



Chevron

Chevron U.S.A. Products Company
6001 Bollinger Canyon Rd. Bldg. L
P. O. Box 6004
San Ramon, CA 94583-0804

Site Assessment and
Remediation Group
Phone (510) 842-9500
Fax (510) 842-3370

Date: 1-21-00
To: Distribution
Re: Groundwater Monitoring Report, 9-4612

#4249

The enclosed groundwater monitoring report has been properly reviewed by a Chevron authorized representative. Agency guidelines have been followed. Blaine Tech Services is authorized to distribute the report directly to interested parties.

If you have any questions, please call me at (510) 842-8695.

Sincerely,

Brett Hunter
Site Assessment and Remediation
Project Manager

ENVIRONMENTAL
PROTECTION
00 FEB -3 PM 3:17

BLAINE
TECH SERVICES, INC.



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

January 21, 2000

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

4th Quarter 1999 Monitoring at 9-4612

Fourth Quarter 1999 Groundwater Monitoring at
Chevron Service Station Number 9-4612
3616 San Leandro St.
Oakland, CA

Monitoring Performed on November 24, 1999

Groundwater Sampling Report 991124-Y-2

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

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

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


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

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

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

Please call if you have any questions.

Yours truly,



Scott Boor
Project Coordinator

SDB/jh

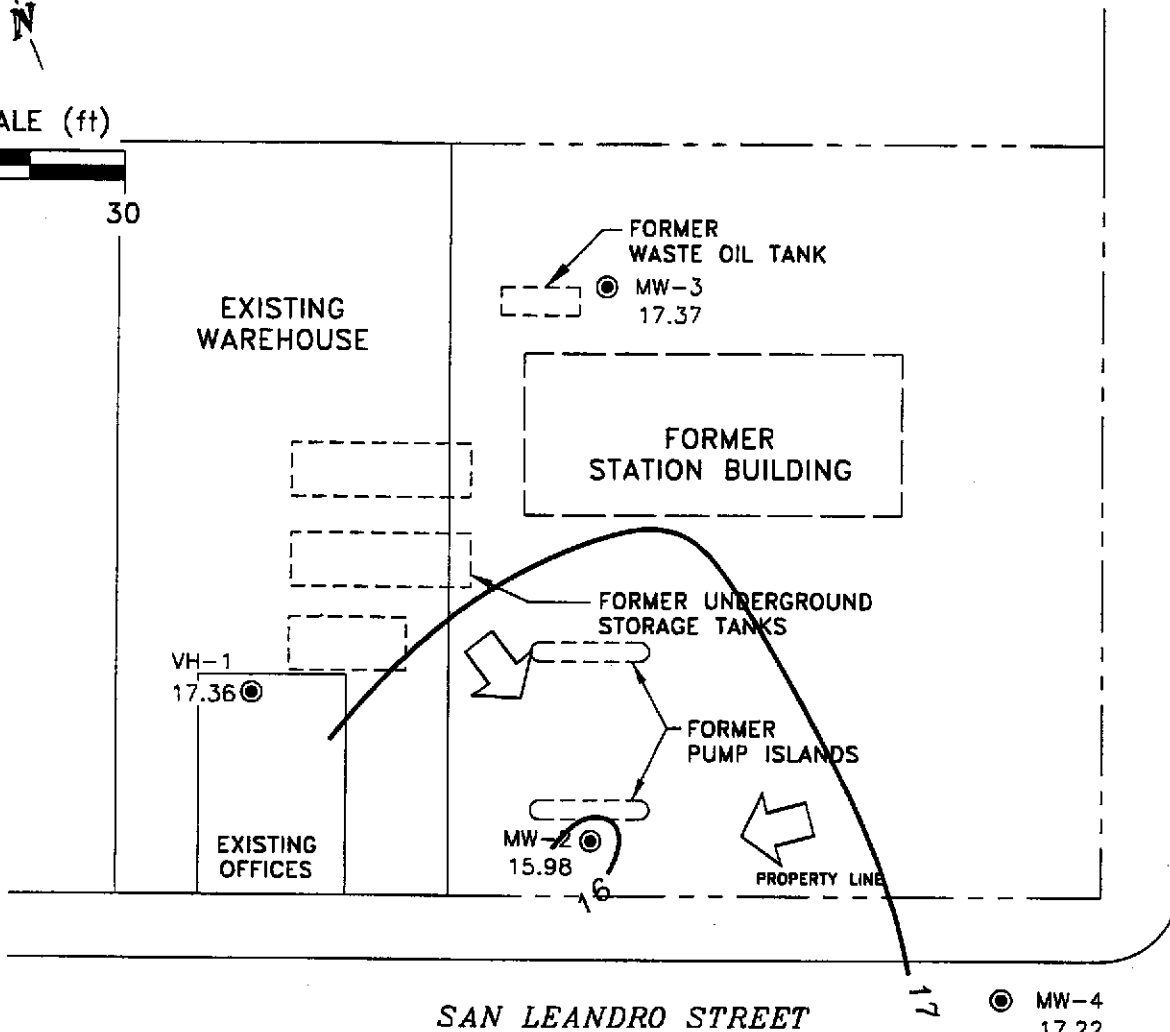
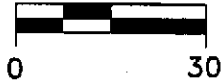
attachments: Professional Engineering Appendix
Cumulative Table of Well Data and Analytical Results
Analytical Appendix
Field Data Sheets

cc: **Barney Chan, Alameda County Health Care Services**
Jack Ratto
Terry McIlraith
Greg Gurss, Gettler-Ryan, Inc.,
Bette Owen, Chevron Products Company (w/o enclosure)

Professional Engineering Appendix



SCALE (ft)



EXPLANATION

- MONITORING WELL
- 15.98 GROUNDWATER ELEVATION (FT, MSL)
- 17 — GROUNDWATER ELEVATION CONTOUR (FT, MSL)
- ↘ APPROXIMATE GROUNDWATER FLOW DIRECTION;
APPROXIMATE GRADIENT = 0.02



Base map from Cambrio Environmental Technology, Inc.

PREPARED BY

RRM
engineering contracting firm

Chevron Station 9-4612
3616 San Leandro Street
Oakland, California

**GROUNDWATER ELEVATION CONTOUR MAP,
NOVEMBER 24, 1999**

FIGURE:
7
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	TPH- Diesel	TOG	HVOC	MTBE	MTBE by 8260
VH-1														
08/10/88	--	--	13.00	--	11,000	3300	200	520	540	--	--	--	--	--
06/01/89	--	--	10.32	--	15,000	2200	120	540	310	--	--	--	--	--
09/15/89	--	--	15.69	--	5600	1900	90	350	160	--	--	--	--	--
12/08/89	--	--	14.77	--	11,000	1900	69	270	99	--	--	--	--	--
03/07/91	--	--	11.26	--	4500	820	39	120	77	--	--	--	--	--
09/24/91	--	--	12.98	--	3300	520	19	39	27	--	--	--	--	--
01/08/92	--	--	13.77	--	5000	600	34	81	76	--	--	--	--	--
04/20/92	--	--	8.18	--	7400	670	60	110	140	--	--	--	--	--
03/26/93	27.85	21.14	6.71	--	4900	600	40	72	94	--	--	--	--	--
05/27/93	27.85	19.27	8.58	--	13,000	1600	120	230	220	--	--	--	--	--
08/18/93	27.85	17.39	10.46	--	2700	210	10	8.1	18	--	--	--	--	--
11/03/93	27.85	15.28	12.57	--	4600	680	42	35	68	--	--	--	--	--
02/10/94	27.85	18.77	9.08	--	1900	260	19	22	29	--	--	--	--	--
05/12/94	27.85	19.76	8.09	--	2000	390	28	3.9	29	--	--	--	--	--
08/26/94	27.85	17.10	10.75	--	4900	500	<5.0	23	31	--	--	--	--	--
11/14/94	27.85	18.40	9.45	--	760	69	<2.0	<2.0	2.2	300	--	--	--	--
02/01/95	27.85	21.88	5.97	--	1300	120	5.9	<0.5	13	--	--	--	--	--
05/12/95	27.85	20.14	7.71	--	4400	460	31	45	49	--	--	--	--	--
08/22/95	27.85	18.59	9.26	--	2900	310	15	28	32	--	--	--	--	--
12/19/95	27.85	19.05	8.80	--	930	53	<2.5	<2.5	<2.5	--	--	--	39	--
01/31/96	27.85	22.35	5.50	--	3700	320	<10	41	40	--	--	--	180	--
04/30/96	27.85	19.81	8.04	--	3900	270	<20	<20	<20	--	--	--	120	--
08/01/96	27.85	18.67	9.18	--	2700	140	11	18	28	--	--	--	200	--
10/30/96	27.85	18.67	10.76	--	2700	140	<12	<12	<12	--	--	--	280	--
02/07/97	27.85	19.75	8.10	--	220	13	0.6	<0.5	1.6	--	--	--	15	--
05/07/97	27.85	18.33	9.52	--	5200	33	12	21	26	--	--	--	330	--
07/22/97	27.85	17.43	10.42	--	4200	80	<10	16	24	--	--	--	400	--
11/03/97	27.85	16.85	11.00	--	2400	150	6.8	6.5	9.5	--	--	--	510	--
01/28/98	27.85	20.75	7.10	--	850	69	4.8	5.0	11	--	--	--	38	48
05/08/98	27.85	20.14	7.71	--	4200	200	30	40	42	--	--	--	310	200
07/29/98	27.85	18.40	9.45	--	3800	54	10	27	30	--	--	--	35	290
11/06/98	27.85	17.15	10.70	--	4800	100	20	12	23	--	--	--	360	210
02/09/99	27.85	21.87	5.98	ORC socks installed	2950	79.5	<10	<10	<10	--	--	--	435	312
05/13/99	27.85	19.71	8.14	--	4180	147	12.8	16.5	20.3	--	--	--	433	245
09/07/99	27.85	17.94	9.91	--	2750	57.6	<5.0	6.53	<5.0	--	--	--	297	233
11/24/99	27.85	17.36	10.49	--	2550	38	3.18	2.54	5.21	--	--	--	--	216+

+ Lab could not get a good ion chromatogram match for MTBE. See laboratory report.

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	TPH- Diesel	TOG	HVOC	MTBE	MTBE by 8260
MW-2														
02/16/93	27.51	--	--	--	9200	720	110	250	170	--	--	--	--	--
03/26/93	27.51	19.89	7.62	--	--	--	--	--	--	--	--	--	--	--
05/27/93	27.51	18.04	9.47	--	360	5.3	2.1	1.8	2.5	--	--	--	--	--
08/18/93	27.51	16.46	11.05	--	9400	1100	76	110	100	--	--	--	--	--
11/03/93	27.51	14.56	12.95	--	8600	390	20	2.7	120	--	--	--	--	--
02/10/94	27.51	17.72	9.79	--	2700	370	38	44	41	--	--	--	--	--
05/12/94	27.51	18.59	8.92	--	3800	650	76	15	62	--	--	--	--	--
08/26/94	27.51	16.14	11.37	--	16,000	1300	270	28	120	--	--	--	--	--
11/14/94	27.51	17.48	10.03	--	5100	390	10	43	27	--	--	--	--	--
02/01/95	27.51	20.47	7.04	--	6900	520	82	170	110	--	--	--	--	--
05/12/95	27.51	18.76	8.75	--	7700	510	83	110	100	--	--	--	--	--
08/22/95	27.51	17.35	10.16	--	4500	220	16	61	47	--	--	--	--	--
12/19/95	27.51	18.05	9.46	--	2900	240	<10	19	18	--	--	--	220	--
01/31/96	27.51	21.91	5.60	--	3900	320	18	72	39	--	--	--	<25	--
04/30/96	27.51	18.68	8.83	--	5600	200	36	55	47	--	--	--	170	--
08/01/96	27.51	17.25	10.26	--	6200	190	15	62	59	--	--	--	220	--
10/30/96	27.51	17.25	11.48	--	5700	190	<25	67	36	--	--	--	260	--
02/07/97	27.51	18.11	9.40	--	8300	210	34	70	59	--	--	--	330	--
05/07/97	27.51	17.57	9.94	--	6900	190	12	38	37	--	--	--	530	--
07/22/97	27.51	16.36	11.15	--	10,000	18	25	62	41	--	--	--	630	--
11/03/97	27.51	15.93	11.58	--	6500	260	8.5	26	14	--	--	--	590	--
11/03/97	27.51	15.93	11.58	Confirmation run	--	--	--	--	--	--	--	--	--	96
01/28/98	27.51	19.38	8.13	--	6700	65	13	67	54	--	--	--	280	94
05/08/98	27.51	18.89	8.62	--	5500	91	38	43	61	--	--	--	220	62
07/29/98	27.51	17.06	10.45	--	3600	41	8.9	3.6	14	--	--	--	16	94
11/06/98	27.51	15.89	11.62	--	6900	77	<5.0	14	17	--	--	--	290	110
02/09/99	27.51	20.61	6.90	ORC socks installed	8070	75.6	<10	<10	<10	--	--	--	397	144
05/13/99	27.51	18.21	9.30	--	5890	120	<5.0	12.5	26.6	--	--	--	401	69.4
09/07/99	27.51	16.57	10.94	--	5820	41.2	<5.0	14.6	<5.0	--	--	--	260	145
11/24/99	27.51	15.98	11.53	--	5940	40.9	<10	10.8	<10	--	--	--	--	120+

+ Lab could not get a good ion chromatogram match for MTBE. See laboratory report.

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	TPH- Diesel	TOG	HVOC	MTBE	MTBE by 8260
MW-3														
02/16/93	28.50	--	--	--	3500	<0.5	8.1	4.6	7.7	--	--	--	--	--
03/26/93	28.50	21.32	7.18	--	--	--	--	--	--	--	--	--	--	--
05/27/93	28.50	19.17	9.33	--	4200	580	84	150	100	--	--	--	--	--
08/18/93	28.50	16.50	12.00	--	910	12	3.7	6.2	3.8	1400	<5000	ND	--	--
11/03/93	28.50	15.21	13.29	--	5300	29	1.9	0.6	27	--	--	--	--	--
02/10/94	28.50	18.87	9.63	--	63	<0.5	0.7	<0.5	<0.5	<50	--	--	--	--
05/12/94	28.50	19.73	8.77	--	<50	<0.5	0.5	<0.5	<0.5	84	--	--	--	--
08/26/94	28.50	17.08	11.42	--	2100	12	<0.5	5.0	0.5	--	--	--	--	--
11/14/94	28.50	18.43	10.07	--	140	0.78	<0.5	<0.5	<0.5	--	--	--	--	--
02/01/95	28.50	22.21	6.29	--	<50	<0.5	<0.5	<0.5	<0.5	<50	--	--	--	--
05/12/95	28.50	20.43	8.07	--	330	13	1.1	1.9	0.69	540*	--	--	--	--
08/22/95	28.50	18.55	9.95	--	980	32	<1.0	<1.0	<1.0	550*	--	--	--	--
12/19/95	28.50	19.10	9.40	--	<50	<0.5	<0.5	<0.5	<0.5	<50	--	--	<2.5	--
01/31/96	28.50	23.45	5.05	--	<50	<0.5	<0.5	<0.5	<0.5	<50	--	--	<2.5	--
04/30/96	28.50	20.10	8.40	--	320	2.4	<0.5	0.75	<0.5	240*	--	--	7.8	--
08/01/96	28.50	18.70	9.80	--	980	9.6	<0.5	0.98	2.2	470*	--	--	54	--
10/30/96	28.50	18.70	11.48	--	2000	14	<10	<10	<10	760*	--	--	140	--
02/07/97	28.50	19.90	8.60	--	200*	<0.5	<0.5	<0.5	<0.5	61*	--	--	8.9	--
05/07/97	28.50	19.49	9.01	--	3500	14	3.9	3.6	8.0	550*	--	--	160	--
07/22/97	28.50	17.38	11.12	--	3500	55	<10	<10	<10	800*	--	--	150	--
11/03/97	28.50	16.99	11.51	--	4100	140	<5.0	<5.0	<5.0	910*	--	--	380	--
01/28/98	28.50	21.16	7.34	--	1100	24	<1.2	<1.2	2.8	--	--	--	33	6.1
05/08/98	28.50	20.44	8.06	--	990	3.6	7.7	0.7	2.2	250*	--	--	37	7.5
07/29/98	28.50	18.25	10.25	--	1200	13	<0.5	<0.5	1.4	290*	--	--	11	28
11/06/98	28.50	17.11	11.39	--	2600	5.3	<2.5	<2.5	3.0	390*	--	--	91	41
02/09/99	28.50	22.40	6.10	ORC socks installed	406	<1.0	4.03	<1.0	<1.0	184*	--	--	17.7	1.97
05/13/99	28.50	19.38	9.12	--	615	13.8	1.05	<0.5	<0.5	--	--	--	43.5	21.2
09/07/99	28.50	17.77	10.73	--	2710	<5.0	<5.0	<5.0	<5.0	528*	--	--	96.3	57.9
11/24/99	28.50	17.37	11.13	--	5530	<5.0	<5.0	5.59	<5.0	1070*	--	--	--	66+

* Chromatogram pattern indicates an unidentified hydrocarbon.

+ Lab could not get a good ion chromatogram match for MTBE. See laboratory report.

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	TPH- Diesel	TOG	HVOC	MTBE	MTBE by 8260
MW-4														
08/22/95	27.27	18.16	9.11	--	9600	100	<10	<10	<10	--	--	--	--	--
12/19/95	27.27	18.97	8.30	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	<2.5	--
01/31/96	27.27	21.67	5.60	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	<2.5	--
04/30/96	27.27	20.27	7.00	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	<2.5	--
08/01/96	27.27	18.12	9.15	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
10/30/96	27.27	18.12	10.74	--	110	<0.5	<0.5	<0.5	<0.5	--	--	--	<2.5	--
02/07/97	27.27	19.47	7.80	--	80	<0.5	<0.5	<0.5	<0.5	--	--	--	4.1	--
05/07/97	27.27	21.42	5.85	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	<2.5	--
07/22/97	27.27	17.22	10.05	--	150	<0.5	<0.5	<0.5	<0.5	--	--	--	<2.5	--
11/03/97	27.27	16.55	10.72	--	52	0.9	<0.5	<0.5	<0.5	--	--	--	*	--
01/28/98	27.27	20.76	6.51	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	<2.5	<2.0
05/08/98	27.27	20.25	7.02	--	56	<0.5	<0.5	<0.5	<0.5	--	--	--	<2.5	<2.0
07/29/98	27.27	18.32	8.95	--	<50	0.9	<0.5	<0.5	<0.5	--	--	--	<2.5	<2.0
11/06/98	27.27	16.68	10.59	--	72	<0.5	<0.5	<0.5	<0.5	--	--	--	<2.5	<2.0
02/09/99	27.27	21.41	5.86	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	<2.0	1.1
05/13/99	27.27	19.32	7.95	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	<5.0	<2.0
09/07/99	27.27	17.79	9.48	--	70.2	<0.5	<0.5	<0.5	<0.5	--	--	--	<2.0	<1.0
11/24/99	27.27	17.22	10.05	--	227	<0.5	<0.5	<0.5	<0.5	--	--	--	--	<0.5

* No value for MTBE could be determined; see lab report for analyses.

Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Analytical results are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	Notes	TPH- Gasoline	Benzene	Toluene	Ethyl- Benzene	Xylene	TPH- Diesel	TOG	HVOC	MTBE	MTBE by 8260
TRIP BLANK														
05/27/93	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--	--	--	--	--
08/18/93	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	1400	<5000	ND	--	--
11/03/93	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
02/10/94	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<50	--	--	--	--
05/12/94	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	84	--	--	--	--
08/26/94	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
11/14/94	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
02/01/95	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
05/12/95	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
08/22/95	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
12/19/95	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	<2.5	--
01/31/96	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	<2.5	--
04/30/96	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	<2.5	--
08/01/96	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	<2.5	--
10/30/96	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	<2.5	--
02/07/97	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	<2.5	--
05/07/97	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	<2.5	--
07/22/97	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	<2.5	--
01/28/98	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	<2.0
05/08/98	--	--	--	--	--	--	--	--	--	--	--	--	--	<2.0
07/29/98	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	<2.0
11/06/98	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	<2.5	--
02/09/99	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	<2.0	--
05/13/99	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	<5.0	<2.0
09/07/99	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	<2.0	--
11/24/99	--	--	--	--	<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 November 1, 1994.
 Earlier field data and analytical results are drawn from the September 27, 1994 Groundwater Technology, Inc. report.

ABBREVIATIONS:

- TPH = Total Petroleum Hydrocarbons
- TOG = Total Oil & Grease
- HVOC = Halogenated Volatile Organic Compounds
- MTBE = Methyl t-Butyl Ether

Analytical Appendix



December 15, 1999

Scott Boor
Blaine Tech Services (Chev)
1680 Rogers Avenue
San Jose, CA 95112

RE: Chevron 9-4612/M911932

Dear Scott Boor

Enclosed are the results of analyses for sample(s) received by the laboratory on November 24, 1999. Chromatograms for unidentified hydrocarbons are included in this report. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Wendy Bonnes
Project Manager

CA ELAP Certificate Number 1210





Blaine Tech Services (Chev) 1680 Rogers Avenue San Jose, CA 95112	Project: Chevron 9-4612 (3616 San Leandro St., Oakland) Project Number: 991124-Y2 Project Manager: Scott Boor	Sampled: 11/24/99 Received: 11/24/99 Reported: 12/15/99
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ANALYTICAL REPORT FOR M911932

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
VH-1	M911932-01	Water	11/24/99
MW-2	M911932-02	Water	11/24/99
MW-3	M911932-03	Water	11/24/99
MW-4	M911932-04	Water	11/24/99
TB	M911932-05	Water	11/24/99





Blaine Tech Services (Chev) 1680 Rogers Avenue San Jose, CA 95112	Project: Chevron 9-4612 (3616 San Leandro St., Oakland) Project Number: 991124-Y2 Project Manager: Scott Boor	Sampled: 11/24/99 Received: 11/24/99 Reported: 12/15/99
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**MTBE by EPA Method 8260A
Sequoia Analytical - Morgan Hill**

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
<u>VH-1</u>				<u>M911932-01</u>			<u>Water</u>	
Methyl tert-butyl ether	9110789	11/24/99	11/30/99		5.00	216	ug/l	1,D
Surrogate: 1,2-Dichloroethane-d4	"	"	"	70.0-130		114	%	
<u>MW-2</u>				<u>M911932-02</u>			<u>Water</u>	
Methyl tert-butyl ether	9110789	11/24/99	11/30/99		2.50	120	ug/l	1,D
Surrogate: 1,2-Dichloroethane-d4	"	"	"	70.0-130		176	%	2
<u>MW-3</u>				<u>M911932-03</u>			<u>Water</u>	
Methyl tert-butyl ether	9110789	11/24/99	11/30/99		2.50	66.0	ug/l	1,D
Surrogate: 1,2-Dichloroethane-d4	"	"	"	70.0-130		99.2	%	
<u>MW-4</u>				<u>M911932-04</u>			<u>Water</u>	
Methyl tert-butyl ether	9110789	11/24/99	11/30/99		0.500	ND	ug/l	
Surrogate: 1,2-Dichloroethane-d4	"	"	"	70.0-130		103	%	





Blaine Tech Services (Chev) 1680 Rogers Avenue San Jose, CA 95112	Project: Chevron 9-4612 (3616 San Leandro St., Oakland) Project Number: 991124-Y2 Project Manager: Scott Boor	Sampled: 11/24/99 Received: 11/24/99 Reported: 12/15/99
---	---	---

**Total Petroleum Hydrocarbons as Diesel & others by EPA 8015M
Sequoia Analytical - Petaluma**

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
<u>MW-3</u>				<u>M911932-03</u>			<u>Water</u>	
Diesel (C10-C24)	9120182	12/8/99	12/9/99		0.0500	1.07	mg/l	3
Surrogate: o-Terphenyl	"	"	"	50.0-150		84.1	%	





Blaine Tech Services (Chev) 1680 Rogers Avenue San Jose, CA 95112	Project: Chevron 9-4612 (3616 San Leandro St., Oakland) Project Number: 991124-Y2 Project Manager: Scott Boor	Sampled: 11/24/99 Received: 11/24/99 Reported: 12/15/99
---	---	---

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*
				<u>M911932-01</u>			<u>Water</u>	
VH-1								
Gasoline	9120145	12/7/99	12/7/99		100	2550	ug/l	D
Benzene	"	"	"		1.00	38.0	"	D
Toluene	"	"	"		1.00	3.18	"	4,D
Ethylbenzene	"	"	"		1.00	2.54	"	D
Xylenes (total)	"	"	"		1.00	5.21	"	D
Surrogate: <i>a,a,a</i> -Trifluorotoluene	"	"	"	65.0-135		81.0	%	
Surrogate: 4-Bromofluorobenzene	"	"	"	65.0-135		99.0	"	
				<u>M911932-02</u>			<u>Water</u>	
MW-2								
Gasoline	9120145	12/7/99	12/8/99		1000	5940	ug/l	D
Benzene	"	"	"		10.0	40.9	"	D
Toluene	"	"	"		10.0	ND	"	D
Ethylbenzene	"	"	"		10.0	10.8	"	D
Xylenes (total)	"	"	"		10.0	ND	"	D
Surrogate: <i>a,a,a</i> -Trifluorotoluene	"	"	"	65.0-135		85.0	%	
Surrogate: 4-Bromofluorobenzene	"	"	"	65.0-135		96.0	"	
				<u>M911932-03</u>			<u>Water</u>	
MW-3								
Gasoline	9120145	12/7/99	12/8/99		500	5530	ug/l	D
Benzene	"	"	"		5.00	ND	"	D
Toluene	"	"	"		5.00	ND	"	D
Ethylbenzene	"	"	"		5.00	5.59	"	D
Xylenes (total)	"	"	"		5.00	ND	"	D
Surrogate: <i>a,a,a</i> -Trifluorotoluene	"	"	"	65.0-135		83.3	%	
Surrogate: 4-Bromofluorobenzene	"	"	"	65.0-135		100	"	
				<u>M911932-04</u>			<u>Water</u>	
MW-4								
Gasoline	9120145	12/7/99	12/8/99		50.0	227	ug/l	
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Surrogate: <i>a,a,a</i> -Trifluorotoluene	"	"	"	65.0-135		85.3	%	
Surrogate: 4-Bromofluorobenzene	"	"	"	65.0-135		99.3	"	
				<u>M911932-05</u>			<u>Water</u>	
TB								
Gasoline	9120145	12/7/99	12/8/99		50.0	ND	ug/l	
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	





Blaine Tech Services (Chev) 1680 Rogers Avenue San Jose, CA 95112	Project: Chevron 9-4612 (3616 San Leandro St., Oakland) Project Number: 991124-Y2 Project Manager: Scott Boor	Sampled: 11/24/99 Received: 11/24/99 Reported: 12/15/99
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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*
TB (continued)				M911932-05				
Methyl tert-butyl ether	9120145	12/7/99	12/8/99		2.50	ND	ug/l	
Surrogate: <i>a,a,a</i> -Trifluorotoluene	"	"	"	65.0-135		86.3	%	
Surrogate: 4-Bromofluorobenzene	"	"	"	65.0-135		99.0	"	





Blaine Tech Services (Chev) 1680 Rogers Avenue San Jose, CA 95112	Project: Chevron 9-4612 (3616 San Leandro St., Oakland) Project Number: 991124-Y2 Project Manager: Scott Boor	Sampled: 11/24/99 Received: 11/24/99 Reported: 12/15/99
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**MTBE by EPA Method 8260A/Quality Control
Sequoia Analytical - Morgan Hill**

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 9110789			Date Prepared: 11/24/99			Extraction Method: EPA 5030B [P/T]				
Blank			9110789-BLK1							
Methyl tert-butyl ether	11/24/99			ND	ug/l	0.500				
Surrogate: 1,2-Dichloroethane-d4	"	10.0		10.4	"	70.0-130	104			
Blank			9110789-BLK2							
Methyl tert-butyl ether	11/26/99			ND	ug/l	0.500				
Surrogate: 1,2-Dichloroethane-d4	"	10.0		9.79	"	70.0-130	97.9			
Blank			9110789-BLK3							
Methyl tert-butyl ether	11/29/99			ND	ug/l	0.500				
Surrogate: 1,2-Dichloroethane-d4	"	10.0		9.56	"	70.0-130	95.6			
Blank			9110789-BLK4							
Methyl tert-butyl ether	11/30/99			ND	ug/l	0.500				
Surrogate: 1,2-Dichloroethane-d4	"	10.0		9.57	"	70.0-130	95.7			
LCS			9110789-BS1							
Methyl tert-butyl ether	11/24/99	10.0		8.80	ug/l	70.0-130	88.0			
Surrogate: 1,2-Dichloroethane-d4	"	10.0		9.01	"	70.0-130	90.1			
LCS			9110789-BS2							
Methyl tert-butyl ether	11/26/99	10.0		8.24	ug/l	70.0-130	82.4			
Surrogate: 1,2-Dichloroethane-d4	"	10.0		9.23	"	70.0-130	92.3			
LCS			9110789-BS3							
Methyl tert-butyl ether	11/29/99	10.0		8.15	ug/l	70.0-130	81.5			
Surrogate: 1,2-Dichloroethane-d4	"	10.0		9.21	"	70.0-130	92.1			
LCS			9110789-BS4							
Methyl tert-butyl ether	11/30/99	10.0		8.65	ug/l	70.0-130	86.5			
Surrogate: 1,2-Dichloroethane-d4	"	10.0		8.73	"	70.0-130	87.3			
Matrix Spike			9110789-MS1 M911423-05							
Methyl tert-butyl ether	11/24/99	100	86.4	169	ug/l	70.0-130	82.6			D
Surrogate: 1,2-Dichloroethane-d4	"	10.0		9.62	"	70.0-130	96.2			
Matrix Spike Dup			9110789-MSD1 M911423-05							
Methyl tert-butyl ether	11/24/99	100	86.4	164	ug/l	70.0-130	77.6	25.0	6.24	D
Surrogate: 1,2-Dichloroethane-d4	"	10.0		9.04	"	70.0-130	90.4			





Blaine Tech Services (Chev) 1680 Rogers Avenue San Jose, CA 95112	Project: Chevron 9-4612 (3616 San Leandro St., Oakland) Project Number: 991124-Y2 Project Manager: Scott Boor	Sampled: 11/24/99 Received: 11/24/99 Reported: 12/15/99
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Total Petroleum Hydrocarbons as Diesel & others by EPA 8015M/Quality Control
Sequoia Analytical - Petaluma

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 9120182		Date Prepared: 12/8/99		Extraction Method: EPA 3510B						
Blank		9120182-BLK1								
Diesel (C10-C24)	12/9/99			ND	mg/l	0.0500				
Surrogate: o-Terphenyl	"	0.100		0.0903	"	50.0-150	90.3			
LCS		9120182-BS1								
Diesel (C10-C24)	12/9/99	1.00		0.869	mg/l	50.0-150	86.9			
Surrogate: o-Terphenyl	"	0.100		0.0905	"	50.0-150	90.5			
LCS Dup		9120182-BSD1								
Diesel (C10-C24)	12/9/99	1.00		0.909	mg/l	50.0-150	90.9	20.0	4.50	
Surrogate: o-Terphenyl	"	0.100		0.0934	"	50.0-150	93.4			





Blaine Tech Services (Chev) 1680 Rogers Avenue San Jose, CA 95112	Project: Chevron 9-4612 (3616 San Leandro St., Oakland) Project Number: 991124-Y2 Project Manager: Scott Boor	Sampled: 11/24/99 Received: 11/24/99 Reported: 12/15/99
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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*
Batch: 9120145		Date Prepared: 12/7/99		Extraction Method: EPA 5030 waters						
Blank		9120145-BLK1								
Gasoline	12/7/99			ND	ug/l	50.0				
Gasoline	"			ND	"	50.0				
Benzene	"			ND	"	0.500				
Benzene	"			ND	"	0.500				
Toluene	"			ND	"	0.500				
Toluene	"			ND	"	0.500				
Ethylbenzene	"			ND	"	0.500				
Ethylbenzene	"			ND	"	0.500				
Xylenes (total)	"			ND	"	0.500				
Xylenes (total)	"			ND	"	0.500				
Methyl tert-butyl ether	"			ND	"	2.50				
Surrogate: a,a,a-Trifluorotoluene	"	300		297	"	65.0-135	99.0			
Surrogate: a,a,a-Trifluorotoluene	"	300		297	"	65.0-135	99.0			
Surrogate: 4-Bromofluorobenzene	"	300		311	"	65.0-135	104			
Surrogate: 4-Bromofluorobenzene	"	300		311	"	65.0-135	104			
LCS		9120145-BS1								
Gasoline	12/7/99	1000		1030	ug/l	65.0-135	103			
Gasoline	"	1000		1030	"	65.0-135	103			
Surrogate: 4-Bromofluorobenzene	"	300		304	"	65.0-135	101			
Surrogate: 4-Bromofluorobenzene	"	300		304	"	65.0-135	101			
Matrix Spike		9120145-MS1	P912111-08							
Gasoline	12/7/99	1000	ND	1040	ug/l	65.0-135	104			
Gasoline	"	1000	ND	1040	"	65.0-135	104			
Surrogate: 4-Bromofluorobenzene	"	300		312	"	65.0-135	104			
Surrogate: 4-Bromofluorobenzene	"	300		312	"	65.0-135	104			
Matrix Spike Dup		9120145-MSD1	P912111-08							
Gasoline	12/7/99	1000	ND	1050	ug/l	65.0-135	105	20.0	0.957	
Gasoline	"	1000	ND	1050	"	65.0-135	105	20.0	0.957	
Surrogate: 4-Bromofluorobenzene	"	300		315	"	65.0-135	105			
Surrogate: 4-Bromofluorobenzene	"	300		315	"	65.0-135	105			



Date : 09-DEC-1999 22:09

Client ID: M911932-03/MW-3

Lab Sample ID: P912203-01

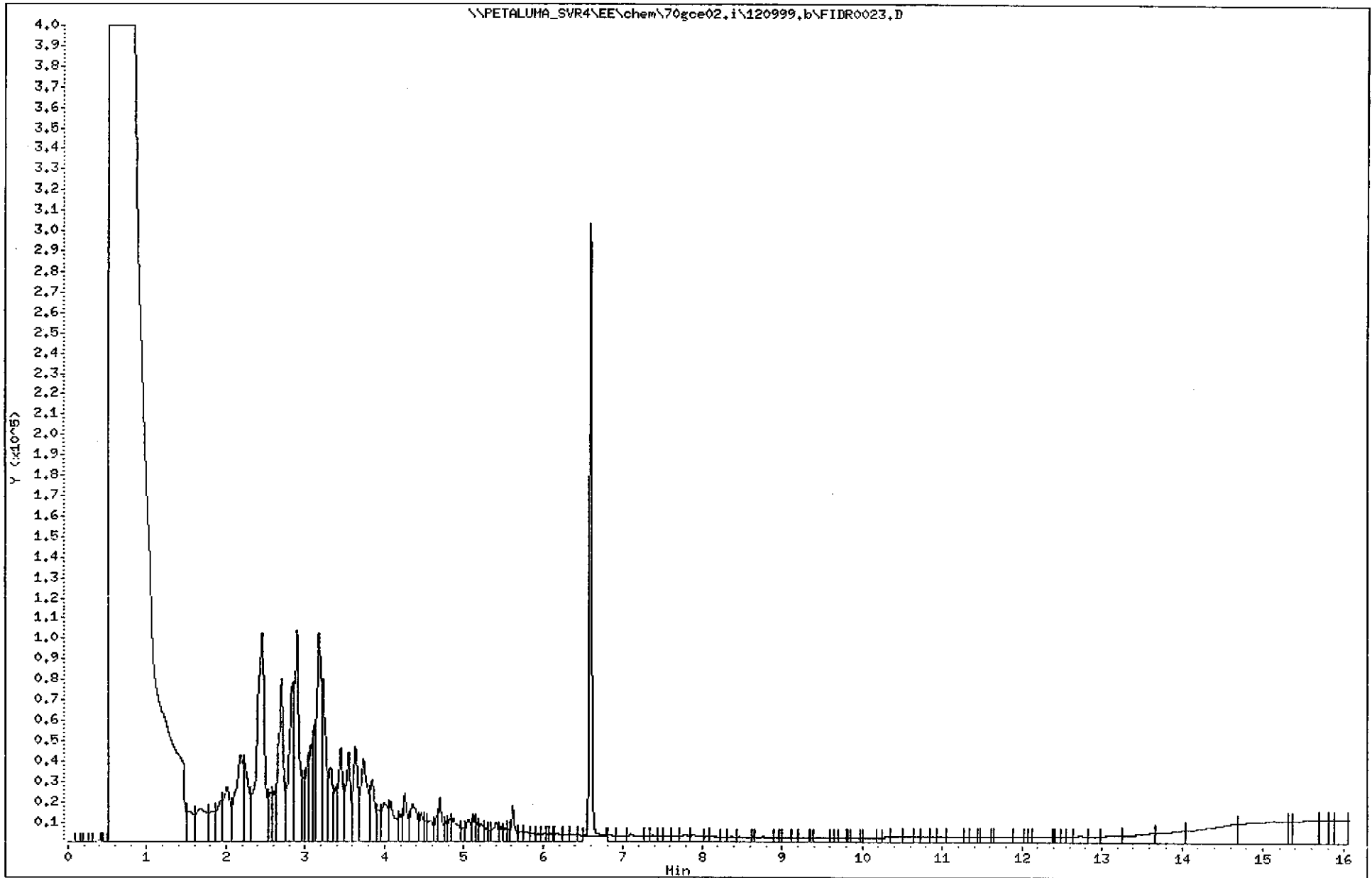
Volume Injected (uL): 1.0

Column phase: Restek HXT-1

Instrument: 70gce02.i

Operator: SAT

Column diameter: 0.53





Blaine Tech Services (Chev) 1680 Rogers Avenue San Jose, CA 95112	Project: Chevron 9-4612 (3616 San Leandro St., Oakland) Project Number: 991124-Y2 Project Manager: Scott Boor	Sampled: 11/24/99 Received: 11/24/99 Reported: 12/15/99
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Notes and Definitions

#	Note
---	------

- D Data reported from a dilution.
- 1 Could not get a good ion chromatogram match for MTBE due to coelution with 2-methyl-pentane, however the quantitation ion for MTBE is present.
- 2 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- 3 Hydrocarbon pattern is present in the requested fuel quantitation range but does not resemble the pattern of the requested fuel. The pattern more closely resembles that of a lighter fuel.
- 4 Results between the primary and confirmation columns varied by greater than 40% RPD.
- DEF 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 #: 991124-42	Station #: 9-4612
Sampler: LEON G	Date: 11-24-99
Well I.D.: VH-1	Well Diameter: <u>2</u> 3 <u>4</u> 6 8
Total Well Depth: 28.39	Depth to Water: 10.49
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	D.O. Meter (if req'd): <u>YSI</u> 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: _____

$\frac{118}{.65} = 181.54$
 $\frac{10.8}{181.54} = 0.0595$
14.70 gal

8.6 11.6	x	3	=	34.8	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
1224	64.9	7.0	1150	^{11.6} 12	
1241	64.6	6.9	1094	^{23.2} 24	
1256	64.7	6.9	1055	35	

Did well dewater? Yes No Gallons actually evacuated: 35

Sampling Time: 1300 Sampling Date: 11-24-99

Sample I.D.: VH-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: <u>2.4</u> mg/L	Post-purge: _____ mg/L
O.R.P. (if req'd):	Pre-purge: _____ mV	Post-purge: _____ mV

CHEVRON WELL MONITORING DATA SHEET

Project #: 991124-42	Station #: 9-4612
Sampler: LEON G.	Date: 11-24-99
Well I.D.: MW-2	Well Diameter: ② 3 4 6 8
Total Well Depth: 19.51	Depth to Water: 11.53
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: _____

1.3	x	3	=	3.9	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
1320	66.2	6.9	1071	1.3 2	
1323	67.1	6.9	1052	2.6 3	
1325	67.4	6.9	1049	4	

Did well dewater? Yes No Gallons actually evacuated: 4

Sampling Time: 1327 Sampling Date: 11-24-99

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

Analyzed for: TPH-G BTEX MTBE TPH-D Other: MTBE x 9260

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

D.O. (if req'd): Pre-purge: 0.4 mg/L Post-purge: mg/L

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

CHEVRON WELL MONITORING DATA SHEET

Project #: <u>991124-42</u>	Station #: <u>9-4612</u>
Sampler: <u>LEON G.</u>	Date: <u>11-24-99</u>
Well I.D.: <u>MW-3</u>	Well Diameter: <u>(2)</u> 3 4 6 8
Total Well Depth: <u>19.09</u>	Depth to Water: <u>11.13</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u>YST</u> 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 Sampling Method: Bailer

Disposable Bailer
 Middleburg
 Electric Submersible
 Extraction Pump
 Other: _____

Disposable Bailer
 Extraction Port
 Other: _____

<u>1.3</u>	x	<u>3</u>	=	<u>3.9</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
1126	66.2	6.9	1093	1.3 2	
1129	66.4	7.0	1075	2.6 3	
1132	66.4	7.0	1063	4	

Did well dewater? Yes No Gallons actually evacuated: 4

Sampling Time: 1134 Sampling Date: 11-24-99

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:	<u>2.2</u> mg/L	Post-purge:		mg/L
------------------	------------	-----------------	-------------	--	------

O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:		mV
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CHEVRON WELL MONITORING DATA SHEET

Project #: 991124-42	Station #: 9-4612
Sampler: LEON G.	Date: 11-24-99
Well I.D.: mw-4	Well Diameter: <u>2</u> 3 4 6 8
Total Well Depth: 19.61	Depth to Water: 10.05
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVO</u> Grade	D.O. Meter (if req'd): <u>YSI</u> 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: <u>Bailer</u> <u>Disposable Bailer</u> Middleburg Electric Submersible Extraction Pump Other: _____	Sampling Method: <u>Bailer</u> <u>Disposable Bailer</u> Extracation Port Other: _____
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<u>1.5</u>	x	<u>3</u>	=	<u>4.5</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
1044	66.1	6.84	596	^{1.5} 2	TURBO
1046	67.7	6.91	599 91	² 3	
1051	67.8	6.9	591	⁵	

Did well dewater? Yes No Gallons actually evacuated: 5

Sampling Time: 1053 Sampling Date: 11-24-99

Sample I.D.: mw-4 Laboratory: Sequoia STEL 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: <u>2.3</u> mg/L	Post-purge: _____ mg/L
O.R.P. (if req'd):	Pre-purge: _____ mV	Post-purge: _____ mV