BLAINE
TECH SERVICES inc

1680 ROGERS AVENUE
SAN JOSE, CA 95112-1105
(408) 573-7771 FAX
(408) 573-0555 PHONE

February 16, 1999

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

4th Quarter 1998 Monitoring at 9-0517

Fourth Quarter 1998 Groundwater Monitoring at
Former Chevron Service Station Number 9-0517
3900 Piedmont Ave.
Oakland, CA

Monitoring Performed on November 23, 1998

Groundwater Sampling Report **981123-L-2**

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

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

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

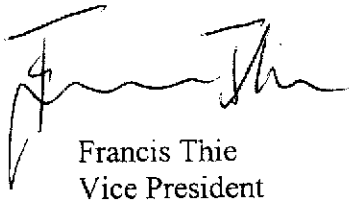
map which is located in the **Professional Engineering Appendix**.

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

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

Please call if you have any questions.

Yours truly,

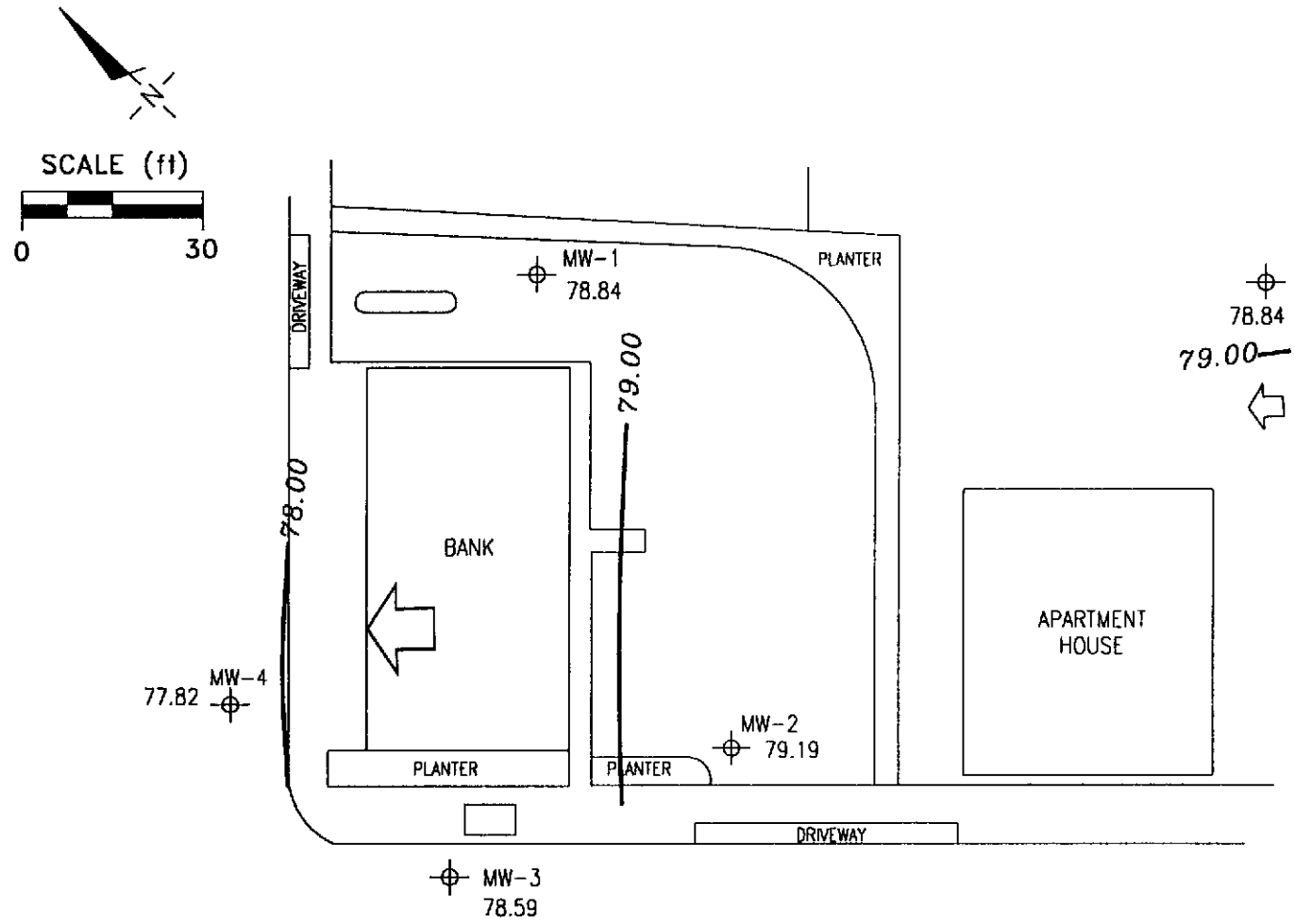


Francis Thie
Vice President

FPT/sb

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

Professional Engineering Appendix



EXPLANATION

- MONITORING WELL
- 78.84 GROUNDWATER ELEVATION (FT, MSL)
- 79.00 GROUNDWATER ELEVATION CONTOUR (FT, MSL)
- APPROXIMATE GROUNDWATER FLOW DIRECTION; APPROXIMATE GRADIENT = 0.02

REGISTERED GEOLOGIST
STEVEN E. KRCIK
No. 4976
9/06
STATE OF CALIFORNIA

Ref. 0517-qm.dwg
Basemap from Gettler-Ryan, Inc.

PREPARED BY
RRM
engineering contracting firm

Former Chevron Station 9-0517
3900 Piedmont Street
Oakland, California

GROUNDWATER ELEVATION CONTOUR MAP, NOVEMBER 23, 1998

FIGURE:
1
PROJECT:
DAC04

Table of
Well Data and
Analytical Results

Cumulative Table of Well Data and Analytical Results

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

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	MTBE
MW-1										
08/03/98	87.89	75.46	12.43	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
11/23/98	87.89	78.84	9.05	--	<50	<0.5	<0.5	<0.5	<0.5	<2.0
MW-2										
08/03/98	86.09	74.75	11.34	--	<50	<0.5	<0.5	<0.5	<0.5	3.4
11/23/98	86.09	79.19	6.90	--	<50	<0.5	<0.5	<0.5	<0.5	<2.0
MW-3										
08/03/98	86.28	74.20	12.08	--	4000	160	<5.0	<5.0	73	180
11/23/98	86.28	78.59	7.69	--	4000	67.7	7.56	17.1	24.5	41.2
MW-4										
08/03/98	87.22	74.30	12.92	--	1900	110	12	<0.5	55	130
11/23/98	87.22	77.82	9.40	--	4080	136	17.8	37.2	30.1	51.8
TRIP BLANK										
08/03/98	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
11/23/98	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.0

Note: Blaine Tech Services, Inc. began routine monitoring of the groundwater wells at this site on November 23, 1998. Earlier field data and analytical results are drawn from the August 3, 1998, Gettler-Ryan, Inc. report.

ABBREVIATIONS:
TPH = Total Petroleum Hydrocarbons
ND = Not detected at or above the minimum quantitation limit. See laboratory reports for minimum quantitation limits.
MTBE = Methyl-tert-butyl ether

Analytical Appendix

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (925) 988-9600, FAX (925) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100
1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

December 9, 1998

Christine Lillie
Blaine Tech/Chevron
1680 Rogers Ave.
San Jose, CA n/a

RE: Chevron/P811391

Dear Christine Lillie

Enclosed are the results of analyses for sample(s) received by the laboratory on November 25, 1998. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Matt Sakai
Project Manager

CA ELAP Certificate Number 2245

Sequoia Analytical

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Blaine Tech/Chevron	Project:	Chevron	Sampled:	11/23/98
1680 Rogers Ave.	Project Number:	9-0517/981123-L2/Oakland	Received:	11/25/98
San Jose, CA n/a	Project Manager:	Christine Lillie	Reported:	12/9/98

ANALYTICAL REPORT FOR P811391

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
MW-1	P811391-01	Water	11/23/98
MW-2	P811391-02	Water	11/23/98
MW-3	P811391-03	Water	11/23/98
MW-4	P811391-04	Water	11/23/98
TB	P811391-05	Water	11/23/98

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Blaine Tech/Chevron	Project:	Chevron	Sampled: 11/23/98
1680 Rogers Ave.	Project Number:	9-0517/981123-L2/Oakland	Received: 11/25/98
San Jose, CA n/a	Project Manager:	Christine Lillie	Reported: 12/9/98

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

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
MW-1			**P811391-01**				**Water**	
Gasoline	8120099	12/4/98	12/4/98		50.0	ND	ug/l	
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Methyl tert-butyl ether	"	"	"		2.00	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	-		*97.7*	*%*	
Surrogate: 4-Bromofluorobenzene	"	"	"	-		*90.3*	"	
MW-2			**P811391-02**				**Water**	
Gasoline	8120099	12/4/98	12/4/98		50.0	ND	ug/l	
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Methyl tert-butyl ether	"	"	"		2.00	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	-		*96.7*	*%*	
Surrogate: 4-Bromofluorobenzene	"	"	"	-		*90.0*	"	
MW-3			**P811391-03**				**Water**	
Gasoline	8120099	12/4/98	12/4/98		250	**4000**	ug/l	
Benzene	"	"	"		2.50	**67.7**	"	
Toluene	"	"	"		2.50	**7.56**	"	
Ethylbenzene	"	"	"		2.50	**17.1**	"	
Xylenes (total)	"	"	"		2.50	**24.5**	"	
Methyl tert-butyl ether	"	"	"		10.0	**41.2**	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	-		*95.7*	*%*	
Surrogate: 4-Bromofluorobenzene	"	"	"	-		*91.0*	"	
MW-4			**P811391-04**				**Water**	
Gasoline	8120099	12/4/98	12/4/98		100	**4080**	ug/l	
Benzene	"	"	"		1.00	**136**	"	
Toluene	"	"	"		1.00	**17.8**	"	
Ethylbenzene	"	"	"		1.00	**37.2**	"	
Xylenes (total)	"	"	"		1.00	**30.1**	"	
Methyl tert-butyl ether	"	"	"		4.00	**51.8**	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	-		*90.3*	*%*	
Surrogate: 4-Bromofluorobenzene	"	"	"	-		*94.0*	"	
TB			**P811391-05**				**Water**	
Gasoline	8120099	12/4/98	12/4/98		50.0	ND	ug/l	

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Blaine Tech/Chevron	Project:	Chevron	Sampled:	11/23/98
1680 Rogers Ave.	Project Number:	9-0517/981123-L2/Oakland	Received:	11/25/98
San Jose, CA n/a	Project Manager:	Christine Lillie	Reported:	12/9/98

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

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
TB (continued)			**P811391-05**				**Water**	
Benzene	8120099	12/4/98	12/4/98		0.500	ND	ug/l	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Methyl tert-butyl ether	"	"	"		2.00	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	-		*96.7*	*%*	
Surrogate: 4-Bromofluorobenzene	"	"	"	-		*91.0*	"	

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Blaine Tech/Chevron	Project:	Chevron	Sampled: 11/23/98
1680 Rogers Ave.	Project Number:	9-0517/981123-L2/Oakland	Received: 11/25/98
San Jose, CA n/a	Project Manager:	Christine Lillie	Reported: 12/9/98

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

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 8120099	**Date Prepared: 12/4/98**					**Extraction Method: EPA 5030 waters**				
Blank	**8120099-BLK1**									
Gasoline	12/4/98			**ND**	ug/l	**50.0**				
Benzene	"			**ND**	"	**0.500**				
Toluene	"			**ND**	"	**0.500**				
Ethylbenzene	"			**ND**	"	**0.500**				
Xylenes (total)	"			**ND**	"	**0.500**				
Methyl tert-butyl ether	"			**ND**	"	**2.00**				
Surrogate: a,a,a-Trifluorotoluene	"	*300*		*280*	"		*93.3*			
Surrogate: 4-Bromofluorobenzene	"	*300*		*274*	"		*91.3*			
LCS	**8120099-BS1**									
Benzene	12/4/98	100		97.7	ug/l		97.7			
Toluene	"	100		92.0	"		92.0			
Ethylbenzene	"	100		90.2	"		90.2			
Xylenes (total)	"	300		279	"		93.0			
Surrogate: a,a,a-Trifluorotoluene	"	*300*		*287*	"		*95.7*			
Matrix Spike	**8120099-MS1**		**P811391-01**							
Benzene	12/4/98	100	ND	98.1	ug/l		**98.1**			
Toluene	"	100	ND	93.1	"		**93.1**			
Ethylbenzene	"	100	ND	91.4	"		**91.4**			
Xylenes (total)	"	300	ND	279	"		**93.0**			
Surrogate: a,a,a-Trifluorotoluene	"	*300*		*289*	"		*96.3*			
Matrix Spike Dup	**8120099-MSD1**		**P811391-01**							
Benzene	12/4/98	100	ND	94.2	ug/l		**94.2**	**4.06**		
Toluene	"	100	ND	88.7	"		**88.7**	**4.84**		
Ethylbenzene	"	100	ND	87.8	"		**87.8**	**4.02**		
Xylenes (total)	"	300	ND	268	"		**89.3**	**4.06**		
Surrogate: a,a,a-Trifluorotoluene	"	*300*		*278*	"		*92.7*			

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Blaine Tech/Chevron	Project:	Chevron	Sampled: 11/23/98
1680 Rogers Ave.	Project Number:	9-0517/981123-L2/Oakland	Received: 11/25/98
San Jose, CA n/a	Project Manager:	Christine Lillie	Reported: 12/9/98

Notes and Definitions

#	Note

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
Recov.	Recovery
RPD	Relative Percent Difference

P811391

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

Chain-of-Custody-Record

Chevron Products Co.
P.O. BOX 6004
San Ramon, CA 94583
FAX (925)842-8370

Chevron Facility Number 9-0517
Facility Address 3900 Piedmont Ave., Oakland
Consultant Project Number 981123-L2
Consultant Name BLAINE TECH SERVICE, INC.
Address 1680 ROGERS AVE., SAN JOSE
Project Contact (Name) CHRISTINE LILLIE
(Phone) 408-573-0555 (Fax Number) 408-573-7771

Chevron Contact (Name) PHIL BRIGGS
(Phone) (925) 842-9136
Laboratory Name SEQUOIA
Laboratory Service Order 9144488
Laboratory Service Code ZZ02800
Samples Collected by (Name) LAD GILCHRIST
Signature [signature]

State Method: ☐ CA ☐ OR ☐ WA ☐ NW Series ☐ CO ☐ UT

Sample Number	Number of Containers	Matrix S = Soil A = Air W = Water C = Charcoal	Sample Preservation	Date/Time	BTEX/MTBE+TPH GAS (8020 + 8015)	BTEX + TPH GAS (8020 + 8015)	TPH Diesel (8015)	Oxygenates (8260)	Purgeable Halocarbons (8010)	Purgeable Organics (8260)	Extractable Organics (8270)	Oil and Grease (5520)	Metals Cd,Cr,Pb,Zn,Ni (ICAP or AA)	BTEX (8020)	BTEX/MTBE/Naph. (8020)	TPH - HCID	TPH-D Extended						Remarks / Lab Sample No.
MW-1	3	W	HCL	11/23 1150	X		P811391-01																DO NOT BILL FOR TB/LB
MW-2	3	↓	↓	1200	X		-02																
MW-3	3			1248	X		-03																
MW-4	3			1230	X		-04																
TB	2	↓	↓	↓	X		-05																NO 24 1 59

COOLER CUSTODY SEALS INTACT ☐ NOT INTACT ☐
COOLER TEMPERATURE 6 °C

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time	Iced Y/N	Turn Around Time (Circle Choice)
[signature]	BTS	11-24 11:00	Charles Armstrong	Sequoia	11-24 11:00		24 Hrs.
Charles Armstrong	Sequoia	11-24					48 Hrs. / 5 Days / 10 Days
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature)		Date/Time	Iced (Y)/N	(As Contracted)

COC-3.DWG/07-98/HCH

Field
Data
Sheets

WELL GAUGING DATA

Project # 981123-L2 Date 11-23-98 Client CHEV 9-0517

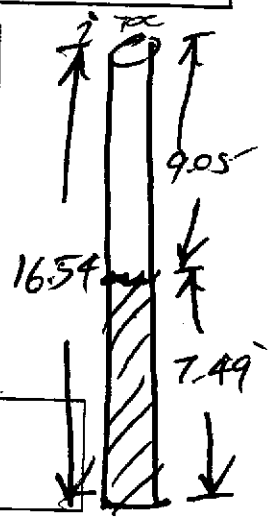
Site 3900 PIEDMONT AVE, OAKLAND CA

Well ID	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	
MW-1	2					9.05	16.54	TOC	
MW-2	2					6.90	16.55	↓	
MW-3	2					7.69	17.68	↓	
MW-4	2					9.40	16.25	↓	

CHEVRON WELL MONITORING DATA SHEET

Project #: 981123-L2	Station #: 9-0517
Sampler: LAD	Date: 11-23-96
Well I.D.: MW-1	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 16.54	Depth to Water: 9.05
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
(2")	(0.16)	5"	1.02
3"	0.37	6"	1.47
4"	0.65	Other	radius² * 0.163



Purge Method: Bailer / Disposable Bailer ✓ / Middleburg / Electric Submersible / Extraction Pump / Other: ___

Sampling Method: Bailer / Disposable Bailer ✓ / Extraction Port / Other: ___

1.2	x (3-5)	= ___ Gals.
1 Case Volume (Gals.)	Specified Volumes	Calculated Volume

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
1134	67.6	7.1	500.	2.	
1138	65.8	7.2	620.	3.	
1142	66.0	7.2	660.	4.	
				5	

Did well dewater? Yes (No)		Gallons actually evacuated: 4	
Sampling Time: 1150		Sampling Date: 11-23-96	
Sample I.D.: MW-1		Laboratory: (Sequoia) GTEL N. Creek Assoc. Labs	
Analyzed for: (TPH-G) (BTEX) (MTBE) TPH-D		Other:	
Duplicate I.D.:	Analyzed for: TPH-G BTEX MTBE TPH-D	Other:	
D.O. (if req'd):	Pre-purge: ___ mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge: ___ mV	Post-purge:	mV

CHEVRON WELL MONITORING DATA SHEET

Project #: 981123-L2	Station #: 9-0517
Sampler: Lad	Date: 11/23/98
Well I.D.: MW-2	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 16.55	Depth to Water: 6.90
Depth to Free Product: TOC	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.16	5"	1.02
3"	0.37	6"	1.47
4"	0.65	Other	radius² * 0.163

Purge Method: Bailer / Disposable Bailer ✓ / Middleburg / Electric Submersible / Extraction Pump / Other: ____

Sampling Method: Bailer / Disposable Bailer ✓ / Extraction Port / Other: ____

1.54 (1 Case Volume (Gals.)) x (3-5) (Specified Volumes) = ____ Gals. (Calculated Volume)

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
1155	69.6	7.6	8.80	2	
1157	68.6	7.6	6.40	3	
1159	68.2	7.5	580.	5	

Did well dewater? Yes (No) Gallons actually evacuated: 5.

Sampling Time: 1200 Sampling Date: 11-23-98

Sample I.D.: MW-2 Laboratory: (Sequoia) GTEL N. Creek Assoc. Labs

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

Duplicate I.D.: Analyzed for: TPH-G BTEX MTBE TPH-D Other:

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

CHEVRON WELL MONITORING DATA SHEET

Project #: 981123-C2	Station #: 9-0517
Sampler: LAD	Date: 11/23/98
Well I.D.: MW-3	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 17.68	Depth to Water: 7.69
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.16	5"	1.02
3"	0.37	6"	1.47
4"	0.65	Other	radius² * 0.163

Purge Method:
- Bailer
- Disposable Bailer X
- Middleburg
- Electric Submersible
- Extraction Pump
- Other: ____

Sampling Method:
- Bailer
- (Disposable Bailer)
- Extraction Port
- Other: ____

~~1.59~~ 2.0 (1 Case Volume (Gals.)) X (3-5) (Specified Volumes) = ____ Gals. (Calculated Volume)

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
12:34	67.2	8.0	720	2.	
12:37	67.6	8.0	720	4	
12:40	67.8	7.8	740	6.	

Did well dewater? Yes No		Gallons actually evacuated:	6.
Sampling Time: 12:48		Sampling Date:	11-23-98
Sample I.D.: MW-3		Laboratory: (Sequoia) GTEL N. Creek Assoc. Labs	
Analyzed for: (TPH-G) (BTEX) (MTBE) TPH-D Other:			
Duplicate I.D.:	Analyzed for: TPH-G BTEX MTBE TPH-D Other:		
D.O. (if req'd): Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd): Pre-purge:	mV	Post-purge:	mV

CHEVRON WELL MONITORING DATA SHEET

Project #: 981123-L2	Station #: 9-0517
Sampler: LG	Date: 11/23/98
Well I.D.: MW-4	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 16.25	Depth to Water: 9.4
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.16	5"	1.02
3"	0.37	6"	1.47
4"	0.65	Other	radius² * 0.163

Purge Method: Bailer / Disposable Bailer / Middleburg / Electric Submersible / Extraction Pump / Other: ___

Sampling Method: Bailer / (Disposable Bailer) / Extraction Port / Other: ___

1.09 (1 Case Volume (Gals.)) x (3-5) (Specified Volumes) = ___ Gals. (Calculated Volume)

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
12:15	66.6	7.80	610	2	odor
12:20	71.2	7.80	620	3	
12:25	67.5	7.60	660	4	
12:28	66.8	7.4	660	5	

Did well dewater? Yes (No) Gallons actually evacuated: 5

Sampling Time: 12:30 Sampling Date: 11/23/98

Sample I.D.: MW-4 Laboratory: (Sequoia) GTEL N. Creek Assoc. Labs

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

Duplicate I.D.: Analyzed for: TPH-G BTEX MTBE TPH-D Other:

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