

ALAMEDA COUNTY
HEALTH CARE SERVICES



AGENCY
DAVID J. KEARS, Agency Director

ENVIRONMENTAL HEALTH SERVICES

ENVIRONMENTAL PROTECTION
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
(510) 567-6700
FAX (510) 337-9335

December 21, 2007

Stacie Hartung-Frerichs
Chevron Environmental Management Company
6001 Bollinger Canyon Road
P.O. Box 6012, Room K2204
San Ramon, CA 94583-2324

Milton and Violet Price Trust
C/o Jeanne R. Price
225 Bush Street
San Francisco, CA 94104-4215

Subject: Fuel Leak Case No. RO0000477 and Geotracker Global ID T0600100341, Chevron #9-1924, 4904 Southfront Road, Livermore, CA 94550

Dear Stacie Hartung-Frerichs and Jeanne Price:

This letter transmits the enclosed underground storage tank (UST) case closure letter in accordance with Chapter 6.75 (Article 4, Section 25299.37[h]). The State Water Resources Control Board adopted this letter on February 20, 1997. As of March 1, 1997, the Alameda County Environmental Health (ACEH) is required to use this case closure letter for all UST leak sites. We are also transmitting to you the enclosed case closure summary. These documents confirm the completion of the investigation and cleanup of the reported release at the subject site. The subject fuel leak case is closed.

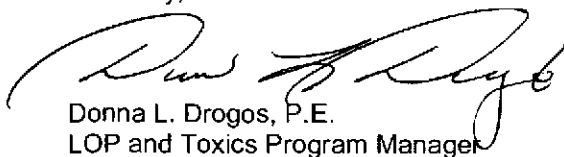
SITE INVESTIGATION AND CLEANUP SUMMARY

Please be advised that the following conditions exist at the site:

- Lead remains in soil at concentrations up to 79 ppm.
- Total petroleum hydrocarbons as gasoline remain in shallow groundwater at concentrations up to 580 ppb.
- MTBE remains in shallow groundwater at concentrations up to 27 ppb.

If you have any questions, please call Jerry Wickham at (510) 567-6791. Thank you.

Sincerely,



Donna L. Drogos, P.E.
LOP and Toxics Program Manager

Enclosures:

1. Remedial Action Completion Certificate
2. Case Closure Summary

cc:

Ms. Cherie McCaulou (w/enc)
SF- Regional Water Quality Control Board
1515 Clay Street, Suite 1400
Oakland, CA 94612

Mr. Toru Okamoto (w/enc)
State Water Resources Control Board
UST Cleanup Fund
P.O. Box 944212
Sacramento, CA 94244-2120

Ms. Danielle Stefani (w/enc)
Livermore-Pleasanton Fire Department
3560 Nevada Street
Pleasanton, CA 94566

Ms. Cheryl Dizon, QIC 80201 (w/enc)
Zone 7 Water Agency
100 North Canyons Parkway
Livermore, CA 94551

City of Livermore Planning Department (w/enc)
1052 South Livermore Avenue
Livermore, CA 94550

Mr. Brian Carey (w/enc)
Conestoga-Rover & Associates
2000 Opportunity Drive, Suite 110
Roseville, CA 95678

Jerry Wickham (w/orig enc), D. Drogos (w/enc), File (w/enc)



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REMEDIAL ACTION COMPLETION CERTIFICATE

Dear Stacie Hartung-Frerichs and Jeanne Price:

Subject: Fuel Leak Case No. RO0000477 and Geotracker Global ID T0600100341, Chevron #9-1924, 4904 Southfront Road, Livermore, CA 94550

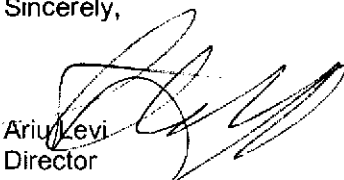
This letter confirms the completion of a site investigation and remedial action for the underground storage tanks formerly located at the above-described location. Thank you for your cooperation throughout this investigation. Your willingness and promptness in responding to our inquiries concerning the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

Based on information in the above-referenced file and with the provision that the information provided to this agency was accurate and representative of site conditions, this agency finds that the site investigation and corrective action carried out at your underground storage tank(s) site is in compliance with the requirements of subdivisions (a) and (b) of Section 25299.37 of the Health and Safety Code and with corrective action regulations adopted pursuant to Section 25299.77 of the Health and Safety Code and that no further action related to the petroleum release(s) at the site is required.

This notice is issued pursuant to subdivision (h) of Section 25299.37 of the Health and Safety Code.

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

Sincerely,


Ariu Levi
Director
Alameda County Environmental Health

**CASE CLOSURE SUMMARY
LEAKING UNDERGROUND FUEL STORAGE TANK - LOCAL OVERSIGHT PROGRAM**

I. AGENCY INFORMATION

Date: September 28, 2006

Agency Name: Alameda County Environmental Health	Address: 1131 Harbor Bay Parkway
City/State/Zip: Alameda, CA 94502-6577	Phone: (510) 567-6791
Responsible Staff Person: Jerry Wickham	Title: Hazardous Materials Specialist

II. CASE INFORMATION

Site Facility Name: Chevron #9-1924		
Site Facility Address: 4904 Southfront Road, Livermore, CA 94550		
RB Case No.: 01-0372	Local Case No.: 2335	LOP Case No.: RO0000477
URF Filing Date: April 4, 1996	Geotracker ID: T0600100341	APN: 99-40-13-34
Responsible Parties	Addresses	Phone Numbers
Dana R. Thurman, Chevron Environmental Management Company	6001 Bollinger Canyon Road, Bldg. K, Room 2236, P.O. Box 6012, San Ramon, CA 94583-2324	925-842-0059
Milton and Violet Price	P.O. Box 7611, San Francisco, CA 94120	

Tank I.D. No	Size in Gallons	Contents	Closed In Place/Removed?	Date
1 and 2	10,000 gallons	Gasoline	Removed	03/1985
3	5,000 gallons	Gasoline	Removed	03/1985
4	1,000-gallons	Waste oil	Removed	04/2000
	Piping		Replaced	03/1985, 06/1997, and 04/2000

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and Type of Release: One 10,000-gallon gasoline UST was reported leaking in December 1984.	
Site characterization complete? Yes	Date Approved By Oversight Agency: ----

Monitoring wells installed? Yes	Number: 21	Proper screened interval? Yes
Highest GW Depth Below Ground Surface: 9	Lowest Depth: 17	Flow Direction: West to southwest
Most Sensitive Current Use: Drinking water source.		

<p>Summary of Production Wells in Vicinity: No water supply wells are within 2,000 feet of the site. The nearest well is a PG&E well located approximately 1,950 feet (upgradient) east of the site and is not a receptor due its upgradient location. Three domestic water supply wells are located approximately 2,050 to 2,200 feet west of the site. Total depth of the wells ranges from 192 to 335 feet. These water supply wells extract water from lower water-bearing zones than the zone of shallow groundwater contamination at the site and do not appear to be receptors for the site. Based on review of subsurface information from the three wells and the site, the potential for downward migration of fuel hydrocarbons from the site to the lower water-bearing zones appears to be low.</p>	
Are drinking water wells affected? No	Aquifer Name: Northwest boundary of Mocho I Subbasin of Livermore-Amador Groundwater Basin
Is surface water affected? No	Nearest SW Name: Arroyo Las Positas is approximately 300 feet south of site.
Off-Site Beneficial Use Impacts (Addresses/Locations): None	
Reports on file? Yes	Where are reports filed? Alameda County Environmental Health and Livermore-Pleasanton Fire Department

TREATMENT AND DISPOSAL OF AFFECTED MATERIAL			
Material	Amount (Include Units)	Action (Treatment or Disposal w/Destination)	Date
Tank	2 - 10,000 gallon fuel 1 - 5,000 gallon fuel 1 - 1,000 gallon waste oil	No information available from 1985 fuel tank removals. The 1,000 gallon waste oil tank was transported to Ecology Control Industries in Richmond, CA for disposal	03/1985 fuel tanks 4/2000 waste oil tank
Piping	Not reported	Not reported	03/1985, 06/1997, and 04/2000
Free Product	296 gallons	Not reported	02/1985 to 04/1986
Soil	80 cubic yards 30 cubic yards	Transported to BFI Landfill in Livermore, CA. Transported to Republic Services Landfill in Livermore, CA.	06/1997 04/2000
Groundwater	1,070,999 gallons	Groundwater was treated by a carbon filter and air stripping unit and then discharged to a storm drain.	02/1985 to 04/1986 and 03/1990 to 01/1991

**MAXIMUM DOCUMENTED CONTAMINANT CONCENTRATIONS No information available from tank removals IONS
BEFORE AND AFTER CLEANUP**

(Please see Attachments 1 through 7 for additional information on contaminant locations and concentrations)

Contaminant	Soil (ppm)		Water (ppb)	
	Before	After	Before	After
TPH (Gas)	3.6	3.6	1,200,000	580(1)
TPH (Diesel)	310	1.5	NA	NA
Oil and Grease	210	NA	12	12
Benzene	0.005	0.005	14,000	<0.5(1)
Toluene	0.021	0.021	25,000	<0.5(1)
Ethylbenzene	0.079	0.079	3,400	<0.5(1)
Xylenes	0.19	0.19	26,000	<0.5(1)
Heavy Metals	79(2)	79(2)	330(3)	330(3)
MTBE and oxygenates	2.2(4)	0.57(5)	700,000(6)	27(7)
Other (8240/8270)	0.71(8)	0.71(8)	2.4(9)	2.4(9)

- (1) Maximum groundwater concentration after cleanup is from the most recent December 29, 2005 sampling event.
- (2) Total lead; cadmium <0.5 ppm; chromium = 47 ppm; nickel = 67 ppm; and zinc = 55 ppm.
- (3) Total lead; dissolved lead = 25 ppb; no other metals analyzed in groundwater.
- (4) MTBE = 2.2 ppm in soil sample P-4 collected beneath dispenser in June 1997. Soil was excavated to a depth of 5 feet bgs beneath the dispenser; ETBE, DIPE, and TAME < 0.005 ppm; TBA <0.05 ppm; ethanol <0.25 ppm; and EDC <0.01 ppm.
- (5) MTBE = 0.57 ppm in soil sample; ETBE, DIPE, and TAME < 0.005 ppm; TBA <0.05 ppm; ethanol <0.25 ppm; and EDC <0.01 ppm.
- (6) Detection of 700,000 ppb of MTBE in groundwater from well MW-11 on 10/07/1998 is anomalous; the next highest concentration of MTBE detected in groundwater from well MW-11 was 11,000 pp. TBA <50 ppb; DIPE <2 ppb; ETBE < 2 ppb; TAME = 27 ppb; EDB <5 ppb; and EDC = 30 ppb.
- (7) Maximum groundwater concentration after cleanup is from the most recent December 29, 2005 sampling event; no other fuel oxygenates analyzed during December 29, 2005 sampling event.
- (8) bis(2-ethylhexyl)phthalate; no other VOCs or SVOCs detected.
- (9) 1,1,1-TCA; 1,1-DCA = 1.6 ppb; and PCE = 1.0 ppb.

Site History and Description of Corrective Actions:

The site has been an active Chevron service station from 1971 to present. Surrounding land use is primarily commercial with an active service stations located west and north of the site. After detection of a leaking UST in December 1984, 18 soil borings were advanced at the site and off-site to the west and northwest. A total of 14 of the borings were converted to monitoring wells. Several of the wells are located in Southfront Lane and at the former Mobil (currently BP) service station located on the opposite (west) side of Southfront Lane. A free product plume was observed extending from the former tank pit off-site to the west.

After detection of the leak in December 1984, the leaking 10,000-gallon UST was decommissioned and then removed in March 1985. Two additional USTs, one 5,000-gallon and one 10,000-gallon UST were also removed in March 1985 and replaced by a new UST complex installed southeast of the dispenser island. Three 10,000-gallon double-walled fiberglass USTs were installed in the new UST pit. One monitoring well (C-4) located at the northwest corner of the former UST tank pit was destroyed during UST removal activities.

A drainage culvert west and northwest of the site was suspected to be a preferential pathway for free product. Therefore, one 12-inch recovery well was installed adjacent to the drainage culvert on the former Mobil service station. A double pump recovery system and air stripping unit was used to recover free product and extract and treat groundwater. The free product recovery and groundwater extraction system operated from February 1985 to April 1986. The groundwater extraction system also operated during the period from March 1990 to January 1991. A total of 1,070,999 gallons of groundwater was treated and 296 gallons of separate phase hydrocarbons were removed. The extraction and treatment system was removed in July 1993.

A drip under a dispenser was observed and repaired on January 22, 1996. In June 1997, product piping and dispensers were upgraded. Four soil samples were collected beneath the dispensers at depths of 3.0 to 3.5 feet bgs. MTBE was detected in all four soil samples at concentrations ranging from 0.27 to 2.2 mg/kg. Approximately 80 cubic yards of soil and pea gravel was excavated at the location where 2.2 ppm of MTBE was detected (soil sample P-3) and disposed off-site.

In April 2000, product lines were again upgraded and a 1,000-gallon waste oil UST was removed. MTBE was detected in 5 of 6 soil samples collected from the product line trenches at concentrations up to 0.57 ppm. Approximately 30 cubic yards of soil were removed from the former product line trenches and was disposed off-site. Oil and grease was detected in the soil samples collected beneath the waste oil UST at concentrations ranging from 100 to 150 ppm but TPHg, BTEX, MTBE, and VOCs were not detected. During the April 2000 station upgrade, four monitoring wells were destroyed as part of site grading and remodeling.

Groundwater monitoring was conducted at the site from 1986 to 2006. Groundwater concentrations have exhibited decreasing trends over the long period of monitoring. During the most groundwater sampling event on December 25, 2005, the maximum detected concentration of MTBE was 27 ppb.

Six soil borings were advanced to depths of 15 to 20 feet bgs at the site in August and September 2006. TPHg was detected in soil from 4 of the 6 borings at concentrations ranging from 2 to 230 ppm. MTBE was detected in two soil samples at concentrations of 0.0072 to 0.061 ppm.

IV. CLOSURE

Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan? ---		
Does completed corrective action protect potential beneficial uses per the Regional Board Basin Plan? ---		
Does corrective action protect public health for current land use? Alameda County Environmental Health staff does not make specific determinations concerning public health risk. However, based upon the information available in our files to date, it does not appear that the release would present a risk to human health based upon current land use and conditions.		
Site Management Requirements: Case closure for the fuel leak site is granted for commercial land use only. If a change in land use to residential or other conservative scenario occurs at this property, Alameda County Environmental Health must be notified and the case needs to be re-evaluated.		
Should corrective action be reviewed if land use changes? Yes		
Was a deed restriction or deed notification filed? No		Date Recorded: --
Monitoring Wells Decommissioned: No	Number Decommissioned: 13*	Number Retained: 9**
List Enforcement Actions Taken: None		
List Enforcement Actions Rescinded: --		

* The following monitoring wells were apparently properly decommissioned are: C-4 (1985), C-5 (2001), C-8 (2001), C-10 (2001), C-14 (2001), C-17 (2001), and C-19 (2001). Monitoring well C-1 is believed to have been destroyed during station upgrade activities in April 2000. Monitoring wells C-2, C-3, C-6, and C-15 are reported as destroyed during station upgrade activities in April 2000. Well RW-1 is believed to have been destroyed during demolition of the former groundwater treatment system.

** Monitoring wells C-7, C-9, C-11, C-12, C-13, C-20, and C-21 remain at the site. Monitoring wells C-16 and C-18 in Southfront Lane were apparently paved over. These wells need to be located and decommissioned.

V. ADDITIONAL COMMENTS, DATA, ETC.

Considerations and/or Variances:

Residual TPH as gasoline and MTBE remain in shallow groundwater and likely remain in soil in the area of the former USTs and downgradient at concentrations exceeding Environmental Screening Levels (Water Board February 2005). However, based on the absence of aromatic fuel hydrocarbons and decreasing concentrations over time, degradation of fuel hydrocarbons appears to be occurring. Therefore, TPH concentrations in soil and groundwater and the size of the plume are expected to continue to decrease due to natural attenuation processes.

MTBE was detected in soil collected during dispenser and product line upgrades in June 1997 at concentrations ranging from 0.27 to 2.2 ppm. The soil sample containing 2.2 ppm was collected beneath a dispenser at a depth of 3 feet bgs. The soil beneath the dispenser was excavated to a depth of 5 feet bgs and disposed off-site. MTBE was not detected in soil samples collected in August and September 2006 from a soil boring advanced adjacent to the dispenser and the previous elevated detection of MTBE. Based on the September 2006 soil results and relatively low concentrations of MTBE detected in groundwater during recent monitoring events, the residual MTBE in soil does not appear to pose a significant risk to groundwater quality.

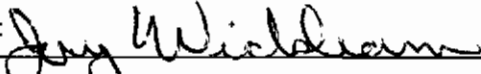
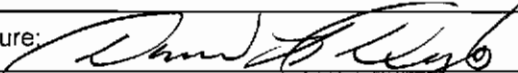
Wells C-7 and C-21 were not sampled during the period from 1997 to 2000.

MTBE was detected at a concentration of 700,000 ppb in groundwater collected from well C-11 on October 7, 1998. The next highest concentration of MTBE detected in groundwater from well C-11 between 1995 and 2005 was 11,000 ppb. From 2003 to 2005, the highest concentration of MTBE detected in groundwater collected from well C-11 was 17 ppb. Based on these results, the detection of 700,000 ppb of MTBE during one sampling event appears to be anomalous.

Conclusion:

Alameda County Environmental Health staff believe that the levels of residual contamination do not pose a significant threat to water resources, public health and safety, and the environment based upon the information available in our files to date. No further investigation or cleanup is necessary. ACEH staff recommend case closure for this site.

VI. LOCAL AGENCY REPRESENTATIVE DATA

Prepared by: Jerry Wickham	Title: Hazardous Materials Specialist
Signature: 	Date: 09/26/2006
Approved by: Donna L. Drogos, P.E.	Title: Supervising Hazardous Materials Specialist
Signature: 	Date: 09/26/06

This closure approval is based upon the available information and with the provision that the information provided to this agency was accurate and representative of site conditions.

VII. REGIONAL BOARD NOTIFICATION

Regional Board Staff Name: Cherie McCaulou	Title: Engineering Geologist
RB Response: Concur, based solely upon information contained in this case closure summary.	Date Submitted to RB:
Signature: <i>Cherie McCaulou</i>	Date: 10/25/06

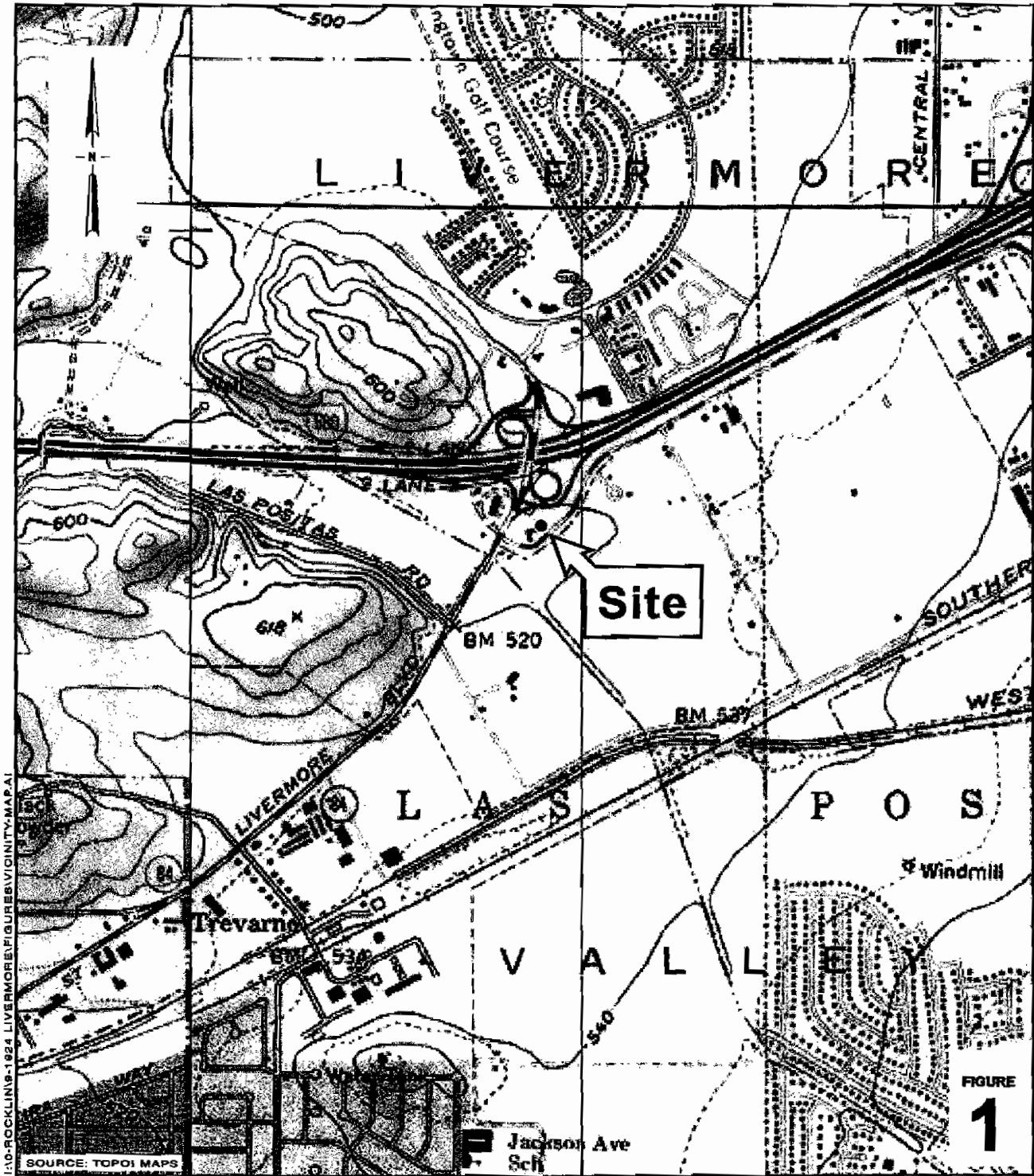
VIII. MONITORING WELL DECOMMISSIONING

Date Requested by ACEH: 10/26/06 06/28/07	Date of Well Decommissioning Report: 06/05/07 and 12/14/07
All Monitoring Wells Decommissioned: Yes <input checked="" type="radio"/> No	Number Decommissioned: 19 Number Retained: 3
Reason Wells Retained: C-1 presumed destroyed during station upgrades, unable to locate. C-16 and C-18 presumed destroyed during street construction, unable to locate.	
Additional requirements for submittal of groundwater data from retained wells: None	
ACEH Concurrence - Signature: <i>Jerry Nicholson</i>	Date: 12/21/07

Attachments:

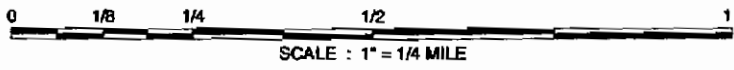
1. Vicinity Map
2. Soil Sample Location Map
3. Geological Cross Sections and Cross Section Location Map
4. Concentration Map, Groundwater Elevation Contour Map (6/13/2002), Groundwater Elevation Map (12/5/2005)
5. Soil Analytical Results Table
6. Groundwater Analytical Data
7. Well Construction Details Table and Boring Logs

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



1:10-ROCKLINS-1924 LIVERMORE FIGURE VICINITY MAP A1

SOURCE: TOPOI MAPS



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



C A M B R I A

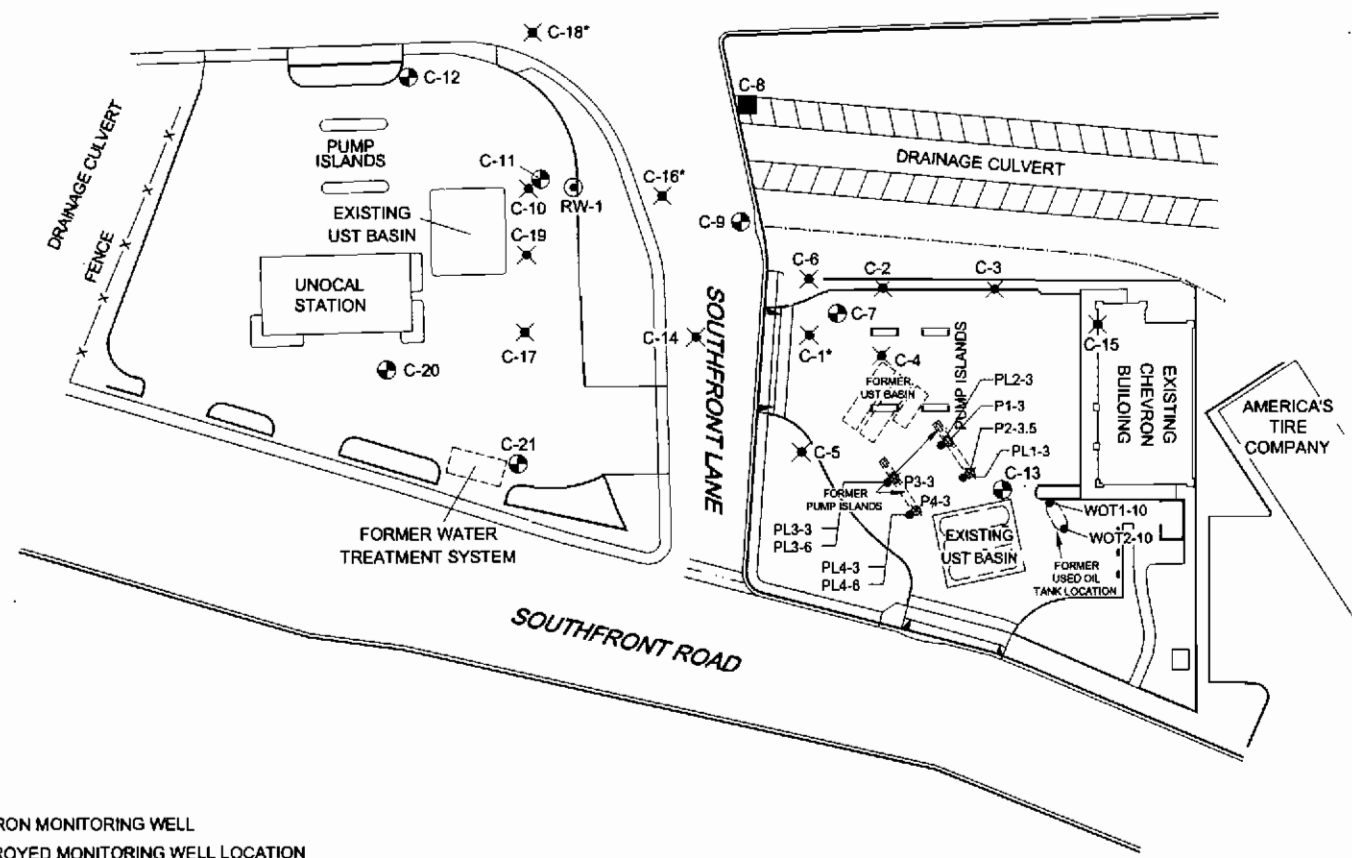
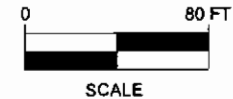
Alameda County
 JUN 02 2004
 Environment

Vicinity Map

ATTACHMENT 1



FIRST STREET
(HIGHWAY 84)



LEGEND:

- C-1 CHEVRON MONITORING WELL
- ✕ C-2 DESTROYED MONITORING WELL LOCATION
- C-8 ABANDONED MONITORING WELL LOCATION
- ⊙ RW-1 FORMER RECOVERY WELL LOCATION
- UNABLE TO LOCATE WELL
- PL1-3 PRODUCT LINE SOIL SAMPLE LOCATION (4/00)
- ✕ P1-3 PRODUCT LINE SOIL SAMPLE LOCATION (6/97)
- WOT-1-10 WASTE OIL TANK SOIL SAMPLE LOCATION

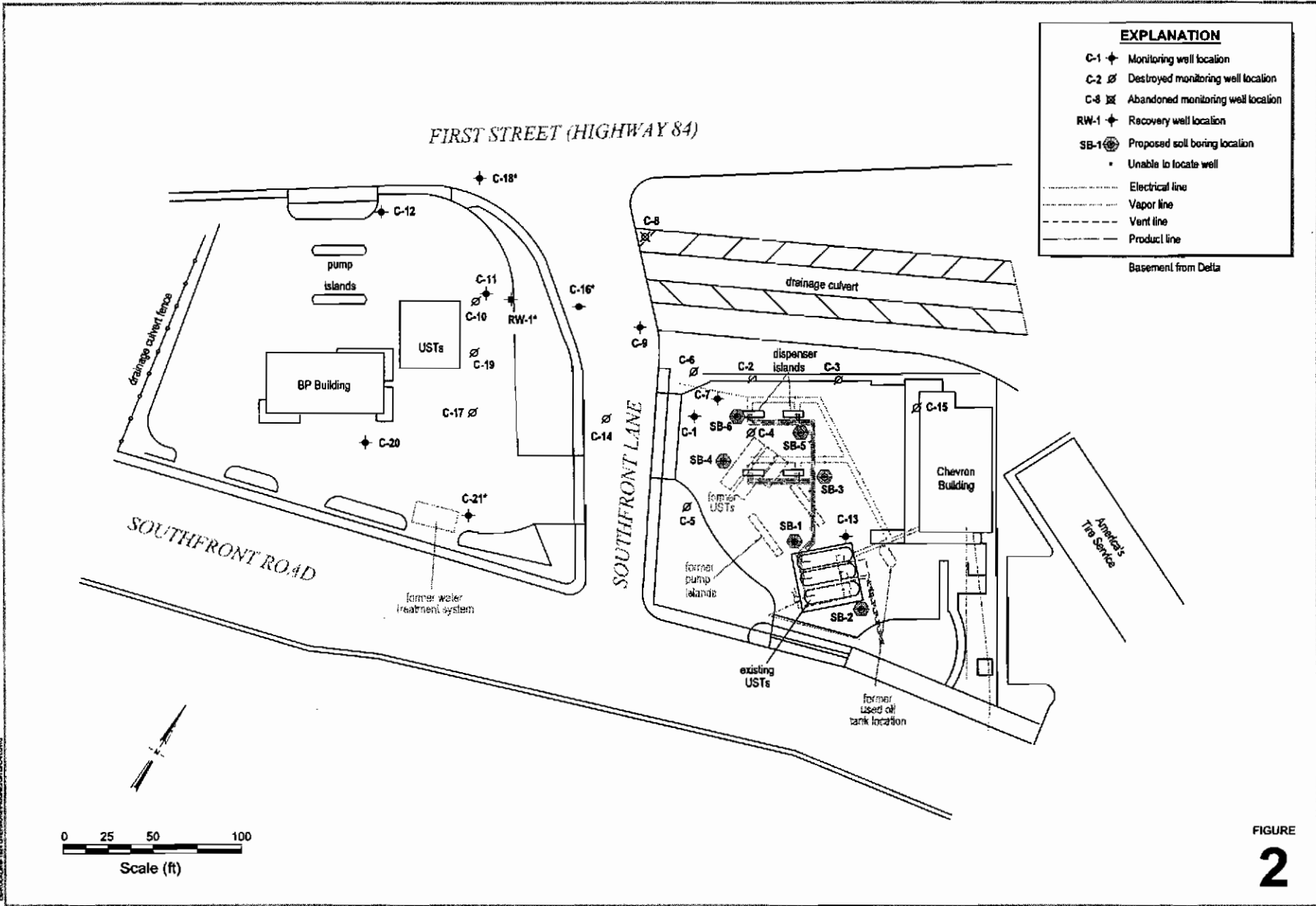
NOTE: SITE MAP ADAPTED FROM GROUNDWATER TECHNOLOGY FIGURES. SITE DIMENSIONS AND FACILITY LOCATIONS NOT VERIFIED.

FIGURE 3
SOIL SAMPLE LOCATION MAP
CHEVRON STATION NO. 9-1924
4904 SOUTHFRONT ROAD
LIVERMORE, CA.

PROJECT NO. DG91-924	DRAWN BY M.L. 7/31/02
FILE NO. DG91924B	PREPARED BY TAD
REVISION NO. 1	REVIEWED BY

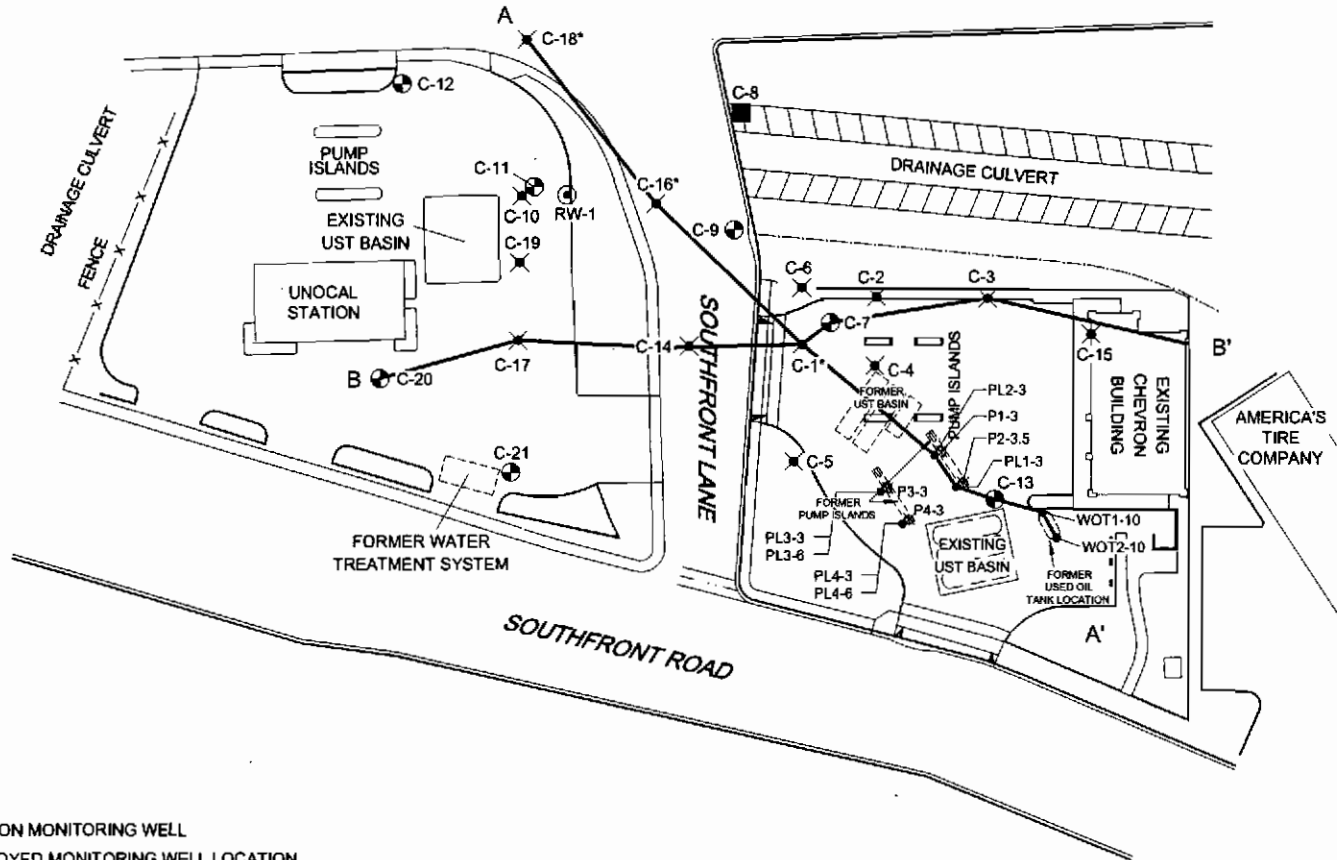
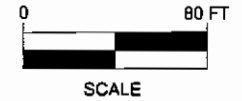


03/1/98





FIRST STREET
(HIGHWAY 84)



LEGEND:

- C-1 CHEVRON MONITORING WELL
- ✕ C-2 DESTROYED MONITORING WELL LOCATION
- C-8 ABANDONED MONITORING WELL LOCATION
- ⊙ RW-1 FORMER RECOVERY WELL LOCATION
- UNABLE TO LOCATE WELL
- A—A' GEOLOGIC CROSS SECTION TRACE
- PL1-3 PRODUCT LINE SOIL SAMPLE LOCATION (4/00)
- ✕ P1-3 PRODUCT LINE SOIL SAMPLE LOCATION (6/97)
- WOT-1-10 WASTE OIL TANK SOIL SAMPLE LOCATION

NOTE: SITE MAP ADAPTED FROM GROUNDWATER TECHNOLOGY FIGURES. SITE DIMENSIONS AND FACILITY LOCATIONS NOT VERIFIED.

FIGURE 2
SITE MAP WITH GEOLOGIC CROSS SECTION LOCATION
CHEVRON STATION NO. 9-1924
4904 SOUTHFRONT ROAD
LIVERMORE, CA.

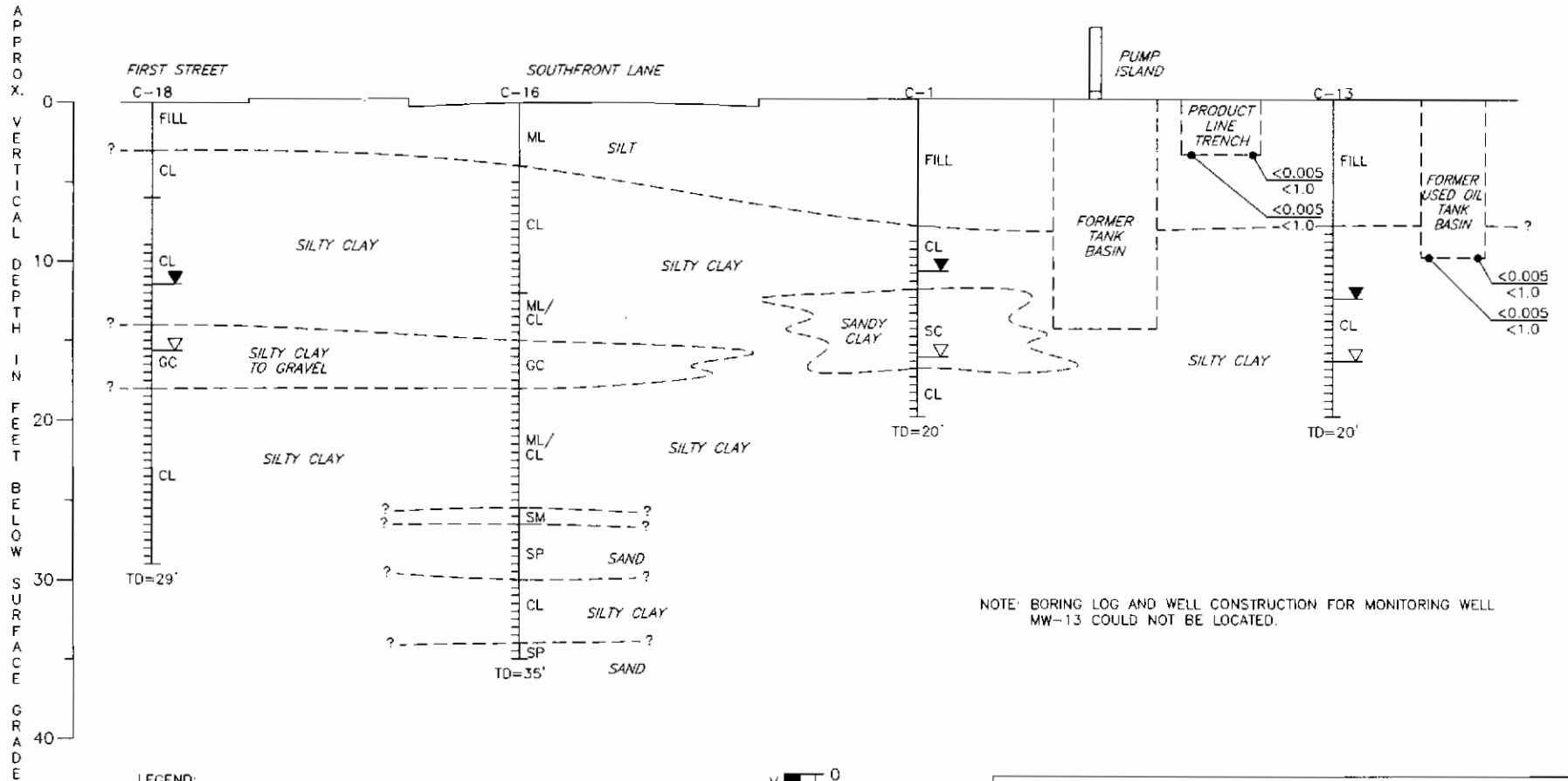
PROJECT NO. DG91-924	DRAWN BY M.L. 7/31/02
FILE NO. DG91924B	PREPARED BY TAD
REVISION NO. 7	REVIEWED BY



ATTACHMENT 3

A
NORTHWEST

A'
SOUTHEAST



NOTE: BORING LOG AND WELL CONSTRUCTION FOR MONITORING WELL MW-13 COULD NOT BE LOCATED.

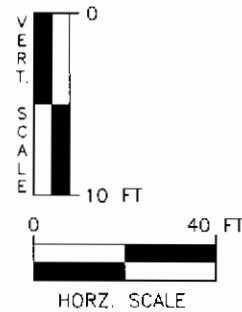
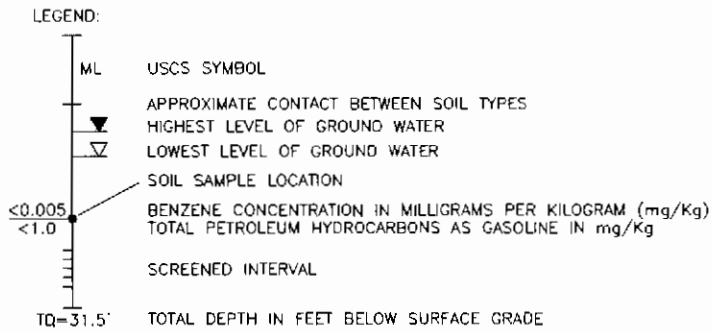


FIGURE 9
GEOLOGIC CROSS SECTION A-A'
CHEVRON SERVICE STATION NO. 9-1924
4904 SOUTHFRONT ROAD
LIVERMORE, CA.

PROJECT NO. DG91-924	DRAWN BY M.L. 10/17/00
FILE NO. DG919240	PREPARED BY JWS
REVISION NO. 2	REVIEWED BY

Delta
Environmental
Consultants, Inc.

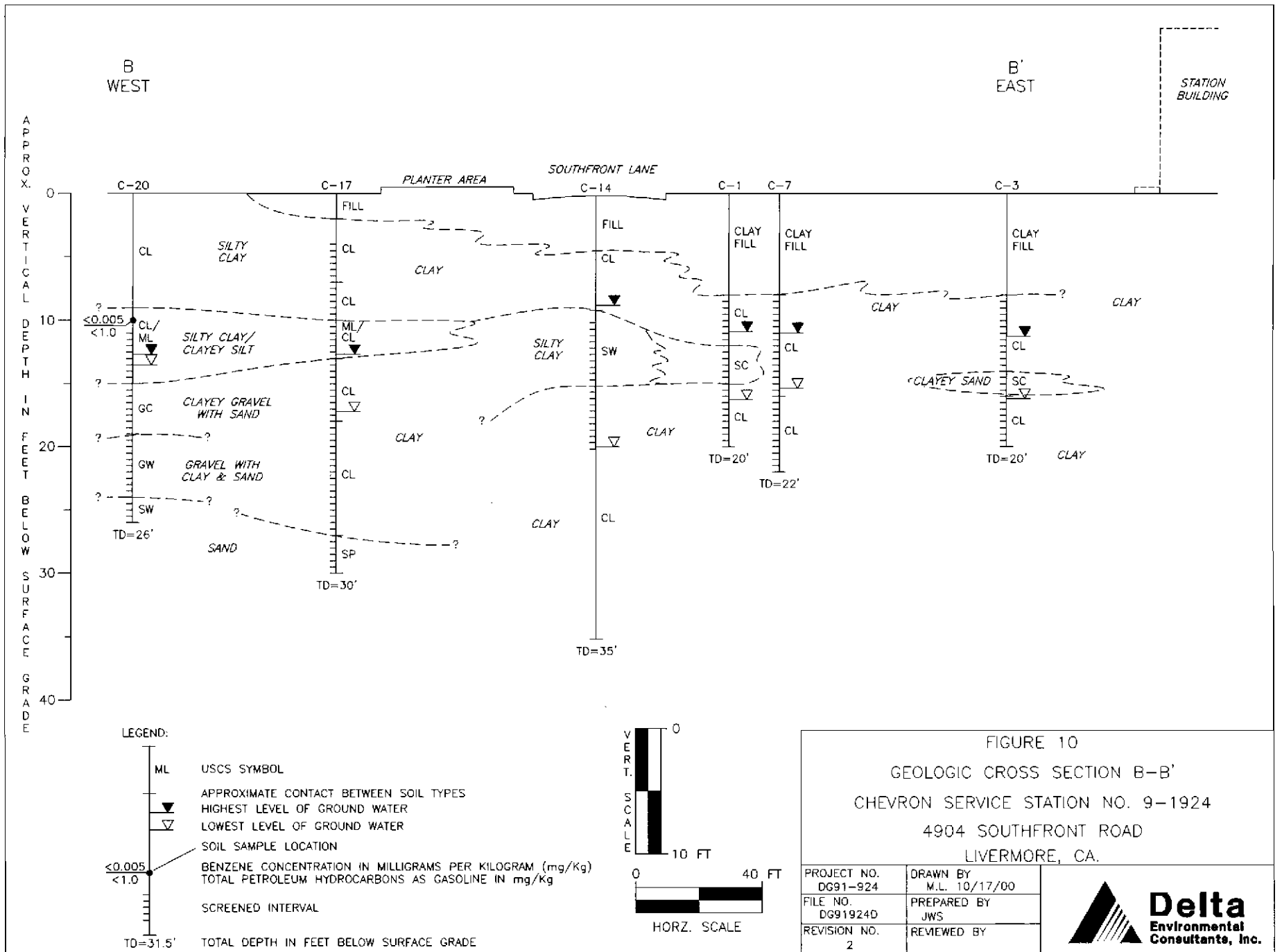
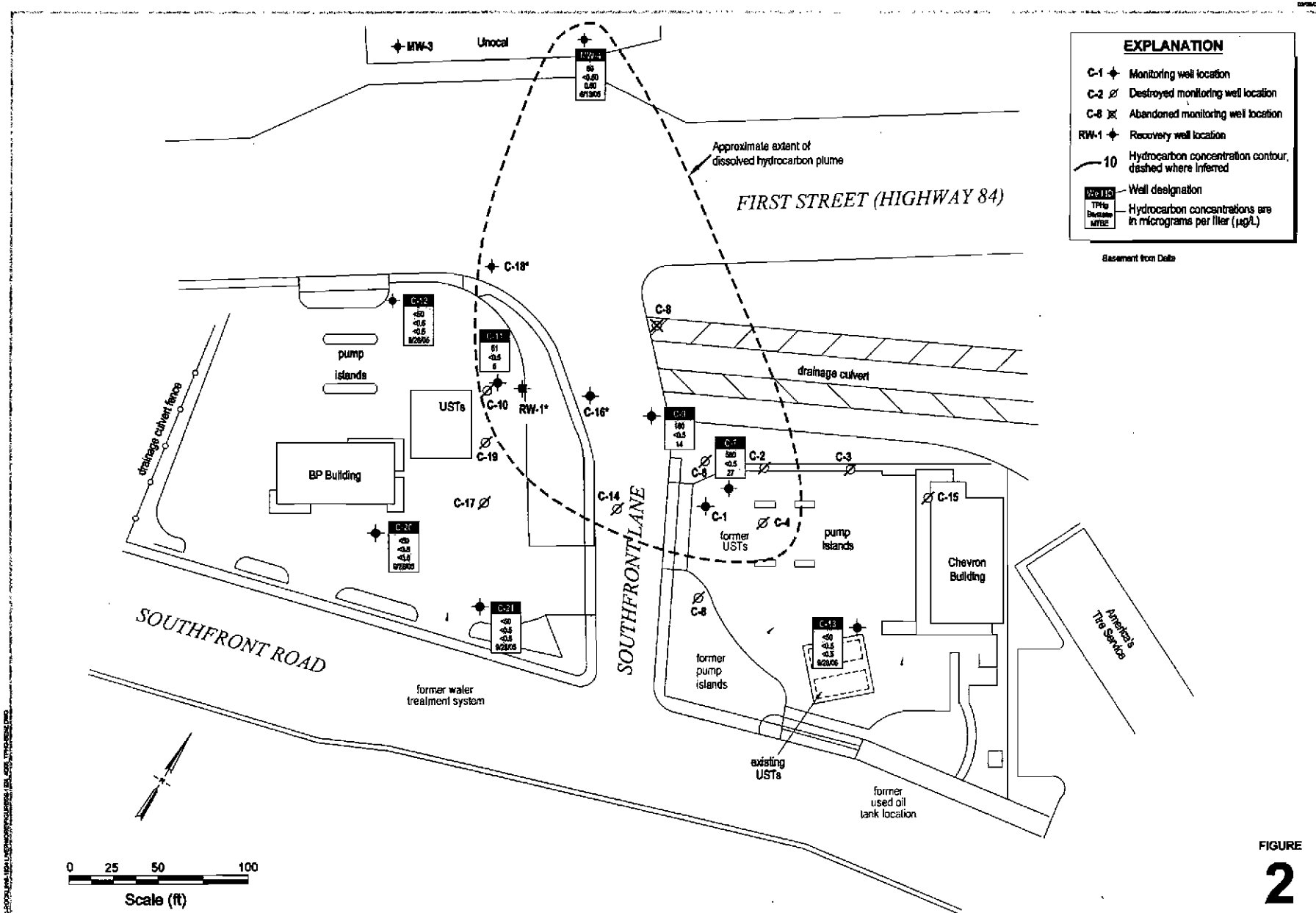


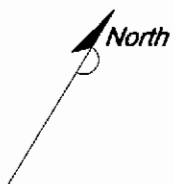
FIGURE 10
 GEOLOGIC CROSS SECTION B-B'
 CHEVRON SERVICE STATION NO. 9-1924
 4904 SOUTHFRONT ROAD
 LIVERMORE, CA.



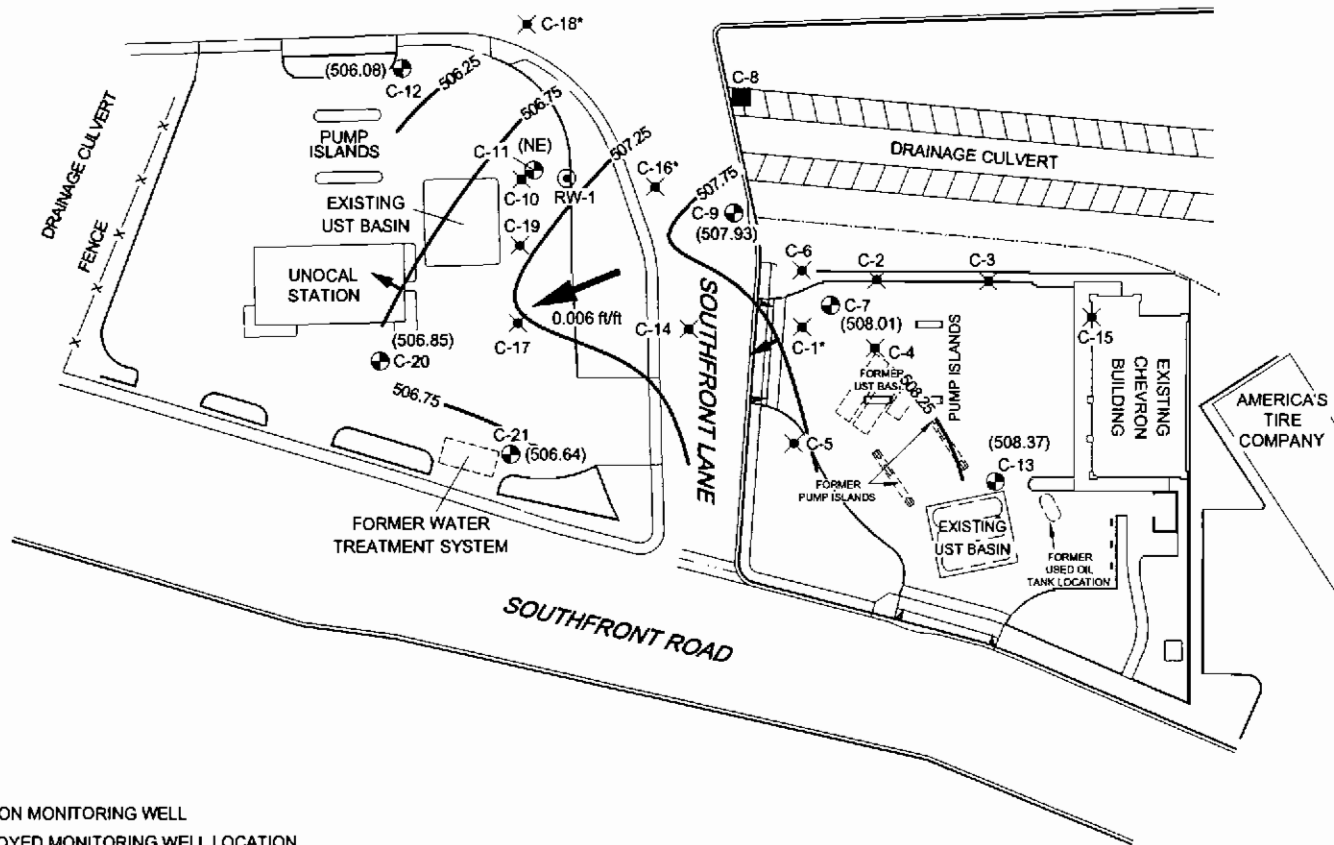
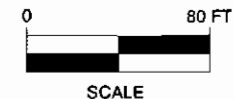


ATTACHMENT 4





FIRST STREET
(HIGHWAY 84)



LEGEND:

- ⊕ C-1 CHEVRON MONITORING WELL
- ✕ C-2 DESTROYED MONITORING WELL LOCATION
- C-8 ABANDONED MONITORING WELL LOCATION
- ⊙ RW-1 FORMER RECOVERY WELL LOCATION
- UNABLE TO LOCATE WELL
- (506.08) GROUNDWATER ELEVATION IN FEET RELATIVE TO MEAN SEA LEVEL
- 507.25— WATER TABLE CONTOUR IN FEET RELATIVE TO MEAN SEA LEVEL
- ➔ GROUNDWATER FLOW DIRECTION
- NE TOP OF CASING ELEVATION NOT ESTABLISHED

HYDRAULIC GRADIENT= 0.006 f/r MEASURED BETWEEN WELLS C-9 AND C-20

NOTE: SITE MAP ADAPTED FROM GROUNDWATER TECHNOLOGY FIGURES. SITE DIMENSIONS AND FACILITY LOCATIONS NOT VERIFIED.

FIGURE 5
GROUNDWATER ELEVATION CONTOUR MAP
6/13/02
CHEVRON STATION NO. 9-1924
4904 SOUTHFRONT ROAD
LIVERMORE, CA.

PROJECT NO. DG91-924	DRAWN BY M.L. 8/1/02
FILE NO. DG91924B	PREPARED BY TAD
REVISION NO. 1	REVIEWED BY



EXPLANATION

- ◆ Groundwater monitoring well
- Groundwater recovery well
- ✕ Destroyed well
- ⊗ Lost groundwater well during road reconstruction

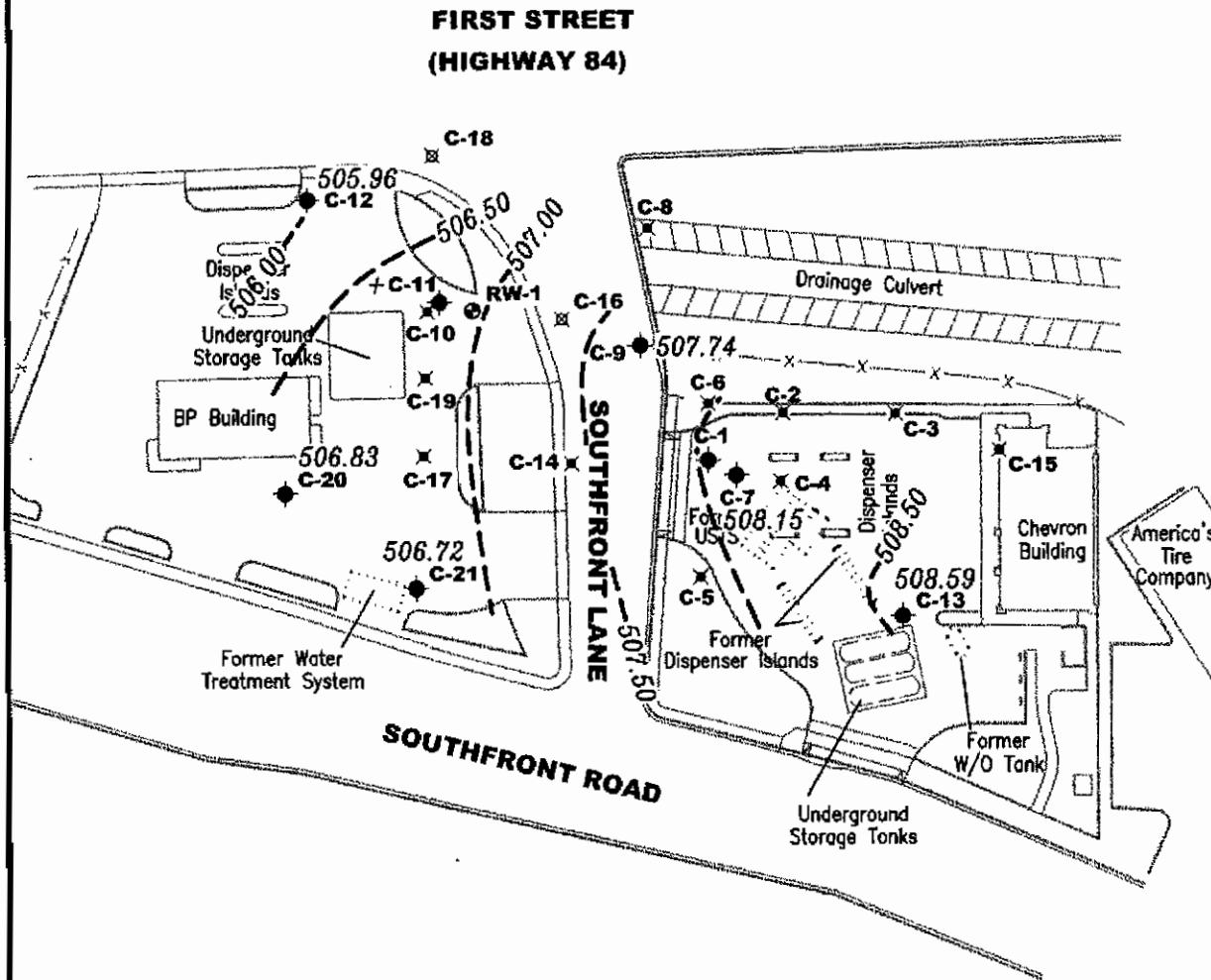
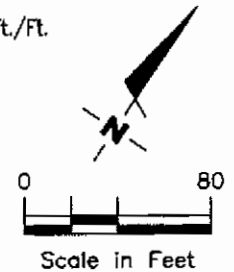
Note: Well C-1 and RW-1 are assumed destroyed per lead consultant

99.99 Groundwater elevation in feet referenced to Mean Sea Level

99.99 Groundwater elevation contour, dashed where inferred

+ TOC not available

Approximate groundwater flow direction at a gradient of 0.006 to 0.01 Ft./Ft.



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

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

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

FIGURE
1

PROJECT NUMBER
 386448

REVIEWED BY

DATE
 December 5, 2005

REVISED DATE

Table 1. Soil Analytical Results - Chevron Service Station #9-1924, 4904 Southfront Road, Livermore, California.

Sample ID	Depth (feet)	Date	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	TPHd	MtBE	O&G	VOs	SVOs	Cadmium	Chromium	Nickel	Lead	Zinc
←-----ppm----->																	
Product Lines																	
PL1-3	3	04/07/00	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	—	0.086	—	—	—	—	—	—	11	—
PL2-3	3	04/07/00	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	—	0.11	—	—	—	—	—	—	8.8	—
PL3-3	3	04/07/00	1.1	<0.0050	0.0056	<0.0050	<0.0050	—	0.54	—	—	—	—	—	—	11	—
PL3-6	6	04/07/00	3.6	0.0051	<0.0050	0.079	0.029	—	0.45	—	—	—	—	—	—	9.1	—
PL4-3	3	04/07/00	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	—	0.57	—	—	—	—	—	—	40	—
PL4-6	6	04/07/00	2.8	<0.0050	<0.0050	0.0091	0.033	—	<0.050	—	—	—	—	—	—	10	—
Waste Oil UST Pit																	
WOT1-10	10	04/06/00	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	<0.050	100	ND	ND ¹	<0.50	40	67	11	55
WOT2-10	10	04/06/00	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	1.5	<0.050	150	ND	ND	<0.50	47	62	9.5	49
Waste Oil UST Pit Stockpile																	
SP1-(A-D) ²	—	04/06/00	<1.0	<0.0050	<0.0050	<0.0050	0.0080	310	<0.050	210	ND	ND	<2.5	40	46	<2.5	52
Product Line Trench Stockpile																	
SP2-(A-D)	—	04/07/00	<1.0	<0.0050	<0.0050	<0.0050	0.010	—	<0.050	—	—	—	—	—	—	<5.0	—
Well Destruction Stockpile																	
SP3-(A-D)	—	04/12/00	39	<0.025	0.086	0.21	0.31	—	—	—	—	—	—	—	—	<1.0	—
Site Grading Stockpiles																	
SP4-(A-D)	—	04/21/00	<1.0	<0.0050	<0.0050	<0.0050	0.017	—	—	—	—	—	—	—	—	25	—
SP5-(A-D)	—	04/21/00	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	—	—	—	—	—	—	—	—	8.8	—

EXPLANATION:

TPHg = Total Petroleum Hydrocarbons as gasoline
 TPHd = Total Petroleum Hydrocarbons as diesel
 MtBE = Methyl t-Butyl Ether
 O&G = Oil and Grease
 VOs = Volatile Organics
 SVOs = Semivolatile Organics
 ppm = Parts per million
 — = Not analyzed/not applicable
 ND = Not detected

ANALYTICAL METHODS:

TPHg, benzene, toluene, ethylbenzene, xylenes and MtBE =
 DHS LUFT Method
 TPHd = DHS LUFT Method
 O&G = Standard Method 5520 E/F
 VOs = EPA Method 8010B
 SVOs = EPA Method 8270B
 Metals = ICP Scan

ANALYTICAL LABORATORY:

Sequoia Analytical (ELAP #1271)

NOTES

- ¹ = All compounds were not detected with the exception of bis(2-ethylhexyl)phthalate (0.71 ppm).
² = Sample was also analyzed for acetone (<0.50 ppm), 2-butanone (<0.50 ppm), mercury (0.031 ppm), antimony (23 ppm), arsenic (<5.0 ppm), barium (230 ppm), beryllium (<0.50 ppm), cobalt (9.1 ppm), copper (24 ppm), molybdenum (<0.50 ppm), selenium (64 ppm total, <1.0 ppm soluble), silver (2.3 ppm), thallium (<5.0 ppm), vanadium (110 ppm), and zinc (52 ppm).

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	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	-
<u>Product Lines</u>										
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	-
<u>Product Lines</u>										
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	-
<u>Used-oil UST</u>										
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 1
Soil Analytical Data
 Chevron Station 9-1924, 4904 Southfront Road, Livermore, California

Sample ID	Depth (fbg)	Date Sampled	TPHd	TPHmo	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	ETBE	DIPE	TAME	TBA	Ethanol
concentrations in milligrams per kilogram (mg/kg)															
SB-1-5	5	8/8/06	<1.0	<5.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	<0.25
SB-1-9.5	9.5	9/1/06	<1.0	<5.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	<0.25
SB-1-20	20	9/1/06	<1.0	<5.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	<0.25
SB-2-5	5	9/1/06	<1.0	<5.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	<0.25
SB-2-15	15	9/1/06	<1.0	<5.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	<0.25
SB-2-25	25	9/1/06	<1.0	<5.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	<0.25
SB-3-5	5	9/1/06	2.2 ^{a, b}	6.4	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	<0.25
SB-3-10	10	9/1/06	<1.0	<5.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	<0.25
SB-3-15	15	9/1/06	1.5 ^b	<5.0	3.1 ^d	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	<0.25
SB-4-5	5	8/8/06	1.5	<5.0	2.7 ^e	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	<0.25
SB-4-14.5	14.5	9/1/06	49 ^{b, c}	<5.0	230 ^e	<0.010	<0.010	<0.010	<0.010	0.061	<0.010	<0.010	<0.010	<0.10	<0.50
SB-4-20	20	9/1/06	<1.0	<5.0	2.0 ^e	<0.005	<0.005	<0.005	<0.005	0.0072	<0.005	<0.005	<0.005	<0.05	<0.25
SB-5-5	5	8/8/06	<1.0	<5.0	3.0 ^e	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	<0.25
SB-5-10	10	9/1/06	<1.0	<5.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	<0.25
SB-5-14.5	14.5	9/1/06	3.2 ^b	<5.0	2.5 ^d	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	<0.25
SB-6-5	5	8/8/06	<1.0	<5.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	<0.25
SB-6-10	10	9/1/06	<1.0	<5.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	<0.25
SB-6-15	15	9/1/06	3.0 ^{b, c}	<5.0	12 ^e	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	<0.25

Abbreviations:

TPHd= Total petroleum hydrocarbons as diesel by EPA Method 8015B Modified
 TPHmo = Total petroleum hydrocarbons as motor oil by EPA Method 8015B Modified
 TPHg = Total petroleum hydrocarbons as gasoline by EPA Method 8015B
 BTEX = Benzene, toluene, ethylbenzene, and xylenes by EPA Method 8260B
 MTBE = Methyl tertiary butyl ether by EPA Method 8260B
 DIPE = Di-isopropyl ether by EPA Method 8260B
 ETBE = Ethyl tertiary butyl ether by EPA Method 8260B
 TAME = Tertiary amyl methyl ether by EPA Method 8260B
 TBA = Tertiary butyl alcohol by EPA Method 8260B
 fbg = Feet below grade
 <x = below laboratory detection limits

Explanation:

a = oil range compounds are significant.
 b = diesel range compounds are significant; no recognizable pattern.
 c = gasoline range compounds are significant.
 d = strongly aged gasoline or diesel range compounds are significant.
 e = no recognizable pattern.

Table 1
Groundwater Monitoring Data and Analytical Results
Chevron Service Station #9-1924
4904 Southfront Road
Livermore, California

WELL ID/ DATE	TOC* (fl.)	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	--	--

Table 1
Groundwater Monitoring Data and Analytical Results
Chevron Service Station #9-1924
4904 Southfront Road
Livermore, California

WELL ID/ DATE	TOC* (<i>ft.</i>)	GWF (<i>msl</i>)	DTW (<i>ft.</i>)	TPH-G (<i>ppb</i>)	B (<i>ppb</i>)	T (<i>ppb</i>)	E (<i>ppb</i>)	X (<i>ppb</i>)	MTBE (<i>ppb</i>)	TOG (<i>ppb</i>)
C-7 (cont)										
07/18/95	520.30	508.32	11.98	1,200	63	<5.0	12	<5.0	--	--
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 ^d	--
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 ^d	--
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 ^d	--
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	--
06/29/04 ⁵	521.16	507.31	13.85	1,100	<0.5	<0.5	0.9	<0.5	48	--
09/02/04 ¹	521.16	507.09	14.07	500	<0.5	<0.5	<0.5	<0.5	60	--
12/03/04 ⁵	521.16	507.41	13.75	400	<0.5	<0.5	<0.5	<0.5	18	--
03/01/05 ⁵	521.16	508.84	12.32	550	<0.5	<0.5	<0.5	<0.5	6	--
06/29/05 ⁵	521.16	508.05	13.11	370	<0.5	<0.5	<0.5	<0.5	7	--
09/28/05 ⁵	521.16	507.90	13.26	610	<0.5	<0.5	<0.5	<0.5	26	--
12/05/05 ⁵	521.16	508.15	13.01	580	<0.5	<0.5	<0.5	<0.5	27	--
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	--	--	--	--	--	--	--

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)										
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
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	--

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 (pph)	X (ppb)	MTBE (ppb)	TOG (ppb)
C-9 (cont)										
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	--
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	--
06/29/04 ⁵	519.64	506.99	12.65	470	<0.5	<0.5	<0.5	<0.5	16	--
09/02/04 ⁵	519.64	506.75	12.89	1,200	<0.5	<0.5	<0.5	<0.5	7	--
12/03/04 ⁵	519.64	507.05	12.59	1,100	<0.5	<0.5	<0.5	<0.5	6	--
03/01/05 ⁵	519.64	508.36	11.28	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
06/29/05 ⁵	519.64	507.66	11.98	690	<0.5	<0.5	<0.5	<0.5	3	--
09/28/05 ⁵	519.64	507.51	12.13	290	<0.5	<0.5	<0.5	<0.5	14	--
12/05/05 ⁵	519.64	507.74	11.90	160	<0.5	<0.5	<0.5	<0.5	14	--

Table 1
Groundwater Monitoring Data and Analytical Results
Chevron Service Station #9-1924
4904 Southfront Road
Livermore, California

WELL ID/ DATE	TOC* (<i>µ</i> L)	GWE (<i>msl</i>)	DTW (<i>ft.</i>)	TPH-G (<i>ppb</i>)	B (<i>ppb</i>)	T (<i>ppb</i>)	E (<i>ppb</i>)	X (<i>ppb</i>)	MTBE (<i>ppb</i>)	TOG (<i>ppb</i>)
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	--	--
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	--	--

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)										
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	--
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	--
06/29/04 ⁵	-- ³	--	13.51	89	<0.5	<0.5	<0.5	<0.5	17	--
09/02/04 ⁵	-- ³	--	14.70	<50	<0.5	<0.5	<0.5	<0.5	8	--
12/03/04 ⁵	-- ³	--	13.61	<50	<0.5	<0.5	<0.5	<0.5	1	--
03/01/05 ⁵	-- ³	--	12.94	65	<0.5	<0.5	<0.5	<0.5	6	--
06/29/05 ⁵	-- ³	--	13.08	<50	<0.5	<0.5	<0.5	<0.5	7	--
09/28/05 ⁵	-- ³	--	13.18	<50	<0.5	<0.5	<0.5	<0.5	3	--
12/05/05 ⁵	-- ³	--	13.31	51	<0.5	<0.5	<0.5	<0.5	5	--

Table 1
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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										
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	--	--
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	--

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 4904 Southfront Road
 Livermore, California

WELL ID/ DATE	TOC* (fl.)	GWE (msl)	DTW (fl.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	TOG (ppb)
C-12 (cont)										
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	--
06/29/04 ⁵	519.87	505.83	14.04	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
09/02/04 ⁵	519.87	505.60	14.27	<50	<0.5	<0.5	<0.5	2	<0.5	--
12/03/04	519.87	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--
03/01/05	519.87	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--
06/29/05	519.87	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--
09/28/05 ⁵	519.87	506.09	13.78	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
12/05/05	519.87	505.96	13.91	SAMPLED ANNUALLY		--	--	--	--	--
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	--	--

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C-13 (cont)										
05/08/90	522.24	507.22	15.02	ND	ND	ND	ND	ND	--	--
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 ¹	--
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	--
06/29/04 ⁵	522.30	507.75	14.55	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
09/02/04 ⁵	522.30	507.53	14.77	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
12/03/04	522.30	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--

Table 1
Groundwater Monitoring Data and Analytical Results
Chevron Service Station #9-1924
4904 Southfront Road
Livermore, California

WELL ID/ DATE	TOC ^a (ft.)	GWE (msl)	DTW (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	TOG (ppb)
C-13 (cont)										
03/01/05	522.30	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--
06/29/05	522.30	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--
09/28/05 ⁵	522.30	508.37	13.93	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
12/05/05	522.30	508.59	13.71	SAMPLED ANNUALLY		--	--	--	--	--
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	--
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	--
06/29/04 ⁵	520.63	506.58	14.05	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
09/02/04 ⁵	520.63	506.38	14.25	<50	<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

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)										
12/03/04	520.63	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--
03/01/05	520.63	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--
06/29/05	520.63	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--
09/28/05 ⁵	520.63	506.97	13.66	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
12/05/05	520.63	506.83	13.80	SAMPLED ANNUALLY	--	--	--	--	--	--
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	--
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	--
06/29/04 ⁵	519.64	506.41	13.23	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
09/02/04 ⁵	519.64	506.16	13.48	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
12/03/04	519.64	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--
03/01/05	519.64	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--
06/29/05	519.64	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--
09/28/05 ⁵	519.64	506.84	12.80	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
12/05/05	519.64	506.72	12.92	SAMPLED ANNUALLY	--	--	--	--	--	--

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-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	--	--
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	--	--

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Groundwater Monitoring Data and Analytical Results
Chevron Service Station #9-1924
4904 Southfront Road
Livermore, California

WELL ID/ DATE	TOC* (fl.)	GWE (msl)	DTW (fl.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	TOG (ppb)
C-1 (cont)										
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
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	--	--	--	--	--	--	--

Table 1
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Chevron Service Station #9-1924
4904 Southfront Road
Livermore, California

WELL ID/ DATE	TOC* (fL)	GWE (msl)	DTW (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	FOG (ppb)	
C-2 (cont)											
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	--	
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	--	--	--	--	--	--	--	

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Livermore, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	TPH-C (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	TOG (ppb)
C-3 (cont)										
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										
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	--	--	--	--	--	--	--

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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)										
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	--
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	--

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)											
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	--	--	--	--	--	--	--	
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	--	--	

Table I
Groundwater Monitoring Data and Analytical Results
Chevron Service Station #9-1924
4904 Southfront Road
Livermore, California

WELL ID/ DATE	TOC* (<i>fl.</i>)	GWE (<i>msl</i>)	DTW (<i>fl.</i>)	TPH-G (<i>ppb</i>)	B (<i>ppb</i>)	T (<i>ppb</i>)	E (<i>ppb</i>)	X (<i>ppb</i>)	MTBE (<i>ppb</i>)	TOG (<i>ppb</i>)
C-6 (cont)										
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	--	--	--	--	--	--	--
07/25/88	519.74	506.09	13.65	--	--	--	--	--	--	--

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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)										
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	--	--

Table 1
Groundwater Monitoring Data and Analytical Results
Chevron Service Station #9-1924
4904 Southfront Road
Livermore, California

WELL ID/ DATE	TOC* (fl.)	GWE (msl)	DTW (fl.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	TOC (ppb)
C-10 (cont)										
04/21/94	520.41	505.79	14.62	ND	0.8	ND	ND	ND	--	--
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	--	--

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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)										
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	--	--
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										

Table 1
Groundwater Monitoring Data and Analytical Results
Chevron Service Station #9-1924
4904 Southfront Road
Livermore, California

WELL ID/ DATE	FOC* (ft)	GWE (msl)	DTW (ft)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	TOG (ppb)
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	--	--	--	--	--	--	--
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

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										
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	--	--	--	--	--	--	--
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	--	--	--	--	--	--	--	--

Table 1
Groundwater Monitoring Data and Analytical Results
Chevron Service Station #9-1924
4904 Southfront Road
Livermore, California

WELL ID/ DATE	TOC* (fl.)	GWE (mst)	DTW (fl.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	TOG (ppb)
C-16 (cont)										
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		--	--	--	--	--	--	--
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	--	--

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)										
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	--	--
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	--	--	--	--	--	--	--	--	--

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)										
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	--	--
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

Table 1
Groundwater Monitoring Data and Analytical Results
Chevron Service Station #9-1924
4904 Southfront Road
Livermore, California

WELL ID/ DATE	TOC* (<i>ft.</i>)	GWE (<i>msl</i>)	DTW (<i>ft.</i>)	TPH-G (<i>ppb</i>)	B (<i>ppb</i>)	T (<i>ppb</i>)	E (<i>ppb</i>)	X (<i>ppb</i>)	MTBE (<i>ppb</i>)	TOG (<i>ppb</i>)
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	--	--
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		--	--	--	--	--

Table 1
Groundwater Monitoring Data and Analytical Results
Chevron Service Station #9-1924
4904 Southfront Road
Livermore, California

WELL ID/ DATE	TOC* (<i>µ</i> L)	GWE (<i>msl</i>)	DTW (<i>ft.</i>)	TPH-G (<i>ppb</i>)	B (<i>ppb</i>)	T (<i>ppb</i>)	E (<i>ppb</i>)	X (<i>ppb</i>)	MTBE (<i>ppb</i>)	TOG (<i>ppb</i>)
C-19 (cont)										
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	--
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	--

TABLE 3

WELL CONSTRUCTION DETAILS

Chevron Station No. 9-1924
 4904 Southfront Road
 Livermore, California

Well ID	Date Installed	Total Depth (ft)	Well Diameter	Screen Type	Screen Interval	Status
C-1	12/21/84	26.5	3-inch	0.020	8-20	destroyed
C-2	12/21/84	21.5	3-inch	0.020	10-25	destroyed
C-3	12/21/84	20.5	3-inch	0.020	8-20	destroyed
C-4	01/03/85	23	3-inch	0.020	9-23	destroyed
C-5	01/03/85	21	3-inch	0.020	8-20	destroyed
C-6	01/03/85	22	3-inch	0.020	7-22	destroyed
C-7	01/03/85	22	3-inch	0.020	7-22	active
C-8	01/03/85	22.5	3-inch	0.020	7-22	abandoned
C-9	01/03/85	23	3-inch	0.020	7-22	active
C-10	01/03/85		3-inch	0.020		destroyed
C-11	01/03/85		3-inch	0.020		active
C-12	01/10/85	23	3-inch	0.020	10-20	active
C-13	01/10/85	22	3-inch	0.020	10-20	active
C-14	01/10/85	35	3-inch	0.020	10-20	destroyed
C-15	01/10/85	22	3-inch	0.020	7-22	destroyed
C-16	01/09/85	35	3-inch	0.020	5-35	destroyed
C-17	01/09/85	30	3-inch	0.020	4-30	destroyed
C-18	03/29/85	29	2-inch	0.020	9-29	destroyed
C-19	03/29/85	25	2-inch	0.020	9-25	destroyed
C-20	10/02/95	26.5	2-inch	0.020	10-25	active
C-21	10/02/95	26.5	2-inch	0.020	10-25	active
RW-1	01/06/85	32.5	12-inch	0.020	10-32.5	unknown

Note: Well construction details for C-10 and C-11 are not known at this time.

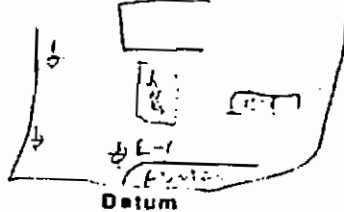


LOG OF EXPLORATORY BORING

PROJECT No. 4100 DATE 1/15/70
 CLIENT 1-1
 LOCATION 1000 1st St
 LOGGED BY 1-1 DRILLER 1-1

BORING No. C-1
 Sheet 1
 of 1

Field location of boring:



Ground Elev. _____ Datum _____

Drilling method 1 1/2" bit Hole dia. 1 1/2"
 Casing installation data 3" PVC lower 17' slotted
2' dia. 1" sand to 6' below casing
into sandstone

Water level	13.5'	13		
Time	1:00 PM	1:00 PM		
Date		1/15/70		

DESCRIPTION

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.)
					2		CL
					4		CL
	7.60 (7)	6/10/14 18" dia	STDM see 95%	1	6		CL
					8		CL
	1.55	6/11/15 18" dia	MOL	2	10		CL
					12		CL
		4/7/19	Sipm	3	15		SC
	1.17	12" dia	see 100%		16		SC
					18		CL
	2.55	6/8/12 18" dia	Sipm	4	20		CL
					22		CL
					24		CL
					26		CL
					28		CL
					30		CL
					32		CL
					34		CL
					36		CL
					38		CL
					40		CL
					42		CL
					44		CL
					46		CL
					48		CL
					50		CL
					52		CL
					54		CL
					56		CL
					58		CL
					60		CL
					62		CL
					64		CL
					66		CL
					68		CL
					70		CL
					72		CL
					74		CL
					76		CL
					78		CL
					80		CL
					82		CL
					84		CL
					86		CL
					88		CL
					90		CL
					92		CL
					94		CL
					96		CL
					98		CL
					100		CL

1-2
 CL - Olive gy. (13) to pink (17.2.5.1) granular
 silty CLAY FILL, some CRS gravel - dense
 no odor

CL - Clay color (10.7.2.1) clayey SAND & SILT
 sandy CLAY containing root holes, linear inclusions
 faint plasticity in p

- plastic - 10% moisture
 SC - Yellowish brown (15.5.1) silty SAND
 root holes, some plasticity, some sandstone
 - 10% CRS water, some sandstone inclusions

CL - Light gray (10.7.2.1) silty CLAY, granular
 no root holes, some sandstone inclusions, some
 sandstone inclusions

- MF 71.5. 100% sandstone, some sandstone inclusions

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LOG () EXPLORATORY BORING

PROJECT No. 421-2002 DATE 12/21/11
 CLIENT G.R.
 LOCATION Livermore
 LOGGED BY WJP DRILLER HFV

C-2
 Sheet
 of

Field location of boring:



Drilling method Hollowstem
 Hole dia. 8"

Casing installation data Cased w/ 25' 3" PVC
lower 15 slot sand to 8 bent. top
conc 7400 w/alt

Ground Elev. _____ Datum _____

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	CL - Dark yellowish brown (10YR-3/4) slightlv fine sandy silty CLAY - dump FILL
	2.5	5 1/2 / 12 18" dia. /	St Pen re 100%	1				- chr black (5Y-2.5/1) minor 5% fine sand debris, no odor - dump debris & sandy
	NT	6 1/2 / 17 18" dia. /	MUD re 50%	2			CL	CL - Yellowish brown (10YR-5/4) silty CLAY same wet holes or burrows limonite nodules (black water holes?) - dump
	3.10	5 7/11 18" dia. /	St Pen re 100%	3			SC	- contains very fine gravel and 10% dissem fine sand no odor - dump very stiff SC - Clayey fine SAND wet no sample infer same as in C-1
	NT	12 1/16 18" dia. /	St Pen re 100%	4			CL	CL - light gray (10YR-7/2) silty CLAY, contains dissem fine sand (5% C) appears strongly oxidized and leached very stiff - dump
	2.0	5/8 12" dia. /	St Pen / SS	5				- chr change to dark grey brown (10YR-4/2) - dump TD 26.5 probe 5+ feet clay, end in clay circifluid
								NOTE - ridor from hole of fresh gas assume sand or water 1/8" penet re with

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PRELIMINARY

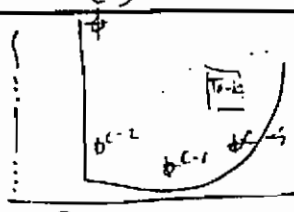


LOG OF EXPLORATORY BORING

PROJECT No. 7 SP-501 DATE 12/21/77
 CLIENT GR
 LOCATION Livermore
 LOGGED BY CMP DRILLER HFW

DURING IN
C-3
 Sheet 1
 of 1

Field location of boring:



Ground Elev.

Datum

Drilling method Hollow stem

Hole dia. 8"

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

Water level	<u>14' ±</u>		
Time	<u>4:00</u>		
Date	<u>12/21/77</u>		

Pocket Torrvane TSF	Pocket Penetrometer TSF	Blows/ft. or Pressure PSI	Type of Sample	Sample Number	Depth	Sample	Soil Group Symbol (U.S.C.S.)
					2		AC
					4		
	<u>1.0</u>	<u>5/17</u> <u>18"</u>	<u>SS</u> <u>rec 80%</u>	<u>1</u>	<u>6</u>		
					8		
	<u>3.8</u>	<u>6/6/2</u> <u>18"</u>	<u>SS</u> <u>rec</u>	<u>2</u>	<u>10</u>		CL
					12		
	<u>2.5</u>	<u>6/9/11</u> <u>18"</u>	<u>MO</u> <u>rec 100%</u>	<u>3</u>	<u>16</u>		SC
					18		CL
	<u>4.25</u>	<u>6/7/12</u> <u>18"</u>	<u>SS</u> <u>rec</u>	<u>4</u>	<u>20</u>		CL

DESCRIPTION

AC
CL - Black (5YR. 2.5/1) sand slightly gravelly silty CLAY, FILL - damp to moist
- no above no odor

CL - Brown (10YR. 5/3) slightly fine sandy silty CLAY sand 5% ± ^{wf} stiff no odor - root hole - none and unfilled - damp; some root holes open

SC - Brown (10YR. 5/3) clayey fine SAND, very faint odor, stiff, w/ root holes - w/ decrease odor 16 to 16.5

CL - Brown (10YR. 5/3) and silty (10YR. 7/2) silty CLAY contains trace fine sand - 10% and fine gravel - 5% in dm matrix, no odor damp - very stiff - damp all color light grey (10YR. 7.5/2) TOC 21.5 in st. fc clay as indicated as in C-1, C-2, C-5

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PRELIMINARY

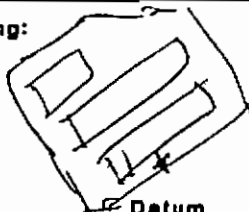


LOG OF EXPLORATORY BORING

PROJECT No. 438-55.1 DATE 1-3-85
 CLIENT 6R Chevron
 LOCATION LIVERMORE
 LOGGED BY COY DRILLER XD

BORING No. C-4
 Sheet 1
 of 1

Field location of boring:



Drilling method 7 1/2" HS
 Hole dia. 7 1/2"

Casing Installation date 3" PVC SWF 23-9, BLANK TO SURF. SAND TO 8, BC TO SURF

Ground Elev. _____ Datum _____

Pocket Torrvane TSF	Pocket Penetrometer TSF	Blows/ft. or Pressure PSI	Type of Sample	Sample Number	Depth	Sample	Soil Group Symbol (U.S.C.S.)	Water level				DESCRIPTION
								Time	Date			
					2		CL					CLAY Black (SY 2.5/1) 5% sand, 5% fine to medium gravel, damp, slight prod odor
					4		SW					SAND Greyish brown (2.5/2) 0-5% clay, 5% fine gravel, 90% fine sand - damp strong product odor
		1/2/4	STP	100%	8							2.5-9.5: saturated w/ gas
					10		CL					CLAY Olive (SY 5/3) 0-5% fine sand, 5% silt, 90% fines, white calcareous mottle - moist, very strong gas odor
		15/14/20	1 STP	100%	14							~12.5-14': saturated w/ black gas (old?)
					16							~13.0-16.0' increase fine to medium sand (~10%); much white discoloration (wet, very slight gas odor)
		5/18/20	STP	100%	20							16.5'-23' = much discoloration (leaching?), stiff, damp, no gas odor
					24							Hole TERMINATED = G.I.O.

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PRELIMINARY

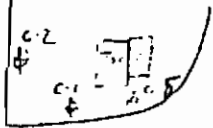


LOG OF EXPLORATORY BORING

PROJECT No. 7-11 DATE 12/21
 CLIENT OK
 LOCATION 11111
 LOGGED BY HP DRILLER HP

C-5
 Sheet 1
 of 1

Field location of boring:



Drilling method Rotary Hole dia. 8"

Casing Installation data cased w/ 2 1/2" PVC
inner 12 slotted sand to 6' band to 5'
concrete to 0

Ground Elev. _____ Datum _____

Pocket Torrvane TSF	Pocket Penetrometer TSF	Blows/ft. or Pressure PSI	Type of Sample	Sample Number	Depth	Sample	Soil Group Symbol (U.S.C.S.)
					0		CL
		4.7/13	SS	1	1		
		18"	MC 100%				
		lost	200% MC				
					10		CL
NOTE -	3.1 - 5/11/11		SS	2			
description	14"		rec 100%				
classification							
		4.7/10	SS	3	15		SC
SC → 1.5	18"		rec 100%				
CL → 2.5							
		1.5	SS	4	21		CL
	6/9/12"		MC 100%				

Water level	14'±			
Time	2:13			
Date	12/21			

DESCRIPTION

7" AC caps borehole to 12"
 CL - Black (SY. 2.5/1) silty CLAY FILL, appears
 sand core would be highly moist
 CL - Olive gray (SY. 5/2) silty CLAY fine sand
 matrix, matrix 2% K faint petrology
 not holes infilled with clay, occ. organic
 holes 1% to some very discrete thin ~~shells~~ se
 discharge to ~~clay~~ ~~matrix~~ 10% (S/C)
 SC - Yellowish brown (SY. 5/5) clay. fine SAND
 matrix, matrix very faint odor, faintly very
 sandy, well - sorted, some discrete 1/16"
 CL - Light gray (SY. 7/2) silty CLAY stiff
 appears to be ~~clay~~ ~~matrix~~ of clay - damp
 TO 21.0 into same clay as indicated as
 C-1, C-2

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PRELIMINARY

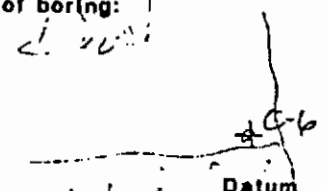


LOG OF EXPLORATORY BORING

PROJECT No. 438-EST TE 1-3-85
 CLIENT CAF Chaorna
 LOCATION LIVERMORE
 LOGGED BY FDI DRILLER XD

BORING No. C-6
 Sheet
 of

Field location of boring: C-6



Drilling method 7 1/2" HS Hole dia. 7 1/2"

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

Ground Elev. Datum

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 brx
					4			CLAY (Fin) Black to reddish brown (542.5/1) - (544/3) ~5% fine to medium sand, 10-15% silt 80-85% fines - trace medium gravel - damp
		15/20/18	STP		10		SW	SAND dk brown (7.542 1/4) 0-5% fines, 40% fine to med gravels, 85-90% fine to coarse SAND - moist, STRONG GAS ODR
					14			(cont)
2.0		6/6/9	STP		16		CL	CLAY Pale yellow (2.54 7/4), 0-5% silt, white caliche mottle, moist, no gas odor, occ. open root holes
		15/7/18	STP		20			~19.0 - 22.0' slightly sandy (~5%) with abundant leaching & discoloration
					22			H.T.: SIO
					24			
					26			
					28			
					30			

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PRELIMINARY



LOG OF EXPLORATORY BORING

PROJECT No. 438 SITE - 1E 1-3-89
 CLIENT GC Chew
 LOCATION Livermore
 LOGGED BY GT DRILLER xh

BORING No. C-7
 Sheet 1
 of 2

Field location of boring: trans front

Drilling method 7/2" HS
 Hole dia. 7/2"

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

Ground Elev. Datum +C-7

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.)
					2	CL	
					4		
					6		
					8		
					10	CL	
					12		
2.3		12/4/14	STP		14		
			100%		16		
					18		
					20		
3.0		5/10/18	STP		22		
			100%		24		
					26		

Water level				
Time				
Date				

DESCRIPTION

Asphalt 2' ± of CRS gravel base
 CLAY (Fill) Dk brown to black (5Y2.5/1 - 5Y2.5/3)
 ~5% fine to medium sand, ~10% silt,
 trace fine to coarse
 gravel in dump, no gas odor

CLAY Olive (5Y5/3) 5-10% silt &
 very fine sand, moist to wet,
 strong gas odor

12-16: 30-40% silt & fine sand
 13'-14.5': Thin 1"-2" stringers of clayey fine
 sand - moist, nearly saturated w/ gas

-16.5-22: decrease silt & sand to
 5-10%, heavily oxidized & leached -
 stiff - damp, no gas odor

H.T. = S.E.O.

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PRELIMINARY



LOG OF EXPLORATORY BORING

PROJECT No. 438 ATE 1-3-85
 CLIENT OR Chemon
 LOCATION LIVESTOCK
 LOGGED BY DR DRILLER XD

BORING No C-8
 Sheet 1
 of 1

Field location of boring:

Drilling method 7 1/2" HS
 Hole dia. 7 1/2"

Casing installation data 3" PVC SLOT 2 1/2" 7, DOWN TO SURF, SAND TO 6, BC TO SURF

Ground Elev.

Datum

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.)
					2	CL	Fill
					4	GW	Fill
					6	CL	Fill
					8		
	1.75	5 1/2	STP		10	CL	
					12		
		11	STP		16		
					18		
	4.5	9 1/4	STP		20		
					22		
					24		
					26		
					28		
					30		
					32		
					34		
					36		

Water level			
Time			
Date			

DESCRIPTION

3" approx 4" into gravel box
 CLAY (fill) Grayish brown (2.5Y 4/2), 5-10% fine to coarse sand, 10% silts - damp
 GRAVEL (fill) Grayish brown (2.5Y 4/2) 25-30% medium to coarse SAND, 70-75% fine to medium gravel - damp
 CLAY (fill) DK brown (7.5YR 4/2) ~ 5% fine to medium sand, 5-10% silts, 85% clay, trace gravel - damp use
 CLAY Olive (5Y 5/3) 0-5% fine sand, 5% silts, 90% clay, caliche & Fe oxide mottle - damp use
 44.5' - 23' : clay becomes heavily leached & oxidized, stiff - damp w/ root frags, trace coarse sand

T.H: SIO

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PRELIMINARY



LOG OF EXPLORATORY BORING

PROJECT No. 438 TE 1-3-81
 CLIENT GR Chevron
 LOCATION LIVERMORE
 LOGGED BY GA DRILLER XD

BORING No. C-9
 Sheet
 of

Field location of boring:

Drilling method 7 1/2" HS
 Hole dia. 7 1/2"

Casing installation data 3" PVC SUCT 23-7, BLUNT
TO SURF. SAND TO 6, RE TO SURF

Ground Elev. Datum

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			
								Water level	Time	Date	
					2		CL	CLAY (Fill) Grayish brown (2.54 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 (5% silt) decrease sand (5%)			
					8		CL	CLAY - Olive (5Y5/3), 5-10% silts, 15-20% fine sand, 70-75% clay - Ferrous stain & particles - damp, strong gas odor, trace medium sand			
1.75		5/8/10	ST		10						
					12						
2.0		7/10/13	ST		14						
					16			(decrease silt (~5%) & fine sand (~5%), rootholes moist) (slight gas odor ~17.0-23' : clay became leached & discolored, stiff, damp, no prod odor			
					18						
4.0		8/19/10	ST		20						
					22						
					24			HT : 520.			
					26						
					28						
					30						

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PRELIMINARY



LOG OF EXPLORATORY BORING

PROJECT No. 436-5500 TE 1-3-85
 CLIENT GA Chemco
 LOCATION LIVERMORE
 LOGGED BY EA DRILLER XD

BORING No. C-10
GC-11
 Sheet 11
 of 1

Field location of boring:



Drilling method 7/2" HS Hole dia. 7 1/2"
 Casing installation data 3" PVC SLOT
BLANK TO SURF. SAND TO , PC
TO SURF.

Ground Elev.

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.)
					2		CL
					4		GW
					6		
					8		
					10		
					12		
					14		
					16		
					18		
					20		
					22		
					24		
					26		
					28		
					30		

Water level	Time	Date

DESCRIPTION

3' asphalt & 6" cns gravel by surf

CLAY (Fill) Grayish brown (2.54 4/2), 5-10%
 fine to coarse sand, 10% silt, ~~some structure damp~~

GRAVEL

**BORING TERMINATED - HIT CONCRETE
 BUT DID NOT PENETRATE**

9 - 23' 16/7
 8 - 22 1/2 16/6 1/2
 7 - 22 16/6
 6 - 22 16/6
 4 - 23' 16/7

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PRELIMINARY



LOG OF EXPLORATORY BORING

MODEL

PROJECT No. YSK-56-1 DATE 1-10-80
 CLIENT GR Ch SW
 LOCATION LIVERMORE
 LOGGED BY SR DRILLER XD

C-12
 Sheet
 of

Field location of boring: (W)

Drilling method 7 1/2" HS Hole dia. 7 1/2"

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

Ground Elev. Datum

84

Pocket Torr vane TSF	Pocket Penetrometer TSF	Blowbl. Pressure PSI	Type of Sample	Sample Number	Depth	Sample	Soil Group Symbol (U.S.C.S.)
					2		CL
					4		
					6		
					8		
	2.5	7/8/11	SFC 75% 1"		10		
					12		
		27/49	SFP 100% 12"		14		GW
					16		
		16/31	SFP 0% 12"		18		GC
		14/36	SFP 12"		20		
					22		
					24		
					26		
					28		
					30		
					32		

Water level	Time	Date

DESCRIPTION

Asphalt
 CLAY (Fill) Dk grayish brown (2.5Y 3/2),
 0-5% silt, trace sand & fine
 gravel - damp uco

Light Olive gray (5Y 6/2), 5% fine to
 coarse sand, 5-10% silt, damp,
 no gas odor - iron stained, firm

SANDY GRAVEL, Brown (10YR 4/3) 0-3%
 clay binder, 35-40% fine to
 coarse sand, 55-60% fine to
 coarse gravel - wet uco,
 trace rounded cobble size gravel

CLAYEY GRAVEL - Olive (5Y 5/3), ~15% silty
 clay binder, 20% fine to coarse
 sand, 65% fine to coarse gravel -

B.T.: 810

Pulled augers - hole cased to 18 1/2 ft.
 Pushed casing to 20'

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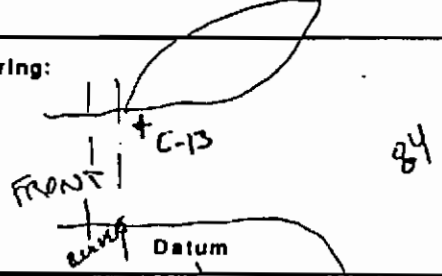
no product order

LOG OF EXPLORATORY BORING

PROJECT No. 438-56.1-ATE 1-10-89
 CLIENT CR Chesapeake
 LOCATION LUSMORE
 LOGGED BY 991 DRILLER XD

BORING No. C-13
 Sheet 1
 of 1

Field location of boring:



Drilling method 7 1/2" HS Hole dia. 7 1/2"

Casing installation data 3" PVC SLOT
~~BLANK TO SURF. JAMP 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 HELIX Sample	Sample Number	Depth	Sample	Soil Group Symbol (U.S.C.S.)
					2		CL
					4		SW
					6		
					8		
					10		
					12		
					14		
					16		
					18		
					20		
					22		
					24		
					26		
					28		
					30		

DESCRIPTION

Asphalt

CLAY (Fill) - Dk brown, 20% fine to coarse sand, trace gravel, damp, no gas odor

GRAVEL SAND - light olive brown (2-5% S/G) 25-30% fine gravel, 70% - 75% fine to coarse gravel, damp, no gas odor

TERMINATED HOLE: HIT CONCRETE UTILITY

PRELIMINARY

DRAFT



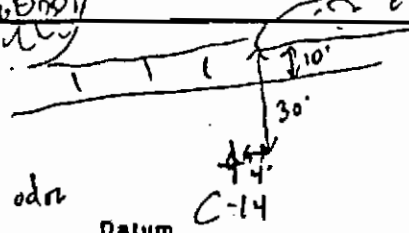
LOG OF EXPLORATORY BORING

Churson

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

BORING No C-14
 Sheet _____ of _____

Field location of boring:



Ground Elev. _____ Datum C-14

Drilling method 7 1/2" HS

Hole dia. 7 1/2"

Casing installation date 10/6 BACKFILLED w/CONCRETE TO 22', 3" PVC SLOT 20-0, BLANK TO SURF. SAND TO 9', BC TO SURF.

Pocket Torrvane TSF	Pocket Penetrometer TSF	Blows/ft. or Pressure PSI	Type of Sample	Sample Number	Depth	Sample	Soil Group Symbol (U.S.C.S.)
					2		CL
					4		
					6		
					8		
					10		SW
					12		
					14		
					16		CL
					18		
					20		
					22		
					24		
					26		
					28		
					30		
					32		
					34		
					36		
					38		

Water level	Time	Date

DESCRIPTION

Asphalt concrete
 SILTY CLAY, Very dark gray (5Y 3/2), 20% silt, firm - damp, upo
 3-4: 10% fine to coarse sand, 10% fine to medium gravel
 6-9: Yellowish brown (10YR 1/4), 10% well graded sand, 35% well graded gravels, well rounded - damp, upo
 GRAVELLY SAND - Brown (7.5YR 5/4), 5% silty clay binder, 25-30% well graded well rounded gravels, 65-70% well graded sand - moist to wet, strong product odor
 CLAY - (5Y 7/4) Pale yellow, 0-5% silt, white caliche discoloration, damp upo
 19': Becomes stiff w/ trace fine sand, upo
 (Trace iron oxide stain & particles)
 Olive (5Y 5/4)
 29.5': Becomes very silty (30-35%) w/ caliche mottle, iron oxide staining, moist to wet

T.H.: SIO

DRAFT

PRELIMINARY



NY 448

MOLE NO. C-16		PROJECT NO.		PROJECT Chewon		SHEET OF 1/2	
MFG. DESIGNATION OF DRILL CME 75				LOCATION 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 Findley		GROUNDWATER DEPTH 20.6' TIME		
	BACKFILLED		CREW Ron & Andy, Oakley				
SURFACE CONDITIONS							

DRAFT

DIST. FROM SURF.	LEGEND	SAMPLE TYPE	SAMPLE NO.	RECOVERY	BLOWS PER 6 IN.	USCS	LOG OF MATERIAL
1						AS	Asphalt 4"
2							SILT, Brown - Little Clay - Little Gravel - 1" rounded - STIFF - Low Plasticity, Moist NOSC.
3							
4							
5							
6							CLAY - Brown, Little Silt Soft, High Plasticity, Moist NOSC
7							
8	SS			2"	2		CLAY - Brown - Little tan Silty Clay - Soft High Plasticity, Moist NOSC Trace fine gravel angular 1/8 to 1/4"
9					3		
10	SS			2"	1		CLAY - Dark Brown - Soft High Plasticity, NOSC Moist Bottom of sampler - Fine Gravel Some sand - 1/8 rounded poorly sorted
11					2		
12							
13	SS			18"	5 6 9		SILTY CLAY - Tan Little Gravel Poorly sorted 1/2" sub rounded, STIFF, Low Plasticity, Moist, NOSC Trace black dry...
14							
15	SS			12	9		Gravelly CLAY - Tan w/ light grey mottling, Gravel and Sand poorly sorted 1/2" rounded Very STIFF - Low Plasticity, Moist NOSC - Little Silt.
16					10 16		
17							
18	SS			18	4 6 9		SILTY CLAY - Tan - Rust staining White Areas 1/2" silt - (Chalky) STIFF - Med to high Plasticity Moist NOSC.
19							
20	SS			18	9		CLAY, SILT, Tan - Rust staining Trace fine gravel & subangular Very STIFF, Medium Plasticity Slightly wet, NOSC
21					6 12		

SAND SAND BENT STAIN
SILTY CLAY



HOLE NO. C-16	PROJECT NO.	PROJECT	SHEET OF 2/2
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MFG. DESIGNATION OF DRILL	LOCATION
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TYPE OF BIT	HAMMER DATA: WT.	LBS. DROP	INCHES	ELEV.	TOTAL DEPTH OF HOLE
DATE	STARTED	DRILLING AGENCY		GROUNDWATER DEPTH	TIME DRAFT
	COMPLETED	INSPECTOR			
	BACKFILLED	CREW			

SURFACE CONDITIONS

DIST. FROM SURF.	LEGEND	SAMPLE TYPE	SAMPLE NO.	RECOVERY	BLOWS PER 6 IN.	USCS	LOG OF MATERIAL
20						V	
1						20.6	
2							
3							
4							
25	SS			18	6		Sandy Silt tan - Fine Sand - Stiff Med. Plasticity - Moist NOSC SAND - tan - Trace fine gravel 1/2" poorly sorted, fine to medium sand Some Silt. Medium Dense, Wet NO SC
6					9		
7					23		
8							
9							
30	SS			18	9		CLAY - Tan - Trace Black Organics Stiff - High Plasticity, Wet NO SC
11					6		
12					9		
13							
14							
35	SS			18	9		SAND - Grey - Very Dense - Wet NO SC Fine to Medium Sand
16					19		
17					37		
18							
19							
20							
21							

Screen
 |||



HOLE NO. C-17	PROJECT NO.	PROJECT Chevron	SHEET OF 1/2
MFD. DESIGNATION OF DRILL CME-75		LOCATION 4707 First St Livermore, CA	
TYPE OF BIT	HAMMER DATA: WT. 140 LBS. DROP 30 INCHES		ELEV.
DATE	STARTED 2:23 - 1-9-83	DRILLING AGENCY Kleinfelder	TOTAL DEPTH OF HOLE 30
COMPLETED 6:00 1-9-83	INSPECTOR E. Findley	GROUNDWATER DEPTH 17.5'	TIME
BACKFILLED	CREW Ron + Penny Oakley		
SURFACE CONDITIONS			

DRAFT

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



MOLE NO. C-17		PROJECT NO.	PROJECT		SHEET OF 2/2
MFO. DESIGNATION OF DRILL			LOCATION		
TYPE OF BIT		HAMMER DATA: WT.	LBS. DROP	INCHES	ELEV.
DATE	STARTED	DRILLING AGENCY		TOTAL DEPTH OF HOLE	
	COMPLETED	INSPECTOR			
	BACKFILLED	CREW			
SURFACE CONDITIONS			GROUNDWATER DEPTH		
			TIME		

DRAFT

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 Dr
1							
2							
3	SS			14	5		CLAY - Tan with White blotting Trace Rust staining, Hard Medium Plasticity, Wet, NOSE
4					10		
5					11		
6							
7							
27							CLAY As Above
8	SS			12	7		SAND Grey - Fine to Medium Grained - Medium Dense, NOSE No Wet
9					12		
10					14		
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							

same screen



GROUNDWATER TECHNOLOGY

Division of Oil Recovery Systems, Inc.

Well Number 18

Drilling Log

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

Location 1st St. & 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 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 to gravel
4					Dark brown silty clay, 20% sand
6					Black clay, 10% silt to small pebbles
8					Brown clay, 10% sand to pebbles
10					Brown clay to pebbles, some gravel (1 inch)
12					Black silty clay to gravel (2 inch)
14		Depth to water 14 ft.			Brown silty clay to gravel
16					Gray silty clay, 30% sand
18					Gray silty clay, some sand
20					
22					
24					
26					
28					
30					
					Screen 29 to 9 ft. Blank 9 to 0 ft. Sand 29 to 7 ft. Bentonite 7 to 6 ft. Cement 6 to 0 ft.



GROUNDWATER TECHNOLOGY

Division of Oil Recovery Systems, Inc.

Well Number 19

Drilling Log

Project Chevron/Livermore Owner Chevron U.S.A.
 Location 1st St. & 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 @ 4-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					
12					Dark brown clay, 5% sand, slight odor
14					
16		Depth to water 14.5 ft.			Light brown silty clay
18					Light brown clay
20					
22					Light brown clay
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.



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/Spill 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 EA

See Site Map
For Boring Location

COMMENTS:

Depth (ft.)	Well Completion	PID (ppm)	Sample ID	Blow Count/ x 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							6" asphalt.
2						CL	Silty CLAY (30,70): dark gray, damp, soft, plastic, no hydrocarbon odor.
4							
6		0	C-20 -6.5'	3 3 3		CL	Silty CLAY (20,80): dark gray, damp, soft, plastic, no hydrocarbon odor.
8							
10		0	C-20 -11.5'	4 4 5		CL/M	(grades silty CLAY (40,60): light olive, trace red and black mottling)
12							
14							
16		0	C-20 -16.5'	9 11 15		GC	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)
18							
20							
22		11	C-20 -21.5'	10 23 23		GW	Clayey sandy GRAVEL (10,30,60): gravel up to 1", angular to round, no hydrocarbon odor.
24						SW	



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		8	C-20 -26.5'		SW CL	Medium to coarse SAND: brown-gray, wet, loose, litharenite, subangular, moderately sorted, no hydrocarbon odor.
26						Clay in sample shoe, wet, no hydrocarbon odor. End of boring. Installed groundwater monitoring well.
28						
30						
32						
34						
36						
38						
40						
42						
44						
46						
48						
50						
52						
54						
56						



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 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/Spilt 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 EPI

See Site Map
For Boring Location

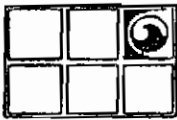
COMMENTS:

Depth (ft.)	Well Completion	PID (ppm)	Sample ID	Blow Count/ x 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		0	C-21 -11.5'	4 4 5		M/CL	Static water, 10/02/95 (some yellow mottling)
12							
14							Encountered water, 10/02/95, 1335 hrs.
16		40	C-21 -16.5'	5 19 20			Sandy GRAVEL (30,70): gravel up to 2", subangular, saturated, loose, no hydrocarbon odor.
18						GW	
20							
22		0	C-21 -21.5'	4 5 7			Sandy silty CLAY (20,20,50): light olive, damp, stiff, plastic, no hydrocarbon odor.
24						CL	



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



GROUND WATER TECHNOLOGY

Division of Oil Recovery Systems, Inc.

Drilling Log

Project Chevron Owner Chevron U.S.A. Well Number RW-1
 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			Asphalt
4"					Silty clay with gravel and sand, some roots
6					Hitting side of concrete? Gravels
7		CEMENT			Moved 8" to the side of concrete pipe
8					Moved, hit water line at 2', moved
10		BENTONITE			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					Gravelly clay and sand
32.5		BOTTOM CAP			Bottom Cased to 32.5'
					15 ppm reading of gas vapors in gravel backfill Odors to the nose