



**Chevron**

August 11, 1998

*Self Wgt 10760 L. m. w. 1000 ft.*  
*Altitude 1000 ft.*  
**Chevron Products Company**  
6001 Bollinger Canyon Road  
Building L, Room 1110  
PO Box 6004  
San Ramon, CA 94583-0904

Mr. Barney Chan  
Alameda County Health Care Services  
Department of Environmental Health  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502-6577

**Philip R. Briggs**  
Project Manager  
Site Assessment & Remediation  
Phone 925 842-9136  
Fax 925 842-8370

**Re: Chevron Service Station #9-1851  
451 Hegenberger Road  
Oakland, California**

Dear Mr. Chan:

Enclosed is the Second Quarter Groundwater Monitoring Report for 1998 that was prepared by our consultant Blaine Tech Services Inc., for the above noted site. The groundwater samples collected were analyzed for the TPH-g, BTEX and MtBE constituents. Your letter of April 10, 1998 approved the discontinuance for the sampling of VOC's in monitoring well M-2.

The BTEX constituent was below the method detection limits in all four monitoring wells. Results from testing for TPH-g in well MW-4 indicated a chromatogram pattern of an unidentified hydrocarbon. All samples were confirmed the presence of MtBE by using EPA Method 8260, with the highest concentration detected in well MW-4.

The depth to ground water varied from 3.25 feet to 4.98 feet below grade with a direction of flow southwesterly.

The concentrations of benzene have declined to below method detection levels in all wells and the MtBE constituent appears to have stabilized in wells MW-2 and MW-3. Therefore, Chevron will continue to monitor the site quarterly to confirm the stability and possible reduction of the petroleum hydrocarbon plume.

Note for the record, that the existing service station facilities are not owned, operated or maintained by Chevron.

August 11, 1998  
Mr. Barney Chan  
Chevron Service Station #9-1851  
Page 2

If you have any questions call me at (925) 842-9136.

Sincerely,  
**CHEVRON PRODUCTS COMPANY**



Philip R. Briggs  
Site Assessment and Remediation Project Manager

Enclosure

Cc. Bill Scudder, Chevron

Mr. Ben Shimek  
451 Hegenberger Road  
Oakland, CA 94621

**BLAINE**  
TECH SERVICES INC

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



August 3, 1998

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

### **2nd Quarter 1998 Monitoring at 9-1851**

Second Quarter 1998 Groundwater Monitoring at  
Chevron Service Station Number 9-1851  
451 Hegenberger Rd.  
Oakland, CA

Monitoring Performed on June 23, 1998

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### **Groundwater Sampling Report 980623-M-1**

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

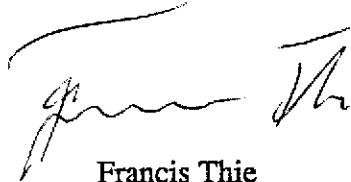
map which is located in the **Professional Engineering Appendix**.

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,

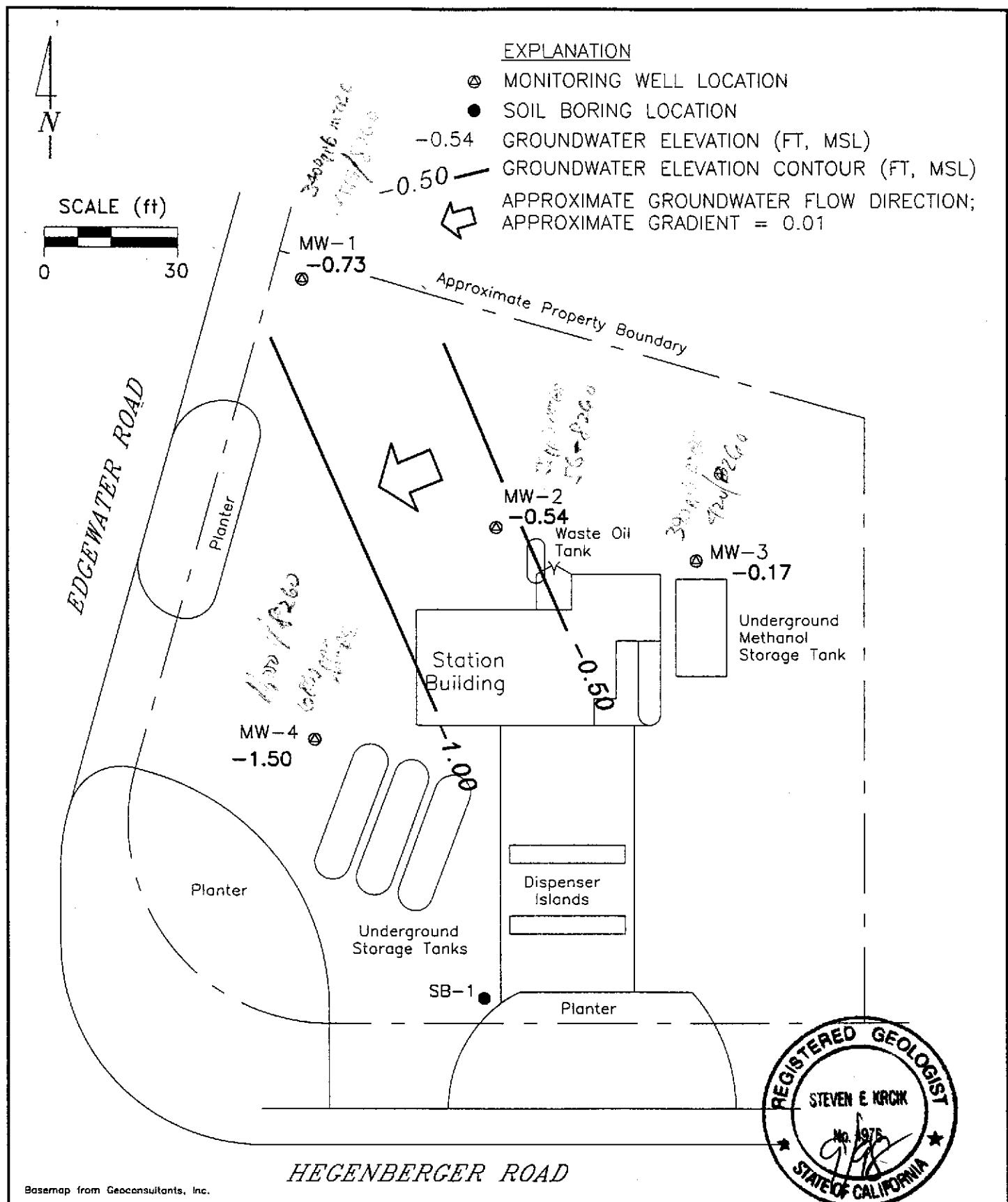
A handwritten signature consisting of two stylized initials, "FT", written in black ink.

Francis Thie  
Vice President

FPT/dg

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

# **Professional Engineering Appendix**



Basemap from Geoconsultants, Inc.

PREPARED BY

**RRM**  
engineering contracting firm

Chevron Station 9-1851  
451 Hegenberger Road  
Oakland, California

GROUNDWATER ELEVATION CONTOUR MAP,  
JUNE 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-Benzenes	Xylene	TOG	TPH-Diesel (EPA 8240)	Benzene by (EPA 8240)	Xylene by (EPA 8240)	C-1, 2-DCE	Carbon Disulfide	Vinyl Chloride	MTBE
<b>MW-1</b>																	
10/17/95	2.61	-1.51	4.12	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	
03/29/96	2.61	-0.72	3.33	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	9.5	
06/26/96	2.61	-1.23	3.84	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	46	
09/25/96	2.61	-1.41	4.02	--	<250	<2.5	<2.5	<2.5	<2.5	--	--	--	--	--	--	940	
12/17/96	2.61	-0.96	3.57	--	<50	0.86	<0.5	<0.5	<0.5	--	--	--	--	--	--	260	
03/20/97	2.61	-1.54	4.15	--	<50	<2.0	<2.0	<2.0	<2.0	--	--	--	--	--	--	76	
06/20/97	2.61	-1.72	4.33	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	64	
09/09/97	2.61	-1.74	4.35	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	110	
12/12/97	2.61	-0.39	3.00	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	27	
02/19/98	2.61	0.78	1.83	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	14	
06/23/98	2.61	-0.73	3.34	***	210	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	3400	
<b>MW-2</b>																	
10/17/95	3.51	-1.82	5.33	*	170	3.5	<0.5	1.0	6.1	<5000	1600**	--	--	11	--	--	
03/29/96	3.51	-0.44	3.95	--	89	4.7	<0.5	0.64	0.74	--	3000**	11	2.5	17	--	5.4	21
06/26/96	3.51	-1.09	4.60	--	80	8.7	<0.5	1.2	1.3	--	2000**	11	<2.0	15	--	12	31
09/25/96	3.51	--	--	Inaccessible	--	--	--	--	--	--	--	--	--	--	--	--	
12/17/96	3.51	-0.41	3.92	--	110	<0.5	<0.5	0.75	2.1	--	2400**	10	<2.0	2.3	--	5.5	27
03/20/97	3.51	-1.32	4.83	--	140	8.2	<2.0	<2.0	<2.0	--	3400**	--	--	<2.0	--	3.2	58
06/20/97	3.51	-1.53	5.04	--	62	7.7	<0.5	<0.5	<0.5	--	1600**	7.2	<2.0	4.6	2.2	5.2	38
09/09/97	3.51	-1.47	4.98	--	190	9.4	<0.5	<0.5	0.86	--	82**	11	<2.0	<2.0	<2.0	<2.0	48
12/12/97	3.51	-0.40	3.91	--	180	1.8	<0.5	<0.5	3.2	--	8500**	<2.0	<2.0	<2.0	<2.0	<2.0	34
02/19/98	3.51	0.55	2.96	--	<100	1.8	<1.0	<1.0	<1.0	--	3800**	<3.3	<3.3	<3.3	<3.3	<3.3	230
06/23/98	3.51	-0.54	4.05	***	60	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	55	

\* Results of EPA 8010 test indicates that the detection of 1,1-Dichloroethane is 1.7 ppb.

\*\* Chromatogram pattern indicates an unidentified hydrocarbon.

\*\*\* See Table of Additional Analyses

## 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	TOG	TPH-Diesel (EPA 8240)	Benzene (EPA 8240)	Xylene (EPA 8240)	1,2-DCE	Carbon Disulfide	Vinyl Chloride	MTBE
<b>MW-3</b>																	
10/17/95	3.08	-1.34	4.42	***	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	
03/29/96	3.08	0.08	3.00	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	26	
06/26/96	3.08	-0.52	3.60	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	47	
09/25/96	3.08	-1.06	4.14	--	<125	<1.2	<1.2	<1.2	<1.2	--	--	--	--	--	--	570	
12/17/96	3.08	-0.12	3.20	--	<500	<5.0	<5.0	<5.0	<5.0	--	--	--	--	--	--	680	
03/20/97	3.08	-0.22	3.30	--	<50	<5.7	<5.7	<5.7	<5.7	--	--	--	--	--	--	430	
06/20/97	3.08	-0.78	3.86	--	<500	<5.0	<5.0	<5.0	<5.0	--	--	--	--	--	--	1400	
09/09/97	3.08	-1.11	4.19	--	76**	22	<0.5	<0.5	<0.5	--	--	--	--	--	--	920	
12/12/97	3.08	0.12	2.96	--		52	15	<0.5	<0.5	<0.5	--	--	--	--	--	--	710
02/19/98	3.08	0.86	2.22	--	<50	6.6	<0.5	<0.5	<0.5	--	--	--	--	--	--	380	
06/23/98	3.08	-0.17	3.25	*	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	390	
<b>MW-4</b>																	
10/17/95	3.48	-1.60	5.08	--	<125	<1.2	<1.2	<1.2	<1.2	--	--	--	--	--	--	--	
03/29/96	3.48	-1.13	4.61	--	<1000	<10	<10	<10	<10	--	--	--	--	--	--	6700	
06/26/96	3.48	-0.82	4.30	--	<2000	<20	<20	<20	<20	--	--	--	--	--	--	7200	
09/25/96	3.48	-1.85	5.33	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	<2.5	
12/17/96	3.48	0.67	2.81	--	<2000	120	<20	<20	<20	--	--	--	--	--	--	11,000	
03/20/97	3.48	-1.02	4.50	--	250**	<2.0	<2.0	<2.0	<2.0	--	--	--	--	--	--	10,000	
03/20/97	3.48	-1.02	4.50	Conf. run	--	--	--	--	--	--	--	--	--	--	--	8600	
06/20/97	3.48	-2.20	5.68	--	<2500	<25	<25	<25	<25	--	--	--	--	--	--	9300	
09/09/97	3.48	-2.02	5.50	--	460**	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	6600	
12/12/97	3.48	-1.55	5.03	--	430**	120	<2.5	<2.5	<2.5	--	--	--	--	--	--	7800	
02/19/98	3.48	0.13	3.35	--	510**	130	<0.5	<0.5	<0.5	--	--	--	--	--	--	6600	
06/23/98	3.48	-1.50	4.98	*	550**	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	6800	

\* See Table of Additional Analyses

\*\* Chromatogram pattern indicates an unidentified hydrocarbon.

\*\*\* Results of EPA 8015 test indicates that levels of Methanol and Methyl ethyl ketone are respectively <1000 and <200 ppb.

## 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	TOG	TPH-Diesel (EPA 8240)	Benzene (EPA 8240)	Xylene (EPA 8240)	1, 2-DCE	Carbon Disulfide	Vinyl Chloride	MTBE
<b>TRIP BLANK</b>																	
10/17/95	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	
03/29/96	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	<2.5	
06/26/96	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	<2.5	
09/25/96	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	<2.5	
12/17/96	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	<2.5	
03/20/97	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	<2.5	
06/20/97	--	--	--	--	<50	<2.0	<2.0	<2.0	<2.0	--	--	--	--	--	--	--	
09/09/97	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	<2.5	
12/12/97	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	<2.5	
02/19/98	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	<2.5	
06/23/98	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	<2.5	

# Cumulative Table of Well Data and Analytical Results

*MW-1 through MW-6*

## **ADDITIONAL ANALYSES**

Vertical Measurements are in feet.

Analytical values are in parts per billion (ppb)

DATE	Notes	Ethanol	t-Butanol	MTBE	DIPE	ETBE	TAME
<b>MW-1</b>							
06/23/98	--	<50000	<10000	4500	<200	<200	<200
<b>MW-2</b>							
06/23/98	--	<500	<100	56	<2.0	<2.0	<2.0
<b>MW-3</b>							
06/23/98	--	<5000	<1000	420	<20	<20	26
<b>MW-4</b>							
06/23/98	--	<50000	<10000	11000	<200	<200	860

Note: Blaine Tech Services, Inc. began routine monitoring of the groundwater wells at this site on March 29, 1996.  
 Earlier field data and analytical results are drawn from the December 29, 1995 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.

TOG = Total Oil Grease

MTBE = Methyl t-butyl Ether

DIPE = Di-Isopropyl Ether

ETBE = Ethyl t-Butyl Ether

TAME = t-Amyl Methyl Ether

C-1,2 DCE = Cis-1,2-Dichloroethylene

Conf. run = Confirmation run

# **Analytical Appendix**



# Sequoia Analytical

680 Chesapeake Drive  
404 N. Wiger Lane  
819 Striker Avenue, Suite 8  
1455 McDowell Blvd. North, Ste. D

Redwood City, CA 94063  
Walnut Creek, CA 94598  
Sacramento, CA 95834  
Petaluma, CA 94954

(650) 364-9600  
(925) 988-9600  
(916) 921-9600  
(707) 792-1865

FAX (650) 364-9233  
FAX (925) 988-9673  
FAX (916) 921-0100  
FAX (707) 792-0342

Blaine Tech Services  
1680 Rogers Avenue  
San Jose, CA 95112  
  
Attention: Fran Thie

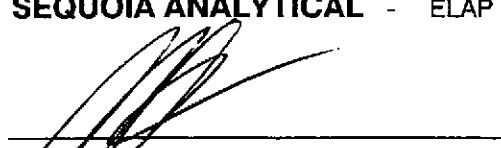
Client Proj. ID: Chevron 9-1851/980623-M1  
Sample Descript: MW-1  
Matrix: LIQUID  
Analysis Method: EPA 8260  
Lab Number: 9806G04-01

Sampled: 06/23/98  
Received: 06/24/98  
  
Analyzed: 07/07/98  
Reported: 07/14/98

Analyte	Detection Limit ug/L	Sample Results ug/L
Ethanol	50000	N.D.
t-Butanol	10000	N.D.
<b>Methyl t-Butyl Ether (MTBE)</b>	<b>200</b>	<b>4500</b>
Di-Isopropyl Ether (DIPE)	200	N.D.
Ethyl t-Butyl Ether (ETBE)	200	N.D.
t-Amyl Methyl Ether (TAME)	200	N.D.
Surrogates	Control Limits %	% Recovery
1,2-Dichloroethane-d4	76	114

Analytes reported as N.D. were not present above the stated limit of detection.

**SEQUOIA ANALYTICAL - ELAP #1624**

  
Mike Gregory  
Project Manager



# Sequoia Analytical

680 Chesapeake Drive  
404 N. Wiget Lane  
819 Striker Avenue, Suite 8  
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Redwood City, CA 94063  
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FAX (650) 364-9233  
FAX (925) 988-9673  
FAX (916) 921-0100  
FAX (707) 792-0342

Blaine Tech Services  
1680 Rogers Avenue  
San Jose, CA 95112  
  
Attention: Fran Thie

Client Proj. ID: Chevron 9-1851/980623-M1  
Sample Descript: MW-1  
Matrix: LIQUID  
Analysis Method: 8015Mod/8020  
Lab Number: 9806G04-01

Sampled: 06/23/98  
Received: 06/24/98  
  
Analyzed: 06/29/98  
Reported: 07/14/98

QC Batch Number: GC062998802007A  
Instrument ID: GC-7

Analyte	Detection Limit ug/L	Sample Results ug/L	
TPPH as Gas	.....	50	210
Methyl t-Butyl Ether	.....	25	3400
Benzene	.....	0.50	N.D.
Toluene	.....	0.50	N.D.
Ethyl Benzene	.....	0.50	N.D.
Xylenes (Total)	.....	0.50	N.D.
Chromatogram Pattern:	.....		
Unidentified HC	.....		C6-C12
Surrogates		Control Limits %	% Recovery
Trifluorotoluene	70	130	100

Analytes reported as N.D. were not present above the stated limit of detection.

**SEQUOIA ANALYTICAL - ELAP #1210**

  
Mike Gregory  
Project Manager



**Sequoia  
Analytical**

680 Chesapeake Drive  
404 N. Wiget Lane  
819 Striker Avenue, Suite 8  
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(707) 792-1865      FAX (707) 792-0342

Blaine Tech Services  
1680 Rogers Avenue  
San Jose, CA 95112  
  
Attention: Fran Thie

Client Proj. ID: Chevron 9-1851/980623-M1  
Sample Descript: MW-2  
Matrix: LIQUID  
Analysis Method: EPA 8260  
Lab Number: 9806G04-02

Sampled: 06/23/98  
Received: 06/24/98  
  
Analyzed: 07/07/98  
Reported: 07/14/98

Analyte	Detection Limit ug/L	Sample Results ug/L
Ethanol	500	N.D.
t-Butanol	100	N.D.
<b>Methyl t-Butyl Ether (MTBE)</b>	<b>2.0</b>	<b>56</b>
Di-Isopropyl Ether (DIPE)	2.0	N.D.
Ethyl t-Butyl Ether (ETBE)	2.0	N.D.
t-Amyl Methyl Ether (TAME)	2.0	N.D.
Surrogates	Control Limits %	% Recovery
1,2-Dichloroethane-d4	76	114

Analytes reported as N.D. were not present above the stated limit of detection.

**SEQUOIA ANALYTICAL - ELAP #1624**

Mike Gregory  
Project Manager

Page: 3



**Sequoia  
Analytical**

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Blaine Tech Services  
1680 Rogers Avenue  
San Jose, CA 95112  
  
Attention: Fran Thie

Client Proj. ID: Chevron 9-1851/980623-M1  
Sample Descript: MW-2  
Matrix: LIQUID  
Analysis Method: 8015Mod/8020  
Lab Number: 9806G04-02

Sampled: 06/23/98  
Received: 06/24/98  
  
Analyzed: 06/30/98  
Reported: 07/14/98

QC Batch Number: GC063098802007A  
Instrument ID: GC-7

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	.....	50
Methyl t-Butyl Ether	.....	2.5
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:	.....	.....
Unidentified HC	.....	C6-C12
Surrogates		
Trifluorotoluene	70	130
	Control Limits %	% Recovery
		93

Analytes reported as N.D. were not present above the stated limit of detection.

**SEQUOIA ANALYTICAL - ELAP #1210**

  
Mike Gregory  
Project Manager



# Sequoia Analytical

680 Chesapeake Drive  
404 N. Wiget Lane  
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1455 McDowell Blvd. North, Ste. D

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Petaluma, CA 94954

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(707) 792-1865

FAX (650) 364-9233  
FAX (925) 988-9673  
FAX (916) 921-0100  
FAX (707) 792-0342

Blaine Tech Services  
1680 Rogers Avenue  
San Jose, CA 95112  
  
Attention: Fran Thie

Client Proj. ID: Chevron 9-1851/980623-M1  
Sample Descript: MW-3  
Matrix: LIQUID  
Analysis Method: EPA 8260  
Lab Number: 9806G04-03

Sampled: 06/23/98  
Received: 06/24/98  
  
Analyzed: 07/07/98  
Reported: 07/14/98

Analyte	Detection Limit ug/L	Sample Results ug/L
Ethanol	5000	N.D.
t-Butanol	1000	N.D.
<b>Methyl t-Butyl Ether (MTBE)</b>	<b>20</b>	<b>420</b>
Di-Isopropyl Ether (DIPE)	20	N.D.
Ethyl t-Butyl Ether (ETBE)	20	N.D.
<b>t-Amyl Methyl Ether (TAME)</b>	<b>20</b>	<b>26</b>
Surrogates	Control Limits %	% Recovery
1,2-Dichloroethane-d4	76	114
		126 Q

Analytes reported as N.D. were not present above the stated limit of detection.

**SEQUOIA ANALYTICAL - ELAP #1624**

Mike Gregory  
Project Manager



# Sequoia Analytical

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Blaine Tech Services  
1680 Rogers Avenue  
San Jose, CA 95112  
  
Attention: Fran Thie

Client Proj. ID: Chevron 9-1851/980623-M1  
Sample Descript: MW-3  
Matrix: LIQUID  
Analysis Method: 8015Mod/8020  
Lab Number: 9806G04-03

Sampled: 06/23/98  
Received: 06/24/98  
  
Analyzed: 06/30/98  
Reported: 07/14/98

QC Batch Number: GC063098802007A  
Instrument ID: GC-7

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	390
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	87

Analyses reported as N.D. were not present above the stated limit of detection.

**SEQUOIA ANALYTICAL - ELAP #1210**

Mike Gregory  
Project Manager

Page:

6



**Sequoia  
Analytical**

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Blaine Tech Services  
1680 Rogers Avenue  
San Jose, CA 95112  
  
Attention: Fran Thie

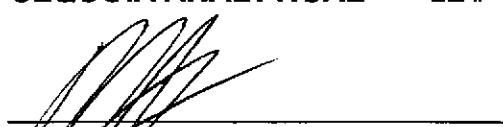
Client Proj. ID: Chevron 9-1851/980623-M1  
Sample Descript: MW-4  
Matrix: LIQUID  
Analysis Method: EPA 8260  
Lab Number: 9806G04-04

Sampled: 06/23/98  
Received: 06/24/98  
  
Analyzed: 07/07/98  
Reported: 07/14/98

Analyte	Detection Limit ug/L	Sample Results ug/L
Ethanol	50000	N.D.
t-Butanol	10000	N.D.
<b>Methyl t-Butyl Ether (MTBE)</b>	<b>200</b>	<b>11000</b>
Di-Isopropyl Ether (DIPE)	200	N.D.
Ethyl t-Butyl Ether (ETBE)	200	N.D.
<b>t-Amyl Methyl Ether (TAME)</b>	<b>200</b>	<b>860</b>
Surrogates	Control Limits %	% Recovery
1,2-Dichloroethane-d4	76	114
		106

Analytes reported as N.D. were not present above the stated limit of detection.

**SEQUOIA ANALYTICAL - ELAP #1624**

  
Mike Gregory  
Project Manager

Page:

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**Sequoia  
Analytical**

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FAX (707) 792-0342

Blaine Tech Services  
1680 Rogers Avenue  
San Jose, CA 95112  
Attention: Fran Thie

Client Proj. ID: Chevron 9-1851/980623-M1  
Sample Descript: MW-4  
Matrix: LIQUID  
Analysis Method: 8015Mod/8020  
Lab Number: 9806G04-04

Sampled: 06/23/98  
Received: 06/24/98  
Analyzed: 06/29/98  
Reported: 07/14/98

QC Batch Number: GC062998802007A  
Instrument ID: GC-7

Analyte	Detection Limit ug/L	Sample Results ug/L	
TPPH as Gas	.....	50	550
Methyl t-Butyl Ether	.....	25	6800
Benzene	0.50	.....	N.D.
Toluene	0.50	.....	N.D.
Ethyl Benzene	0.50	.....	N.D.
Xylenes (Total)	0.50	.....	N.D.
Chromatogram Pattern:	.....	.....	.....
Unidentified HC	.....	.....	C6-C12
Surrogates		Control Limits %	% Recovery
Trifluorotoluene		70 130	94

Analytes reported as N.D. were not present above the stated limit of detection.

**SEQUOIA ANALYTICAL - ELAP #1210**

  
Mike Gregory  
Project Manager



# Sequoia Analytical

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Blaine Tech Services  
1680 Rogers Avenue  
San Jose, CA 95112  
  
Attention: Fran Thie

Client Proj. ID: Chevron 9-1851/980623-M1  
Sample Descript: TB  
Matrix: LIQUID  
Analysis Method: 8015Mod/8020  
Lab Number: 9806G04-05

Sampled: 06/23/98  
Received: 06/24/98  
  
Analyzed: 06/29/98  
Reported: 07/14/98

QC Batch Number: GC062998802007A  
Instrument ID: GC-7

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	86

Analytes reported as N.D. were not present above the stated limit of detection.

**SEQUOIA ANALYTICAL - ELAP #1210**

  
Mike Gregory  
Project Manager



**Sequoia  
Analytical**

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Blaine Tech Services  
1680 Rogers Avenue  
San Jose, CA 95112  
Attention: Fran Thie

Client Proj. ID: Chevron 9-1851/980623-M1

Received: 06/24/98

Lab Proj. ID: 9806G04

Reported: 07/14/98

## LABORATORY NARRATIVE

In order to properly interpret this report, it must be reproduced in its entirety. This report contains a total of 14 pages including the laboratory narrative, sample results, quality control, and related documents as required (cover page, COC, raw data, etc.).

#Q - Surrogate coelution was confirmed.

OXY(8260) :

Sample 9806G04-01 was diluted 100-fold.  
Sample 9806G04-03 was diluted 10-fold.  
Sample 9806G04-04 was diluted 100-fold.

TPH-GAS/BTEX:

Sample 9806G04-04 was diluted 10-fold.

**SEQUOIA ANALYTICAL**

Mike Gregory  
Project Manager

Page: 1



**Sequoia  
Analytical**

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Blaine Tech Services, Inc.  
1680 Rogers Ave.  
San Jose, CA 95112  
Attention: Fran Thie

Client Project ID: Chevron 9-1851 / 980623-M1  
Matrix: Liquid

Work Order #: 9806G04 -01, 04, 05

Reported: Jul 14, 1998

## QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Gas
QC Batch#:	GC062998802007A	GC062998802007A	GC062998802007A	GC062998802007A	GC062998802007A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8015M
Prep. Method:	EPA 5030				

Analyst:	S.L.	S.L.	S.L.	S.L.	S.L.
MS/MSD #:	98060720	98060720	98060720	98060720	-
Sample Conc.:	86.4	N.D.	N.D.	N.D.	-
Prepared Date:	6/29/98	6/29/98	6/29/98	6/29/98	-
Analyzed Date:	6/29/98	6/29/98	6/29/98	6/29/98	-
Instrument I.D. #:	GC7	GC7	GC7	GC7	-
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	-
Result:	100.2	20.3	21.9	66.2	-
MS % Recovery:	69	102	110	110	-
Dup. Result:	97.1	20.9	22.1	67	-
MSD % Recov.:	54	105	111	112	-
RPD:	3.1	2.9	0.91	1.2	-
RPD Limit:	0-25	0-25	0-25	0-25	-

LCS #:	LCS062998	LCS062998	LCS062998	LCS062998	LCS062998
Prepared Date:	6/29/98	6/29/98	6/29/98	6/29/98	6/29/98
Analyzed Date:	6/29/98	6/29/98	6/29/98	6/29/98	6/29/98
Instrument I.D. #:	GC7	GC7	GC7	GC7	GC7
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	500 µg/L
LCS Result:	19	19.3	20.2	63.5	463
LCS % Recov.:	95	97	101	106	93

MS/MSD	60-140	60-140	60-140	60-140	
LCS	70-130	70-130	70-130	70-130	
Control Limits					60-140

**SEQUOIA ANALYTICAL**  
Elap #2142

Mike Gregory  
Project Manager

Please Note:

The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

\*\* MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

9806G04.BLA <1>



**Sequoia  
Analytical**

680 Chesapeake Drive 404 N. Wiget Lane 819 Striker Avenue, Suite 8 1455 McDowell Blvd. North, Ste. D	Redwood City, CA 94063 Walnut Creek, CA 94598 Sacramento, CA 95834 Petaluma, CA 94954	(650) 364-9600 (925) 988-9600 (916) 921-9600 (707) 792-1865	FAX (650) 364-9233 FAX (925) 988-9673 FAX (916) 921-0100 FAX (707) 792-0342
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Blaine Tech Services, Inc.  
1680 Rogers Ave.  
San Jose, CA 95112  
Attention: Fran Thie

Client Project ID: Chevron 9-1851 / 980623-M1  
Matrix: Liquid

Work Order #: 9806G04-02, 03

Reported: Jul 14, 1998

## QUALITY CONTROL DATA REPORT

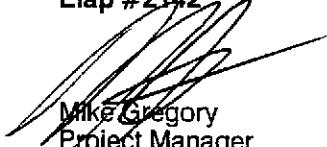
Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Gas
QC Batch#:	GC063098802007A	GC063098802007A	GC063098802007A	GC063098802007A	GC063098802007A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8015M
Prep. Method:	EPA 5030				

<b>Analyst:</b>	S.L.	S.L.	S.L.	S.L.	S.L.
<b>MS/MSD #:</b>	98060728	98060728	98060728	98060728	-
<b>Sample Conc.:</b>	405	608	323	140	-
<b>Prepared Date:</b>	6/30/98	6/30/98	6/30/98	6/30/98	-
<b>Analyzed Date:</b>	6/30/98	6/30/98	6/30/98	6/30/98	-
<b>Instrument I.D. #:</b>	GC7	GC7	GC7	GC7	-
<b>Conc. Spiked:</b>	20 µg/L	20 µg/L	20 µg/L	60 µg/L	-
 <b>Result:</b>	105	591	339	192	-
<b>MS % Recovery:</b>	-	-	-	87	-
 <b>Dup. Result:</b>	418	605	348	198	-
<b>MSD % Recov.:</b>	-	-	-	97	-
 <b>RPD:</b>	119.7	2.3	2.6	3.1	-
<b>RPD Limit:</b>	0-25	0-25	0-25	0-25	-

<b>LCS #:</b>	LCS063098	LCS063098	LCS063098	LCS063098	LCS063098
<b>Prepared Date:</b>	6/30/98	6/30/98	6/30/98	6/30/98	6/30/98
<b>Analyzed Date:</b>	6/30/98	6/30/98	6/30/98	6/30/98	6/30/98
<b>Instrument I.D. #:</b>	GC7	GC7	GC7	GC7	GC7
<b>Conc. Spiked:</b>	20 µg/L	20 µg/L	20 µg/L	60 µg/L	500 µg/L
 <b>LCS Result:</b>	20.4	20.5	22	66.8	476
<b>LCS % Recov.:</b>	102	103	110	111	95

<b>MS/MSD</b>	60-140	60-140	60-140	60-140	
<b>LCS</b>	70-130	70-130	70-130	70-130	60-140
<b>Control Limits</b>					

**SEQUOIA ANALYTICAL**  
Elap #2142

  
Mike Gregory  
Project Manager

Please Note:

The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.



**Sequoia  
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Blaine Tech Services, Inc.  
1680 Rogers Ave.  
San Jose, CA 95112  
Attention: Fran Thie

Client Project ID: Chevron 9-1851 / 980623-M1  
Matrix: Liquid

Work Order #: 9806G04-01-04

Reported: Jul 14, 1998

## QUALITY CONTROL DATA REPORT

**Analyte:** MTBE

**QC Batch#:** 8070122  
**Analy. Method:** EPA 8260  
**Prep. Method:** N.A.

**Analyst:** R. Bobel  
**LCS/LCSD #:** LCS070798  
**Sample Conc.:** N.D.  
**Prepared Date:** 7/7/98  
**Analyzed Date:** 7/7/98  
**Instrument I.D. #:** -  
**Conc. Spiked:** 50 µg/L

**Result:** 45  
**LCS % Recovery:** 90

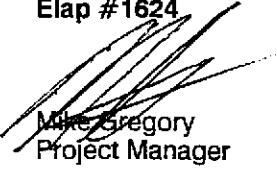
**Dup. Result:** 47.5  
**LCSD % Recov.:** 95

**RPD:** 5.4  
**RPD Limit:** 0-25

**MS/MSD** 60-140  
**LCS** 70-130  
**Control Limits**

**SEQUOIA ANALYTICAL**  
Elap #1624

**Please Note:**  
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

  
Mike Gregory  
Project Manager

\*\* MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

9806G04.BLA <3>

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

Yes

No

### Chain-of-Custody-Record

**Distinguished By (Signature)**

Organization  
BTS

Date/Time 10:  
6/24/98

Received By (Signature)

**Organization**

Date/Time 10:00  
10/08/13

**Turn Around Time (Circle Choices)**

24 Hz

10 Hz.

6 Days

10 Days

**As Contracted**

Unlocked By (Signature)

#### **Organization**

Date/Time  
1/11/16 3

Received By (Signature)

### Organisation

~~Date/Time~~

6 Days

10 Days

### • Contrato

Weld Sp. (Structure)

OpenOptions

7-1970

#### Revised Sea Laboratory No. (Structure)

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第十一章

As Contas

**Field  
Data  
Sheets**

## WELL GAUGING DATA

Project # 980623-m1 Date 6/23 Client 9-1851

Site 451 Negenberger, Oakland

# CHEVRON WELL MONITORING DATA SHEET

Project #: 980623-M1	Station #: 9-1851
Sampler: PW, LG	Date: 6/23
Well I.D.: MW-5 MW-1	Well Diameter: (2) 3 4 6 8
Total Well Depth: 14.58	Depth to Water: 3.34
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC	D.O. Meter (if req'd): YSI HACH

<u>Well Diameter</u>	<u>Multiplier</u>	<u>Well Diameter</u>	<u>Multiplier</u>
2"	0.16	5"	1.02
3"	0.37	6"	1.47
4"	0.65	Other	radius <sup>2</sup> * 0.163

Purge Method: Bailer  
 Disposable Bailer ✓  
 Middleburg  
 Electric Submersible  
 Extraction Pump  
 Other: \_\_\_\_\_

Sampling Method: Bailer  
 Disposable Bailer ✓  
 Extraction Port  
 Other: \_\_\_\_\_

$$\frac{1.7}{1 \text{ Case Volume (Gals.)}} \times \frac{3}{\text{Specified Volumes}} = \frac{5.1}{\text{Calculated Volume}} \text{ Gals.}$$

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
1205	71.0	6.8	3600	2	
1207	71.0	6.8	3600	4	
1209	71.0	6.8	3800	6	

Did well dewater? Yes  No Gallons actually evacuated: 6

Sampling Time: 1215 Sampling Date: 6/23

Sample I.D.: MW-1 Laboratory: Sequoia GTEL N. Creek Assoc. Labs

Analyzed for: TPH-G BTEX MTBE TPH-D Other: 8260

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 #: 980623-M1	Station #: 9-1851
Sampler: MW, LG	Date: 6/23
Well I.D.: MW-2	Well Diameter: (2) 3 4 6 8
Total Well Depth: 1485	Depth to Water: 4.05
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC	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	radius <sup>2</sup> * 0.163

Purge Method: Bailer  
 Disposable Bailer X  
 Middleburg  
 Electric Submersible  
 Extraction Pump  
 Other: \_\_\_\_\_

Sampling Method: Bailer  
 Disposable Bailer X  
 Extraction Port  
 Other: \_\_\_\_\_

1.7	x	3	=	5.1	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
1220	70	7.0	6200	2	Sheen
1222	70	7.0	7600	4	"
1224	70.2	7.0	7000	6	"

Did well dewater? Yes No Gallons actually evacuated: 6

Sampling Time: 1228 Sampling Date: 6/23

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

Analyzed for: TPH-G BTEX MTBE TPH-D Other: 8260

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 #: 980623-m1	Station #: 9-1851		
Sampler: MW, LG	Date:		
Well I.D.: <del>MW-T</del> MW-3	Well Diameter: (2) 3 4 6 8		
Total Well Depth: 14.50	14.62	Depth to Water: 3.37	3.25
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	radius <sup>2</sup> * 0.163

Purge Method: Bailer  
 Disposable Bailer ✓  
 Middleburg  
 Electric Submersible  
 Extraction Pump  
 Other: \_\_\_\_\_

Sampling Method: Bailer  
 Disposable Bailer ✓  
 Extraction Port  
 Other: \_\_\_\_\_

1.7	X	3	=	5.3	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
1150	71.9	7.2	3600	2	
1153	71.9	6.2	3800	4	
1156	72.2	6.2	3800	6	

Did well dewater? Yes No Gallons actually evacuated: 6

Sampling Time: 1200 Sampling Date: 6/23

Sample I.D.: ~~MW-T~~ MW-3 Laboratory: Sequoia GTEL N. Creek Assoc. Labs

Analyzed for: TPH-G BTEX MTBE TPH-D Other: Onq. 8260

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 #: 980623-m1	Station #: 9-1851	
Sampler: MW, LF	Date: 6/23	
Well I.D.: MW-4	Well Diameter: (2) 3 4 6 8	
Total Well Depth: 15-00	Depth to Water: 4-88	
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	radius <sup>2</sup> * 0.163

Purge Method: Bailer  
 Disposable Bailer  
 Middleburg  
 Electric Submersible  
 Extraction Pump  
 Other: \_\_\_\_\_

Sampling Method: Bailer  
 Disposable Bailer  
 Extraction Port  
 Other: \_\_\_\_\_

$$\frac{1.6}{\text{1 Case Volume (Gals.)}} \times \frac{3}{\text{Specified Volumes}} = \frac{4.8}{\text{Calculated Volume}} \text{ Gals.}$$

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
1230	70.0	7.0	3800	1.5	
1232	70.0	7.2	2600	3.0	
1234	70.0	7.2	4000	5.0	

Did well dewater? Yes  No Gallons actually evacuated: 5.0

Sampling Time: 1235 Sampling Date: 6/23

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

Analyzed for: TPH-G BTEX MTBE TPH-D Other: 8260

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