

ENVIRONMENTAL
PROTECTION

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Chevron

November 7, 1996

Dr. Ravi Arulanantham
RWQCB- San Francisco Bay Region
2101 Webster Street, Suite 500
Oakland, CA 94612

Chevron Products Company
6001 Bollinger Canyon Road
Building L
San Ramon, CA 94583
P.O. Box 5004
San Ramon, CA 94583-0804

Marketing - Northwest Region
Phone 510 842 9500

**Re: Former Chevron Service Station #9-3864
5101 Telegraph Avenue, Oakland, CA**

Dear Dr. Arulanantham:

Enclosed is the Second and Third Quarter Groundwater Monitoring Reports for 1996, that were prepared by our consultant Blaine Tech Services, Inc. for the above noted site. I apologize for the delay in the submittal of the Second Quarter Report and future reports will be submitted in a timely manner. Ground water samples were collected and analyzed for TPH-g, BTEX and MtBE constituents.

Concentrations of dissolved TPH-g, BTEX and MtBE constituents were below method detection limits for monitoring wells C-4, MW-1, MW-2, and MW-5 in the second and third quarters, while dissolved hydrocarbon constituents have increased from the first quarter sampling results. Depth to ground water varied in the second quarter from 10.18 to 15.80 feet below grade, with a direction of flow southeasterly. In the third quarter, depth to ground water varied from 10.57 to 16.43 feet below grade with a direction of flow southeasterly.

Chevron will continue to sample the wells quarterly. For your information, Mr. Kenneth Kan has been reassigned to other projects within the site assessment group and I have taken over this project from him. If you have any questions or comments, call me at (510) 842-9136.

Sincerely,
CHEVRON PRODUCTS COMPANY

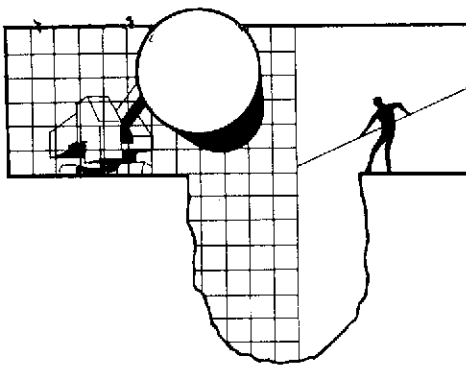
Philip R. Briggs
Site Assessment and Remediation Project Manger

Enclosure

November 7, 1996
Dr. Ravi Arulanantham
Former Chevron Service Station # 9-3864
Page 2

cc. Mr. Bette Owen, Chevron

Ms. Susan Hugo
Alameda County Health Care Services
Department of Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577



BLAINE TECH SERVICES INC.

985 TIMOTHY DRIVE
SAN JOSE, CA 95133
(408) 995-5535
FAX (408) 293-8773

October 17, 1996

Kenneth Kan
Chevron U.S.A. Products Company
P.O. Box 5004
San Ramon, CA 94583-0804

3rd Quarter 1996 Monitoring at 9-3864

Third Quarter 1996 Groundwater Monitoring at
Chevron Service Station Number 9-3864
5101 Telegraph Avenue
Oakland, CA

Monitoring Performed on September 12, 1996

Groundwater Sampling Report 960912-L-1

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.

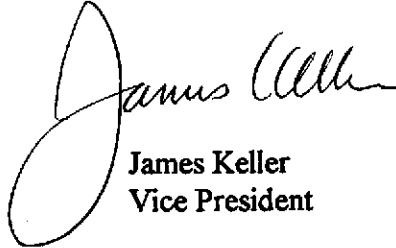
Basic field information is presented alongside analytical values excerpted from the laboratory report in the cumulative table of **WELL DATA AND ANALYTICAL RESULTS**. The full analytical report for the most recent samples is located in the **Analytical Appendix**. The table also contains new groundwater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



James Keller
Vice President

JPK/dk

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

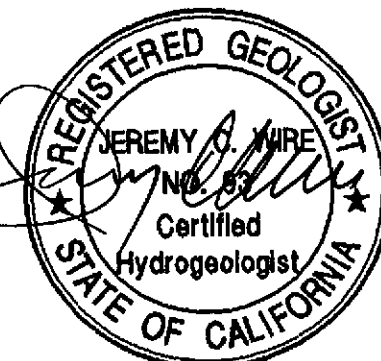
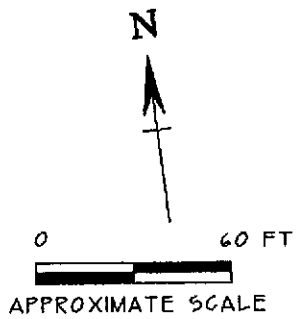
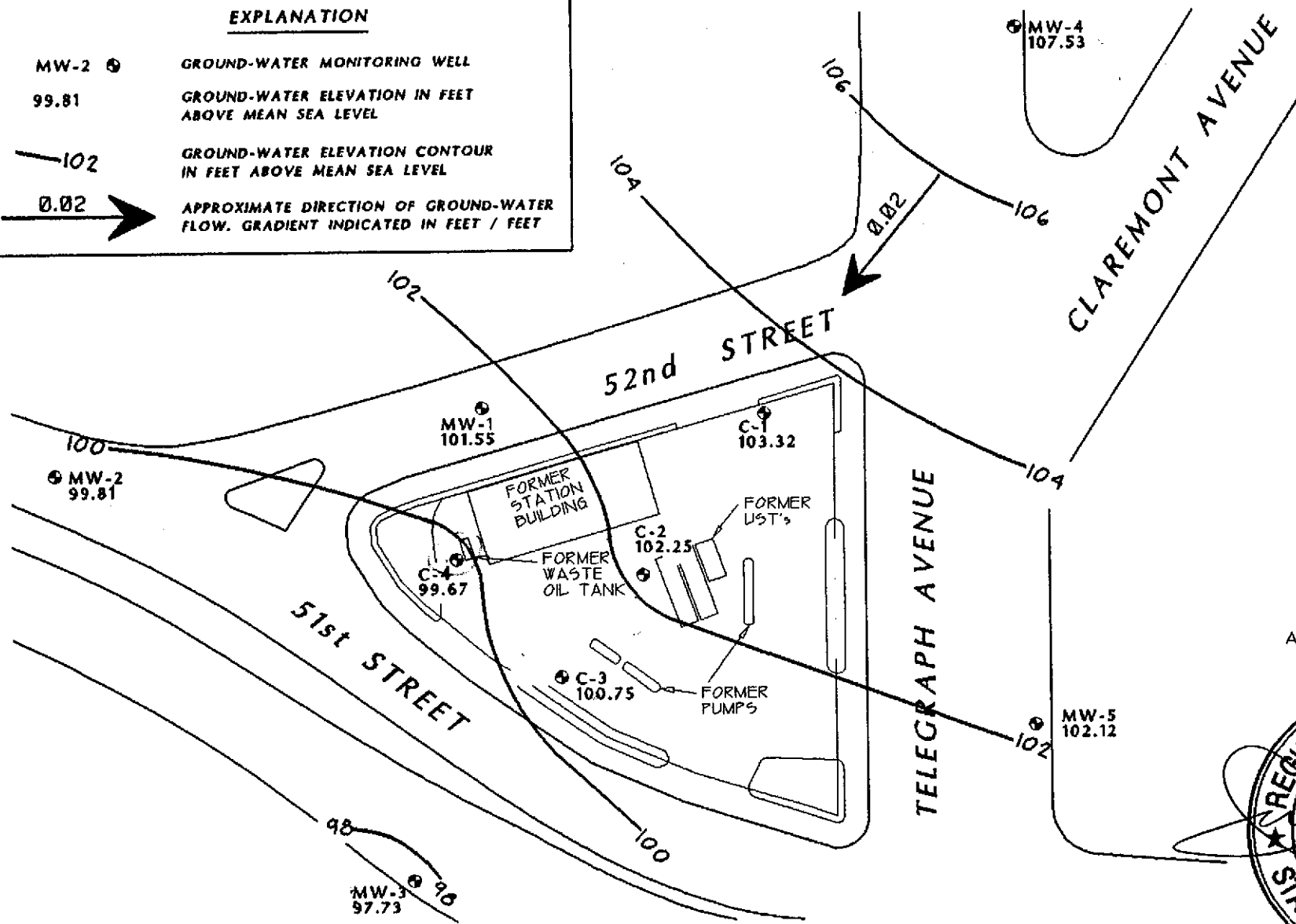
Professional Engineering Appendix

EXPLANATION

MW-2 ⊕ GROUND-WATER MONITORING WELL
99.81 GROUND-WATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL

—102 GROUND-WATER ELEVATION CONTOUR IN FEET ABOVE MEAN SEA LEVEL

0.02 → APPROXIMATE DIRECTION OF GROUND-WATER FLOW. GRADIENT INDICATED IN FEET / FEET



NOTES:

TITLE : GROUND-WATER ELEVATION CONTOUR MAP - SEPTEMBER 12, 1996

LOCATION : FORMER CHEVRON SERVICE STATION 9-3864 5101 TELEGRAPH AVENUE, OAKLAND, CALIFORNIA

SOURCE : CAMBRIA ENVIRONMENTAL TECHNOLOGY, INC.



GEOCONSULTANTS, INC
SAN JOSE, CALIFORNIA
Project No. G758-09
DRWG NO: W091296 REV:

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
C-1										
12/06/90	117.45	102.11	15.34	--	1900	17	11	3.0	21	--
06/06/91	117.45	102.83	14.62	--	3400	21	15	11	18	--
12/04/91	117.45	102.97	14.48	--	2700	22	16	13	23	--
06/02/92	117.45	102.92	14.53	--	1900	170	170	13	83	--
09/16/92	117.45	102.52	14.93	--	810	5.8	5.7	2.0	6.3	--
12/21/92	117.45	103.72	13.73	--	75	2.4	2.9	1.4	4.7	--
03/11/93	117.45	103.62	13.83	--	150	2.4	20	3.3	23	--
06/11/93	117.45	103.26	14.19	--	400	4.3	2.3	1.0	3.5	--
09/13/93	117.45	102.85	14.60	--	4100	62	43	34	57	--
12/14/93	117.45	103.67	13.78	--	3100	9.5	4.5	1.2	11	--
03/16/94	117.45	103.44	14.01	--	410	6.3	3.1	1.3	4.5	--
06/17/94	117.45	102.90	14.55	--	3700	100	42	30	91	--
08/29/94	117.45	102.96	14.49	--	2600	15	<0.5	6.7	9.7	--
12/06/94	117.45	104.04	13.41	--	510	2.0	2.2	1.7	9.4	--
03/31/95	117.45	105.33	12.12	--	5440	9.0	2.3	2.0	3.6	--
06/24/95	117.45	103.45	14.00	--	260	5.8	1.0	0.94	0.88	--
09/12/95	117.45	103.42	14.03	--	650	14	1.1	1.6	2.4	--
12/29/95	117.45	104.50	12.95	--	990	32	6.3	4.0	3.2	46
02/29/96	117.45	105.27	12.18	--	840	2.5	<1.0	2.6	7.3	<5.0
06/26/96	117.45	103.72	13.73	--	290	3.6	0.73	1.0	1.1	9.9
09/12/96	117.45	103.32	14.13	--	1200	17	1.8	4.0	4.4	24

Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Analytical results are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	MTBE
C-2										
12/06/90	116.16	100.82	15.34	--	210	140	9.0	2.0	11	--
06/06/91	116.16	101.54	14.62	--	4800	340	23	19	23	--
12/04/91	116.16	100.73	15.43	--	3900	85	15	9.1	15	--
06/02/92	116.16	101.74	14.42	--	3300	76	9.2	14	15	--
09/16/92	116.16	101.35	14.81	--	3000	16	15	3.4	7.5	--
12/21/92	116.16	102.79	13.37	--	2200	21	12	7.1	15	--
03/11/93	116.16	102.69	13.47	--	2200	33	24	12	25	--
06/11/93	116.16	102.18	13.98	--	2600	21	25	11	26	--
09/13/93	116.16	101.61	14.55	--	2100	31	25	18	39	--
12/14/93	116.16	102.46	13.70	--	3800	<2.5	24	12	20	--
03/16/94	116.16	102.51	13.65	--	2600	12	15	10	17	--
06/17/94	116.16	102.87	13.29	--	2400	17	19	28	71	--
08/29/94	116.16	111.60	4.56	--	3000	29	15	20	4.2	--
12/06/94	116.16	102.98	13.18	--	1900	7.9	30	14	31	--
03/31/95	116.16	104.10	12.06	--	890	<1.3	<1.3	2.6	<1.3	--
06/24/95	116.16	102.19	13.97	--	730	4.8	<0.5	5.4	0.96	--
09/12/95	116.16	102.28	13.88	--	1600	<2.5	<2.5	5.4	<2.5	--
12/29/95	116.16	103.31	12.85	--	1000	9.1	2.7	8.7	2.7	19
02/29/96	116.16	104.09	12.07	--	850	<2.5	<2.5	8.7	11	<12
06/26/96	116.16	102.50	13.66	--	2500	14	<5.0	13	6.3	<25
09/12/96	116.16	102.25	13.91	--	1800	26	19	17	31	37

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
C-3										
12/06/90	115.70	98.84	16.86	--	210	2.0	<0.5	<0.5	1.0	--
12/06/90	115.70	--	--	Duplicate	220	2.0	0.6	<0.5	2.0	--
06/06/91	115.70	100.01	15.69	--	6400	310	21	16	21	--
09/16/92	115.70	99.81	15.89	--	7100	130	26	12	30	--
12/04/91	115.70	100.32	15.38	--	5100	120	18	17	20	--
06/02/92	115.70	100.30	15.40	--	6700	140	44	17	37	--
12/21/92	115.70	101.79	13.91	--	13,000	390	360	100	410	--
03/11/93	115.70	101.95	13.75	--	5100	86	20	12	23	--
06/11/93	115.70	101.03	14.67	--	7200	91	38	19	38	--
09/13/93	115.70	100.17	15.53	--	6800	100	52	41	75	--
12/14/93	115.70	101.30	14.40	--	8600	74	23	18	36	--
03/16/94	115.70	101.44	14.26	--	6000	100	42	27	30	--
06/17/94	115.70	100.60	15.10	--	15,000	170	120	120	270	--
08/29/94	115.70	100.30	15.40	--	26,000	51	<0.5	58	107	--
12/06/94	115.70	101.90	13.80	--	34,000	88	140	98	390	--
03/31/95	115.70	102.91	12.79	--	2800	42	<5.0	<5.0	6.6	--
06/24/95	115.70	100.84	14.86	--	5200	34	<10	<10	13	--
09/12/95	115.70	100.76	14.94	--	7000	45	<10	28	42	--
12/29/95	115.70	102.12	13.58	--	5100	20	<10	<10	19	<50
02/29/96	115.70	102.88	12.82	--	2600	15	<5.0	17	16	<25
06/26/96	115.70	101.32	14.38	--	4400	<10	<10	<10	<10	<50
09/12/96	115.70	100.75	14.95	--	5800	73	22	18	17	61

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
C-4										
12/06/90	116.10	98.42	17.68	--	<50	<0.5	<0.5	<0.5	<0.5	--
12/18/90	116.10	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
06/06/91	116.10	99.61	16.49	--	<50	1.0	1.0	<0.5	0.7	--
12/04/91	116.10	99.28	16.82	--	70	6.5	9.8	1.7	8.6	--
06/02/92	116.10	99.18	16.92	--	70	3.0	4.4	1.8	9.0	--
09/16/92	116.10	98.39	17.71	--	<50	1.4	1.8	<0.5	1.1	--
12/21/92	116.10	100.74	15.36	--	<50	0.6	0.7	<0.5	1.5	--
03/11/93	116.10	100.61	15.49	--	<50	<0.5	<0.5	<0.5	<1.5	--
06/11/93	116.10	99.83	16.27	--	52	0.9	3.1	0.7	3.8	--
09/13/93	116.10	98.92	17.18	--	64	0.9	1.0	<0.5	1.7	--
12/14/93	116.10	101.03	15.07	--	<50	<0.5	0.8	<0.5	0.7	--
03/16/94	116.10	100.19	15.91	--	<50	<0.5	1.0	<0.5	0.8	--
06/17/94	116.10	99.46	16.64	--	230	0.6	2.2	2.2	11	--
08/29/94	116.10	99.05	17.05	--	<50	<0.5	<0.5	<0.5	<0.5	--
12/06/94	116.10	101.52	14.58	--	<50	<0.5	<0.5	<0.5	<0.5	--
03/31/95	116.10	102.26	13.84	--	<50	<0.5	<0.5	<0.5	<0.5	--
06/24/95	116.10	100.05	16.05	--	<50	<0.5	<0.5	<0.5	<0.5	--
09/12/95	116.10	99.87	16.23	--	<50	<0.5	<0.5	<0.5	<0.5	--
12/29/95	116.10	101.35	14.75	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
02/29/96	116.10	102.40	13.70	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
06/26/96	116.10	100.30	15.80	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
09/12/96	116.10	99.67	16.43	--	<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	MTBE
MW-1										
09/20/93	115.05	102.37	12.68	--	<50	<0.5	<0.5	<0.5	<1.5	--
12/14/93	115.05	105.01	10.04	--	<50	<0.5	<0.5	<0.5	<0.5	--
03/16/94	115.05	103.10	11.95	--	<50	<0.5	1.7	<0.5	2.1	--
06/17/94	115.05	102.51	12.54	--	350	1.2	3.7	2.0	12	--
08/29/94	115.05	101.98	13.07	--	<50	<0.5	<0.5	<0.5	<0.5	--
12/06/94	115.05	104.45	10.60	--	140	0.9	2.8	1.1	4.2	--
03/31/95	115.05	104.74	10.31	--	<50	<0.5	<0.5	<0.5	<0.5	--
06/24/95	115.05	102.44	12.61	--	<50	<0.5	<0.5	<0.5	<0.5	--
09/12/95	115.05	102.00	13.05	--	<50	<0.5	<0.5	<0.5	<0.5	--
02/02/96	115.05	106.19	8.86	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
02/29/96	115.05	105.39	9.66	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
06/26/96	115.05	102.85	12.20	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
09/12/96	115.05	101.55	13.50	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
MW-2										
09/20/93	112.08	99.93	12.15	--	<50	<0.5	<0.5	<0.5	<1.5	--
12/14/93	112.08	97.36	14.72	--	<50	<0.5	<0.5	<0.5	<0.5	--
03/16/94	112.08	100.92	11.16	--	<50	<0.5	1.1	<0.5	0.9	--
06/17/94	112.08	100.41	11.67	--	330	1.4	3.3	1.9	11	--
08/29/94	112.08	100.08	12.00	--	<50	<0.5	<0.5	<0.5	<0.5	--
12/06/94	112.08	102.57	9.51	--	<50	<0.5	<0.5	<0.5	<0.5	--
03/31/95	112.08	103.24	8.84	--	<50	<0.5	<0.5	<0.5	<0.5	--
06/24/95	112.08	100.44	11.64	--	<50	<0.5	<0.5	<0.5	<0.5	--
09/12/95	112.08	100.00	12.08	--	<50	<0.5	<0.5	<0.5	<0.5	--
12/29/95	112.08	101.58	10.50	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
02/29/96	112.08	104.08	8.00	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
06/26/96	112.08	100.58	11.50	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
09/12/96	112.08	99.81	12.27	--	<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	MTBE
MW-3										
09/20/93	113.67	97.25	16.42	--	6600	400	11	32	23	--
12/14/93	113.67	98.95	14.72	--	8400	390	9.4	13	<2.5	--
03/16/94	113.67	98.45	15.22	--	6900	260	30	32	27	--
06/17/94	113.67	97.62	16.05	--	10,000	190	61	58	190	--
08/29/94	113.67	97.44	16.23	--	7200	74	9.8	26	24	--
12/06/94	113.67	99.35	14.32	--	13,000	610	86	88	140	--
03/31/95	113.67	99.98	13.69	--	4300	120	<10	12	<10	--
06/24/95	113.67	98.02	15.65	--	6200	210	24	29	12	--
09/12/95	113.67	97.68	15.99	--	7200	190	<20	<20	<20	--
12/29/95	113.67	99.67	14.00	--	7100	200	<10	45	24	<50
02/29/96	113.67	100.91	12.76	--	1200	30	<5.0	<5.0	<5.0	<25
06/26/96	113.67	98.44	15.23	--	7900	180	<20	35	28	240
09/12/96	113.67	97.73	15.94	--	11,000	150	<5.0	35	28	170
MW-4										
09/20/93	118.10	107.17	10.93	--	5800	16	4.2	35	48	--
12/14/93	118.10	108.33	9.77	--	7100	19	6.5	24	35	--
03/16/94	118.10	107.99	10.11	--	8500	83	43	60	70	--
06/17/94	118.10	107.20	10.90	--	21,000	150	20	140	350	--
08/29/94	118.10	107.28	10.82	--	10,000	86	71	44	85	--
12/06/94	118.10	108.70	9.40	--	13,000	68	56	67	110	--
03/31/95	118.10	109.31	8.79	--	6700	100	9.4	26	23	--
06/24/95	118.10	107.60	10.50	--	6300	<20	<20	<20	24	--
09/12/95	118.10	107.90	10.20	--	7100	65	16	<10	21	--
12/29/95	118.10	108.86	9.24	--	3300	<10	<10	12	14	720
02/29/96	118.10	111.85	6.25	--	5100	<10	37	23	21	85
06/26/96	118.10	107.92	10.18	--	6800	<20	<20	<20	<20	<100
09/12/96	118.10	107.53	10.57	--	13,000	150	<10	38	35	240

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
MW-5										
09/20/93	116.74	101.43	15.31	--	590	25	1.8	0.6	2.0	--
12/14/93	116.74	102.19	14.55	--	210	11	6.3	2.3	6.1	--
03/16/94	116.74	101.77	14.97	--	270	12	16	4.8	17	--
06/17/94	116.74	101.36	15.38	--	220	24	17	6.7	28	--
08/29/94	116.74	101.54	15.20	--	1000	<0.5	<0.5	<0.5	<0.5	--
12/06/94	116.74	102.09	14.65	--	110	9.2	9.7	2.2	11	--
03/31/95	116.74	103.04	13.70	--	<50	<0.5	<0.5	<0.5	<0.5	--
06/24/95	116.74	101.95	14.79	--	<50	<0.5	<0.5	<0.5	<0.5	--
09/12/95	116.74	102.15	14.59	--	<50	<0.5	<0.5	<0.5	<0.5	--
12/29/95	116.74	101.76	14.98	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
02/29/96	116.74	103.07	13.67	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
06/26/96	116.74	102.50	14.24	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
09/12/96	116.74	102.12	14.62	--	<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	MTBE
TRIP BLANK										
12/06/90	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
12/18/90	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
06/06/91	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
12/04/91	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
06/02/92	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
09/16/92	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
12/21/92	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
03/11/93	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--
06/11/93	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--
09/13/93	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--
12/14/93	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
03/16/94	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
06/17/94	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
08/29/94	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
12/06/94	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
03/31/95	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
06/24/95	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
09/12/95	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
12/29/95	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
02/29/96	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
06/26/96	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
09/12/96	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--

Note: Blaine Tech Services, Inc. began routine monitoring of the groundwater wells at this site on March 31, 1995. Earlier field data and analytical results provided by Sierra Environmental.

ABBREVIATIONS:

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

Analytical Appendix



Blaine Technical Services 985 Timothy Drive San Jose, CA 95133	Client Proj. ID: Chevron 9-3864/960912-L1 Sample Descript: C-1 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9609793-01	Sampled: 09/12/96 Received: 09/13/96 Analyzed: 09/20/96 Reported: 09/26/96
Attention: Jim Keller		

QC Batch Number: GC092096BTEX07A
Instrument ID: GCHP07

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	100	1200
Methyl t-Butyl Ether	5.0	24
Benzene	1.0	17
Toluene	1.0	1.8
Ethyl Benzene	1.0	4.0
Xylenes (Total)	1.0	4.4
Chromatogram Pattern: Unidentified HC		C6-C12
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	98

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

SEQUOIA ANALYTICAL - ELAP #1210


Peggy Penner
Project Manager





Blaine Technical Services 985 Timothy Drive San Jose, CA 95133	Client Proj. ID: Chevron 9-3864/960912-L1 Sample Descript: C-2 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9609793-02	Sampled: 09/12/96 Received: 09/13/96 Analyzed: 09/19/96 Reported: 09/26/96
--	--	---

QC Batch Number: GC091996BTEX22A
Instrument ID: GCHP22

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	500	1800
Methyl t-Butyl Ether	25	37
Benzene	5.0	26
Toluene	5.0	19
Ethyl Benzene	5.0	17
Xylenes (Total)	5.0	31
Chromatogram Pattern: Unidentified HC		C6-C12
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	98

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

SEQUOIA ANALYTICAL - ELAP #1210

Peggy Penner
Project Manager





Blaine Technical Services 985 Timothy Drive San Jose, CA 95133	Client Proj. ID: Chevron 9-3864/960912-L1 Sample Descript: C-3 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9609793-03	Sampled: 09/12/96 Received: 09/13/96 Analyzed: 09/19/96 Reported: 09/26/96
Attention: Jim Keller		

QC Batch Number: GC091996BTEX07A
Instrument ID: GCHP07

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	500	5800
Methyl t-Butyl Ether	25	61
Benzene	5.0	73
Toluene	5.0	22
Ethyl Benzene	5.0	18
Xylenes (Total)	5.0	17
Chromatogram Pattern: Unidentified HC		C6-C12
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	83

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

SEQUOIA ANALYTICAL - ELAP #1210


Peggy Penner
Project Manager





Blaine Technical Services 985 Timothy Drive San Jose, CA 95133	Client Proj. ID: Chevron 9-3864/960912-L1 Sample Descript: C-4 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9609793-04	Sampled: 09/12/96 Received: 09/13/96 Analyzed: 09/19/96 Reported: 09/26/96
Attention: Jim Keller		

QC Batch Number: GC091996BTEX22A
Instrument ID: GCHP22

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	92

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

SEQUOIA ANALYTICAL - ELAP #1210


Peggy Penner
Project Manager





Blaine Technical Services 985 Timothy Drive San Jose, CA 95133	Client Proj. ID: Chevron 9-3864/960912-L1 Sample Descript: MW-1 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9609793-05	Sampled: 09/12/96 Received: 09/13/96 Analyzed: 09/19/96 Reported: 09/26/96
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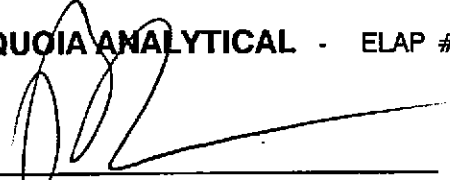
QC Batch Number: GC091996BTEX22A
Instrument ID: GCHP22

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 Technical Services 985 Timothy Drive San Jose, CA 95133	Client Proj. ID: Chevron 9-3864/960912-L1 Sample Descript: MW-2 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9609793-06	Sampled: 09/12/96 Received: 09/13/96 Analyzed: 09/19/96 Reported: 09/26/96
--	---	---

QC Batch Number: GC091996BTEX07A
Instrument ID: gchp07

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	95

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

SEQUOIA ANALYTICAL - ELAP #1210


Peggy Penner
Project Manager





Blaine Technical Services 985 Timothy Drive San Jose, CA 95133	Client Proj. ID: Chevron 9-3864/960912-L1 Sample Descript: MW-3 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9609793-07	Sampled: 09/12/96 Received: 09/13/96 Analyzed: 09/19/96 Reported: 09/26/96
--	---	---

QC Batch Number: GC091996BTEX07A
Instrument ID: GCHP07

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	500	11000
Methyl t-Butyl Ether	25	170
Benzene	5.0	150
Toluene	5.0	N.D.
Ethyl Benzene	5.0	35
Xylenes (Total)	5.0	28
Chromatogram Pattern: Unidentified HC		C6-C12
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	116

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

SEQUOIA ANALYTICAL - ELAP #1210


Peggy Penner
Project Manager





Blaine Technical Services 985 Timothy Drive San Jose, CA 95133	Client Proj. ID: Chevron 9-3864/960912-L1 Sample Descript: MW-4 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9609793-08	Sampled: 09/12/96 Received: 09/13/96 Analyzed: 09/19/96 Reported: 09/26/96
--	---	---

QC Batch Number: GC091996BTEX07A
Instrument ID: GCHP07

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	1000	13000
Methyl t-Butyl Ether	50	240
Benzene	10	150
Toluene	10	N.D.
Ethyl Benzene	10	38
Xylenes (Total)	10	35
Chromatogram Pattern: Unidentified HC		C6-C12
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	125

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

SEQUOIA ANALYTICAL - ELAP #1210


Peggy Penner
Project Manager





Blaine Technical Services 985 Timothy Drive San Jose, CA 95133	Client Proj. ID: Chevron 9-3864/960912-L1 Sample Descript: MW-5 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9609793-09	Sampled: 09/12/96 Received: 09/13/96 Analyzed: 09/19/96 Reported: 09/26/96
Attention: Jim Keller		

QC Batch Number: GC091996BTEX07A
Instrument ID: GCHP07

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	93

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

SEQUOIA ANALYTICAL - ELAP #1210

Peggy Penner
Project Manager





Blaine Technical Services 985 Timothy Drive San Jose, CA 95133	Client Proj. ID: Chevron 9-3864/960912-L1 Sample Descript: TB Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9609793-10	Sampled: 09/12/96 Received: 09/13/96 Analyzed: 09/19/96 Reported: 09/26/96
Attention: Jim Keller		

QC Batch Number: GC091996BTEX07A
Instrument ID: GCHP07

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	92

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

SEQUOIA ANALYTICAL - ELAP #1210


Peggy Penner
Project Manager





Blaine Technical Services
985 Timothy Drive
San Jose, CA 95133
Attention: Jim Keller

Client Proj. ID: Chevron 9-3864/960912-L1
Lab Proj. ID: 9609793

Received: 09/13/96
Reported: 09/26/96

LABORATORY NARRATIVE

TPPH Note: Sample 9609793-01 was diluted 2-fold.
Sample 9609793-02 was diluted 10-fold.
Sample 9609793-03 was diluted 10-fold.
Sample 9609793-07 was diluted 10-fold.
Sample 9609793-08 was diluted 20-fold.

SEQUOIA ANALYTICAL

Peggy Penner
Project Manager





Blaine Tech Services, Inc.
985 Timothy Drive
San Jose, CA 95133
Attention: Jim Keller

Client Project ID: **Chevron 9-3864 / 960912-L1**
Matrix: **Liquid**

Work Order #: **9609793 -01**

Reported: **Sep 30, 1996**

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC092096BTEX07A	GC092096BTEX07A	GC092096BTEX07A	GC092096BTEX07A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030

Analyst:	H. Porter	H. Porter	H. Porter	H. Porter
MS/MSD #:	960954807	960954807	960954807	960954807
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	9/20/96	9/20/96	9/20/96	9/20/96
Analyzed Date:	9/20/96	9/20/96	9/20/96	9/20/96
Instrument I.D.#:	GCHP7	GCHP7	GCHP7	GCHP7
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
Result:	12	10	9.5	29
MS % Recovery:	120	100	95	97
Dup. Result:	11	9.5	9.0	27
MSD % Recov.:	110	95	90	90
RPD:	8.7	5.1	5.4	7.1
RPD Limit:	0-25	0-25	0-25	0-25

LCS #:	BLK092096	BLK092096	BLK092096	BLK092096
Prepared Date:	9/20/96	9/20/96	9/20/96	9/20/96
Analyzed Date:	9/20/96	9/20/96	9/20/96	9/20/96
Instrument I.D.#:	GCHP7	GCHP7	GCHP7	GCHP7
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
LCS Result:	11	9.9	9.4	29
LCS % Recov.:	110	99	94	97

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

SEQUOIA ANALYTICAL

Reggy 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

9609793.BLA <1>





Blaine Tech Services, Inc.
985 Timothy Drive
San Jose, CA 95133
Attention: Jim Keller

Client Project ID: **Chevron 9-3864 / 960912-L1**
Matrix: **Liquid**

Work Order #: **9609793-02, 04-05**

Reported: **Sep 30, 1996**

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC091996BTEX22A	GC091996BTEX22A	GC091996BTEX22A	GC091996BTEX22A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030

Analyst:	H. Porter	H. Porter	H. Porter	H. Porter
MS/MSD #:	960954803	960954803	960954803	960954803
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	9/19/96	9/19/96	9/19/96	9/19/96
Analyzed Date:	9/19/96	9/19/96	9/19/96	9/19/96
Instrument I.D.#:	GCHP22	GCHP22	GCHP22	GCHP22
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
Result:	11	9.8	9.4	29
MS % Recovery:	110	98	94	97
Dup. Result:	12	10	10	31
MSD % Recov.:	120	100	100	103
RPD:	8.7	2.0	6.2	6.7
RPD Limit:	0-25	0-25	0-25	0-25

LCS #:	BLK091996	BLK091996	BLK091996	BLK091996
Prepared Date:	9/19/96	9/19/96	9/19/96	9/19/96
Analyzed Date:	9/19/96	9/19/96	9/19/96	9/19/96
Instrument I.D.#:	GCHP22	GCHP22	GCHP22	GCHP22
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
LCS Result:	10	8.9	8.6	27
LCS % Recov.:	100	89	86	90

MS/MSD	60-140	60-140	60-140	60-140
LCS	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.

** MS= Matrix Spike, MSD= MS Duplicate, RPD= Relative % Difference

9609793.BLA <2>





Blaine Tech Services, Inc.
985 Timothy Drive
San Jose, CA 95133
Attention: Jim Keller

Client Project ID: Chevron 9-3864 / 960912-L1
Matrix: Liquid

Work Order #: 9609793-03, 06-09

Reported: Sep 30, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC091996BTEX07A	GC091996BTEX07A	GC091996BTEX07A	GC091996BTEX07A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030

Analyst:	H. Porter	H. Porter	H. Porter	H. Porter
MS/MSD #:	960954807	960954807	960954807	960954807
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	9/19/96	9/19/96	9/19/96	9/19/96
Analyzed Date:	9/19/96	9/19/96	9/19/96	9/19/96
Instrument I.D.#:	GCHP7	GCHP7	GCHP7	GCHP7
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
Result:	10	8.5	8.1	24
MS % Recovery:	100	85	81	80
Dup. Result:	11	9.4	8.9	27
MSD % Recov.:	110	94	89	90
RPD:	9.5	10	9.4	12
RPD Limit:	0-25	0-25	0-25	0-25

LCS #:	BLK091996	BLK091996	BLK091996	BLK091996
Prepared Date:	9/19/96	9/19/96	9/19/96	9/19/96
Analyzed Date:	9/19/96	9/19/96	9/19/96	9/19/96
Instrument I.D.#:	GCHP7	GCHP7	GCHP7	GCHP7
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
LCS Result:	10	8.6	8.2	25
LCS % Recov.:	100	86	82	83

MS/MSD	60-140	60-140	60-140	60-140
LCS	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.

** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

9609793.BLA <3>



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

Chevron Facility Number 9-3864
Facility Address 5101 Telegraph Ave., Oakland, CA
Consultant Project Number 960912-L1
Consultant Name Blaine Tech Services, Inc.
Address 985 Timothy Dr., San Jose, CA 95133
Project Contact (Name) Jim Keller
(Phone) 408 995-5535 (Fax Number) 408 293-8773

Chevron Contact (Name) Phil Briggs
(Phone) (510) 842-9136
Laboratory Name Sequoia
Laboratory Release Number 2768051
Samples Collected by (Name) LAD GILCHRIST
Collection Date 9-12-96
Signature [Signature]

Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil W = Water A = Air C = Charcoal	Type C = Grab D = Composite D = Discrete	Time	Sample Preservation	Iced (Yes or No)	Analytes To Be Performed										Remarks				
								BTEX + TPH GAS (8020 + 8015)	TPH Diesel (8015)	Oil and Grease (5520)	Purgeable Halocarbons (8010)	Purgeable Aromatics (8020)	Purgeable Organics (8240)	Extractable Organics (8270)	Metals Cd, Cr, Pb, Zn, Ni (CAP or AA)	MIRE						
C-1	1 A-C	3	W		1300	HCL	YES	X														
C-2	2	3			1401			X														
C-3	3	3			1342			X														
C-4	4	3			1321			X														
MW-1	5	3			1040			X														
MW-2	6	3			1110			X														
MW-3	7	3			1230			X														
MW-4	8	3			1158			X														
MW-5	9	3			1139			X														
TB	10 A-B	2			-			X														

9609-793

DO NOT BILL FOR TB-LB

10/03 81/HCH

Relinquished By (Signature) <u>[Signature]</u>	Organization <u>BOS</u>	Date/Time <u>9-13-96 1000</u>	Received By (Signature) <u>[Signature]</u>	Organization <u>SEQUOIA</u>	Date/Time <u>9-13-96 1000</u>	Turn Around Time (Circle Choice) 24 Hrs. 48 Hrs. 5 Days <u>10 Days</u> As Contracted
Relinquished By (Signature) <u>[Signature]</u>	Organization <u>SEQUOIA</u>	Date/Time <u>9-13-96/1408</u>	Received By (Signature) <u>[Signature]</u>	Organization <u>SEQUOIA</u>	Date/Time <u>9-13-96 1408</u>	
Relinquished By (Signature) <u>[Signature]</u>	Organization <u>SEQUOIA</u>	Date/Time <u>9-13-96/1408</u>	Received For Laboratory By (Signature) <u>[Signature]</u>	Organization <u>SEQUOIA</u>	Date/Time <u>9-13-96 1408</u>	

Field Data Sheets

CHEVRON WELL MONITORING DATA SHEET

Project #: 960912-L1	Station #: 9-3864
Sampler: LAD	Date: 9-12-96
Well I.D.: MW-1	Well Diameter: ② 3 4 6 8
Total Well Depth: 23.88	Depth to Water: 13.50
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 Sampling Method: Bailer
 Disposable Bailer Disposable Bailer
 Middleburg Extraction Port
 Electric Submersible Other: _____
 Extraction Pump

Other: _____

<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
1033	65.2	7.8	1200.	2.	
1036	64.6	6.8	920.	5.	
1038	63.6	6.8	860.	6.	

Did well dewater? Yes No Gallons actually evacuated: 6

Sampling Time: 1040 Sampling Date: 9-12-96

Sample I.D.: MW-1 Laboratory: Sequoia GTEL

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

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

CHEVRON WELL MONITORING DATA SHEET

Project #: 960912-L1	Station #: 9-3064
Sampler: LAD	Date: 9-12-96
Well I.D.: MW-2	Well Diameter: ② 3 4 6 8 _____
Total Well Depth: 29.60	Depth to Water: 12.27
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVE Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.16	5"	1.02
3"	0.57	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 Disposable Bailer <input checked="" type="checkbox"/> Extraction Port Other: _____
--	---

2.8	x	3	=	8.4	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
1058	65.4	7.1	510.	3.	
1104	65.2	6.6	480.	6.	
1107	65.0	6.8	430.	9.	

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Gallons actually evacuated: 9.	
Sampling Time: 1110	Sampling Date: 9-12-96	
Sample I.D.: MW-2	Laboratory: Sequoia GTEL	
Analyzed for: TPH-G BTEX MIBE 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 #: 960912-L1	Station #: 9-3864
Sampler: LAD	Date: 9-12-96
Well I.D.: MW-3	Well Diameter: 3 5 6 8
Total Well Depth: 26.88	Depth to Water: 15.94
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: FVC 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 Disposable Bailer <input checked="" type="checkbox"/> Extraction Port Other: _____
--	---

1.8	x	3	=	5.4	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
1219	63.2	6.9	700	2.0	STRONG ODOR
1223	63.2	6.7	740.	4.	LIGHT SHEEN
1227	63.2	6.8	760.	6.	

Did well dewater? Yes No Gallons actually evacuated: **6.**

Sampling Time: **1230** Sampling Date: **9-12-96**

Sample I.D.: **MW-3** Laboratory: **Sequoia** GTEL

Analyzed for: **TPH-D** **BTEX** **MTBE** 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 #: 960912-L1	Station #: 9-3864
Sampler: LAD	Date: 9-12-96
Well I.D.: MW-4	Well Diameter: 2 3 4 6 8
Total Well Depth: 21.45	Depth to Water: 10.57
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 Sampling Method: Bailer

Disposable Bailer Disposable Bailer

Middleburg Extraction Port

Electric Submersible Other: _____

Extraction Pump

Other: _____

<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
1148	66.8	6.8	560.	2.	STRONG ODOR
1152	67.0	6.6	770.	4.	LIGHT SHEEN
1156	66.0	6.7	750.	6.	

Did well dewater? Yes <input checked="" type="checkbox"/> No	Gallons actually evacuated: 6			
Sampling Time: 1158	Sampling Date: 9-12-96			
Sample I.D.: MW-4	Laboratory: Sequoia GTEL			
Analyzed for: PHG BTEX MIB 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 #: 960912-L1	Station #: 9-3864
Sampler: LAD	Date: 9-12-96
Well I.D.: MW-5	Well Diameter: ② 3 4 6 8
Total Well Depth: 21.56	Depth to Water: 14.62
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 Sampling Method: Bailer

Disposable Bailer Disposable Bailer

Middleburg Extraction Port

Electric Submersible Other: _____

Extraction Pump

Other: _____

<u>1.1</u>	x	<u>3</u>	=	<u>3.3</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
1131	64.0	6.8	420.	2.	
1133	63.0	6.7	380.	3.	
1136	63.2	6.8	370.	4.	

Did well dewater? Yes **NO** Gallons actually evacuated: **4**

Sampling Time: **1139** Sampling Date: **9-12-96**

Sample I.D.: **MW-5** Laboratory: **Sequoia** GTEL

Analyzed for: ~~PHG~~ ~~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 #: 960912-L1	Station #: 9-3864
Sampler: LAD	Date: 9-12-96
Well I.D.: C-1	Well Diameter: (2) 3 4 6 8
Total Well Depth: 29-26	Depth to Water: 14.13
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (VC) 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 Disposable Bailer <input checked="" type="checkbox"/> Extraction Port Other: _____
--	---

2.4	x	3	=	7.2	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
1250	64.2	7.1	590.	3.	
1254	64.6	6.8	560.	5.	
1258	65.4	6.8	590.	8.	

Did well dewater? Yes No Gallons actually evacuated: **8**

Sampling Time: **1300** Sampling Date: **9-12-96**

Sample I.D.: **C-1** Laboratory: **Sequoia** GTEL

Analyzed for: **(TPH)** **(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 #: 960912-L1	Station #: 9-12 9-3864
Sampler: LAD	Date: 9-12-96
Well I.D.: C-2	Well Diameter: (2) 3 4 6 8
Total Well Depth: 29.60	Depth to Water: 13.91
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 <input checked="" type="checkbox"/> Middleburg Electric Submersible Extraction Pump Other: _____	Sampling Method: Bailer Disposable Bailer <input checked="" type="checkbox"/> 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
1350	65.0	6.8	700.	3.	ODOR
1354	65.2	7.0	700.	5.	LIGHT SHEEN
1358	67.0	7.0	680.	8.	

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Gallons actually evacuated: 8.
Sampling Time: 1401	Sampling Date: 9-12-96
Sample I.D.: C-2	Laboratory: Sequoia GTEL
Analyzed for: TPH-G <input checked="" type="checkbox"/> BTEX <input checked="" type="checkbox"/> MTBE <input checked="" type="checkbox"/> 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 #: 960912-41	Station #: 9-3864
Sampler: LAD	Date: 9-12-96
Well I.D.: C-3	Well Diameter: (2) 3 4 6 8
Total Well Depth: 29.23	Depth to Water: 14.95
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 <input checked="" type="checkbox"/> Middleburg Electric Submersible Extraction Pump Other: _____	Sampling Method: Bailer Disposable Bailer <input checked="" type="checkbox"/> Extraction Port Other: _____
--	---

2.3	x	3	=	6.9	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
1331	63.6	7.4	650.	3.	STRONG ODOR
1335	64.2	6.8	650.	5.	SHEN
1339	63.0	6.9	630.	7.	

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Gallons actually evacuated: 7.
Sampling Time: 1342	Sampling Date: 9-12-96
Sample I.D.: C-3	Laboratory: Sequoia GTEL
Analyzed for: TPH-G <input checked="" type="checkbox"/> BTEX <input checked="" type="checkbox"/> MTEB <input checked="" type="checkbox"/> 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 #: 960912-L1	Station #: 9-3864
Sampler: LAD	Date: 9-12-96
Well I.D.: C-4	Well Diameter: (2) 3 4 6 8
Total Well Depth: 29.33	Depth to Water: 16.43
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 <input checked="" type="checkbox"/> Middleburg Electric Submersible Extraction Pump Other: _____	Sampling Method: Bailer Disposable Bailer <input checked="" type="checkbox"/> Extraction Port Other: _____
--	---

$\frac{2.1}{1 \text{ Case Volume (Gals.)}} \times \frac{3}{\text{Specified Volumes}} = \frac{6.3}{\text{Calculated Volume}} \text{ Gals.}$
--

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
1312	62.0	7.3	540.	3.	
1316	62.4	7.1	520.	5.	
1319	62.4	7.0	530.	7.	

Did well dewater? Yes No Gallons actually evacuated: 7.

Sampling Time: 1321 Sampling Date: 9-12-96

Sample I.D.: C-4 Laboratory: (Sequofa) GTEL

Analyzed for: (TPH-G) (BTEX) (MTBE) TPH-D Other:

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