



IT Corporation

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A Member of The IT Group

March 25, 2002

Ms. Julie Wyman
Livermore-Pleasanton Fire Department
4550 East Avenue
Livermore, CA 94550

Shell Oil Products US GRASP Site Report
4530 Las Positas Road, Livermore, California

Dear Ms. Wyman:

Enclosed, please find the site report for the site investigation conducted at 4530 Las Positas Road, Livermore, California, on September 19 and 20, 2001, in association with the Groundwater Assessment Program (GRASP) initiated by Shell Oil Products US (Shell). The purpose of the investigation was to obtain the site data necessary to develop a site conceptual model, including the depth to groundwater, direction of groundwater flow, potential release sources, and the distance to and direction of the nearest water supply well.

Groundwater was encountered at approximately 11-13 feet below ground surface at the site. The direction of groundwater flow based on the groundwater contour map generated from site data is to the northeast. Four monitoring wells (MW-1 through MW-4) were installed during the investigation, as indicated on the attached boring logs/well completion diagrams.

Groundwater grab samples were collected and analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX), and for fuel oxygenates (including methyl-tertiary-butyl ether [MTBE], ethyl tert-butyl ether [ETBE], diisopropyl ether [DIPE], tert butyl alcohol [TBA], tertiary amyl methyl ether [TAME]) by U.S. EPA Method 8260B. As indicated on the attached certified analytical reports, MTBE was detected in the groundwater samples from wells MW-2 and MW-4. No soil samples were collected for analysis.

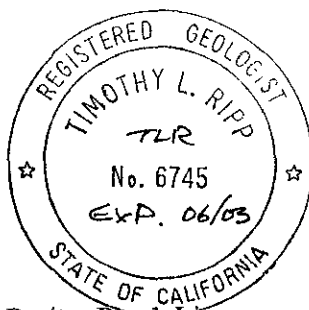
Based on information provided in the "Geotracker" database maintained by the California State Water Resources Control Board, the nearest active water supply well is located 7500 feet southwest of the site (California Water Service Co. Well 17-01 - 03S/02E-09L01 M), as shown on the attached map and printouts from the database.

Please call if you have any questions or comments concerning the enclosed report.

Sincerely,
IT Corporation



Timothy L. Ripp, R.G. 6745
Project Geologist



Enclosure – Site Report – 4530 Las Positas Road, Livermore, California

Distribution

Ms. Isabel Mejia
Shell Oil Products US
2255 N. Ontario Street
Burbank, California 91504

Chuck Headlee
Regional Water Quality Control Board
San Francisco Bay Region
1515 Clay Street, Suite 1400
Oakland, CA 94612

Mr. Scott Seery
Alameda County
Environmental Health Services
1131 Harbor Bay Parkway
Alameda, CA 94502-6577

IT Corporation Project Files – Job No. 830053.00000012

Certification/Disclaimer _____

List of Tables _____

- 1 Summary of Survey and Depth-to-Water Data

List of Figures _____

- 1 Site Location Map
- 2 Site Map
- 3 Groundwater Contour Elevation Map

List of Attachments _____

- Attachment A - Receptor Survey Findings
- Attachment B - Excerpts from Adjacent Facility File Reviews
- Attachment C - Boring Logs/Well Completion Diagrams
- Attachment D - Well Development Information
- Attachment E - Analytical Data for Groundwater Samples
- Attachment F - Well Survey Data
- Attachment G - Permits

Shell Oil Products US GRASP Site Report

LOCATION INFORMATION

SHELL PROJECT MANAGER: **Karen Petryna**
 INCIDENT NUMBER: **97306794**
 SITE ADDRESS: **4530 Las Positas Road**
 CITY / ST / ZIP: **Livermore, CA 94550**

CONSULTANT INFORMATION

CONSULTANT COMPANY: **IT Corporation**
 CONSULTANT ADDRESS **1921 Ringwood Avenue**
 CITY / ST / ZIP: **San Jose, CA 95131**
 CONSULTANT PROJECT NUMBER: **830053.00000012**
 TELEPHONE: 408-**350-5690** FAX: **408-437-9526** E-MAIL: **rbussard@thelgroup.com**
 GEOLOGIST (Print) **Regina Bussard (RMB)**

SITE REVIEW INFORMATION

GSRE/FSI
 Original Post Site Review Post Assessment
 GSRE Score: **none**
 Date: _____
 FSI Score _____ Engineer: _____

GRASP Eligibility Eligible Not eligible, Explain below.

Water Supply Well Information Distance (ft): **807 ft./7,500 ft.** Direction: **SW**
 Data Source/Method: **Equiva DataBase/GeoTracker**

Description: **California Water Service Co. Well 17-01 (03S/02E-09L01 M) residential**

Preliminary Site Conceptual Model Established

Basis (check all that apply and describe each used)

- Site Data _____
- Nearby Site Data **Chevron (500 ft. NE), Texaco (2,286 ft. NE)**
- Regional Data **Zone 7 GW Level Contour Map (Fall 1996)**

Is current and/or available data enough to initiate Tier II? Explain below. Yes No

Fulfilled all aspects of the preliminary site conceptual model with data collected.

Anticipated geology: **CL/silty CL/GW/SW(0'-28'); dense gray SP/SW(>28')**

Anticipated groundwater depth and gradient: **10'-15' bgs; NW**

Comment: _____

Comments

See attached GeoTracker sheets for more water supply well information.

SITE ASSESSMENT INFORMATION

Contractor/Pre-mob Check List

- Discussed anticipated field conditions
- Performed utility clearance
- Discussed safety issues, protocols
- Discussed typical/special conditions
- Checked applicable regulations
- Prepared basemap

Drilling Contractor: **Watermark Drilling for Water Development Corporation**

Geology/Groundwater Hydrogeology (Optional)

Number of: Soil borings: _____ Wells: **4** Cores: _____ Stratigraphy: **L** Predominant geology: **mixed layers (sands and clays)**

Hydrocarbons indicated in soil: No Yes Description: _____

Groundwater depth: **11-13 ft.** Groundwater flow direction: **NE** Is NAPL present? No Yes

Comments: _____

Well Completion Information

Well ID:	MW-1	MW-2	MW-3	MW-4				
Well location (latitude)	37.69917362	37.69880791	37.69900291	37.69936823				
Well location (longitude)	-121.742647	-121.743055	-121.743348	-121.742993				
Total depth	22.5 ft.	22.5 ft.	22.5 ft.	22.5 ft.				
Depth to top of screen	7.5 ft	7.5 ft.	7.5 ft.	7.5 ft				
Depth to bottom of screen	22.5 ft	22.5 ft.	22.5 ft	22.5 ft				
Survey Ref. (TOC/ GS)	TOC	TOC	TOC	TOC				
Survey Ref. Elevation	519.86 ft.	518.50 ft.	518.93 ft.	519.44 ft.				

Groundwater Analytical Information (ug/l)

Well / Borng ID	MW-1	MW-2	MW-3	MW-4				
Date	9/20/01	9/20/01	9/20/01	9/20/01				
Method	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B				
Benzene	ND < 0.50	ND < 0.50	ND < 0.50	ND < 0.50				
Toluene	ND < 0.50	ND < 0.50	ND < 0.50	ND < 0.50				
Ethylbenzene	ND < 0.50	ND < 0.50	ND < 0.50	ND < 0.50				
Xylene	ND < 0.50	ND < 0.50	ND < 0.50	ND < 0.50				
MTBE	ND < 0.50	0.6	ND < 0.50	16				
TAME	ND < 2.0	ND < 2.0	ND < 2.0	ND < 2.0				
DIPE	ND < 2.0	ND < 2.0	ND < 2.0	ND < 2.0				
ETBE	ND < 2.0	ND < 2.0	ND < 2.0	ND < 2.0				
TBA	ND < 50	ND < 50	ND < 50	ND < 50				
Other:								

- Base map attached?
- Field notes attached?
- Electronic file submitted?

Work Start Date: **8/24/01** Completion Date: **9/20/01** Form Submittal Date: _____ Environmental Engineer Signature: _____

CERTIFICATION/DISCLAIMER

CERTIFICATION/DISCLAIMER

This report is intended for the sole and exclusive use of Equiva Services LLC and not for the benefit of others and should not be used or relied upon by others. The findings set forth in this report are limited to those specifically expressed in the report. No other representations or warranties are given by IT Corporation (IT) and no additional conclusions should be reached or representations relied upon other than those expressly stated in the report and as limited by the IT Terms and Conditions.

The statement, opinions, and conclusions presented in this report are based solely on the services performed by IT and its subcontractors, as described in this report, and the scope of work established for the report by the Equiva Services LLC budgetary and time constraints and the terms and conditions of IT's agreement with Equiva Services LLC. In performing these services and preparing this report, IT relied upon work and information provided by others, including public agencies, whose information is not guaranteed by IT.

TABLE

SUMMARY OF SURVEY AND DEPTH-TO-WATER DATA
 Shell-Branded Service Station
 4530 Las Positas Road
 Livermore, California

WELL DESIGNATION	GAUGING DATE	LATITUDE	LONGITUDE	ELEVATION TOC (FT.)	DEPTH TO WATER (FT.)	GW ELEVATION (FT.)
MW-1	12/05/2001	37.69917362	-121.7426473	519.86	12.85	507.01
MW-2	12/05/2001	37.69880791	-121.7430546	518.50	11.61	506.89
MW-3	12/05/2001	37.69900291	-121.7433476	518.93	11.45	507.48
MW-4	12/05/2001	37.69936823	-121.7429935	519.44	13.11	506.33

FIGURES

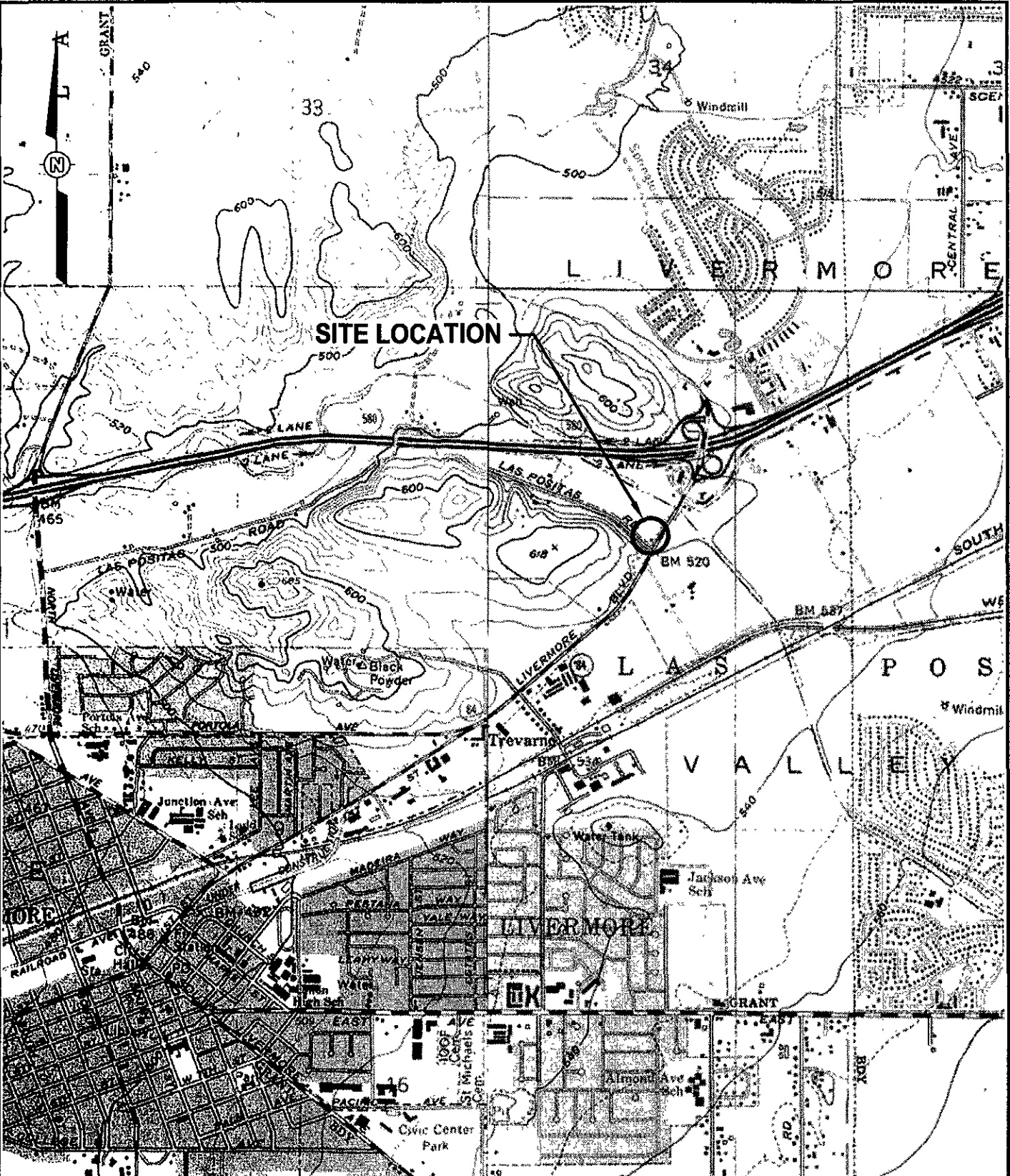
PROJECT NUMBER 830053

APPROVED BY

CHECKED BY

DRAWN BY

K. Block 2-5-02



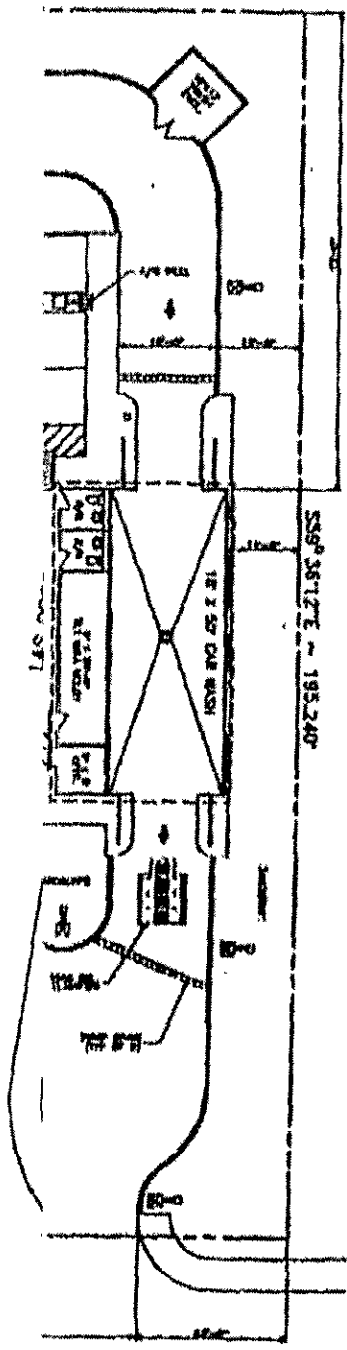
Printed from TOPO! ©2001 National Geographic Holdings (www.topo.com)



SHELL OIL PRODUCTS US

FIGURE 1
SITE LOCATION MAP

4530 LAS POSITAS ROAD
LIVERMORE, CALIFORNIA



LEGEND

⊙ MONITORING WELL

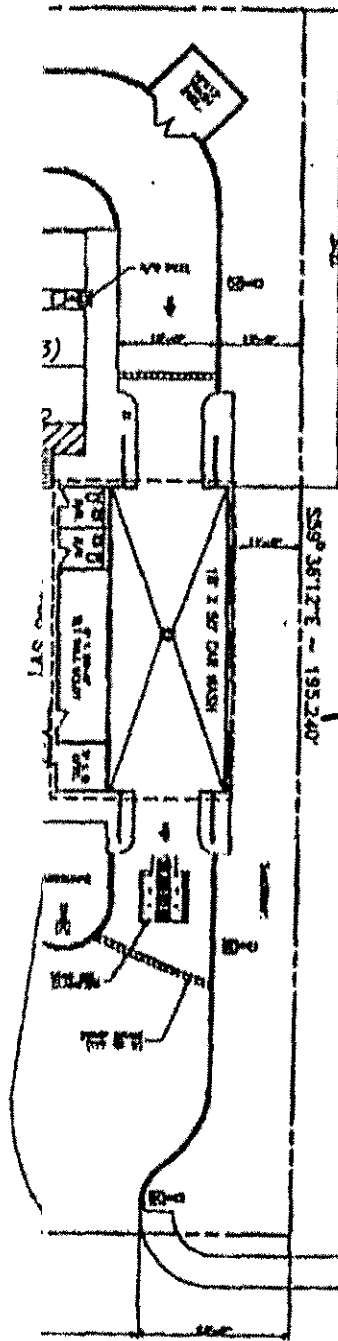
PRELIMINARY
APPROVED: _____

NOTE:
UNDERGROUND STO
INCORRECT AS SHC
LOCATED EAST OF

NOT FOR CONSTRUCTION PURPOSES

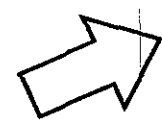
APPROVALS	
DISTRICT MANAGER	DATE
AREA ENGINEER, SUPERVISOR	DATE
INSPECTION	DATE
ENGINEER	DATE

	SHELL OIL COMPANY HOUSTON, TX	
	PL OT PLAN 1-500 & N. FIRST LIVERMORE, CA	
SHELL PROJECT # DATE JOB NO. / SHEET NO.	SHEET NO. OF SHEETS SHEETS TOTAL	WIC



LEGEND

- ⊙ MONITORING WELL
- (28.57) GROUNDWATER ELEVATION (FT.-MSL); MEASURED 12-5-01
- GROUNDWATER ELEVATION CONTOUR (FT.-MSL)



APPROXIMATE DIRECTION OF GROUNDWATER FLOW

APPROXIMATE GRADIENT=0.003

PRELIMINARY
APPROVED: _____

NOTE:

UNDERGROUND STC INCORRECT AS SHC LOCATED EAST OF

NOT FOR CONSTRUCTION PURPOSES

APPROVALS	
DISTRICT MANAGER	DATE
AREA OPER. MANAGER	DATE
ENGINEER	DATE
OWNER	DATE

	SHELL OIL COMPANY HOUSTON, TX
	PLOT PLAN 1-500 & N. FIRST LIVERMORE, CA
DATE PREPARED DATE CHECKED DRAWN BY CHECKED BY	SHEET NO. 1 OF 1 PROJECT NO. 1 WIC # 1111111111

ATTACHMENT A
RECEPTOR SURVEY FINDINGS

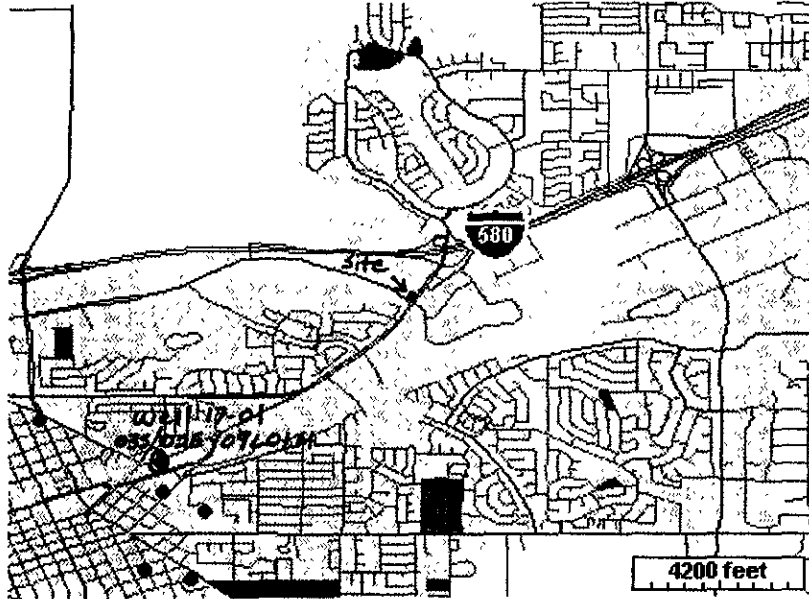


ZoomIn
 ZoomOut
 Pan
 Identify

- Layers
- LUFT Sites
 - UST Sites
 - Public Wells
 - Highways
 - Major Roads
 - Minor Roads
 - USGS Quads
 - Surface Water
 - Watersheds
 - GW Basins
 - Vulnerability

Show sites within of public wells.

Click on the map to perform the selected action.



Map Size:



Street:

City: Zip:

[GeoTracker Home](#) | [Contact Site Administrator](#) | [Road Maps by ETAK](#)

Well and LUFT site positions are approximate. Locational accuracy will improve as state agencies and responsible parties obtain and report new information.

Well Report**CALIFORNIA WATER SERVICE CO (LIVERMORE)****WELL 17-01**State Well Number: 03S/02E-09L01 M - ([Associated GAMA Information](#))[\(Show This Well on Map\)](#)[Well Details](#) | [Geographic Information](#) | [DHS Water Quality Data](#) | [PWS Detailed Information](#)**Local Name**

WELL 17-01 (03S/02E-09L01 M)

Source Origin

Groundwater

Status

Unknown

Treatment Method

No Treatment/Non Applicable

Treatment Phase

Water

12 LUFT Site(s) Estimated to be Within 1/2 Mile Proximity of this Well

- [List These LUFT Sites](#)

[Geotracker Home](#) | [Site/Facility Finder](#) | [Case Finder](#) | [MTBE/Case Reports](#)

Well Report	
CALIFORNIA WATER SERVICE CO (LIVERMORE) WELL 17-01 State Well Number: 03S/02E-09L01 M - (Associated GAMA Information) (Show This Well on Map)	
Well Details Geographic Information DHS Water Quality Data PWS Detailed Information	
<u>Local Name</u> WELL 17-01 (03S/02E-09L01 M)	
<u>Source Origin</u> Groundwater	<u>Status</u> Unknown
<u>Treatment Method</u> No Treatment/Non Applicable	<u>Treatment Phase</u> Water
12 LUFT Site(s) Estimated to be Within 1/2 Mile Proximity of this Well	
• List These LUFT Sites	

Public Water System Information

CALIFORNIA WATER SERVICE CO (LIVERMORE)

WELL 17-01

State Well Number: 03S/02E-09L01 M - ([Associated GAMA Information](#))

([Show This Well on Map](#))

[Well Details](#) | [Geographic Information](#) | [DHS Water Quality Data](#) | [PWS Detailed Information](#)

Public Water System

CALIFORNIA WATER SERVICE CO

Water System Address:

195 S N ST
LIVERMORE, CA 94550-4350

PWS Class:

Community Water System (CWS)

Ownership/Regulation

Ownership:

Private - Investor Owned, Mutual Water Company, Cooperative, Association.

Regulating Entity:

State

Service Area:

Residential Area

Date Entered System:

3/24/1992

System Status:

Active

Deactivation Date:

Last Revised:

4/8/1998

Connection Information

Number of Service Connections:

15792

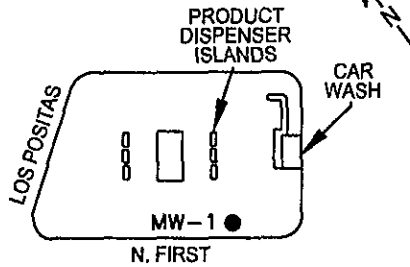
Population Served:

53540

- [List all wells for this Public Water System](#)

[Geotracker Home](#) | [Site/Facility Finder](#) | [Case Finder](#) | [MTBE/Case Reports](#)

ATTACHMENT C
BORING LOGS/WELL COMPLETION DIAGRAMS



PROJECT NO: 830053
 LOGGED BY: RMB
 DRILLER: WDC
 DRILLING METHOD: HSA
 SAMPLING METHOD: CAL MOD
 CASING TYPE: SCH 40 PVC
 SLOT SIZE: 0.02"
 GRAVEL PACK: NO.3

CLIENT: EQUIVA
 DATE DRILLED: 9-19-01
 LOCATION: 4530 LOS POSITAS RD.
 HOLE DIAMETER: 8"
 HOLE DEPTH: 22.5'
 WELL DIAMETER: 2"
 WELL DEPTH: 22.5'
 CASING STICKUP: NA

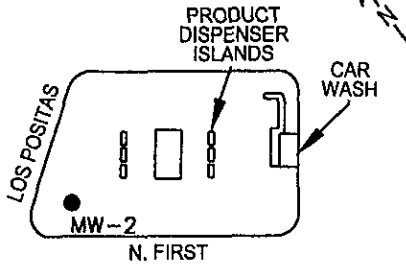
LOCATION MAP

WELL COMPLETION	PRODUCT ODOR	MOISTURE CONTENT	PENETRATION (BLOWS/ 6')	DEPTH (FEET)	RECOVERY SAMPLE INTERVAL	GRAPHIC	SOIL TYPE	LITHOLOGY/REMARKS
	No	Dmp	0.0	2			CL	Asphalt
	No	Dmp	0.0	2			CL	Base Rock
	No	Dmp	0.0	2			CL	SILTY SANDY CLAY: medium brown; low plasticity; 10-15% fine sand; 20% medium sand; 10% coarse sand; trace to 10% fine gravel
	No	Dmp	0.0	3			CL	CLAY: dark gray; low plasticity; 15-20% medium sand; trace to 10% coarse sand
	No	Dmp	0.0	4			SP	SAND: light yellow-brown; trace fines; 85-90% fine to medium sand; 10-15% coarse sand (possibly fill sand)
	No	Dmp	0.0	4			CL	As above; dark gray; sand content decreases slightly; soft
	No	Dmp	0.0	3				
	No	Dmp	0.0	3				
	No	Dmp	0.0	3			CL	SANDY CLAY: olive-brown with gray mottling; low plasticity; 20-25% fine sand; trace coarse sand; soft to firm
	No	Dmp	0.0	3				
	No	Dmp	0.0	5				
	No	Dmp	0.0	8				
	No	Dmp	0.0	14			SC	CLAYEY SAND: light brown; 45% fines; 30% medium to fine sand; 15-20% coarse sand; trace to 10% fine gravel; medium dense
	No	Dmp	0.0	16				
	No	Dmp	0.0	17				
	No	Mst	0.0	19				
	No	Mst	0.0	3			CL	SANDY CLAY: olive-gray-brown; low plasticity; 35% fine to medium sand; trace to 10% coarse sand; trace fine gravel; firm
	No	Mst	0.0	4				
	No	Mst	0.0	6				
	No	Mst	0.0	8				
	No	Wet	0.0	12				
	No	Wet	0.0	14			SW	SAND: yellow-brown; 5-10% fines; 35% medium sand; 30% coarse sand; 20% fine sand; 15% fine gravel; trace coarse gravel; loose to medium dense
	No	Sat	0.0	6				
	No	Sat	0.0	12				
	No	Sat	0.0	14				
	No	Sat	0.0	12			SC	CLAYEY SAND: dark brown-gray; 20% fines; 30% medium sand; 20-25% coarse sand; trace to 10% fine gravel; trace coarse gravel; 15-20% fine sand; loose to medium dense
	No	Sat	0.0	14				
	No	Dmp	0.0	9				
	No	Dmp	0.0	12				
	No	Dmp	0.0	22			CL	SANDY CLAY: olive-gray-brown; low plasticity; 10-20% fine sand; trace coarse sand to fine gravel; firm to stiff
	No	Wet	0.0	6				
	No	Mst	0.0	6				
	No	Mst	0.0	8				
	No	Mst	0.0	5				
	No	Mst	0.0	6				
	No	Mst	0.0	9				
	No	Mst	0.0	11				
	No	Mst	0.0	5				
	No	Mst	0.0	5				
	No	Mst	0.0	7				
	No	Mst	0.0	6				
	No	Mst	0.0	12				



PROJECT NO: 830053
 LOGGED BY: RMB
 DRILLER: WDC
 DRILLING METHOD: HSA
 SAMPLING METHOD: CAL MOD
 CASING TYPE: SCH 40 PVC
 SLOT SIZE: 0.02"
 GRAVEL PACK: NO.3

CLIENT: EQUIVA
 DATE DRILLED: 9-19-01
 LOCATION: 4530 LOS POSITAS RD.
 HOLE DIAMETER: 8"
 HOLE DEPTH: 22.5'
 WELL DIAMETER: 2"
 WELL DEPTH: 22.5'
 CASING STICKUP: NA



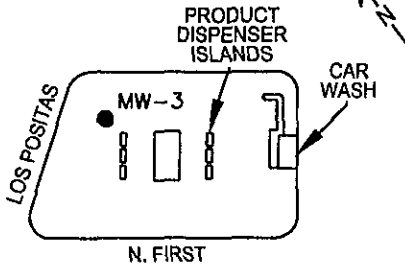
LOCATION MAP

WELL COMPLETION	PRODUCT ODOR	MOISTURE CONTENT	PENETRATION (BLOWS/6')	DEPTH (FEET)	RECOVERY SAMPLE INTERVAL	GRAPHIC	SOIL TYPE	LITHOLOGY/REMARKS
								Asphalt
								Base Rock
	No	Dmp	0.0	2			CL	SILTY SANDY CLAY: medium brown; low plasticity; 10-15% fine sand; 20% medium sand; 10% coarse sand; trace to 10% fine gravel
	No	Dmp	0.0	4			CL	CLAY: dark gray; low plasticity; 15-20% medium sand; trace to 10% coarse sand
	No	Dmp	0.0	4			CL	SANDY CLAY: olive-gray-brown; low plasticity; 5-10% medium sand; 15-20% fine sand; trace coarse sand; trace fine gravel; firm
	No	Dmp	0.0	6			SC	CLAYEY SAND: light brown; 45% fines; 30% medium to fine sand; 15-20% coarse sand; trace to 10% fine gravel; medium dense
	No	Dmp	0.0	6			CL	SILTY CLAY: light to medium brown with some gray mottling; low plasticity; 10-15% fine sand; trace to 10% medium sand; trace coarse sand; firm
	No	Dmp	0.0	8			CL	As above; a little grayer
	No	Dmp	0.0	5			CL	As above; a little grayer
	No	Dmp	0.0	6			CL	As above; a little grayer
	No	Dmp	0.0	8			CL	As above; a little grayer
	No	Sat	0.0	16			SC	CLAYEY SAND: gray to light brown; 25-30% fines; 10-15% fine gravel; 40% medium to fine sand; 20% coarse sand; trace coarse gravel; medium dense
	No	Sat	0.0	22			CL	SANDY CLAY: olive gray-brown; low plasticity; 10-20% fine sand; trace coarse sand to fine gravel
	No	Sat	0.0	28			CL	SANDY CLAY: olive gray-brown; low plasticity; 10-20% fine sand; trace coarse sand to fine gravel



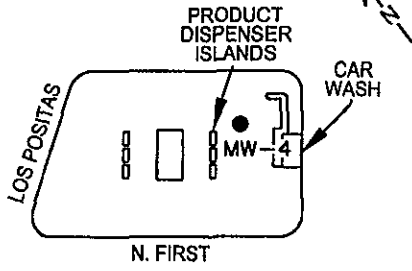
PROJECT NO: 830053
 LOGGED BY: RMB
 DRILLER: WDC
 DRILLING METHOD: HSA
 SAMPLING METHOD: CAL MOD
 CASING TYPE: SCH 40 PVC
 SLOT SIZE: 0.02"
 GRAVEL PACK: NO.3

CLIENT: EQUIVA
 DATE DRILLED: 9-20-01
 LOCATION: 4530 LOS POSITAS RD.
 HOLE DIAMETER: 8"
 HOLE DEPTH: 22.5'
 WELL DIAMETER: 2"
 WELL DEPTH: 22.5'
 CASING STICKUP: NA



LOCATION MAP

WELL COMPLETION	PRODUCT ODOR	MOISTURE CONTENT	PENETRATION (BLOWS/ 6')	DEPTH (FEET)	RECOVERY SAMPLE INTERVAL	GRAPHIC	SOIL TYPE	LITHOLOGY/REMARKS
				2			CL	Asphalt Back Fill
	No	Dmp	0.0	2			CL	SILTY SANDY CLAY: medium brown; low plasticity; 30-35% sand; trace to 10% fine gravel
	No	Dmp	0.0	4			CL	CLAY: dark gray; low plasticity; 15-20% medium sand; trace to 10% coarse sand
	No	Dmp	0.0	10			CL	SANDY CLAY: olive-gray-brown; low plasticity; 5-10% medium sand; 15-20% fine sand; trace coarse sand to fine gravel
	No	Dmp	0.0	10			SC	CLAYEY SAND: light gray-brown; 25-30% fines; 35% fine to medium sand; 20-25% coarse sand; 10-15% fine gravel; trace coarse gravel; loose
	No	Dmp	0.0	17				
	No	Dmp	0.0	18			SC	CLAYEY SAND: medium to dark gray-brown; 20% fines; 30-35% coarse sand; 25% medium to fine sand; 15-20% fine gravel; trace to 10% coarse gravel; medium dense
	No	Dmp	0.0	20				
	No	Mst	0.0	4			CL	CLAY: light olive-gray-brown; low plasticity; 5-15% fine sand; trace coarse sand to fine gravel; firm to stiff
	No	Mst	0.0	6				
	No	Mst	0.0	7				
				16				
				18				
	No	Mst	0.0	4			CL	As above
	No	Mst	0.0	6				
	No	Mst	0.0	10				
				20				
				22				



PROJECT NO: 830053
 LOGGED BY: RMB
 DRILLER: WDC
 DRILLING METHOD: HSA
 SAMPLING METHOD: CAL MOD
 CASING TYPE: SCH 40 PVC
 SLOT SIZE: 0.02"
 GRAVEL PACK: NO.3

CLIENT: EQUIVA
 DATE DRILLED: 9-20-01
 LOCATION: 4530 LOS POSITAS RD.
 HOLE DIAMETER: 8"
 HOLE DEPTH: 22.5'
 WELL DIAMETER: 2"
 WELL DEPTH: 22.5'
 CASING STICKUP: NA

LOCATION MAP

WELL COMPLETION	PRODUCT ODOR	MOISTURE CONTENT	PENETRATION (BLOWS/6")	DEPTH (FEET)	RECOVERY SAMPLE INTERVAL	GRAPHIC	SOIL TYPE	LITHOLOGY/REMARKS
				0				Asphalt
				0				Back Fill (Water seeping out of fill)
				2			CL	SILTY SANDY CLAY: medium brown; low plasticity; 10-15% fine sand; 20% medium sand; 10% coarse sand; trace to 10% fine gravel
				4			CL	CLAY: dark gray; low plasticity; 15-20% medium sand; trace to 10% coarse sand; soft to firm
	No	Dmp/Mst	0.0	2				
	No	Dmp/Mst	0.0	4				
	No	Dmp/Mst	0.0	5				
				6				
				8			CL	SILTY SANDY CLAY: olive-gray-brown; low plasticity; 15-20% fine sand; trace to 10% medium sand; trace coarse sand to fine gravel
	No	Mst	0.0	8				
	No	Mst	0.0	10				
	No	Mst	0.0	10				
				12			SC	CLAYEY SAND: medium to dark gray-brown; low plasticity; 20% fines; 30-35% coarse sand; 25% medium to fine sand; 15-20% fine gravel; trace to 10% coarse gravel
	No	Wet	0.0	14				
	No	Wet	0.0	14				
	No	Wet	0.0	14				
				16			SP	SAND: medium yellow-brown; 5-10% fines; 65% medium sand; 30-35% fine sand; trace to 10% coarse sand; trace fine gravel
				18				
	No	Wet	0.0	20			SP	As above
	No	Wet	0.0	20				
	No	Wet	0.0	20				
				22				

ATTACHMENT D
WELL DEVELOPMENT INFORMATION


WELL DEVELOPMENT DATA SHEET

Project#: 830053
 Site Address: 4530
LAS POSITAS RD
LIVERMORE

Well #: MW-1
 DTW (feet): 1285 (TOC) 1315 (TOB)
 DTL (feet): (TOC) (TOB)
 Purge Vol (10 Casings): 15.81 (gal)

Development Method Used: 2"
SURGE Block
 DATE: 12501

Time		Depth		Gallons		Measurements				Comments: (odor, clarity, grain size, etc.) activity
begin	end	to water	to bottom	pumped	total	pH	cond	temp	turbity	
11:50	11:54	1285	2215	4	3.16	589	1780	68.0	2200	Brown heavy silt Mud No odor
	11:58	1290				586	1770	67.2	2200	Brown heavy silt Mud No odor
	12:02	1485				571	1770	68.2	2200	Brown heavy silt Mud No odor
	12:07	1300		20.	20	574	1780	68.3	2200	Brown heavy silt Mud No odor
	12:11	1380	2235	2000	2000	575	1790	68.9	2200	Brown heavy silt Mud No odor

Completed by:  date: 12501

WELL DEVELOPMENT DATA SHEET

Project#: 830053 Well #: MW-2 Development Method Used: 2"
 Site Address: 4530 DTW (feet): 1161 (TOC) 1197 (TOB) SURGE Block
LAS POSITAS RD DTL (feet): (TOC) (TOB)
LIVERMORE Purge Vol (10 Casings): 1500 (gal) DATE: 12/50/

Time		Depth		Gallons		Measurements				Comments: (odor, clarity, grain size, etc.) activity
begin	end	to water	to bottom	pumped	total	pH	cond	temp	turbity	
12:16	12:20	1161	2075	4	300	6.34	1610	650	2000	Brown heavy silt heavy NO odor
12:24	15:35					6.30	1630	668	2000	Brown heavy silt heavy NO odor
12:29	16:40					6.19	1600	68.1	2000	Brown heavy silt heavy NO odor
12:33	17:20					6.17	1620	68.6	2000	Brown heavy silt heavy NO odor
12:37	14:80			2000	2000	6.20	1600	68.9	2000	Brown heavy silt heavy NO odor
	13:70	2080								

Completed by: [Signature] date: 12/50/

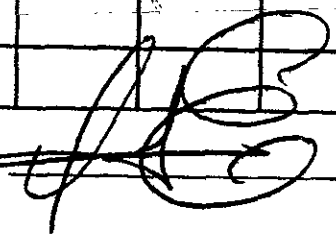
WELL DEVELOPMENT DATA SHEET

Project#: 830053
 Site Address: 4530
Las Positas Rd
LIVERMORE

Well #: MW-3
 DTW (feet): 11.45 (TOC) 1188 (TOB)
 DTL (feet): _____ (TOC) _____ (TOB)
 Purge Vol (10 Casings): 1640 (gal)

Development Method Used: 2"
SURGE Block
DATE: 12501

Time		Depth		Gallons		Measurements				Comments: (odor, clarity, grain size, etc.) activity
begin	end	to water	to bottom	pumped	total	pH	cond	temp	turbidity	
12:39	12:43	11.45	21.10	35	328	609	1690	65.9	2000	Bowl Heavy silt Heavy No Odor
	12:47	16.35	↓	↓	↓	609	1710	66.0	2000	Bowl Heavy silt Heavy No Odor
	12:52	17.20	↓	↓	↓	6.11	1740	67.2	2000	Bowl Heavy silt Heavy No Odor
	12:56	18.80	↓	↓	↓	609	1780	68.2	2000	Bowl Heavy silt Heavy No Odor
	13:00	17.80	↓	17.5	175	6.12	1760	68.1	2000	Bowl Heavy silt Heavy No Odor
		20.21	20.22							

Completed by  date: 12501

WELL DEVELOPMENT DATA SHEET

Project#: 830053
 Site Address: 4530
LAS POSITAS RD
LIVERMORE

Well #: MW-4
 DTW (feet): 13.11 (TOC) 13.57 (TOB)
 DTL (feet): _____ (TOC) _____ (TOB)
 Purge Vol (10 Casings): 14.43 (gal)

Development Method Used: 2"
SURGE BLOCK
 DATE: 12-5-01

Time		Depth		Gallons		Measurements				Comments: (odor, clarity, grain size, etc.) activity
begin	end	to water	to bottom	pumped	total	pH	cond	temp	turbidity	
13:01	13:08	13.11	2160	275	288	6.35	1750	63.6	2200	Ben/Henry silt Heavy Noodor
	13:11	16.90	↓	↓		6.31	1780	63.8	2000	Ben/Henry silt Heavy Noodor
	13:15	17.80	↓	↓		6.28	2110	64.9	2200	Ben/Henry silt Heavy Noodor
	13:20	19.20	↓	↓		6.33	2210	65.2	2200	Ben/Henry silt Heavy Noodor
	13:24	17.50	2260	13.75	13.75	6.31	2220	65.4	2200	Ben/Henry silt Heavy Noodor

Completed by: [Signature] date: 12-5-01

ATTACHMENT E
ANALYTICAL DATA FOR GROUNDWATER SAMPLES



Report Number : 22561

Date : 10/9/2001

Regina Bussard
IT Corporation
1921 Ringwood Avenue
San Jose CA 95131

Subject : 4 Water Samples
Project Name : 4530 Las Positas Avenue Livermore, CA
Project Number : 830053-00000012
P.O. Number : 97306794

Dear Ms. Bussard,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,



Joel Kiff



Report Number : 22561

Date : 10/9/2001

Project Name : 4530 Las Positas Avenue Livermore, CA

Project Number : 830053-00000012

Sample : MW-1

Matrix : Water

Lab Number : 22561-01

Sample Date : 9/20/2001

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	10/4/2001
Toluene	< 0.50	0.50	ug/L	EPA 8260B	10/4/2001
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	10/4/2001
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	10/4/2001
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	10/4/2001
Diisopropyl ether (DIPE)	< 2.0	2.0	ug/L	EPA 8260B	10/4/2001
Ethyl-t-butyl ether (ETBE)	< 2.0	2.0	ug/L	EPA 8260B	10/4/2001
Tert-amyl methyl ether (TAME)	< 2.0	2.0	ug/L	EPA 8260B	10/4/2001
Tert-Butanol	< 50	50	ug/L	EPA 8260B	10/4/2001
Toluene - dB (Surr)	98.9		% Recovery	EPA 8260B	10/4/2001
4-Bromofluorobenzene (Surr)	96.8		% Recovery	EPA 8260B	10/4/2001

Approved By:  Joel Kiff



Report Number : 22561

Date : 10/9/2001

Project Name : 4530 Las Positas Avenue Livermore, CA

Project Number : 830053-00000012

Sample : MW-2

Matrix : Water

Lab Number : 22561-02

Sample Date :9/20/2001

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	10/3/2001
Toluene	< 0.50	0.50	ug/L	EPA 8260B	10/3/2001
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	10/3/2001
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	10/3/2001
Methyl-t-butyl ether (MTBE)	0.60	0.50	ug/L	EPA 8260B	10/3/2001
Diisopropyl ether (DIPE)	< 2.0	2.0	ug/L	EPA 8260B	10/3/2001
Ethyl-t-butyl ether (ETBE)	< 2.0	2.0	ug/L	EPA 8260B	10/3/2001
Tert-amyl methyl ether (TAME)	< 2.0	2.0	ug/L	EPA 8260B	10/3/2001
Tert-Butanol	< 50	50	ug/L	EPA 8260B	10/3/2001
Toluene - d8 (Surr)	105		% Recovery	EPA 8260B	10/3/2001
4-Bromofluorobenzene (Surr)	97.1		% Recovery	EPA 8260B	10/3/2001

Approved By:  Joel Kiff



Report Number : 22561

Date : 10/9/2001

Project Name : 4530 Las Positas Avenue Livermore, CA

Project Number : 830053-00000012

Sample : MW-3

Matrix : Water

Lab Number : 22561-03

Sample Date :9/20/2001

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	10/4/2001
Toluene	< 0.50	0.50	ug/L	EPA 8260B	10/4/2001
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	10/4/2001
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	10/4/2001
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	10/4/2001
Diisopropyl ether (DIPE)	< 2.0	2.0	ug/L	EPA 8260B	10/4/2001
Ethyl-t-butyl ether (ETBE)	< 2.0	2.0	ug/L	EPA 8260B	10/4/2001
Tert-amyl methyl ether (TAME)	< 2.0	2.0	ug/L	EPA 8260B	10/4/2001
Tert-Butanol	< 50	50	ug/L	EPA 8260B	10/4/2001
Toluene - d8 (Surr)	99.4		% Recovery	EPA 8260B	10/4/2001
4-Bromofluorobenzene (Surr)	90.8		% Recovery	EPA 8260B	10/4/2001

Approved By:  Joel Kiff



Report Number : 22561

Date : 10/9/2001

Project Name : 4530 Las Positas Avenue Livermore, CA

Project Number : 830053-00000012

Sample : MW-4

Matrix : Water

Lab Number : 22561-04

Sample Date :9/20/2001

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	10/4/2001
Toluene	< 0.50	0.50	ug/L	EPA 8260B	10/4/2001
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	10/4/2001
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	10/4/2001
Methyl-t-butyl ether (MTBE)	16	0.50	ug/L	EPA 8260B	10/4/2001
Diisopropyl ether (DIPE)	< 2.0	2.0	ug/L	EPA 8260B	10/4/2001
Ethyl-t-butyl ether (ETBE)	< 2.0	2.0	ug/L	EPA 8260B	10/4/2001
Tert-amyl methyl ether (TAME)	< 2.0	2.0	ug/L	EPA 8260B	10/4/2001
Tert-Butanol	< 50	50	ug/L	EPA 8260B	10/4/2001
Toluene - d8 (Surr)	98.7		% Recovery	EPA 8260B	10/4/2001
4-Bromofluorobenzene (Surr)	100		% Recovery	EPA 8260B	10/4/2001

Approved By:  Joel Kiff

Report Number : 22561

Date : 10/9/2001

Project Name : **4530 Las Positas Avenue**

Project Number : **830053-00000012**

22561 Quality Control Data - Method Blank

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	10/3/2001
Toluene	< 0.50	0.50	ug/L	EPA 8260B	10/3/2001
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	10/3/2001
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	10/3/2001
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	10/3/2001
Diisopropyl ether (DIPE)	< 2.0	2.0	ug/L	EPA 8260B	10/3/2001
Ethyl-t-butyl ether (ETBE)	< 2.0	2.0	ug/L	EPA 8260B	10/3/2001
Tert-amyl methyl ether (TAME)	< 2.0	2.0	ug/L	EPA 8260B	10/3/2001
Tert-Butanol	< 50	50	ug/L	EPA 8260B	10/3/2001
Toluene - d8 (Surr)	105		% Recovery	EPA 8260B	10/3/2001
4-Bromofluorobenzene (Surr)	97.6		% Recovery	EPA 8260B	10/3/2001

Approved By:  Joel Kiff

Report Number : 22561

Date : 10/9/2001

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : **4530 Las Positas Avenue**

Project Number : **830053-00000012**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Spike Recovery Data														
Benzene	22554-03	12	40.0	40.0	53.0	52.4	ug/L	EPA 8260B	10/4/2001102	101	1.31	70-130	25	
Toluene	22554-03	<0.50	40.0	40.0	42.8	42.3	ug/L	EPA 8260B	10/4/2001107	106	1.10	70-130	25	
Tert-Butanol	22554-03	<5.0	200	200	193	195	ug/L	EPA 8260B	10/4/200196.5	97.4	0.933	70-130	25	
Methyl-t-Butyl Ether	22554-03	1.0	40.0	40.0	47.4	47.4	ug/L	EPA 8260B	10/4/2001116	116	0.216	70-130	25	

KIFF ANALYTICAL, LLC

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

Approved By:  Joel Kiff

Report Number : 22561

Date : 10/9/2001

QC Report : Laboratory Control Sample (LCS)

Project Name : **4530 Las Positas Avenue**

Project Number : **830053-00000012**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	40.0	ug/L	EPA 8260B	10/3/2001	99.8	70-130
Toluene	40.0	ug/L	EPA 8260B	10/3/2001	110	70-130
Tert-Butanol	200	ug/L	EPA 8260B	10/3/2001	101	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	10/3/2001	104	70-130

KIFF ANALYTICAL, LLC

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

Approved By:  Joel Kiff

720 Olive Drive, Suite D
Davis, CA 95616

(530) 297-4800 (530) 297-4803 fax

Equiva Project Manager to be invoiced: LD 0924017470
22514
22561
Karen Petryna

SCIENCE & ENGINEERING
 TECHNICAL SERVICES
 CRMT HOUSTON

INCIDENT NUMBER (SEE ONLY):
97306794
SAP or CRMT NUMBER (S/C/RMT):

DATE: 9-22-01
PAGE: 1 of 1

CONSULTANT COMPANY: IT Corporation
ADDRESS: 1921 Ringwood Avenue
CITY: San Jose, CA 95131
TELEPHONE: 408-453-7300 FAX: 408-437-9526 E-MAIL: rbussard@hitgroup.com
SITE ADDRESS (Street and City): 4530 Las Positas Avenue Livermore, CA
PROJECT CONTACT (Report to): Regina Bussard CONSULTANT PROJECT NO: 830053-0000012
SAMPLER NAME(S) (P/N): Regina Bussard (RMB) LAB USE ONLY:

TURNAROUND TIME (BUSINESS DAYS):
 10 DAYS 5 DAYS 72 HOURS 48 HOURS 24 HOURS LESS THAN 24 HOURS
 LA - RWQCB REPORT FORMAT LIST AGENCY: _____
GC/MS MTBE CONFIRMATION: HIGHEST _____ HIGHEST per BORING _____ ALL _____
SPECIAL INSTRUCTIONS OR NOTES: _____ TEMPERATURE ON RECEIPT C° _____

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING		MATRIX	NO. OF CONT.	TPH - Purgeable (8260B)	BTEX (8260B)	MTBE (5ppb RL)	MTBE (0.5ppb RL)	5 Oxy's (8260B)	1,2-DCA / EDB (8260B)	Vol Halocarbons (8260B)	Ethanol / Methanol (8260B)	TPH - Diesel (8015)	Metals (Specify)	TRPH (418.1)	Vapor VOCs BTEX / MTBE (TO-16)	Vapor VOCs Full List (TO-16)	Vapor TPH (ASTM 3416m)	Vapor Fixed Gases (ASTM D1946)	Test for Disposal (4B-)	FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes	
		DATE	TIME																				
	MW-1	9/22/01	17:10	W	3	✓				✓													01
	MW-2		17:40							✓													02
	MW-3		18:30							✓													03
	MW-4		18:15							✓													04

Relinquished by: (Signature) [Signature] Received by: (Signature) Storage Date: 9-22-01 Time: 21:15
Relinquished by: (Signature) _____ Received by: (Signature) _____ Date: _____ Time: _____
Relinquished by: (Signature) _____ Received by: (Signature) [Signature] KIFF Date: 092401 Time: 1120

**ATTACHMENT F
WELL SURVEY DATA**



Mid Coast Engineers

Civil Engineers and Land Surveyors

70 Penny Lane, Suite A - Watsonville, CA 95076

phone: (831) 724-2580

fax: (831) 724-8025

e-mail: lv@mce1.com

Richard A. Wadsworth
Civil Engineer

Stanley O. Nielsen
Land Surveyor

Lee D. Vaage
Land Surveyor

Jeff S. Nielsen
Land Surveyor

March 11, 2002

Regina Bussard
IT Corporation
1921 Ringwood Avenue
San Jose, CA 95131

Re: **Shell, 4530 Las Positas Road (I-580 & N. First), Livermore, California; SAP 135444,**
MCE Job No. 02071

Dear Ms. Bussard,

As you requested, on January 17, we surveyed four new monitoring wells located at the referenced site. Our findings are listed on the attached sheets, expressed in State Plane Coordinates and Latitude/Longitude.

A notch was cut in the north rim of the PVC casing (TOC) and a cross chiseled in the north rim of the box (TOB).

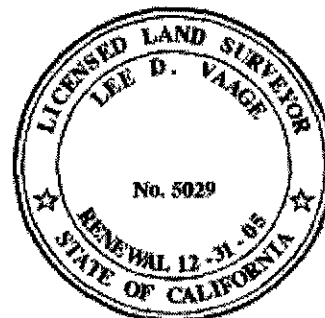
Measurements were obtained from conventional survey techniques in combination with GPS techniques (Code CGPS), using control points AA3815 (HPGN D CA 04 FK) and AA3816 (HPGN D CA 04 FL) as published by NGS/NOAA, and listed on their web site. Latitude and Longitude as shown were determined from the California Coordinate System, Zone 3, NAD 83 Datum. The accuracy range of the reported information is +/- 5mm. GPS equipment is the Trimble 5700 system (Code T57).

The benchmark is City of Livermore No. 2K-23B, a monument disk on Las Positas Road, approximately 300' west of First Street. Elevation = 518.861 feet, NGVD 29.

Please let me know if you have questions or need additional information.

Yours truly,


Lee D. Vaage



SHELL

4530 Las Positas Road (I-580 & N. First)

Livermore, California

IT GRASP SAP 135444

Project : 02071

User name MCE Date & Time 1:40:42 PM 3/11/02

Coordinate System US State Plane 1983 Zone California Zone 3 0403

Project Datum NAD 1983 (Conus)

Vertical Datum NGVD 29

Coordinate Units US survey feet

Distance Units US survey feet

Elevation Units US survey feet

Point listing

Name	Northing	Easting	Elevation	Description
114	2079302.39	6202039.33	518.50	MW2toc
115	2079302.65	6202039.50	518.86	MW2tob
116	2079433.97	6202158.93	519.86	MW1toc
117	2079434.15	6202159.09	520.20	MW1tob
118	2079506.16	6202059.73	519.44	MW4toc
119	2079506.36	6202059.85	519.89	MW4tob
133	2079374.51	6201955.51	518.93	MW3toc
134	2079374.61	6201955.63	519.37	MW3tob
132	2079347.57	6201819.46	518.86	BM

SHELL

**4530 Las Positas Road (I-580 & N. First)
Livermore, California**

IT GRASP SAP 135444

Project : 02071

User name MCE Date & Time 1:40:42 PM 3/11/02
Coordinate System US State Plane 1983 Zone California Zone 3 0403
Project Datum NAD 1983 (Conus)
Vertical Datum NGVD 29
Coordinate Units US survey feet
Distance Units US survey feet
Elevation Units US survey feet

Point listing

Name	Latitude	Longitude	Elevation	Description
114	37.698807908°N	121.743054619°W	518.50	MW2toc
115	37.698808645°N	121.743054053°W	518.86	MW2tob
116	37.699173616°N	121.742647331°W	519.86	MW1toc
117	37.699174124°N	121.742646782°W	520.20	MW1tob
118	37.699368227°N	121.742993478°W	519.44	MW4toc
119	37.699368776°N	121.742993055°W	519.89	MW4tob
133	37.699002912°N	121.743347639°W	518.93	MW3toc
134	37.699003183°N	121.743347230°W	519.37	MW3tob
132	37.698923950°N	121.743816590°W	518.86	BM

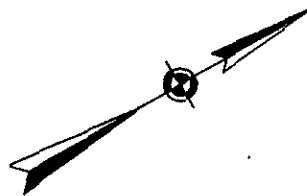
LAS POSITAS ROAD

⊕ MW-3

⊕ MW-2

COORDINATES ARE BASED ON THE CALIFORNIA
 STATE PLANE SYSTEM, ZONE III, NAD 83.
 BENCHMARK IS CITY OF LIVERMORE 2K-23B,
 CENTER POINT ON LAS POSITAS ROAD,
 APPROXIMATELY 300' WEST OF FIRST STREET.
 ELEVATION = 518.861, NGVD '29.
 DRAWN AT THE REQUEST OF THE IT GROUP
 IN MARCH 2002, SAP 135444.

STATIONING AT M PVC (TOC)	EASTING AT NORTH RIM PVC (TOC)	ELEVATION AT NORTH RIM PVC (TOC)	ELEVATION AT NORTH RIM BOX (TOB)
13.97	6202158.93	519.86	520.20
12.39	6202039.33	518.50	518.86
14.51	6201955.51	518.93	519.37
16.16	6202059.73	519.44	519.89

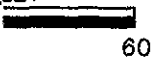


MONITORING WELL LOCATION

SHELL STATIC

4530 Las Positas
 Livermore, California

FEET



SCALE: 1" = 30'

JOB NO. 02071

DATE: MAR. 11, 2002

SHEET: 1 OF 1

ATTACHMENT G
PERMITS



ZONE 7 WATER AGENCY

5997 PARKSIDE DRIVE PLEASANTON, CALIFORNIA 94588-5127

VOICE (925) 484-2600 X235
FAX (925) 462-3914

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

FOR OFFICE USE

LOCATION OF PROJECT 4530 Las Positas Road
at N. First
Livermore, CA 94550-9604

California Coordinates Source _____ ft. Accuracy _____ ft.
CCN _____ ft. CCE _____ ft.
APN 99-256-8

CLIENT
Name Equiva Services LLC
Address P.O. Box 7869 Phone 925-706-1559
City Burbank, CA Zip 91510-7869

APPLICANT
Name ET Corporation
Regina Bustard Fax 408-437-9526
Address 1931 Ringwood Ave Phone 408-453-7300
City San Jose, CA Zip 95131

TYPE OF PROJECT
Well Construction Geotechnical Investigation
Cathodic Protection General
Water Supply Contamination
Monitoring Well Destruction

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

DRILLING METHOD:
Mud Rotary Air Rotary Auger
Cable Other

DRILLER'S LICENSE NO. 283326

WELL PROJECTS
Drill Hole Diameter 8 in. Maximum _____
Casing Diameter 2 in. Depth 30 ft.
Surface Seal Depth 0.5-1 ft. Number 4 (HW-1-MW-4)

GEOTECHNICAL PROJECTS
Number of Borings 4 Maximum _____
Hole Diameter 8 in. Depth 20-30 ft.

ESTIMATED STARTING DATE 9-10-01 ESTIMATED
COMPLETION DATE _____

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

APPLICANT'S
SIGNATURE Regina Bustard Date 8/23/01

PERMIT NUMBER 21159
WELL NUMBER 3S/2E 3L6 to 3L9
APN 99 0021 018 00

PERMIT CONDITIONS

Circled Permit Requirements Apply

- A. GENERAL**
 1. A permit application should be submitted so as to arrive at the Zone 7 office five days prior to proposed starting date.
 2. Submit to Zone 7 within 60 days after completion of permitted work the original Department of Water Resources Water Well Drillers Report or equivalent for well projects, or drilling logs and location sketch for geotechnical projects
 3. Permit is void if project not begun within 90 days of approval date.
- B. WATER SUPPLY WELLS**
 1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
 2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved.
 3. An access port at least 0.5 inches in diameter is required on the wellhead for water level measurements.
 4. A sample port is required on the discharge pipe near the wellhead.
- C. GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS**
 1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
 2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.
- D. GEOTECHNICAL.** Backfill bore hole with compacted cuttings or heavy bentonite and upper two feet with compacted material. In areas of known or suspected contamination, tremied cement grout shall be used in place of compacted cuttings.
- E. CATHODIC.** Fill hole above anode zone with concrete placed by tremie.
- F. WELL DESTRUCTION.** See attached
- G. SPECIAL CONDITIONS**

Approved Wyman Hong Date 8/28/01

8/6/99

ATTACHMENT B
EXCERPTS FROM ADJACENT FACILITY FILE REVIEWS

It was postulated that the product may be intersecting and migrating within the backfill of this drainage culvert. Under this assumption and considering the southwesterly groundwater gradient direction, a recovery well was installed adjacent to the drainage culvert on the north corner of the Mobil Station property. The well location and the immediate installation of the recovery system was requested by Chevron to provide recovery of the free product and reduce the potential for further migration.

SETTING

The Chevron site is located in the north central portion of the Livermore Valley on the eastern outskirts of the San Francisco Bay Area. The site lies at an elevation of approximately 520 feet above mean sea level. Slope gradients across the property are approximately 2 percent, with the direction of slope being southerly towards the Arroyo Las Positas, the principal stream in the study area.

SOILS AND LOCAL GEOLOGY

The Livermore Valley is approximately 13 miles long in an east-west direction and 4 miles wide. The Chevron site lies in the north central portion of the valley and is in the Mocho groundwater subbasin II as defined by the California Department of Water Resources (DWR). The Mocho subbasin is bounded on the east by the Telsa^{sl} fault and the west by the M^ocho Fault. Although the Telsa^{sl} fault is located less than 1/4 mile east of the site, DWR data indicated that the fault does not effect movement in the shallow groundwater system (See cross section C-C' Figure 3).

Unconsolidated alluvial deposits of upper Pleistocene and recent age, underlie the site to a depth of about 28 feet. These soils consist of silty clays, sands and gravels which in turn overlie the Tassajara Formation sediments. The Tassajara, as shown on Figure 4, Geologic Map, also forms the hills to the west of the site. The variability in soil types (clay to gravels) encountered in the stratigraphic sequence is likely the result of fluvial deposition from the nearby stream. Below approximately 28 feet, a very dense, gray sand (sandstone) is encountered (Monitoring Wells C-16 and C-17). This contact is interpreted to represent the interface between the valley alluvium and rock types from the Tassajara formation which outcrops to the west of the site. Exposures of the Pliocene Tassajara Formation are described as beds of sandstone, tuffaceous sandstone, shale, and limestone by DWR. The rocks of this formation are prevalent throughout the northern part of Livermore Valley.

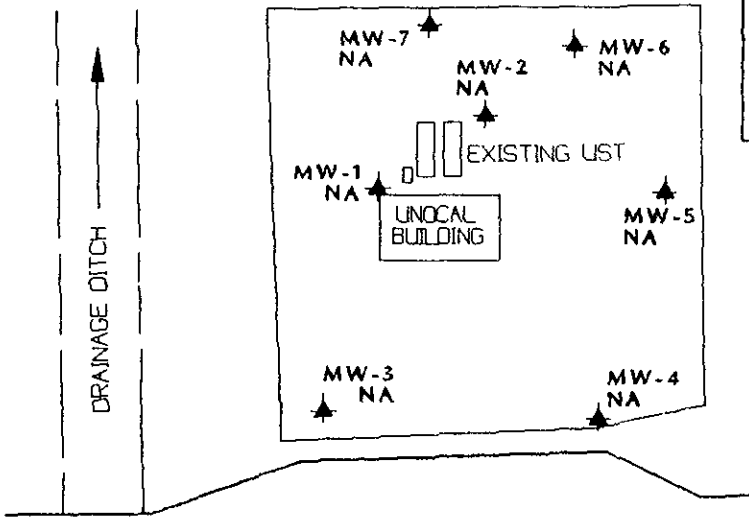
HYDROGEOLOGY

Groundwater is present at the site at a depth of approximately 13 feet below the ground surface. Monitoring data indicates the shallow water table aquifer flow direction is southwesterly under a gradient of approximately 0.7 percent.

Groundwater in the Livermore area is utilized extensively. The valley alluvium is the primary supplier of the groundwater to wells. However, most of the wells in the area use groundwater in confined zones considerably deeper than the unconfined near-surface waters tapped at the study site. The locations of wells within a 1/2 mile radius of the property are plotted on Figure 5, Well Location Map. The well location points at the project site represent the existing monitoring wells.

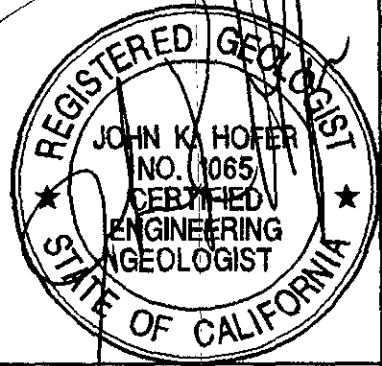
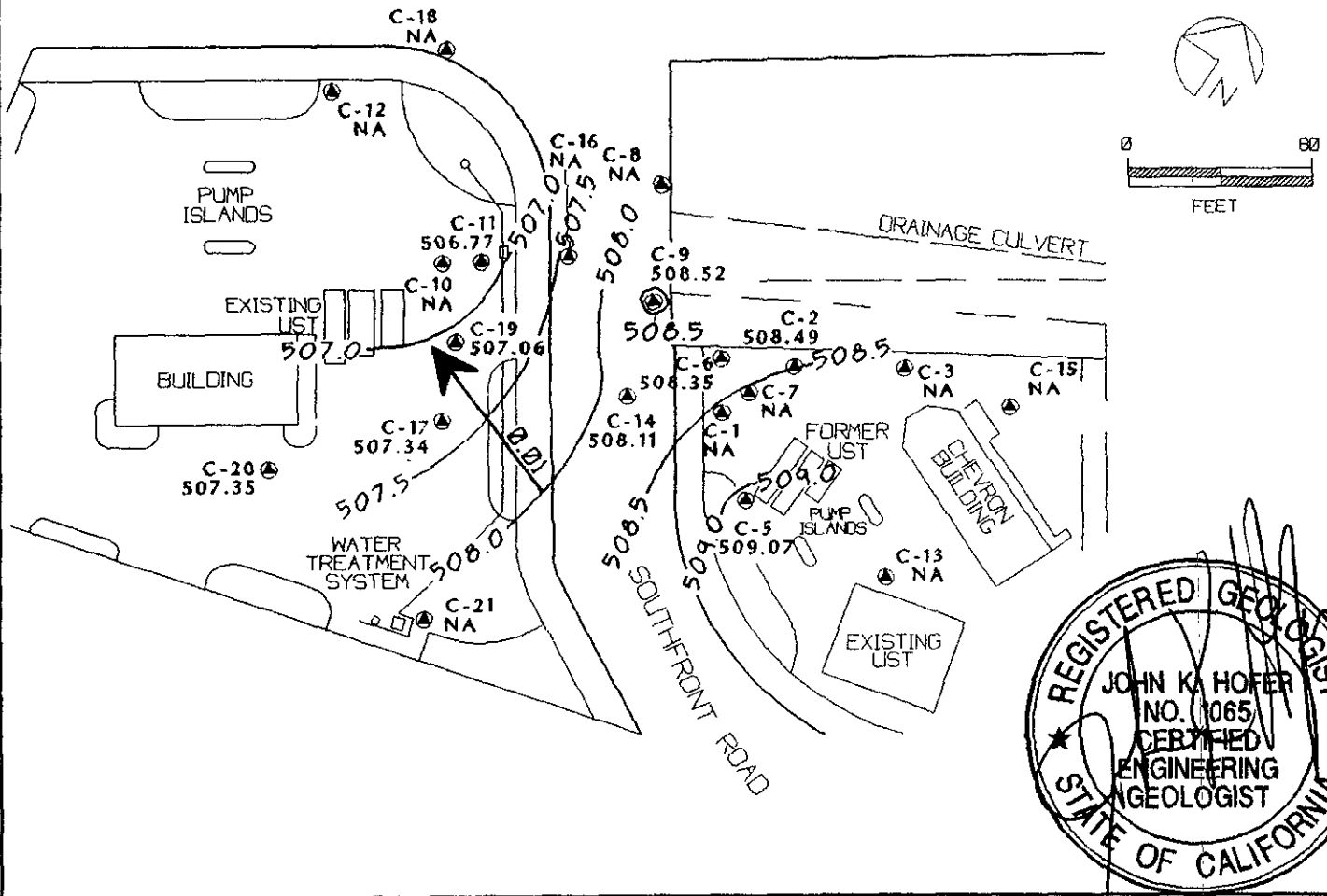
EXPLANATION

- C-2 CHEVRON MONITORING WELL LOCATION AND WELL NUMBER
- ▲ MW-5 UNOCAL MONITORING WELL LOCATION AND WELL NUMBER
- 508.49 GROUND-WATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL
- NA DATA NOT AVAILABLE
- 507.0 GROUND-WATER ELEVATION CONTOUR IN FEET ABOVE MEAN SEA LEVEL
- 0.01 → APPROXIMATE DIRECTION OF GROUND-WATER FLOW GRADIENT INDICATED IN FEET / FEET

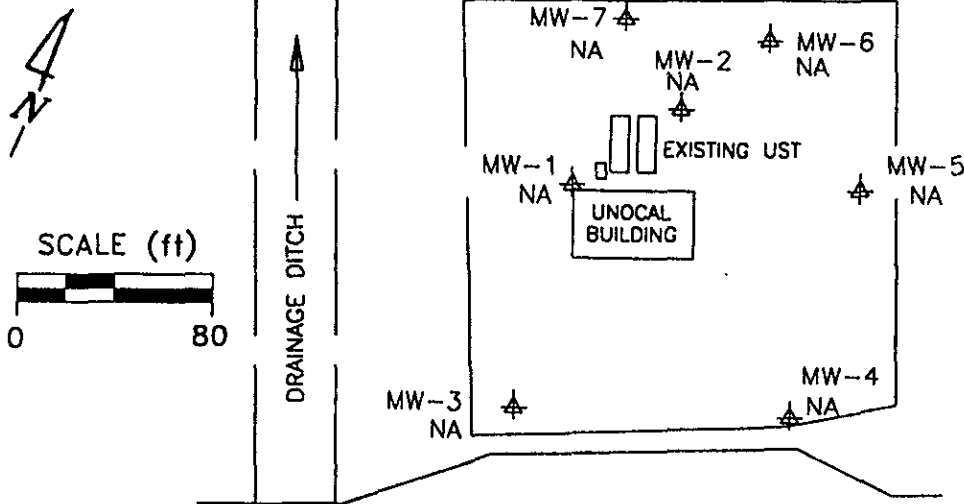


FIRST STREET

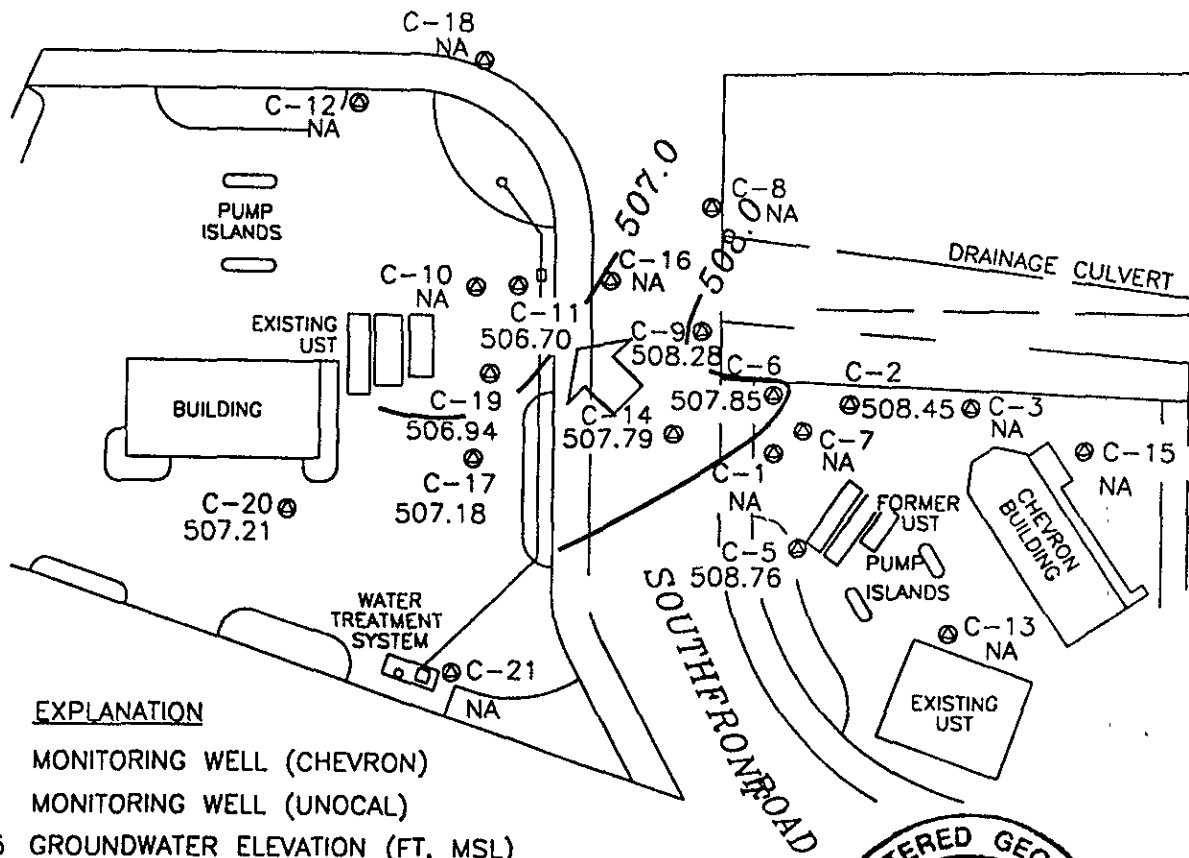
FIRST STREET



<p>TITLE · GROUND-WATER ELEVATION CONTOUR MAP - APRIL 10, 1997</p> <p>LOCATION · CHEVRON SERVICE STATION No.: 9-1924 4904 SOUTHFRONT ROAD LIVERMORE, CALIFORNIA</p> <p>SOURCE · CAMBRIA ENVIRONMENTAL TECHNOLOGY, INC</p>		<p>GEOCONSULTANTS, INC SAN JOSE, CALIFORNIA Project No. G758-09</p> <p><small>DRAWING NO. CHEVRON/ND-191924/V024/097</small></p>
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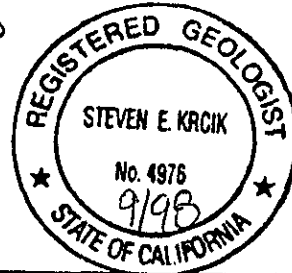


FIRST STREET



EXPLANATION

- ⊙ MONITORING WELL (CHEVRON)
- ⊕ MONITORING WELL (UNOCAL)
- 508.45 GROUNDWATER ELEVATION (FT. MSL)
- 508.0 — GROUNDWATER ELEVATION CONTOUR (FT. MSL)
- NA DATA NOT AVAILABLE
- ↗ APPROXIMATE GROUNDWATER FLOW DIRECTION;
APPROXIMATE GRADIENT = 0.01



Basemap from Geoconsultants, Inc.

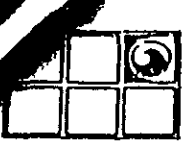
PREPARED BY

RRM
engineering contracting firm

Chevron Station 9-1924
4904 Southfront Road
Livermore, California

GROUNDWATER ELEVATION CONTOUR MAP,
OCTOBER 20, 1997

FIGURE:
1
PROJECT:
DAC04



GROUNDWATER TECHNOLOGY

Division of Oil Recovery Systems, Inc.

Well Number 18

Drilling Log

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

Sketch Map

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

Notes

Driller Gary Taggart Log by R. Juncal

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					Dark brown clay, 5% sand, slight odor
12					
14		Depth to water 14.5 ft.			Light brown silty clay
16					Light brown clay
18					Light brown clay
20					
22					Same.
24					
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.



GROUND WATER TECHNOLOGY

Division of Oil Recovery Systems, Inc.

Drilling Log

Project Chevron Well Number RW-1
 Owner Chevron U.S.A.
 Location Livermore Project Number 20-3229
 Date Drilled 1/16/85 Total Depth of Hole 32' Diameter 24"
 Surface Elevation _____ Water Level, Initial ~13.5' 24-hrs. _____
 Screen: Dia. 12" Length 30' Slot Size .020
 Casing: Dia. 12" Length 5' Type PVC
 Drilling Company Malcolm Drilling Method Auger/ Bucket
 Driller Rip/Bill Log by C. Harper

Sketch Map
 On Mobil property
 Northwest corner

Notes

Depth (Feet)	Well Construction	Notes	Sample Number	Graphic Log	Description/Soil Classification (Color, Texture, Structures)
0		Vault			Asphalt
4					Silty clay with gravel and sand, some roots
6					flitting 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

Drilling Log

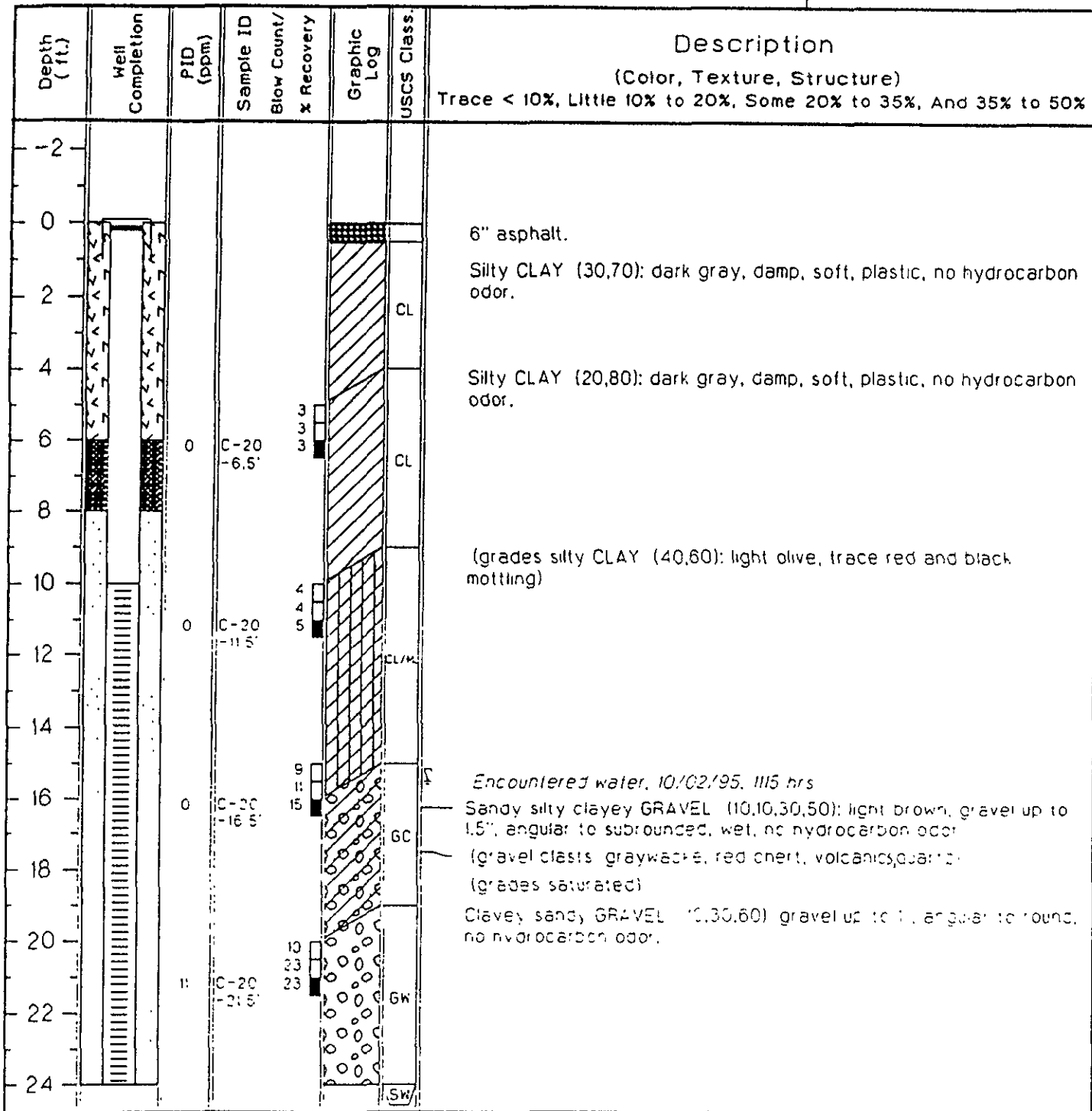
**GROUNDWATER
TECHNOLOGY**

Monitoring Well **C-20**

Project Chevron - Livermore Owner Chevron USA Products Company
 Location 4904 South Front Street, Livermore, CA Proj. No. 02070 0004
 Surface Elev. _____ Total Hole Depth 26.5 ft. Diameter 8.25 in.
 Top of Casing _____ Water Level Initial 15.5 ft. Static _____
 Screen: Dia 2 in. Length 15 ft. Type/Size 0.020 in
 Casing: Dia 2 in. Length 10 ft. Type Sch 40 PVC
 Fill Material #3 Monterey Sand/Neat Cement Rig/Core CME-55/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 EL

See Site Map
For Boring Location

COMMENTS.



Drilling Log

GROUNDWATER
TECHNOLOGY

Monitoring Well C-20

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

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		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						

Drilling Log

**GROUNDWATER
TECHNOLOGY**

Monitoring Well C-21

Project Chevron - Livermore Owner Chevron USA Products Company
 Location 4904 South Front Street, Livermore, CA Proj. No. 02070 0004
 Surface Elev. _____ Total Hole Depth 26.5 ft. Diameter 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/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 *EJ*

See Site Map
For Boring Location

COMMENTS:


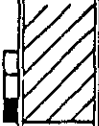

Depth (ft.)	Well Completion	PID (ppm)	Sample ID	Blow Count/ x Recovery	Graphic Log	USCS Class.	Description (Color, Texture, Structure)
							Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50%
-2							
0						SC	6" asphalt over base course.
2						CL	Silty CLAY (15,85): black, very plastic, soft, damp, no hydrocarbon odor.
4							
6		0	C-21 -6.5'	3 4 5			Clayey SILT (40,60): olive, damp, soft, no hydrocarbon odor.
8							
10		0	C-21 -11.5'	4 4 5			Static water, 10/02/95 (some yellow mottling)
12							
14							Encountered water, 10/02/95, 1335 hrs
16		40	C-21 -15.5'	15 20		Sw	Sandy GRAVEL (30,70): gravel up to 2", subangular, saturated, loose, no hydrocarbon odor.
18							
20							
22		0	C-21 -21.5'	7 5 4		CL	Sandy silty CLAY (20,20,60) light olive, damp, stiff, plastic, no hydrocarbon odor.
24							

Drilling Log

**GROUNDWATER
TECHNOLOGY**

Monitoring Well C-21

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

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					CL	Sandy silty CLAY (20,30,50): yellow brown, damp, soft, slight plastic, no hydrocarbon odor.
26		0	C-21 -26.5'			End of boring. Installed groundwater monitoring well.
28						
30						
32						
34						
36						
38						
40						
42						
44						
46						
48						
50						
52						
54						
56						

Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Analytical results are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	Notes	TPH- Gasoline	Benzene	Toluene	Ethyl- Benzene	Xylene	MTBE	TOG	1,2- DCA	VC	MC 1,1,1- TCA	1,1- DCA	PCE	Total Lead	Diss. Lead	CDS
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	2100	--	--	--	--	--	--	--	--	--	--
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	--	3200	220	11	62	130	--	--	--	--	--	--	--	--	--	--
01/01/89	520.39	507.50	12.89	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
01/12/89	520.39	--	--	--	4000	820	43	490	260	--	--	--	--	--	--	--	--	--	--
04/10/89	520.39	506.74	13.65	--	4000	100	ND	70	50	--	ND	ND	--	--	--	--	--	--	--
04/10/89	520.39	506.74	13.65	--	4000	100	ND	60	50	--	ND	ND	--	--	--	--	--	--	--
06/26/89	520.39	506.45	13.94	--	600	97	20	60	50	--	ND	3.0	--	--	--	--	--	--	--
06/26/89	520.39	506.45	13.94	--	570	86	15	44	35	--	--	1.7	--	--	--	--	--	--	--
10/13/89	520.39	506.47	13.92	--	1600	64	ND	51	48	--	ND	ND	--	--	--	--	--	--	--
01/03/90	520.39	506.59	13.80	--	1100	36	0.68	30	30	--	--	1.0	--	--	--	--	--	--	5.0
05/08/90	520.39	506.48	13.91	--	1300	37	9.2	40	32	--	--	1.2	--	ND	--	ND	--	--	--
09/29/90	520.39	506.46	13.93	--	350	19	1.2	32	31	--	--	ND	--	0.7	1.4	ND	--	--	--
01/03/91	520.39	506.54	13.85	--	400	12	ND	17	14	--	--	ND	--	ND	ND	ND	ND	--	--
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	--	1000	12	0.8	31	31	--	--	ND	--	ND	ND	ND	ND	--	--
07/28/92	520.39	506.46	13.93	--	4200	47	110	96	260	--	--	--	--	--	--	--	--	--	--
10/16/92	520.39	505.94	14.45	--	1800	11	ND	32	55	--	--	--	--	--	--	--	--	--	--
01/14/93	520.39	509.16	11.23	--	2000	24	ND	98	62	--	--	--	--	--	--	--	--	--	--
03/26/93	520.39	509.45	10.94	--	4400	21	12	120	100	--	--	--	--	--	--	--	--	--	--
04/22/93	520.39	504.14	16.25	Sheen	18000	26	44	580	330	--	--	--	--	--	--	--	--	--	--
07/20,21/93	520.39	505.10	15.29	--	7100	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	--	2900	13	10	130	60	--	--	--	--	--	--	--	--	--	--
04/21/94	520.39	506.93	13.46	--	1400	8.8	7.8	82	34	--	--	--	--	--	--	--	--	--	--
07/21,22/94	520.39	506.93	13.46	--	800	4.7	2.7	34	13	--	--	--	--	--	--	--	--	ND	--
01/18/95	520.39	508.67	11.72	--	2000	18	10	130	10	--	--	--	--	--	--	--	--	--	--
04/17/95	520.39	508.58	11.81	--	2500	13	1.9	33	4.3	--	--	--	--	--	--	--	--	--	--
07/18/95	520.39	508.27	12.12	--	1100	<10	<10	27	<10	--	--	--	--	--	--	--	--	--	--
10/17/95	520.39	507.81	12.58	--	2000	13	<5.0	24	<5.0	6400	--	--	--	--	--	--	--	--	--
01/18/96	520.39	509.07	11.32	--	<2000	35	30	<20	23	6600	--	--	--	--	--	--	--	--	--
04/17/96	520.39	509.52	10.87	--	<1000	31	<10	<10	<10	<50	--	--	--	--	--	--	--	--	--
07/16/96	520.39	509.01	11.38	--	830	15	<5.0	13	<5.0	9000	--	--	--	--	--	--	--	--	--
10/16/96	520.39	508.58	11.81	--	<5000	<50	<50	<50	<50	6300	--	--	--	--	--	--	--	--	--

NO LONGER MONITORED OR SAMPLED

Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Analytical results are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	Notes	TPH- Gasoline	Benzene	Toluene	Ethyl- Benzene	Xylene	MTBE	TOG	1,2- DCA	VC	MC	1,1,1- TCA	1,1- DCA	PCE	Total Lead	Diss. Lead	...
C-2																				
03/28/86	520.76	508.78	11.98	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
03/15/88	520.76	506.99	13.77	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
05/10/88	520.76	506.73	14.03	--	22,000	3900	1900	1200	1200	--	--	--	--	--	--	--	--	--	--	--
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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
01/01/89	520.76	507.93	12.83	--	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	--
01/12/89	520.76	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
04/10/89	520.76	506.72	14.04	--	1000	25	3.0	83	59	--	--	--	--	--	--	--	--	--	--	--
04/10/89	520.76	506.72	14.04	--	600	2.5	ND	15	12	--	ND	ND	--	--	--	--	--	--	--	--
06/26/89	520.76	506.42	14.34	--	ND	ND	ND	11	11	--	--	ND	--	--	--	--	--	--	--	--
06/26/89	520.76	506.42	14.34	--	640	5.3	8.0	18	14	--	ND	ND	--	--	--	--	--	--	--	--
10/13/89	520.76	506.84	13.92	--	750	3.7	0.6	13	8.2	--	--	2.0	--	--	--	--	--	--	--	--
01/03/90	520.76	506.65	14.11	--	630	ND	ND	17	10	--	--	ND	--	--	--	--	--	--	--	--
05/08/90	520.76	506.48	14.28	--	880	3	ND	19	17	--	--	1.0	--	--	--	--	--	--	--	--
09/29/90	520.76	506.51	14.25	--	340	1.3	2.7	8.4	11	--	--	1.1	--	ND	--	ND	--	--	--	--
01/03/91	520.76	506.61	14.15	--	74	ND	ND	4.6	1.8	--	--	ND	--	ND	0.5	ND	--	--	--	--
04/12/91	520.76	506.90	13.86	--	2000	270	ND	79	93	--	--	ND	--	ND	ND	ND	ND	--	--	--
09/04/91	520.76	506.26	14.50	--	--	--	--	--	--	--	--	--	--	--	--	--	ND	--	--	--
04/06/92	520.76	507.29	13.47	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07/28/92	520.76	506.41	14.35	--	1200	ND	ND	54	6.1	--	--	ND	--	ND	ND	ND	ND	--	--	--
10/16/92	520.76	505.92	14.84	--	1000	5.2	2.9	26	16	--	--	--	--	--	--	--	--	--	--	--
01/14/93	520.76	509.54	11.22	--	2000	ND	2.2	20	10	--	--	--	--	--	--	--	--	--	--	--
03/26/93	520.76	509.99	10.77	--	1800	49	50	31	29	--	--	--	--	--	--	--	--	--	--	--
04/22/93	520.76	507.83	12.93	--	820	15	12	14	6.0	--	--	--	--	--	--	--	--	--	--	--
07/20,21/93	520.76	504.74	16.02	--	2000	12	12	28	29	--	--	--	--	--	--	--	--	--	--	--
10/20/93	520.76	506.92	13.84	--	1100	28	8.0	4.0	4.0	--	--	--	--	--	--	--	--	--	--	--
01/20/94	520.76	507.16	13.60	--	1600	140	18	22	27	--	--	--	--	--	--	--	--	--	--	--
04/21/94	520.76	506.66	14.10	--	760	36	3.0	7.0	3.0	--	--	--	--	--	--	--	--	--	--	--
07/21,22/94	520.76	506.93	13.83	--	430	23	2.8	6.8	6.8	--	--	--	--	--	--	--	--	--	--	--
01/18/95	520.76	508.94	11.82	--	1200	10	2.8	5.2	5.3	--	--	--	--	--	--	--	--	--	ND	--
04/17/95	520.76	508.72	12.04	--	640	1.0	<0.5	5.7	7.7	--	--	--	--	--	--	--	--	--	--	--
07/18/95	520.76	508.34	12.42	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--	--	--	--
10/17/95	520.76	507.97	12.79	--	81	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--	--	--	--
01/18/96	520.76	509.18	11.58	--	390	<0.5	<0.5	1.2	1.2	14	--	--	--	--	--	--	--	--	--	--
04/17/96	520.76	509.49	11.27	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	--	--	--	--	--	--	--
07/16/96	520.76	508.81	11.95	--	62	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	--	--	--	--	--	--	--
10/16/96	520.76	508.36	12.40	--	370	2.1	1.5	3.1	3.9	47	--	--	--	--	--	--	--	--	--	--
04/10/97	520.76	508.49	12.27	--	460	2.4	1.3	1.8	1.9	200	--	--	--	--	--	--	--	--	--	--
10/20/97	520.76	508.45	12.31	Sampled annually	480	0.63	<0.5	<0.5	<0.5	15	--	--	--	--	--	--	--	--	--	--

Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Analytical results are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	Notes	TPH- Benzene Gasoline	Toluene	Ethyl- Benzene	Xylene	MTBE	TOG	1,2- DCA	VC	MC 1,1,1- TCA	1,1- DCA	PCE	Total Lead	Lead
C-3					--	--	--	--	--	--	--	--	--	--	--	--	--
03/28/86	521.31	509.07	12.24	--	--	--	--	--	--	--	--	--	--	--	--	--	--
03/15/88	521.31	507.10	14.21	--	2100	86	8.0	30	36	--	--	--	--	--	--	--	--
05/10/88	521.31	506.88	14.43	--	--	--	--	--	--	--	--	--	--	--	--	--	--
06/10/88	521.31	505.78	15.53	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07/25/88	521.31	507.09	14.22	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10/13/88	521.31	507.21	14.10	--	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
01/01/89	521.31	508.61	12.70	--	--	--	--	--	--	--	--	--	--	--	--	--	--
04/10/89	521.31	506.95	14.36	--	200	2.1	ND	4.4	2.6	--	ND	1.4	--	--	--	--	--
06/26/89	521.31	506.57	14.74	--	260	1.1	0.7	4.9	1.6	--	ND	1.5	--	--	--	--	--
10/13/89	521.31	506.61	14.70	--	ND	ND	ND	ND	ND	--	--	ND	--	--	--	--	--
01/03/90	521.31	506.89	14.42	--	ND	ND	ND	0.9	1.4	--	--	0.7	--	ND	--	ND	--
05/08/90	521.31	506.66	14.65	--	ND	ND	ND	ND	ND	--	--	ND	--	1.1	1.6	ND	--
09/27/90	521.31	506.64	14.67	--	71	ND	1.0	ND	ND	--	--	ND	--	ND	ND	ND	ND
01/03/91	521.31	506.73	14.58	--	57	ND	ND	ND	ND	--	--	ND	--	ND	ND	ND	ND
04/12/91	521.31	507.08	14.23	--	98	ND	ND	1.6	ND	--	--	ND	--	ND	ND	ND	ND
09/04/91	521.31	506.43	14.88	--	64	ND	ND	ND	ND	--	--	ND	--	ND	ND	ND	ND
04/06/92	521.31	507.48	13.83	--	88	ND	ND	0.8	ND	--	--	ND	--	ND	ND	ND	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	--	1400	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	--	--	--	--	--	--	--	ND
07/21,22/94	521.31	507.00	14.31	--	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--

NO LONGER MONITORED OR SAMPLED

Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Analytical results are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	Notes	TPH- Gasoline	Benzene	Toluene	Ethyl- Benzene	Xylene	MTBE	TOG	1,2-DCA	VC	MC 1,1,1-TCA	1,1-DCA	PCE	Total Lead	Diss. Lead	
C-5																			
03/28/86	520.82	508.82	12.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
03/15/88	520.82	507.07	13.75	--	1600	82	7.0	77	95	--	--	--	--	--	--	--	--	--	--
05/10/88	520.82	506.90	13.92	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07/10/88	520.82	507.10	13.72	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07/25/88	520.82	507.10	13.72	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10/13/88	520.82	506.98	13.84	--	2500	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	1.4	--	--	--	--	--	--	--
06/26/89	520.82	506.68	14.14	--	420	7.6	0.8	40	56	--	ND	1.5	--	--	--	--	--	--	--
10/13/89	520.82	506.67	14.15	--	620	ND	ND	10	ND	--	ND	ND	--	--	--	--	--	--	--
01/03/90	520.82	506.72	14.10	--	ND	0.7	ND	8.0	6.0	--	--	ND	--	--	--	--	--	--	--
05/08/90	520.82	506.82	14.00	--	140	0.6	0.8	11	7.2	--	--	0.8	--	ND	--	ND	--	--	--
09/27/90	520.82	506.82	14.00	--	360	ND	3.2	5.2	6.4	--	--	ND	--	0.7	ND	ND	--	--	--
01/03/91	520.82	506.82	14.00	--	90	ND	ND	ND	3.0	--	--	ND	--	ND	ND	ND	ND	--	--
04/12/91	520.82	507.11	13.71	--	270	12	ND	19	7.0	--	--	0.5	--	ND	ND	ND	ND	--	--
09/04/91	520.82	506.52	14.30	--	ND	ND	ND	ND	ND	--	--	ND	--	ND	ND	ND	ND	--	--
04/06/92	520.82	507.53	13.29	--	670	12	ND	40	ND	--	--	ND	--	ND	ND	ND	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	--	2300	13	ND	110	10	--	--	--	--	--	--	--	--	--	--
03/26/93	520.82	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
04/22/93	520.82	508.70	12.12	--	2300	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	--	2200	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	--	--	--	--	--	--	--	--	ND	--
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	1200	340	160	80	--	--	--	--	--	--	--	--	--	--
07/18/95	520.82	508.51	12.31	--	<2000	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	--	1300	180	<5.0	10	7.9	4300	--	--	--	--	--	--	--	--	--
04/17/96	520.82	509.71	11.11	--	2200	140	<10	<10	<10	5400	--	--	--	--	--	--	--	--	--
07/16/96	520.82	509.40	11.42	--	380	4.5	<0.5	3.4	3.1	1400	--	--	--	--	--	--	--	--	--
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	1700	--	--	--	--	--	--	--	--	--
10/20/97	520.82	508.76	12.06	Sampled annually	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Analytical results are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	Notes	TPH- Benzene Gasoline	Toluene	Ethyl- Xylene Benzene	MTBE	TOG	1,2-DCA	VC	MC 1,1,1-TCA	1,1-DCA	PCE	Total Lead	Dis. Lead	
C-6																	
03/26/86	519.62	508.50	11.12	--	--	--	--	--	--	--	--	--	--	--	--	--	--
03/15/88	519.62	506.69	12.93	--	46,000	870	4600	1500	8200	--	--	--	--	--	--	--	--
05/10/88	519.62	506.59	13.03	--	86,000	1400	10,000	3000	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	--	5300	300	600	260	1,600	--	--	--	--	--	--	--	--
01/01/89	519.62	507.48	12.14	--	--	--	--	--	--	--	--	--	--	--	--	--	--
01/12/89	519.62	--	--	--	5000	260	110	270	720	--	--	--	--	--	--	--	--
04/12/89	519.62	506.64	12.98	--	5000	90	190	190	680	--	4.0	ND	--	--	--	--	--
06/26/89	519.62	506.23	13.39	--	3600	77	250	140	610	--	ND	ND	--	--	--	--	--
10/13/89	519.62	506.22	13.40	--	3500	32	81	100	530	--	ND	ND	--	--	--	--	--
01/03/90	519.62	506.44	13.18	--	3200	20	97	65	410	--	--	1.0	--	--	--	--	--
05/08/90	519.62	506.23	13.39	--	1800	17	140	ND	400	--	--	1.6	--	ND	--	ND	--
09/29/90	519.62	506.30	13.32	--	8000	58	210	260	2100	--	--	1.0	--	ND	2.4	1.6	--
01/03/91	519.62	506.43	13.19	--	2300	4.0	79	59	380	--	--	0.5	--	ND	ND	ND	ND
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	3400	--	--	ND	--	ND	ND	ND	ND
07/28/92	519.62	506.15	13.47	--	120,000	220	1100	3000	13,000	--	--	--	--	--	--	--	--
10/16/92	519.62	505.67	13.95	--	570,000	ND	830	3300	9600	--	--	--	--	--	--	--	--
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	1100	--	--	--	--	--	--	--	--
04/22/93	519.62	508.30	11.32	--	20,000	29	170	640	2400	--	--	--	--	--	--	--	--
07/20,21/93	519.62	504.70	14.92	--	32,000	130	490	1000	4900	--	--	--	--	--	--	--	--
10/20/93	519.62	506.71	12.91	--	77,000	290	790	2500	7600	--	--	--	--	--	--	--	--
01/20/94	519.62	506.94	12.68	--	22,000	10	86	510	29	--	--	--	--	--	--	--	--
04/21/94	519.62	506.74	12.88	--	6500	17	42	160	210	--	--	--	--	--	--	--	--
07/21,22/94	519.62	506.78	12.84	--	4500	ND	7.1	130	130	--	--	--	--	--	--	--	ND
01/18/95	519.62	508.61	11.01	--	3600	3.3	6.7	62	78	--	--	--	--	--	--	--	--
04/17/95	519.62	508.35	11.27	--	1500	1.6	2.2	14	12	--	--	--	--	--	--	--	--
07/18/95	519.62	508.16	11.46	--	4000	<10	<10	40	22	--	--	--	--	--	--	--	--
10/17/95	519.62	507.64	11.98	--	6000	<10	<10	100	58	5200	--	--	--	--	--	--	--
01/18/96	519.62	508.78	10.84	--	1200	<5.0	<5.0	10	<5.0	2600	--	--	--	--	--	--	--
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	--	1300	10	<10	51	<10	2700	--	--	--	--	--	--	--
10/16/96	519.62	508.12	11.50	--	2600	31	<10	12	11	5100	--	--	--	--	--	--	--
04/10/97	519.62	508.35	11.27	Sampled biannually	1300	5.1	<2.5	17	<2.5	1300	--	--	--	--	--	--	--
10/20/97	519.62	507.85	11.77	--	2200	<2.5	4.6	14	13	1300	--	--	--	--	--	--	<5.0

Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Analytical results are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	MTBE	TOG	1,2-DCA	VC	MC 1,1,1-TCA	1,1-DCA	PCE	Total Lead	Diss. Lead	CDS
C-7																			
03/28/86	520.30	508.63	11.67	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
03/15/88	520.30	506.82	13.48	--	8000	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	4400	220	1000	3000	--	--	--	--	--	--	--	--	--	--
01/01/89	520.30	507.64	12.66	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
01/12/89	520.30	--	--	--	8000	950	47	670	640	--	--	--	--	--	--	--	--	--	--
04/12/89	520.30	506.70	13.60	--	6000	1100	30	760	370	--	ND	ND	--	--	--	--	--	--	--
06/26/89	520.30	506.42	13.88	--	6000	1300	50	600	340	--	ND	ND	--	--	--	--	--	--	--
10/13/89	520.30	506.49	13.81	--	3900	1300	ND	160	150	--	--	ND	--	--	--	--	--	--	--
01/03/90	520.30	506.59	13.71	--	5600	1200	13	180	200	--	--	1.0	--	--	--	--	--	--	--
05/08/90	520.30	506.45	13.85	--	3500	1100	15	110	140	--	--	1.7	--	ND	--	ND	--	--	--
09/29/90	520.30	506.50	13.80	--	2400	580	ND	46	68	--	--	0.7	--	ND	ND	ND	ND	--	--
01/03/91	520.30	506.59	13.71	--	2500	300	2.0	110	120	--	--	0.7	--	ND	ND	ND	ND	--	--
04/12/91	520.30	506.84	13.46	--	2300	190	1.0	81	87	--	--	0.6	--	ND	ND	ND	ND	--	--
09/04/91	520.30	506.21	14.09	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10/07/91	520.30	--	--	--	4700	170	1.9	97	59	--	--	ND	--	24	ND	ND	ND	--	--
04/06/92	520.30	507.28	13.02	--	2400	95	0.8	110	100	--	--	ND	--	ND	ND	ND	ND	--	--
07/28/92	520.30	506.54	13.76	--	2000	120	3.4	110	110	--	--	--	--	--	--	--	--	--	--
10/16/92	520.30	505.88	14.42	--	2700	130	4.2	68	74	--	--	--	--	--	--	--	--	--	--
01/14/93	520.30	509.32	10.98	--	7800	160	33	380	210	--	--	--	--	--	--	--	--	--	--
03/26/93	520.30	509.69	10.61	--	1400	39	9.0	28	15	--	--	--	--	--	--	--	--	--	--
04/22/93	520.30	508.46	11.84	--	3800	130	18	43	36	--	--	--	--	--	--	--	--	--	--
07/20,21/93	520.30	504.94	15.36	Sheen	1900	35	18	61	87	--	--	--	--	--	--	--	--	--	--
10/20/93	520.30	506.89	13.41	--	5500	72	26	250	160	--	--	--	--	--	--	--	--	--	--
01/20/94	520.30	507.11	13.19	Sheen	3600	12	12	150	69	--	--	--	--	--	--	--	--	--	--
04/21/94	520.30	506.97	13.33	--	2100	62	11	170	68	--	--	--	--	--	--	--	--	--	--
07/21,22/94	520.30	506.91	13.39	--	1700	50	4.4	110	22	--	--	--	--	--	--	--	--	--	--
01/18/95	520.30	508.71	11.59	--	920	16	<0.5	30	12	--	--	--	--	--	--	--	ND	--	--
04/17/95	520.30	508.56	11.74	--	730	4.3	1.6	12	1.8	--	--	--	--	--	--	--	--	--	--
07/18/95	520.30	508.32	11.98	--	1200	63	<5.0	12	<5.0	--	--	--	--	--	--	--	--	--	--
10/17/95	520.30	507.82	12.48	--	1100	45	<5.0	12	<5.0	8100	--	--	--	--	--	--	--	--	--
01/18/96	520.30	508.90	11.40	--	930	7.3	<5.0	<5.0	<5.0	1900	--	--	--	--	--	--	--	--	--
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	--	1400	96	<5.0	11	9.9	3000	--	--	--	--	--	--	--	--	--
10/16/96	520.30	508.30	12.00	--	4100	40	<5.0	7.5	5.5	3800	--	--	--	--	--	--	--	--	--

NO LONGER MONITORED OR SAMPLED

Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Analytical results are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	MTBE	TOG	1,2-DCA	VC	MC 1,1,1-TCA	1,1-DCA	PCE	Total Lead	Diss. Lead	CDS
C-8																			
03/28/86	519.74	507.96	11.78	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
03/15/88	519.74	506.11	13.63	--	7500	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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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	--	3000	13	ND	ND	ND	--	12	5.0	--	--	--	--	--	--	--
06/26/89	519.74	505.71	14.03	--	780	14	6.0	ND	6.0	--	ND	4.0	--	--	--	--	--	--	--
10/13/89	519.74	505.68	14.06	--	ND	ND	ND	ND	ND	--	ND	ND	--	--	--	--	--	--	--
01/03/90	519.74	506.00	13.74	--	910	ND	ND	1.0	1.0	--	--	1.5	--	--	--	--	--	--	--
05/07/90	519.74	505.64	14.10	--	620	3.9	6.0	0.5	3.4	--	--	1.9	--	ND	--	ND	--	--	--
09/29/90	519.74	505.77	13.97	--	77	ND	1.4	ND	ND	--	--	ND	--	0.6	ND	ND	--	--	--
01/03/91	519.74	505.93	13.81	--	67	2.0	2.0	ND	2.0	--	--	ND	--	0.7	ND	ND	ND	--	--
04/12/91	519.74	506.14	13.60	--	180	4.0	ND	ND	ND	--	--	0.6	--	ND	ND	ND	ND	--	--
09/04/91	519.74	505.60	14.14	--	140	1.8	4.7	0.8	4.8	--	--	ND	--	ND	ND	ND	ND	--	--
04/06/92	519.74	506.62	13.12	--	150	ND	ND	ND	ND	--	--	ND	--	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	--	--	--	--	--	--	--	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	Insufficient water	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
01/18/96	519.74	507.64	12.10	Insufficient water	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
04/17/96	519.74	508.87	10.87	Sampled biannually	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07/16/96	519.74	508.26	11.48	Insufficient water	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10/16/96	519.74	507.78	11.96	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

NO LONGER MONITORED OR SAMPLED

Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Analytical results are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	MTBE	TOG	1,2-DCA	VC	MC	1,1,1-TCA	1,1-DCA	PCE	Total Lead	Diss. Lead	CDS
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	3900	--	--	--	--	--	--	--	--	--	--	--
05/10/88	519.52	506.40	13.12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
06/10/88	519.52	505.36	14.16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07/25/88	519.52	506.52	13.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10/13/88	519.52	506.39	13.13	--	2200	57	8.0	20	150	--	--	--	--	--	--	--	--	--	--	--
01/01/89	519.52	507.33	12.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
01/12/89	519.52	--	--	--	2000	39	12	51	46	--	--	--	--	--	--	--	--	--	--	--
04/12/89	519.52	506.41	13.11	--	6000	16	20	55	240	--	ND	2.1	--	--	--	--	--	--	--	--
04/11/89	519.52	506.41	13.11	--	6000	14	25	45	290	--	--	ND	--	--	--	--	--	--	--	--
06/26/89	519.52	506.12	13.40	--	3900	37	63	140	690	--	ND	ND	--	--	--	--	--	--	--	--
10/13/89	519.52	506.06	13.46	--	1300	7.0	ND	26	50	--	ND	ND	--	--	--	--	--	--	--	--
01/03/90	519.52	506.22	13.30	--	1500	ND	0.7	202	37	--	--	1.5	--	--	--	--	--	--	--	--
05/07/90	519.52	506.04	13.48	--	7100	21	33	89	500	--	--	1.9	--	ND	--	ND	--	--	--	--
09/29/90	519.52	506.13	13.39	--	1000	21	3.9	31	110	--	--	1.0	--	0.7	1.8	1.0	--	--	--	--
01/03/91	519.72	506.44	13.28	--	3200	ND	ND	32	140	--	--	0.8	--	ND	ND	ND	ND	--	--	--
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	--	2800	ND	ND	33	130	--	--	ND	--	ND	ND	ND	ND	--	--	--
07/28/92	519.72	506.27	13.45	--	1000	6.5	2.4	17	37	--	--	--	--	--	--	--	--	--	--	--
10/16/92	519.72	505.74	13.98	--	190,000	ND	730	960	2000	--	--	--	--	--	--	--	--	--	--	--
01/14/93	519.72	509.28	10.44	--	2200	ND	ND	27	77	--	--	--	--	--	--	--	--	--	--	--
03/26/93	519.72	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
04/22/93	519.72	508.29	11.43	--	7300	60	40	68	98	--	--	--	--	--	--	--	--	--	--	--
07/20,21/93	519.72	504.52	15.20	--	30,000	160	130	450	1100	--	--	--	--	--	--	--	--	--	--	--
10/20/93	519.72	506.76	12.96	--	36,000	22	200	440	930	--	--	--	--	--	--	--	--	--	--	--
01/20/94	519.72	506.88	12.84	--	12000	55	57	27	210	--	--	--	--	--	--	--	--	--	--	--
04/21/94	519.72	506.58	13.14	--	2200	11	12	23	19	--	--	--	--	--	--	--	--	--	--	--
07/21,22/94	519.72	506.77	12.95	--	1100	ND	4.0	14	10	--	--	--	--	--	--	--	--	--	13	--
01/18/95	519.72	508.57	11.15	--	2100	9.2	13	19	13	--	--	--	--	--	--	--	--	--	--	--
04/17/95	519.72	508.41	11.31	--	3800	4.8	3.6	5.9	7.2	--	--	--	--	--	--	--	--	--	--	--
07/18/95	519.72	508.06	11.66	--	1700	<2.0	<2.0	9.6	8.3	--	--	--	--	--	--	--	--	--	--	--
10/17/95	519.72	507.99	11.73	--	1200	<1.2	<1.2	2.2	4.3	450	--	--	--	--	--	--	--	--	--	--
01/18/96	519.72	509.04	10.68	--	1400	3.1	<2.5	<2.5	<2.5	750	--	--	--	--	--	--	--	--	--	--
04/17/96	519.72	509.67	10.05	--	480	0.94	<0.5	1.7	1.1	380	--	--	--	--	--	--	--	--	--	--
07/16/96	519.72	508.80	10.92	--	290	2.7	<0.5	2.0	3.3	420	--	--	--	--	--	--	--	--	--	--
10/16/96	519.72	508.42	11.30	--	2200	13	<10	<10	<10	1300	--	--	--	--	--	--	--	--	--	--
04/10/97	519.72	508.52	11.20	Sampled biannually	680	<5.0	<5.0	<5.0	<5.0	630	--	<0.5	<1.0	<5.0	<0.5	<0.5	<0.5	--	--	--
10/20/97	519.72	508.28	11.44	--	650	11	<5.0	8.1	7.2	1000	--	--	--	--	--	--	--	--	<5.0	--

Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Analytical results are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	Notes	TPH- Gasoline	Benzene	Toluene	Ethyl- Benzene	Xylene	MTBE	TOG	1,2- DCA	VC	MC 1,1,1- TCA	1,1- DCA	PCE	Total Lead	Diss. Lead	CDS
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	6.1	--	--	--	--	--	--	--
06/26/89	520.41	505.29	15.12	--	ND	0.7	ND	ND	1.5	--	4.0	ND	--	--	--	--	--	--	--
10/13/89	520.41	505.30	15.11	--	ND	ND	ND	ND	ND	--	ND	ND	--	--	--	--	--	--	--
01/03/90	520.41	505.40	15.01	--	ND	ND	ND	ND	ND	--	--	3.0	--	--	--	--	--	--	--
05/07/90	520.41	504.88	15.53	--	ND	ND	ND	ND	ND	--	--	ND	--	ND	--	ND	--	--	--
09/27/90	520.41	505.21	15.20	--	ND	ND	ND	ND	ND	--	--	ND	--	1.2	ND	ND	--	--	--
01/03/91	520.41	505.35	15.06	--	ND	ND	ND	ND	ND	--	--	ND	--	ND	ND	ND	--	--	--
04/12/91	520.41	505.55	14.86	--	110	16	ND	2.9	2.7	--	--	1.0	--	ND	ND	ND	ND	--	--
09/04/91	520.41	505.19	15.22	--	ND	ND	ND	ND	ND	--	--	ND	--	ND	ND	ND	ND	--	--
04/06/92	520.41	506.20	14.21	--	57	ND	ND	ND	ND	--	--	1.1	--	ND	ND	ND	ND	--	--
07/28/92	520.41	505.63	14.78	--	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--
10/16/92	520.41	504.90	15.51	--	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--
01/14/93	520.41	506.97	13.44	--	88	4.7	ND	2.3	1.6	--	--	--	--	--	--	--	--	--	--
03/26/93	520.41	507.86	12.55	--	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--
04/22/93	520.41	506.67	13.74	--	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--
07/20,21/93	520.41	503.92	16.49	--	100	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--
10/20/93	520.41	505.77	14.64	--	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--
01/20/94	520.41	506.02	14.39	--	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--
04/21/94	520.41	505.79	14.62	--	ND	0.8	ND	ND	ND	--	--	--	--	--	--	--	--	--	--
07/21,22/94	520.41	505.84	14.57	--	ND	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 biannually	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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	1000	--	--	--	--	--	--	--	--	--
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	1000	--	--	--	--	--	--	--	--	--
10/16/96	520.41	506.91	13.50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

NO LONGER MONITORED OR SAMPLED

Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Analytical results are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	Notes	TPH- Benzene	Toluene	Ethyl- Xylene Benzene	MTBE	TOG	1,2-DCA	VC	MC 1,1,1-TCA	1,1-DCA	PCE	Total Lead	Diss. Lead	CDS
					Gasoline												
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	--	--	--	--	--	--	--	--	--	--	--	--	--	--
01/01/89	520.04	505.94	14.10	--	2.0	240	33	4.7	67	--	--	--	--	--	--	--	--
01/12/89	520.04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
04/12/89	520.04	505.68	14.36	--	ND	ND	0.8	ND	ND	--	--	--	--	--	--	--	--
06/26/89	520.04	505.46	14.58	--	ND	4.3	ND	ND	ND	--	--	--	--	--	--	--	--
10/13/89	520.04	505.33	14.71	--	ND	2.0	ND	ND	ND	--	ND	ND	--	--	--	--	--
01/03/90	520.04	505.43	14.61	--	ND	ND	ND	ND	ND	--	ND	ND	--	--	--	--	--
05/08/90	520.04	504.51	15.53	--	ND	ND	ND	ND	0.7	--	ND	ND	--	--	--	--	--
09/28/90	520.04	504.53	15.51	--	110	12	11	0.9	22	--	--	ND	--	ND	--	--	--
01/03/91	520.04	505.41	14.63	--	ND	2.0	1.4	ND	3.3	--	--	ND	--	1.2	ND	ND	--
04/12/91	520.04	505.74	14.30	--	ND	2.0	ND	ND	2.0	--	--	ND	--	ND	ND	ND	--
09/04/91	520.04	505.20	14.84	--	--	--	--	--	--	--	--	ND	--	ND	ND	1.0	--
04/06/92	520.04	506.48	13.56	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07/28/92	520.04	505.65	14.39	--	ND	ND	ND	ND	ND	--	ND	--	--	--	--	--	--
10/16/92	520.04	504.25	15.79	--	ND	ND	ND	ND	ND	--	--	ND	--	ND	ND	ND	--
01/14/93	520.04	507.90	12.14	--	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
03/26/93	520.04	508.23	11.81	--	94	ND	1.3	0.7	6.0	--	--	--	--	--	--	--	--
04/22/93	520.04	507.10	12.94	--	130	2.0	ND	0.6	1.0	--	--	--	--	--	--	--	--
07/20,21/93	520.04	503.56	16.48	--	ND	0.8	ND	ND	ND	--	--	--	--	--	--	--	--
10/20/93	520.04	505.58	14.46	--	1200	3.0	1.0	ND	1.0	--	--	--	--	--	--	--	--
01/20/94	520.04	505.92	14.12	--	ND	2.0	ND	ND	ND	--	--	--	--	--	--	--	--
04/21/94	520.04	505.80	14.24	--	140	5.0	0.6	3.0	4.0	--	--	--	--	--	--	--	--
07/21,22/94	520.04	505.83	14.21	--	86	1.7	0.6	1.2	1.6	--	--	--	--	--	--	--	--
01/18/95	520.04	506.81	13.23	--	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
04/17/95	520.04	507.03	13.01	--	50	3.7	<0.5	0.9	1.9	--	--	--	--	--	--	7.0	--
07/18/95	520.04	507.04	13.00	--	89	1.4	1.3	0.69	0.79	--	--	--	--	--	--	--	--
10/17/95	520.04	506.72	13.32	--	89	0.95	<0.5	1.1	1.0	--	--	--	--	--	--	--	--
01/18/96	520.04	507.14	12.90	--	73	<0.5	<0.5	<0.5	<0.5	390	--	--	--	--	--	--	--
04/17/96	519.95	507.47	12.48	--	240	12	29	4.3	33	<2.5	--	--	--	--	--	--	--
07/16/96	519.95	507.28	12.67	--	<50	<0.5	<0.5	<0.5	<0.5	26	--	--	--	--	--	--	--
10/16/96	519.95	506.90	13.05	--	<500	17	<5.0	<5.0	20	5900	--	--	--	--	--	--	--
04/10/97	519.95	506.77	13.18	--	<125	<1.2	<1.2	<1.2	<1.2	910	--	--	--	--	--	--	--
10/20/97	519.95	506.70	13.25	--	<100	<1.0	<1.0	<1.0	<1.0	460	--	--	--	--	--	--	--
					190	<0.5	7.2	2.6	16	8900	--	--	--	--	--	25	--

Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Analytical results are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	Notes	TPH- Gasoline	Benzene	Toluene	Ethyl- Benzene	Xylene	MTBE	TOG	1,2- DCA	VC	MC	1,1,1- TCA	1,1- DCA	PCE	Total Lead	Diss. Lead	Co
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	ND	--	--	--	--	--	--	--	--
06/26/89	519.82	505.07	14.75	--	ND	ND	ND	ND	ND	--	ND	ND	--	--	--	--	--	--	--	--
10/13/89	519.82	505.05	14.77	--	ND	ND	ND	ND	ND	--	ND	ND	--	--	--	--	--	--	--	--
01/03/90	519.82	504.97	14.85	--	ND	ND	ND	ND	0.6	--	--	ND	--	--	--	--	--	--	--	--
05/07/90	519.82	505.07	14.75	--	ND	ND	ND	ND	ND	--	--	ND	--	ND	--	ND	--	--	--	--
09/27/90	519.82	505.21	14.61	--	ND	ND	ND	ND	ND	--	--	ND	--	1.2	ND	ND	--	--	--	--
01/03/91	519.82	505.12	14.70	--	ND	ND	ND	ND	ND	--	--	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	--	--	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	--	--	--	--	--	--	--	--	ND	--	--

NO LONGER MONITORED OR SAMPLED

Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Analytical results are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	Notes	TPH- Gasoline	Benzene	Toluene	Ethyl- Benzene	Xylene	MTBE	TOG	1,2- DCA	VC	MC	1,1,1- TCA	1,1- DCA	PCE	Total Lead	Diss. Lead	CDS
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	ND	--	--	--	--	--	--	--	--
06/26/89	522.24	507.08	15.16	--	ND	0.3	ND	ND	ND	--	ND	ND	--	--	--	--	--	--	--	--
10/13/89	522.24	507.01	15.23	--	ND	ND	ND	ND	ND	--	ND	ND	--	--	--	--	--	--	--	--
01/03/90	522.24	507.09	15.15	--	ND	ND	ND	0.5	0.6	--	--	ND	--	--	--	--	--	--	--	--
05/08/90	522.24	507.22	15.02	--	ND	ND	ND	ND	ND	--	--	ND	--	ND	--	ND	--	--	--	--
09/27/90	522.24	507.13	15.11	--	ND	ND	0.6	ND	ND	--	--	ND	--	1.7	ND	ND	--	--	--	--
01/03/91	522.24	507.16	15.08	--	ND	ND	ND	ND	0.6	--	--	ND	--	ND	ND	ND	ND	--	--	--
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	--	--	ND	--	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	--	--	--	--	--	--	--	--	ND	--	--

NO LONGER MONITORED OR SAMPLED

Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Analytical results are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	MTBE	TOG	1,2-DCA	VC	MC 1,1,1-TCA	1,1-DCA	PCE	Total Lead	Diss. Lead	CDS
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	2700	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	--	--	--	NS	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--
04/12/89	520.08	506.61	13.47	--	NS	ND	ND	ND	ND	--	ND	ND	--	--	--	--	--	--	--
06/26/89	520.08	506.28	13.80	--	140,000	14,000	25,000	3400	26,000	--	--	30	--	--	--	--	--	--	--
10/13/89	520.08	506.46	13.62	--	86,000	12,000	16,000	1600	13,000	--	--	--	--	--	--	--	--	--	--
01/03/90	520.08	506.17	13.91	--	120,000	9500	16,000	1800	13,000	--	--	25	3.0	--	--	--	--	--	--
01/04/90	520.08	506.17	13.91	--	76,000	3900	8100	1200	7700	--	--	18	1.0	--	--	--	--	--	--
05/08/90	520.08	506.19	13.89	--	62,000	7500	17,000	1400	14,000	--	--	13	--	ND	--	ND	--	--	--
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	3800	720	9200	--	--	ND	--	ND	ND	ND	ND	--	--
09/04/91	520.08	506.24	13.84	--	110,000	2800	11,000	1300	13,000	--	--	--	--	--	--	--	--	--	--
04/06/92	520.08	507.64	12.44	--	41,000	190	1800	440	5100	--	--	ND	--	ND	ND	ND	ND	--	--
07/28/92	520.08	506.38	13.70	--	130,000	2300	9700	1800	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	2700	--	--	--	--	--	--	--	--	--	--
03/26/93	520.08	510.96	9.12	--	23,000	330	1600	460	4000	--	--	--	--	--	--	--	--	--	--
04/22/93	520.08	507.98	12.10	Sheen	17,000	840	2300	130	3500	--	--	--	--	--	--	--	--	--	--
07/20,21/93	520.08	--	--	Inaccessible	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10/20/93	520.08	505.77	14.31	Insufficient water	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
01/20/94	520.08	507.94	12.14	--	22,000	130	790	270	2400	--	--	--	--	--	--	--	--	--	--
04/21/94	520.08	508.15	11.93	--	9400	88	330	72	960	--	--	--	--	--	--	--	--	--	--
07/21,22/94	520.08	506.94	13.14	--	6200	92	180	30	530	--	--	--	--	--	--	--	--	330	--
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	Insufficient water	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
01/18/96	520.08	507.84	12.24	Insufficient water	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
04/17/96	520.08	507.91	12.17	Insufficient water	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07/16/96	520.08	508.55	11.53	Insufficient water	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10/16/96	520.08	507.98	12.10	Insufficient water	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
04/10/97	520.08	508.11	11.97	Insufficient water	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10/20/97	520.08	507.79	12.29	Insufficient water	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet. Analytical results are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	MTBE	TOG	1,2-DCA	VC	MC 1,1,1-TCA	1,1-DCA	PCE	Total Lead	Diss. Lead	CDS
C-15																			
03/28/86	522.41	509.27	13.14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
03/15/88	522.41	507.28	15.13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
05/10/88	522.41	507.01	15.40	--	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--
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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
01/01/89	522.41	508.71	13.70	--	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--
01/12/89	522.41	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
04/12/89	522.41	507.07	15.34	--	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--
06/26/89	522.41	506.69	15.72	--	ND	ND	ND	ND	ND	--	--	ND	ND	--	--	--	--	--	--
10/13/89	522.41	506.45	15.96	--	ND	ND	ND	ND	ND	--	ND	ND	--	--	--	--	--	--	--
01/03/90	522.41	506.99	15.42	--	ND	ND	ND	ND	ND	--	ND	ND	--	--	--	--	--	--	--
05/08/90	522.41	506.79	15.62	--	ND	ND	ND	ND	ND	--	ND	ND	--	--	--	--	--	--	--
09/27/90	522.41	506.82	15.59	--	ND	ND	ND	ND	ND	--	ND	ND	--	--	--	--	--	--	--
01/03/91	522.41	506.91	15.50	--	ND	ND	ND	ND	ND	--	ND	ND	--	ND	--	ND	--	--	--
04/12/91	522.41	507.20	15.21	--	ND	ND	ND	ND	0.6	--	--	ND	--	2.9	ND	ND	--	--	--
09/04/91	522.41	506.51	15.90	--	--	--	--	--	--	--	--	ND	--	ND	ND	ND	--	--	--
04/06/92	522.41	507.53	14.88	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07/28/92	522.41	506.59	15.82	--	ND	ND	ND	ND	ND	--	--	ND	--	ND	ND	ND	--	--	--
10/16/92	522.41	506.16	16.25	--	ND	ND	ND	ND	ND	--	--	--	--	ND	ND	ND	--	--	--
01/14/93	522.41	509.93	12.48	--	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--
03/26/93	522.41	509.74	12.67	--	61	ND	1.9	0.8	5.1	--	--	--	--	--	--	--	--	--	--
04/22/93	522.41	508.81	13.60	--	ND	ND	ND	ND	1.0	--	--	--	--	--	--	--	--	--	--
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	--	--	--	--	--	--	--	--	--	--
NO LONGER MONITORED OR SAMPLED																			

Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Analytical results are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	MTBE	TOG	1,2-DCA	VC	MC 1,1,1-TCA	1,1-DCA	PCE	Total Lead	Diss. Lead	CD
C-16																			
03/28/86	519.68	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
03/15/88	519.68	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
05/10/88	519.68	505.90	13.78	--	4500	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	--	1600	16	5.5	ND	16	--	--	--	--	--	--	--	--	--	--
01/01/89	519.68	506.23	13.45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
01/12/89	519.68	--	--	--	1000	360	11	78	51	--	--	--	--	--	--	--	--	--	--
04/11/89	519.68	505.90	13.78	--	15,800	130	4.0	21	19	--	ND	8.0	--	--	--	--	--	--	--
06/26/89	519.68	505.66	14.02	--	1300	170	8.0	37	43	--	ND	ND	--	--	--	--	--	--	--
10/13/89	519.68	505.67	14.01	--	1000	20	ND	7.0	ND	--	ND	ND	--	--	--	--	--	--	--
01/03/90	519.68	505.71	13.97	--	1300	150	3.0	41	24	--	--	5.0	--	--	--	--	--	--	--
05/07/90	519.68	505.23	14.45	--	480	49	4.4	29	13	--	--	4.5	--	ND	--	ND	--	--	--
09/29/90	519.68	505.36	14.32	--	360	18	2.1	11	8.0	--	--	1.8	--	ND	ND	ND	--	--	--
01/03/91	519.68	505.72	13.96	--	230	12	ND	6.0	6.0	--	--	2.0	--	0.8	ND	ND	ND	--	--
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	--	--	1.0	--	ND	ND	ND	ND	--	--
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	--	--	--	--	--	--	--	--	8.0	--
01/18/95	519.68	--	--	Inaccessible	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
04/17/95	519.68	--	--	Inaccessible	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07/18/95	519.68	--	--	Inaccessible	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10/17/95	519.68	--	--	Inaccessible	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
01/18/96	519.68	--	--	Inaccessible	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
04/17/96	519.68	--	--	Inaccessible	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07/16/96	519.68	--	--	Inaccessible	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10/16/96	519.68	--	--	Inaccessible	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

NO LONGER MONITORED OR SAMPLED

Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Analytical results are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	Notes	TPH- Gasoline	Benzene	Toluene	Ethyl- Benzene	Xylene	MTBE	TOG	1,2- DCA	VC	MC 1,1,1- TCA	1,1- DCA	PCE	Total Lead	Diss. Lead	CDS
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	5500	--	--	--	--	--	--	--	--	--	--
01/01/89	520.82	506.04	14.78	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
01/12/89	520.82	--	--	--	190,000	ND	490	2100	6700	--	--	--	--	--	--	--	--	--	--
04/11/89	520.82	505.99	14.83	--	27,000	30	150	320	1000	--	6.0	ND	--	--	--	--	--	--	--
06/26/89	520.82	505.79	15.03	--	20,000	50	390	660	2000	--	ND	ND	--	--	--	--	--	--	--
06/26/89	520.82	505.79	15.03	--	27,000	40	420	740	2200	--	--	ND	--	--	--	--	--	--	--
10/13/89	520.82	505.80	15.02	--	17,000	ND	48	230	480	--	ND	ND	--	--	--	--	--	--	--
01/03/90	520.82	505.72	15.10	--	14,000	ND	29	120	210	--	--	ND	--	--	--	--	--	--	--
05/08/90	520.82	505.70	15.12	--	9500	25	130	210	470	--	--	ND	--	ND	--	ND	--	--	--
09/29/90	520.82	505.83	14.99	--	ND	ND	ND	ND	ND	--	--	ND	--	ND	1.9	ND	--	--	--
09/29/90	520.82	505.83	14.99	--	ND	ND	3.4	ND	ND	--	--	ND	--	1.8	1.9	ND	--	--	--
01/03/91	520.82	505.90	14.92	--	3700	ND	28	56	140	--	--	ND	--	1.8	1.9	ND	ND	--	--
01/03/91	520.82	505.90	14.92	--	8600	ND	10	59	150	--	--	ND	--	ND	ND	ND	ND	--	--
04/12/91	520.82	506.11	14.71	--	8600	ND	5.0	47	120	--	--	ND	--	ND	ND	ND	ND	--	--
04/12/91	520.82	506.11	14.71	--	4400	ND	11	48	120	--	--	ND	--	ND	ND	ND	ND	--	--
09/04/91	520.82	505.65	15.17	--	5800	ND	27	49	79	--	--	ND	--	ND	ND	ND	ND	--	--
09/04/91	520.82	505.65	15.17	--	4100	ND	21	36	61	--	--	ND	--	ND	ND	ND	ND	--	--
04/06/92	520.82	506.68	14.14	--	2300	ND	5.8	27	29	--	--	ND	--	ND	ND	ND	ND	--	--
07/28/92	520.82	505.64	15.18	--	11,000	99	180	170	430	--	--	--	--	--	--	--	--	--	--
10/16/92	520.82	505.06	15.76	--	,200,000	ND	4800	3900	6600	--	--	--	--	--	--	--	--	--	--
01/14/93	520.82	507.38	13.44	--	3500	9.3	9.1	23	34	--	--	--	--	--	--	--	--	--	--
03/26/93	520.82	508.36	12.46	--	3700	ND	19	20	35	--	--	--	--	--	--	--	--	--	--
04/22/93	520.82	507.52	13.30	--	8900	16	68	44	97	--	--	--	--	--	--	--	--	--	--
07/20,21/93	520.82	503.61	17.21	--	4200	5.0	35	33	62	--	--	--	--	--	--	--	--	--	--
10/20/93	520.82	505.73	15.09	--	4500	5.0	12	43	64	--	--	--	--	--	--	--	--	--	--
01/20/94	520.82	506.35	14.47	--	1900	4.0	42	24	73	--	--	--	--	--	--	--	--	--	--
04/21/94	520.82	505.87	14.95	--	1100	5.0	20	23	42	--	--	--	--	--	--	--	--	--	--
07/21,22/94	520.82	506.22	14.60	--	72	ND	ND	ND	0.9	--	--	--	--	--	--	--	--	ND	--
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	--	--	--	--	--	--	--	--	--

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Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Analytical results are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	Notes	TPH- Gasoline	Benzene	Toluene	Ethyl- Benzene	Xylene	MTBE	TOG	1,2- DCA	VC	MC	1,1,1- TCA	1,1- DCA	PCE	Total Lead	Diss. Lead	Chloride
C-17 (CONT'D)																				
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	Sampled biannually	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	--	--	--	--	--	--	--	--	<5.0	--

Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Analytical results are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	MTBE	TOG	1,2-DCA	VC	MC	1,1,1-TCA	1,1-DCA	PCE	Total Lead	Diss. Lead	CD
C-18																				
03/28/86	518.96	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
03/15/88	518.96	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
05/10/88	518.96	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
06/10/88	518.96	504.07	14.89	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07/25/88	518.96	505.17	13.79	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10/13/88	518.96	505.10	13.86	--	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	--
01/01/89	518.96	505.02	13.94	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
01/12/89	518.96	--	--	--	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	--
04/11/89	518.96	504.10	14.86	--	ND	ND	ND	ND	ND	--	ND	3.6	--	--	--	--	--	--	--	--
06/26/89	518.96	504.94	14.02	--	ND	ND	ND	ND	ND	--	ND	3.1	--	--	--	--	--	--	--	--
10/13/89	518.96	503.90	15.06	--	ND	ND	ND	ND	ND	--	ND	ND	--	--	--	--	--	--	--	--
01/03/90	518.96	504.89	14.07	--	ND	ND	ND	ND	ND	--	--	1.0	--	--	--	--	--	--	--	--
05/07/90	518.96	504.95	14.01	--	ND	ND	ND	ND	ND	--	--	ND	--	ND	--	ND	--	--	--	--
09/27/90	518.96	505.05	13.91	--	ND	ND	ND	ND	ND	--	--	ND	--	0.6	ND	ND	--	--	--	--
01/03/91	518.96	504.98	13.98	--	ND	ND	ND	ND	ND	--	--	ND	--	ND	ND	ND	ND	--	--	--
04/12/91	518.96	505.13	13.83	--	ND	ND	ND	ND	ND	--	--	ND	--	ND	ND	ND	ND	ND	--	--
09/04/91	518.96	504.76	14.20	--	ND	ND	ND	ND	ND	--	--	ND	--	ND	ND	ND	ND	ND	--	--
04/06/92	518.96	505.89	13.07	--	ND	ND	ND	ND	ND	--	--	ND	--	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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

NO LONGER MONITORED OR SAMPLED

Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Analytical results are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	Notes	TPH- Gasoline	Benzene	Toluene	Ethyl- Benzene	Xylene	MTBE	TOG	1,2- DCA	VC	MC 1,1,1- TCA	1,1- DCA	PCE	Total Lead	Diss. Lead	Cu
C-19																			
03/28/86	520.99	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
03/15/88	520.99	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
05/10/88	520.99	505.76	15.23	--	18	1400	360	350	1300	--	--	--	--	--	--	--	--	--	--
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	13	--	--	--	--	--	--	--
04/11/89	520.99	505.75	15.24	--	500	1.2	ND	0.6	0.6	--	--	14	--	--	--	--	--	--	--
06/26/89	520.99	505.55	15.44	--	500	2.5	ND	ND	ND	--	ND	26	--	--	--	--	--	--	--
10/13/89	520.99	505.52	15.47	--	540	ND	ND	ND	ND	13	ND	13	--	--	--	--	--	--	13
01/03/90	520.99	505.54	15.45	--	ND	1.2	0.7	1.3	0.9	--	--	11	--	--	--	--	--	--	--
05/07/90	520.99	505.31	15.68	--	ND	ND	ND	ND	ND	--	--	4.6	--	ND	--	ND	--	--	--
09/28/90	520.99	505.47	15.52	--	ND	ND	ND	ND	ND	--	--	ND	--	1.2	ND	ND	--	--	--
01/03/91	520.99	505.43	15.56	--	66	ND	ND	ND	ND	--	--	1.0	--	ND	ND	ND	0.9	--	--
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	--	--	1.9	--	ND	ND	ND	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	--	--	--	--	--	--	--	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 biannually	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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	1200	--	--	--	--	--	--	--	--	--
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	1600	--	--	--	--	--	--	--	--	--
10/20/97	520.96	506.94	14.02	Sampled annually	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

















Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Analytical results are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	Notes	TPH- Gasoline	Benzene	Toluene	Ethyl- Benzene	Xylene	MTBE	TOG	1,2- DCA	VC	MC	1,1,1- TCA	1,1- DCA	PCE	Total Lead	Diss. Lead	CD
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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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	--	--	--	--	--	--	--	--	--	--

NO LONGER MONITORED OR SAMPLED

Depth In Feet	Blow/ Ft.	Sample No.	USCS	DESCRIPTION	WELL CONST.
0				Asphalt 4"	
1					
2			ML	SILT - brown, little clay, little gravel, 1" rounded, stiff, low plasticity, moist, NO SC	
3					
4					
5					
6			CH	CLAY - brown, little silt, soft, high plasticity, moist, NO SC	
7					
8	2 2 3		CH	CLAY - brown, trace fine gravel, 1/4" angular, soft, high plasticity, moist, NO SC	
9					
10	1 0 2		CH	CLAY - dark brown, trace fine gravel, 1/4" rounded, poorly sorted, soft, high plasticity, moist, NO SC	
11					
12					
13	5 6 9		CL	SILTY CLAY - tan, little fine gravel, 1/2" subrounded, poorly sorted, trace black organics, stiff, low plasticity, moist, NO SC	
14					
15	9 10		CL	GRAVELLY CLAY - tan with light grey mottling, fine gravel, 1/4" rounded, poorly sorted	

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




CHEVRON USA
 4904 S. FRONT STREET
 LIVERMOORE, CA
 LOG OF BORING NO. K-11

PLATE

4

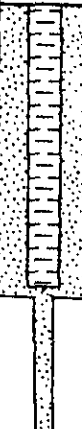
PROJECT NO. B-1458-1


Depth in Feet	Blow/ Ft.	Sample No.	USCS	DESCRIPTION	WELL CONST
	16	16			Little silt, very stiff, low plasticity, NOSC
17					
18	4 6 9		CL	SILTY CLAY - tan, rust staining, stiff, medium plasticity, moist NOSC	
19					
20	4	▽	ML	CLAYEY SILT - tan, rust staining, trace fine gravel, 1/8" subangular, very stiff, medium plasticity, slightly wet, NOSC	
21	6				
22	12				
23					
24					
25	6		ML	SANDY SILT - tan, fine sand, stiff, medium plasticity	
26	9				
27	23		SP	SAND - tan, trace fine gravel, 1/2" poorly sorted, fine to medium sand, some silt, medium dense, wet, NOSC	
28					
29					
30					
31	4 6 9		CH	CLAY - tan, trace black organics, stiff, high plasticity, wet, NOSC	

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 PROJECT NO. B-1458-1

CHEVRON USA
 4904 S. FRONT STREET
 LIVERMOORE, CA
 LOG OF BORING NO. K-11

PLATE
4

Depth in Feet	Blow/ Fl.	Sample No.	USCS	DESCRIPTION	WELL CONST
	32				
33					
34					
35	4		SP	SAND - gray, fine to medium sand, very dense, wet, NOSC	
36	19 37				
				Total depth = 36.5 ' Logged By: Eric Findlay	

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 LIVERMOORE, CA
 LOG OF BORING NO. K-11

PLATE
 4

Depth In feet	Blow/Fl.	Sample No.	USCS	DESCRIPTION	WELL CONST
0				Asphalt 1'	
1					
2					
3					
4	-				
5	2		CH	SILTY CLAY - black, trace root fragments, stiff, high plasticity, moist, NOSC	
6	5				
7	6				
8	5		CH	CLAY - tan with light gray mottling, rust staining, little silt, trace black organics, very stiff, high plasticity, moist, NOSC	
9	6				
10	8				
11	7		CL	SILTY CLAY - tan with light gray mottling, rust staining, trace fine gravel, 1/8", very stiff, medium plasticity, moist, NOSC	
12	11				
13	13				
14	7		CL	CLAY - tan and rust, little silt, trace black organics, very stiff, medium plasticity, moist, Gas Odor	
15	10				
16	13				
17	4		CL	CLAY - tan, trace black organics in fissures, stiff	
18	5				

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 GEOTECHNICAL CONSULTANTS • MATERIALS TESTING



CHEVRON USA
 4904 S. FRONT STREET
 LIVERMORE, CA
 LOG OF BORING NO. K-12

PLATE

5

PROJECT NO. B-1458-1

3.0 SITE HYDROGEOLOGIC CONDITIONS

The following sections summarize site hydrogeologic conditions as determined in previous investigations, and as determined through a subsequent investigation performed by KHM. On May 17, 2001, Equiva and 7-Eleven, Inc. signed an access agreement in order to access the site for the collection of soil and soil vapor samples at the subject site. KHM collected soil and soil vapor samples on June 18, 2001 in accordance with the work plan approved by ACHCSA.

3.1 STRATIGRAPHY

The geologic materials underlying the site can be differentiated into two stratigraphic units – an upper unit consisting primarily of sandy clay that extends from the ground surface to a depth of approximately 10- to 14- feet below grade and an underlying unit composed of sand and gravel to the total depth explored of 30 feet below grade. Clay in the upper unit was classified in the field as a CL by the Unified Soil Classification System. The percentage of sand and silt in the clay appears variable. The clay in the upper unit is locally interlayered with sand and gravel deposits. Soils in the underlying coarse-grained unit range from poorly graded sand and gravel (SP and GP) to clayey sand (SC), silty sand (SM), and clayey gravel (GC). Site boring logs are included as Appendix C.

3.2 GROUNDWATER OCCURRENCE

Groundwater was first encountered in site borings at depths of 12 to 14 feet below grade. Groundwater was found near the contact between the upper and lower stratigraphic units. Depth to groundwater in on-site monitoring wells has ranged from 7.46 to 14.11 feet below top of casing. Depth to groundwater on June 28, 2001, ranged from 9.81 to 13.40 feet below top of casing. Depth to groundwater in off-site wells was 10.82 feet in Well MW-4 and 16.49 feet in Well MW-8.

3.3 GROUNDWATER MOVEMENT

Historic groundwater elevation contour maps indicate that the groundwater flow direction has varied from west to north. Groundwater flow has most frequently been observed toward the northwest, parallel with Springtown Boulevard. The distribution of dissolved petroleum hydrocarbon constituents in groundwater also indicates a northwest flow direction. The flow gradient in recent years has ranged from 0.003 to 0.006.

3.4 DISSOLVED PETROLEUM HYDROCARBONS IN GROUNDWATER

Groundwater monitoring has been performed at the site since January 1992. Historic groundwater analytical data is contained in Appendix D. Groundwater monitoring has

defined a narrow plume of dissolved petroleum hydrocarbons extending approximately 250 feet west of the former site UST (see maps in Appendix D). Highest concentrations of petroleum hydrocarbons have been in Wells MW-A, MW-B, and MW-5.

The most recent groundwater samples were obtained from site monitoring wells on June 28, 2001. The samples were analyzed for total petroleum hydrocarbons as gasoline (TPH-g), benzene, toluene, ethylbenzene, and xylene (BTEX), and methyl tert-butyl ether (MTBE) by EPA Method 8260B. Analytical results are presented in Table 1.

As in previous groundwater monitoring, analytical results of the most recent groundwater samples indicated that dissolved petroleum hydrocarbons occur near the former USTs located in the northeastern corner of the site (Figure 3). The highest concentrations of TPH-g and BTEX compounds were detected in the groundwater sample from Well MW-B located immediately north of the former USTs. TPH-g and benzene were detected at 16,000 micrograms per liter (ug/L) and 29 ug/L, respectively. MTBE was detected by EPA Method 8260B in Wells MW-1 (0.65 ug/L) and MW-3 (1.8 ug/L), located immediately north and west, respectively, of the former USTs. MTBE was also detected in the groundwater sample from Well MW-8 (29 ug/L) located approximately 150 feet west of the site. Groundwater from Well MW-8 was previously analyzed by EPA Method 8260 for MTBE once on November 11, 2000, at which time MTBE was not detected.

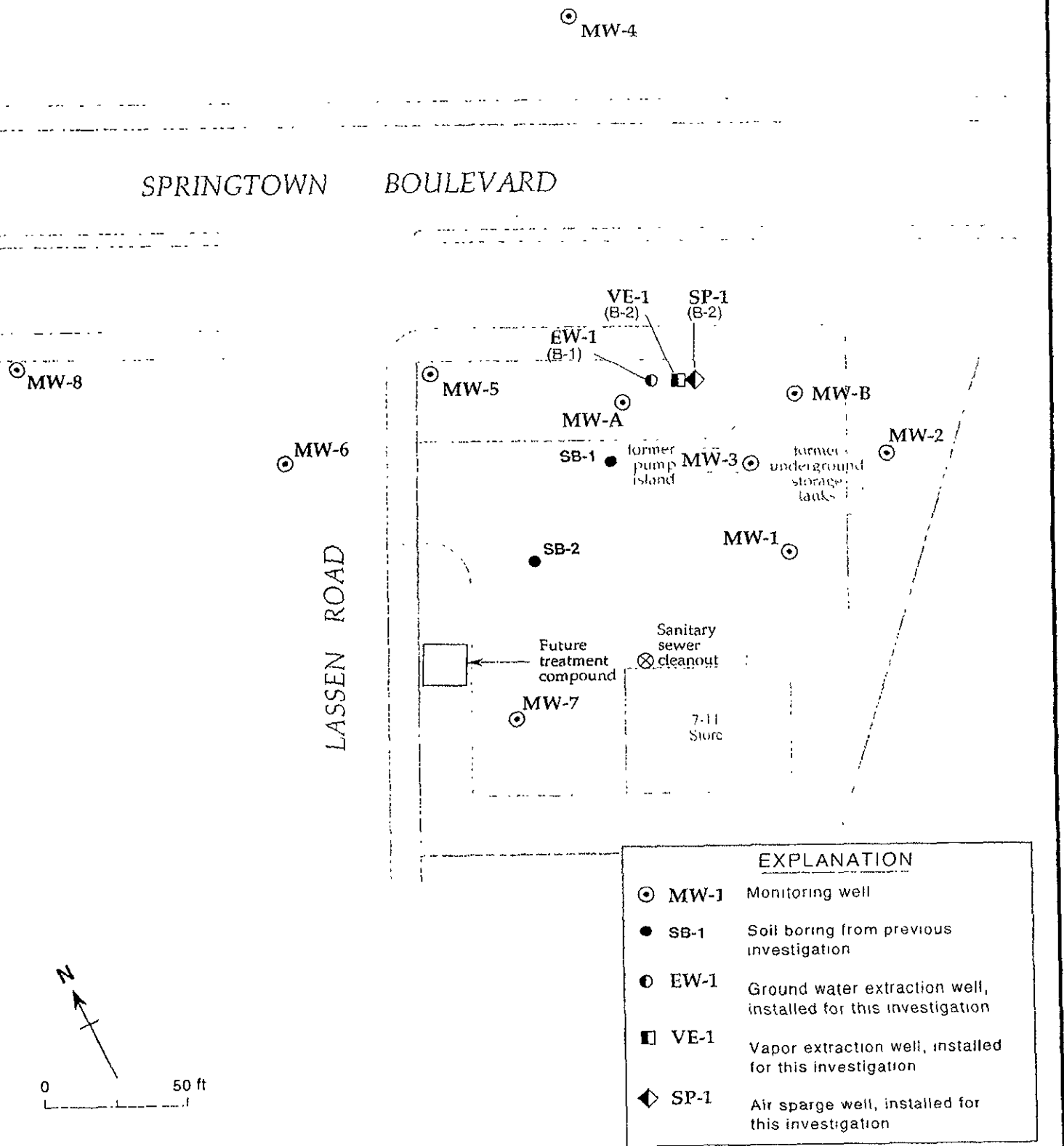
3.5 WELL SURVEY

KHM conducted a water well survey to determine the location of registered wells in the vicinity of the site and to identify potential receptors of the site's groundwater. The Alameda County Flood Control and Water Conservation District, Zone 7 provided a map with the locations of all registered wells within approximately ½ mile of the subject site. In addition, KHM visited the Zone 7 office in Pleasanton to obtain well construction information and data on any other wells identified in the site vicinity.

No registered wells were identified within ½ mile of the site. The two nearest registered wells, 3S2E3E2 and 3S2E3H1, are both located approximately 2,800 feet from the subject site (Figure 2). Well 3S2E3H1 is owned by PG&E. Its use is indicated as irrigation. KHM was able to locate the well and to confirm its location. The well is located upgradient of the site. Well 3S2E3E2 is reportedly a shallow 32-foot well. Registration data listed its usage as unknown. KHM attempted to locate the well in the field. No evidence of the well could be found in the area indicated on maps as the well location. The well location is on the opposite side of a low bedrock hill from the site (CDM&G, 1966). Local groundwater flow patterns and a long travel distance preclude impact groundwater from reaching the site from the well.

TABLE 2
SOIL PHYSICAL TESTING DATA
 Former Texaco Service Station
 930 Springtown Boulevard
 Livermore, California

Physical Parameter	Boring GP-2, 3- to 4-foot sample	Boring GP-2, 6.5- to 7 5- foot sample
Soil Type	Sandy Clay	Sandy Clay
Specific Gravity	2.75	2.8
Porosity (%)	38.1	37.5
Moisture Content (%)	18.2	19.3
Dry Density (pcf)	106.2	109.3
Organic Content (%)	1.6	1.1



Base map from Groundwater Technology, Inc

Figure 1. Site Plan and Well Location Map - Texaco Refining and Marketing Inc., 930 Springtown Boulevard, Livermore, California

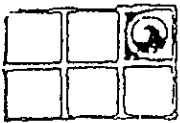


Well Number 1
 Project Texaco/Livermore Owner Southland Corp.
 Location Springtown&Lassen Project Number 20-4051
 Date Drilled 6-20-85 Total Depth of Hole 25 ft. Diameter 7.5 in.
 Surface Elevation _____ Water Level, Initial _____ 24 hrs. 11.68
 Screen Dia. 4-inch Length 20-feet Slot Size .020 in.
 Casing Dia. 4-inch Length 5-feet Type PVC
 Drilling Company Sierra Pacific Drilling Method H.S. Auger
 Driller Lynn Pera Log by Cori Condon

Sketch Map
 Notes

Depth (feet)	Well Construction	Notes	Sample Number	Graphic Log	Description/Soil Classification (Color, Texture Structures)
1		Blow Count			Asphalt and fill sand and gravel.
2					Brown sandy clay, damp, no odor.
6					Brown-green fine sand with subangular white gravels, damp, no odor.
7.5					Brown-green silty fine sand, stiff, damp, no odor.
10					Brown-green silty fine sand with rounded cobbles and gravels, moist, no odor.
12					Cobbles and gravels in fine sand, moist, no odor.
15		11-12-24	#1		Gray brown fine sand and silt, less cobbles and pea size gravels, moist, no odor.
20		12-18-18	#2		Gray-brown coarse sand, wet, no odor.
25					Gray-brown coarse sand, wet, no odor, contact with brown sandy clay.
					Drilled 25 feet Cased 20 feet slotted, 5 feet blank Aquarium sand to 3 feet Cement seal to surface Finish with steel manhole

000064442



GROUND WATER TECHNOLOGY

Division of Oil Recovery Systems, Inc.

Drilling Log

Well Number 2
 Project Texaco/Livermore Owner Southern Corp.
 Location Springtown & Lassen Project Number 20-4051
 Date Drilled 6-20-85 Total Depth of Hole 24 ft. Diameter 7.5 in.
 Surface Elevation _____ Water Level, Initial _____ 24-hrs 10.30
 Screen Dia 4-inch Length 20-feet Slot Size .020 in.
 Casing Dia 4-inch Length 4-feet Type PVC
 Drilling Company Sierra Pacific Drilling Method H.S. Auger
 Driller Lynn Pera Log by Cori Condon

Sketch Map

Notes

Depth (Feet)	Well Construction	Notes	Sample Number	Graphic Log	Description/Soil Classification (Color, Texture, Structures)
1		Slow Cuts			Asphalt and fill.
9.5					Red-brown clayey sand, occasional gravel, damp, no odor.
10		21-33-35	#3		Gray sand and gravel, wet, no odor.
15		9-25-25	#4		Gray sand and gravel, grading to cobbles, wet, very slight gas odor.
20		14-56+	Lost Sample		Gray sand and gravel, wet, slight gas odor, contact with sandy clay.
25					Drilled 25 feet Cased 20 feet slotted, 4 feet blank Aquarium sand to 3 feet Cement seal to surface Finished with steel manhole.

000064443



GROUND WATER TECHNOLOGY

Division of Oil Recovery Systems, Inc.

Drilling Log

Well Number 3

Project Texaco/Livermore Owner Sourbland Corp

Location Springtown & Lassen Project Number 20-4051

Date Drilled 6-20-85 Total Depth of Hole 24 ft Diameter 7.5 in

Surface Elevation _____ Water Level, Initial _____ 24-hrs. 11.59

Screen Dia. 4 inch Length 20 feet Slot Size .020 in

Casing Dia. 4 inch Length 4 feet Type PVC

Drilling Company Sierra Pacific Drilling Method W.S. Auger

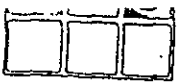
Driller Lynn Pera Log by Cori Gordon

Sketch Map

Notes

Depth (Feet)	Well Construction	Notes	Sample Number	Graphic Log	Description/Soil Classification (Color, Texture, Structures)
1					Asphalt and fill.
					Light brown sandy clay with occasional gravel, damp, no odor.
7					Light brown sandy clay with occasional gravel, moist, gasoline odor.
10		13-27-37	# 5	▽	Gray sand and gravel, wet, slight gasoline odor.
15		6-9-19	# 6		Gray sand and gravel, wet, slight gas odor, contact with sandy clay.
20		5-7-12	# 7		Mottled sandy clay, moist, slight gasoline odor.
25		8-22-25	# 8		Gray sand, wet, no odor.
26.5					Drilled 25 feet Cased 20 feet slotted, 4 feet blank Aquarium sand to 3 feet Cement seal to surface Finished with steel manhole

000064444



TECHNOLOGY

Division of Oil Recovery Systems, Inc.

Well Number 4

Drilling Log

Project Texaco/Livermore Owner Texaco U.S.A., Inc.
 Location Springtown/Bluebell Project Number 20-4051
 Date Drilled 9/10/85 Total Depth of Hole 25-ft. Diameter 7.5-ft.
 Surface Elevation _____ Water Level, Initial 10-ft. 24-hrs. 10.49
 Screen: Dia. 3-in. Length 20-ft. Slot Size .020-in.
 Casing: Dia. 3-in. Length 5-ft. Type PVC
 Drilling Company Sierra Pacific Drilling Method Hollow Stem Auger
 Driller Lynn Pera Log by C. Condon

Sketch Map

Notes

Depth (Feet)	Well Construction	Notes	Sample Number	Graphic Log	Description/Soil Classification (Color, Texture, Structures)
0					Dark brown silty clay, occasional gravel, damp, no odor.
1					
2					
3					Light brown sandy silt, damp, no odor.
4					
5					
6					
7					Light brown sandy clay, moist, no odor.
8					
9					
10		3-6-7	1		Light brown coarse sandy clay, wet, no odor.
11					
12					
13					
14					
15					
16					
17					
18					Drilled 27 feet
19					Sand Pack to 4 feet
20					Bentonite and Cement Seal to Surface, Finished
21					with Steel Locking Casing
22					
23					
24					
25					

000064445

Project Texaco/Livermore Owner Texaco U.S.A.
 Location 930 Springton Blvd Project Number 20-4051
 Date Drilled 11/10/86 Total Depth of Hole 30 ft Diameter 7.5 in.
 Surface Elevation _____ Water Level, Initial 12 ft. 24-hrs. _____
 Screen: Dia. 2 in. Length 25 ft. Slot Size .020 in.
 Casing: Dia. 2 in. Length 5 ft. Type PVC
 Drilling Company Sierra Pacific Drilling Method hollow stem auger
 Driller M. Isom Log by M. Winters

Sketch Map

Notes

Depth (Feet)	Well Construction	Notes	Sample Number	Graphic Log	Description/Soil Classification
0					Brown, silty clay, (some gravel and sand, very stiff, moist, no odor).
2			A 4		(Increase in sand, light brown color).
4			7		
6			10		(Decrease in sand, increase in moisture).
8			B 3	CL	
10			4		(Increase in sand and silt. organics).
12			8		11/10/86 (1000)
14			C 6		
16			17		Multi-colored, fine to coarse gravel, (some sand, poorly sorted, very dense, wet, moderate product odor).
18			42		
20			D 13	GP	(Slight product odor).
22			21		
24			36		
			E 7		
			21		
			32		

000064446



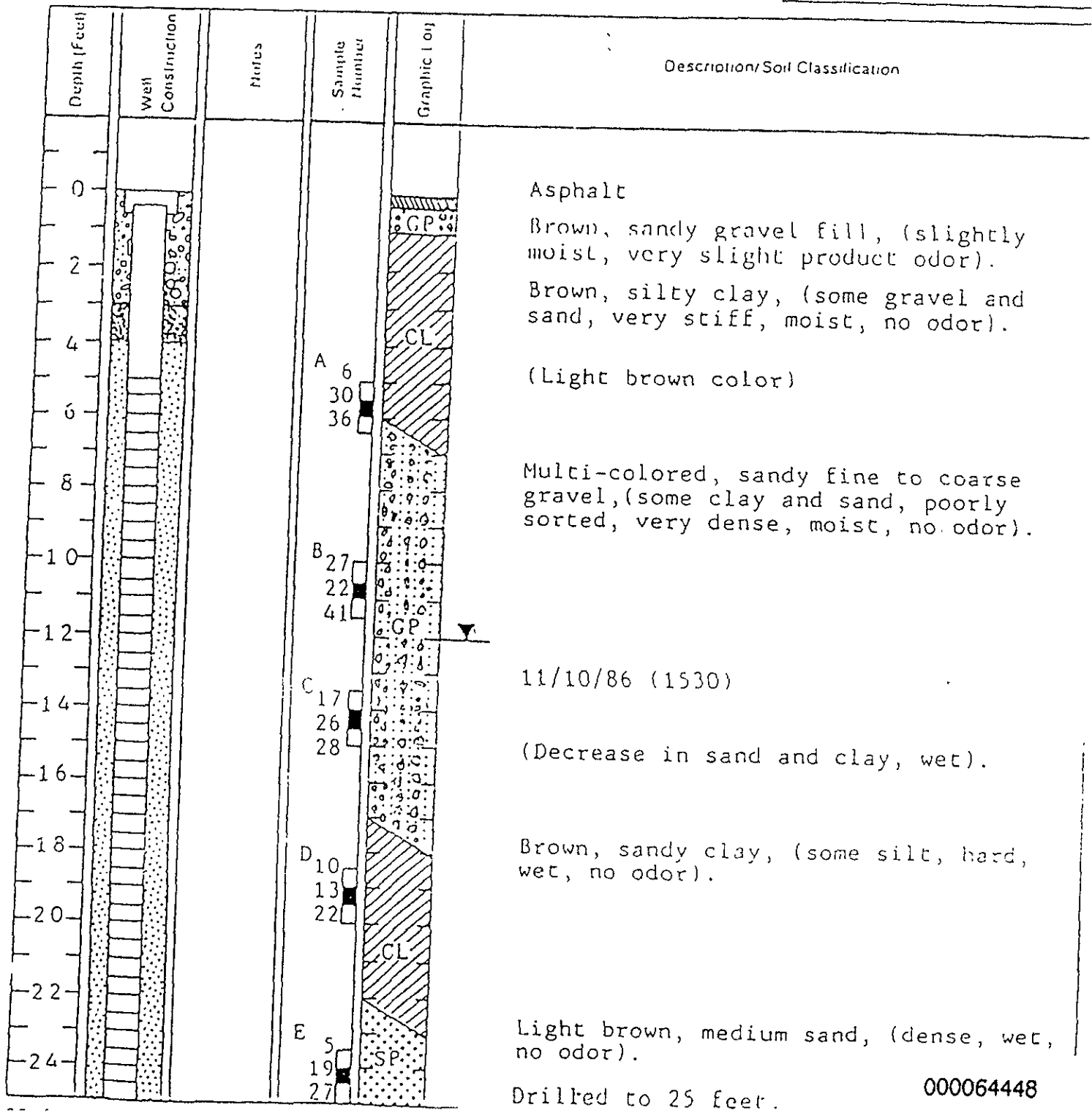
Depth (Feet)	Well Construction	Notes	Sample Number	Graphic Log	Description/Soil Classification (Color, Texture, Structures)
25				CL	Brown, sandy clay, (hard, wet, very slight product odor).
28			F 100	SP	Light brown, medium sand, (wet, very slight product odor).
30			18 25	GP	Multi-colored, sandy fine to coarse gravel, (some clay and silt, poorly sorted, dense, wet, very slight product odor).
32					
34					Drilled to 30 feet.
36					
38					
40					
42					
44					
46					
48					
50					
52					
54					
56					
58					

000064447

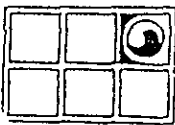
Project Texaco/Livermore Owner Texaco U.S.A.
 Location 930 Springton Blvd. Project Number 20-4051
 Date Drilled 11/10/86 Total Depth of Hole 25 ft Diameter 7.5 in.
 Surface Elevation _____ Water Level Initial 13 ft. 24-hrs. _____
 Screen: Dia 2 in. Length 20 ft. Slot Size .020 in.
 Casing: Dia 2 in. Length 5 ft. Type PVC
 Drilling Company Sierra Pacific Drilling Method hollow stem auger
 Driller M. Isom Log by M. Winters

Sketch Map

Notes



000064448



GROUNDWATER TECHNOLOGY, INC.

Monitoring Well 7

Drilling Log

Sketch Map

Project Texaco/Livermore Owner Texaco Refining and Marketing
 Location Livermore Project Number 203 150 4051
 Date Drilled 12/5/89 Total Depth of Hole 25 ft Diameter 10.5 in
 Surface Elevation _____ Water Level Initial 13 ft 24-hour _____
 Screen: Dia. 4 in Length 20 ft Slot Size 0.020 in
 Casing: Dia. 4 in Length 5 ft Type Sch. 40 PVC
 Drilling Company Sierra Pacific Drilling Method hollow stem auger
 Driller Chris DeSocio Log by Steve Kranyak
 Geologist/Engineer _____ License No. _____

SEE SITE MAP

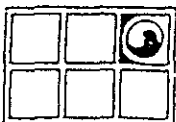
Notes

Continuously sampled

Depth (feet)	Well Construction	PID (ppm)	Sample	Graphic Log	Description/Soil Classification (Color, Texture, Structure)
0		0			3 inches asphalt over 2 inches aggregate base
2		0		CL	Brown gravelly, silty, sandy clay (soft, slightly moist, no product odor)
4		0			
6		0	A		Brown sandy, silty, gravelly clay (stiff, slightly moist, stiff, no product odor)
8		0		CL	(grades more stiff)
10		0	B		
12		0	C		(grades light brown and tan)
14		0			▼ Encountered water 12/5/89 (15:30 hours) (grades wet)
16		0	D		
18		0	E		Brown and black mottled sandy, silty, clayey gravel (loose, wet, no product odor)
20		0		GC	
22		0			(grades coarser)
24		0	F		

000064449

End of drilling, installed monitoring well to 25



GROUNDWATER TECHNOLOGY, INC.

Monitoring Well 8

Drilling Log

Sketch Map

Project Texaco/Livermore Owner Texaco Refining and Marketing

Location Livermore Project Number 203 150 4051

Date Drilled 12/6/89 Total Depth of Hole 25 ft Diameter 10.5 in

Surface Elevation _____ Water Level Initial 15 ft 24-hour _____

Screen: Dia. 4 in Length 20 ft Slot Size 0.02 in

Casing: Dia. 4 in Length 5 ft Type _____

Drilling Company _____ Drilling Method hollow stem auger

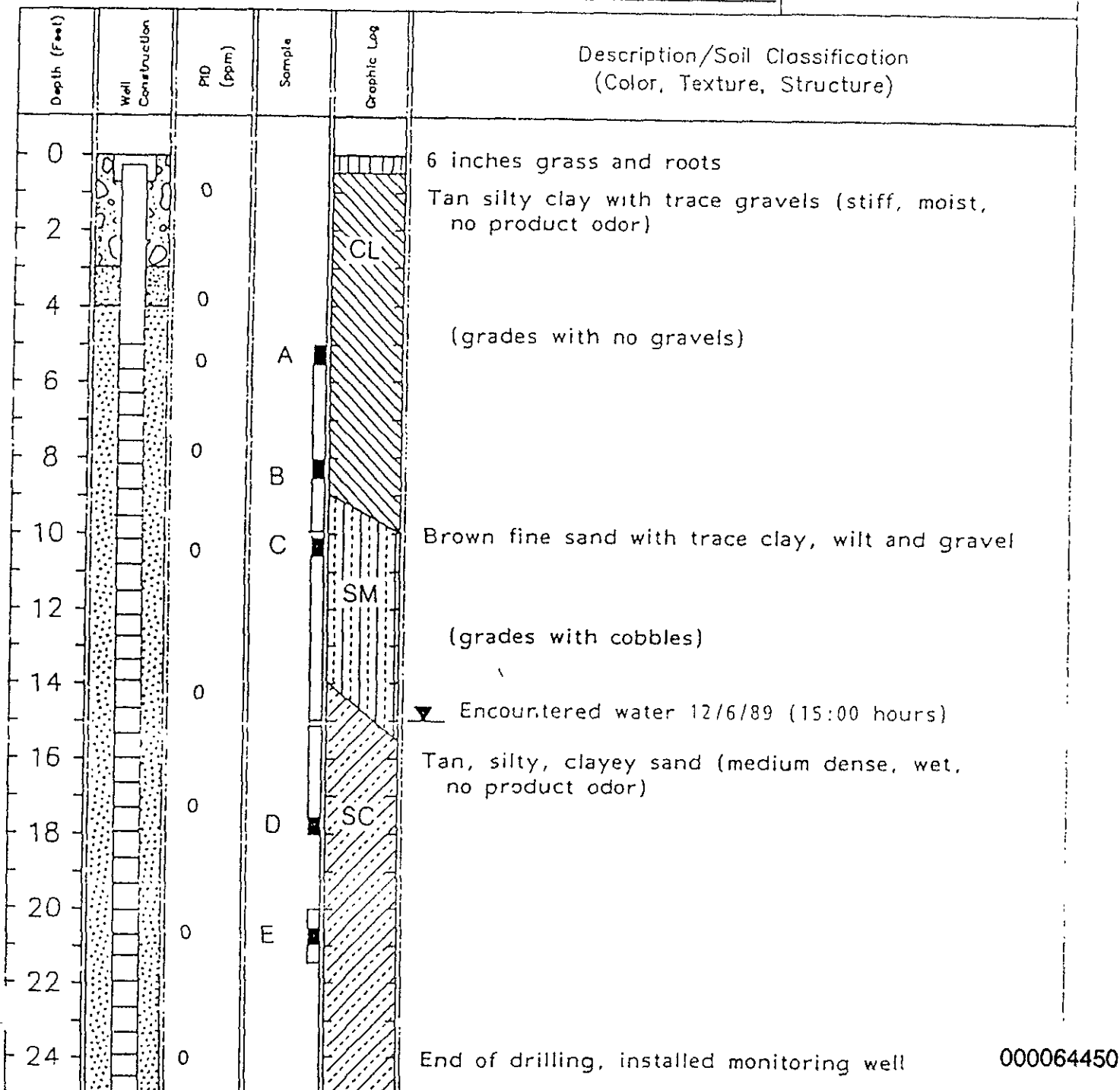
Driller Chris DeSocio Log by Steve Kranyak

Geologist/Engineer _____ License No. _____

SEE SITE MAP

Notes

Continuously sampled



000064450

Date Completed: 1/20/89

Sampler: Modified California Sampler 2.5" O D 2.0" I.D.

Logged By: Timothy Hunting

Total Depth: 10.0 ft

Hammer Wt: 140 lbs.

Depth, ft	FIELD		LABORATORY				Pen, tsf	DESCRIPTION
	Sample	Blows/ft	Org Densitypcf	Moisture Content %	Compress. strength tsf	Other Tests		
								Surface Elevation: 520 ft
								ASPHALT - deteriorated.
		40	109	18	3.0	LL = 41 PI = 19	4.5+	CLAYEY GRAVEL (GC) - medium dense, brown, wet.
		20	106	19			4.5+	SILTY CLAY (CL) - very stiff, light reddish brown, wet, trace fine sand. - stiff, grading to tan, increased silt content
5		6					0.5	- soft, greenish gray, wet, strong gasoline odor.
		15					2.5	SANDY CLAY (CL) - soft, reddish brown, wet, strong odor. - firm, reddish brown mottled with gray, orange, and dark brown, wet, mild odor.
10								
15								
20								

000064451



KLEINFELDER

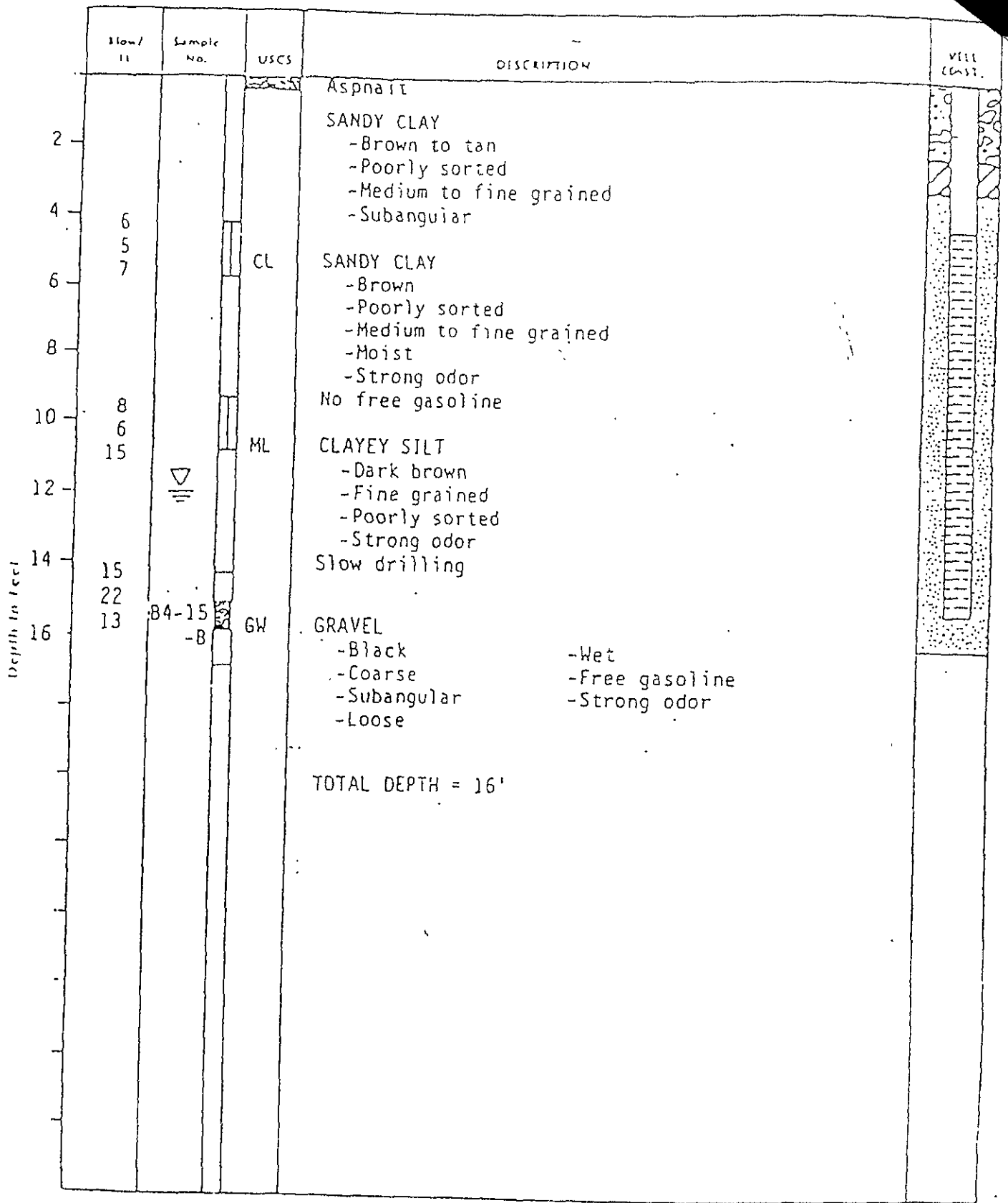
SPRINGTOWN 7-ELEVEN
LIVERMORE, CALIFORNIA

PLATE

PROJECT NO. 11-1978-01

LOG OF BORING NO. B-2

5



000064456

H. KLEINFELDER & ASSOCIATES
 GEOTECHNICAL CONSULTANTS - MATERIALS TESTING

PROPOSED 7-11 STORE
 SPRINGTOWN BLVD. AND LASSEN RD
 LIVERMORE, CA
 LOG OF BORING NO. B-4

PLATE

4

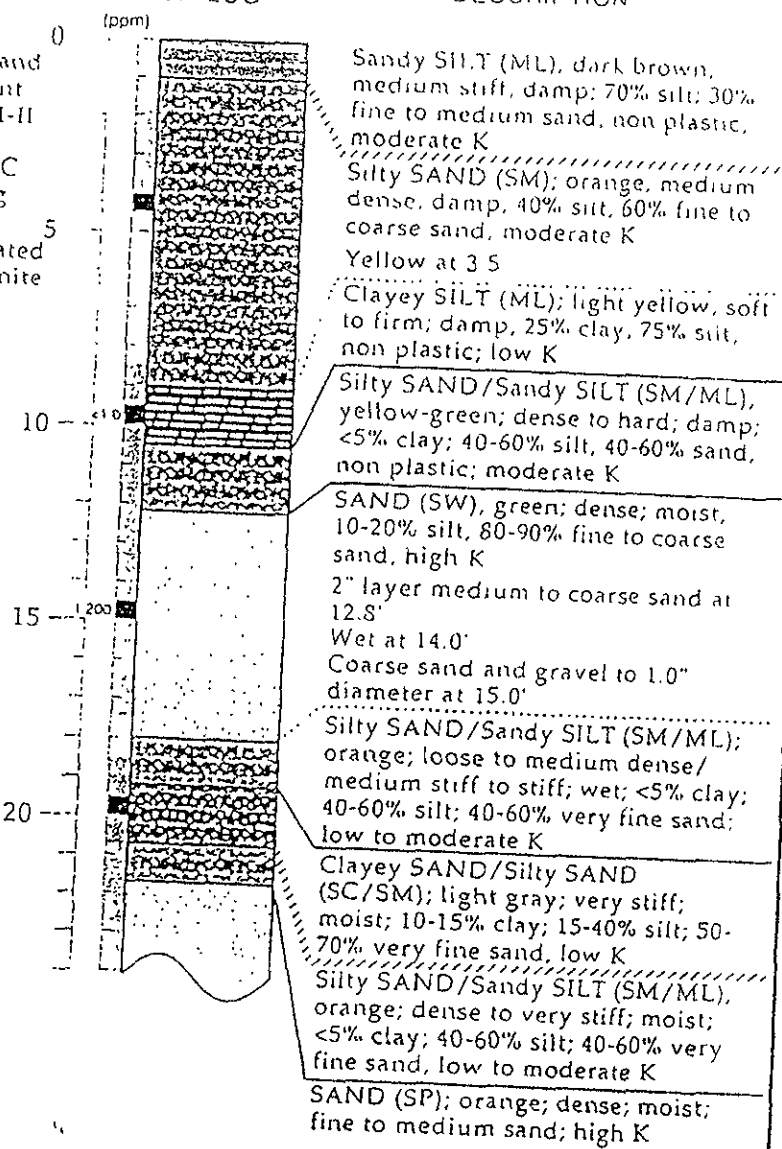
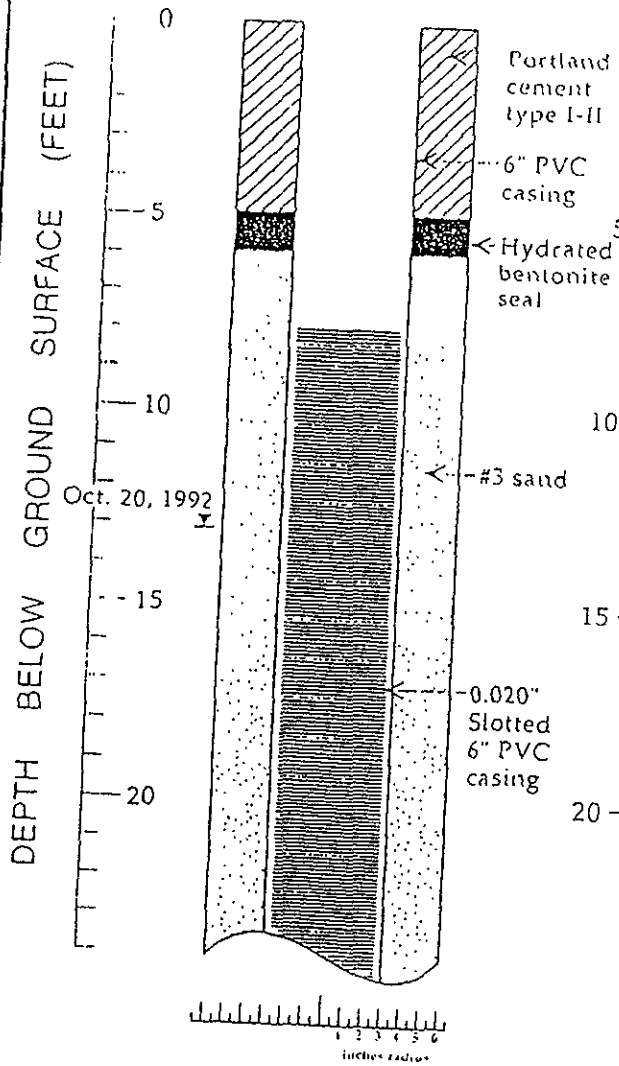
PROJECT NO. B-1423-1



WELL EW-1 (B-1)

TPH-G GRAPHIC
concentration LOG

DESCRIPTION



Sandy SILT (ML), dark brown, medium stiff, damp; 70% silt; 30% fine to medium sand, non plastic, moderate K

Silty SAND (SM); orange, medium dense, damp, 40% silt, 60% fine to coarse sand, moderate K

Yellow at 3.5

Clayey SILT (ML); light yellow, soft to firm; damp, 25% clay, 75% silt, non plastic; low K

Silty SAND/Sandy SILT (SM/ML), yellow-green; dense to hard; damp; <5% clay; 40-60% silt, 40-60% sand, non plastic; moderate K

SAND (SW), green; dense; moist, 10-20% silt, 80-90% fine to coarse sand, high K

2" layer medium to coarse sand at 12.8'

Wet at 14.0'

Coarse sand and gravel to 1.0" diameter at 15.0'

Silty SAND/Sandy SILT (SM/ML); orange; loose to medium dense/medium stiff to stiff; wet; <5% clay; 40-60% silt; 40-60% very fine sand; low to moderate K

Clayey SAND/Silty SAND (SC/SM); light gray; very stiff; moist; 10-15% clay; 15-40% silt; 50-70% very fine sand, low K

Silty SAND/Sandy SILT (SM/ML), orange; dense to very stiff; moist; <5% clay; 40-60% silt; 40-60% very fine sand, low to moderate K

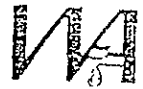
SAND (SP); orange; dense; moist; fine to medium sand; high K

EXPLANATION

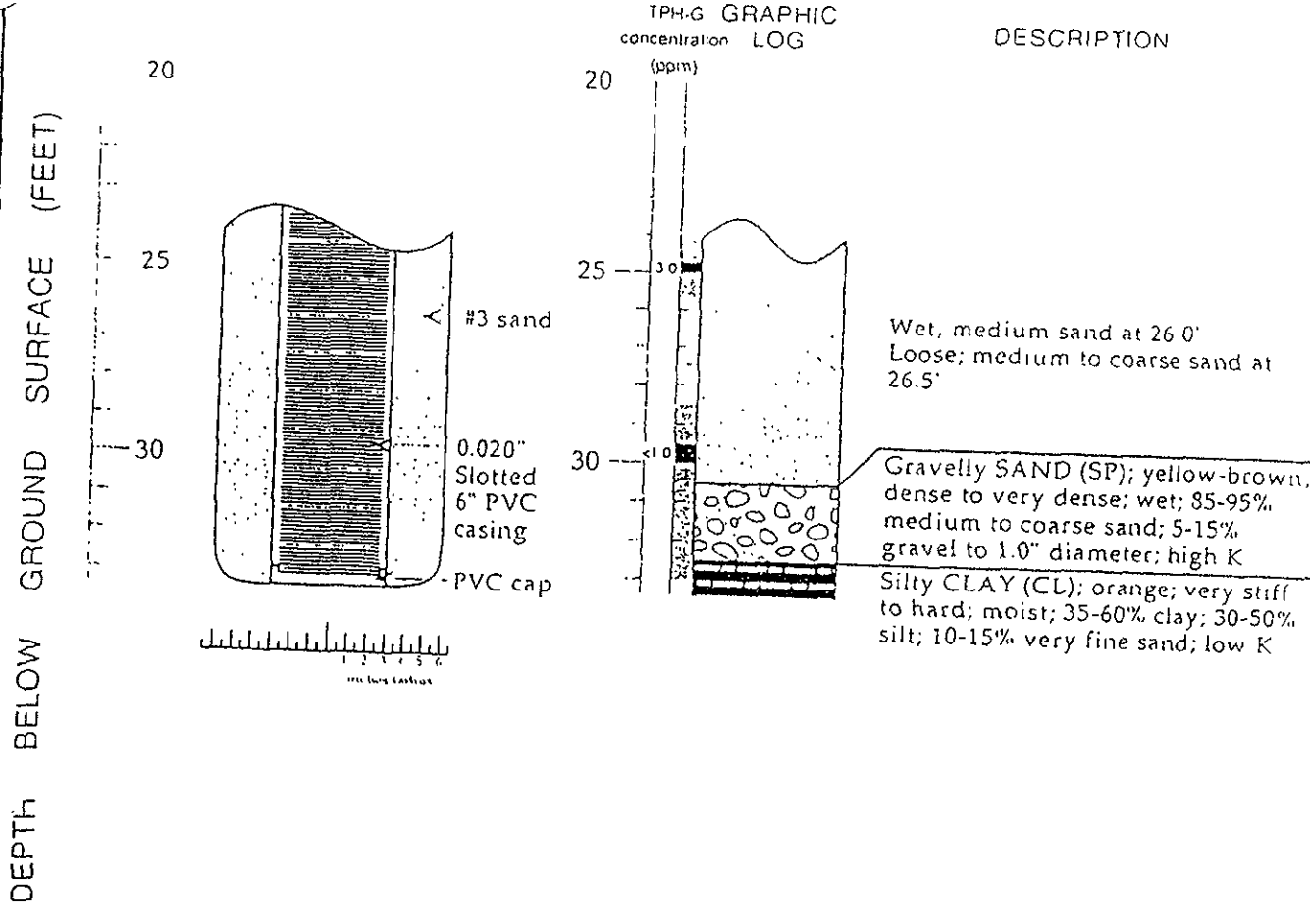
- Y Water level during drilling (date)
- ∇ Water level (date)
- Contact (dotted where approximate)
- ?-?-? Uncertain contact
- //// Gradational contact
- Location of recovered drive sample
- Location of drive sample sealed for chemical analysis
- Cutting sample
- K = Estimated hydraulic conductivity

Logged By Eric Anderson
 Supervisor Joseph P. Theisen, CEG 1645
 Drilling Company HEW Drilling, East Palo Alto, CA
 License Number C57-384167
 Driller Tomas Jarne
 Drilling Method 6" and 12" O D hollow-stem auger
 Date Drilled October 19-20, 1992
 Well Log Completion Temporary, traffic-rated vault
 Type of Sampler Split barrel (1.5", 2", 2.5" ID)
 Ground Surface Elevation: Approximately 520 feet above mean sea level

TPH-G. Total petroleum hydrocarbon as gasoline in soil by EPA Method 5030 with GC/FID



WELL EW-1 (B-1) (cont.)



Drilling Log and Well Construction Details - Well EW-1 (B-1) - Former Texaco Service Station, 930
 Springtown Boulevard, Livermore, California

000064458

WELL CONCENTRATIONS
Former Texaco Service Station
930 Springtown Boulevard
Livermore, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
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MW-A	01/02/1992	NA	NA	NA	NA	NA	NA	NA	520.10	13.61	506.49
MW-A	04/02/1992	27000	1200	570	1700	2300	NA	NA	520.10	12.44	507.66
MW-A	07/21/1992	57000	1500	1800	2700	7100	NA	NA	520.10	13.35	506.75
MW-A	10/09/1992	56000	2900	2600	4600	12000	NA	NA	520.10	12.92	507.18
MW-A	01/11/1993	NA	NA	NA	NA	NA	NA	NA	520.10	11.78	508.32
MW-A	05/05/1993	NA	NA	NA	NA	NA	NA	NA	520.10	11.39	508.71
MW-A	08/09/1993	NA	NA	NA	NA	NA	NA	NA	520.10	12.80	507.30
MW-A	10/14/1993	NA	NA	NA	NA	NA	NA	NA	520.10	13.48	506.62
MW-A	01/24/1994	1400000	6900	2100	15000	38000	NA	NA	520.10	12.74	507.36
MW-A	05/31/1994	48000	1200	900	1900	4200	NA	NA	520.10	12.28	507.82
MW-A	08/31/1994	24000	140	120	830	1500	NA	NA	520.10	13.20	506.90
MW-A	11/02/1994	15000	230	360	1100	1800	NA	NA	520.10	13.15	506.95
MW-A	02/20/1995	12000	290	330	570	1300	NA	NA	520.10	11.71	508.39
MW-A	05/09/1995	1200	6.1	5.9	12	15	NA	NA	520.10	12.37	507.73
MW-A	08/21/1995	9600	85	140	250	860	160	NA	520.10	11.37	508.73
MW-A	10/20/1995	360	5.2	7.9	15	43	NA	NA	520.10	12.04	508.06
MW-A	02/07/1996	6100	130	180	320	840	NA	NA	520.10	10.11	509.99
MW-A	04/30/1996	410	1.2	0.67	1.2	1.5	NA	NA	520.10	10.28	509.82
MW-A	08/14/1996	3000	65	75	170	460	57	NA	520.10	10.82	509.28
MW-A	11/22/1996	6300	100	170	310	710	64	NA	520.10	10.97	509.13
MW-A	02/14/1997	8100	140	180	700	1600	<300	NA	520.10	10.00	510.10
MW-A	05/23/1997	24000	340	520	1600	3800	<2000	NA	520.10	11.36	508.74
MW-A	07/25/1997	440	<0.5	<0.5	<0.5	<0.5	<30	NA	520.10	11.66	508.44
MW-A	10/31/1997	3700	21	48	200	430	35	NA	520.10	11.56	508.54
MW-A	02/06/1998	1500	2.1	4.4	55	77	<30	NA	520.10	9.00	511.10

WELL CONCENTRATIONS
Former Texaco Service Station
930 Springtown Boulevard
Livermore, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
MW-A	05/19/1998	32000	310	380	1800	3700	1300	NA	520.10	9.85	510.25
MW-A	07/31/1998	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	520.10	10.04	510.06
MW-A	11/04/1998	15000	86	180	960	1800	<50	<50	520.10	11.09	509.01
MW-A	11/11/1999	1010	4.72	<2.50	26.1	59.9	87.6	<0.500	520.10	11.39	508.71
MW-A	04/03/2000	12800	23.8	54.9	704	1070	242	NA	520.10	10.41	509.69
MW-A	10/16/2000	4810	51.6	<20.0	251	434	108	<10.0	520.10	11.59	508.51
MW-A	06/28/2001	1100	1.2	2.4	51	64	NA	<0.50	520.10	12.13	507.97

MW-B	01/02/1992	NA	NA	NA	NA	NA	NA	NA	518.05	11.27	506.78
MW-B	04/02/1992	1900	ND	39	24	35	NA	NA	518.05	10.18	507.87
MW-B	07/21/1992	16000	180	1600	270	1100	NA	NA	518.05	11.27	506.78
MW-B	10/09/1992	38000	490	8300	1400	5100	NA	NA	518.05	11.64	506.41
MW-B	01/11/1993	NA	NA	NA	NA	NA	NA	NA	518.05	9.65	508.40
MW-B	05/05/1993	NA	NA	NA	NA	NA	NA	NA	518.05	9.28	508.77
MW-B	08/09/1993	NA	NA	NA	NA	NA	NA	NA	518.05	11.02	507.03
MW-B	10/14/1993	NA	NA	NA	NA	NA	NA	NA	518.05	11.34	506.71
MW-B	01/24/1994	23000	110	1700	600	1900	NA	NA	518.05	10.54	507.51
MW-B	05/31/1994	13000	780	310	370	1400	NA	NA	518.05	10.19	507.86
MW-B	08/31/1994	35000	160	2800	1000	4500	NA	NA	518.05	10.98	507.07
MW-B	11/02/1994	2500	170	3200	1100	4700	NA	NA	518.05	10.90	507.15
MW-B	02/20/1995	10000	46	1400	330	1200	NA	NA	518.05	9.47	508.58
MW-B	05/09/1995	4100	9.1	47	26	30	NA	NA	518.05	10.58	507.47
MW-B	08/21/1995	4000	9.6	110	120	270	98	NA	518.05	9.34	508.71
MW-B	10/20/1995	9300	35	1300	370	1300	NA	NA	518.05	9.83	508.22
MW-B	02/07/1996	8900	33	700	110	360	NA	NA	518.05	7.85	510.20
MW-B	04/30/1996	5500	17	460	120	400	NA	NA	518.05	8.02	510.03

WELL CONCENTRATIONS
Former Texaco Service Station
930 Springtown Boulevard
Livermore, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
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MW-B	08/14/1996	9000	<5	260	120	320	<300	NA	518.05	8.66	509.39
MW-B	11/22/1996	560000	56	2400	1600	5500	<3000	NA	518.05	8.70	509.35
MW-B	02/14/1997	4600	5.2	110	72	210	<300	NA	518.05	7.75	510.30
MW-B	05/23/1997	34000	75	1700	590	2100	1800	NA	518.05	9.05	509.00
MW-B	07/25/1997	39000	250	5200	1600	5900	<800	NA	518.05	9.37	508.68
MW-B	10/31/1997	36000	130	2600	1200	4800	<800	NA	518.05	9.29	508.76
MW-B	02/06/1998	4800	10	120	72	200	<80	NA	518.05	6.68	511.37
MW-B	05/19/1998	25000	200	900	410	1600	570	NA	518.05	7.57	510.48
MW-B	07/31/1998	580	<0.5	<0.5	<0.5	<0.5	14	NA	518.05	8.03	510.02
MW-B	11/04/1998	24000	150	1400	850	2400	<50	<66	518.05	8.85	509.20
MW-B	11/11/1999	685	7.22	14.7	6.10	17.8	<12.5	NA	518.05	9.03	509.02
MW-B	04/03/2000	9250	106	477	346	1320	231	<1.00a	518.05	8.14	509.91
MW-B	10/16/2000	1280	14.5	13.8	13.3	38.8	26.5	NA	518.05	9.42	508.63
MW-B	06/28/2001	16000	29	550	470	1700	NA	<2.5	518.05	9.81	508.24

MW-1	01/02/1992	16	6	ND	ND	ND	NA	NA	520.61	14.11	506.50
MW-1	04/02/1992	ND	ND	ND	ND	ND	NA	NA	520.61	12.98	507.63
MW-1	07/21/1992	<50	3.2	<0.5	<0.5	<0.5	NA	NA	520.61	13.92	506.69
MW-1	10/09/1992	<50	8.5	<0.5	<0.5	<0.5	NA	NA	520.61	14.25	506.36
MW-1	01/11/1993	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	520.61	12.30	508.31
MW-1	05/05/1993	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	520.61	11.88	508.73
MW-1	08/09/1993	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	520.61	13.63	506.98
MW-1	10/14/1993	440	16	2.9	2.9	11	NA	NA	520.61	13.91	506.70
MW-1	01/24/1993	NA	NA	NA	NA	NA	NA	NA	520.61	13.12	507.49
MW-1	05/31/1994	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	520.61	12.74	507.87
MW-1	08/31/1994	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	520.61	13.68	506.93

WELL CONCENTRATIONS
Former Texaco Service Station
930 Springtown Boulevard
Livermore, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
MW-1	11/02/1994	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	520.61	13.48	507.13
MW-1	02/20/1995	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	520.61	12.02	508.59
MW-1	05/09/1995	450	22	25	23	100	NA	NA	520.61	12.83	507.78
MW-1	08/21/1995	58	<0.5	1.5	1.8	4.5	<10	NA	520.61	11.93	508.68
MW-1	10/20/1995	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	520.61	12.40	508.21
MW-1	02/07/1996	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	520.61	10.42	510.19
MW-1	04/30/1996	NA	NA	NA	NA	NA	NA	NA	520.61	10.48	510.13
MW-1	08/14/1996	<50	<0.5	<0.5	<0.5	<0.5	<30	NA	520.61	11.18	509.43
MW-1	11/22/1996	NA	NA	NA	NA	NA	NA	NA	520.61	11.10	509.51
MW-1	02/14/1997	<50	<0.5	<0.5	<0.5	<0.5	<30	NA	520.61	10.25	510.36
MW-1	05/23/1997	NA	NA	NA	NA	NA	NA	NA	520.61	11.48	509.13
MW-1	07/25/1997	<50	<0.5	<0.5	<0.5	<0.5	<30	NA	520.61	11.99	508.62
MW-1	10/31/1997	NA	NA	NA	NA	NA	NA	NA	520.61	11.74	508.87
MW-1	02/06/1998	<50	<0.5	<0.5	<0.5	<0.5	<30	NA	520.61	9.27	511.34
MW-1	05/19/1998	NA	NA	NA	NA	NA	NA	NA	520.61	10.51	510.10
MW-1	07/31/1998	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	520.61	10.41	510.20
MW-1	11/04/1998	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	520.61	11.32	509.29
MW-1	11/11/1999	82.5	6.35	7.08	4.76	10.9	3.13	1.08	520.61	11.54	509.07
MW-1	04/03/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	520.61	10.65	509.96
MW-1	10/16/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	520.61	11.91	508.70
MW-1	06/28/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	0.65	520.61	12.37	508.24
MW-2	01/02/1992	ND	ND	ND	ND	ND	NA	NA	518.29	11.96	506.33
MW-2	04/02/1992	ND	ND	ND	ND	ND	NA	NA	518.29	10.89	507.40
MW-2	07/21/1992	NA	NA	NA	NA	NA	NA	NA	518.29	11.55	506.74
MW-2	05/31/1994	NA	NA	NA	NA	NA	NA	NA	518.29	10.37	507.92

WELL CONCENTRATIONS
Former Texaco Service Station
930 Springtown Boulevard
Livermore, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
MW-2	08/31/1994	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	518.29	11.16	507.13
MW-2	11/02/1994	NA	NA	NA	NA	NA	NA	NA	518.29	11.07	507.22
MW-2	02/20/1995	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	518.29	9.66	508.63
MW-2	05/09/1995	NA	NA	NA	NA	NA	NA	NA	518.29	10.14	508.15
MW-2	08/21/1995	<50	<0.5	<0.5	<0.5	<0.5	<10	NA	518.29	9.58	508.71
MW-2	10/20/1995	NA	NA	NA	NA	NA	NA	NA	518.29	9.91	508.38
MW-2	02/07/1996	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	518.29	8.00	510.29
MW-2	04/30/1996	NA	NA	NA	NA	NA	NA	NA	518.29	8.21	510.08
MW-2	08/14/1996	<50	<0.5	<0.5	<0.5	<0.5	<30	NA	518.29	8.88	509.41
MW-2	11/22/1996	NA	NA	NA	NA	NA	NA	NA	518.29	8.88	509.41
MW-2	02/14/1997	<50	<0.5	<0.5	<0.5	<0.5	<30	NA	518.29	7.92	510.37
MW-2	05/23/1997	NA	NA	NA	NA	NA	NA	NA	518.29	9.25	509.04
MW-2	07/25/1997	<50	<0.5	<0.5	<0.5	<0.5	<30	NA	518.29	9.51	508.78
MW-2	10/31/1997	NA	NA	NA	NA	NA	NA	NA	518.29	9.30	508.99
MW-2	02/06/1998	<50	<0.5	<0.5	<0.5	1.4	<30	NA	518.29	6.88	511.41
MW-2	05/19/1998	NA	NA	NA	NA	NA	NA	NA	518.29	8.35	509.94
MW-2	07/31/1998	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	518.29	8.14	510.15
MW-2	11/04/1998	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	518.29	9.00	509.29
MW-2	11/11/1999	65.8	6.34	7.04	4.71	10.8	3.21	1.04	518.29	9.19	509.10
MW-2	04/03/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	518.29	8.31	509.98
MW-2	10/16/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	518.29	9.36	508.93
MW-2	06/28/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	<0.50	518.29	9.88	508.41
MW-3	01/02/1992	340	0.4	ND	ND	ND	NA	NA	519.60	12.87	506.73
MW-3	04/02/1992	160	5	ND	0.3	0.5	NA	NA	519.60	11.97	507.63
MW-3	07/21/1992	260	1.7	<0.5	<0.5	<0.5	NA	NA	519.60	12.60	507.00

WELL CONCENTRATIONS
Former Texaco Service Station
930 Springtown Boulevard
Livermore, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
MW-3	10/09/1992	88	<0.5	<0.5	<0.5	<0.5	NA	NA	519.60	12.93	506.67
MW-3	01/11/1993	130	<0.5	<0.5	<0.5	<0.5	NA	NA	519.60	11.16	508.44
MW-3	05/05/1993	340	1.8	<0.5	1.3	<0.5	NA	NA	519.60	10.72	508.88
MW-3	08/09/1993	610	18	<0.5	2.4	0.9	NA	NA	519.60	12.34	507.26
MW-3	10/14/1993	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	519.60	12.71	506.89
MW-3	01/24/1994	320	3.5	<0.5	<0.5	<0.5	NA	NA	519.60	12.03	507.57
MW-3	05/31/1994	830	11	12	5.0	1.2	NA	NA	519.60	11.54	508.06
MW-3	08/31/1994	660	2	<0.5	1	<0.5	NA	NA	519.60	12.60	507.00
MW-3	11/02/1994	1500	260	36	34	76	NA	NA	519.60	12.16	507.44
MW-3	02/20/1995	410	1.2	1.9	1.4	2.2	NA	NA	519.60	11.05	508.55
MW-3	05/09/1995	730	23	43	21	95	NA	NA	519.60	11.97	507.63
MW-3	08/21/1995	<50	<0.5	<0.5	<0.5	<0.5	<10	NA	519.60	7.60	512.00
MW-3	10/20/1995	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	519.60	11.46	508.14
MW-3	02/07/1996	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	519.60	9.42	510.18
MW-3	04/30/1996	NA	NA	NA	NA	NA	NA	NA	519.60	9.60	510.00
MW-3	08/14/1996	<50	<0.5	0.60	<0.5	<0.5	<30	NA	519.60	10.24	509.36
MW-3	11/22/1996	NA	NA	NA	NA	NA	NA	NA	519.60	10.34	509.26
MW-3	02/14/1997	<50	<0.5	<0.5	<0.5	<0.5	<30	NA	519.60	9.38	510.22
MW-3	05/23/1997	NA	NA	NA	NA	NA	NA	NA	519.60	10.67	508.93
MW-3	07/25/1997	<50	<0.5	<0.5	<0.5	<0.5	<30	NA	519.60	11.11	508.49
MW-3	10/31/1997	NA	NA	NA	NA	NA	NA	NA	519.60	10.86	508.74
MW-3	02/06/1998	63	1.5	2.8	0.77	8.6	<30	NA	519.60	8.41	511.19
MW-3	05/19/1998	NA	NA	NA	NA	NA	NA	NA	519.60	9.40	510.20
MW-3	07/31/1998	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	519.60	9.04	510.56
MW-3	11/04/1998	230	11	7.2	7.6	33	18	14	519.60	10.45	509.15
MW-3	11/11/1999	569	103	47.1	14.1	29.6	521	604	519.60	10.73	508.87

WELL CONCENTRATIONS
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Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
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MW-3	04/03/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	519.60	9.78	509.82
MW-3	10/16/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	519.60	10.97	508.63
MW-3	06/28/2001	110	<0.50	<0.50	0.56	1.8	NA	1.8	519.60	11.49	508.11

MW-4	01/02/1992	ND	ND	ND	ND	ND	NA	NA	518.79	12.22	506.57
MW-4	04/02/1992	ND	ND	ND	ND	ND	NA	NA	518.79	11.03	507.76
MW-4	07/21/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	518.79	12.36	506.43
MW-4	10/09/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	518.79	12.40	506.39
MW-4	01/11/1993	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	518.79	10.72	508.07
MW-4	05/05/1993	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	518.79	10.21	508.58
MW-4	08/09/1993	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	518.79	12.25	506.54
MW-4	10/14/1993	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	518.79	12.58	506.21
MW-4	01/24/1994	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	518.79	11.72	507.07
MW-4	05/31/1994	NA	NA	NA	NA	NA	NA	NA	518.79	11.29	507.50
MW-4	08/31/1994	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	518.79	12.00	506.79
MW-4	11/02/1994	NA	NA	NA	NA	NA	NA	NA	518.79	11.96	506.83
MW-4	02/20/1995	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	518.79	10.42	508.37
MW-4	05/09/1995	NA	NA	NA	NA	NA	NA	NA	518.79	11.22	507.57
MW-4	08/21/1995	<50	<0.5	<0.5	<0.5	<0.5	<10	NA	518.79	10.51	508.28
MW-4	10/20/1995	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	518.79	10.86	507.93
MW-4	02/07/1996	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	518.79	8.93	509.86
MW-4	04/30/1996	NA	NA	NA	NA	NA	NA	NA	518.79	9.03	509.76
MW-4	08/14/1996	<50	<0.5	<0.5	<0.5	<0.5	<30	NA	518.79	9.84	508.95
MW-4	11/22/1996	NA	NA	NA	NA	NA	NA	NA	518.79	9.73	509.06
MW-4	02/14/1997	<50	<0.5	<0.5	<0.5	<0.5	<30	NA	518.79	8.85	509.94
MW-4	05/23/1997	NA	NA	NA	NA	NA	NA	NA	518.79	10.15	508.64

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Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
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MW-4	07/25/1997	<50	<0.5	<0.5	<0.5	<0.5	<30	NA	518.79	10.61	508.18
MW-4	10/31/1997	NA	NA	NA	NA	NA	NA	NA	518.79	10.36	508.43
MW-4	02/06/1998	<50	<0.5	<0.5	<0.5	<0.5	<30	NA	518.79	7.46	511.33
MW-4	05/19/1998	NA	NA	NA	NA	NA	NA	NA	518.79	8.91	509.88
MW-4	07/31/1998	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	518.79	8.99	509.80
MW-4	11/04/1998	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	518.79	10.08	508.71
MW-4	11/11/1999	83.6	6.50	7.52	4.31	9.59	<2.50	NA	518.79	9.81	508.98
MW-4	04/03/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	518.79	9.24	509.55
MW-4	10/16/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	518.79	10.49	508.30
MW-4	06/28/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	<0.50	518.79	10.82	507.97

MW-5	01/02/1992	1800	74	41	84	94	NA	NA	521.19	14.56	506.63
MW-5	04/02/1992	ND	ND	ND	ND	ND	NA	NA	521.19	13.58	507.61
MW-5	07/21/1992	1000	69	16	40	31	NA	NA	521.19	13.77	507.42
MW-5	10/09/1992	3400	890	51	110	110	NA	NA	521.19	14.09	507.10
MW-5	01/11/1993	15000	460	110	900	370	NA	NA	521.19	12.24	508.95
MW-5	05/05/1993	4500	160	19	280	110	NA	NA	521.19	11.90	509.29
MW-5	08/09/1993	2300	180	19	130	80	NA	NA	521.19	13.35	507.84
MW-5	10/14/1993	2200	160	27	90	64	NA	NA	521.19	13.89	507.30
MW-5	01/24/1994	2600	69	11	65	25	NA	NA	521.19	13.32	507.87
MW-5	05/31/1994	3100	130	64	140	120	NA	NA	521.19	12.75	508.44
MW-5	08/31/1994	600	20	2.9	14	7.1	NA	NA	521.19	14.34	506.85
MW-5	11/02/1994	2300	68	18	52	54	NA	NA	521.19	14.22	506.97
MW-5	02/20/1995	12000	130	<30	240	138	NA	NA	521.19	12.78	508.41
MW-5	05/09/1995	2500	57	60	54	37	NA	NA	521.19	13.41	507.78
MW-5	08/21/1995	11000	91	28	140	120	<100	<100	521.19	12.32	508.87

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MW-5	10/20/1995	2300	39	3.8	28	19	NA	NA	521.19	13.28	507.91
MW-5	02/07/1996	1800	35	8.1	37	20	NA	NA	521.19	11.31	509.88
MW-5	04/30/1996	NA	NA	NA	NA	NA	NA	NA	521.19	11.52	509.67
MW-5	08/14/1996	3500	130	22	170	47	71	NA	521.19	12.03	509.16
MW-5	11/22/1996	3500	160	15	190	28	<200	NA	521.19	12.22	508.97
MW-5	02/14/1997	2900	150	54	330	68	<300	NA	521.19	11.20	509.99
MW-5	05/23/1997	10000	170	98	380	68	<200	NA	521.19	12.55	508.64
MW-5	07/25/1997	2700	110	<0.5	33	<0.5	<30	NA	521.19	12.93	508.26
MW-5	10/31/1997	NA	NA	NA	NA	NA	NA	NA	521.19	12.78	508.41
MW-5	02/06/1998	67	<0.5	<0.5	<0.5	<0.5	<30	NA	521.19	10.26	510.93
MW-5	05/19/1998	4200	120	25	360	76	510	NA	521.19	11.12	510.07
MW-5	07/31/1998	270	<0.5	<0.5	<0.5	<0.5	<2.5	NA	521.19	11.79	509.40
MW-5	11/04/1998	2800	120	14	590	140	<25	<10	521.19	12.33	508.86
MW-5	11/11/1999	1220	40.5	22.8	16.4	6.22	<12.5	NA	521.19	12.64	508.55
MW-5	04/03/2000	5060	130	20.8	281	30.6	74.1	NA	521.19	11.64	509.55
MW-5	10/16/2000	2070	35.4	33.6	114	57.6	50.1	NA	521.19	12.82	508.37
MW-5	06/28/2001	1500	15	2.5	74	5.5	NA	<0.50	521.19	13.40	507.79

MW-6	01/02/1992	23	ND	0.3	0.6	3	NA	NA	522.18	16.64	505.54
MW-6	04/02/1991	ND	ND	ND	ND	ND	NA	NA	522.18	15.61	506.57
MW-6	07/21/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	522.18	15.53	506.65
MW-6	10/09/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	522.18	15.69	506.49
MW-6	08/09/1993	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	522.18	14.50	507.68
MW-6	10/14/1993	NA	NA	NA	NA	NA	NA	NA	522.18	NA	NA
MW-6	01/24/1994	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	522.18	15.09	507.09
MW-6	05/31/1994	NA	NA	NA	NA	NA	NA	NA	522.18	14.64	507.54

WELL CONCENTRATIONS
Former Texaco Service Station
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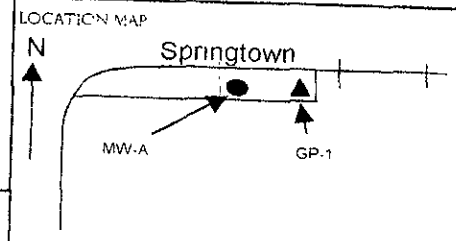
Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
MW-6	08/31/1994	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	522.18	15.32	506.86
MW-6	11/02/1994	NA	NA	NA	NA	NA	NA	NA	522.18	15.32	506.86
MW-6	02/20/1995	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	522.18	14.07	508.11
MW-6	05/09/1995	NA	NA	NA	NA	NA	NA	NA	522.18	14.30	507.88
MW-6	10/20/1995	NA	NA	NA	NA	NA	NA	NA	522.18	14.31	NA
MW-6	07/25/1997	NA	NA	NA	NA	NA	NA	NA	522.18	NA	NA
MW-7	01/02/1992	NA	NA	NA	NA	NA	NA	NA	522.19	11.17	511.02
MW-7	04/02/1992	ND	ND	ND	ND	ND	NA	NA	522.19	10.34	511.85
MW-7	07/21/1992	NA	NA	NA	NA	NA	NA	NA	522.19	9.02	513.17
MW-7	05/31/1994	NA	NA	NA	NA	NA	NA	NA	522.19	9.42	512.77
MW-7	08/31/1994	NA	NA	NA	NA	NA	NA	NA	522.19	6.84	515.35
MW-7	11/02/1994	NA	NA	NA	NA	NA	NA	NA	522.19	6.48	515.71
MW-7	02/20/1995	NA	NA	NA	NA	NA	NA	NA	522.19	7.71	514.48
MW-7	05/09/1995	NA	NA	NA	NA	NA	NA	NA	522.19	7.65	514.54
MW-7	08/21/1995	NA	NA	NA	NA	NA	NA	NA	522.19	7.83	514.36
MW-7	10/20/1995	NA	NA	NA	NA	NA	NA	NA	522.19	8.61	513.58
MW-7	07/25/1997	NA	NA	NA	NA	NA	NA	NA	522.19	NA	NA
MW-8	01/02/1992	12000	32	980	200	760	NA	NA	524.03	18.42	505.61
MW-8	04/02/1992	ND	ND	ND	ND	ND	NA	NA	524.03	17.39	506.64
MW-8	07/21/1992	NA	NA	NA	NA	NA	NA	NA	524.03	14.02	510.01
MW-8	05/31/1994	NA	NA	NA	NA	NA	NA	NA	524.03	19.65	504.38
MW-8	08/31/1994	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	524.03	17.40	506.63
MW-8	11/02/1994	NA	NA	NA	NA	NA	NA	NA	524.03	17.38	506.65
MW-8	02/20/1995	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	524.03	15.99	508.04

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Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
MW-8	05/09/1995	NA	NA	NA	NA	NA	NA	NA	524.03	16.54	507.49
MW-8	08/21/1995	<50	<0.5	<0.5	0.67	0.62	<10	NA	524.03	15.77	508.26
MW-8	10/20/1995	NA	NA	NA	NA	NA	NA	NA	524.03	16.24	507.79
MW-8	02/07/1996	<50	7.0	<0.5	<0.5	<0.5	NA	NA	524.03	14.42	509.61
MW-8	04/30/1996	61	9.6	<0.5	<0.5	<0.5	NA	NA	524.03	14.65	509.38
MW-8	08/14/1996	<50	0.73	<0.5	<0.5	<0.5	<30	NA	524.03	15.08	508.95
MW-8	11/22/1996	120	5.9	2.2	2.4	8.3	<30	NA	524.03	15.35	508.68
MW-8	02/14/1997	<50	<0.5	<0.5	<0.5	<0.5	<30	NA	524.03	14.32	509.71
MW-8	05/23/1997	<50	<0.5	<0.5	<0.5	<0.5	<30	NA	524.03	13.35	510.68
MW-8	07/25/1997	<50	<0.5	<0.5	<0.5	<0.5	<30	NA	524.03	16.05	507.98
MW-8	10/31/1997	<50	<0.5	<0.5	<0.5	<0.5	<30	NA	524.03	15.86	508.17
MW-8	02/06/1998	180	17	<0.5	<0.5	6.0	<30	NA	524.03	13.62	510.41
MW-8	05/19/1998	<50	4.9	<0.5	<0.5	<0.5	<2.5	NA	524.03	14.23	509.80
MW-8	07/31/1998	140	<0.5	<0.5	<0.5	<0.5	<2.5	NA	524.03	14.95	509.08
MW-8	11/04/1998	<50	1.2	100	1.9	7.8	<2.5	NA	524.03	15.42	508.61
MW-8	11/11/1999	<50.0	<0.500	<0.500	<0.500	<0.500	3.70	<0.500	524.03	15.74	508.29
MW-8	04/03/2000	87.7	10.8	<0.500	<0.500	<0.500	<2.50	NA	524.03	14.76	509.27
MW-8	10/16/2000	237	11.3	<0.500	<0.500	0.544	7.93	NA	524.03	15.91	508.12
MW-8	06/28/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	29	524.03	16.49	507.54

PROJECT NO: Cou-000930
 LOGGED BY: Janet Yantis
 DRILLER: Vironex
 DRILLING METHOD: Hyd Push
 SAMPLING METHOD: Continuous
 CASING TYPE:
 SLOT SIZE:
 GRAVEL PACK:

CLIENT: Equiva
 LOCATION: 6/21/01
 DATE DRILLED: 930 Springtown
 HOLE DIAMETER: 2 in
 HOLE DEPTH: 16 ft
 WELL DIAMETER: NA
 WELL DEPTH: NA
 CASING STICKUP: NA



ELEVATION NORTHING EASTING

Well Completion	Static Water Level	Moisture Content	PID Reading (ppm)	Time	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
		Moist			1	↑	SC/CL	Grass Clayey Sand/Sandy Clay, olive gray; roots; no odors
		Dry		7:30	2		GP	Gravel; fine gravel; 5% fines
			3			SM	Silty Sand; olive yellow; ~20% non-plastic fines, ~80% fine to medium sand; minor root holes; occasional MnO stains; dry; no odors	
			4			GP	Gravel; fine gravel; 5% fines	
		Moist		7:40	5		GP	
			6			SM	Silty Sand; olive yellow; ~20% non-plastic fines, ~80% fine to medium sand; minor root holes; occasional MnO stains; dry; no odors	
			7			SM		
		Very Moist		7:50	8		GP	
			9			GP	Silty Gravel with Sand; light yellowish brown; ~30% non-med. Plasticity fines, ~30% fine to medium sand, ~40% fine gravel; npo	
			11			SC	Clayey Sand; Pale Yellow; 30% med./ plastic. Fines; 70% fine to medium sand;	
			12			SC	Clayey Sand with Gravel; olive; ~25% non-med. plastic. fines (increase in plasticity) ~75% fine to coarse sand; occasional gray mottling; occasional caliche coating and nodules; common MnO coating occasional FeO stains;	
		Wet		8:10	13		SC	occasional gray mottling; occasional caliche coating and nodules; common MnO coating occasional FeO stains;
			14			SC/CL	Sandy Clay/Clayey Sand; moderate Odors	
			15			SC/CL		
					16	↓	SP	Poorly Graded Sand with Gravel, gray; <5% fines; fine to coarse sand with occasional gravel; wet; moderate odors
					17			
					18			
					19			
					20			
					21			
					22			

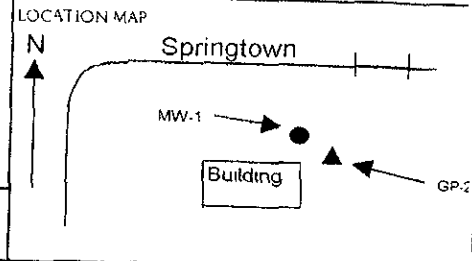
KHIM

**ENVIRONMENTAL
MANAGEMENT
INCORPORATED**

LOGGED BY: Yantis
 DRILLER: Vironex
 DRILLING METHOD: Push
 SAMPLING METHOD: Continuous
 CASING TYPE:
 SLOT SIZE:
 GRAVEL PACK:

CLIENT: Equiva
 LOCATION: 930 Springtown
 DATE DRILLED: 6/21/01
 HOLE DIAMETER: 2 in.
 HOLE DEPTH: 8 ft
 WELL DIAMETER:
 WELL DEPTH:
 CASING STICKUP:

BORING WELL NO: GP 2
 PAGE 1 OF 1



ELEVATION	NORTHING	EASTING
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Well Completion Backfill Casing	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
					1			Poorly Graded Gravel with Sand; Light olive brown; ~40% fine to coarse sand & ~60% gravel
					2			
					3			
					4		CL	Gravelly lean clay with sand; olive brown; ~45% medium pl. fines, ~20% fine to coarse sand, ~35% gravel; gravel is subamngular; abundant small caliche nodules; common rootholes; damp; no odors
					5			
					6		CL	Sandy lean clay; olive grey; 60% med. Plast Fines, 40% fine sand, rare gravel; common tiny calicke vensovice
					7			
					8		ML	Sandy silt; ~60% non-plastic, ~40% fine sand; damp to moist; no odors
					9			
					10			
					11			
					12			
					13			
					14			
					15			
					16			
					17			
					18			
					19			
					20			
					21			
					22			

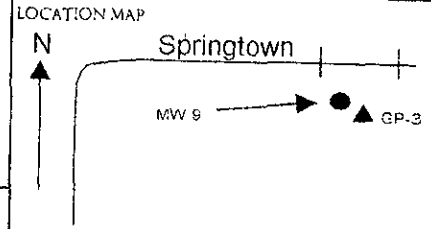
KHM

**ENVIRONMENTAL
MANAGEMENT
INCORPORATED**

LOGGED BY: Janet Yantis
 DRILLER: Vironex
 DRILLING METHOD: Push
 SAMPLING METHOD: Continuous
 CASING TYPE:
 SLOT SIZE:
 GRAVEL PACK:

LOCATION: 930 Springtown
 DATE DRILLED: 6/21/01
 EQUIVA: 6/21/01
 HOLE DIAMETER: 2 in
 HOLE DEPTH: 12 ft.
 WELL DIAMETER: NA
 WELL DEPTH: NA
 CASING STICKUP: NA

BORING/WELL NO: GP-3
 PAGE 1 OF 1

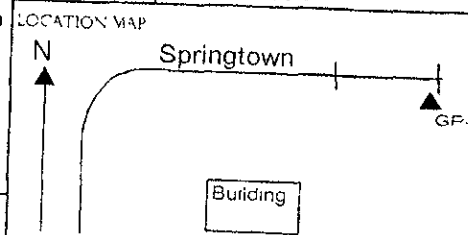


ELEVATION NORTHING EASTING

Well Completion		Static Water Level	Moisture Content	PID Reading (ppm)	Time	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing								
			Dry			1			Silty Sand with gravel; light yellow brown; ~20% fines; ~50% fine to coarse sand; 30% gravel; dry; no odors
			Damp		10:00	2			
				3					
			Damp		10:10	4		CL	Sandy lean Clay; light olive brown; 60% medium plastic fines, 40% fine to coarse sand; occasional root holes, damp no odors; @ 4 feet roots
				5				CL	Sandy clay/Clayey sand ~45-55% low to medium plastic fines, 45-55% fine to coarse sand; occasional cliché veins; occasional FeO stains
				6				CL	
			Damp		10:20	7			
				8				CL	Sandy lean Clay with gravel; ~30% medium plastic fines, 40% fines to coarse sand, 30% gravel to 1/2 inch; damp; no odors
			Wet		10:20	9			
				10				GW	Silty Gravel with sand; dark gray; ~15% low to medium plastic fines, 30% fine to coarse sand, 55% gravel; occasional caliche nodules; very moist; moderate odors
						11			Well graded Gravel with sand; dark gray; ~10% medium plastic fines, 80% fine to coarse sand, 10% gravel; wet; moderate odors
						12			
						13			
						14			Depth to Water ~ 12 feet; moderate product odors
						15			
						16			
						17			
						18			
						19			
						20			
						21			
						22			

LOGGED BY: Janet Yantis
 DRILLER: Vironex
 DRILLING METHOD: Hyd Push
 SAMPLING METHOD: Continuous
 CASING TYPE:
 SLOT SIZE:
 GRAVEL PACK:

LOCATION: 930 Springtown
 DATE DRILLED: 6/21/01
 HOLE DIAMETER: 2 in
 HOLE DEPTH: 16 ft
 WELL DIAMETER: NA
 WELL DEPTH: NA
 CASING STICKUP: NA





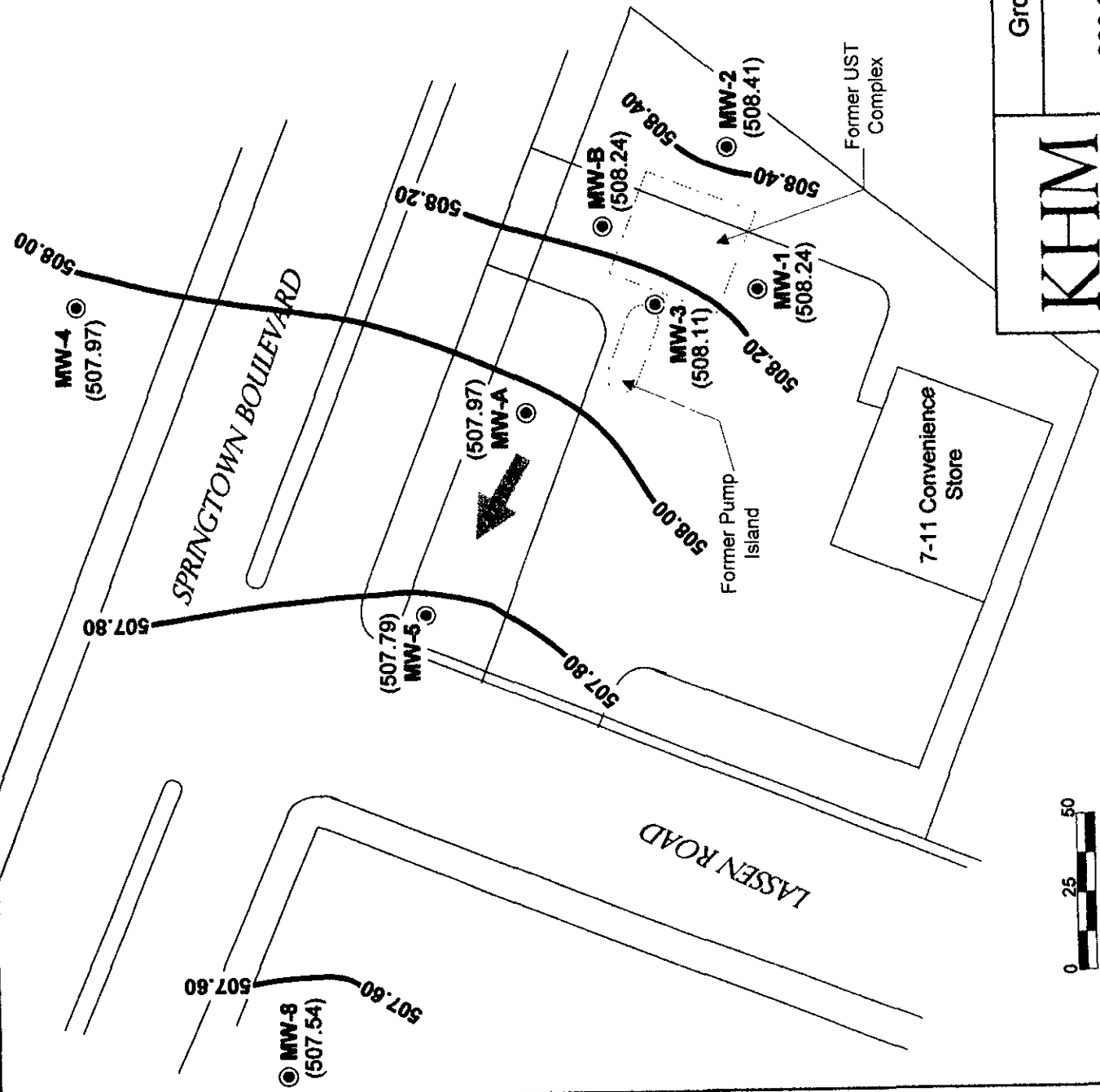
ELEVATION NORTHING EASTING

Well Completion		Static Water Level	Moisture Content	PID Reading (ppm)	Time	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing								
			Damp to dry		8:50	1	SC	Clayey Sand with gravel; light to olive brown; ~20% medium plasticity fines, ~45% fine to coarse sand, 35% fine gravel; occasional roots	
						2			
						3			
						4		Clayey Sand; light olive brown; ~35% medium plasticity fines, ~65% fine to coarse sand; occasional caliche veins; small root holes; occasional Mn stains; damp; no odors	
						5			
						6	GW	Well Graded Gravel with clay and sand	
			Damp-Moist		9:00	7		Clayey Gravel with sand; ~<10% medium plasticity fines, 25% fine to coarse sand, 65% gravel; sub-angular; damp to dry; no odor	
						8			
						9	CL	Sandy lean Clay; light olive brown; 70% medium plasticity fines, 30% fine to medium sand; pervasive caliche coatings; occasional MnO stains, damp to moist; no odors	
						10			
			Moist		9:10	11	SM	Silty Sand; light olive brown; 40% non to low plasticity fines, 60% fine to medium sand; at ~ 10 feet; occasional caliche nodules to 1/2 inch; moist	
						12			
						13	SC	Clayey Sand, ~45% low to medium plasticity fines, 55% fine to medium sand; caliche absent; occasional gray mottling; occasional FeO stains; no odors; very moist	
						14			
						15	GW	well graded Gravel with Sand	
						16	GW	Gravel with Sand; dark gray, 0% fines, sand coarsening downward; wet; strong odors	
					9:15	17			
						18			
						19			
						20			
						21			
						22			



LEGEND

- MW-1**  Groundwater Monitoring Well Location and Designation
- (508.93)** Groundwater Elevation (Feet, MSL); Measured 6/28/01
- 508.8** Groundwater Elevation Contour (Feet, MSL)
-  Approximate Groundwater Flow Direction and Gradient



KHIM
 ENVIRONMENTAL
 MANAGEMENT,
 INC.

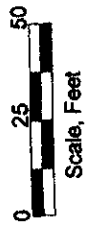
Groundwater Elevation Contour Map

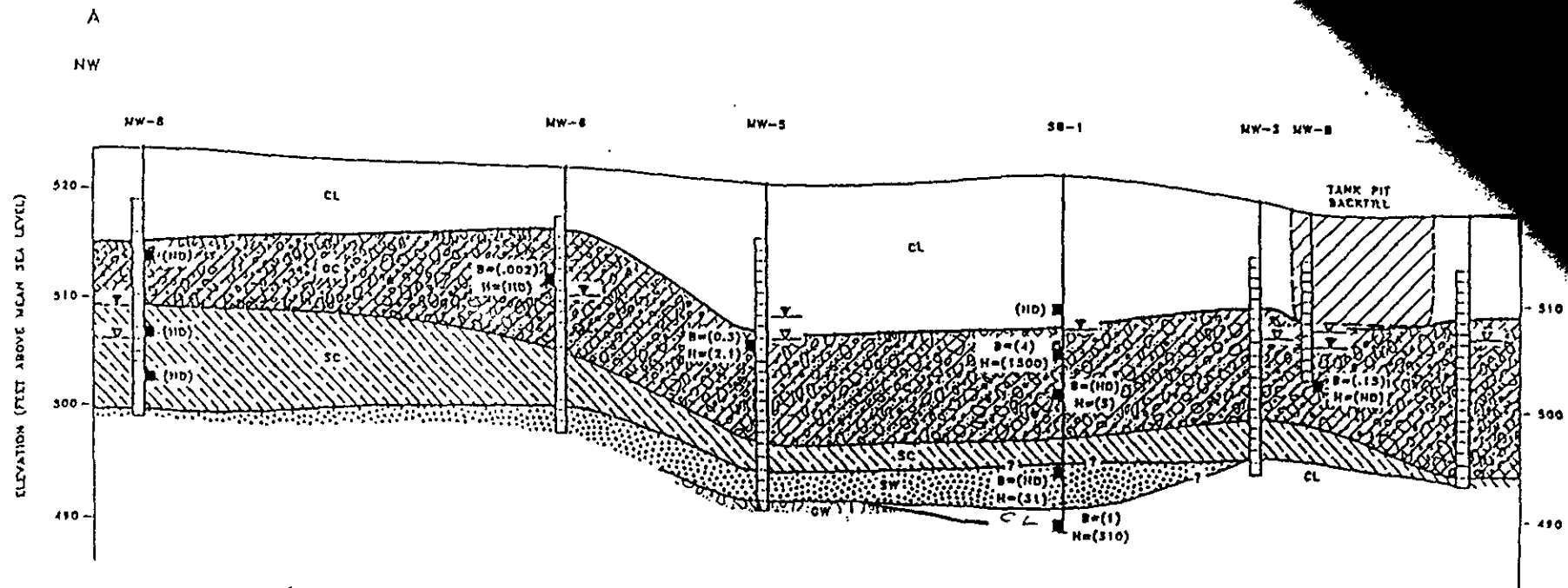
Former Texaco Service Station
 930 Springtown Boulevard at Lassen Road
 Livermore, California

DATE 7/23/01

PROJECT C80-000930G1

FIGURE 1





LEGEND

- CL SILTY SANDY CLAY
- SC CLAYEY SILTY SAND
- SW SAND
- GW CLAYEY SAND AND GRAVEL
- G GRAVEL
- ∇ WATER LEVEL ON 7/12/91
- ∇ ENCOUNTERED WATER DURING DRILLING
- SOIL SAMPLE
- HD HYDROCARBON NOT DETECTED
- B BENZENE CONCENTRATION (ppb)
- H TPH-C CONCENTRATION (ppb)

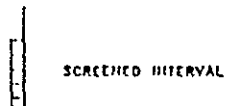


FIGURE 3
GENERALIZED GEOLOGIC
CROSS SECTION A-A'
 TEXACO REFINING & MARKETING INC.
 830 SPRINGTOWN BLVD.
 LIVERMORE, CA
 94550-1383

REVISIONS:
 DATE: 8/29/91
 REVISION: FINAL DRAFT
 BY: GWS

