

ENVIRONMENTAL  
PROTECTION  
98 NOV 31 PM 2:36



**Chevron**

November 23, 1998

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

Mr. Scott Seery  
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: Former Chevron Service Station #9-0329  
340 Highland Avenue  
Piedmont, California**

Dear Mr. Seery:

Enclosed is the Fourth Quarter Groundwater Monitoring report for 1998, prepared by our consultant Blaine Tech Services Inc. for the above noted facility. Ground water samples were analyzed for TPH-g, BTEX, and MtBE. Monitoring well C-5 is sampled annually (1<sup>st</sup> quarter), well C-4 semi-annually (1<sup>st</sup> & 3<sup>rd</sup> quarters), and wells C-2, C-3 and C-6 quarterly.

The concentrations detected in monitoring wells C-3 and C-6 were below method detection levels for all constituents. Well C-2 continues to detect concentrations of all constituents, with the benzene and MtBE concentrations decreasing from the previous sampling event.

The depth to the groundwater varied from 0.98 feet to 4.35 feet below grade with a direction of flow southerly.

As noted in previous correspondence, Chevron has not owned or operated this station since 1990 and has had no control over its operation or maintenance since that time. The MtBE that has been detected in the ground water could indicate the possibility of a recent leak or spill which Chevron would have no responsibility for.

A work plan has been submitted to evaluate the role utility alignments might play in contributing to contaminant dispersal from the site. As previously noted, Chevron has taken the lead of the other two listed responsible parties, in submitting the work plan even though we believe that we have no responsibility for the increase of the MtBE concentration that is being detected in the ground water. **A meeting was held in your office to clarify the locations of the proposed soil borings and a revised work plan is to be submitted within the next ten days.**

November 23, 1998  
Mr. Scott Seery  
Former Chevron Service Station #9-0329  
Page 2

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

Sincerely,  
**CHEVRON PRODUCTS COMPANY**



Philip R. Briggs  
Site Assessment and Remediation Project Manager

Enclosure

Cc. Mr. Chuck Headlee  
RWQCB-San Francisco Bay Region  
2101 Webster Street, Suite 500  
Oakland, CA 94612

Mr. Frank Hoffman  
Hoffman Investment Company  
1760 Willow Road  
Hillsborough, CA 94010

Mir Ghafari & Fred Manoucheri  
Service Station  
340 Highland Avenue  
Piedmont, CA 94611

Ms. Bette Owen, Chevron

Ms. Anne Payne, Chevron, ChvPkv/V-1156

**BLAINE**  
TECH SERVICES INC.

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



November 20, 1998

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

#### **4th Quarter 1998 Monitoring at 9-0329**

Fourth Quarter 1998 Groundwater Monitoring at  
Chevron Service Station Number 9-0329  
340 Highland Avenue  
Piedmont, CA

Monitoring Performed on October 2, 1998

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#### **Groundwater Sampling Report 981002-Z-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,



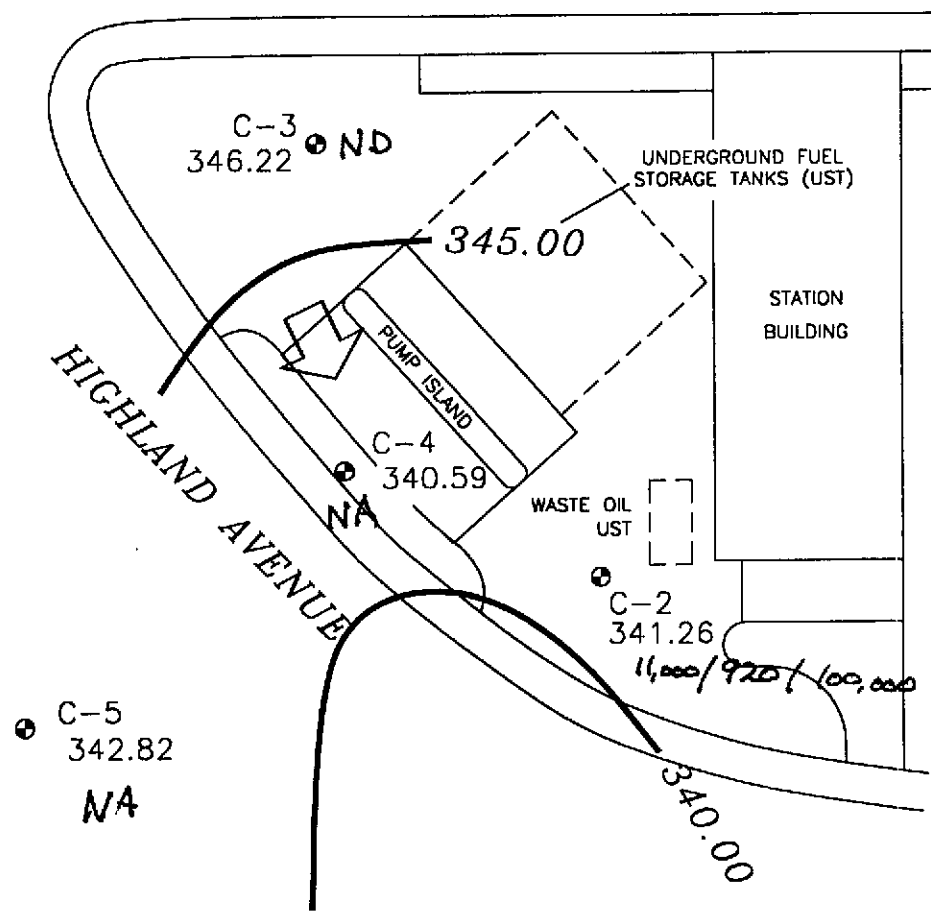
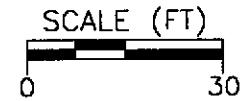
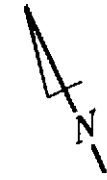
Francis Thie  
Vice President

FPT/dg

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

# **Professional Engineering Appendix**

HIGHLAND WAY



EXPLANATION

- MONITORING WELL
- 335.81 GROUNDWATER ELEVATION (FT, MSL)
- 340.00 — GROUNDWATER ELEVATION CONTOUR (FT, MSL)
- NA DATA NOT AVAILABLE
- ⇩ APPROXIMATE GROUNDWATER FLOW DIRECTION;  
APPROXIMATE GRADIENT = 0.06

TPK/Benzene/MCBE  
(ug/l)



● C-6 ND  
335.81

Basemap from Cambria Environmental Technology, Inc.

PREPARED BY

**Chevron Station 9-0329**  
340 Highland Avenue  
Piedmont, California

**GROUNDWATER ELEVATION CONTOUR MAP,**  
OCTOBER 2, 1998

FIGURE:  
1  
PROJECT:  
DAC04

## 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
<b>C-2</b>										
08/07/89	94.19	91.33	2.88	--	34,000	580	60	170	270	--
11/15/89	94.19	91.39	2.80	--	8100	500	36	420	180	--
02/01/91	94.19	90.41	3.75	--	6800	490	21	310	86	--
04/16/91	94.19	91.64	2.55	--	9600	810	43	550	270	--
10/16/91	94.19	90.67	3.52	--	7100	320	23	200	60	--
01/08/92	94.19	90.04	4.15	--	2400	190	9.0	83	22	--
04/10/92	94.19	91.23	2.96	--	6600	550	33	340	170	--
07/14/92	94.19	91.36	2.83	--	9000	680	330	580	690	--
10/05/92	94.19	89.81	4.38	--	5500	250	17	130	82	--
01/06/93	94.19	90.25	3.94	--	5500	190	32	41	54	--
03/29/93	94.19	92.10	2.09	--	19,000	670	40	180	370	--
07/02/93	94.19	92.10	2.09	--	8000	1100	41	420	500	--
10/11/93	94.19	91.43	2.76	--	42,000	940	34	140	87	--
01/10/94	94.19	89.37	4.82	--	12,000	770	20	220	74	--
04/06/94	94.19	91.70	2.49	--	40,000	820	33	190	110	--
07/06/94	94.19	91.72	2.47	--	8800	870	28	140	95	--
11/11/94	94.19	91.32	2.87	--	8600	460	81	180	120	--
01/06/95	94.19	91.64	2.55	--	15,000	880	48	270	140	--
04/13/95	94.19	92.13	2.06	--	56,000	2500	130	730	360	--
07/25/95	94.19	92.05	2.14	--	11,000	1000	34	540	160	--
10/05/95	94.19	91.68	2.51	--	13,000	1000	<20	160	170	--
01/02/96	94.19	91.97	2.22	--	9500	1300	<50	380	87	64,000
04/11/96	94.19	92.27	1.92	--	<10,000	1300	<100	<100	<100	74,000
07/08/96	94.19	92.14	2.05	--	<20,000	1200	<200	<200	<200	110,000
10/03/96	94.19	91.90	2.29	--	<25,000	1200	<250	<250	<250	140,000
01/23/97	343.39	341.49	1.90	--	20,000	1100	<200	460	<200	110,000
02/14/97	343.39	341.42	1.97	Confirmation run	--	--	--	--	--	150,000
04/08/97	343.39	341.12	2.27	--	<50,000	1100	<500	<500	<500	160,000
07/09/97	343.39	341.41	1.98	--	<50,000	1300	<500	<500	<500	210,000
10/08/97	343.39	341.09	2.30	--	18,000	1400	<50	300	95	160,000
01/22/98	343.39	341.71	1.68	--	10,000	860	10	140	37	70,000
04/15/98	343.39	342.19	1.20	--	<10,000	1400	<100	510	<100	46,000
07/09/98	343.39	341.92	1.47	--	33,000	1700	<50	650	<50	120,000
10/02/98	343.39	341.26	2.13	--	11,000	920	11	130	76	100,000

## 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
<b>C-4</b>										
08/07/89	95.60	--	--	Dry	--	--	--	--	--	Dry
11/15/89	95.60	90.65	4.95	--	1300	2.9	310	0.5	2.9	--
02/01/91	95.60	90.82	4.78	--	72	<0.5	9.0	<0.5	<0.5	--
04/16/91	95.60	95.60	4.83	--	<50	<0.5	<0.5	<0.5	<0.5	--
10/16/91	95.60	91.37	4.23	--	<50	<0.5	<0.5	<0.5	<0.5	--
01/08/92	95.60	90.79	4.81	--	<50	<0.5	<0.5	<0.5	<0.5	--
04/10/92	95.60	91.34	4.26	--	<50	<0.5	<0.5	<0.5	<0.5	--
07/14/92	95.60	91.32	4.28	--	<50	<0.5	3.8	<0.5	<0.5	--
10/05/92	95.60	91.31	4.29	--	<50	<0.5	<0.5	<0.5	<0.5	--
01/06/93	95.60	91.31	4.29	--	<50	0.7	<0.5	<0.5	<0.5	--
03/29/93	95.60	91.30	4.30	--	<50	0.5	1.0	<0.5	2.0	--
07/02/93	95.60	91.38	4.22	--	<50	<0.5	<0.5	<0.5	<0.5	--
10/11/93	95.60	91.30	4.30	--	<50	0.6	<0.5	<0.5	<0.5	--
01/10/94	95.60	91.16	4.44	--	<50	0.7	3.0	<0.5	1.0	--
04/06/94	95.60	91.36	4.24	--	130	2.2	5.4	3.3	24	--
07/06/94	95.60	91.36	4.24	--	99	5.9	7.5	2.0	12	--
11/11/94	95.60	91.39	4.21	--	<50	<0.5	9.5	<0.5	<0.5	--
01/06/95	95.60	91.18	4.42	--	<50	0.7	1.0	<0.5	1.1	--
04/13/95	95.60	91.36	4.24	--	67	0.54	7.2	<0.5	1.1	--
07/25/95	95.60	91.36	4.24	--	390	<2.0	150	<2.0	<2.0	--
10/05/95	95.60	91.22	4.38	--	130	<0.5	66	<0.5	<0.5	--
01/02/96	95.60	91.34	4.26	--	<50	<0.5	<0.5	<0.5	<0.5	34
04/11/96	95.60	91.21	4.39	--	<50	<0.5	0.93	<0.5	<0.5	56
07/08/96	95.60	91.32	4.28	--	<50	<0.5	<0.5	<0.5	<0.5	21
10/03/96	95.60	91.38	4.22	--	80	<0.5	31	<0.5	<0.5	9.9
01/23/97	344.94	340.55	4.39	--	<50	<0.5	<0.5	<0.5	<0.5	23
04/08/97	344.94	340.69	4.25	--	87	<0.5	3.6	<0.5	1.7	7.0
07/09/97	344.94	340.73	4.21	--	93	<0.5	32	<0.5	<0.5	26
10/08/97	344.94	340.60	4.34	--	<50	<0.5	0.63	<0.5	<0.5	12
01/22/98	344.94	340.68	4.26	--	<50	<0.5	4.3	<0.5	<0.5	10
04/15/98	344.94	343.93	1.01	Sampled biannually	--	--	--	--	--	--
07/09/98	344.94	340.69	4.25	--	<50	<0.5	<0.5	<0.5	<0.5	37
10/02/98	344.94	340.59	4.35	--	--	--	--	--	--	--



## 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
<b>C-5</b>										
11/25/96	--	--	3.30	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
01/23/97	345.14	343.69	1.45	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
04/08/97	345.14	342.82	2.32	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
07/09/97	345.14	342.84	2.30	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
10/08/97	345.14	342.14	3.00	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
01/22/98	345.14	344.14	1.00	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
04/15/98	345.14	341.89	3.25	Sampled annually	--	--	--	--	--	--
07/09/98	345.14	344.94	0.20	--	--	--	--	--	--	--
10/02/98	345.14	342.82	2.32	--	--	--	--	--	--	--
<b>C-6</b>										
11/25/96	--	--	2.13	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
01/23/97	338.61	--	0.00	Well flooded	<50	<0.5	<0.5	<0.5	<0.5	<2.5
04/08/97	338.61	--	0.00	Well flooded	<50	<0.5	<0.5	<0.5	<0.5	<2.5
07/09/97	338.61	335.84	2.77	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
10/08/97	338.61	337.17	1.44	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
01/22/98	338.61	337.07	1.54	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
04/15/98	338.61	337.31	1.30	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
07/09/98	338.61	338.61	0.00	Well flooded	<50	<0.5	<0.5	<0.5	<0.5	<2.5
10/02/98	338.61	335.81	2.80	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5
<b>Backfill Well: A</b>										
08/07/89	--	--	2.10	--	1000	50	6.0	5.0	22	--
11/15/89	--	--	2.04	--	3700	98	2.1	4.3	55	--
02/01/91	--	--	3.05	--	36,000	1100	750	130	6100	--
04/16/91	--	--	2.01	--	8000	370	6.0	86	750	--
10/16/91	--	--	4.15	--	--	--	--	--	--	--
<b>Backfill Well: B</b>										
08/07/89	--	--	4.12	--	--	--	--	--	--	--
11/15/89	--	--	--	--	--	--	--	--	--	--
02/01/91	--	--	5.03	--	--	--	--	--	--	--
04/16/91	--	--	4.00	--	--	--	--	--	--	--
10/16/91	--	--	6.24	--	--	--	--	--	--	--

## 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
<b>TRIP BLANK</b>										
01/06/93	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
03/29/93	--	--	--	--	<50	<0.5	<0.5	<0.5	1.0	--
07/02/93	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
10/11/93	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
01/10/94	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
04/06/94	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
07/06/94	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
11/11/94	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
01/06/95	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
04/13/95	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
07/25/95	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
10/05/95	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
01/02/96	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
04/11/96	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
07/08/96	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
10/03/96	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
01/23/97	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
04/08/97	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
07/09/97	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
10/08/97	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
01/22/98	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
07/09/98	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
10/02/98	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5

Note: Blaine Tech Services, Inc. began routine monitoring of the groundwater wells at this site on April 13, 1995.  
 Earlier field data and analytical results provided by Sierra Environmental.  
 Survey performed on March 20, 1997 by Ron Archer, Civil Engineer Inc.

**ABBREVIATIONS:**

TPH = Total Petroleum Hydrocarbons  
 MTBE = Methyl t-butyl ether

# Analytical Appendix




Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Chevron 9-0329/981002-Z1 Sample Descript: C-2 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9810373-01	Sampled: 10/02/98 Received: 10/05/98 Analyzed: 10/09/98 Reported: 10/13/98
Attention: Fran Thie		

**Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE**

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	1000	11000
Methyl t-Butyl Ether	5000	100000
Benzene	10	920
Toluene	10	11
Ethyl Benzene	10	130
Xylenes (Total)	30	76
Chromatogram Pattern:		GAS
<b>Surrogates</b>	<b>Control Limits %</b>	<b>% Recovery</b>
Trifluorotoluene	70 130	73

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

**SEQUOIA ANALYTICAL** - ELAP #1849

  
Mike Gregory  
Project Manager






Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112 Attention: Fran Thie	Client Proj. ID: Chevron 9-0329/981002-Z1 Sample Descript: C-3 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9810373-02	Sampled: 10/02/98 Received: 10/05/98 Analyzed: 10/09/98 Reported: 10/13/98
--	--	---

**Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE**

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)	1.5	N.D.
Chromatogram Pattern:		
<b>Surrogates</b>	<b>Control Limits %</b>	<b>% Recovery</b>
Trifluorotoluene	70                      130	80

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

**SEQUOIA ANALYTICAL** - ELAP #1849

  
\_\_\_\_\_  
Mike Gregory  
Project Manager





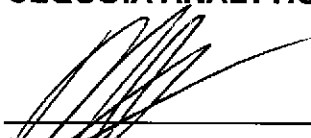
Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Chevron 9-0329/981002-Z1 Sample Descript: TB Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9810373-04	Sampled: 10/02/98 Received: 10/05/98 Analyzed: 10/09/98 Reported: 10/13/98
Attention: Fran Thie		

**Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE**

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:		
<b>Surrogates</b>	<b>Control Limits %</b>	<b>% Recovery</b>
Trifluorotoluene	70 130	87

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

**SEQUOIA ANALYTICAL** - ELAP #1849

  
\_\_\_\_\_  
Mike Gregory  
Project Manager





**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 FAX (650) 364-9233  
(925) 988-9600 FAX (925) 988-9673  
(916) 921-9600 FAX (916) 921-0100  
(707) 792-1865 FAX (707) 792-0342

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

Client Proj. ID: Chevron 9-0329/981002-Z1  
Lab Proj. ID: 9810373

Received: 10/05/98  
Reported: 10/13/98

### LABORATORY NARRATIVE

In order to properly interpret this report, it must be reproduced in its entirety. This report contains a total of 7 pages including the laboratory narrative, sample results, quality control, and related documents as required (cover page, COC, raw data, etc.).

**TPH-GAS/BTEX:**

Sample 9810373-01 was diluted 20-fold.

**SEQUOIA ANALYTICAL**

Mike Gregory  
Project Manager





# Sequoia Analytical

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

Client Project ID: Chevron 9-0329/981002-Z1  
Matrix: Liquid

Work Order #: 9810373 -01-04

Reported: Oct 15, 1998

## QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	10V8152	10V8152	10V8152	10V8152
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 8015M	EPA 8015M	EPA 8015M	EPA 8015M
Analyst:	L. Hall	L. Hall	L. Hall	L. Hall
LCS/LCSD #:	8100073	8100073	8100073	8100073
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	10/9/98	10/9/98	10/9/98	10/9/98
Analyzed Date:	10/9/98	10/9/98	10/9/98	10/9/98
Instrument I.D.#:	-	-	-	-
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L
Result:	19	19	19	58
LCS % Recovery:	95	95	95	97
Dup. Result:	19	20	20	59
LCSD % Recov.:	95	100	100	98
RPD:	0.0	5.1	5.1	1.7
RPD Limit:	0-30	0-30	0-30	0-30

MS/MSD	80-120	80-120	80-120	80-120
LCS				
Control Limits				

SEQUOIA ANALYTICAL  
Elap #1849

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

9810373.BLA <1>



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

**Chain-of-Custody-Record**

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

Chevron Facility Number 9-0329  
 Facility Address 340 Highland Ave., Piedmont, CA  
 Consultant Project Number 981002-21  
 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 9034836  
 Samples Collected by (Name) Steven  
 Collection Date 10-2-99  
 Signature [Signature]

Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil W = Water A = Air C = Charcoal	Type C = Grab C = Composite D = Discrete	Time	Sample Preservation	Iced (Yes or No)	Analytes To Be Performed										Remarks				
								BTEX + TPH GAS (8020 + 8015) <u>MPDE</u>	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)							
C-2	01	3	C	D	1045	HCL	Y	X														
C-3	02	3	↓	↓	1025	↓	↓	X														
C-4	03	3	↓	↓	1005	↓	↓	X														
TB	04	2	↓	↓	-	↓	↓	X														

9810373

DO NOT BILL FOR TB-LB.

10 4 12 53

Relinquished By (Signature) [Signature]  
 Relinquished By (Signature) [Signature]  
 Relinquished By (Signature) [Signature]

Organization BTS  
 Organization Sequoia  
 Organization \_\_\_\_\_

Date/Time 10/1/98  
 Date/Time 10/5  
 Date/Time \_\_\_\_\_

Received By (Signature) [Signature]  
 Received By (Signature) [Signature]  
 Received For Laboratory By (Signature) [Signature]

Organization Sequoia  
 Organization \_\_\_\_\_  
 Organization \_\_\_\_\_

Date/Time 10-5 10:40  
 Date/Time \_\_\_\_\_  
 Date/Time 100596 1253

Turn Around Time (Circle Choice)  
 24 Hrs.  
 48 Hrs.  
 5 Days  
 10 Days  
As Contracted

10/3 91/HCH



# CHEVRON WELL MONITORING DATA SHEET

Project #: 981002-21	Station #: 9-0329
Sampler: SR	Date: 10-2-98
Well I.D.: C-2	Well Diameter: (2) 3 4 6 8
Total Well Depth: 14.80	Depth to Water: 2.13
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      Sampling Method: Bailer  
 Disposable Bailer       Disposable Bailer   
 Middleburg      Extraction Port  
 Electric Submersible      Other: \_\_\_\_\_  
 Extraction Pump

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

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
1034	73.4	7.5	1100	2	- odor, turbid, shee
1037	72.4	7.6	1100	4	
1040	72.2	7.6	1000	6	

Did well dewater? Yes  No  Gallons actually evacuated: 6

Sampling Time: 1045      Sampling Date: 10-2-98

Sample I.D.: C-2      Laboratory: Sequoia GTEL N. Creek

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

# CHEVRON WELL MONITORING DATA SHEET

2

Project #: 981002-21	Station #: 9-0329
Sampler: JR	Date: 10-2-98
Well I.D.: C-3	Well Diameter: <u>2</u> 3 4 6 8
Total Well Depth: 14.21	Depth to Water: 0.98
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> 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      Sampling Method: Bailer

Disposable Bailer       Disposable Bailer

Middleburg      Extraction Port

Electric Submersible      Other: \_\_\_\_\_

Extraction Pump

Other: \_\_\_\_\_

<u>2.1</u>	x	<u>3</u>	=	<u>6.3</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
1015	75.6	7.6	800	2.5	-brown, turbid, silty
1018	75.4	7.7	800	5	
1021	75.0	7.7	750	7.5	

Did well dewater?    Yes    No    Gallons actually evacuated: 7.5

Sampling Time: 1025    Sampling Date: 10-2-98

Sample I.D.: C-3    Laboratory: Sequetra 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