

**BLAINE**  
TECH SERVICES INC.



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SAN JOSE, CALIFORNIA 95112  
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99 MAR 10 PM 3:10  
ENVIRONMENTAL  
PROTECTION

March 2, 1999

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

### 1st Quarter 1999 Monitoring at 9-0329

First Quarter 1999 Groundwater Monitoring at  
Chevron Service Station Number 9-0329  
340 Highland Ave.  
Piedmont, CA

Monitoring Performed on January 18, 1999

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#### Groundwater Sampling Report 990118-J-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,



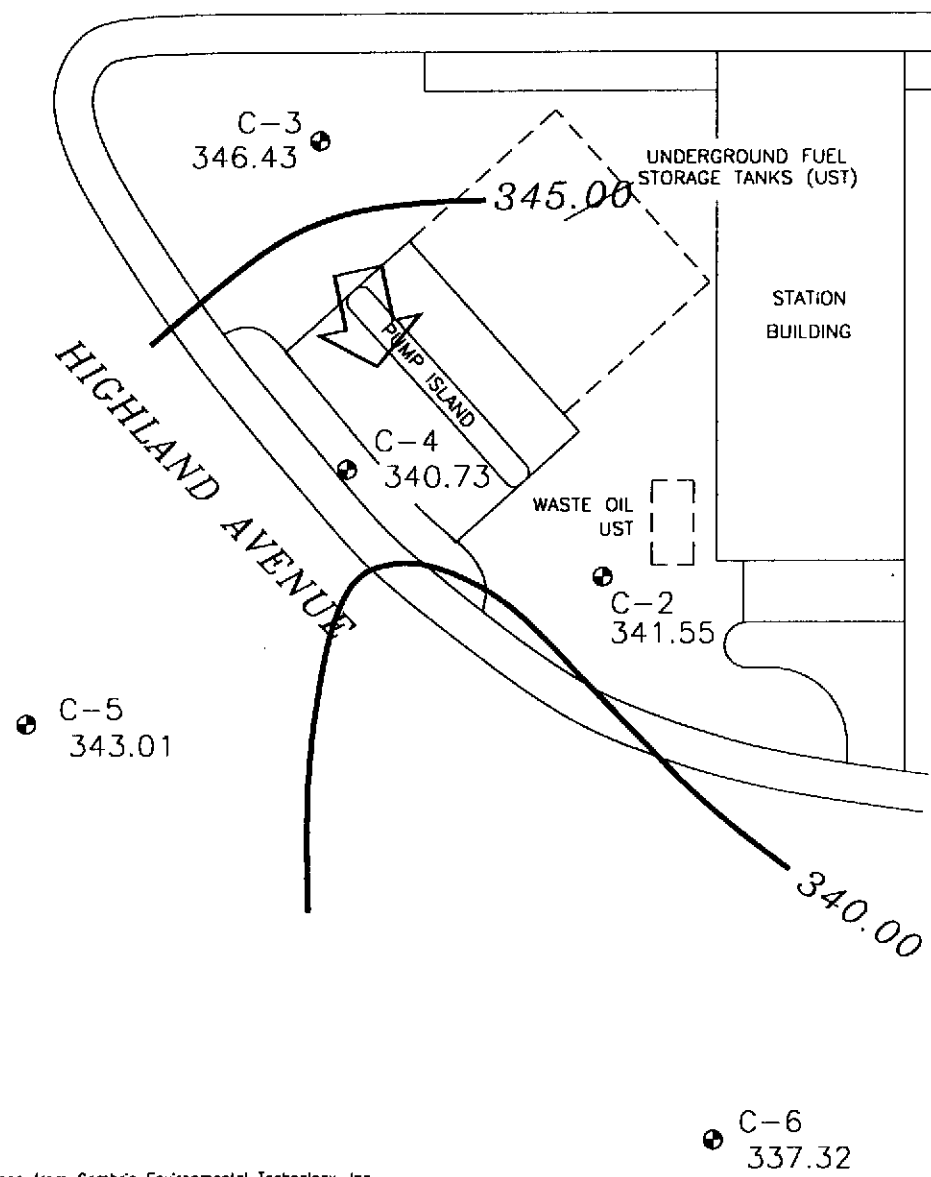
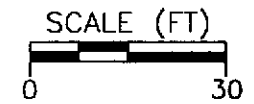
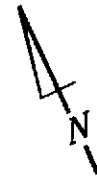
Christine Lillie  
Project Coordinator

FPT/sb

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
- 337.32 GROUNDWATER ELEVATION (FT, MSL)
- GROUNDWATER ELEVATION CONTOUR (FT, MSL)
- ↓ APPROXIMATE GROUNDWATER FLOW DIRECTION; APPROXIMATE GRADIENT = 0.05

*TPH-G / benzene / MTBE  
(ug/l)*



Bosemap from Cambria Environmental Technology, Inc.

PREPARED BY

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

**GROUNDWATER ELEVATION CONTOUR MAP,**  
**JANUARY 18, 1999**

**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
<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
01/18/99	343.39	341.55	1.84	--	<25,000	1770	<250	<250	<250	48,400
01/18/99	343.39	341.55	1.84	Confirmation run	--	--	--	--	--	78,300

## 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-3</b>										
08/07/89	97.65	93.36	4.29	--	<50	<0.5	<1.0	<1.0	<3.0	--
11/15/89	97.65	92.48	5.17	--	<500	<0.5	2.8	<0.5	1.1	--
02/01/91	97.65	91.27	6.38	--	<50	<0.5	<0.5	<0.5	<0.5	--
04/16/91	97.65	93.93	3.72	--	<50	<0.5	<0.5	<0.5	<0.5	--
10/16/91	97.65	89.45	8.20	--	<50	<0.5	<0.5	<0.5	<0.5	--
01/08/92	97.65	90.97	6.68	--	<50	<0.5	<0.5	<0.5	<0.5	--
04/10/92	97.65	93.15	4.50	--	<50	<0.5	<0.5	<0.5	<0.5	--
07/14/92	97.65	91.44	6.21	--	<50	<0.5	<0.5	<0.5	<0.5	--
10/05/92	97.65	88.34	9.31	--	<50	<0.5	<0.5	<0.5	<0.5	--
01/06/93	97.65	94.24	3.41	--	<50	<0.5	<0.5	<0.5	<0.5	--
03/29/93	97.65	97.15	0.50	--	<50	<0.5	<0.5	<0.5	0.8	--
07/02/93	97.65	95.06	2.59	--	<50	4.0	3.0	<0.5	3.0	--
10/11/93	97.65	92.75	4.90	--	<50	<0.5	<0.5	<0.5	<0.5	--
01/10/94	97.65	93.26	4.39	--	<50	<0.5	1.0	<0.5	0.8	--
04/06/94	97.65	94.97	2.68	--	<50	<0.5	1.0	0.7	4.5	--
07/06/94	97.65	95.55	2.10	--	<50	2.2	4.1	<0.5	2.8	--
11/11/94	97.65	96.42	1.23	--	<50	<0.5	0.8	<0.5	<0.5	--
01/06/95	97.65	97.05	0.60	--	<50	<0.5	<0.5	<0.5	<0.5	--
04/13/95	97.65	97.05	0.60	--	<50	<0.5	<0.5	<0.5	<0.5	--
07/25/95	97.65	96.00	1.65	--	<50	<0.5	<0.5	<0.5	<0.5	--
10/05/95	97.65	94.02	3.63	--	<50	<0.5	<0.5	<0.5	<0.5	--
01/02/96	97.65	94.53	3.12	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
04/11/96	97.65	96.83	0.82	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
07/08/96	97.65	96.15	1.50	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
10/03/96	97.65	95.17	2.48	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
01/23/97	347.08	346.87	0.21	--	<50	<0.5	<0.5	<0.5	<0.5	3.2
04/08/97	347.08	346.33	0.75	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
07/09/97	347.08	345.61	1.47	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
10/08/97	347.08	345.04	2.04	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
01/22/98	347.08	347.08	0.00	Well flooded	<50	<0.5	<0.5	<0.5	<0.5	40
04/15/98	347.08	347.08	0.00	Well flooded	<50	<0.5	<0.5	<0.5	<0.5	<2.5
05/13/98	347.20*	--	--	--	--	--	--	--	--	--
07/09/98	347.20	346.73	0.47	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
10/02/98	347.20	346.22	0.98	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5
01/18/99	347.20	346.43	0.77	--	<50	<0.5	<0.5	<0.5	<1.5	<2.0

\* Well head elevation adjusted due to broken top of casing.

## 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	--	--	--	--	--	--	--
01/18/99	344.94	340.73	4.21	--	<50	<0.5	<0.5	<0.5	<0.5	25.4



## 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	--	--	--	--	--	--	--
01/18/99	345.14	343.01	2.13	--	<50	<0.5	<0.5	<0.5	<0.5	<2.0
<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
01/18/99	338.61	337.32	1.29	--	<50	<0.5	<0.5	<0.5	<0.5	<2.0
<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	--	--	--	--	--	--	--

# Analytical Appendix



Sequoia  
Analytical

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

Redwood City, CA 94063  
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Petaluma, CA 94954

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FAX (707) 792-0342

February 1, 1999

Christine Lillie  
Blaine Tech/Chevron  
1680 Rogers Ave.  
San Jose, CA 95112

RE: Chevron/P901314

Dear Christine Lillie

Enclosed are the results of analyses for sample(s) received by the laboratory on January 20, 1999. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Matt Sakai  
Project Manager

CA ELAP Certificate Number 2245





# Sequoia Analytical

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819 Striker Avenue, Suite 8  
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Blaine Tech/Chevron  
1680 Rogers Ave.  
San Jose, CA 95112

Project: Chevron  
Project Number: 9-0329/990118-J1  
Project Manager: Christine Lillie

Sampled: 1/18/99  
Received: 1/20/99  
Reported: 2/1/99

## ANALYTICAL REPORT FOR P901314

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
C-2	P901314-01	Water	1/18/99
C-3	P901314-02	Water	1/18/99
C-4	P901314-03	Water	1/18/99
C-5	P901314-04	Water	1/18/99
C-6	P901314-05	Water	1/18/99
TB	P901314-06	Water	1/18/99





Blaine Tech/Chevron 1680 Rogers Ave. San Jose, CA 95112	Project: Chevron Project Number: 9-0329/990118-J1 Project Manager: Christine Lillie	Sampled: 1/18/99 Received: 1/20/99 Reported: 2/1/99
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**Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M  
Sequoia Analytical - Petaluma**

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
<b>C-2</b>				<b><u>P901314-01</u></b>		<b><u>Water</u></b>		
Gasoline	9010481	1/27/99	1/27/99		25000	ND	ug/l	
Benzene	"	"	"		250	1770	"	
Toluene	"	"	"		250	ND	"	
Ethylbenzene	"	"	"		250	ND	"	
Xylenes (total)	"	"	"		250	ND	"	
Methyl tert-butyl ether	"	"	"		1000	48400	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	65.0-135		109	%	
Surrogate: 4-Bromofluorobenzene	"	"	"	65.0-135		110	"	
<b>C-3</b>				<b><u>P901314-02</u></b>		<b><u>Water</u></b>		
Gasoline	9010481	1/27/99	1/27/99		50.0	ND	ug/l	
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Methyl tert-butyl ether	"	"	"		2.00	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	65.0-135		93.7	%	
Surrogate: 4-Bromofluorobenzene	"	"	"	65.0-135		105	"	
<b>C-4</b>				<b><u>P901314-03</u></b>		<b><u>Water</u></b>		
Gasoline	9010481	1/27/99	1/27/99		50.0	ND	ug/l	
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Methyl tert-butyl ether	"	"	"		2.00	25.4	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	65.0-135		99.3	%	
Surrogate: 4-Bromofluorobenzene	"	"	"	65.0-135		108	"	
<b>C-5</b>				<b><u>P901314-04</u></b>		<b><u>Water</u></b>		
Gasoline	9010481	1/27/99	1/27/99		50.0	ND	ug/l	
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Methyl tert-butyl ether	"	"	"		2.00	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	65.0-135		101	%	
Surrogate: 4-Bromofluorobenzene	"	"	"	65.0-135		111	"	
<b>C-6</b>				<b><u>P901314-05</u></b>		<b><u>Water</u></b>		
Gasoline	9010481	1/27/99	1/27/99		50.0	ND	ug/l	





Blaine Tech/Chevron 1680 Rogers Ave. San Jose, CA 95112	Project: Chevron Project Number: 9-0329/990118-J1 Project Manager: Christine Lillie	Sampled: 1/18/99 Received: 1/20/99 Reported: 2/1/99
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**Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M  
Sequoia Analytical - Petaluma**

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
<b>C-6 (continued)</b>			<b>P901314-05</b>				<b>Water</b>	
Benzene	9010481	1/27/99	1/27/99		0.500	ND	ug/l	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Methyl tert-butyl ether	"	"	"		2.00	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	65.0-135		99.3	%	
Surrogate: 4-Bromofluorobenzene	"	"	"	65.0-135		109	"	
<b>TB</b>			<b>P901314-06</b>				<b>Water</b>	
Gasoline	9010481	1/27/99	1/27/99		50.0	ND	ug/l	
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Methyl tert-butyl ether	"	"	"		2.00	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	65.0-135		114	%	
Surrogate: 4-Bromofluorobenzene	"	"	"	65.0-135		110	"	





Blaine Tech/Chevron 1680 Rogers Ave. San Jose, CA 95112	Project: Chevron Project Number: 9-0329/990118-J1 Project Manager: Christine Lillie	Sampled: 1/18/99 Received: 1/20/99 Reported: 2/1/99
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**Volatile Organic Compounds by EPA Method 8260B  
Sequoia Analytical - Petaluma**

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
<u>C-2</u>				<u>P901314-01</u>				
<u>Methyl tert-butyl ether</u>	9010474	1/28/99	1/28/99		1250	<b>78300</b>	ug/l	
<i>Surrogate: Dibromofluoromethane</i>	"	"	"	86.0-118		101	%	





Blaine Tech/Chevron 1680 Rogers Ave. San Jose, CA 95112	Project: Chevron Project Number: 9-0329/990118-J1 Project Manager: Christine Lillie	Sampled: 1/18/99 Received: 1/20/99 Reported: 2/1/99
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**Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M/Quality Control  
Sequoia Analytical - Petaluma**

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
<b>Batch: 9010481</b>			<b>Date Prepared: 1/27/99</b>			<b>Extraction Method: EPA 5030 waters</b>				
<b>Blank</b>			<b>9010481-BLK1</b>							
Gasoline	1/27/99			ND	ug/l	50.0				
Benzene	"			ND	"	0.500				
Toluene	"			ND	"	0.500				
Ethylbenzene	"			ND	"	0.500				
Xylenes (total)	"			ND	"	0.500				
Methyl tert-butyl ether	"			ND	"	2.00				
Surrogate: a,a,a-Trifluorotoluene	"	300		316	"	65.0-135	105			
Surrogate: 4-Bromofluorobenzene	"	300		319	"	65.0-135	106			
<b>Blank</b>			<b>9010481-BLK2</b>							
Gasoline	1/28/99			ND	ug/l	50.0				
Benzene	"			ND	"	0.500				
Toluene	"			ND	"	0.500				
Ethylbenzene	"			ND	"	0.500				
Xylenes (total)	"			ND	"	0.500				
Methyl tert-butyl ether	"			ND	"	2.00				
Surrogate: a,a,a-Trifluorotoluene	"	300		300	"	65.0-135	100			
Surrogate: 4-Bromofluorobenzene	"	300		301	"	65.0-135	100			
<b>LCS</b>			<b>9010481-BS1</b>							
Benzene	1/27/99	100		95.0	ug/l	65.0-135	95.0			
Toluene	"	100		93.9	"	65.0-135	93.9			
Ethylbenzene	"	100		87.4	"	65.0-135	87.4			
Xylenes (total)	"	300		277	"	65.0-135	92.3			
Methyl tert-butyl ether	"	100		95.5	"	65.0-135	95.5			
Surrogate: a,a,a-Trifluorotoluene	"	300		301	"	65.0-135	100			
<b>LCS</b>			<b>9010481-BS2</b>							
Gasoline	1/28/99	1000		1090	ug/l	65.0-135	109			
Surrogate: 4-Bromofluorobenzene	"	300		305	"	65.0-135	102			
<b>Matrix Spike</b>			<b>9010481-MS1</b>		<b>P901313-01</b>					
Benzene	1/27/99	100	ND	94.4	ug/l	65.0-135	94.4			
Toluene	"	100	ND	93.6	"	65.0-135	93.6			
Ethylbenzene	"	100	ND	87.5	"	65.0-135	87.5			
Xylenes (total)	"	300	0.531	278	"	65.0-135	92.5			
Methyl tert-butyl ether	"	100	ND	93.7	"	65.0-135	93.7			
Surrogate: a,a,a-Trifluorotoluene	"	300		285	"	65.0-135	95.0			







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Blaine Tech/Chevron 1680 Rogers Ave. San Jose, CA 95112	Project: Chevron Project Number: 9-0329/990118-J1 Project Manager: Christine Lillie	Sampled: 1/18/99 Received: 1/20/99 Reported: 2/1/99
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## Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M/Quality Control Sequoia Analytical - Petaluma

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
<b>Matrix Spike Dup</b>	<b>9010481-MSD1</b>	<b>P901313-01</b>								
Benzene	1/27/99	100	ND	89.5	ug/l	65.0-135	89.5	20.0	5.33	
Toluene	"	100	ND	88.7	"	65.0-135	88.7	20.0	5.38	
Ethylbenzene	"	100	ND	83.0	"	65.0-135	83.0	20.0	5.28	
Xylenes (total)	"	300	0.531	263	"	65.0-135	87.5	20.0	5.56	
Methyl tert-butyl ether	"	100	ND	91.4	"	65.0-135	91.4	20.0	2.49	
Surrogate: a,a,a-Trifluorotoluene	"	300		280	"	65.0-135	93.3			





Blaine Tech/Chevron 1680 Rogers Ave. San Jose, CA 95112	Project: Chevron Project Number: 9-0329/990118-J1 Project Manager: Christine Lillie	Sampled: 1/18/99 Received: 1/20/99 Reported: 2/1/99
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**Volatile Organic Compounds by EPA Method 8260B/Quality Control  
Sequoia Analytical - Petaluma**

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
<b>Batch: 9010474</b>			<b>Date Prepared: 1/26/99</b>			<b>Extraction Method: EPA 5030 waters</b>				
<b>Blank</b>			<b>9010474-BLK1</b>							
Methyl tert-butyl ether	1/26/99			ND	ug/l	0.500				
Surrogate: Dibromofluoromethane	"	5.00		4.77	"	86.0-118	95.4			
<b>Blank</b>			<b>9010474-BLK3</b>							
Methyl tert-butyl ether	1/28/99			ND	ug/l	0.500				
Surrogate: Dibromofluoromethane	"	5.00		4.78	"	86.0-118	95.6			
<b>LCS</b>			<b>9010474-BS1</b>							
Methyl tert-butyl ether	1/26/99	5.00		4.25	ug/l	70.0-130	85.0			
Surrogate: Dibromofluoromethane	"	5.00		4.68	"	86.0-118	93.6			
<b>LCS</b>			<b>9010474-BS3</b>							
Methyl tert-butyl ether	1/28/99	5.00		4.56	ug/l	70.0-130	91.2			
Surrogate: Dibromofluoromethane	"	5.00		4.63	"	86.0-118	92.6			
<b>Matrix Spike</b>			<b>9010474-MS1 P901277-06</b>							
Methyl tert-butyl ether	1/26/99	10.0	43.6	63.9	ug/l	70.0-130	203			1
Surrogate: Dibromofluoromethane	"	5.00		5.16	"	86.0-118	103			
<b>Matrix Spike Dup</b>			<b>9010474-MSD1 P901277-06</b>							
Methyl tert-butyl ether	1/26/99	10.0	43.6	61.9	ug/l	70.0-130	183	15.0	10.4	1
Surrogate: Dibromofluoromethane	"	5.00		4.90	"	86.0-118	98.0			





Blaine Tech/Chevron 1680 Rogers Ave. San Jose, CA 95112	Project: Chevron Project Number: 9-0329/990118-J1 Project Manager: Christine Lillie	Sampled: 1/18/99 Received: 1/20/99 Reported: 2/1/99
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**Notes and Definitions**

#	Note
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- 1 The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- Recov. Recovery
- RPD Relative Percent Difference





# **Field Data Sheets**



# CHEVRON WELL MONITORING DATA SHEET

Project #: 990118-51	Station #: 9-0329
Sampler: Stw	Date: 1/18/99
Well I.D.: C-2	Well Diameter: 2 3 4 6 8
Total Well Depth: 14.78	Depth to Water: 1.84
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	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: \_\_\_\_\_

2.1	x	3	=	6.3	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
9 <sup>08</sup>	59.2	6.7	970	2.5	
9 <sup>12</sup>	59.9	6.8	940	4.5	
9 <sup>16</sup>	60.2	6.8	940	6.5	

Did well dewater? Yes  No  Gallons actually evacuated: 6.5

Sampling Time: 9<sup>20</sup>      Sampling Date: 1/18/99

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

Analyzed for: TPH-G  BTEX  MTBE  TPH-D      Other: \_\_\_\_\_

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

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

## CHEVRON WELL MONITORING DATA SHEET

Project #: 990118-51	Station #: 9-0329
Sampler: Stwe	Date: 1/18/99
Well I.D.: C-3	Well Diameter: (2) 3 4 6 8
Total Well Depth: 14.21	Depth to Water: ,77
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 <input checked="" type="checkbox"/> Middleburg Electric Submersible Extraction Pump Other: _____	Sampling Method: Bailer Disposable Bailer <input checked="" type="checkbox"/> Extraction Port Other: _____
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2.2	X	3	=	6.6	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
8 <sup>29</sup>	59.8	7.2	780	2.5	
8 <sup>32</sup>	60.9	7.1	760	5.0	
8 <sup>35</sup>	60.8	7.1	750	7.0	

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Gallons actually evacuated: 7.0
Sampling Time: 8 <sup>40</sup>	Sampling Date: 1/18/99
Sample I.D.: C-3	Laboratory: (Sequoia) CORE 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: <span style="float: right;">mg/L</span> Post-purge: <span style="float: right;">mg/L</span>
O.R.P. (if req'd):	Pre-purge: <span style="float: right;">mV</span> Post-purge: <span style="float: right;">mV</span>



# CHEVRON WELL MONITORING DATA SHEET

Project #: 990118-51	Station #: 9-0329
Sampler: SMC	Date: 1/18/99
Well I.D.: C-4	Well Diameter: <u>3</u> 3 4 6 8
Total Well Depth: 10.09	Depth to Water: 4.21
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: \_\_\_\_\_

.90	x	3	=	2.7	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
8 <sup>49</sup>	59.7	6.7	480	1.0	
8 <sup>51</sup>	60.9	6.8	460	2.0	
8 <sup>53</sup>	61.0	6.8	460	3.0	

Did well dewater?    Yes    No    Gallons actually evacuated: 3.0

Sampling Time: 8<sup>58</sup>    Sampling Date: 1/18/99

Sample I.D.: C-4    Laboratory: Sequia 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 #: 990118-51	Station #: 9-0329
Sampler: Stw	Date: 1/18/99
Well I.D.: C-5	Well Diameter: (2) 3 4 6 8
Total Well Depth: 17.52	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 Disposable Bailer ( Middleburg Electric Submersible Extraction Pump Other: _____	Sampling Method: Bailer Disposable Bailer ( Extraction Port Other: _____
---	--

2.5	x	3	=	7.5	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
751	58.2	7.0	740	2.5	
754	59.1	7.1	720	5.0	
<del>756</del>	59.3	7.1	720	7.5	
				-	

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Gallons actually evacuated: 7.5
Sampling Time: <del>8:00</del> 8:01	Sampling Date: 1/18/99
Sample I.D.: C-5	Laboratory: (Sequoia) CORE 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: <span style="float: right;">mg/L</span> Post-purge: <span style="float: right;">mg/L</span>
O.R.P. (if req'd):	Pre-purge: <span style="float: right;">mV</span> Post-purge: <span style="float: right;">mV</span>

## CHEVRON WELL MONITORING DATA SHEET

Project #: 990118-51	Station #: 9-0329
Sampler: STWC	Date: 1/18/99
Well I.D.: C-6	Well Diameter: ② 3 4 6 8
Total Well Depth: 17.31	Depth to Water: 1.29
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 Disposable Bailer <input checked="" type="checkbox"/> Middleburg Electric Submersible Extraction Pump Other: _____	Sampling Method: Bailer Disposable Bailer <input checked="" type="checkbox"/> Extraction Port Other: _____
--	---

2.6	x	3	=	7.8	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
809	59.4	7.2	610	3.0	
812	60.9	7.3	600	5.5	
815	61.2	7.1	580	8.0	

Did well dewater? Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	Gallons actually evacuated: 8.0
Sampling Time: 819	Sampling Date: 1/18/99
Sample I.D.: C-6	Laboratory: <u>Sequoia</u> CORE N. Creek Assoc. Labs
Analyzed for: <u>TPH-G</u> <u>BTEX</u> <u>MTBE</u> TPH-D Other:	
Duplicate I.D.:	Analyzed for: TPH-G BTEX MTBE TPH-D Other:
D.O. (if req'd):	Pre-purge: <input type="text"/> mg/L Post-purge: <input type="text"/> mg/L
O.R.P. (if req'd):	Pre-purge: <input type="text"/> mV Post-purge: <input type="text"/> mV