Chevron

September 2, 1998

Chevron Products Company
6001 Bollinger Canyon Road
Building L, Room 1110
PO Box 6004
San Ramon, CA 94583-0904

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

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

9-10-98
Phil will send another cover letter that will identify a gw sample was taken from MW-5 on 7-16-98

Re: Former Signal Service Station #S0800
800 Center Street
Oakland, California

Dear Mr. Seto:

Enclosed is a copy of the Third Quarter Groundwater Monitoring report for 1998 that was prepared by our consultant Blaine Tech Services, Inc. for the above noted facility. Groundwater samples were analyzed for TPH-g, BTEX and MtBE constituents. Monitoring wells MW-2 and MW-7 are sampled annually (1st quarter) with wells MW-4 and MW-5 sampled semi-annually (1st & 3rd quarters). Wells MW-1, MW-3 and MW-6 are sampled quarterly.

In monitoring wells MW-4 and MW-6 the concentrations were below method detection limits for all the constituents. The benzene concentration increased in monitoring wells MW-1 and MW-3 from the previous sampling event. No sample was taken from well MW-5, as it was inaccessible.

The depth to ground water varied from 6.00 feet to 6.93 feet below grade with a direction of flow southwesterly.

You requested that bacteria counts be made of hydrocarbon-degraders, which are to be used in the review/recommendation to the Work Plan Chevron submitted, to address residual subsurface hydrocarbons at this site. The bacteria counts are noted as CUB in the Table of Well Data and Analytical Results.

Chevron will continue to monitor the site based on the sampling frequency noted above. If you have any questions please call me at (925) 842-9136.

Sincerely,
CHEVRON PRODUCTS COMPANY

Philip R. Briggs
Site Assessment and Remediation Project Manager

Enclosure

cc: Ms. Bette Owen, Chevron

Ms. Ann Payne, Chevron, V-1156

Mr. Terrell A. Sadler
618 Brooklyn Avenue
Oakland, CA. 94606

Mr. James Scott
BPH, Inc.
333 Hegenberger Road, Suite 209
Oakland, CA 94621

Mr. Hollis Rodgers
c/o Victor E. Brown, Esq.
580 Grand Avenue
Oakland, CA 94610

Mr. James Perkins, R.G., C.E.M.
Pacific Environmental Group, Inc.
2025 Gateway Place, Suite 440
San Jose, CA 95110

BLAINE
TECH SERVICES, INC.

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

August 24, 1998

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

3rd Quarter 1998 Monitoring at 206145 (S-800)

Third Quarter 1998 Groundwater Monitoring at
Former Chevron Service Station Number 206145
800 Center St.
Oakland, CA

Monitoring Performed on July 16 & August 4, 1998

Groundwater Sampling Report **980716-P-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.

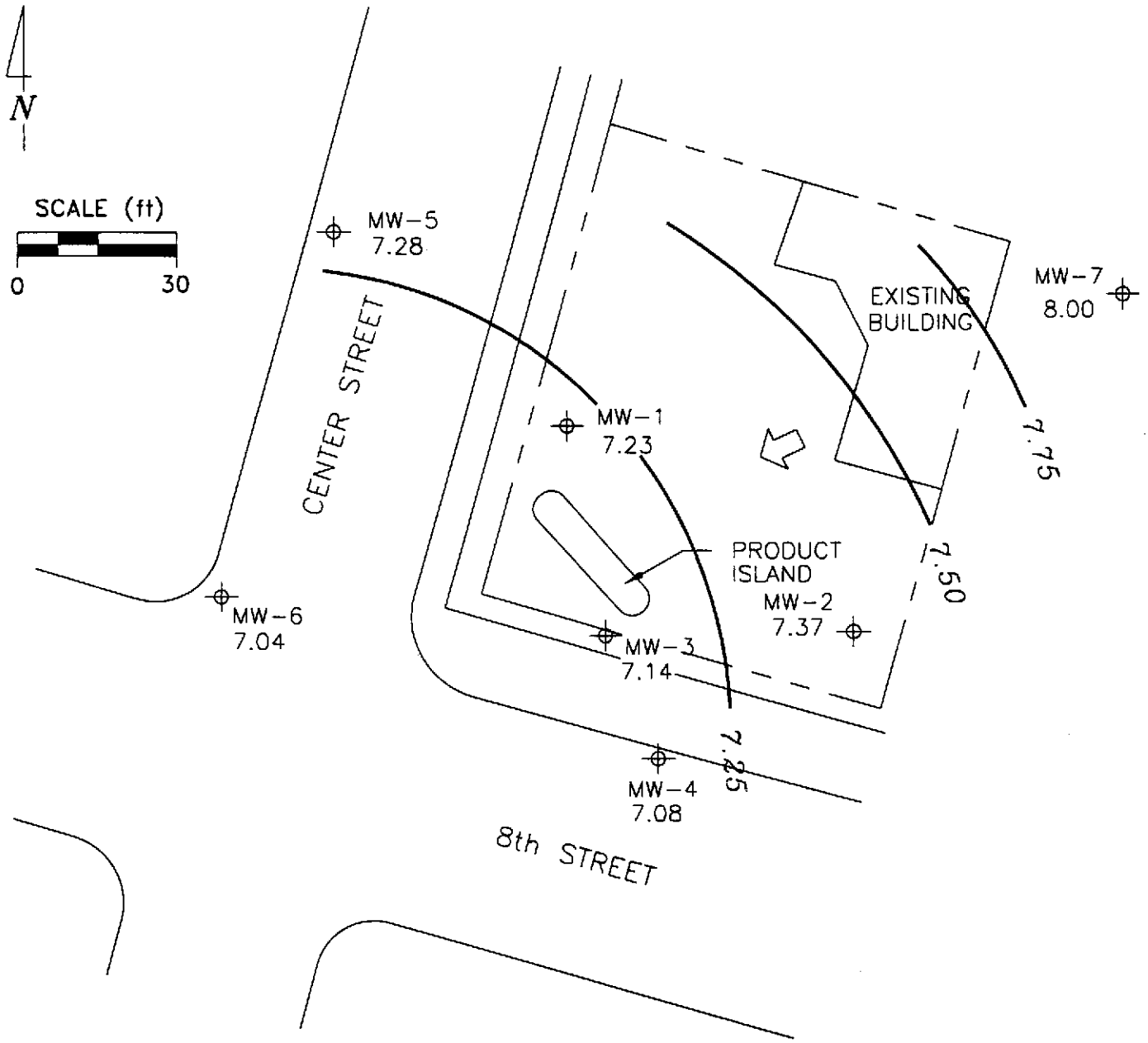
Yours truly,

Francis Thie
Vice President

FPT/ap

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

Professional Engineering Appendix



EXPLANATON

- MONITORING WELL
- 8.40 GROUNDWATER ELEVATION (FT, MSL)
- 8.50 GROUNDWATER ELEVATION CONTOUR (FT, MSL)
- APPROXIMATE GROUNDWATER FLOW DIRECTION; APPROXIMATE GRADIENT = 0.005
- NA – DATA NOT AVAILABLE

REGISTERED GEOLOGIST
STEVEN E. KROIK
No. 4978
STATE OF CALIFORNIA

Basemap from Ron Archer Engineer Inc.

PREPARED BY RRM engineering contracting firm	**Former Signal Service Station 206145** 800 Center Street Oakland, California **GROUNDWATER ELEVATION CONTOUR MAP, JULY 16, 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	CUB (cfu/ml)
MW-1											
10/27/95	15.69	10.54	5.15	--	170,000	19,000	34,000	4800	26,000	--	--
02/20/97	15.64	8.96	6.68	--	18,000	870	3500	470	2100	<250	--
04/24/97	15.64	7.30	8.34	--	76,000	4600	16,000	1600	8300	1000	--
07/23/97	15.64	5.90	9.74	--	37,000	2700	8000	870	6100	<250	--
10/29/97	15.64	--	--	Inaccessible	--	--	--	--	--	--	--
01/28/98	15.64	9.30	6.34	--	10,000	380	2000	300	1500	<25	--
05/11/98	15.64	8.72	6.92	--	17,000	880	3100	380	2300	<250	--
07/16/98	15.64	7.23	8.41	--	29,000	2700	6800	890	3900	<1000	--
08/04/98	15.64	6.90	8.74	--	--	--	--	--	--	--	$<1.0 \times 10^1$
MW-2											
10/27/95	15.77	10.60	5.17	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
02/20/97	15.72	8.51	7.21	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
04/24/97	15.72	7.82	7.90	--	83*	<0.5	<0.5	<0.5	<0.5	<2.5	--
07/23/97	15.72	5.92	9.80	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
10/29/97	15.72	5.13	10.59	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
01/28/98	15.72	9.21	6.51	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
05/11/98	15.72	8.82	6.90	Sampled annually	--	--	--	--	--	--	--
07/16/98	15.72	7.37	8.35	--	--	--	--	--	--	--	--
08/04/98	15.72	7.03	8.69	--	--	--	--	--	--	--	1.9×10^1
MW-3											
10/27/95	15.46	10.37	5.09	--	33,000	11,000	1700	2300	4200	--	--
02/20/97	15.42	8.37	7.05	--	260	56	<1.0	7.6	5.9	<5.0	--
04/24/97	15.42	7.29	8.13	--	1400	310	28	76	75	74	--
07/23/97	15.42	5.84	9.58	--	37,000	10,000	1500	2700	4200	2500	--
10/29/97	15.42	5.09	10.33	--	53,000	12,000	1200	3000	3100	2500	--
01/28/98	15.42	8.94	6.48	--	210	43	1.5	1.7	3.9	10	--
05/11/98	15.42	8.49	6.93	--	59	11	<0.5	2.1	<0.5	<2.5	--
07/16/98	15.42	7.14	8.28	--	260	90	4.8	18	5.7	<10	--
08/04/98	15.42	6.88	8.54	--	--	--	--	--	--	--	8.5×10^2

* Chromatogram pattern indicates an unidentified hydrocarbon.

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	CUB (cfu/ml)
MW-4											
10/27/95	14.45	9.37	5.08	--	66	6.8	<0.5	<0.5	<0.5	--	--
02/20/97	14.40	8.12	6.28	--	54	<0.5	<0.5	<0.5	7.4	39	--
04/24/97	14.40	7.29	7.11	--	54	1.4	<0.5	0.65	3.0	100	--
07/23/97	14.40	5.80	8.60	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
10/29/97	14.40	5.74	8.66	Inaccessible	--	--	--	--	--	--	--
11/13/97	14.40	4.97	9.43	--	<50	<0.5	0.79	<0.5	<0.5	<2.5	--
01/28/98	14.40	8.88	5.52	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
05/11/98	14.40	8.40	6.00	Sampled biannually	--	--	--	--	--	--	--
07/16/98	14.40	7.08	7.32	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
08/04/98	14.40	6.28	8.12	--	--	--	--	--	--	--	1.8×10^4
MW-5											
01/03/97	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
02/20/97	15.03	--	--	Inaccessible	--	--	--	--	--	--	--
04/24/97	15.03	--	--	Inaccessible	--	--	--	--	--	--	--
04/30/97	15.03	7.06	7.97	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
07/23/97	15.03	--	--	Inaccessible	--	--	--	--	--	--	--
10/29/97	15.03	--	--	Inaccessible	--	--	--	--	--	--	--
01/28/98	15.03	8.83	6.20	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
05/11/98	15.03	--	--	Inaccessible	--	--	--	--	--	--	--
07/16/98	15.03	7.28	7.75	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
08/04/98	15.03	--	--	Inaccessible	--	--	--	--	--	--	--
MW-6											
01/03/97	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
02/20/97	14.73	8.11	6.62	--	800	310	23	11	28	<12	--
04/24/97	14.73	7.13	7.60	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
07/23/97	14.73	5.73	9.00	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
10/29/97	14.73	4.98	9.75	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
01/28/98	14.73	8.19	6.54	--	160	38	<0.5	<0.5	<0.5	<2.5	--
05/11/98	14.73	8.08	6.65	--	1700	490	72	39	52	<25	--
07/16/98	14.73	7.04	7.69	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
08/04/98	14.73	6.89	7.84	--	--	--	--	--	--	--	8.6×10^3

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	CUB (cfu/ml)
MW-7											
01/03/97	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
02/20/97	16.36	8.86	7.50	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
04/24/97	16.36	7.59	8.77	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
07/23/97	16.36	6.09	10.27	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
10/29/97	16.36	5.28	11.08	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
01/28/98	16.36	9.10	7.26	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
05/11/98	16.36	9.11	7.25	Sampled annually	--	--	--	--	--	--	--
07/16/98	16.36	8.00	8.36	--	--	--	--	--	--	--	--
08/04/98	16.36	7.32	9.04	--	--	--	--	--	--	--	1.5×10^3
TRIP BLANK											
02/20/97	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
04/24/97	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
07/23/97	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
10/29/97	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
01/28/98	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
05/11/98	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
07/16/98	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--

Note: Blaine Tech Services, Inc. began routine monitoring of the groundwater wells at this site on February 20, 1997. Earlier field data and analytical results are drawn from the January 24, 1997 Groundwater Technology, Inc. report.

ABBREVIATIONS:
TPH = Total Petroleum Hydrocarbons
MTBE = Methyl t-Butyl Ether
ND = Not detected at or above the minimum quantitation limit. See laboratory reports for minimum quantitation limits.
CUB = Contaminate Utilizing Baceria

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

Blaine Tech Services	Client Proj. ID: Chevron 206145/980716-P1	Sampled: 07/16/98
1680 Rogers Avenue	Sample Descript: MW-1	Received: 07/17/98
San Jose, CA 95112	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 07/30/98
Attention: Fran Thie	Lab Number: 9807A86-01	Reported: 08/05/98

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	**10000**	**29000**
Methyl t-Butyl Ether	1000	N.D.
Benzene	**100**	**2700**
Toluene	**100**	**6800**
Ethyl Benzene	**100**	**890**
Xylenes (Total)	**100**	**3900**
Chromatogram Pattern:		**GAS**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	89

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, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
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Blaine Tech Services	Client Proj. ID: Chevron 206145/980716-P1	Sampled: 07/16/98
1680 Rogers Avenue	Sample Descript: MW-3	Received: 07/17/98
San Jose, CA 95112	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 07/30/98
Attention: Fran Thie	Lab Number: 9807A86-02	Reported: 08/05/98

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	**100**	**260**
Methyl t-Butyl Ether	10	N.D.
Benzene	**1.0**	**90**
Toluene	**1.0**	**4.8**
Ethyl Benzene	**1.0**	**18**
Xylenes (Total)	**1.0**	**5.7**
Chromatogram Pattern:		**GAS**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	89

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	Client Proj. ID: Chevron 206145/980716-P1	Sampled: 07/16/98
1680 Rogers Avenue	Sample Descript: MW-4	Received: 07/17/98
San Jose, CA 95112	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 07/29/98
Attention: Fran Thie	Lab Number: 9807A86-03	Reported: 08/05/98

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	5.0	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	87

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	Client Proj. ID: Chevron 206145/980716-P1	Sampled: 07/16/98
1680 Rogers Avenue	Sample Descript: MW-5	Received: 07/17/98
San Jose, CA 95112	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 07/29/98
Attention: Fran Thie	Lab Number: 9807A86-04	Reported: 08/05/98

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	5.0	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	92

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	Client Proj. ID: Chevron 206145/980716-P1	Sampled: 07/16/98
1680 Rogers Avenue	Sample Descript: MW-6	Received: 07/17/98
San Jose, CA 95112	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 07/29/98
Attention: Fran Thie	Lab Number: 9807A86-05	Reported: 08/05/98

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	5.0	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 #1624

Mike Gregory
Project Manager

Sequoia Analytical

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Blaine Tech Services	Client Proj. ID: Chevron 206145/980716-P1	Sampled: 07/16/98
1680 Rogers Avenue	Sample Descript: TB	Received: 07/17/98
San Jose, CA 95112	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 07/29/98
Attention: Fran Thie	Lab Number: 9807A86-06	Reported: 08/05/98

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	5.0	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	90

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

SEQUOIA ANALYTICAL - ELAP #1624

Mike Gregory
Project Manager

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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

Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112 Attention: Fran Thie	Client Proj. ID: Chevron 206145/980716-P1 Lab Proj. ID: 9807A86	Received: 07/17/98 Reported: 08/05/98

LABORATORY NARRATIVE

In order to properly interpret this report, it must be reproduced in its entirety. This report contains a total of 10 pages including the laboratory narrative, sample results, quality control, and related documents as required (cover page, COC, raw data, etc.).

TPH-GAS/BTEX:
Sample 9807A86-01 was diluted 200-fold.
Sample 9807A86-02 was diluted 2-fold.

SEQUOIA ANALYTICAL

Mike Gregory
Project Manager

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

Client Project ID: Chevron 206145/ 980716-P1
Matrix: Liquid
Work Order #: 9807A86 -03-06
Reported: Aug 5, 1998

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	MTBE
QC Batch#:	8070381	8070381	8070381	8070381	8070381
Analy. Method:	EPA 5030B	EPA 5030B	EPA 5030B	EPA 5030B	EPA 5030B
Prep. Method:	N/A	N/A	N/A	N/A	N/A
Analyst:	R. Bobel	R. Bobel	R. Bobel	R. Bobel	R. Bobel
MS/MSD #:	BLK072998	BLK072998	BLK072998	BLK072998	BLK072998
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	7/29/98	7/29/98	7/29/98	7/29/98	7/29/98
Analyzed Date:	7/29/98	7/29/98	7/29/98	7/29/98	7/29/98
Instrument I.D.#:	-	-	-	-	-
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	10 µg/L
Result:	10.2	9.66	10.2	30.2	12.3
MS % Recovery:	102	96.6	102	101	123
Dup. Result:	9.07	8.41	8.52	26	11.2
MSD % Recov.:	90.7	84.1	85.2	86.7	112
RPD:	11.7	13.8	17.9	14.9	9.4
RPD Limit:	0-25	0-25	0-25	0-25	0-25
LCS #:	LCS072998	LCS072998	LCS072998	LCS072998	LCS072998
Prepared Date:	7/29/98	7/29/98	7/29/98	7/29/98	7/29/98
Analyzed Date:	7/29/98	7/29/98	7/29/98	7/29/98	7/29/98
Instrument I.D.#:	-	-	-	-	-
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	10 µg/L
LCS Result:	9.55	9.04	8.82	26.4	10.8
LCS % Recov.:	95.5	90.4	88.2	88	108
MS/MSD Control Limits	60-140	60-140	60-140	60-140	60-140
LCS Control Limits	70-130	70-130	70-130	70-130	70-130

SEQUOIA ANALYTICAL
Elap #1624

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

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
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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

Blaine Tech Services, Inc.	Client Project ID:	Chevron 206145/ 980716-P1	
1680 Rogers Ave.	Matrix:	Liquid	
San Jose, CA 95112			
Attention: Fran Thie	Work Order #:	9807A86-01-02	Reported: Aug 5, 1998

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	MTBE
QC Batch#:	8070394	8070394	8070394	8070394	8070394
Analy. Method:	EPA 5030B	EPA 5030B	EPA 5030B	EPA 5030B	EPA 5030B
Prep. Method:	N/A	N/A	N/A	N/A	N/A
Analyst:	R. Bobel	R. Bobel	R. Bobel	R. Bobel	R. Bobel
MS/MSD #:	BLK073098	BLK073098	BLK073098	BLK073098	BLK073098
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	7/30/98	7/30/98	7/30/98	7/30/98	7/30/98
Analyzed Date:	7/30/98	7/30/98	7/30/98	7/30/98	7/30/98
Instrument I.D.#:	-	-	-	-	-
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	10 µg/L
Result:	9.64	9.16	8.95	27	11.5
MS % Recovery:	96.4	91.6	89.5	90	115
Dup. Result:	10	9.47	9.25	27.9	12.7
MSD % Recov.:	100	94.7	92.5	93	127
RPD:	3.7	3.3	3.3	3.3	9.9
RPD Limit:	0-25	0-25	0-25	0-25	0-25
LCS #:	LCS073098	LCS073098	LCS073098	LCS073098	LCS073098
Prepared Date:	7/30/98	7/30/98	7/30/98	7/30/98	7/30/98
Analyzed Date:	7/30/98	7/30/98	7/30/98	7/30/98	7/30/98
Instrument I.D.#:	-	-	-	-	-
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	10 µg/L
LCS Result:	9.8	9.37	9.21	27.5	10.6
LCS % Recov.:	98	93.7	92.1	91.7	106
MS/MSD Control Limits	60-140	60-140	60-140	60-140	60-140
LCS Control Limits	70-130	70-130	70-130	70-130	70-130

SEQUOIA ANALYTICAL
Elap #1624

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

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

Chain-of-Custody-Recor

Chevron U.S.A. Inc.
P.O. BOX 5004
San Ramon, CA 94583
FAX (415)842-9591

Chevron Facility Number: 206145
Facility Address: 800 Center St., Oakland, CA
Consultant Project Number:
Consultant Name: Blaine Tech Services, Inc.
Address: 1680 Rogers Ave., San Jose, CA 95112
Project Contact (Name): Fran Thie
(Phone) 408-573-0555 (Fax Number) 408-573-7771

Chevron Contact (Name): Phil Briggs
(Phone): (510) 842-9136
Laboratory Name: Sequoia
Laboratory Release Number: 9013363
Samples Collected by (Name):
Collection Date: 7-16-98
Signature: RCS

Sample Number	Lab Sample Number	Number of Containers	Matrix: S = Soil A = Air W = Water C = Charcoal	Type: C = Grab Composite D = Discrete	Time	Sample Preservation	Iced (Yes or No)	BTEX + TPH GAS (8020 + 8015) MTBE	TPH Diesel (8015)	Oil and Grease (5520)	Purgeable Halocarbons (8010)	Purgeable Aromatics (8020)	Purgeable Organics (8240)	Extractable Organics (8270)	Metals Cd,Cr,Pb,Zn,Ni (ICP or AA)			9807A86			
MW-1		3	W		9:41			X													
MW-3		3			9:05			X													
MW-4		3			8:15			X													
MW-5		3			8:45			X													
MW-6		3			9:22			X													
TB		2						X													

Analyses To Be Performed

DO NOT BILL FOR TB-LB

Remarks

5 17 1 38

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
	Blaine	7/16/98 16:00		Sequoia	7/17/98 11:17
Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
		7/17/98			
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature)		Date/Time
					7/17/98 13:38

Turn Around Time (Circle Choice)

24 Hrs.
48 Hrs.
5 Days
10 Days
As Contracted

CytoCulture
ENVIRONMENTAL
BIOTECHNOLOGY
CytoCulture International, Inc. 1986

August 13, 1998

Client: Sequoia Analytical
Contact: Mike Gregory

Project Description/Code: 9808168
Tel: 650-364-9600 **Fax:** 650-364-9233

SAMPLES: Six water samples were received on 8/6/98. The samples were stored at 4°C until assayed on 8/6/98.

Hydrocarbon-Degrading Bacteria Enumeration Assays

ANALYSIS REQUEST: Bacterial enumeration for total petroleum hydrocarbon-degraders (broad range petroleum hydrocarbons: diesel and jet fuel) in water.

CARBON SOURCE: Petroleum hydrocarbons were added as the sole carbon and energy sources for the growth of hydrocarbon-degrading aerobic bacteria on agar plates. Diesel (Chevron #2) and JP-4 Jet Fuel were blended in a 50:50 ratio and dissolved into the agar to provide aliphatic and aromatic hydrocarbons in the growth matrix.

PROTOCOLS:

Hydrocarbon Degraders: Sterile agar plates (100 x 15 mm) were prepared with minimal salts medium at pH 6.8 with 1.5% noble agar, without any other carbon sources or nutrients added. Plates were inoculated with 1.0 ml of sample or a log dilution of each water sample. Triplicate plates were inoculated with sample log dilutions of 10^{0}, 10^{-1}, and 10^{-2}. The hydrocarbon plates were poured on 8/6/98 and counted after 7 days on 8/13/98. The plate count data are reported as colony forming units (**cfu**) per milliliter (ml) of sample. Each bacteria population value represents a statistical average of the plate count data obtained with inoculations for two of the four log dilutions tested.

Vox 510·233·0102 Fax 510·233·3777 Email: Cyto@CytoCulture.com
249 Tewksbury Avenue Point Richmond California 94801·3829 USA

Hydrocarbon-Degrading Bacteria Enumeration Results

CLIENT SAMPLE NUMBER	SAMPLE DATE	HYDROCARBON DEGRADERS (cfu/ml)
MW-1	8/4/98	$<1.0 \times 10^1$
MW-2	8/4/98	1.9×10^1
MW-3	8/4/98	8.5×10^2
MW-4	8/4/98	1.8×10^4
MW-6	8/4/98	8.6×10^3
MW-7	8/4/98	1.5×10^3

1.0×10^1 cfu/ml is the lowest detection level for this assay.

Bacterial enumerations were performed by Dr. Sean P. Bushart. CytoCulture is available on a consulting basis to assist in the interpretation of these data and their application to field remediation protocols.

Sean P. Bushart, Ph.D.
Laboratory Services

Randall von Wedel, Ph.D.
Principal, Director of Research

c:\Cytolab\Lab Report\lab-SEQ 8/13/98

Chain-of-Custody

Chevron U.S.A. Inc.
P.O. BOX 5004
San Ramon, CA 94583
FAX (415)842-9591

98-08-168

Chevron Facility Number 206145
Facility Address 800 Center St., Oakland, CA
Consultant Project Number 980804-P2
Consultant Name Blaine Tech Services, Inc.
Address 1680 Rogers Ave., San Jose, CA 95112
Project Contact (Name) Fran Thie
(Phone) 408-573-0555 (Fax Number) 408-573-7771

Chevron Contact (Name) Phil Briggs
(Phone) (510) 842-9136
Laboratory Name Sequoia
Laboratory Release Number 9013363
Samples Collected by (Name) PAUL SAWMA
Collection Date 8-4-98
Signature

Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil A = Air W = Water C = Charcoal	Type G = Grab C = Composite D = Discrete	Time	Sample Preservation	Iced (Yes or No)	Analyses To Be Performed: BTEX + TPH GAS (8020 + 8015)	TPH Diesel (8015)	Oil and Grease (5520)	Purgeable Halocarbons (8010)	Purgeable Aromatics (8020)	Purgeable Organics (8240)	Extractable Organics (8270)	Metals Cd,Cr,Pb,Zn,Ni (ICAP or AA)	Contaminate Utilizing Bacteria				
MW-1		1	W		~~13:02~~ 13:02											X				
MW-2		1			12:13											X				
MW-3		1			13:17											X				
MW-4		1			12:43											X				
MW-6		1			13:36											X				
MW-7		1			12:55											X				

DO NOT BILL FOR TB-LB

Remarks

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
	Blaine	8/4/98 17:00		Sequoia	8/5/98 0913
Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
	Sequoia	8/5/98			
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature)		Date/Time
					080598 1249

Turn Around Time (Circle Choice)

24 Hrs.
48 Hrs.
5 Days
10 Days
As Contracted

SUB-CHAIN OF CUSTODY

SEQUOIA ANALYTICAL
680 CHESAPEAKE DRIVE
REDWOOD CITY, CA 94063
TEL415-364-9600 FAX415-364-9233

PROJECT SUBBED TO: Cytoculture

TAT REQUESTED: ☐ 24H ☐ 48H ☐ 72H ☐ 5D ☐ 10D

DUE DATE: 8/17/98

REPORT TO: M. Gresort

WORKORDER # 9808168

PROJECT NAME

FRACTION NUMBER	SAMPLE DESCRIPTION	MATRIX	NUMBER OF CONT	TYPE CONT	SAMPLING TIME/DATE	Contaminant utilizing bacteria	ANALYSIS REQUESTED	REMARKS
01	MW-1	L	1	VOA	8/4	Y		contaminant
02	-2	↓	↓	↓	↓	Y		utilizing
03	-3					Y		Bacteria
04	-4					Y		
05	-6					Y		
06	-7					Y		

RELINQUISHED FROM SEQUOIA BY: E C Manor DATE 8-5-98 TIME

RECEIVED BY: DATE 8/6 TIME 4:00

SAMPLE CONDITION?

RELINQUISHED BY: DATE TIME

RECEIVED BY: DATE TIME

TEMP?

RELINQUISHED BY: DATE TIME

RECEIVED BY: DATE TIME

Field
Data
Sheets

WELL GAUGING DATA

Project # 980804-P2 Date 8-4-98 Client Chevron

Site 800 Center St, Oakland

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					8.74	13.44		
MW-2	2					8.69	13.25		
MW-3	2					8.54	14.25		
MW-4	2					8.12	13.43		
MW-5	2	— Well Inaccessable —							
MW-6	2					7.84	19.65		
MW-7	2					9.04	18.30		

CHEVRON WELL MONITORING DATA SHEET

Project #: 980804-P2	Station #: S-880
Sampler: PAUL	Date: 8-4-98
Well I.D.: MW-1	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 13.44	Depth to Water: 8.74
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 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = 3 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
13:52	69.7	7.4	450	1	
13:55	69.4	7.2	400	2	
13:57	68.8	7.2	350	3	

Did well dewater? Yes (No)		Gallons actually evacuated: 3	
Sampling Time: 14:02		Sampling Date: 8-4-98	
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 #: 980804-P2	Station #: 5-800
Sampler: PAUL	Date: 8-4-98
Well I.D.: MW-2	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 13.25	Depth to Water: 8.69
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
- Middleburg
- Electric Submersible
- Extraction Pump
- Other: _____

Sampling Method:
- Bailer
- (✓) Disposable Bailer
- Extraction Port
- Other: _____

.75 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = 2.25 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
12:06	71.6	7.2	1000	.75	
12:08	70.4	7.1	900	1.5	
12:09	69.8	6.9	800	2.25	

Did well dewater? Yes (No)		Gallons actually evacuated: 2.25	
Sampling Time: 12:13		Sampling Date: 8-4-98	
Sample I.D.:		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 #: 980804-P2	Station #: S-800
Sampler: DAVE	Date: 8-4-98
Well I.D.: MW-3	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 14.25	Depth to Water: 8.54
Depth to Free Product: ~~14.25~~	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 Case Volume (Gals.)	X	3 Specified Volumes	=	3 Calculated Volume	Gals.

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
13:07	71.4	6.8	1300	1	odor
13:09	70.6	6.9	1200	2	" "
13:12	69.8	7.0	1100	3	" "

Did well dewater? Yes (No) Gallons actually evacuated: 3

Sampling Time: 13:17 Sampling Date: 8-4-98

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 #: 980804-P1	Station #: S-800
Sampler: PAUL	Date: 8-4-98
Well I.D.: MW-4	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 13.93	Depth to Water: 8.12
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^2 * 0.163

Purge Method:
- Bailer
- ✓ Disposable Bailer
- Middleburg
- Electric Submersible
- Extraction Pump
- Other: _____

Sampling Method:
- Bailer
- ✓ Disposable Bailer
- Extraction Port
- Other: _____

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

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
12:37	69.4	7.4	800	1	
12:39	69.2	7.4	800	2	
12:41	68.6	7.3	750	3	

Did well dewater? Yes (No)		Gallons actually evacuated: 3	
Sampling Time: 12:43		Sampling Date: 8-4-98	
Sample I.D.: MW-4		Laboratory: (Sequoia) GTEL	
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 #: 980804-P2	Station #: S-800
Sampler: PAUL	Date: 8-4-98
Well I.D.: MW-5	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth:	Depth to Water:
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: ___

Well x Inaccessible = Gals.
1 Case Volume (Gals.) | Specified Volumes | Calculated Volume

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations

Did well dewater? Yes No		Gallons actually evacuated:	
Sampling Time:		Sampling Date:	
Sample I.D.: MW-5		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 #: 980804-P2	Station #: S-800
Sampler: PAUL	Date: 8-4-98
Well I.D.: MW-6	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 19.65	Depth to Water: 7.84
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: ____

1.5 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = 4.5 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
13:28	68.4	7.0	800	1.5	
13:30	67.8	7.0	950	3.0	
13:32	67.2	6.9	700	4.5	

Did well dewater? Yes (No)		Gallons actually evacuated: 4.5	
Sampling Time: 13:36		Sampling Date: 8-4-98	
Sample I.D.: MW-6		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 #: 980804-02	Station #: S-800
Sampler: PAUL	Date: 8-4-98
Well I.D.: MW-7	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 18.30	Depth to Water: 9.04
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: _____

1.5 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = 4.5 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
12:46	72.6	7.0	450	1.5	
12:48	71.8	7.0	500	3.0	
12:50	70.2	6.9	650	4.5	

Did well dewater? Yes (No) Gallons actually evacuated: 4.5

Sampling Time: 12:55 Sampling Date: 8-4-98

Sample I.D.: MW-7 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

WELL GAUGING DATA

Project # 980716-P1 Date 7-16-98 Client Chevron

Site 800 Center St. 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					8.41	13.40		
MW-2	2					8.35	13.25		
MW-3	2					8.28	14.25		
MW-4	2					7.32	13.40		
MW-5	2					7.75	19.00		
MW-6	2					7.69	19.65		
MW-7	2					8.36	18.30		

CHEVRON WELL MONITORING DATA SHEET

Project #: 980716-P1	Station #: 5-800
Sampler: DHH	Date: 7-16-98
Well I.D.: MW-1	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 13.46	Depth to Water: 8.41
Depth to Free Product: 13.46	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	X	3	=	3	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
9:33	67.4	7.4	700	1	
9:35	66.8	7.2	600	2	
9:37	66.4	7.2	500	3	

Did well dewater? Yes (No) Gallons actually evacuated: 3

Sampling Time: 9:41 Sampling Date: 7-16-98

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 #: 980716-P1	Station #: 5-800
Sampler: PAUL	Date: 7-16-98
Well I.D.: MW-3	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 14.25	Depth to Water: 8.28
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 Case Volume (Gals.)	x	Specified Volumes	=	Calculated Volume
1.0	x	3	=	3.0 Gals.

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
8:56	68.4	6.9	1000	1	
9:58	67.6	7.0	1000	2	
9:00	67.4	7.0	1100	3	

Did well dewater? Yes (No)		Gallons actually evacuated: 3.0	
Sampling Time: 9:05		Sampling Date: 7-16-98	
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 #: 980716-P1	Station #: S-800
Sampler: DAVL	Date: 7-16-98
Well I.D.: MW-4	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 13.46	Depth to Water: 7.32
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^2 * 0.163

Purge Method:
- Bailer
- ✓ Disposable Bailer
- Middleburg
- Electric Submersible
- Extraction Pump
- Other: _____

Sampling Method:
- Bailer
- ✓ Disposable Bailer
- Extraction Port
- Other: _____

1 Case Volume (Gals.)	X	Specified Volumes	=	Calculated Volume
1.0	X	3	=	3.0 Gals.

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
8:09	66.4	7.4	700	1	clear
8:10	65.2	7.4	800	2	" "
8:12	64.7	7.3	800	3	" "

Did well dewater? Yes (No)		Gallons actually evacuated: 3	
Sampling Time: 8:15		Sampling Date: 7-16-98	
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	

CHEVRON WELL MONITORING DATA SHEET

Project #: 980716-P1	Station #: 5-800
Sampler: PAUL	Date: 7-16-98
Well I.D.: MW 5	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 19.10	Depth to Water: 7.75
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: _____

2 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = 6 Gals. (Calculated Volume)

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
8:35	65.8	7.1	1200	2	
8:38	65.2	7.0	1000	4	
8:40	64.6	7.0	1000	6	

Did well dewater? Yes (No)		Gallons actually evacuated: 6.0	
Sampling Time: 8:45		Sampling Date: 7-16-98	
Sample I.D.: MW-5		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 #: 980716-P1	Station #: ~~8-500~~ 5-800
Sampler: DHM	Date: 7-16-98
Well I.D.: MW-6	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 19.65	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
- Middleburg
- Electric Submersible
- Extraction Pump
- Other: _____

Sampling Method:
- Bailer
- ✓ Disposable Bailer
- Extraction Port
- Other: _____

2.0 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = 6.0 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
9:12	68.4	7.4	800	2	
9:15	67.2	7.4	900	4	
9:17	66.8	7.3	1000	6	

Did well dewater? Yes (No)		Gallons actually evacuated: 6	
Sampling Time: 9:22		Sampling Date: 7-16-98	
Sample I.D.: MW-6		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