Chevron

Chevron

ENVIRONMENTAL
PROTECTION

96 JUL 23 AM 8:59

July 19, 1996

Chevron ~~U.S.A.~~ Products Company
~~2410 Camino Ramon~~
~~San Ramon, CA 94583~~
P.O. Box 5004
San Ramon, CA 94583-0804

Marketing Department
Phone 510 842 9500

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

Re: Former Chevron Service Station #9-1153
3126 Fernside Boulevard, Alameda, California

Dear Ms. Shin:

Enclosed is the Second Quarter Groundwater Monitoring Report for 1996 that was prepared by our consultant Blaine Tech Services, Inc. for the above noted site. Samples were analyzed for TPH-g, BTEX and MTBE constituents. Separate phase hydrocarbons were detected in monitoring well C-1 and 0.396 gallons were removed. Benzene constituents were detected in monitoring wells MW-5, MW-6 and MW-7, however the downgradient wells MW-4, MW-8, MW-9 and MW-10 were non-detect for benzene.

Depth to the ground water varies from 1.65 feet to 4.30 feet below grade and the direction of flow is to the southeast. The consultant is schedule to remove any separate phase hydrocarbons that accumulates in monitoring well C-1 on a weekly basis.

I do not have a reason for the increase of the benzene constituents in the wells at this time, it may be an one time anomaly and the next quarterly sampling may give a better understanding of what is occurring at the site. 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 Manager

Enclosure

cc. Ms. Bette Owen, Chevron

Mr. Larry Bolton, State Farm Insurance
2509 Santa Clara Avenue
Alameda, CA 94501

BLAINE
TECH SERVICES INC.

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

June 7, 1996

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

2nd Quarter 1996 Monitoring at 9-1153

Second Quarter 1996 Groundwater Monitoring at
Chevron Service Station Number 9-1153
3126 Fernside Blvd.
Alameda, CA

Monitoring Performed on April 24, 1996

Groundwater Sampling Report **960424-H-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 Chevron's Richmond Refinery 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.

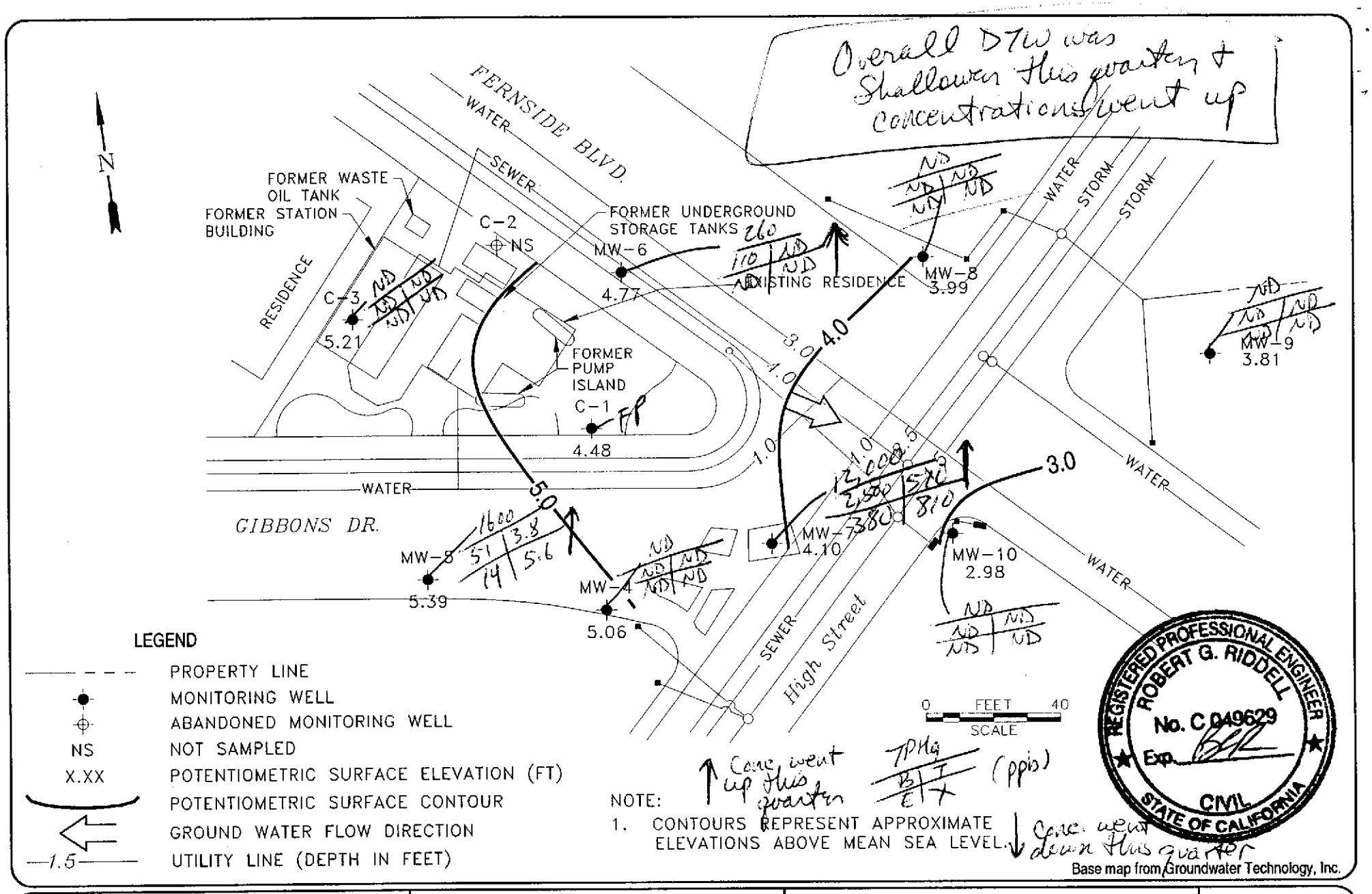
Yours truly,

James Keller
Vice President

JPK/cg

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

Professional Engineering Appendix



CAMBRIA
Environmental Technology, Inc.

Former Chevron Station 9-1153
3126 Fernside Boulevard
Alameda, California

\CHEVRON\9-1153\1153-QM.DWG

Ground Water Elevation

April 24, 1996

FIGURE
1

Table of
Well Data and
Analytical Results

Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet. Volumetric Measurements are in gallons. Analytical results are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	SPH Thickness	SPH Removed	Total SPH Removed	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	MTBE	Other
C-1														
08/18/86	--	--	4.10	--	--	--	--	--	--	--	--	--	--	--
09/04/86	--	--	--	--	--	--	--	15,000	760	820	1500	--	--	--
07/22/87	--	--	--	--	--	--	--	1100	250	7.0	40	--	--	--
05/03/89	--	--	4.46	--	--	--	--	6900	3800	190	229	--	--	--
12/04/89	--	--	4.16	--	--	--	--	17,000	8000	490	470	--	--	--
02/14/90	--	--	3.64	--	--	--	--	19,000	12,000	990	1050	--	--	--
03/07/90	--	--	3.36	--	--	--	--	--	4260	261	430	--	--	--
09/06/91	--	--	4.43	--	--	--	--	21,000	10,000	100	240	560	--	--
12/15/91	--	--	4.78	--	--	--	--	20,000	4900	43	110	330	--	--
03/03/92	--	--	2.39	--	--	--	--	13,000	5800	730	340	1200	--	--
06/04/92	4.08	0.00	4.08	--	--	--	--	34,000	9400	350	290	1200	--	--
10/13/92	4.08	-0.67	4.75	--	--	--	--	24,000	11,000	98	280	530	--	--
01/11/93	4.08	1.82	2.26	Sheen	--	--	--	7100	1500	130	150	700	--	--
04/14/93	4.08	1.18	2.90	Sheen	--	--	--	29,000	7300	4000	640	2300	--	--
07/13/93	4.08	0.11	3.97	Sheen	--	--	--	650,000	27,000	18,000	6300	29,000	--	--
10/19/93	4.08	-0.42	4.50	--	--	--	--	40,000	12,000	730	1100	3600	--	--
11/30/93	7.50	3.23	4.27	--	--	--	--	--	--	--	--	--	--	--
01/27/94	7.50	4.15	3.35	--	--	--	--	36,000	8600	220	670	1900	--	--
04/07/94	7.50	4.08	3.42	--	--	--	--	53,000	12,000	3500	480	3300	--	--
07/01/94	7.50	3.54	3.96	--	--	--	--	65,000	19,000	5900	1000	9000	--	--
10/05/94	7.50	3.11	4.39	--	--	--	--	160,000	23,000	12,000	2200	11,000	--	--
01/12/95	7.50	6.38	1.52	0.50	0.264	0.264	--	--	--	--	--	--	--	--
04/26/95	7.50	4.86	4.40	2.20	1.321	1.585	--	--	--	--	--	--	--	--
07/12/95	7.50	4.10	4.85	1.81	0.661	2.246	--	--	--	--	--	--	--	--
10/30/95	7.50	3.13	5.67	1.63	0.528	2.774	--	--	--	--	--	--	--	--

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Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet. Volumetric Measurements are in gallons. Analytical results are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	SPH Thickness	SPH Removed	Total SPH Removed	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	MTBE	Other
C-1 (CONT'D)														
01/04/96	7.50	3.68	3.92	0.12	0.264	3.038	--	--	--	--	--	--	--	--
01/10/96	7.50	4.12	3.48	0.13	0.066	3.104	--	--	--	--	--	--	--	--
01/17/96	7.50	4.12	3.40	0.02	0.396	3.500	--	--	--	--	--	--	--	--
01/22/96	7.50	4.60	2.90	0.00	0.000	3.500	--	82,000	18,000	4400	1400	5200	<1000	--
02/23/96	7.50	4.89	4.10	1.86	0.661	4.161	--	--	--	--	--	--	--	--
02/28/96	7.50	--	--	>0.83	1.250	5.411	--	--	--	--	--	--	--	--
03/08/96	7.50	6.10	2.86	1.83	0.264	5.675	--	--	--	--	--	--	--	--
03/08/96	7.50	5.49	2.30	0.36	0.528	6.203	--	--	--	--	--	--	--	--
03/08/96	7.50	5.46	2.33	0.36	0.264	6.467	--	--	--	--	--	--	--	--
03/08/96	7.50	5.40	2.28	0.22	0.528	6.995	--	--	--	--	--	--	--	--
03/26/96	7.50	4.56	3.96	1.28	0.396	7.391	--	--	--	--	--	--	--	--
04/11/96	7.50	3.29	5.61	1.75	0.528	7.919	--	--	--	--	--	--	--	--
04/19/96	7.50	4.44	3.09	0.04	0.396	8.315	--	--	--	--	--	--	--	--
04/24/96	7.50	4.48	3.04	0.03	0.396	8.711	--	--	--	--	--	--	--	--

Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet. Volumetric Measurements are in gallons. Analytical results are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	SPH Thickness	SPH Removed	Total SPH Removed	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	MTBE	Other
C-2														
08/18/86	--	--	--	--	--	--	--	--	--	--	--	--	--	--
09/04/86	--	--	--	--	--	--	--	1100	49	18	84	--	--	--
07/22/87	--	--	--	--	--	--	--	<50	1.8	<1.0	<4.0	--	--	--
05/03/89	--	--	--	--	--	--	Abandoned	--	--	--	--	--	--	--
C-3														
08/18/86	--	--	4.00	--	--	--	--	--	--	--	--	--	--	--
09/04/86	--	--	--	--	--	--	--	50	3.2	5.4	5.8	--	--	--
07/22/87	--	--	--	--	--	--	--	<50	<0.5	<1.0	<4.0	--	--	--
05/03/89	--	--	4.15	--	--	--	--	<50	<0.5	<1.0	<2.0	--	--	--
12/04/89	--	--	4.24	--	--	--	--	<250	<0.5	<0.5	<0.5	--	--	--
02/14/90	--	--	3.57	--	--	--	--	<50	<0.5	<0.5	<0.5	--	--	--
03/07/90	--	--	3.31	--	--	--	--	--	<5.0	<5.0	<5.0	--	--	--
09/06/91	--	--	4.59	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
12/15/91	--	--	4.84	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
03/03/92	--	--	2.17	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
06/04/92	4.41	0.40	4.01	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
10/13/92	4.41	-0.38	4.79	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
01/11/93	4.41	2.40	2.01	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
04/14/93	4.41	1.65	2.76	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
07/13/93	4.41	0.45	3.96	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--	--
10/19/93	4.41	-0.12	4.53	--	--	--	--	66	12	1.4	1.0	8.4	--	--
11/30/93	7.83	3.79	4.04	--	--	--	--	--	--	--	--	--	--	--
01/27/94	7.83	4.66	3.17	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
04/07/94	7.83	4.63	3.20	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
07/01/94	7.83	3.84	3.99	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
10/05/94	7.83	3.29	4.54	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
01/12/95	7.83	7.03	0.80	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
05/02/95	7.83	5.68	2.15	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
07/12/95	7.83	4.41	3.42	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
10/30/95	7.83	3.37	4.46	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
01/22/96	7.83	6.10	1.73	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
04/24/96	7.83	5.21	2.62	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--

Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet. Volumetric Measurements are in gallons. Analytical results are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	SPH Thickness	SPH Removed	Total SPH Removed	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	MTBE	Other
MW-4														
06/04/92	3.58	-0.05	3.63	--	--	--	--	<50	0.8	<0.5	<0.5	<0.5	--	--
10/13/92	3.58	--	--	--	--	--	--	--	--	--	--	--	--	--
01/11/93	3.58	1.69	1.89	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
04/14/93	3.58	1.38	2.20	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--	--
07/13/93	3.58	0.07	3.51	--	--	--	--	54	2.6	1.6	<0.5	<1.5	--	--
10/19/93	3.58	-0.64	4.22	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
11/30/93	7.01	3.00	4.01	--	--	--	--	--	--	--	--	--	--	--
01/27/94	7.01	4.12	2.89	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
04/07/94	7.01	3.95	3.06	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
07/01/94	7.01	3.42	3.59	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
10/05/94	7.01	2.68	4.33	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
01/12/95	7.01	5.81	1.20	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
04/26/95	7.01	5.86	1.15	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
07/12/95	7.01	4.29	2.72	--	--	--	--	<50	6.4	<0.5	0.63	0.72	--	--
10/30/95	7.01	2.93	4.08	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
01/22/96	7.01	5.25	1.76	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
04/24/96	7.01	5.06	1.95	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--

Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet. Volumetric Measurements are in gallons. Analytical results are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	SPH Thickness	SPH Removed	Total SPH Removed	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	MTBE	Other
MW-5														
06/04/92	3.61	0.36	3.25	--	--	--	--	560	110	0.5	37	2.2	--	--
10/13/92	3.61	-0.59	4.20	--	--	--	--	1200	150	<2.5	84	8.6	--	--
01/11/93	3.61	2.31	1.30	--	--	--	--	1300	48	1.0	83	33	--	--
04/14/93	3.61	2.41	1.20	--	--	--	--	2600	240	6.1	250	170	--	--
07/13/93	3.61	0.46	3.15	--	--	--	--	1700	260	7.8	160	100	--	--
10/19/93	3.61	-0.21	3.82	--	--	--	--	1900	190	3.3	200	93	--	--
11/30/93	7.04	3.48	3.56	--	--	--	--	--	--	--	--	--	--	--
01/27/94	7.04	4.62	2.42	--	--	--	--	4000	100	12	210	110	--	--
04/07/94	7.04	4.71	2.33	--	--	--	--	2600	170	10	150	88	--	--
07/01/94	7.04	3.86	3.18	--	--	--	--	2300	350	9.1	110	76	--	--
10/05/94	7.04	3.06	3.98	--	--	--	--	11,000	840	150	130	340	--	--
01/12/95	7.04	6.64	0.40	--	--	--	--	2300	82	<2.5	54	20	--	--
04/26/95	7.04	6.54	0.50	--	--	--	--	1600	52	<5.0	36	61	--	--
07/12/95	7.04	4.63	2.41	--	--	--	--	2800	150	<5.0	34	38	--	--
10/30/95	7.04	3.26	3.78	--	--	--	--	1100	81	<5.0	<5.0	<5.0	35	--
01/22/96	7.04	6.26	0.78	--	--	--	--	880	7.3	<2.0	15	4.8	<10	--
04/24/96	7.04	5.39	1.65	--	--	--	--	1600	51	3.8	14	5.6	56	--

Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet. Volumetric Measurements are in gallons. Analytical results are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	SPH Thickness	SPH Removed	Total SPH Removed	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	MTBE	Other
MW-6														
06/04/92	3.85	-0.04	3.89	--	--	--	--	210	54	<0.5	1.9	2.4	--	--
10/13/92	3.85	-0.71	4.56	--	--	--	--	10,000	5300	<10	70	<10	--	--
01/11/93	3.85	1.49	2.36	--	--	--	--	100	50	<0.5	<0.5	<0.5	--	--
04/14/93	3.85	0.70	3.15	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
07/13/93	3.85	-0.09	3.94	--	--	--	--	<50	1.8	<0.5	<0.5	<1.5	--	--
10/19/93	3.85	-0.55	4.40	--	--	--	--	320	150	<0.5	0.8	<0.5	--	--
11/30/93	7.27	3.11	4.16	--	--	--	--	--	--	--	--	--	--	--
01/27/94	7.27	3.94	3.33	--	--	--	--	120	45	<0.5	<0.5	<0.5	--	--
04/07/94	7.27	3.84	3.43	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
07/01/94	7.27	3.33	3.94	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
10/05/94	7.27	2.89	4.38	--	--	--	--	8300	2400	160	42	190	--	--
01/12/95	7.27	4.84	2.43	--	--	--	--	<50	12	<0.5	<0.5	<0.5	--	ND *
04/26/95	7.27	5.21	2.06	--	--	--	--	<50	5.5	0.67	<0.5	1.3	--	--
07/12/95	7.27	3.74	3.53	--	--	--	--	65	27	<0.5	<0.5	<0.5	--	--
10/30/95	7.27	2.93	4.34	--	--	--	--	<50	3.9	<0.5	<0.5	<0.5	<2.5	--
01/22/96	7.27	4.66	2.61	--	--	--	--	<50	0.93	<0.5	<0.5	<0.5	<2.5	--
04/24/96	7.27	4.77	2.50	--	--	--	--	260	110	<1.2	<1.2	<1.2	<6.2	--

higher detection limits this qtr. why?

* EPA 8010

Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet. Volumetric Measurements are in gallons. Analytical results are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	SPH Thickness	SPH Removed	Total SPH Removed	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	MTBE	Other
MW-7														
11/30/93	8.22	2.89	5.33	--	--	--	--	480	110	41	4.4	38	--	--
01/27/94	8.22	3.72	4.50	--	--	--	--	120	21	1.1	2.2	4.8	--	--
04/07/94	8.22	3.60	4.62	--	--	--	--	2600	630	39	56	94	--	--
07/01/94	8.22	3.09	5.13	--	--	--	--	2200	770	42	<10	92	--	--
10/05/94	8.22	2.61	5.61	--	--	--	--	15,000	3300	90	130	320	--	--
01/12/95	8.22	5.39	2.83	--	--	--	--	340	57	<1.3	18	6.4	--	--
04/26/95	8.22	5.87	2.35	--	--	--	--	15,000	3700	210	520	800	--	--
07/12/95	8.22	3.56	4.66	--	--	--	--	7700	1800	59	130	370	--	--
10/30/95	8.22	2.74	5.48	--	--	--	--	770	260	<5.0	33	48	25	--
01/22/96	8.22	4.88	3.34	--	--	--	--	290	63	<1.0	6.4	5.7	<5.0	--
04/24/96	8.22	4.10	4.12	--	--	--	--	12,000	2500	510	380	810	<125	--
MW-8														
10/17/95	6.96	2.56	4.40	--	--	--	--	--	--	--	--	--	--	--
10/30/95	6.96	2.52	4.44	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
01/22/96	6.96	4.72	2.24	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
04/24/96	6.96	3.99	2.97	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
MW-9														
10/17/95	7.21	2.41	4.80	--	--	--	--	--	--	--	--	--	--	--
10/30/95	7.21	2.24	4.97	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
01/22/96	7.21	3.81	3.40	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
04/24/96	7.21	3.03	4.18	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
MW-10														
10/17/95	7.28	2.23	5.05	--	--	--	--	--	--	--	--	--	--	--
10/30/95	7.28	2.17	5.11	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	5.1	--
01/22/96	7.28	3.25	4.03	--	--	--	--	<50	<0.5	<0.5	<0.5	0.70	17	--
04/24/96	7.28	2.98	4.30	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	12	--

high detection limit

Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet. Volumetric Measurements are in gallons. Analytical results are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	SPH Thickness	SPH Removed	Total SPH Removed	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	MTBE	Other
TMW-1														
11/11/93	--	--	--	--	--	--	--	<1.0	<0.5	<0.5	<0.5	<0.5	--	--
TRIP BLANK														
02/14/90	--	--	--	--	--	--	--	<50	<0.5	1.1	<0.5	<0.5	--	--
09/06/91	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
12/15/91	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
03/03/92	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
06/04/92	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
10/13/92	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
01/11/93	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
04/14/93	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
07/13/93	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
10/19/93	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--	--
01/27/94	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
04/07/94	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
07/01/94	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
10/05/94	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
01/12/95	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
04/26/95	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
07/12/95	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
10/30/95	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
01/22/96	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
04/24/96	--	--	--	--	--	--	--	<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
SPH = Separate-Phase Hydrocarbons
MTBE = Methyl t-butyl ether

Analytical Appendix

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Blaine Technical Services	Client Proj. ID: Chevron 9-1153/960424-H1	Sampled: 04/24/96
985 Timothy Drive	Sample Descript: C-3	Received: 04/25/96
San Jose, CA 95133	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 05/01/96
Attention: Jim Keller	Lab Number: 9604H98-01	Reported: 05/06/96

QC Batch Number: GC050196BTEX06A
Instrument ID: GCHP06

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	103

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

SEQUOIA ANALYTICAL - ELAP #1210

Peggy Penner
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Blaine Technical Services	Client Proj. ID: Chevron 9-1153/960424-H1	Sampled: 04/24/96
985 Timothy Drive	Sample Descript: MW-4	Received: 04/25/96
San Jose, CA 95133	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 05/01/96
Attention: Jim Keller	Lab Number: 9604H98-02	Reported: 05/06/96

QC Batch Number: GC050196BTEX06A
Instrument ID: GCHP06

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	89

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

SEQUOIA ANALYTICAL - ELAP #1210

Peggy Penner
Project Manager

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Blaine Technical Services	Client Proj. ID: Chevron 9-1153/960424-H1	Sampled: 04/24/96
985 Timothy Drive	Sample Descript: MW-5	Received: 04/25/96
San Jose, CA 95133	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 05/01/96
Attention: Jim Keller	Lab Number: 9604H98-03	Reported: 05/06/96

QC Batch Number: GC050196BTEX06A
Instrument ID: GCHP06

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	250	1600
Methyl t-Butyl Ether	12	56
Benzene	2.5	51
Toluene	2.5	3.8
Ethyl Benzene	2.5	14
Xylenes (Total)	2.5	5.6
Chromatogram Pattern:		Gas

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	143 Q

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

SEQUOIA ANALYTICAL - ELAP #1210

Peggy Penner
Project Manager

Sequoia Analytical

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Blaine Technical Services
985 Timothy Drive
San Jose, CA 95133

Attention: Jim Keller

Client Proj. ID: Chevron 9-1153/960424-H1
Sample Descript: MW-8
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9604H98-04

Sampled: 04/24/96
Received: 04/25/96

Analyzed: 05/01/96
Reported: 05/06/96

QC Batch Number: GC050196BTEX06A
Instrument ID: GCHP06

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

Sequoia Analytical

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Blaine Technical Services
985 Timothy Drive
San Jose, CA 95133

Attention: Jim Keller

Client Proj. ID: Chevron 9-1153/960424-H1
Sample Descript: MW-9
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9604H98-05

Sampled: 04/24/96
Received: 04/25/96

Analyzed: 05/01/96
Reported: 05/06/96

QC Batch Number: GC050196BTEX06A
Instrument ID: GCHP06

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	99

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

SEQUOIA ANALYTICAL - ELAP #1210

Peggy Penner
Project Manager

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Blaine Technical Services
985 Timothy Drive
San Jose, CA 95133

Attention: Jim Keller

Client Proj. ID: Chevron 9-1153/960424-H1
Sample Descript: MW-10
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9604H98-06

Sampled: 04/24/96
Received: 04/25/96

Analyzed: 05/01/96
Reported: 05/06/96

QC Batch Number: GC050196BTEX06A
Instrument ID: GCHP06

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**	**12**
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	91

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

SEQUOIA ANALYTICAL - ELAP #1210

Peggy Penner
Project Manager

Sequoia Analytical

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Blaine Technical Services	Client Proj. ID: Chevron 9-1153/960424-H1	Sampled: 04/24/96
985 Timothy Drive	Sample Descript: TB	Received: 04/25/96
San Jose, CA 95133	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 05/01/96
Attention: Jim Keller	Lab Number: 9604H98-07	Reported: 05/06/96

QC Batch Number: GC050196BTEX06A
Instrument ID: GCHP06

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	99

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

SEQUOIA ANALYTICAL - ELAP #1210

Peggy Penner
Project Manager

Sequoia Analytical

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

Client Proj. ID: Chevron 9-1153/960424-H1

Lab Proj. ID: 9604H98

Received: 04/25/96

Reported: 05/06/96

LABORATORY NARRATIVE

TPPH Note: Sample 9604H98-03 was diluted 5-fold.

SEQUOIA ANALYTICAL

Peggy Penner
Project Manager

Sequoia Analytical

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

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

Client Project ID: Chevron 9-1153 / 960424-H1
Matrix: Liquid
Work Order #: 9604H98 -01-07
Reported: May 8, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC050196BTEX06A	GC050196BTEX06A	GC050196BTEX06A	GC050196BTEX06A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	M. Otte	M. Otte	M. Otte	M. Otte
MS/MSD #:	9604E1202	9604E1202	9604E1202	9604E1202
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	5/1/96	5/1/96	5/1/96	5/1/96
Analyzed Date:	5/1/96	5/1/96	5/1/96	5/1/96
Instrument I.D.#:	GCHP6	GCHP6	GCHP6	GCHP6
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
Result:	12	12	13	37
MS % Recovery:	120	120	130	123
Dup. Result:	11	11	12	36
MSD % Recov.:	110	110	120	120
RPD:	8.7	8.7	8.0	2.7
RPD Limit:	0-50	0-50	0-50	0-50

LCS #:	BLK050196	BLK050196	BLK050196	BLK050196
Prepared Date:	5/1/96	5/1/96	5/1/96	5/1/96
Analyzed Date:	5/1/96	5/1/96	5/1/96	5/1/96
Instrument I.D.#:	GCHP6	GCHP6	GCHP6	GCHP6
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
LCS Result:	12	12	12	35
LCS % Recov.:	120	120	120	117
MS/MSD Control Limits	60-140	60-140	60-140	60-140
LCS Control Limits	70-130	70-130	70-130	70-130

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

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 9-1153
Facility Address 3126 Fernside Blvd., Alameda, CA
Consultant Project Number 960424-H1
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 2172740
Samples Collected by (Name) TROY N. HORNER
Collection Date 4/24/96
Signature Troy N. Horner

Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil A = Air W = Water C = Charcoal	Type G = Grab C = Composite D = Discrete	Time	Sample Preservation	Iced (Yes or No)	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 (ICAP or AA)	MTBE				
								Analyses To Be Performed												
C-3	1	3	W		1205	HCL	Y	X								X				
MW-4	2	3	W		1235	HCL	Y	X								X				
MW-5	3	3	W		1340	HCL	Y	X								X				
MW-8	4	3	W		1050	HCL	Y	X								X				
MW-9	5	3	W		1010	HCL	Y	X								X				
MW-10	6	3	W		950	HCL	Y	X								X				
TD	7	2	W			HCL	Y	X								X				

DO NOT BILL FOR TB-LB

8604498

Remarks

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
[signature]	BTS	4/25 930	[signature]	Sequoia	4/25/96 9:30
Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
[signature]		4/25/96			
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature)		Date/Time

Turn Around Time (Circle Choice)
24 Hrs.
48 Hrs.
5 Days
10 Days
No Estimated

Sequoia Analytical

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Blaine Technical Services	Client Proj. ID: Chevron 9-1153/960424-H1	Sampled: 04/24/96
985 Timothy Drive	Sample Descript: MW-6NP	Received: 04/25/96
San Jose, CA 95133	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 05/01/96
Attention: Jim Keller	Lab Number: 9604H91-01	Reported: 05/03/96

QC Batch Number: GC050196BTEX17A
Instrument ID: GCHP17

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	84

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

SEQUOIA ANALYTICAL - ELAP #1210

Peggy Penner
Project Manager

Sequoia Analytical

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Blaine Technical Services	Client Proj. ID: Chevron 9-1153/960424-H1	Sampled: 04/24/96
985 Timothy Drive	Sample Descript: MW-6PP	Received: 04/25/96
San Jose, CA 95133	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 05/01/96
Attention: Jim Keller	Lab Number: 9604H91-02	Reported: 05/03/96

QC Batch Number: GC050196BTEX17A
Instrument ID: GCHP17

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	**125**	**260**
Methyl t-Butyl Ether	6.2	N.D.
Benzene	**1.2**	**110**
Toluene	1.2	N.D.
Ethyl Benzene	1.2	N.D.
Xylenes (Total)	1.2	N.D.
Chromatogram Pattern:		
Discrete Peak		....

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

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
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Blaine Technical Services	Client Proj. ID: Chevron 9-1153/960424-H1	Sampled: 04/24/96
985 Timothy Drive	Sample Descript: MW-7NP	Received: 04/25/96
San Jose, CA 95133	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 04/30/96
Attention: Jim Keller	Lab Number: 9604H91-03	Reported: 05/03/96

QC Batch Number: GC043096BTEX03A
Instrument ID: GCHP03

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	**2500**	**15000**
Methyl t-Butyl Ether	125	N.D.
Benzene	**25**	**3800**
Toluene	**25**	**550**
Ethyl Benzene	**25**	**550**
Xylenes (Total)	**25**	**1100**
Chromatogram Pattern:		**Gas**

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

Sequoia Analytical

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Blaine Technical Services	Client Proj. ID: Chevron 9-1153/960424-H1	Sampled: 04/24/96
985 Timothy Drive	Sample Descript: MW-7NPD	Received: 04/25/96
San Jose, CA 95133	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 04/30/96
Attention: Jim Keller	Lab Number: 9604H91-04	Reported: 05/03/96

QC Batch Number: GC043096BTEX03A
Instrument ID: GCHP03

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	**50**	**20000**
Methyl t-Butyl Ether	2.5	N.D.
Benzene	**0.50**	**4100**
Toluene	**0.50**	**920**
Ethyl Benzene	**0.50**	**630**
Xylenes (Total)	**0.50**	**1400**
Chromatogram Pattern:		**Gas**

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

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Blaine Technical Services	Client Proj. ID: Chevron 9-1153/960424-H1	Sampled: 04/24/96
985 Timothy Drive	Sample Descript: MW-7PP	Received: 04/25/96
San Jose, CA 95133	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 04/30/96
Attention: Jim Keller	Lab Number: 9604H91-05	Reported: 05/03/96

QC Batch Number: GC043096BTEX03A
Instrument ID: GCHP03

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	**2500**	**12000**
Methyl t-Butyl Ether	125	N.D.
Benzene	**25**	**2500**
Toluene	**25**	**510**
Ethyl Benzene	**25**	**380**
Xylenes (Total)	**25**	**810**
Chromatogram Pattern:		**Gas**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	104

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

SEQUOIA ANALYTICAL - ELAP #1210

Peggy Penner
Project Manager

Sequoia Analytical

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

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

Client Proj. ID: Chevron 9-1153/960424-H1

Lab Proj. ID: 9604H91

Received: 04/25/96

Reported: 05/03/96

LABORATORY NARRATIVE

TPPH Note: Sample 9604H91-02 was diluted 2.5-fold.
Sample 9604H91-03 was diluted 50-fold.
Sample 9604H91-04 was diluted 100-fold.
Sample 9604H91-05 was diluted 50-fold.

SEQUOIA ANALYTICAL

Peggy Penner
Project Manager

Sequoia Analytical

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

Client Project ID: Chevron 9-1153/ 960424-H1
Matrix: Liquid
Work Order #: 9604H91 -01-02

Reported: May 3, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC050196BTEX17A	GC050196BTEX17A	GC050196BTEX17A	GC050196BTEX17A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	J. Woo	J. Woo	J. Woo	J. Woo
MS/MSD #:	9604D0303	9604D0303	9604D0303	9604D0303
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	5/1/96	5/1/96	5/1/96	5/1/96
Analyzed Date:	5/1/96	5/1/96	5/1/96	5/1/96
Instrument I.D.#:	GCHP17	GCHP17	GCHP17	GCHP17
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
Result:	10	10	10	30
MS % Recovery:	100	100	100	100
Dup. Result:	9.8	9.7	9.7	29
MSD % Recov.:	98	97	97	97
RPD:	2.0	3.0	3.0	3.4
RPD Limit:	0-50	0-50	0-50	0-50
LCS #:	BLK050196	BLK050196	BLK050196	BLK050196
Prepared Date:	5/1/96	5/1/96	5/1/96	5/1/96
Analyzed Date:	5/1/96	5/1/96	5/1/96	5/1/96
Instrument I.D.#:	GCHP17	GCHP17	GCHP17	GCHP17
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
LCS Result:	10	10	10	31
LCS % Recov.:	100	100	100	103
MS/MSD LCS Control Limits	70-130	70-130	70-130	70-130

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

Sequoia Analytical

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

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

Client Project ID: Chevron 9-1153/ 960424-H1
Matrix: Liquid
Work Order #: 9604H91-03-05

Reported: May 3, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC043096BTEX03A	GC043096BTEX03A	GC043096BTEX03A	GC043096BTEX03A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	J. Woo	J. Woo	J. Woo	J. Woo
MS/MSD #:	9604D0302	9604D0302	9604D0302	9604D0302
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	4/30/96	4/30/96	4/30/96	4/30/96
Analyzed Date:	4/30/96	4/30/96	4/30/96	4/30/96
Instrument I.D.#:	GCHP3	GCHP3	GCHP3	GCHP3
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
Result:	9.7	9.7	9.6	29
MS % Recovery:	97	97	96	97
Dup. Result:	9.7	9.6	9.6	28
MSD % Recov.:	97	96	96	93
RPD:	0.0	1.0	0.0	3.5
RPD Limit:	0-50	0-50	0-50	0-50
LCS #:	BLK043096	BLK043096	BLK043096	BLK043096
Prepared Date:	4/30/96	4/30/96	4/30/96	4/30/96
Analyzed Date:	4/30/96	4/30/96	4/30/96	4/30/96
Instrument I.D.#:	GCHP3	GCHP3	GCHP3	GCHP3
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
LCS Result:	9.7	9.6	9.7	29
LCS % Recov.:	97	96	97	97
MS/MSD LCS Control Limits	70-130	70-130	70-130	70-130

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

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 9-1153
Facility Address 3126 Fernside Blvd., Alameda, CA
Consultant Project Number 960424-H1
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 2172740
Samples Collected by (Name) TROY M. HORNER
Collection Date 4/24/96
Signature Troy M. Horner

960491

Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil W = Water A = Air C = Charcoal	Type G = Grab C = Composite D = Discrete	Time	Sample Preservation	Iced (Yes or No)	Analyses To Be Performed: 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 (ICAP or AA)	MTBE					Remarks
MW-6 NP	1	3	W		1058	HCL	Y	X								X					
MW-6 PP	2	3	W		1115	HCL	Y	X								X					
MW-7 NP	3	3	W		1300	HCL	Y	X								X					
MW-7 NPD	4	3	W		1300	HCL	Y	X								X					
MW-7 PP	5	3	W		1320	HCL	Y	X								X					

DO NOT BILL FOR TB-LB

Remarks

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
Troy M. Horner	BTS	4/24 930		Sequoia	4/25/96 9:30
Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
		4/25/96			
By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature)		Date/Time

Turn Around Time (Circle Choice)
24 Hrs. 7 DAY
48 Hrs. WSPA
5 Days
10 Days TAT
As Contracted

Field
Data
Sheets

WELL GAUGING DATA

Project # 960424-H1 Date 4/24/96 Client CHEVRON 9-1153

Site 3126 FERNSIDE BLVD ALAMEDA CA

Well I.D.	Well Size (in.)	Sheen/ Odor	Depth to Immiscible Liquid (feet)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to Water (feet)	Depth to Well Bottom (feet)	Survey Point: TOB or TOC
C-1	3	ODOR EMITTED SKIMMER FAILED	3.01	.03	1500ml FF	3.04		TOC
C-3	3					2.62	19.30	
MW-4	2					1.95	13.30	
MW-5	2					1.65	13.12	
MW-6	2					2.50	14.10	
MW-7	2					4.12	14.49	
MW-8	2					2.97	9.12	
MW-9	2					4.18	8.55	
MW-10	2					4.30	8.92	

CHEVRON WELL MONITORING DATA SHEET

Project #: 960424-H1	Station #: 9-1153
Sampler: TNH	Start Date: 4/24/96
Well I.D.: C-1	Well Diameter: (circle one) 2 (3) 4 6 ____
Total Well Depth: Before ——— After	Depth to Water: Before 3.04 After
Depth to Free Product: 3.01	Thickness of Free Product (feet): .03
Measurements referenced to: (PVC) Grade Other:	

Well Diameter	VCF	Well Diameter	VCF
1"	0.04	6"	1.47
2"	0.16	8"	2.61
3"	0.37	10"	4.08
4"	0.65	12"	5.87
5"	1.02	16"	10.43

_____	x	_____	=	_____
1 Case Volume		Specified Volumes		gallons

Purging: Bailer
Disposable Bailer
Middleburg
Electric Submersible
Extraction Pump
Other_____

Sampling: Bailer
Disposable Bailer
Extraction Port
Other_____

TIME	TEMP. (F)	pH	COND.	TURBIDITY:	VOLUME REMOVED:	OBSERVATIONS:
	EMPTIED SKIMMER					
	BAILED FP					

Did Well Dewater? If yes, gals. Gallons Actually Evacuated:

Sampling Time: 1400	Sampling Date: 4/24/96
Sample I.D.: C-1	Laboratory: ~~SEQ~~ CHEVRON RESEARCH
Analyzed for: (TPH-G) (BTEX) TPH-D OTHER: (Circle) MTBE	
Duplicate I.D.:	Cleaning Blank I.D.:
Analyzed for: TPH-G BTEX TPH-D OTHER: (Circle)	

CHEVRON WELL MONITORING DATA SHEET

Project #: 960424-H1	Station #: 9-1153
Sampler: TNH	Start Date: 4/24/96
Well I.D.: C-3	Well Diameter: (circle one) 2 (3) 4 6 ___
Total Well Depth: Before 19.30 After	Depth to Water: Before 2.62 After
Depth to Free Product:	Thickness of Free Product (feet):
Measurements referenced to: (PVC) Grade Other:	

Well Diameter	VCF	Well Diameter	VCF
1"	0.04	6"	1.47
2"	0.16	8"	2.61
3"	0.37	10"	4.08
4"	0.65	12"	5.87
5"	1.02	16"	10.43

1 Case Volume	x	Specified Volumes	=	gallons
6.2	x	3	=	18.6

Purging: Bailer
Disposable Bailer ✓
Middleburg
~~Electric Submersible~~
Extraction Pump
Other ___

Sampling: Bailer
Disposable Bailer ✓
Extraction Port
Other ___

TIME	TEMP. (F)	pH	COND.	TURBIDITY:	VOLUME REMOVED:	OBSERVATIONS:
1135	66.2	7.1	310	—	7	
1146	66.0	7.2	300	—	14	
1159	66.2	7.2	330	—	19	

Did Well Dewater? NO If yes, gals. Gallons Actually Evacuated: 19

Sampling Time: 1205 Sampling Date: 4/24/96

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

Analyzed for: (TPH-G) (BTEX) TPH-D OTHER:
(Circle)
MTBE

Duplicate I.D.: Cleaning Blank I.D.:

Analyzed for: TPH-G BTEX TPH-D OTHER:
(Circle)

CHEVRON WELL MONITORING DATA SHEET

Project #: 960424-H1	Station #: 9-1153
Sampler: TNH	Start Date: 4/24/96
Well I.D.: MW-4	Well Diameter: (circle one) (2) 3 4 6 ___
Total Well Depth: Before 13.30 After	Depth to Water: Before 1.95 After
Depth to Free Product:	Thickness of Free Product (feet):
Measurements referenced to: (PVC) Grade	Other:

Well Diameter	VCF	Well Diameter	VCF
1"	0.04	6"	1.47
2"	0.16	8"	2.61
3"	0.37	10"	4.08
4"	0.65	12"	5.87
5"	1.02	16"	10.43

1 Case Volume	x	Specified Volumes	=	gallons
1.8	x	3	=	5.4

Purging: Bailer
Disposable Bailer X
Middleburg
Electric Submersible
Extraction Pump
Other ___

Sampling: Bailer
Disposable Bailer X
Extraction Port
Other ___

TIME	TEMP. (F)	pH	COND.	TURBIDITY:	VOLUME REMOVED:	OBSERVATIONS:
1218	63.6	7.0	500	—	2	
1223	62.9	6.8	560	—	4	
1229	63.1	6.8	580	—	5.5	

Did Well Dewater? NO If yes, gals. Gallons Actually Evacuated: 5.5

Sampling Time: 1235	Sampling Date: 4/24/96
Sample I.D.: MW-4	Laboratory: SEQ
Analyzed for: (TPH-G) (BTEX) TPH-D OTHER: MTBE	
Duplicate I.D.:	Cleaning Blank I.D.:
Analyzed for: TPH-G BTEX TPH-D OTHER:	

CHEVRON WELL MONITORING DATA SHEET

Project #: 960424-H1	Station #: 9-1153
Sampler: TNH	Start Date: 4/24/96
Well I.D.: MW-5	Well Diameter: (circle one) (2) 3 4 6 ____
Total Well Depth: Before 13.12 After	Depth to Water: Before 1.65 After
Depth to Free Product:	Thickness of Free Product (feet):
Measurements referenced to: (PVC) Grade Other:	

Well Diameter	VCF	Well Diameter	VCF
1"	0.04	6"	1.47
2"	0.16	8"	2.61
3"	0.37	10"	4.08
4"	0.65	12"	5.87
5"	1.02	16"	10.43

1.8	x	3	=	5.4
1 Case Volume		Specified Volumes		gallons

Purging: Bailer
Disposable Bailer ✗
Middleburg
Electric Submersible
Extraction Pump
Other_____

Sampling: Bailer
Disposable Bailer ✗
Extraction Port
Other_____

TIME	TEMP. (F)	pH	COND.	TURBIDITY:	VOLUME REMOVED:	OBSERVATIONS:
1330	63.7	6.2	740	—	2	
1333	63.1	6.2	720	—	4	
1336	62.8	6.4	720	—	5.5	

Did Well Dewater? NO If yes, gals. Gallons Actually Evacuated: 5.5

Sampling Time: 1340	Sampling Date: 4/24/96
Sample I.D.: MW-5	Laboratory: SEQ
Analyzed for: (TPH-G) (BTEX) TPH-D OTHER: MTBE	
Duplicate I.D.:	Cleaning Blank I.D.:
Analyzed for: TPH-G BTEX TPH-D OTHER: (Circle)	

CHEVRON WELL MONITORING DATA SHEET

Project #: 960424-H1	Station #: 9-1153
Sampler: TNH	Start Date: 4/24/96
Well I.D.: MW-8	Well Diameter: (circle one) (2) 3 4 6 ___
Total Well Depth: Before 9.12 After	Depth to Water: Before 2.97 After
Depth to Free Product:	Thickness of Free Product (feet):
Measurements referenced to: (PVC) Grade Other:	

Well Diameter	VCF	Well Diameter	VCF
1"	0.04	6"	1.47
2"	0.16	8"	2.61
3"	0.37	10"	4.08
4"	0.65	12"	5.87
5"	1.02	16"	10.43

1 Case Volume		Specified Volumes	=	gallons
.98	x	3		2.94

Purging: Bailer
Disposable Bailer ✓
Middleburg
Electric Submersible
Extraction Pump
Other ____

Sampling: Bailer
Disposable Bailer ✓
Extraction Port
Other ____

TIME	TEMP. (F)	pH	COND.	TURBIDITY:	VOLUME REMOVED:	OBSERVATIONS:
1037	65.8	6.8	800	—	1	
1041	64.0	7.0	560	—	2	
1046	64.2	7.0	530	—	3	

Did Well Dewater? NO If yes, gals. Gallons Actually Evacuated: 3

Sampling Time: 1050 Sampling Date: 4/24/96

Sample I.D.: MW-8 Laboratory: SEQ

Analyzed for: (TPH-G) (BTEX) TPH-D OTHER:
(Circle)
MTBE

Duplicate I.D.: Cleaning Blank I.D.:

Analyzed for: TPH-G BTEX TPH-D OTHER:
(Circle)

CHEVRON WELL MONITORING DATA SHEET

Project #: 960424-H1	Station #: 9-1153
Sampler: TNH	Start Date: 4/24/96
Well I.D.: MW-9	Well Diameter: (circle one) (2) 3 4 6 ___
Total Well Depth: Before 25.55 After	Depth to Water: Before 4.18 After
Depth to Free Product:	Thickness of Free Product (feet):
Measurements referenced to: (PVC) Grade Other:	

Well Diameter	VCF	Well Diameter	VCF
1"	0.04	6"	1.47
2"	0.16	8"	2.61
3"	0.37	10"	4.08
4"	0.65	12"	5.87
5"	1.02	16"	10.43

1 Case Volume	x	Specified Volumes	=	gallons
1.70	x	3	=	2.1

Purging: Bailer
Disposable Bailer X
Middleburg
Electric Submersible
Extraction Pump
Other_____

Sampling: Bailer
Disposable Bailer X
Extraction Port
Other_____

TIME	TEMP. (F)	pH	COND.	TURBIDITY:	VOLUME REMOVED:	OBSERVATIONS:
955	69.0	7.2	1000	—	1	
959	68.2	7.2	1000	—	2	
1003	69.6	7.1	1100	—	2.5	

Did Well Dewater? NO If yes, gals. Gallons Actually Evacuated: 2.5

Sampling Time: 1010 Sampling Date: 4/24/96

Sample I.D.: MW-9 Laboratory: SEQ

Analyzed for: (TPH-G) (BTEX) TPH-D OTHER:
(Circle)
MTBE

Duplicate I.D.: Cleaning Blank I.D.:

Analyzed for: TPH-G BTEX TPH-D OTHER:
(Circle)

CHEVRON WELL MONITORING DATA SHEET

Project #: 960424-H1	Station #: 9-1153
Sampler: TNH	Start Date: 4/24/96
Well I.D.: MW-10	Well Diameter: (circle one) (2) 3 4 6 ___
Total Well Depth: Before 8.92 After	Depth to Water: Before 4.30 After
Depth to Free Product:	Thickness of Free Product (feet):
Measurements referenced to: (PVC) Grade	Other:

Well Diameter	VCF	Well Diameter	VCF
1"	0.04	6"	1.47
2"	0.16	8"	2.61
3"	0.37	10"	4.08
4"	0.65	12"	5.87
5"	1.02	16"	10.43

.73	x	3	=	2.2
1 Case Volume		Specified Volumes		gallons

Purging: Bailer
Disposable Bailer X
Middleburg
Electric Submersible
Extraction Pump
Other_____

Sampling: Bailer
Disposable Bailer X
Extraction Port
Other_____

TIME	TEMP. (F)	pH	COND.	TURBIDITY:	VOLUME REMOVED:	OBSERVATIONS:
9:32	67.8	6.4	2900	—	1	
9:38	67.2	6.0	3000	—	2	
9:45	66.6	5.8	3200	—	2.5	

Did Well Dewater? NO If yes, gals. Gallons Actually Evacuated: 7.5

Sampling Time: 950 Sampling Date: 4/24/96

Sample I.D.: MW-10 Laboratory: SEQ

Analyzed for: (TPH-G) (BTEX) TPH-D OTHER:
(Circle) MTBE

Duplicate I.D.: Cleaning Blank I.D.:

Analyzed for: TPH-G BTEX TPH-D OTHER:
(Circle)

CHEVRON WELL MONITORING DATA SHEET

Project #: 960419-H1	Station #: 9-1153
Sampler: TNH	Start Date: 4/19/96
Well I.D.: C-1	Well Diameter: (circle one) 2 (3) 4 6 ___
Total Well Depth: Before — After	Depth to Water: Before 3.09 After
Depth to Free Product: 3.05	Thickness of Free Product (feet): .04
Measurements referenced to: (PVC) Grade Other:	

Well Diameter	VCF	Well Diameter	VCF
1"	0.04	6"	1.47
2"	0.16	8"	2.61
3"	0.37	10"	4.08
4"	0.65	12"	5.87
5"	1.02	16"	10.43

_____ x _____ = _____

1 Case Volume | Specified Volumes | gallons

Purging: Bailer
Disposable Bailer ✓
Middleburg
Electric Submersible
Extraction Pump
Other_____

Sampling: Bailer
Disposable Bailer
Extraction Port
Other_____

TIME	TEMP. (F)	pH	COND.	TURBIDITY:	VOLUME REMOVED:	OBSERVATIONS:
	EMPTIED SKIMMER			1500ML		
	BAILED FP					

Did Well Dewater? If yes, gals. Gallons Actually Evacuated:

Sampling Time: Sampling Date:

Sample I.D.: C-1 Laboratory: CHEVRON TERMINAL

Analyzed for: TPH-G BTEX TPH-D OTHER: (Circle)

MATERIAL ID

Duplicate I.D.: Cleaning Blank I.D.:

Analyzed for: TPH-G BTEX TPH-D OTHER: (Circle)

CHEVRON WELL MONITORING DATA SHEET

Project #: 96041152	Station #: 9-1153
Sampler: SHAWN	Start Date: 04/11/96
Well I.D.: C-1	Well Diameter: (circle one) 2 (3) 4 6 ___
Total Well Depth: Before ___ After ___	Depth to Water: Before 5.61 After ___
Depth to Free Product: 3.86	Thickness of Free Product (feet): 1.75
Measurements referenced to: (PVC) Grade Other:	

Well Diameter	VCF	Well Diameter	VCF
1"	0.04	6"	1.47
2"	0.16	8"	2.61
3"	0.37	10"	4.08
4"	0.65	12"	5.87
5"	1.02	16"	10.43

—	x	—	=	—
1 Case Volume		Specified Volumes		gallons

Purging: Bailer
Disposable Bailer
Middleburg
Electric Submersible
Extraction Pump
Other ___

Sampling: Bailer
Disposable Bailer
Extraction Port
Other ___

TIME	TEMP. (F)	pH	COND.	TURBIDITY:	VOLUME REMOVED:	OBSERVATIONS:
1440	BAILED	FP;			2000 mL	BLACK

Did Well Dewater? If yes, gals. Gallons Actually Evacuated:

Sampling Time: Sampling Date:

Sample I.D.: Laboratory:

Analyzed for: TPH-G BTEX TPH-D OTHER:
(Circle)

Duplicate I.D.: Cleaning Blank I.D.:

Analyzed for: TPH-G BTEX TPH-D OTHER:
(Circle)

WSPA PURGING STUDY

WATER SAMPLE FIELD DATA SHEET

SITE #: 9-1153 PURGED BY: TNH WELL I.D.: MW-6

CLIENT NAME: CHEVRON SAMPLED BY: TNH SAMPLE I.D.:

LOCATION: 3126 FERNSIDE BLVD ALAMEDA CA QA SAMPLES:

DATE PURGED 4/24/96 START (2400hr) 1050 END (2400hr)

DATE SAMPLED 4/24/96 SAMPLE TIME (PRE) 1108 SAMPLE TIME (POST) 1115

SAMPLING CONDITIONS Weather RAINY Temperature 65° Other

CASING DIAMETER: 2" ✓ 3" 4" 4.5" 5" 6" 8" Other

Casing Volume Per Foot (0.17) (0.38) (0.67) (0.85) (1.02) (1.50) (2.60) ( )

DEPTH TO BOTTOM (feet) = 14.10 CASING VOLUME (gal) = 1.9

DEPTH TO WATER - PRE-PURGE (feet) = 2.50 CALCULATED PURGE (gal) = 5.7

DEPTH TO WATER - POST PURGE (feet) = 2.75 ACTUAL PURGE (gal) = 6.0

pH METER CALIBRATION CHECK - pH 7.0 SOLUTION READS AS 7.0

IF THE pH METER IS RE-CALIBRATED, THE RE-CALIBRATED METER pH 7.0 SOLUTION READS AS

PURGING FIELD MEASUREMENTS

TIME (2400hr)	VOLUME (gal)	TEMP. (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)	DISSOLVED OXYGEN ppm
Pre 1160	125	63.8	430	6.6	CLEAR	81.0	
1104	2	64.4	660	6.1	GREY	7200	
1108	4	64.8	710	6.2	GREY/BRN	7200	
1112	6	65.0	760	6.4	"	7200	
Post Purge Sample Parameters		66.2	980	6.4	"	7200	

% RECHARGED WHEN SAMPLED (DTW-pre/DTW-post)

SAMPLE VESSEL / PRESERVATIVE: VOA / HCL LAB. ANALYSIS TPHG, BTEX, MTBE

PURGING EQUIPMENT

- ___ Bladder Pump
- ___ Centrifugal Pump
- ___ Submersible Pump
- ___ Peristaltic Pump
- ___ Bailer (Teflon)
- ✓ Bailer (PCV)
- ___ Bailer (Stainless Steel)
- ___ Vacuum Truck

MONITORING EQUIPMENT

Water Level Meter Mfg. by: SLOPE

pH Meter Mfg. by: MYRON

pH Meter Model #: 6PDS

D.O. Meter Mfg. by:

WELL HEAD CONDITION: OK

REMARKS: ODOR

SIGNATURE:

wsfds.wb1

WSPA PURGING STUDY

WATER SAMPLE FIELD DATA SHEET

SITE #: 9-1153 PURGED BY: TNH WELL I.D.: MW-7

CLIENT NAME: CHEVRON SAMPLED BY: TNH SAMPLE I.D.: MW-7NP-PP

LOCATION: 9-1153 QA SAMPLES: _____

DATE PURGED 4/24/96 START (2400hr) _____ END (2400hr) _____

DATE SAMPLED 4/24/96 SAMPLE TIME (PRE) 1300 SAMPLE TIME (POST) 1320

SAMPLING CONDITIONS Weather RAINY Temperature 65° Other _____

CASING DIAMETER:	2" ✓	3"	4"	4.5"	5"	6"	8"	Other
Casing Volume Per Foot	(0.17)	(0.38)	(0.67)	(0.85)	(1.02)	(1.50)	(2.60)	( )

DEPTH TO BOTTOM (feet) = 14.49 CASING VOLUME (gal) = 1.7

DEPTH TO WATER - PRE-PURGE (feet) = 4.12 CALCULATED PURGE (gal) = 5.1

DEPTH TO WATER - POST PURGE (feet) = 4.63 ACTUAL PURGE (gal) = 5.5

pH METER CALIBRATION CHECK - pH 7.0 SOLUTION READS AS 7.0

IF THE pH METER IS RE-CALIBRATED, THE RE-CALIBRATED METER pH 7.0 SOLUTION READS AS _____

PURGING FIELD MEASUREMENTS

TIME (2400hr)	VOLUME (gal)	TEMP. (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)	DISSOLVED OXYGEN ppm
Pre 1301	~2.5	64.3	1000	6.2	CLEAR	39.5	
1305	2	63.6	1000	6.6	GREY	7200	
1309	4	63.5	1000	6.6		7200	
1314	5.5	62.4	1000	6.8	GREY	7200	
Post Purge Sample Parameters		64.1	1000	6.6	GREY	7200	

% RECHARGED WHEN SAMPLED (DTW-pre/DTW-post) _____

SAMPLE VESSEL / PRESERVATIVE: VOA/HCL LAB. ANALYSIS TPHG, BTEX, MTBE

PURGING EQUIPMENT

- ____ Bladder Pump
- ____ Centrifugal Pump
- ____ Submersible Pump
- ____ Peristaltic Pump
- ____ Bailer (Teflon)
- ✓ Bailer (PCV)
- ____ Bailer (Stainless Steel)
- ____ Vacuum Truck

MONITORING EQUIPMENT

Water Level Meter Mfg. by: SLOPE

pH Meter Mfg. by: MYRON

pH Meter Model #: L105

D.O. Meter Mfg. by: _____

WELL HEAD CONDITION: OK

REMARKS: ODOR

SIGNATURE: [signature]

wsfds.wb1

WELL GAUGING DATA

Project # 960326-K3 Date 3/26 Client Chevron

Site 3126 Fernside Blvd, Alameda

Well I.D.	Well Size (in.)	Sheen/ Odor	Depth to Immiscible Liquid (feet)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to Water (feet)	Depth to Well Bottom (feet)	Survey Point: TOB or TOC
C-1	3	FP	2.68	1.28	1500	3.96	—	TOC
			Emptied Skimmer					

CHEVRON WELL MONITORING DATA SHEET

Project #: 960326-123	Station #: 9-1153
Sampler: KCB	Start Date: 3/26
Well I.D.: C-1	Well Diameter: (circle one) 2 (3) 4 6 ___
Total Well Depth: Before ___ After ___	Depth to Water: Before 396 After ___
Depth to Free Product: 268	Thickness of Free Product (feet): 1.28
Measurements referenced to: (PVC) Grade Other:	

Well Diameter	VCF	Well Diameter	VCF
1"	0.04	6"	1.47
2"	0.16	8"	2.61
3"	0.37	10"	4.08
4"	0.65	12"	5.87
5"	1.02	16"	10.43

___	x	___	=	___
1 Case Volume		Specified Volumes		gallons

Purging: Bailer
Disposable Bailer
Middleburg
Electric Submersible
Extraction Pump
Other ___

Sampling: Bailer
Disposable Bailer
Extraction Port
Other ___

TIME	TEMP. (F)	pH	COND.	TURBIDITY:	VOLUME REMOVED:	OBSERVATIONS:
	1500 ml of FP removed					
	Skimmer Emptied					

Did Well Dewater? / If yes, gals. / Gallons Actually Evacuated: /

Sampling Time: 1345 Sampling Date:

Sample I.D.: FPC1 Laboratory: Chem Tech

Analyzed for: TPH-G BTEX TPH-D OTHER: (Circle)
Fuel Finger Print

Duplicate I.D.: Cleaning Blank I.D.:

Analyzed for: TPH-G BTEX TPH-D OTHER: (Circle)

WELL GAUGING DATA

Project # 960308-T1 Date 3-8-96 Client 91153

Site 3126 Fernside Blvd., Alameda, CA

	Well I.D.	Well Size (in.)	Sheen/ Odor	Depth to Immiscible Liquid (feet)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to Water (feet)	Depth to Well Bottom (feet)	Survey Point: TOB or TOC
1st	C1	3		~~1~~.03	1.83	1 l	2.86		TOC
2nd	C1	3		~~1~~.94	.36	2 l	2.30		↓
3rd	C1	3		1.97	.36	1 l	2.33		
4th	C1	3		2.06	.22	2 l	2.28		

WELL GAUGING DATA

Project # 960228-L1 Date 2/28/96 Client COSA 9-153

Site 3126 Fernside Blvd., Alameda

Well I.D.	Well Size (in.)	Sheen/ Odor	Depth to Immiscible Liquid (feet)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed ~~(ml)~~ gal	Depth to Water (feet)	Depth to Well Bottom (feet)	Survey Point: TOB or TOC
C-1	3	Free Product		>0.83	1.25 gallons	-	-	

WELL GAUGING DATA

Project # 960223-SJ Date 2/23/96 Client Chev

Site 3126 Fernside Blvd, Alameda

	Well I.D.	Well Size (in.)	Sheen/ Odor	Depth to Immiscible Liquid (feet)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to Water (feet)	Depth to Well Bottom (feet)	Survey Point: TOB or TOC
*	C-1	3	Free Product	2.24	1.86	2500	4.10		TOC

* Pulled Skimmer Before Gauging

CHEVRON WELL MONITORING DATA SHEET

Project #: 960223-J3	Station #: 9-1153
Sampler: MJ	Start Date: ~~3/23~~ 2/23/96
Well I.D.: C-1	Well Diameter: (circle one) 2 (3) 4 6 ___
Total Well Depth: Before ___ After ___	Depth to Water: Before 4.10 After ___
Depth to Free Product: 2.24	Thickness of Free Product (feet): 1.86
Measurements referenced to: (PVC) Grade Other:	

Well Diameter	VCF	Well Diameter	VCF
1"	0.04	6"	1.47
2"	0.16	8"	2.61
3"	0.37	10"	4.08
4"	0.65	12"	5.87
5"	1.02	16"	10.43

___ X ___ = ___

1 Case Volume | Specified Volumes | gallons

Purging: Bailer / (Disposable Bailer) / Middleburg / Electric Submersible / Extraction Pump / Other ___

Sampling: Bailer / Disposable Bailer / Extraction Port / Other ___

TIME	TEMP. (F)	pH	COND.	TURBIDITY:	VOLUME REMOVED:	OBSERVATIONS:
		Bailed 3		Gal Water		
		Removed		2500 ml	Free Product	

Did Well Dewater? If yes, gals. Gallons Actually Evacuated:

Sampling Time: 1255	Sampling Date: 2/22
Sample I.D.: SPH - C-1	Laboratory: Chev. Terminal
Analyzed for: TPH-G BTEX TPH-D OTHER: (Material ID) (Circle)	
Duplicate I.D.:	Cleaning Blank I.D.:
Analyzed for: TPH-G BTEX TPH-D OTHER: (Circle)	