<0.5	--	--	--
09/04/03	<50	--	<0.5	--	--	--
12/03/03	<50	--	<0.5	--	--	--
03/01/04	--	--	**<0.5**	--	--	--
C-20						
04/14/99	<3,000	<200	<2.0	<2.0	<2.0	<2.0
03/29/02	--	<100	<2	<2	<2	<2
03/04/03	--	<5	<0.5	<0.5	<0.5	<0.5
06/06/03	--	--	<0.5	--	--	--
09/04/03	<50	--	<0.5	--	--	--
12/03/03	<50	--	<0.5	--	--	--
03/01/04	--	--	**<0.5**	--	--	--
C-21						
03/29/02	--	<100	<2	<2	<2	<2
03/04/03	--	<5	<0.5	<0.5	<0.5	<0.5
06/06/03	--	--	<0.5	--	--	--
09/04/03	<50	--	<0.5	--	--	--
12/03/03	<50	--	<0.5	--	--	--
03/01/04	--	--	**<0.5**	--	--	--

Table 2

Groundwater Analytical Results - Oxygenate Compounds

Chevron Service Station #9-1924
4904 Southfront Street
Livermore, California

WELL ID/ DATE	ETHANOL (ppb)	TBA (ppb)	MTBE (ppb)	DIPE (ppb)	ETBE (ppb)	TAME (ppb)
C-2						
04/14/99	<3,000	<200	5.35	<2.0	<2.0	<2.0
DESTROYED						
C-5						
04/14/99	<9,990	<666	619	<6.66	<6.66	27.3
DESTROYED						
C-6						
04/14/99	<3,000	<200	138	<2.0	<2.0	10.7
DESTROYED						
C-17						
04/14/99	<3,000	<200	83.1	<2.0	<2.0	<2.0
03/23/01	--	<50	8.9	<2.0	<2.0	<2.0

Table 2

Groundwater Analytical Results - Oxygenate Compounds

Chevron Service Station #9-1924
4904 Southfront Street
Livermore, California

EXPLANATIONS:

Groundwater laboratory analytical results prior to March 23, 2001, were compiled from reports prepared by Blaine Tech Services, Inc.

TBA = Tertiary butyl alcohol
MTBE = Methyl tertiary butyl ether
DIPE = Di-isopropyl ether
ETBE = Ethyl tertiary butyl ether
TAME = Tertiary amyl methyl ether
(ppb) = Parts per billion
-- = Not Analyzed

ANALYTICAL METHOD:

EPA Method 8260 for Oxygenate Compounds

Table 3
Groundwater Analytical Results
Chevron Service Station #9-1924
4904 Southfront Road
Livermore, California

WELL ID/ DATE	1,2-DCA (ppb)	VC (ppb)	MC (ppb)	1,1,1-TCA (ppb)	1,1-DCA (ppb)	PCE (ppb)	T. Lead (ppb)	D. Lead (ppb)	CDS (ppb)
C-7									
04/12/89	ND	--	--	--	--	--	--	--	--
06/26/89	ND	--	--	--	--	--	--	--	--
10/13/89	ND	--	--	--	--	--	--	--	--
01/03/90	1.0	--	--	--	--	--	--	--	--
05/08/90	1.7	--	ND	--	ND	--	--	--	--
09/29/90	0.7	--	ND	ND	ND	ND	--	--	--
01/03/91	0.7	--	ND	ND	ND	ND	--	--	--
04/12/91	0.6	--	ND	ND	ND	ND	--	--	--
10/07/91	ND	--	24	ND	ND	ND	--	--	--
04/06/92	ND	--	ND	ND	ND	ND	--	--	--
07/20-21/93[1]	--	--	--	--	--	--	--	--	--
01/20/94[1]	--	--	--	--	--	--	--	--	--
07/21,22/94	--	--	--	--	--	--	ND	--	--
C-9									
04/12/89	2.1	--	--	--	--	--	--	--	--
04/11/89	ND	--	--	--	--	--	--	--	--
06/26/89	ND	--	--	--	--	--	--	--	--
10/13/89	ND	--	--	--	--	--	--	--	--
01/03/90	1.5	--	--	--	--	--	--	--	--
05/07/90	1.9	--	ND	--	ND	--	--	--	--
09/29/90	1.0	--	0.7	1.8	1.0	--	--	--	--
01/03/91	0.8	--	ND	ND	ND	ND	--	--	--
04/06/92	ND	--	ND	ND	ND	ND	--	--	--
07/21,22/94	--	--	--	--	--	--	13	--	--
04/10/97	<0.5	<1.0	<5.0	<0.5	<0.5	<0.5	--	--	--
10/20/97	--	--	--	--	--	--	--	<5.0	--
04/30/98	<0.5	<1.0	<5.0	<0.5	<0.5	<0.5	--	--	--
04/14/99[1]	<0.5	<1.0	<5.0	<0.5	<0.5	<0.5	--	--	--
01/21/00	<0.5	<1.0	<5.0	<0.5	<0.5	<0.5	--	--	--
09/28/01[2]	<2	<1	<2	<1	<1	<1	--	--	--
12/28/01[2]	<2	<1	<2	<1	<1	<1	--	--	--
03/29/02[2]	<2	<1	<2	<1	<1	<1	--	--	--
06/13/02[2]	<2	<1	<2	<1	<1	<1	--	--	--
09/10/02[2]	<2	<1	<2	<1	<1	<1	--	--	--
12/09/02[2]	<2	<1	<2	<1	<1	<1	--	--	--
03/04/03[2]	<0.5	<1	<2	<0.8	<1	<0.8	--	--	--
06/06/03[2]	<0.5	<1	<2	<0.8	<1	<0.8	--	--	--
09/04/03[2]	<0.5	<1	<2	<0.8	<1	<0.8	--	--	--
12/03/03[2]	<1	<1	<2	<0.8	<1	<0.8	--	--	--

Table 3

Groundwater Analytical Results

Chevron Service Station #9-1924

4904 Southfront Road

Livermore, California

WELL ID/ DATE	1,2-DCA (ppb)	VC (ppb)	MC (ppb)	1,1,1-TCA (ppb)	1,1-DCA (ppb)	PCE (ppb)	T. Lead (ppb)	D. Lead (ppb)	CDS (ppb)
C-11									
04/12/89	ND	--	--	--	--	--	--	--	--
06/26/89	ND	--	--	--	--	--	--	--	--
10/13/89	ND	--	--	--	--	--	--	--	--
01/03/90	ND	--	--	--	--	--	--	--	--
05/08/90	ND	--	ND	--	ND	--	--	--	--
09/28/90	ND	--	1.2	ND	ND	--	--	--	--
01/03/91	ND	--	ND	ND	ND	1.0	--	--	--
04/06/92	ND	--	ND	ND	ND	ND	--	--	--
07/21,22/94	--	--	--	--	--	--	7.0	--	--
10/20/97	--	--	--	--	--	--	--	25	--
C-12									
04/11/89	ND	--	--	--	--	--	--	--	--
06/26/89	ND	--	--	--	--	--	--	--	--
10/13/89	ND	--	--	--	--	--	--	--	--
01/03/90	ND	--	--	--	--	--	--	--	--
05/07/90	ND	--	ND	--	ND	--	--	--	--
09/27/90	ND	--	1.2	ND	ND	--	--	--	--
01/03/91	ND	--	ND	ND	ND	ND	--	--	--
04/06/92	ND	--	ND	ND	ND	ND	--	--	--
07/28/92	--	--	--	--	--	--	--	--	--
07/21,22/94	--	--	--	--	--	--	ND	--	--
C-13									
04/10/89	ND	--	--	--	--	--	--	--	--
06/26/89	ND	--	--	--	--	--	--	--	--
10/13/89	ND	--	--	--	--	--	--	--	--
01/03/90	ND	--	--	--	--	--	--	--	--
05/08/90	ND	--	ND	--	ND	--	--	--	--
09/27/90	ND	--	1.7	ND	ND	--	--	--	--
01/03/91	ND	--	ND	ND	ND	ND	--	--	--
04/06/92	ND	--	ND	ND	ND	ND	--	--	--
07/21,22/94	--	--	--	--	--	--	ND	--	--
C-1									
04/10/89	ND	--	--	--	--	--	--	--	--
04/10/89	ND	--	--	--	--	--	--	--	--
06/26/89	3.0	--	--	--	--	--	--	--	--
06/26/89	1.7	--	--	--	--	--	--	--	--
10/13/89	ND	--	--	--	--	--	--	--	5.0
01/03/90	1.0	--	--	--	--	--	--	--	--
05/08/90	1.2	--	ND	--	ND	--	--	--	--
09/29/90	ND	--	0.7	1.4	ND	--	--	--	--

Table 3

Groundwater Analytical Results

Chevron Service Station #9-1924

4904 Southfront Road

Livermore, California

WELL ID/ DATE	1,2-DCA (ppb)	VC (ppb)	MC (ppb)	1,1,1-TCA (ppb)	1,1-DCA (ppb)	PCE (ppb)	T. Lead (ppb)	D. Lead (ppb)	CDS (ppb)
C-1 (cont)									
01/03/91	ND	--	ND	ND	ND	ND	--	--	--
04/06/92	ND	--	ND	ND	ND	ND	--	--	--
04/23/93[1]									
07/21,22/94	--	--	--	--	--	--	ND	--	--
NOT MONITORED/SAMPLED - UNABLE TO LOCATE									
ASSUMED DESTROYED (Per Lead Consultant 11/30/01)									
C-2									
04/10/89	ND	--	--	--	--	--	--	--	--
04/10/89	ND	--	--	--	--	--	--	--	--
06/26/89	ND	--	--	--	--	--	--	--	--
06/26/89	2.0	--	--	--	--	--	--	--	--
10/13/89	ND	--	--	--	--	--	--	--	--
01/03/90	1.0	--	--	--	--	--	--	--	--
05/08/90	1.1	--	ND	--	ND	--	--	--	--
09/29/90	ND	--	1.7	0.5	ND	--	--	--	--
01/03/91	ND	--	ND	ND	ND	ND	--	--	--
04/06/92	ND	--	ND	ND	ND	ND	--	--	--
07/21,22/94	--	--	--	--	--	--	ND	--	--
C-3									
04/10/89	1.4	--	--	--	--	--	--	--	--
06/26/89	1.5	--	--	--	--	--	--	--	--
10/13/89	ND	--	--	--	--	--	--	--	--
01/03/90	0.7	--	--	--	--	--	--	--	--
05/08/90	0.7	--	ND	--	ND	--	--	--	--
09/27/90	ND	--	1.1	1.6	ND	--	--	--	--
01/03/91	ND	--	ND	ND	ND	ND	--	--	--
04/12/91	ND	--	ND	ND	ND	ND	--	--	--
09/04/91	ND	--	ND	ND	ND	ND	--	--	--
04/06/92	ND	--	ND	ND	ND	ND	--	--	--
07/21,22/94	--	--	--	--	--	--	ND	--	--
DESTROYED									
C-5									
04/10/89	1.4	--	--	--	--	--	--	--	--
06/26/89	1.5	--	--	--	--	--	--	--	--
10/13/89	ND	--	--	--	--	--	--	--	--
01/03/90	ND	--	--	--	--	--	--	--	--
05/08/90	0.8	--	ND	--	ND	--	--	--	--
09/27/90	ND	--	0.7	ND	ND	--	--	--	--
01/03/91	ND	--	ND	ND	ND	ND	--	--	--
04/12/91	0.5	--	ND	ND	ND	ND	--	--	--

Table 3
Groundwater Analytical Results
Chevron Service Station #9-1924
4904 Southfront Road
Livermore, California

WELL ID/ DATE	1,2-DCA (ppb)	VC (ppb)	MC (ppb)	1,1,1-TCA (ppb)	1,1-DCA (ppb)	PCE (ppb)	T. Lead (ppb)	D. Lead (ppb)	CDS (ppb)
C-5 (cont)									
09/04/91	ND	--	ND	ND	ND	ND	--	--	--
04/06/92	ND	--	ND	ND	ND	ND	--	--	--
07/21,22/94	--	--	--	--	--	--	ND	--	--
DESTROYED									
C-6									
04/12/89	ND	--	--	--	--	--	--	--	--
06/26/89	ND	--	--	--	--	--	--	--	--
10/13/89	ND	--	--	--	--	--	--	--	--
01/03/90	1.0	--	--	--	--	--	--	--	--
05/08/90	1.6	--	ND	--	ND	--	--	--	--
09/29/90	1.0	--	ND	2.4	1.6	--	--	--	--
01/03/91	0.5	--	ND	ND	ND	ND	--	--	--
04/06/92	ND	--	ND	ND	ND	ND	--	--	--
07/28/92	--	--	--	--	--	--	--	--	--
07/21,22/94	--	--	--	--	--	--	ND	--	--
10/20/97	--	--	--	--	--	--	--	<5.0	--
DESTROYED									
C-8									
04/12/89	5.0	--	--	--	--	--	--	--	--
06/26/89	4.0	--	--	--	--	--	--	--	--
10/13/89	ND	--	--	--	--	--	--	--	--
01/03/90	1.5	--	--	--	--	--	--	--	--
05/07/90	1.9	--	ND	--	ND	--	--	--	--
09/29/90	ND	--	0.6	ND	ND	--	--	--	--
01/03/91	ND	--	0.7	ND	ND	ND	--	--	--
04/12/91	0.6	--	ND	ND	ND	ND	--	--	--
09/04/91	ND	--	ND	ND	ND	ND	--	--	--
04/06/92	ND	--	ND	ND	ND	ND	--	--	--
07/21,22/94	--	--	--	--	--	--	ND	--	--
DESTROYED									
C-10									
04/11/89	6.1	--	--	--	--	--	--	--	--
06/26/89	ND	--	--	--	--	--	--	--	--
10/13/89	ND	--	--	--	--	--	--	--	--
01/03/90	3.0	--	--	--	--	--	--	--	--
05/07/90	ND	--	ND	--	ND	--	--	--	--
09/27/90	ND	--	1.2	ND	ND	--	--	--	--
01/03/91	ND	--	ND	ND	ND	ND	--	--	--
04/12/91	1.0	--	ND	ND	ND	ND	--	--	--

Table 3

Groundwater Analytical Results

Chevron Service Station #9-1924
4904 Southfront Road
Livermore, California

WELL ID/ DATE	1,2-DCA (ppb)	VC (ppb)	MC (ppb)	1,1,1-TCA (ppb)	1,1-DCA (ppb)	PCE (ppb)	T. Lead (ppb)	D. Lead (ppb)	CDS (ppb)
C-10 (cont)									
09/04/91	ND	--	ND	ND	ND	ND	--	--	--
04/06/92	1.1	--	ND	ND	ND	ND	--	--	--
07/21,22/94	--	--	--	--	--	--	ND	--	--
DESTROYED									
C-14									
04/12/89	ND	--	--	--	--	--	--	--	--
06/26/89	30	--	--	--	--	--	--	--	--
01/03/90	25	3.0	--	--	--	--	--	--	--
01/04/90	18	1.0	--	--	--	--	--	--	--
05/08/90	13	--	ND	--	ND	--	--	--	--
04/12/91	ND	--	ND	ND	ND	ND	--	--	--
04/06/92	ND	--	ND	ND	ND	ND	--	--	--
04/22/93[1]	--	--	--	--	--	--	--	--	--
07/21,22/94	--	--	--	--	--	--	330	--	--
DESTROYED									
C-15									
04/12/89	ND	--	--	--	--	--	--	--	--
06/26/89	ND	--	--	--	--	--	--	--	--
10/13/89	ND	--	--	--	--	--	--	--	--
01/03/90	ND	--	--	--	--	--	--	--	--
05/08/90	ND	--	ND	--	ND	--	--	--	--
09/27/90	ND	--	2.9	ND	ND	--	--	--	--
01/03/91	ND	--	ND	ND	ND	ND	--	--	--
04/06/92	ND	--	ND	ND	ND	ND	--	--	--
07/21,22/94	--	--	--	--	--	--	ND	--	--
DESTROYED									
C-16									
04/11/89	8.0	--	--	--	--	--	--	--	--
06/26/89	ND	--	--	--	--	--	--	--	--
10/13/89	ND	--	--	--	--	--	--	--	--
01/03/90	5.0	--	--	--	--	--	--	--	--
05/07/90	4.5	--	ND	--	ND	--	--	--	--
09/29/90	1.8	--	ND	ND	ND	--	--	--	--
01/03/91	2.0	--	0.8	ND	ND	ND	--	--	--
04/06/92	1.0	--	ND	ND	ND	ND	--	--	--
07/28/92	--	--	--	--	--	--	--	--	--
07/21,22/94	--	--	--	--	--	--	8.0	--	--
NOT MONITORED/SAMPLED - UNABLE TO LOCATE									

Table 3

Groundwater Analytical Results

Chevron Service Station #9-1924

4904 Southfront Road

Livermore, California

WELL ID/ DATE	1,2-DCA (ppb)	VC (ppb)	MC (ppb)	1,1,1-TCA (ppb)	1,1-DCA (ppb)	PCE (ppb)	T. Lead (ppb)	D. Lead (ppb)	CDS (ppb)
C-17									
04/11/89	ND	--	--	--	--	--	--	--	--
06/26/89	ND	--	--	--	--	--	--	--	--
06/26/89	ND	--	--	--	--	--	--	--	--
10/13/89	ND	--	--	--	--	--	--	--	--
01/03/90	ND	--	--	--	--	--	--	--	--
05/08/90	ND	--	ND	--	ND	--	--	--	--
09/29/90	ND	--	ND	1.9	ND	--	--	--	--
09/29/90	ND	--	1.8	1.9	ND	--	--	--	--
01/03/91	ND	--	1.8	1.9	ND	ND	--	--	--
01/03/91	ND	--	ND	ND	ND	ND	--	--	--
04/12/91	ND	--	ND	ND	ND	ND	--	--	--
04/12/91	ND	--	ND	ND	ND	ND	--	--	--
09/04/91	ND	--	ND	ND	ND	ND	--	--	--
09/04/91	ND	--	ND	ND	ND	ND	--	--	--
04/06/92	ND	--	ND	ND	ND	ND	--	--	--
07/21,22/94	--	--	--	--	--	--	ND	--	--
10/20/97	--	--	--	--	--	--	--	<5.0	--
04/30/98	--	--	--	--	--	--	--	--	--
10/07/98	--	--	--	--	--	--	--	--	--
04/14/99	--	--	--	--	--	--	--	--	--
01/21/00	--	--	--	--	--	--	--	--	--
DESTROYED									
C-18									
04/11/89	3.6	--	--	--	--	--	--	--	--
06/26/89	3.1	--	--	--	--	--	--	--	--
10/13/89	ND	--	--	--	--	--	--	--	--
01/03/90	1.0	--	--	--	--	--	--	--	--
05/07/90	ND	--	ND	--	ND	--	--	--	--
09/27/90	ND	--	0.6	ND	ND	--	--	--	--
01/03/91	ND	--	ND	ND	ND	ND	--	--	--
04/12/91	ND	--	ND	ND	ND	ND	--	--	--
09/04/91	ND	--	ND	ND	ND	ND	--	--	--
04/06/92	ND	--	ND	ND	ND	ND	--	--	--
NOT MONITORED/SAMPLED									
C-19									
04/11/89	13	--	--	--	--	--	--	--	--
04/11/89	14	--	--	--	--	--	--	--	--
06/26/89	26	--	--	--	--	--	--	--	--
10/13/89	13	--	--	--	--	--	--	--	13
01/03/90	11	--	--	--	--	--	--	--	--
05/07/90	4.6	--	ND	--	ND	--	--	--	--
09/28/90	ND	--	1.2	ND	ND	--	--	--	--

Table 3

Groundwater Analytical Results

Chevron Service Station #9-1924

4904 Southfront Road

Livermore, California

WELL ID/ DATE	1,2-DCA *(ppb)*	VC *(ppb)*	MC *(ppb)*	1,1,1-TCA *(ppb)*	1,1-DCA *(ppb)*	PCE *(ppb)*	T. Lead *(ppb)*	D. Lead *(ppb)*	CDS *(ppb)*
C-19 (cont)									
01/03/91	1.0	--	ND	ND	ND	0.9	--	--	--
04/06/92	1.9	--	ND	ND	ND	ND	--	--	--
07/21,22/94	--	--	--	--	--	--	ND	--	--
DESTROYED									

Table 3

Groundwater Analytical Results

Chevron Service Station #9-1924
4904 Southfront Road
Livermore, California

EXPLANATIONS:

Groundwater laboratory analytical results prior to September 28, 2001, were compiled from reports prepared by Blaine Tech Services, Inc.

1,2-DCA = 1,2-Dichloroethane
VC = Vinyl Chloride
MC = Methylene Chloride
1,1,1-TCA = 1,1,1-Trichloroethane
1,1-DCA = 1,1-Dichloroethane
PCE = Tetrachloroethene
T. Lead = Total Lead
D. Lead = Dissolved Lead
CDS = Carbon Disulfide
(ppb) = Parts per billion
ND = Not detected
– = Not Analyzed

[1] Sampled for Volatile Organic Compounds (VOCs) by EPA Method 8010B. All analytes were ND above the detection limits <0.5 to <5.0.

[2] Hologenated Volatile Organic Compounds (HVOCs) analyzed by EPA Method 8260. All other HVOCs were less than the reporting limit; see specific lab report.

STANDARD OPERATING PROCEDURE - GROUNDWATER SAMPLING

Gettler-Ryan Inc. field personnel adhere to the following procedures for the collection and handling of groundwater samples prior to analysis by the analytical laboratory. Prior to sample collection, the type of analysis to be performed is determined. Loss prevention of volatile compounds is controlled and sample preservation for subsequent analysis is maintained.

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, suction, Grundfos), or disposable bailers. Temperature, pH and electrical conductivity are measured a minimum of three times during the purging. 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 possible. 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. 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. For sampling sets greater than 20 samples, 5% trip blanks are included. The trip blank is analyzed for some or all of the same compounds as the groundwater samples.

As requested by ChevronTexaco Company, the purge water and decontamination water generated during sampling activities is transported by IWM to McKittrick Waste Management located in McKittrick, California.

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/Facility #: ChevronTexaco #9-1924 Job Number: 386448
Site Address: 4904 Southfront Road Event Date: 3/1/04 (inclusive)
City: Livermore, CA Sampler: K. Kelly

Well ID C-7 Date Monitored: 3/1/04 Well Condition: OK
Well Diameter 2 1(3) in.
Total Depth 20.89 ft.
Depth to Water 12.45 ft.
8.44 xVF 0.38 = 3.20 x3 (case volume) = Estimated Purge Volume: 9.62 gal.

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

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

Sampling Equipment:
Disposable Bailer ✓
Pressure Bailer
Discrete Bailer
Other:

Time Started: (2400 hrs)
Time Bailed: (2400 hrs)
Depth to Product: ft
Depth to Water: ft
Hydrocarbon Thickness: 0 ft
Visual Confirmation/Description:
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: gal
Amt Removed from Well: gal
Product Transferred to:

Start Time (purge): 1420 Weather Conditions: Rain
Sample Time/Date: 1435 3/1/04 Water Color: Clear Odor: yes
Purging Flow Rate: 1.5+ gpm. Sediment Description:
Did well de-water? no If yes, Time: Volume: gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (°F)	D.O. (mg/L)	ORP (mV)
1422	3.0	7.47	545	16.0		
1424	6.0	7.56	537	14.2		
1426	9.5	7.15	548	17.3		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
C-7	6 x voa vial	YES	HCL	LANCASTER	BTEX+MTBE(8260)

COMMENTS:
New Total Well Depth

Add/Replaced Lock: Add/Replaced Plug: Size:

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/Facility #: ChevronTexaco #9-1924 Job Number: 386448
Site Address: 4904 Southfront Road Event Date: 3/1/04 (inclusive)
City: Livermore, CA Sampler: K. Kelly

Well ID C-9 Date Monitored: 3/1/04 Well Condition: OK
Well Diameter 2 (3) in.
Total Depth 23.06 ft.
Depth to Water 11.32 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

11.74 xVF 0.38 = 4.46 x3 (case volume) = Estimated Purge Volume: 13.38 gal.

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

Sampling Equipment:
Disposable Bailer ✓
Pressure Bailer
Discrete Bailer
Other:

Time Started: (2400 hrs)
Time Bailed: (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
Product Transferred to:

Start Time (purge): 1334 Weather Conditions: Rain
Sample Time/Date: 1345 3/1/04 Water Color: Clear Odor: no
Purging Flow Rate: 2.5 gpm. Sediment Description:
Did well de-water? no If yes, Time: Volume: gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (°F)	D.O. (mg/L)	ORP (mV)
1334	4.5	7.25	473	15.3		
1338	9.0	7.15	490	16.5		
1340	13.5	7.13	498	16.8		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
C-9	6 x voa vial	YES	HCL	LANCASTER	BTEX+MTBE(8260)

COMMENTS:

New Total Well Depth

Add/Replaced Lock: ✓ Add/Replaced Plug: Size:

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/Facility #: ChevronTexaco #9-1924 Job Number: 386448
Site Address: 4904 Southfront Road Event Date: 3/1/04 (inclusive)
City: Livermore, CA Sampler: K. Kelly

Well ID C-11 Date Monitored: 3/1/04 Well Condition: ok
Well Diameter 2 1 (3) in.
Total Depth 19.38 ft.
Depth to Water 12.75 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

6.63 xVF 0.38 = 2.51 x3 (case volume) = Estimated Purge Volume: 7.55 gal.

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

Sampling Equipment:
Disposable Bailer ✓
Pressure Bailer
Discrete Bailer
Other:

Time Started: (2400 hrs)
Time Bailed: (2400 hrs)
Depth to Product: ft
Depth to Water: ft
Hydrocarbon Thickness: 0 ft
Visual Confirmation/Description:
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: gal
Amt Removed from Well: gal
Product Transferred to:

Start Time (purge): 1456 Weather Conditions: Rain
Sample Time/Date: 1510 3/1/04 Water Color: Light Cloudy Odor: no
Purging Flow Rate: 2.5 gpm. Sediment Description:
Did well de-water? no If yes, Time: Volume: gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (u mhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
1458	2.5	7.71	696	13.1		
1500	5.0	7.28	711	12.0		
1501	7.5	7.38	737	13.7		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
C-11	6 x voa vial	YES	HCL	LANCASTER	BTEX+MTBE(8260)

COMMENTS:

New Total Well Depth

Add/Replaced Lock: Add/Replaced Plug: Size:

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ChevronTexaco #9-1924 Job Number: 386448
Site Address: 4904 Southfront Road Event Date: 3/1/04 (inclusive)
City: Livermore, CA Sampler: K. Kelly

Well ID C-12 Date Monitored: 3/1/04 Well Condition: OK
Well Diameter 2 1(3) in.
Total Depth 18.43 ft.
Depth to Water 13.68 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

4.75 xVF 0.38 = 1.80 x3 (case volume) = Estimated Purge Volume: 5.41 gal.

Purge Equipment:
Disposable Bailer
Stainless Steel Bailer
Stack Pump
Suction Pump
Grundfos
Other:

Sampling Equipment:
Disposable Bailer ✓
Pressure Bailer
Discrete Bailer
Other:

Time Started: (2400 hrs)
Time Bailed: (2400 hrs)
Depth to Product: ft
Depth to Water: ft
Hydrocarbon Thickness: 0 ft
Visual Confirmation/Description:
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: gal
Amt Removed from Well: gal
Product Transferred to:

Start Time (purge): 1306 Weather Conditions: Rain
Sample Time/Date: 1320 3/1/04 Water Color: Cloudy Odor: NO
Purging Flow Rate: gpm. Sediment Description:
Did well de-water? NO If yes, Time: Volume: gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (°F)	D.O. (mg/L)	ORP (mV)
1309	2.0	7.64	565	16.8		
1312	4.0	7.23	574	16.5		
1315	5.5	7.35	557	14.8		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
C-12	6 x voa vial	YES	HCL	LANCASTER	BTEX+MTBE(8260)

COMMENTS: C-12 missing Gasket well fills with water 12" MORRISON DUBUQUE well box (12 FIG 415XA)
New Total Well Depth

Add/Replaced Lock: ✓ Add/Replaced Plug: Size:

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/Facility #: ChevronTexaco #9-1924 Job Number: 386448
Site Address: 4904 Southfront Road Event Date: 3/1/04 (inclusive)
City: Livermore, CA Sampler: K. Kelly

Well ID C-13 Date Monitored: 3/1/04 Well Condition: OK
Well Diameter 2 1(3) in.
Total Depth 21.35 ft.
Depth to Water 13.09 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

8.26 xVF 0.38 = 3.13 x3 (case volume) = Estimated Purge Volume: 9.4 gal.

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

Sampling Equipment:
Disposable Bailer ✓
Pressure Bailer
Discrete Bailer
Other:

Time Started: (2400 hrs)
Time Bailed: (2400 hrs)
Depth to Product: ft
Depth to Water: ft
Hydrocarbon Thickness: 0 ft
Visual Confirmation/Description:
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: gal
Amt Removed from Well: gal
Product Transferred to:

Start Time (purge): 1355 Weather Conditions: Rain
Sample Time/Date: 1410 3/1/04 Water Color: Clear Odor: no
Purging Flow Rate: 1.5+ gpm. Sediment Description:
Did well de-water? no If yes, Time: Volume: gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (°F)	D.O. (mg/L)	ORP (mV)
1357	3.0	7.51	897	16.5		
1359	6.0	7.17	903	17.1		
1401	9.5	7.22	933	17.6		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
C-13	6 x voa vial	YES	HCL	LANCASTER	BTEX+MTBE(8260)

COMMENTS:

New Total Well Depth

Add/Replaced Lock: ✓ Add/Replaced Plug: Size:

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ChevronTexaco #9-1924 Job Number: 386448
Site Address: 4904 Southfront Road Event Date: 3/1/04 (inclusive)
City: Livermore, CA Sampler: K. Kelly

Well ID C-20 Date Monitored: 3/1/04 Well Condition: See Picture
Well Diameter (2) 3 in.
Total Depth 24.03 ft.
Depth to Water 13.53 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

10.50 xVF 0.17 = 1.78 x3 (case volume) = Estimated Purge Volume: 5.35 gal.

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

Sampling Equipment:
Disposable Bailer ✓
Pressure Bailer
Discrete Bailer
Other:

Time Started: (2400 hrs)
Time Bailed: (2400 hrs)
Depth to Product: ft
Depth to Water: ft
Hydrocarbon Thickness: 0 ft
Visual Confirmation/Description:
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: gal
Amt Removed from Well: gal
Product Transferred to:

Start Time (purge): 1238 Weather Conditions: Rain
Sample Time/Date: 1250 3/1/04 Water Color: Cloudy Odor: no
Purging Flow Rate: gpm. Sediment Description:
Did well de-water? no If yes, Time: Volume: gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (°F)	D.O. (mg/L)	ORP (mV)
1241	1.75	7.40	561	16.8		
1244	3.5	7.26	544	16.5		
1247	5.25	7.28	563	16.0		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
C-20	6 x voa vial	YES	HCL	LANCASTER	BTEX+MTBE(8260)

COMMENTS: Well Needs to Be Raised Missing a Gasket and the Well Box fills with Water. BOART LONGYEAR Well Box 8" New Total Well Depth

Add/Replaced Lock: Add/Replaced Plug: Size:

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ChevronTexaco #9-1924 Job Number: 386448
Site Address: 4904 Southfront Road Event Date: 3/1/04 (inclusive)
City: Livermore, CA Sampler: K. Kelly

Well ID C-21 Date Monitored: 3/1/04 Well Condition: OK
Well Diameter (2) 3 in.
Total Depth 25.03 ft.
Depth to Water 12.68 ft.
12.35 xVF 0.17 = 2.09 x3 (case volume) = Estimated Purge Volume: 6.29 gal.

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

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

Sampling Equipment:
Disposable Bailer ✓
Pressure Bailer
Discrete Bailer
Other:

Time Started: (2400 hrs)
Time Bailed: (2400 hrs)
Depth to Product: ft
Depth to Water: ft
Hydrocarbon Thickness: 0 ft
Visual Confirmation/Description:
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: gal
Amt Removed from Well: gal
Product Transferred to:

Start Time (purge): 1211 Weather Conditions: Rain
Sample Time/Date: 1225 3/1/04 Water Color: Cloudy Odor: no
Purging Flow Rate: gpm. Sediment Description:
Did well de-water? no If yes, Time: Volume: gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (°F)	D.O. (mg/L)	ORP (mV)
1214	2.0	7.18	803	16.3		
1217	4.0	7.25	612	15.5		
1221	6.0	7.36	577	17.		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
C-21	6 x voa vial	YES	HCL	LANCASTER	BTEX+MTBE(8260)

COMMENTS:
New Total Well Depth
Add/Replaced Lock: ✓ Add/Replaced Plug: Size:

Chevron California Region Analysis Request/Chain of Custody

Lancaster Laboratories
Where quality is a science.

030204-02

Acct. #: 10904

For Lancaster Laboratories use only
Sample #: 4226665-72
SCR#:
Grp#886784

Cambria MTI Project #: 61D-1961

Facility #: SS#9-1924 G-R#386448 Global ID#T0600100341
Site Address: 4904 SOUTHFRONT ROAD, LIVERMORE, CA
Chevron PM: Mgmt. Transfer Initiative Lead Consultant: CAMBRIA
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: Kristina Kelly
Service Order #: ☐ Non SAR:

Matrix: ☐ Potable ☐ NPDES

Analyses Requested / Preservation Codes: H, H

Sample Identification	Date Collected	Time Collected	Grab	Composite	Soil	Water	Oil ☐ Air ☐	Total Number of Containers	BTEX + MTBE 8260 ☒ 8021 ☐ (H)	TPH 8015 MOD GRO (H) Per B. Heyn 12/3/03	TPH 8015 MOD DRO ☐ Silica Gel Cleanup	8260 full scan	Oxygenates	Lead 7420 ☐ 7421 ☐
QA	3-1-04					W		2	X	X				
C-4	↓	1435	X			↓		6	X	X				
C-9		1345	X					6	X	X				
C-11		1510	X					6	X	X				
C-12		1320	X					6	X	X				
C-13		1410	X					6	X	X				
C-20		1250	X					6	X	X				
C-21	↓	1225	X			↓		6	X	X				

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

Relinquished by	Date	Time	Received by	Date	Time
Kristina Kelly	3/1/04	1550	[signature]	3/1/04	1650
[signature]	3/2/04	0930	Andras Amaya	3/2/04	0930
Andras Amaya	3/2/04	1600	Airborne/DHL	3/2/04	
Relinquished by Commercial Carrier: UPS FedEx (Other) Airborne			[signature]	3/3/04	0905

Temperature Upon Receipt 2.5 C°
Custody Seals Intact? (Yes) No

Lancaster Laboratories, Inc., 2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 (717) 656-2300
Copies: White and yellow should accompany samples to Lancaster Laboratories. The pink copy should be retained by the client.

3460 Rev. 7/30/01

Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared for:

ChevronTexaco c/o Cambria
Suite 9
4111 Citrus Avenue
Rocklin CA 95677
916-630-1855

Prepared by:

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

SAMPLE GROUP

The sample group for this submittal is 886784. Samples arrived at the laboratory on Wednesday, March 03, 2004. The PO# for this group is 99011184 and the release number is MTI.

Client Description			Lancaster Labs Number
QA-T-040301	NA	Water	4226665
C-7-W-040301	Grab	Water	4226666
C-9-W-040301	Grab	Water	4226667
C-11-W-040301	Grab	Water	4226668
C-12-W-040301	Grab	Water	4226669
C-13-W-040301	Grab	Water	4226670
C-20-W-040301	Grab	Water	4226671
C-21-W-040301	Grab	Water	4226672

1 COPY TO	Cambria C/O Gettler- Ryan	Attn: Deanna L. Harding
ELECTRONIC COPY TO	Gettler-Ryan	Attn: Cheryl Hansen

Lancaster Laboratories

Analysis Report

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Questions? Contact your Client Services Representative
Teresa L Cunningham at (717) 656-2300.

Respectfully Submitted,

Robin C. Runkle
Senior Chemist

Lancaster Laboratories

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Analysis Report

Lancaster Laboratories Sample No. WW 4226665

QA-T-040301 NA Water
Facility# 91924 Job# 386448 MTI# 61D-1961 GRD
4904 Southfront Livermore T0600100341 QA
Collected:03/01/2004

Account Number: 10904

Submitted: 03/03/2004 09:00
Reported: 03/12/2004 at 13:18
Discard: 04/12/2004

ChevronTexaco c/o Cambria
Suite 9
4111 Citrus Avenue
Rocklin CA 95677

SFROQ

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
06054	BTEX+MTBE by 8260B					
02010	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	ug/l	1
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5	ug/l	1

State of California Lab Certification No. 2116

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
06054	BTEX+MTBE by 8260B	SW-846 8260B	1	03/10/2004 09:54	Carrie J McCullough	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	03/10/2004 09:54	Carrie J McCullough	n.a.

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Analysis Report

Lancaster Laboratories Sample No. WW 4226666

C-7-W-040301 Grab Water
Facility# 91924 Job# 386448 MTI# 61D-1961 GRD
4904 Southfront Livermore T0600100341 C-7
Collected: 03/01/2004 14:35 by KK

Account Number: 10904

Submitted: 03/03/2004 09:00
Reported: 03/12/2004 at 13:18
Discard: 04/12/2004

ChevronTexaco c/o Cambria
Suite 9
4111 Citrus Avenue
Rocklin CA 95677

SFRO7

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
06054	BTEX+MTBE by 8260B					
02010	Methyl Tertiary Butyl Ether	1634-04-4	15.	0.5	ug/l	1
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	0.7	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5	ug/l	1

State of California Lab Certification No. 2116

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
06054	BTEX+MTBE by 8260B	SW-846 8260B	1	03/10/2004 10:21	Carrie J McCullough	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	03/10/2004 10:21	Carrie J McCullough	n.a.

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Analysis Report

Lancaster Laboratories Sample No. WW 4226667

C-9-W-040301 Grab Water
Facility# 91924 Job# 386448 MTI# 61D-1961 GRD
4904 Southfront Livermore T0600100341 C-9
Collected:03/01/2004 13:45 by KK

Account Number: 10904

Submitted: 03/03/2004 09:00
Reported: 03/12/2004 at 13:18
Discard: 04/12/2004

ChevronTexaco c/o Cambria
Suite 9
4111 Citrus Avenue
Rocklin CA 95677

SFRO9

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
06054	BTEX+MTBE by 8260B					
02010	Methyl Tertiary Butyl Ether	1634-04-4	10.	0.5	ug/l	1
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5	ug/l	1

State of California Lab Certification No. 2116

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
06054	BTEX+MTBE by 8260B	SW-846 8260B	1	03/10/2004 11:40	Carrie J McCullough	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	03/10/2004 11:40	Carrie J McCullough	n.a.

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Analysis Report

Lancaster Laboratories Sample No. WW 4226668

C-11-W-040301 Grab Water
Facility# 91924 Job# 386448 MTI# 61D-1961 GRD
4904 Southfront Livermore T0600100341 C-11
Collected:03/01/2004 15:10 by KK

Account Number: 10904

Submitted: 03/03/2004 09:00
Reported: 03/12/2004 at 13:18
Discard: 04/12/2004

ChevronTexaco c/o Cambria
Suite 9
4111 Citrus Avenue
Rocklin CA 95677

SFR11

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
06054	BTEX+MTBE by 8260B					
02010	Methyl Tertiary Butyl Ether	1634-04-4	9.	0.5	ug/l	1
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5	ug/l	1

State of California Lab Certification No. 2116

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
06054	BTEX+MTBE by 8260B	SW-846 8260B	1	03/10/2004 12:07	Carrie J McCullough	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	03/10/2004 12:07	Carrie J McCullough	n.a.

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Analysis Report

Lancaster Laboratories Sample No. WW 4226669

C-12-W-040301 Grab Water
Facility# 91924 Job# 386448 MTI# 61D-1961 GRD
4904 Southfront Livermore T0600100341 C-12
Collected: 03/01/2004 13:20 by KK

Account Number: 10904

Submitted: 03/03/2004 09:00
Reported: 03/12/2004 at 13:18
Discard: 04/12/2004

ChevronTexaco c/o Cambria
Suite 9
4111 Citrus Avenue
Rocklin CA 95677

SFR12

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
06054	BTEX+MTBE by 8260B					
02010	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	ug/l	1
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5	ug/l	1

State of California Lab Certification No. 2116

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
06054	BTEX+MTBE by 8260B	SW-846 8260B	1	03/10/2004 12:34	Carrie J McCullough	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	03/10/2004 12:34	Carrie J McCullough	n.a.

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Analysis Report

Lancaster Laboratories Sample No. WW 4226670

C-13-W-040301 Grab Water
Facility# 91924 Job# 386448 MTI# 61D-1961 GRD
4904 Southfront Livermore T0600100341 C-13
Collected:03/01/2004 14:10 by KK

Account Number: 10904

Submitted: 03/03/2004 09:00
Reported: 03/12/2004 at 13:18
Discard: 04/12/2004

ChevronTexaco c/o Cambria
Suite 9
4111 Citrus Avenue
Rocklin CA 95677

SFR13

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
06054	BTEX+MTBE by 8260B					
02010	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	ug/l	1
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5	ug/l	1

State of California Lab Certification No. 2116

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
06054	BTEX+MTBE by 8260B	SW-846 8260B	1	03/10/2004 13:00	Carrie J McCullough	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	03/10/2004 13:00	Carrie J McCullough	n.a.

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Analysis Report

Lancaster Laboratories Sample No. WW 4226671

C-20-W-040301 Grab Water
Facility# 91924 Job# 386448 MTI# 61D-1961 GRD
4904 Southfront Livermore T0600100341 C-20
Collected:03/01/2004 12:50 by KK

Account Number: 10904

Submitted: 03/03/2004 09:00
Reported: 03/12/2004 at 13:18
Discard: 04/12/2004

ChevronTexaco c/o Cambria
Suite 9
4111 Citrus Avenue
Rocklin CA 95677

SFR20

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
06054	BTEX+MTBE by 8260B					
02010	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	ug/l	1
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5	ug/l	1

State of California Lab Certification No. 2116

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
06054	BTEX+MTBE by 8260B	SW-846 8260B	1	03/10/2004 13:27	Carrie J McCullough	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	03/10/2004 13:27	Carrie J McCullough	n.a.

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Analysis Report

Lancaster Laboratories Sample No. WW 4226672

C-21-W-040301 Grab Water
Facility# 91924 Job# 386448 MTI# 61D-1961 GRD
4904 Southfront Livermore T0600100341 C-21
Collected:03/01/2004 12:25 by KK

Account Number: 10904

Submitted: 03/03/2004 09:00
Reported: 03/12/2004 at 13:18
Discard: 04/12/2004

ChevronTexaco c/o Cambria
Suite 9
4111 Citrus Avenue
Rocklin CA 95677

SFR21

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
06054	BTEX+MTBE by 8260B					
02010	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	ug/l	1
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5	ug/l	1

State of California Lab Certification No. 2116

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
06054	BTEX+MTBE by 8260B	SW-846 8260B	1	03/10/2004 13:53	Carrie J McCullough	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	03/10/2004 13:53	Carrie J McCullough	n.a.

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Analysis Report

Quality Control Summary

Client Name: ChevronTexaco c/o Cambria
Reported: 03/12/04 at 01:18 PM

Group Number: 886784

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: P040702AA	Sample number(s): 4226665-4226672							
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	101		77-127		
Benzene	N.D.	0.5	ug/l	104		85-117		
Toluene	N.D.	0.5	ug/l	98		85-115		
Ethylbenzene	N.D.	0.5	ug/l	98		82-119		
Xylene (Total)	N.D.	0.5	ug/l	99		84-120		

Sample Matrix Quality Control

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: P040702AA	Sample number(s): 4226665-4226672								
Methyl Tertiary Butyl Ether	108	103	69-134	3	30				
Benzene	113	111	83-128	2	30				
Toluene	108	105	83-127	2	30				
Ethylbenzene	107	106	82-129	2	30				
Xylene (Total)	109	106	82-130	2	30				

Surrogate Quality Control

Analysis Name: BTEX+MTBE by 8260B
Batch number: P040702AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
4226665	101	98	94	95
4226666	102	99	95	108
4226667	101	99	95	102
4226668	102	100	93	96
4226669	101	100	93	96
4226670	102	100	95	96
4226671	101	99	94	95
4226672	101	99	93	95
Blank	101	99	94	95
LCS	101	98	95	95
MS	102	97	96	108
MSD	102	98	95	107
Limits:	81-120	82-112	85-112	83-113

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

Quality Control Summary

Client Name: ChevronTexaco c/o Cambria
Group Number: 886784
Reported: 03/12/04 at 01:18 PM

Surrogate Quality Control

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

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

Explanation of Symbols and Abbreviations

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

N.D.	none detected	**BMQL**	Below Minimum Quantitation Level
TNTC	Too Numerous To Count	**MPN**	Most Probable Number
IU	International Units	**CP Units**	cobalt-chloroplatinate units
umhos/cm	micromhos/cm	**NTU**	nephelometric turbidity units
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 falls within the Method Detection Limit (MDL) and 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 for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

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

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

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CAMBRIA

ATTACHMENT C

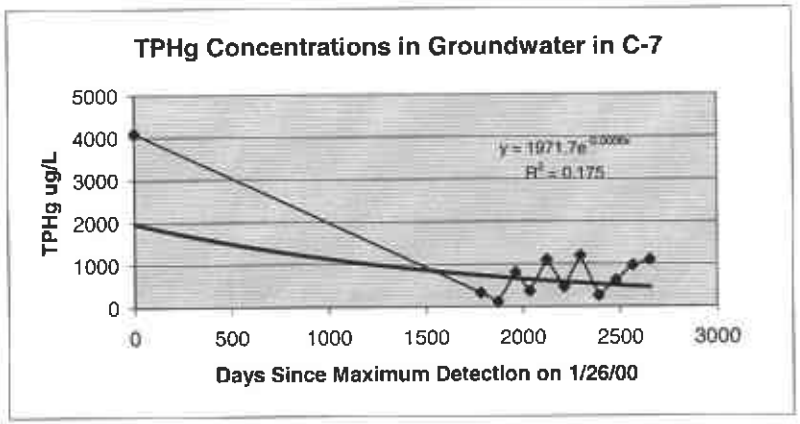
Degradation Estimates

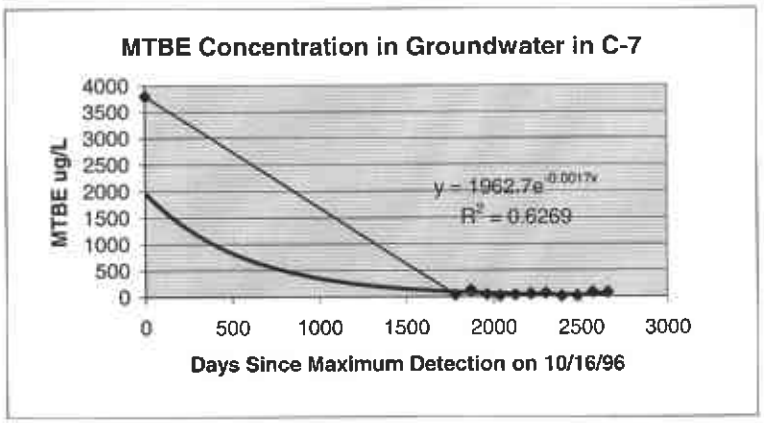
Concentration Trend Analysis Data for Well C-7, Former Chevron Service Station 9-1924, 4904 Southfront Road, Livermore, California

Raw Data

DATE	TPHg *(ug/L)*	Benzene *(ug/L)*	MTBE *(ug/L)*	GWE *(msl)*
10/16/1996	4100	40	3800	508.3
3/23/2001	329	0.25	38	508.5
9/28/2001	110	308	130	508.17
12/28/2001	800	301	42	509.18
3/29/2002	360	0.73	12	508.65
6/13/2002	1100	2.1	35	508.01
9/10/2002	460	0.25	52	508.11
12/9/2002	1200	3.1	70	508.04
3/4/2003	260	0.25	11	508.54
6/6/2003	610	0.25	20	507.8
9/4/2003	970	1	86	507.25
12/3/2003	1100	0.5	77	507.4
3/1/2004		0.25	15	508.71

Days Since Peak Concentrations 10/16/96	TPHg (ug/L)	MTBE (ug/L)
0	4100	3800
1782	329	38
1872	110	130
1963	800	42
2037	360	12
2124	1100	35
2213	460	52
2298	1200	70
2390	260	11
2478	610	20
2567	970	86
2655	1100	77
		15





Predicted Time to Cleanup of TPHg in Well C-7, Former Chevron Station 9-1924, 4904 Southfront Road, Livermore, California

Calculate "time to cleanup" given the first-order decay equation:

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

Given

Water Quality Objective:	y	100 ug/L
Constant:	b	1971.7
Constant:	a	-0.0006
Date of first sample:		10/16/1996

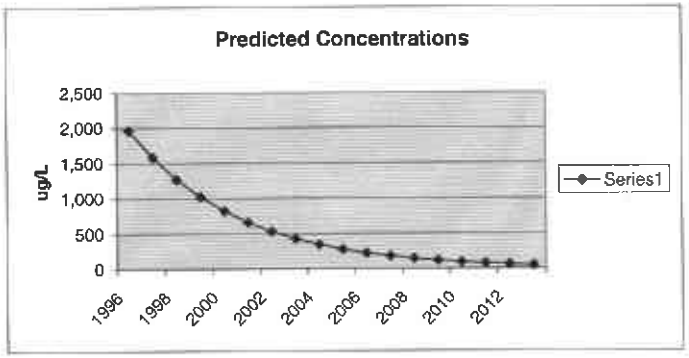
$y = 1971.7\,e^{-0.0006x}$ ===> $x = \ln(y/1971.7) / -0.0006$

Calculate

Days from first sample:	x	4,969 Days
Years from first sample:		13.6 Years
Estimated date of cleanup:		May-2010

Calculated Half Life = -ln(2)/a

1,155	Days
3.17	years



Concentration Trend Prediction

Date	Days from First Sample	Predicted Concentration (ug/l)
10/16/1996	0	1,972
10/16/1997	365	1,584
10/16/1998	730	1,272
10/16/1999	1,095	1,022
10/16/2000	1,461	821
10/16/2001	1,826	659
10/16/2002	2,191	530
10/16/2003	2,556	425
10/15/2004	2,921	342
10/15/2005	3,286	275
10/15/2006	3,651	221
10/15/2007	4,016	177
10/14/2008	4,381	142
10/14/2009	4,746	114
10/14/2010	5,111	92
10/14/2011	5,476	74
10/13/2012	5,841	59
10/13/2013	6,206	48

Predicted Time to Cleanup of MTBE in Well C-7, Former Chevron Station 9-1924, 4904 Southfront Road, Livermore, California

Calculate "time to cleanup" given the first-order decay equation:

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

Given

Water Quality Objective:	y	5	ug/L
Constant:	b	1962.7	
Constant:	a	-0.0017	
Date of first sample:		10/16/1996	

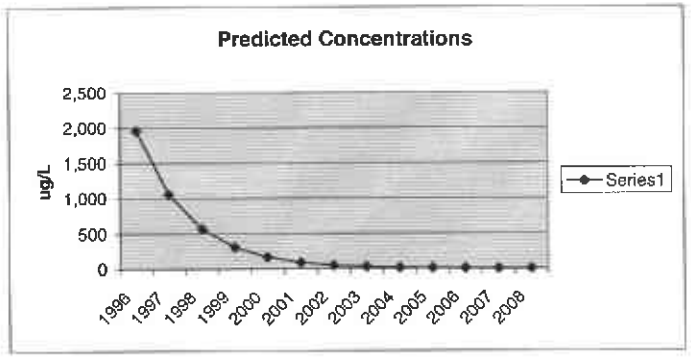
$y = 1962.7\,e^{-0.0017x}$ ===> $x = \ln(y/1962.7) / -0.0017$

Calculate

Days from first sample:	x	3,513	Days
Years from first sample:		9.6	Years
Estimated date of cleanup:		May-2006	

Calculated Half Life = -ln(2)/a

408	Days
1.12	years



Concentration Trend Prediction

Date	Days from First Sample	Predicted Concentration (ug/l)
10/16/1996	0	1,963
10/16/1997	365	1,055
10/16/1998	730	567
10/16/1999	1,095	305
10/16/2000	1,461	164
10/16/2001	1,826	88
10/16/2002	2,191	47
10/16/2003	2,556	25
10/15/2004	2,921	14
10/15/2005	3,286	7
10/15/2006	3,651	4
10/15/2007	4,016	2
10/14/2008	4,381	1

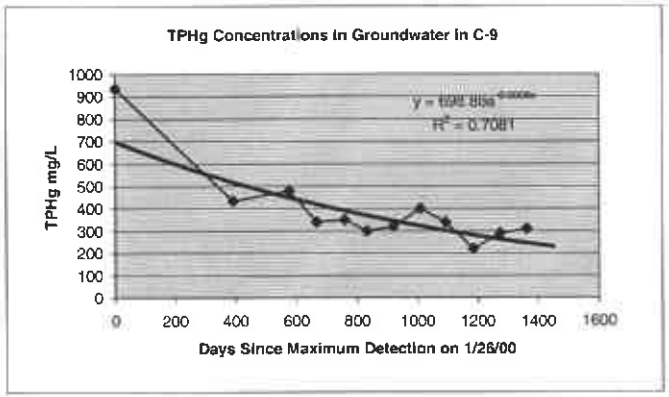
Concentration Trend Analysis Data for Well C-9, Former Chevron Service Station 9-1924, 4904 Southfront Road, Livermore, California

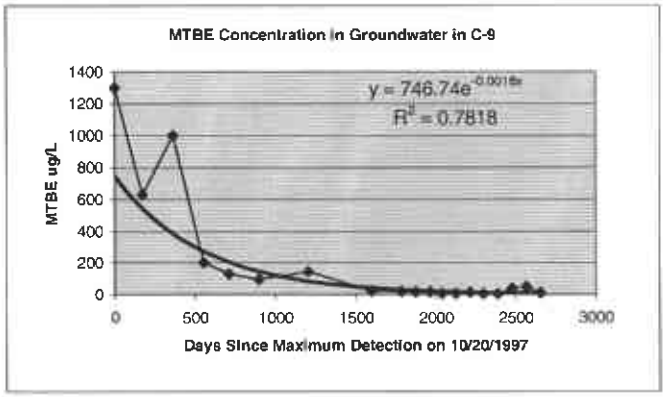
Raw Data

DATE	TPHg (ug/L)	Benzene (ug/L)	MTBE (ug/L)	GWE (msl)
10/16/1996	220	13	1300	508.42
4/10/1997	680	0.25	630	508.52
10/20/1997	650	11	1000	508.28
4/30/1998	880	4.4	200	509.11
10/7/1998	25	0.68	130	508.87
4/14/1999	534	3.28	94.4	508.89
2/21/2000	937	0.25	144	508.82
3/23/2001	434	0.25	22	508.44
9/28/2001	480	0.92	21	508.14
12/26/2001	340	1	17	509.01
3/29/2002	350	0.67	16	508.55
6/13/2002	300	0.5	5.9	507.93
9/10/2002	320	0.25	6.8	508.2
12/9/2002	400	0.25	15	507.99
3/4/2003	340	0.85	5	508.33
6/6/2003	220	0.25	4	507.42
9/4/2003	290	0.25	39	506.92
12/3/2003	310	0.25	49	507.03
3/1/2004		0.25	10	508.32

Days Since Peak Concentrations 02/21/00	TPHg (ug/L)
0	937
392	434
577	480
667	340
758	350
832	300
919	320
1008	400
1093	340
1185	220
1273	290
1362	310
1450	

Days Since Peak Concentrations 10/16/1996	MTBE (ug/L)
0	1300
174	630
364	1000
554	200
711	130
898	94.4
1205	144
1597	22
1782	21
1872	17
1963	16
2037	5.9
2124	6.8
2213	15
2298	5
2390	4
2478	39
2567	49
2655	10





Predicted Time to Cleanup of TPHg in Well C-9, Former Chevron Station 9-1924, 4904 Southfront Road, Livermore, California

Calculate "time to cleanup" given the first-order decay equation:

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

Given

Water Quality Objective:	y	100 ug/L
Constant:	b	698.88
Constant:	a	-0.0008
Date of first sample:		2/21/2000

$y = 698.88 e^{-0.0008x}$ ===> $x = \ln(y/698.88) / -0.0008$

Calculate

Days from first sample:	x	2,430 Days
Years from first sample:		6.7 Years
Estimated date of cleanup:		Oct-2006

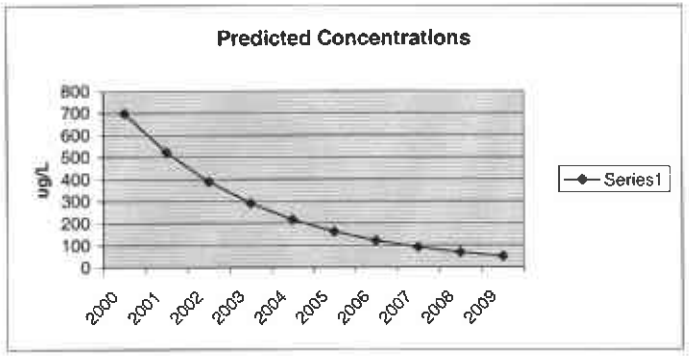
Calculated Half Life = -ln(2)/a

866 Days

2.37 years

Concentration Trend Prediction

Date	Days from First Sample	Predicted Concentration (ug/l)
2/21/2000	0	699
2/20/2001	365	522
2/20/2002	730	390
2/20/2003	1,095	291
2/21/2004	1,461	217
2/20/2005	1,826	162
2/20/2006	2,191	121
2/20/2007	2,556	90
2/20/2008	2,921	68
2/19/2009	3,286	50



Predicted Time to Cleanup of MTBE in Well C-9, Former Chevron Station 9-1924, 4904 Southfront Road, Livermore, California

Calculate "time to cleanup" given the first-order decay equation:

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

Given

Water Quality Objective:	y	5 ug/L
Constant:	b	746.74
Constant:	a	-0.0018
Date of first sample:		10/16/1996

$y = 746.74\,e^{-0.0018x}$ ===> $x = \ln(y/746.74) / -0.0018$

Calculate

Days from first sample:	x	2,781 Days
Years from first sample:		7.6 Years
Estimated date of cleanup:		May-2004

Calculated Half Life = -ln(2)/a

385 Days

1.06 years

Concentration Trend Prediction

Date	Days from First Sample	Predicted Concentration (ug/l)
10/16/1996	0	747
10/16/1997	365	387
10/16/1998	730	201
10/16/1999	1,095	104
10/16/2000	1,461	54
10/16/2001	1,826	28
10/16/2002	2,191	14
10/16/2003	2,556	8
10/15/2004	2,921	4
10/15/2005	3,286	2