

ENVIRONMENTAL
PROTECTION

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Chevron

June 3, 1997

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

Chevron Products Company
6001 Bollinger Canyon Road
Building L
San Ramon, CA 94583
P.O. Box 6004
San Ramon, CA 94583-0904

Marketing - Sales West
Phone 510 842 9500

**Re: Former Chevron Service Station # 9-4612
3616 San Leandro Street
Oakland, California**

Dear Mr. Chan:

Enclosed is the Second Quarter Groundwater Monitoring report for 1997 that was prepared by Blaine Tech Services, Inc. for the above noted site. As noted in the reports, the groundwater samples were analyzed for TPH-g, BTEX and MtBE constituents. Monitoring well MW-3 was also analyzed for the TPH-d constituent.

Dissolved concentrations of these constituents in monitoring well MW-2 are consistent with previous sampling results with the benzene constituent decreasing from previous sampling event. The benzene constituents for monitoring wells VH-1 and MW-3 showed an increase from the previous sampling event to 33 ppb and 14 ppb respectively. All constituents were below method detection limits in monitoring well MW-4. The concentration of TPH-d detected in monitoring well MW-3 showed a chromatogram pattern as an unidentified hydrocarbon.

Depth to ground water varied from 5.85 feet to 9.94 feet below grade with the direction of flow varying northwest from MW-4 and southwest from well MW-3.

Chevron will continue to sample quarterly. If you have any questions, call me at (510) 842-9136.

Sincerely,
CHEVRON PRODUCTS COMPANY

Philip R. Briggs
Site Assessment and Remediation Project Manager

Enclosure

June 3, 1997
Mr. Barney Chan
Former Chevron Service Station # 9-4612
Page 2

cc. Ms. B. C. Owen, Chevron

Mr. Jack Ratto
P.O. Box 6032
Oakland, CA. 94603

Mr. Terry McIlraith
407 Castello Road
Lafayette, CA 94549

BLAINE
TECH SERVICES, INC.



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

May 27, 1997

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

2nd Quarter 1997 Monitoring at 9-4612

Second Quarter 1997 Groundwater Monitoring at
Chevron Service Station Number 9-4612
3616 San Leandro Street
Oakland, CA

Monitoring Performed on May 7, 1997

Groundwater Sampling Report 970507-X-3

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

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


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

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

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

Please call if you have any questions.

Yours truly,

A handwritten signature in black ink, appearing to read "Francis Thie", written in a cursive style.

Francis Thie
Vice President

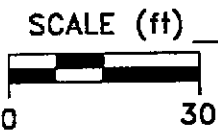
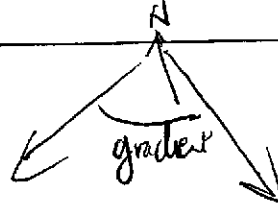
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attachments: Professional Engineering Appendix
Cumulative Table of Well Data and Analytical Results
Analytical Appendix
Field Data Sheets

Professional Engineering Appendix



*owner
Mc I Frack*



EXISTING WAREHOUSE

FORMER WASTE OIL TANK
● MW-3
19.49

FORMER STATION BUILDING

FORMER UNDERGROUND STORAGE TANKS

VH-1
18.33 ●

EXISTING OFFICES

FORMER PUMP ISLANDS

● MW-2
17.57



*area
Rat's*

37th AVENUE

SAN LEANDRO STREET

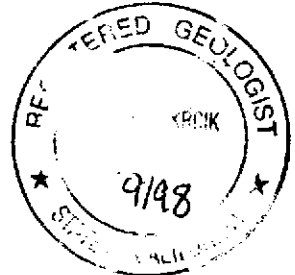
● MW-4
21.42

18.00

20.00

EXPLANATION

- MONITORING WELL
- 17.57 GROUNDWATER ELEVATION (FT, MSL)
- 18.00 — GROUNDWATER ELEVATION CONTOUR (FT, MSL)
- ↓ APPROXIMATE GROUNDWATER FLOW DIRECTION;
APPROXIMATE GRADIENT = 0.05



Basemap from Cambria Environmental Technology, Inc.

PREPARED BY



engineering contracting firm

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

GROUNDWATER ELEVATION CONTOUR MAP,
 MAY 7, 1997

FIGURE:
 1
PROJECT:
 DAC04

Factorable

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
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	--	--	--	<u>330</u>

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
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	--	--	--	<u>530</u>

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
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

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
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

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
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

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



Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Chevron 9-4612/970507X3 Sample Descript: VH-1 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9705440-01	Sampled: 05/07/97 Received: 05/08/97 Analyzed: 05/13/97 Reported: 05/15/97
--	--	---

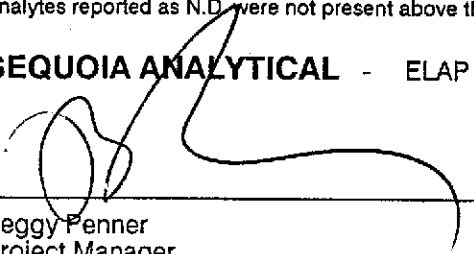
QC Batch Number: GC051397BTEX17A
Instrument ID: GCHP17

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	500	5200
Methyl t-Butyl Ether	25	330
Benzene	5.0	33
Toluene	5.0	12
Ethyl Benzene	5.0	21
Xylenes (Total)	5.0	26
Chromatogram Pattern: Unidentified HC		Gas C6-C8
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	103

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

SEQUOIA ANALYTICAL - ELAP #1210


Peggy Penner
Project Manager





Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Chevron 9-4612/970507X3 Sample Descript: MW-2 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9705440-02	Sampled: 05/07/97 Received: 05/08/97 Analyzed: 05/12/97 Reported: 05/15/97
--	--	---

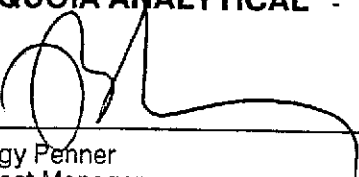
QC Batch Number: GC051297BTEX21A
Instrument ID: GCHP21

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	500	6900
Methyl t-Butyl Ether	25	530
Benzene	5.0	190
Toluene	5.0	12
Ethyl Benzene	5.0	38
Xylenes (Total)	5.0	37
Chromatogram Pattern: Unidentified HC		Gas C6-C8
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	126

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

SEQUOIA ANALYTICAL - ELAP #1210


Peggy Penner
Project Manager





Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Chevron 9-4612/970507X3 Sample Descript: MW-3 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9705440-03	Sampled: 05/07/97 Received: 05/08/97 Analyzed: 05/13/97 Reported: 05/15/97
Attention: Fran Thie		

QC Batch Number: GC051397BTEX17A
Instrument ID: GCHP17

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	250	3500
Methyl t-Butyl Ether	12	160
Benzene	2.5	14
Toluene	2.5	3.9
Ethyl Benzene	2.5	3.6
Xylenes (Total)	2.5	8.0
Chromatogram Pattern: Unidentified HC		Gas C6-C8
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	142 Q

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

SEQUOIA ANALYTICAL - ELAP #1210


Peggy Fenner
Project Manager





Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112

Client Proj. ID: Chevron 9-4612/970507X3
Sample Descript: MW-3
Matrix: LIQUID
Analysis Method: EPA 8015 Mod
Lab Number: 9705440-03

Sampled: 05/07/97
Received: 05/08/97
Extracted: 05/13/97
Analyzed: 05/14/97
Reported: 05/15/97

Attention: Fran Thie

QC Batch Number: GC0512970HBPEXB
Instrument ID: GCHP4A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel Chromatogram Pattern:	50 C9-C24	550 Unidentified HC
Surrogates n-Pentacosane (C25)	Control Limits % 50 150	% Recovery 86

Results quantitated against a diesel standard.
Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Peggy Penner
Project Manager





Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Chevron 9-4612/970507X3 Sample Descript: MW-4 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9705440-04	Sampled: 05/07/97 Received: 05/08/97 Analyzed: 05/12/97 Reported: 05/15/97
Attention: Fran Thie		

QC Batch Number: GC051297BTEX21A
Instrument ID: GCHP21

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:		
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	105

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

SEQUOIA ANALYTICAL - ELAP #1210

Peggy Penner
Project Manager





Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Chevron 9-4612/970507X3 Sample Descript: TB Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9705440-05	Sampled: 05/07/97 Received: 05/08/97 Analyzed: 05/12/97 Reported: 05/15/97
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QC Batch Number: GC051297BTEX21A
Instrument ID: GCHP21

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:		
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 #1210


Peggy Penner
Project Manager





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

Client Proj. ID: Chevron 9-4612/970507X3
Lab Proj. ID: 9705440

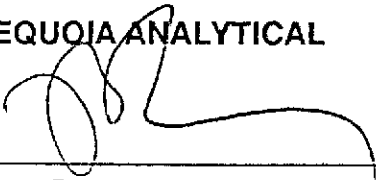
Received: 05/08/97
Reported: 05/15/97

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.).

TPPH Note: Sample 9705440-01 was diluted 10-fold.
Sample 9705440-02 was diluted 10-fold.
Sample 9705440-03 was diluted 5-fold.

SEQUOIA ANALYTICAL


Peggy Penner
Project Manager





Blaine Tech Services, Inc. Client Project ID: Chevron 9-4612 / 970507X3
1680 Rogers Avenue Matrix: Liquid
San Jose, CA 95112
Attention: Fran Thie Work Order #: 9705440 -01, 03 Reported: May 15, 1997

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Gas
QC Batch#:	GC051397BTEX17A	GC051397BTEX17A	GC051397BTEX17A	GC051397BTEX17A	GC051397BTEX17A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8015M
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	A. Miraftab	A. Miraftab	A. Miraftab	A. Miraftab	A. Miraftab
MS/MSD #:	970549702	970549702	970549702	970549702	970549702
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	5/13/97	5/13/97	5/13/97	5/13/97	5/13/97
Analyzed Date:	5/13/97	5/13/97	5/13/97	5/13/97	5/13/97
Instrument I.D.#:	GCHP17	GCHP17	GCHP17	GCHP17	GCHP17
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	60 µg/L
Result:	8.3	8.4	8.2	24	61
MS % Recovery:	83	84	82	80	102
Dup. Result:	8.9	8.5	8.4	25	62
MSD % Recov.:	89	85	84	83	103
RPD:	7.0	1.2	2.4	4.1	1.6
RPD Limit:	0-25	0-25	0-25	0-25	0-25

LCS #:	BLK051397	BLK051397	BLK051397	BLK051397	BLK051397
Prepared Date:	5/13/97	5/13/97	5/13/97	5/13/97	5/13/97
Analyzed Date:	5/13/97	5/13/97	5/13/97	5/13/97	5/13/97
Instrument I.D.#:	GCHP17	GCHP17	GCHP17	GCHP17	GCHP17
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	60 µg/L
LCS Result:	8.4	8.5	8.5	26	64
LCS % Recov.:	84	85	85	87	107

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

SEQUOIA ANALYTICAL

Peggy Penner
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.





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

Client Project ID: Chevron 9-4612 / 970507X3
Matrix: Liquid

Work Order #: 9705440-02, 04-05

Reported: May 15, 1997

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Gas
QC Batch#:	GC051297BTEX21A	GC051297BTEX21A	GC051297BTEX21A	GC051297BTEX21A	GC051297BTEX21A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8015M
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030	EPA 5030

Analyst:	D. Jirsa	D. Jirsa	D. Jirsa	D. Jirsa	D. Jirsa
MS/MSD #:	970537808	970537808	970537808	970537808	970537808
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	5/12/97	5/12/97	5/12/97	5/12/97	5/12/97
Analyzed Date:	5/12/97	5/12/97	5/12/97	5/12/97	5/12/97
Instrument I.D.#:	GCHP21	GCHP21	GCHP21	GCHP21	GCHP21
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	60 µg/L
Result:	8.8	9.5	9.9	30	67
MS % Recovery:	88	95	99	100	112
Dup. Result:	8.5	9.0	9.1	27	64
MSD % Recov.:	85	90	91	90	107
RPD:	3.5	5.4	8.4	11	4.6
RPD Limit:	0-25	0-25	0-25	0-25	0-25

LCS #:	BLK051297	BLK051297	BLK051297	BLK051297	BLK051297
Prepared Date:	5/12/97	5/12/97	5/12/97	5/12/97	5/12/97
Analyzed Date:	5/12/97	5/12/97	5/12/97	5/12/97	5/12/97
Instrument I.D.#:	GCHP21	GCHP21	GCHP21	GCHP21	GCHP21
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	60 µg/L
LCS Result:	8.9	8.9	9.0	27	60
LCS % Recov.:	89	89	90	90	100

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

SEQUOIA ANALYTICAL

Peggy Fenner
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

9705440.BLA <2>





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

Client Project ID: Chevron 9-4612 / 970507X3
Matrix: Liquid

Work Order #: 9705440-03

Reported: May 15, 1997

QUALITY CONTROL DATA REPORT

Analyte: Diesel

QC Batch#: GC0512970HBPEXB

Analy. Method: EPA 8015M

Prep. Method: EPA 3510

Analyst: B. Sullivan

MS/MSD #: 970528601

Sample Conc.: 59

Prepared Date: 5/12/97

Analyzed Date: 5/13/97

Instrument I.D.#: GCHP4

Conc. Spiked: 1000 µg/L

Result: 990

MS % Recovery: 93

Dup. Result: 850

MSD % Recov.: 79

RPD: 15

RPD Limit: 0-50

LCS #: BLK051397

Prepared Date: 5/13/97

Analyzed Date: 5/14/97

Instrument I.D.#: GCHP4

Conc. Spiked: 1000 µg/L

LCS Result: 750

LCS % Recov.: 75

MS/MSD 50-150

LCS 60-140

Control Limits

SEQUOIA ANALYTICAL

Peggy Penner
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

9705440.BLA <3>



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 9-4612
Facility Address 3616 San Leandro St., Oakland, CA
Consultant Project Number 970507x3
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 9034818
Samples Collected by (Name) KEN Weddinsfeld
Collection Date 5/7/97
Signature K. Weddinsfeld

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)	Analyses To Be Performed										DO NOT BILL FOR TB-LB	Remarks				
								BTEX + TPH GAS (8020 + 8015)	TPH Diesel (8015)	Oil and Grease (5520)	Purgeable Hydrocarbons (8010)	Purgeable Aromatics (8020)	Purgeable Organics (8240)	Extractable Organics (8270)	Metals Cd, Cr, Pb, Zn, Ni (ICAP or AA)								
VH-1	1	W	W		10:08	HCL	Y	X															
MW-2	2	W	W		10:26			X															
MW-3	3	W	W		10:40			X	X														
MW-4	4	W	W		9:24			X															
TB	5	W	W					X															

MY 8 11 39

Relinquished By (Signature) <u>[Signature]</u>	Organization <u>BTS</u>	Date/Time <u>5/8/97 1000</u>	Received By (Signature) <u>[Signature]</u>	Organization <u>SEQ</u>	Date/Time <u>5/8/97 1000</u>	Turn Around Time (Circle Choice) 24 Hrs. 48 Hrs. 6 Days 10 Days As Contracted
Relinquished By (Signature) <u>[Signature]</u>	Organization <u>SEQ</u>	Date/Time <u>5/8/97 1130</u>	Received By (Signature) <u>[Signature]</u>	Organization	Date/Time	
Relinquished By (Signature) <u>[Signature]</u>	Organization	Date/Time	Received For Laboratory By (Signature) <u>[Signature]</u>	Organization	Date/Time <u>5/8/97 1:35</u>	

CHEVRON WELL MONITORING DATA SHEET

Project #: <u>970507 X3</u>	Station #: <u>9-4612</u>
Sampler: <u>KW</u>	Date: <u>5/7</u>
Well I.D.: <u>VH-1</u>	Well Diameter: 2 3 4 6 8
Total Well Depth: <u>28.50</u>	Depth to Water: <u>9.52</u>
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:	Sampling Method:
Bailer	Bailer
Disposable Bailer	Disposable Bailer <input checked="" type="checkbox"/>
Middleburg	Extraction Port
Electric Submersible	Other: _____
Extraction Pump	
Other: <u>PC 4 in bailer</u>	

<u>12.3</u>	x	<u>3</u>	=	<u>36.9</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
9:45	<u>61.0</u>	<u>6.6</u>	<u>980</u>	<u>13</u>	
9:56	<u>61.2</u>	<u>6.0</u>	<u>980</u>	<u>26</u>	
10:05	<u>61.9</u>	<u>6.0</u>	<u>980</u>	<u>39</u>	

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Gallons actually evacuated: <u>39</u>
Sampling Time: <u>10:08</u>	Sampling Date: <u>5/7</u>
Sample I.D.: <u>VH-1</u>	Laboratory: (Sequora) 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 #: 970507X3	Station #: 94612
Sampler: KW	Date: 5/7
Well I.D.: MW-4	Well Diameter: <input checked="" type="radio"/> 3 <input type="radio"/> 4 <input type="radio"/> 6 <input type="radio"/> 8 <input type="radio"/> _____
Total Well Depth: 16.86	Depth to Water: 5.85
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <input checked="" type="radio"/> 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 <input checked="" type="checkbox"/> Middleburg Electric Submersible Extraction Pump Other: _____	Sampling Method: Bailer <input checked="" type="checkbox"/> Disposable Bailer <input checked="" type="checkbox"/> Extraction Port Other: _____
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<u>1.7</u>	x	<u>3</u>	=	<u>5.1</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
9:18	62.4	7.6	1600	2	
9:20	61.6	7.0	720	4	
9:22	61.4	6.8	720	6	

Did well dewater? Yes <input checked="" type="radio"/> No	Gallons actually evacuated: 6
Sampling Time: 9:24	Sampling Date: 5/7
Sample I.D.: MW-4	Laboratory: <input checked="" type="radio"/> Sequoia GTEL
Analyzed for: <input checked="" type="checkbox"/> TPH-G <input checked="" type="checkbox"/> BTEX <input checked="" type="checkbox"/> 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