5544

Delta
Environmental
Consultants, Inc.

3164 Gold Camp Drive
Suite 200
Rancho Cordova, CA 95670-6021
U.S.A.
916/638-2085
FAX: 916/638-8385

May 17, 2001

Mr. Barney Chan
Alameda County Health Care Service
Department of Environmental Health
1153 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

MAY 8 1 2001

Subject: *First Quarter Event of February 9, 2001*
Groundwater Monitoring and Sampling Report
Chevron Service Station No. 20-6145
800 Center Street
Oakland, California
Delta Project No. DG26-145

Dear Mr. Chan:

Attached for your review and comment is a letter report entitled *First Quarter Event of February 9, 2001, Groundwater Monitoring and Sampling Report* for the above referenced site. This report was prepared by Delta Environmental Consultants, Inc. / Gettler-Ryan, Inc and details the results of the February 2001 ground water monitoring and sampling event.

During May 2001, Delta plans to submit an underground storage tank removal report and a work plan for installation of a down-gradient groundwater monitoring well to Alameda County Health Care Services. Also, during the second quarter of 2001, Delta plans to submit a work plan for excavation of soil at the site.

If you have questions or comments regarding this report, please contact Steve Carter at (916) 631-1300 or me at (916) 638-2732.

Sincerely,

DELTA ENVIRONMENTAL CONSULTANTS, INC.

Jim Brownell
Portfolio Manager

JRB (1st Qrt 2001 QM-206145.doc)
Enclosures

cc: Tom Bauhs – Chevron Product Company
Steve Carter – Gettler Ryan Inc.

GETTLER-RYAN INC.

TRANSMITTAL

April 16, 2001
G-R #386492

TO: Mr. James Brownell
Delta Environmental Consultants, Inc.
3164 Gold Camp Drive, Suite 200
Rancho Cordova, California 95670

CC: Mr. Thomas Bauhs
Chevron Products Company
P.O. Box 6004
San Ramon, California 94583

FROM: Deanna L. Harding
Project Coordinator
Gettler-Ryan Inc.
6747 Sierra Court, Suite J
Dublin, California 94568

RE: Chevron Service Station
#20-6145
800 Center Street
Oakland, California

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DATED	DESCRIPTION
2	April 10, 2001	Groundwater Monitoring and Sampling Report First Quarter - Event of February 9, 2001

COMMENTS:

Enclosed are copies of the above referenced report for your review and distribution to the following:

Barney Chan
Mr. ~~Larry Seto~~; Alameda County Health Care Services, Dept. of Environmental Health, 1153 Harbor Bay Parkway, Suite 250, Alameda, CA 94502-6577

Please provide any comments/changes and propose any groundwater monitoring modifications for the next event prior to ***April 30, 2001***, at which time the final report will be distributed to the following:

Mr. Greg Gurss, Gettler-Ryan Inc., 3140 Gold Camp Drive, Suite 170, Rancho Cordova, CA 95670
Mr. Terrell A. Sadler, 618 Brooklyn Avenue, Oakland, CA 94606
Mr. James Scott, BPH, Inc., 333 Hegenberger Road, Suite 209, Oakland, CA 94621
Mr. Hollis Rodgers, c/o Victor E. Brown, Esq., 580 Grand Avenue, Oakland, CA 94610

Enclosures

trans/20-6145-TB

GETTLER-RYAN INC.

April 10, 2001
G-R Job #386492

Mr. Thomas Bauhs
Chevron Products Company
P.O. Box 6004
San Ramon, CA 94583

RE: First Quarter Event of February 9, 2001
Groundwater Monitoring & Sampling Report
Chevron (Former Signal Oil) Service Station #20-6145 (S-800)
800 Center Street
Oakland, California

Dear Mr. Bauhs:

This report documents the most recent groundwater monitoring and sampling event performed by Gettler-Ryan Inc. (G-R) at the referenced site. All field work was conducted in accordance with G-R Standard Operating Procedure - Groundwater Sampling (attached).

Static groundwater levels were measured and the wells were checked for the presence of separate-phase hydrocarbons. Static water level data, groundwater elevations, and separate-phase hydrocarbon thickness (if any) are presented in the attached Table 1. A Potentiometric Map is included as Figure 1.

Groundwater samples were collected from the monitoring wells and submitted to a state certified laboratory for analyses. The field data sheets for this event are attached. Analytical results are presented in the table(s) listed below. The chain of custody document and laboratory analytical report are also attached.

Please call if you have any questions or comments regarding this report. Thank you.

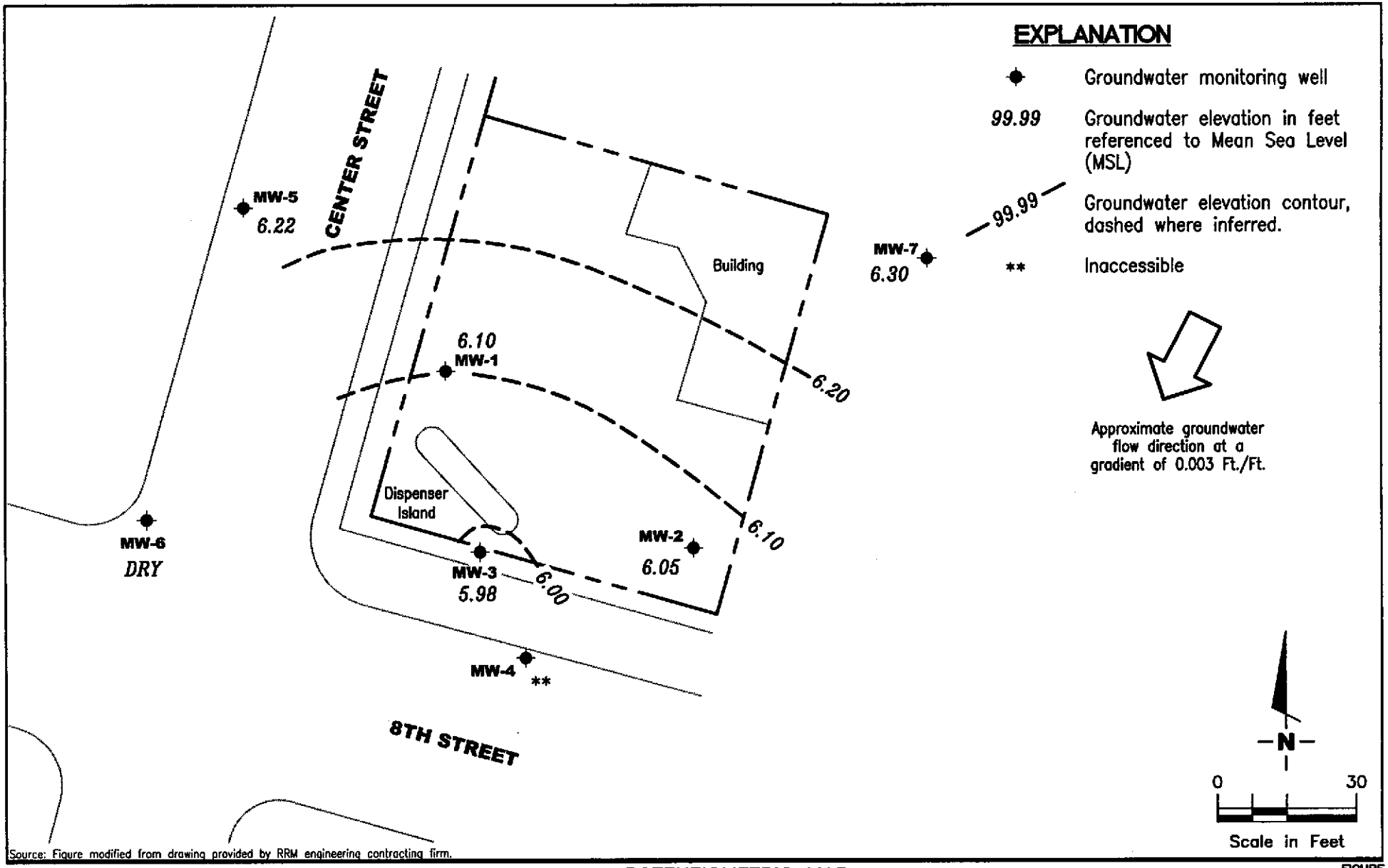
Sincerely,

Deanna L. Harding
Project Coordinator

Hagop Kevork
P.E. No. C55734

REGISTERED PROFESSIONAL ENGINEER
HAGOP KEVORK
No. C 55734
Exp. 12/31/04
CIVIL
STATE OF CALIFORNIA

Figure 1: Potentiometric Map
Table 1: Groundwater Monitoring Data and Analytical Results
Table 2: Field Measurements and Analytical Results
Table 3: Groundwater Analytical Results - Oxygenate Compounds
Attachments: Standard Operating Procedure - Groundwater Sampling
Field Data Sheets
Chain of Custody Document and Laboratory Analytical Reports



Source: Figure modified from drawing provided by RRM engineering contracting firm.

GETTLER - RYAN INC.
6747 Sierra Ct., Suite J
Dublin, CA 94568 (925) 551-7555

POTENTIOMETRIC MAP
Chevron (Former Signal Oil) Service Station #20-6145
800 Center Street
Oakland, California

FIGURE 1

PROJECT NUMBER	REVIEWED BY	DATE	REVISED DATE
386492		February 9, 2001	

FILE NAME: P:\Enviro\Chevron\20-6145\Q01-20-6145.dwg | Layout Tab: Pot1

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron (Former Signal Oil) Service Station #20-6145 (S-800)
800 Center Street
Oakland, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	CUB (cfu/ml)
MW-1										
10/27/95	15.69	10.54	5.15	170,000	19,000	34,000	4,800	26,000	--	--
02/20/97	15.64	8.96	6.68	18,000	870	3,500	470	2,100	<250	--
04/24/97	15.64	7.30	8.34	76,000	4,600	16,000	1,600	8,300	1,000	--
07/23/97	15.64	5.90	9.74	37,000	2,700	8,000	870	6,100	<250	--
10/29/97	15.64	INACCESSIBLE		--	--	--	--	--	--	--
01/28/98	15.64	9.30	6.34	10,000	380	2,000	300	1,500	<25	--
05/11/98	15.64	8.72	6.92	17,000	880	3,100	380	2,300	<250	--
07/16/98	15.64	7.23	8.41	29,000	2,700	6,800	890	3,900	<1,000	--
08/04/98[a]	15.64	6.90	8.74	--	--	--	--	--	--	$<1.0 \times 10^1$
09/03/98[a]	15.64	6.43	9.21	--	--	--	--	--	--	4.1×10^3
10/21/98[b]	15.64	5.59	10.05	--	--	--	--	--	--	4.7×10^2
11/04/98	15.64	5.64	10.00	25,000	1,900	5,900	810	4,300	<125	--
01/26/99	15.64	6.86	8.78	<50	<0.5	<0.5	<0.5	<0.5	<2.0	--
05/06/99	15.64	8.17	7.47	8,050	515	1,840	256	1,190	300/<20[c]	--
08/21/99	15.64	13.27	2.37	46,500	2,530	8,700	1,010	5,300	<1,250/<40[c]	--
10/28/99	15.64	5.46	10.18	31,600	1,580	6,100	794	4,400	1,270	--
01/31/00	15.64	7.49	8.15	7,270	366	1,280	171	935	<12.5	--
05/19/00	15.64	7.78	7.86	8,000[e]	870	1,200	430	1,200	<250	--
08/07/00	15.64	6.42	9.22	37,000[e]	2,400	8,500	1,100	5,500	1,500/<4.0[f]	--
12/01/00	15.64	5.25	10.39	25,500[g]	1,390	4,920	801	4,330	<500/<10[f]	--
02/09/01	**15.64**	**6.10**	**9.54**	**8,900[e]**	**850**	**1,300**	**470**	**1,700**	**820/<2.0[f]**	**--**
MW-2										
10/27/95	15.77	10.60	5.17	<50	<0.5	<0.5	<0.5	<0.5	--	--
02/20/97	15.72	8.51	7.21	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
04/24/97	15.72	7.82	7.90	83[d]	<0.5	<0.5	<0.5	<0.5	<2.5	--
07/23/97	15.72	5.92	9.80	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
10/29/97	15.72	5.13	10.59	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
01/28/98	15.72	9.21	6.51	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
05/11/98	15.72	8.82	6.90	SAMPLED ANNUALLY		--	--	--	--	--

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron (Former Signal Oil) Service Station #20-6145 (S-800)
800 Center Street
Oakland, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	CUB (cfu/ml)
MW-2 (cont)										
07/16/98	15.72	7.37	8.35	--	--	--	--	--	--	--
08/04/98[a]	15.72	7.03	8.69	--	--	--	--	--	--	1.9×10^1
09/03/98[a]	15.72	6.44	9.28	--	--	--	--	--	--	3.0×10^2
10/21/98[h]	15.72	5.51	10.21	--	--	--	--	--	--	8.8×10^2
11/04/98	15.72	5.60	10.12	--	--	--	--	--	--	--
01/26/99	15.72	6.87	8.85	<50	<0.5	<0.5	<0.5	<0.5	<2.0	--
05/06/99	15.72	8.20	7.52	--	--	--	--	--	--	--
08/21/99	15.72	13.21	2.51	--	--	--	--	--	--	--
10/28/99	15.72	6.35	9.37	--	--	--	--	--	--	--
01/31/00	15.72	7.25	8.47	<50	<0.5	0.541	<0.5	<0.5	<2.5	--
05/19/00	15.72	7.65	8.07	--	--	--	--	--	--	--
08/07/00	15.72	6.35	9.37	<50	<0.50	<0.50	<0.50	<0.50	<2.5/<2.0[f]	--
12/01/00	15.72	5.60	10.12	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	--
02/09/01	**15.72**	**6.05**	**9.67**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<2.5**	--
MW-3										
10/27/95	15.46	10.37	5.09	33,000	11,000	1,700	2,300	4,200	--	--
02/20/97	15.42	8.37	7.05	260	56	<1.0	7.6	5.9	<5.0	--
04/24/97	15.42	7.29	8.13	1,400	310	28	76	75	74	--
07/23/97	15.42	5.84	9.58	37,000	10,000	1,500	2,700	4,200	2,500	--
10/29/97	15.42	5.09	10.33	53,000	12,000	1,200	3,000	3,100	2,500	--
01/28/98	15.42	8.94	6.48	210	43	1.5	1.7	3.9	10	--
05/11/98	15.42	8.49	6.93	59	11	<0.5	2.1	<0.5	<2.5	--
07/16/98	15.42	7.14	8.28	260	90	4.8	18	5.7	<10	--
08/04/98[a]	15.42	6.88	8.54	--	--	--	--	--	--	8.5×10^2
09/03/98[a]	15.42	6.34	9.08	--	--	--	--	--	--	2.4×10^3
10/21/98[h]	15.42	5.62	9.80	--	--	--	--	--	--	6.0×10^1
11/04/98	15.42	5.60	9.82	73,000	17,000	3,800	4,900	8,100	<250	--
01/26/99	15.42	6.70	8.72	32,400	10,200	1,850	2,650	3,140	715/<500[c]	--
05/06/99	15.42	7.97	7.45	3,160	668	89.6	180	123	<200/<10[c]	--

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron (Former Signal Oil) Service Station #20-6145 (S-800)

800 Center Street

Oakland, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	CUB (cfu/ml)
MW-3 (cont)										
08/21/99	15.42	7.95	7.47	53,800	9,700	2,040	2,880	5,000	<1,250/<40[c]	--
10/28/99	15.42	5.37	10.05	71,300	14,000	3,420	4,320	8,360	<1,000	--
01/31/00	15.42	7.16	8.26	1,650	496	49.1	134	82.6	<12.5	--
05/19/00	15.42	7.60	7.82	110[c]	36	2.5	9.1	4.0	6.3	--
08/07/00	15.42	6.29	9.13	36,000[c]	9,000	3,000	2,700	2,800	2,500/<10[f]	--
12/01/00	15.42	2.45	12.97	NOT SAMPLED DUE TO INSUFFICIENT WATER				--	--	--
02/09/01	**15.42**	**5.98**	**9.44**	**32,000[c]**	**11,000**	**3,900**	**3,200**	**4,800**	**3,200/<2.0[f]**	**--**
MW-4										
10/27/95	14.45	9.37	5.08	66	6.8	<0.5	<0.5	<0.5	--	--
02/20/97	14.40	8.12	6.28	54	<0.5	<0.5	<0.5	7.4	39	--
04/24/97	14.40	7.29	7.11	54	1.4	<0.5	0.65	3.0	100	--
07/23/97	14.40	5.80	8.60	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
10/29/97	14.40	5.74	8.66	--	--	--	--	--	--	--
11/13/97	14.40	4.97	9.43	<50	<0.5	0.79	<0.5	<0.5	<2.5	--
01/28/98	14.40	8.88	5.52	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
05/11/98	14.40	8.40	6.00	SAMPLED BIANNUALLY		--	--	--	--	--
07/16/98	14.40	7.08	7.32	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
08/04/98[a]	14.40	6.28	8.12	--	--	--	--	--	--	1.8×10^4
09/03/98[a]	14.40	6.32	8.08	--	--	--	--	--	--	1.4×10^4
10/21/98[b]	14.40	5.64	8.76	--	--	--	--	--	--	8.6×10^4
11/04/98	14.40	5.61	8.79	--	--	--	--	--	--	--
01/26/99	14.40	6.71	7.69	<50	<0.5	<0.5	<0.5	<0.5	<2.0	--
05/06/99	14.40	8.15	6.25	--	--	--	--	--	--	--
08/21/99	14.40	8.13	6.27	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
10/28/99	14.40	4.14	10.26	--	--	--	--	--	--	--

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron (Former Signal Oil) Service Station #20-6145 (S-800)
800 Center Street
Oakland, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	CUB (cfu/ml)
MW-4 (cont)										
01/31/00	14.40	7.07	7.33	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
05/19/00	14.40	7.52	6.88	--	--	--	--	--	--	--
08/07/00	14.40	6.23	8.17	<50	4.3	0.60	<0.50	<0.50	<2.5/<2.0[f]	--
12/01/00	14.40	INACCESSIBLE		--	--	--	--	--	--	--
02/09/01	**14.40**	**INACCESSIBLE**		**--**	**--**	**--**	**--**	**--**	**--**	**--**
MW-5										
01/03/97	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
02/20/97	15.03	INACCESSIBLE		--	--	--	--	--	--	--
04/24/97	15.03	INACCESSIBLE		--	--	--	--	--	--	--
04/30/97	15.03	7.06	7.97	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
07/23/97	15.03	INACCESSIBLE		--	--	--	--	--	--	--
10/29/97	15.03	INACCESSIBLE		--	--	--	--	--	--	--
01/28/98	15.03	8.83	6.20	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
05/11/98	15.03	INACCESSIBLE		--	--	--	--	--	--	--
07/16/98	15.03	7.28	7.75	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
08/04/98	15.03	INACCESSIBLE		--	--	--	--	--	--	--
11/04/98	15.03	INACCESSIBLE		--	--	--	--	--	--	--
01/26/99	15.03	INACCESSIBLE		--	--	--	--	--	--	--
05/06/99	15.03	INACCESSIBLE		--	--	--	--	--	--	--
08/21/99	15.03	6.74	8.29	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
10/28/99	15.03	4.60	10.43	--	--	--	--	--	--	--
01/31/00	15.03	7.39	7.64	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
05/19/00	15.03	7.85	7.18	--	--	--	--	--	--	--
08/07/00	15.03	INACCESSIBLE		--	--	--	--	--	--	--
12/01/00	15.03	5.68	9.35	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50/<2.0[f]	--
02/09/01	**15.03**	**6.22**	**8.81**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<2.5/<2.0[f]**	**--**

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron (Former Signal Oil) Service Station #20-6145 (S-800)
800 Center Street
Oakland, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	CUB (cfu/ml)
MW-6										
01/03/97	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
02/20/97	14.73	8.11	6.62	800	310	23	11	28	<12	--
04/24/97	14.73	7.13	7.60	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
07/23/97	14.73	5.73	9.00	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
10/29/97	14.73	4.98	9.75	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
01/28/98	14.73	8.19	6.54	160	38	<0.5	<0.5	<0.5	<2.5	--
05/11/98	14.73	8.08	6.65	1,700	490	72	39	52	<25	--
07/16/98	14.73	7.04	7.69	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
08/04/98[a]	14.73	6.89	7.84	--	--	--	--	--	--	8.6×10^3
09/03/98[a]	14.73	6.24	8.49	--	--	--	--	--	--	2.9×10^3
10/21/98[b]	14.73	5.46	9.27	--	--	--	--	--	--	1.8×10^3
11/04/98	14.73	5.52	9.21	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
01/26/99	14.73	6.49	8.24	<50	<0.5	<0.5	<0.5	<0.5	<2.0	--
05/06/99	14.73	7.91	6.82	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
08/21/99	14.73	7.93	6.80	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
10/28/99	14.73	5.27	9.46	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
01/31/00	14.73	7.16	7.57	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
05/19/00	14.73	7.60	7.13	<50	11	<0.5	<0.5	<0.5	<2.5	--
08/07/00	14.73	6.22	8.51	<50	<0.50	<0.50	<0.50	<0.50	<2.5/<2.0[f]	--
12/01/00	14.73	DRY	--	--	--	--	--	--	--	--
02/09/01	**14.73**	**DRY**	**--**	**--**	**--**	--	--	**--**	--	--
MW-7										
01/03/97	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
02/20/97	16.36	8.86	7.50	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
04/24/97	16.36	7.59	8.77	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
07/23/97	16.36	6.09	10.27	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
10/29/97	16.36	5.28	11.08	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
01/28/98	16.36	9.10	7.26	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
05/11/98	16.36	9.11	7.25	SAMPLED ANNUALLY		--	--	--	--	--

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron (Former Signal Oil) Service Station #20-6145 (S-800)
800 Center Street
Oakland, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	CUB (cfu/ml)
MW-7 (cont)										
07/16/98	16.36	8.00	8.36	--	--	--	--	--	--	--
08/04/98[a]	16.36	7.32	9.04	--	--	--	--	--	--	1.5×10^3
09/03/98[a]	16.36	6.65	9.71	--	--	--	--	--	--	6.5×10^2
10/21/98[b]	16.36	5.96	10.40	--	--	--	--	--	--	4.8×10^3
11/04/98	16.36	5.89	10.47	--	--	--	--	--	--	--
01/26/99	16.36	8.25	8.11	<50	<0.5	<0.5	<0.5	0.5	<2.0	--
05/06/99	16.36	8.47	7.89	--	--	--	--	--	--	--
08/21/99	16.36	8.51	7.85	--	--	--	--	--	--	--
10/28/99	16.36	6.04	10.32	--	--	--	--	--	--	--
01/31/00	16.36	7.57	8.79	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
05/19/00	16.36	UNABLE TO LOCATE		--	--	--	--	--	--	--
08/07/00	16.36	6.67	9.69	<50	<0.50	<0.50	<0.50	<0.50	<2.5/<2.0[f]	--
12/01/00	16.36	5.84	10.52	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	--
02/09/01	**16.36**	**6.30**	**10.06**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<2.5**	**--**
TRIP BLANK										
02/20/97	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
04/24/97	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
07/23/97	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
10/29/97	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
01/28/98	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
05/11/98	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
07/16/98	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
11/04/98	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.0	--
01/26/99	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.0	--
05/06/99	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron (Former Signal Oil) Service Station #20-6145 (S-800)

800 Center Street

Oakland, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	CUB (cfu/ml)
TRIP BLANK (cont)										
01/31/00	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
05/19/00	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--
08/07/00	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--
12/01/00	--	--	--	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	--
02/09/01	**--**	**--**	**--**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<2.5**	**--**

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron (Former Signal Oil) Service Station #20-6145 (S-800)
800 Center Street
Oakland, California

EXPLANATIONS:

Groundwater monitoring data and laboratory analytical results prior to May 19, 2000 were compiled from reports prepared by Blaine Tech Services, Inc.

TOC = Top of Casing
(ft.) = Feet
GWE = Groundwater Elevation
(msl) = Mean sea level
DTW = Depth to Water
TPH-G = Total Petroleum Hydrocarbons as Gasoline

B = Benzene
T = Toluene
E = Ethylbenzene
X = Xylenes
MTBE = Methyl tertiary butyl ether

CUB = Contaminate utilizing bacteria
(cfu/ml) = Colony forming unit per milliliter
(ppb) = Parts per billion
-- = Not Measured/Not Analyzed

[a] Contaminate hydrocarbon utilizing bacteria plate count was run with diesel and jet fuel degraders.
[b] Contaminate hydrocarbon utilizing bacteria plate count was run with gasoline degraders.
[c] Confirmation run.
[d] Chromatogram pattern indicates an unidentified hydrocarbon.
[e] Laboratory report indicates gasoline C6-C12.
[f] MTBE by EPA Method 8260.
[g] Laboratory reports indicates weathered gasoline C6-C12.

Table 2

Field Measurements and Analytical Results

Chevron (Former Signal Oil) Service Station #20-6145 (S-800)

800 Center Street

Oakland, California

WELL ID/ DATE	Pre-purge DO *(mg/L)*	Post-purge DO *(mg/L)*	Pre-purge ORP *(mV)*	Post-purge ORP *(mV)*	Total Alkalinity *(ppb)*	Ferrous Iron *(ppb)*	Nitrate as Nitrate *(ppb)*	Sulfate *(ppb)*
MW-1								
09/03/98	2.3	1.6	-90	-103	230,000	9,800	<1,000	6,100
MW-2								
09/03/98	2.8	2.5	-206	-163	390,000	7,400	<1,000	21,000
MW-3								
09/03/98	3.1	0.7	-124	-99	830,000	45,000	<1,000	10,000
MW-4								
09/03/98	2.6	1.1	-190	-206	--	--	--	--
MW-6								
09/03/98	2.6	3.2	-148	-167	94,000	62	28,000	47,000
MW-7								
09/03/98	2.7	3.2	-207	-229	170,000	120	7,800	57,000

EXPLANATIONS:

Groundwater monitoring data and laboratory analytical results were compiled from reports prepared by Blaine Tech Services, Inc.

DO = Dissolved Oxygen

(mg/L) = Milligram per liter

ORP = Oxidation Reduction Potential

(mV) = Millivolts

(ppb) = Parts per billion

-- = Not Analyzed

Table 3

Groundwater Analytical Results - Oxygenate Compounds

Chevron (Former Signal Oil) Service Station #20-6145 (S-800)

800 Center Street

Oakland, California

WELL ID	DATE	ETHANOL (ppb)	TBA (ppb)	MTBE (ppb)	DIPE (ppb)	ETBE (ppb)	TAME (ppb)	1,2-DCA (ppb)	EDB (ppb)
MW-1	08/07/00	<1,000	410	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
	12/01/00	<2,500	<250	<10	<10	<10	<10	<10	<10
	02/09/01	**<500**	**340**	**<2.0**	**<2.0**	**<2.0**	**53**	**<2.0**	**<2.0**
MW-2	08/07/00	<500	<100	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
MW-3	08/07/00	<500	2,600	<10	<10	<10	<10	490	17
	02/09/01	**<500**	**2,000**	**<2.0**	**<2.0**	**<2.0**	**35**	**<2.0**	**<2.0**
MW-4	08/07/00	<500	<100	<2.0	<2.0	<2.0	<2.0	18	<2.0
MW-5	12/01/00	<500	<50	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	02/09/01	**<500**	**<50**	**<2.0**	**<2.0**	**<2.0**	**<2.0**	**<2.0**	**<2.0**
MW-6	08/07/00	<500	<100	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
MW-7	08/07/00	<500	<100	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0

EXPLANATIONS:

TBA = Tertiary butyl alcohol
MTBE = Methyl tertiary butyl ether
DIPE = Di-isopropyl ether
ETBE = Ethyl tertiary butyl ether
TAME = Tertiary amyl methyl ether
1,2-DCA = 1,2-Dichloroethane
EDB = Ethylene Dibromide
(ppb) = Parts per billion

ANALYTICAL METHOD:

EPA Method 8260 for Oxygenate Compounds

STANDARD OPERATING PROCEDURE - GROUNDWATER SAMPLING

Gettler-Ryan Inc. field personnel adhere to the following procedures for the collection and handling of groundwater samples prior to analysis by the analytical laboratory. Prior to sample collection, the type of analysis to be performed is determined. Loss prevention of volatile compounds is controlled and sample preservation for subsequent analysis is maintained.

Prior to sampling, the presence or absence of free-phase hydrocarbons is determined using an interface probe. Product thickness, if present, is measured to the nearest 0.01 foot and is noted in the field notes. In addition, static water level measurements are collected with the interface probe and are also recorded in the field notes.

After water levels are collected and prior to sampling, each well is purged a minimum of three well casing volumes of water using pre-cleaned pumps (stack, suction, Grundfos), or polyvinyl chloride bailers. Temperature, pH and electrical conductivity are measured a minimum of three times during the purging. Purging continues until these parameters stabilize.

Groundwater samples are collected using Chevron-designated disposable bailers. The water samples are transferred from the bailer into appropriate containers. Pre-preserved containers, supplied by analytical laboratories, are used when possible. When pre-preserved containers are not available, the laboratory is instructed to preserve the sample as appropriate. Duplicate samples are collected for the laboratory to use in maintaining quality assurance/quality control standards. The samples are labeled to include the job number, sample identification, collection date and time, analysis, preservation (if any), and the sample collector's initials. The water samples are placed in a cooler, maintained at 4°C for transport to the laboratory. Once collected in the field, all samples are maintained under chain of custody until delivered to the laboratory.

The chain of custody document includes the job number, type of preservation, if any, analysis requested, sample identification, date and time collected, and the sample collector's name. The chain of custody is signed and dated (including time of transfer) by each person who receives or surrenders the samples, beginning with the field personnel and ending with the laboratory personnel.

A laboratory supplied trip blank accompanies each sampling set. For sampling sets greater than 20 samples, 5% trip blanks are included. The trip blank is analyzed for some or all of the same compounds as the groundwater samples.

As requested by Chevron Products Company, the purge water and decontamination water generated during sampling activities is transported by IWM to McKittrick Waste Management located in McKittrick, California.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/ Facility # Chevron 206145 — Job#: 386492

Address: 800 Center ST. — Date: 2-9-01

City: OAKLAND Ca. — Sampler: FRANK B

Well ID: MW-1 — Well Condition: OK

Well Diameter: 2 in. — Hydrocarbon Thickness: Ø in. — Amount Bailed (product/water): Ø (gal.)

Total Depth: 13.73 ft.

Depth to Water: 9.54 ft.

Volume Factor (VF)	2" = 0.17	3" = 0.38	4" = 0.66	6" = 1.50	12" = 5.80

4.19 X VF .17 = .712 X 3 (case volume) = Estimated Purge Volume: 2.5 (gal.)

Purge Equipment: (Disposable Bailer) Bailer, Stack, Suction, Grundfos, Other: _____

Sampling Equipment: (Disposable Bailer) Bailer, Pressure Bailer, Grab Sample, Other: _____

Starting Time: 10:20 — Weather Conditions: RAIN

Sampling Time: 10:41 — Water Color: GRAY — Odor: SLIGHT

Purging Flow Rate: _____ gpm. — Sediment Description: _____

Did well de-water? NO — If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity µmhos/cm	Temperature °C	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
10:23	1	7.58	1.40	68.9			
10:26	2	7.54	1.42	69.3			
10:29	2.5	7.54	1.46	69.6			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-1	5 x VOA VIAL	Y	HCL	Seq	TPHG/BTEX/MTBE (6) OXY'S

COMMENTS: _____

3/97-fieldst.frm

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/ Facility # Chevron 206145 — Job#: 386492

Address: 800 Center ST. — Date: 2-9-01

City: OAKLAND Ca. — Sampler: FRANKB

Well ID: MW-2 — Well Condition: OK

Well Diameter: 2 in. — Hydrocarbon Thickness: ϕ in. — Amount Bailed (product/water): ϕ (gal.)

Total Depth: 13.35 ft.

Depth to Water: 9.67 ft.

Volume Factor (VF)	2" = 0.17	3" = 0.38	4" = 0.66	6" = 1.50	12" = 5.80

3.68 X VF .17 = .625 X 3 (case volume) = Estimated Purge Volume: 2 (gal.)

Purge Equipment: (Disposable Bailer) Bailer, Stack, Suction, Grundfos, Other:

Sampling Equipment: (Disposable Bailer) Bailer, Pressure Bailer, Grab Sample, Other:

Starting Time: 8:36 — Weather Conditions: RAIN

Sampling Time: 8:55 — Water Color: GRAY — Odor: NO

Purging Flow Rate: — gpm. — Sediment Description:

Did well de-water? NO — If yes; Time: — Volume: (gal.)

Time	Volume (gal.)	pH	Conductivity µmhos/cm	Temperature °C	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
8:39	.75	7.38	1.28	68.0			
8:42	1.50	7.37	1.29	68.1			
8:45	2.0	7.35	1.32	68.4			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-2	3 x VOA VIAL	Y	HCl	Seq	TPHG/BTEX/MTBE

COMMENTS:

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/ Facility # Chevron 206145 — Job#: 386492

Address: 800 Center ST. — Date: 2-9-01

City: OAKLAND Ca. — Sampler: FRANK B

Well ID: MW-3 — Well Condition: OK

Well Diameter: 2 in. — Hydrocarbon Thickness: ϕ in. — Amount Bailed (product/water): ϕ (gal.)

Total Depth: 14.28 ft.

Depth to Water: 9.44 ft.

Volume Factor (VF)	2" = 0.17	3" = 0.38	4" = 0.66	6" = 1.50	12" = 5.80

4.84 X VF .17 = .822 X 3 (case volume) = Estimated Purge Volume: 2.5 (gal.)

Purge Equipment: (Disposable Bailer) Bailer, Stack, Suction, Grundfos, Other: _____

Sampling Equipment: (Disposable Bailer) Bailer, Pressure Bailer, Grab Sample, Other: _____

Starting Time: 11:00 — Weather Conditions: RAIN

Sampling Time: 11:23 — Water Color: GRAY — Odor: YES

Purging Flow Rate: _____ gpm. — Sediment Description: _____

Did well de-water? NO — If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity µmhos/cm	Temperature °C	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
11:04	1	8.16	1.26	69.8			
11:08	2	8.08	1.44	69.1			
11:12	2.5	8.02	1.46	68.8			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-3	5 x VOA VIAL	Y	HCL	Seq	TPHG/BTEX/MTBE (6) OXY'S

COMMENTS: _____

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/ Facility # Chevron 206145 — Job#: 386492

Address: 800 Center ST. — Date: 2-9-01

City: OAKLAND Ca. — Sampler: FRANK B

Well ID: MW-4 — Well Condition: INACCESSIBLE

Well Diameter: 2 in. — Hydrocarbon Thickness: ϕ in. — Amount Bailed (product/water): ϕ (gal.)

Total Depth: 8.65 ft.

Depth to Water: ____ ft.

Volume Factor (VF)	2" = 0.17	3" = 0.38	4" = 0.66	6" = 1.50	12" = 5.80

____ X VF 1/7 = ____ X 3 (case volume) = Estimated Purge Volume: ____ (gal.)

Purge Equipment: Disposable Bailer / Bailer / Stack / Suction / Grundfos / Other: ____

Sampling Equipment: (Disposable Bailer) / Bailer / Pressure Bailer / Grab Sample / Other: ____

Starting Time: ____ — Weather Conditions: ____

Sampling Time: ____ — Water Color: ____ — Odor: ____

Purging Flow Rate: ____ gpm. — Sediment Description: ____

Did well de-water? ____ — If yes; Time: ____ — Volume: ____ (gal.)

Time	Volume (gal.)	pH	Conductivity µmhos/cm	Temperature °C	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-4	5 x VOA VIAL	Y	HCL	Seq	TPHG/BTEX/MTBE
					(6) OXY'S

COMMENTS: TRUCK PARKED OVER WELL. FOUND OWNERS RESIDENCE NOBODY HOME

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/ Facility # CHEVRON 206145 — Job#: 386492

Address: 800 Center ST. — Date: 2-9-01

City: OAKLAND Ca. — Sampler: FRANK B

Well ID: MW-5 — Well Condition: OK

Well Diameter: 2 in. — Hydrocarbon Thickness: ϕ in. — Amount Bailed (product/water): ϕ (gal.)

Total Depth: 19.25 ft.

Depth to Water: 8.81 ft.

Volume Factor (VF)	2" = 0.17	3" = 0.38	4" = 0.66	6" = 1.50	12" = 5.80

10.44 x VF .17 = 1.77 x 3 (case volume) = Estimated Purge Volume: 5.5 (gal.)

Purge Equipment: Disposable Bailer / Bailer / Stack / Suction / Grundfos / Other: _____

Sampling Equipment: (Disposable Bailer) / Bailer / Pressure Bailer / Grab Sample / Other: _____

Starting Time: 9:10 — Weather Conditions: RAIN

Sampling Time: 9:32 — Water Color: BRN — Odor: NO

Purging Flow Rate: _____ gpm. — Sediment Description: _____

Did well de-water? NO — If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity µmhos/cm	Temperature °C	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
9:14	2	7.04	6.74	63.9			
9:18	4	7.21	6.51	63.8			
9:22	5.5	7.20	6.50	63.8			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-5	5 x VOA VIAL	Y	HCL	Seq	TPHG/BTEX/MTBE
					(6) OXY'S

COMMENTS: _____

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/ Facility # Chevron 206145 — Job#: 386492

Address: 800 Center ST. — Date: 2-9-01

City: OAKLAND Ca. — Sampler: FRANK B

Well ID: MW-6 — Well Condition: OK Dry

Well Diameter: 2 in. — Hydrocarbon Thickness: Ø in. — Amount Bailed (product/water): Ø (gal.)

Total Depth: 13.73 ft.

Depth to Water: _____ ft.

Volume Factor (VF)	2" = 0.17	3" = 0.38	4" = 0.66	6" = 1.50	12" = 5.80

_____ X VF 17 = _____ X 3 (case volume) = Estimated Purge Volume: _____ (gal.)

Purge Equipment: Disposable Bailer; Bailer; Stack; Suction; Grundfos; Other: _____

Sampling Equipment: (Disposable Bailer); Bailer; Pressure Bailer; Grab Sample; Other: _____

Starting Time: _____ — Weather Conditions: RAIN

Sampling Time: _____ — Water Color: _____ — Odor: _____

Purging Flow Rate: _____ gpm. — Sediment Description: _____

Did well de-water? _____ — If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity umhos/cm	Temperature °C	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-	X VOA VIAL	Y	HCL	Seq	TPHG/BTEX/MTBE

COMMENTS: WELL is Dry. Total Depth is Supposed to be 13.73 IS ONLY 8.55

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/ Facility # Chevron 206145 | Job#: 386492

Address: 800 Center ST. | Date: 2-9-01

City: OAKLAND Ca. | Sampler: FRANKB

Well ID: MW-7 | Well Condition: OK

Well Diameter: 2 in. | Hydrocarbon Thickness: ϕ in. | Amount Bailed (product/water): ϕ (gal.)

Total Depth: 18.40 ft.

Depth to Water: 10.06 ft.

Volume Factor (VF)	2" = 0.17	3" = 0.38	4" = 0.66	6" = 1.50	12" = 5.80

8.34 X VF .17 = 1.41 X 3 (case volume) = Estimated Purge Volume: 4.5 (gal.)

Purge Equipment: (Disposable Bailer) / Bailer / Stack / Suction / Grundfos / Other: _____

Sampling Equipment: (Disposable Bailer) / Bailer / Pressure Bailer / Grab Sample / Other: _____

Starting Time: 9:40 | Weather Conditions: RAIN

Sampling Time: 10:50 | Water Color: CLEAR | Odor: NO

Purging Flow Rate: _____ gpm. | Sediment Description: _____

Did well de-water? NO | If yes; Time: _____ | Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity µmhos/cm	Temperature °C	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
9:43	1.5	7.16	0.96	67.6			
9:46	3.0	7.06	1.12	67.1			
9:49	4.5	7.08	1.10	67.0			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-7	3 x VOA VIAL	Y	HCL	Seq	TPHG/BTEX/MTBE

COMMENTS: _____

Fax copy of Lab Report and COC to Chevron Contact: ☐ No

Chain-of-Custody-Record

FROM : GETTLER RYAN INC FAX NO. : 9255517899 Mar. 09 2001 12:10PM P2

Chevron Products Co.
P.O. BOX 6004
San Ramon, CA 94583
FAX (925)842-8370

Chevron Facility Number #206145
Facility Address 800 CENTER STREET, OAKLAND, CA.
Consultant Project Number 386492
Consultant Name GETTLER-RYAN INC.
Address 6747 SIERRA COURT, SUITE J, DUBLIN, CA 94568
Project Contact (Name) DEANNA L. HARDING
(Phone) 925-551-7555 (Fax Number) 925-551-7899

Chevron Contact (Name) MR. TOM BAUHS
(Phone) (925) 842-8898
Laboratory Name SEQUOIA
Laboratory Service Order 102330
Laboratory Service Code
Samples Collected by (Name) FRANK H. BOHNET
Signature Frank H Bohn

State Method: ☒ CA ☐ OR ☐ WA ☐ NW Series ☐ CO ☐ UT IDAHO

Sample Number	Number of Containers	Matrix: S = Soil W = Water C = Charcoal	Sample Preservation	Date/Time	BTEX/MTBE+TPH GAS (8020 + 8015)	BTEX + TPH GAS (8020 + 8015)	TPH Diesel (8015)	Oxygenates (8260) Eth/EDB	Purgeable Halocarbons (8010)	Purgeable Organics (8260)	Extractable Organics (8270)	Oil and Grease (5520)	Metals (CAM 17 or LUFT 5)	BTEX (8020)	BTEX/MTBE/Naph. (8020)	TPH - HCID	TPH-D Extended						Remarks / Lab Sample No.
TBBB	1	W	HCl	2-9-01	X																		01A
MW-1	5			10:41	X			X				Amended COC											02A-E
MW-2	3			8:55	X							Change TPH BE to TBLB											03A-C
MW-3	5			11:23	X			X							AC	3/9/01							04A-E
MW-5	5			9:32	X			X															05A-E
MW-7	3	↓	↓	10:00	X																		06A-C

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time	Iced Y/N
Frank H Bohn	G-R INC.	3/10/01 1545		Sequoia	3/12/01 1550	
Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time	Iced Y/N
	Seq	3/12/01 1645		Sequoia	3/12/01	1645
		Date/Time	Received For Laboratory By (Signature)		Date/Time	Iced Y/N

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

Sequoia
Analytical

404 N. Wiget Lane
Walnut Creek, CA 94598
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9 March, 2001

Deanna L. Harding
Gettler Ryan, Inc. - Dublin
6747 Sierra Court Suite J
Dublin, CA 94568

RE: Chevron

Enclosed are the results of analyses for samples received by the laboratory on 12-Feb-01 16:45. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Dimple Sharma For Charlie Westwater
Project Manager

Sequoia Analytical

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Gettler Ryan, Inc. - Dublin	Project: Chevron	
6747 Sierra Court Suite J	Project Number: Chevron # 206145	**Report Revised:**
Dublin CA, 94568	Project Manager: Deanna L. Harding	09-Mar-01 11:31

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TBLB	W102330-01	Water	09-Feb-01 00:00	12-Feb-01 16:45
MW-1	W102330-02	Water	09-Feb-01 10:41	12-Feb-01 16:45
MW-2	W102330-03	Water	09-Feb-01 08:55	12-Feb-01 16:45
MW-3	W102330-04	Water	09-Feb-01 11:23	12-Feb-01 16:45
MW-5	W102330-05	Water	09-Feb-01 09:32	12-Feb-01 16:45
MW-7	W102330-06	Water	09-Feb-01 10:00	12-Feb-01 16:45

Sequoia Analytical - Walnut Creek

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6747 Sierra Court Suite J	Project Number: Chevron # 206145	**Report Revised:**
Dublin CA, 94568	Project Manager: Deanna L. Harding	09-Mar-01 11:31

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TBLB (W102330-01) Water Sampled: 09-Feb-01 00:00 Received: 12-Feb-01 16:45									
Purgeable Hydrocarbons	ND	50	ug/l	1	1B20004	17-Feb-01	17-Feb-01	EPA 8015M/8020	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.5	"	"	"	"	"	"	CC-3
Surrogate: a,a,a-Trifluorotoluene		*103 %*	*70-130*		"	"	"	"	
MW-1 (W102330-02) Water Sampled: 09-Feb-01 10:41 Received: 12-Feb-01 16:45									**P-01**
Purgeable Hydrocarbons	**8900**	1000	ug/l	20	1B20004	17-Feb-01	17-Feb-01	EPA 8015M/8020	
Benzene	**850**	10	"	"	"	"	"	"	
Toluene	**1300**	10	"	"	"	"	"	"	
Ethylbenzene	**470**	10	"	"	"	"	"	"	
Xylenes (total)	**1700**	10	"	"	"	"	"	"	
Methyl tert-butyl ether	**820**	50	"	"	"	"	"	"	CC-3
Surrogate: a,a,a-Trifluorotoluene		*110 %*	*70-130*		"	"	"	"	
MW-2 (W102330-03) Water Sampled: 09-Feb-01 08:55 Received: 12-Feb-01 16:45									
Purgeable Hydrocarbons	ND	50	ug/l	1	1B20004	17-Feb-01	17-Feb-01	EPA 8015M/8020	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.5	"	"	"	"	"	"	CC-3
Surrogate: a,a,a-Trifluorotoluene		*103 %*	*70-130*		"	"	"	"	

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6747 Sierra Court Suite J	Project Number: Chevron # 206145	**Report Revised:**
Dublin CA, 94568	Project Manager: Deanna L. Harding	09-Mar-01 11:31

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3 (W102330-04) Water	**Sampled: 09-Feb-01 11:23**	**Received: 12-Feb-01 16:45**							**P-01**
Purgeable Hydrocarbons	**32000**	5000	ug/l	100	1B20004	17-Feb-01	17-Feb-01	EPA	
Benzene	**11000**	50	"	"	"	"	"	8015M/8020	
Toluene	**3900**	50	"	"	"	"	"	"	
Ethylbenzene	**3200**	50	"	"	"	"	"	"	
Xylenes (total)	**4800**	50	"	"	"	"	"	"	
Methyl tert-butyl ether	**3200**	250	"	"	"	"	"	"	CC-3
Surrogate: a,a,a-Trifluorotoluene		*106 %*	*70-130*		"	"	"	"	
MW-5 (W102330-05) Water	**Sampled: 09-Feb-01 09:32**	**Received: 12-Feb-01 16:45**							
Purgeable Hydrocarbons	ND	50	ug/l	1	1B20004	17-Feb-01	17-Feb-01	EPA	
Benzene	ND	0.50	"	"	"	"	"	8015M/8020	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.5	"	"	"	"	"	"	CC-3
Surrogate: a,a,a-Trifluorotoluene		*98.7 %*	*70-130*		"	"	"	"	
MW-7 (W102330-06) Water	**Sampled: 09-Feb-01 10:00**	**Received: 12-Feb-01 16:45**							
Purgeable Hydrocarbons	ND	50	ug/l	1	1B20004	17-Feb-01	17-Feb-01	EPA	
Benzene	ND	0.50	"	"	"	"	"	8015M/8020	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.5	"	"	"	"	"	"	CC-3
Surrogate: a,a,a-Trifluorotoluene		*107 %*	*70-130*		"	"	"	"	

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6747 Sierra Court Suite J	Project Number: Chevron # 206145	**Report Revised:**
Dublin CA, 94568	Project Manager: Deanna L. Harding	09-Mar-01 11:31

Volatile Organic Compounds by EPA Method 8260B

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (W102330-02) Water Sampled: 09-Feb-01 10:41 Received: 12-Feb-01 16:45									
Ethanol	ND	500	ug/l	1	1B14009	15-Feb-01	15-Feb-01	EPA 8260B	
tert-Butyl alcohol	**340**	50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
tert-Amyl methyl ether	**53**	2.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	2.0	"	"	"	"	"	"	
Ethylene dibromide	ND	2.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*111 %*	*50-150*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*20.4 %*	*50-150*		"	"	"	"	*S-04*
MW-3 (W102330-04) Water Sampled: 09-Feb-01 11:23 Received: 12-Feb-01 16:45									
Ethanol	ND	500	ug/l	1	1B14009	15-Feb-01	15-Feb-01	EPA 8260B	
tert-Butyl alcohol	**2000**	50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
tert-Amyl methyl ether	**35**	2.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	2.0	"	"	"	"	"	"	
Ethylene dibromide	ND	2.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*114 %*	*50-150*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*24.8 %*	*50-150*		"	"	"	"	*S-04*
MW-5 (W102330-05) Water Sampled: 09-Feb-01 09:32 Received: 12-Feb-01 16:45									
Ethanol	ND	500	ug/l	1	1B14009	21-Feb-01	21-Feb-01	EPA 8260B	
tert-Butyl alcohol	ND	50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	2.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	2.0	"	"	"	"	"	"	
Ethylene dibromide	ND	2.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*92.0 %*	*50-150*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*100 %*	*50-150*		"	"	"	"	

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Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT - Quality Control

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1B20004: Prepared 17-Feb-01 Using EPA 5030B [P/T]										
Blank (1B20004-BLK1)										
Purgeable Hydrocarbons	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	2.5	"							
Surrogate: a,a,a-Trifluorotoluene	*30.8*		"	*30.0*		*103*	*70-130*			
LCS (1B20004-BS1)										
Benzene	18.4	0.50	ug/l	20.0		92.0	70-130			
Toluene	19.1	0.50	"	20.0		95.5	70-130			
Ethylbenzene	19.8	0.50	"	20.0		99.0	70-130			
Xylenes (total)	59.0	0.50	"	60.0		98.3	70-130			
Surrogate: a,a,a-Trifluorotoluene	*32.5*		"	*30.0*		*108*	*70-130*			
Matrix Spike (1B20004-MS1)					**Source: W102330-05**					
Benzene	17.5	0.50	ug/l	20.0	ND	87.5	70-130			
Toluene	18.3	0.50	"	20.0	ND	91.5	70-130			
Ethylbenzene	19.2	0.50	"	20.0	ND	96.0	70-130			
Xylenes (total)	57.8	0.50	"	60.0	ND	96.3	70-130			
Surrogate: a,a,a-Trifluorotoluene	*30.4*		"	*30.0*		*101*	*70-130*			
Matrix Spike Dup (1B20004-MSD1)					**Source: W102330-05**					
Benzene	15.4	0.50	ug/l	20.0	ND	77.0	70-130	12.8	20	
Toluene	20.4	0.50	"	20.0	ND	102	70-130	10.9	20	
Ethylbenzene	17.1	0.50	"	20.0	ND	85.5	70-130	11.6	20	
Xylenes (total)	51.1	0.50	"	60.0	ND	85.2	70-130	12.3	20	
Surrogate: a,a,a-Trifluorotoluene	*29.3*		"	*30.0*		*97.7*	*70-130*			

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Dublin CA, 94568	Project Manager: Deanna L. Harding	09-Mar-01 11:31

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1B14009: Prepared 14-Feb-01 Using EPA 5030B [P/T]										
Blank (1B14009-BLK1)										
Ethanol	ND	500	ug/l							
tert-Butyl alcohol	ND	50	"							
Methyl tert-butyl ether	ND	2.0	"							
Di-isopropyl ether	ND	2.0	"							
Ethyl tert-butyl ether	ND	2.0	"							
tert-Amyl methyl ether	ND	2.0	"							
1,2-Dichloroethane	ND	2.0	"							
Ethylene dibromide	ND	2.0	"							
Surrogate: Dibromofluoromethane	*55.7*		"	*50.0*		*111*	*50-150*			
Surrogate: 1,2-Dichloroethane-d4	*51.8*		"	*50.0*		*104*	*50-150*			
Blank (1B14009-BLK2)										
Ethanol	ND	500	ug/l							
tert-Butyl alcohol	ND	50	"							
Methyl tert-butyl ether	ND	2.0	"							
Di-isopropyl ether	ND	2.0	"							
Ethyl tert-butyl ether	ND	2.0	"							
tert-Amyl methyl ether	ND	2.0	"							
1,2-Dichloroethane	ND	2.0	"							
Ethylene dibromide	ND	2.0	"							
Surrogate: Dibromofluoromethane	*54.8*		"	*50.0*		*110*	*50-150*			
Surrogate: 1,2-Dichloroethane-d4	*49.8*		"	*50.0*		*99.6*	*50-150*			
Blank (1B14009-BLK3)										
Ethanol	ND	500	ug/l							
tert-Butyl alcohol	ND	50	"							
Methyl tert-butyl ether	ND	2.0	"							
Di-isopropyl ether	ND	2.0	"							
Ethyl tert-butyl ether	ND	2.0	"							
tert-Amyl methyl ether	ND	2.0	"							
1,2-Dichloroethane	ND	2.0	"							
Ethylene dibromide	ND	2.0	"							

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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1B14009: Prepared 21-Feb-01 Using EPA 5030B [P/T]										
Blank (1B14009-BLK3)										
Surrogate: Dibromofluoromethane	*46.0*		*ug/l*	*50.0*		*92.0*	*50-150*			
Surrogate: 1,2-Dichloroethane-d4	*50.0*		*"*	*50.0*		*100*	*50-150*			
LCS (1B14009-BS1)										
Methyl tert-butyl ether	58.0	2.0	ug/l	50.0		116	70-130			
Surrogate: Dibromofluoromethane	*56.1*		*"*	*50.0*		*112*	*50-150*			
Surrogate: 1,2-Dichloroethane-d4	*51.1*		*"*	*50.0*		*102*	*50-150*			
LCS (1B14009-BS2)										
Methyl tert-butyl ether	54.7	2.0	ug/l	50.0		109	70-130			
Surrogate: Dibromofluoromethane	*55.8*		*"*	*50.0*		*112*	*50-150*			
Surrogate: 1,2-Dichloroethane-d4	*49.6*		*"*	*50.0*		*99.2*	*50-150*			
LCS (1B14009-BS3)										
Methyl tert-butyl ether	46.5	2.0	ug/l	50.0		93.0	70-130			
Surrogate: Dibromofluoromethane	*47.0*		*"*	*50.0*		*94.0*	*50-150*			
Surrogate: 1,2-Dichloroethane-d4	*49.0*		*"*	*50.0*		*98.0*	*50-150*			
Matrix Spike (1B14009-MS1)					**Source: W102289-05**					
Methyl tert-butyl ether	50.6	2.0	ug/l	50.0	ND	101	60-150			
Surrogate: Dibromofluoromethane	*58.0*		*"*	*50.0*		*116*	*50-150*			
Surrogate: 1,2-Dichloroethane-d4	*52.0*		*"*	*50.0*		*104*	*50-150*			
Matrix Spike Dup (1B14009-MSD1)					**Source: W102289-05**					
Methyl tert-butyl ether	61.3	2.0	ug/l	50.0	ND	123	60-150	19.1	25	
Surrogate: Dibromofluoromethane	*58.0*		*"*	*50.0*		*116*	*50-150*			
Surrogate: 1,2-Dichloroethane-d4	*51.1*		*"*	*50.0*		*102*	*50-150*			

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Notes and Definitions

CC-3	Continuing Calibration indicates that the quantitative result for this analyte includes a greater than 15% degree of uncertainty. The value as reported is within method acceptance.
P-01	Chromatogram Pattern: Gasoline C6-C12
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Dimple Sharma For Charlie Westwater, Project Manager