



GETTLER-RYAN INC.

TRANSMITTAL

February 1, 2002

G-R #385145

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
#9-1851
451 Hegenberger Road
Oakland, California**

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DATED	DESCRIPTION
1	January 21, 2002	Groundwater Monitoring and Sampling Report Fourth Quarter - Event of December 10, 2001

COMMENTS:

This report is being sent for your review. Please provide any comments/changes and propose any groundwater monitoring modifications for the next event prior to **February 18, 2002**, at which time the final report will be distributed to the following:

cc: **Mr. Barney Chan**, Alameda County Health Care Services, Dept. of Environmental Health, 1131 Harbor Bay Parkway, Suite 250, Alameda, CA 94502-6577
Mr. Greg Gurs, Gettler-Ryan Inc., 3140 Gold Camp Drive, Suite 170, Rancho Cordova, CA 95670
Mr. Ben Shimek, 451 Hegenberger Road, Oakland, CA 94621

Enclosures

trans/9-1851-TB



GETTLER-RYAN INC.

January 21, 2002
G-R Job #385145

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

RE: Fourth Quarter Event of December 10, 2001
Groundwater Monitoring & Sampling Report
Chevron Service Station #9-1851
451 Hegenberger Road
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

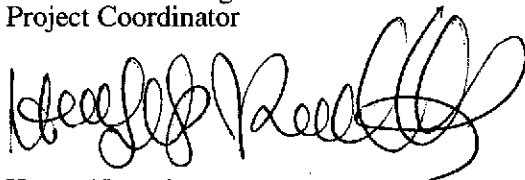
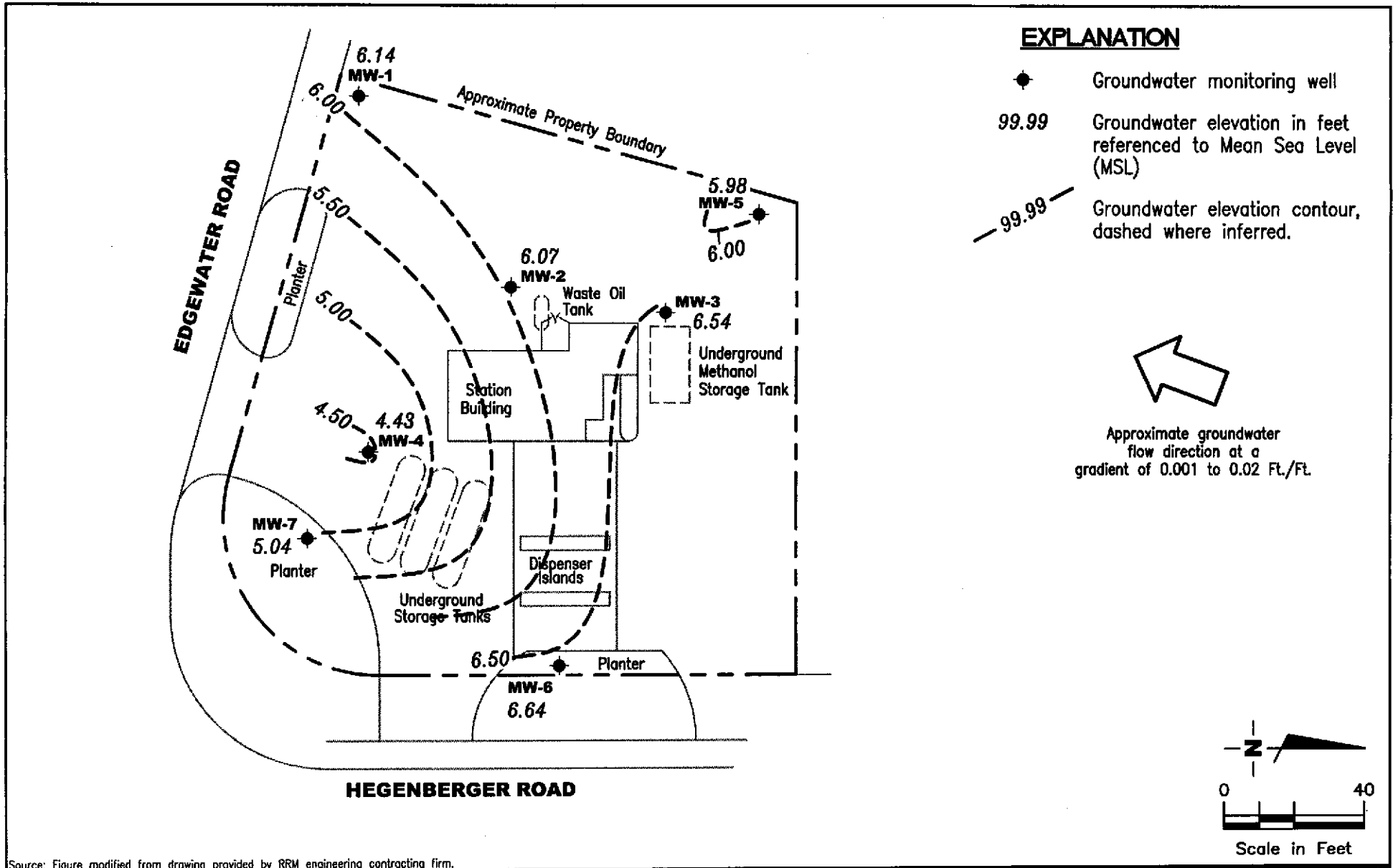

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P.E. No. C55734



Figure 1: Potentiometric Map
Table 1: Groundwater Monitoring Data and Analytical Results
Table 2: Groundwater Analytical Results - Oxygenate Compounds
Table 3: Groundwater Analytical Results
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 Service Station #9-1851
 451 Hegenberger Road
 Oakland, California

FIGURE
1

PROJECT NUMBER
 385145

REVIEWED BY

DATE
 December 10, 2001

REVISED DATE

Table 1
Groundwater Monitoring Data and Analytical Results
Chevron Service Station #9-1851
451 Hegenberger Road
Oakland, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-1										
10/17/95	2.61	-1.51	4.12	--	<50	<0.5	<0.5	<0.5	<0.5	--
03/29/96	2.61	-0.72	3.33	--	<50	<0.5	<0.5	<0.5	<0.5	9.5
06/26/96	2.61	-1.23	3.84	--	<50	<0.5	<0.5	<0.5	<0.5	46
09/25/96	2.61	-1.41	4.02	--	<250	<2.5	<2.5	<2.5	<2.5	940
12/17/96	2.61	-0.96	3.57	--	<50	0.9	<0.5	<0.5	<0.5	260
03/20/97	2.61	-1.54	4.15	--	<50	<2.0	<2.0	<2.0	<2.0	76
06/20/97	2.61	-1.72	4.33	--	<50	<0.5	<0.5	<0.5	<0.5	64
09/09/97	2.61	-1.74	4.35	--	<50	<0.5	<0.5	<0.5	<0.5	110
12/12/97	2.61	-0.39	3.00	--	<50	<0.5	<0.5	<0.5	<0.5	27
02/19/98	2.61	0.78	1.83	--	<50	<0.5	<0.5	<0.5	<0.5	14
06/23/98	2.61	-0.73	3.34	--	210	<0.5	<0.5	<0.5	<0.5	3,400
08/31/98	2.61	-0.88	3.49	--	1,400	630	<5.0	<5.0	<5.0	16,000
12/29/98	2.61	-1.22	3.83	--	<500	<5.0	<5.0	<5.0	<5.0	1,090
03/11/99	2.61	-0.43	3.04	--	<50	<0.5	<0.5	<0.5	<0.5	33.9
06/24/99	2.61	-0.77	3.38	--	<500	65.7	<5.0	<5.0	<5.0	1,160
09/29/99	2.61	-1.01	3.62	--	81.7	<0.5	<0.5	<0.5	<0.5	1,130
12/08/99	2.61	-1.46	4.07	--	<50	<0.5	<0.5	<0.5	<0.5	233
03/01/00	2.61	0.66	1.95	--	100	<0.5	<0.5	<0.5	<0.5	37.9
06/19/00	2.61	-0.80	3.41	--	<50	3.8	<0.50	<0.50	<0.50	88/91 ²
09/30/00	2.61	-1.23	3.84	--	<130	<1.3	<1.3	<1.3	<1.3	460/530 ²
10/05/00	2.61	-1.32	3.93	--	--	--	--	--	--	--
12/08/00	8.61	4.41	4.20	--	<50.0	<0.500	<0.500	<0.500	<0.500	58.7
03/03/01 ¹¹	8.61	6.30	2.31	--	<50	<0.50	<0.50	<0.50	<0.50	8.9
06/19/01	8.61	5.27	3.34	--	<50	<0.50	<0.50	<0.50	<0.50	51
09/05/01	8.61	4.84	3.77	--	<50	<0.50	<0.50	<0.50	<1.5	180
12/10/01	8.61	6.14	2.47	--	<50	<0.50	<0.50	<0.50	<1.5	21

Table 1
Groundwater Monitoring Data and Analytical Results
Chevron Service Station #9-1851
451 Hegenberger Road
Oakland, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-2										
10/17/95 ³	3.51	-1.82	5.33	1,600 ⁴	170	3.5	<0.5	1.0	6.1	--
03/29/96	3.51	-0.44	3.95	3,000 ⁴	89	4.7	<0.5	0.64	0.74	21
06/26/96	3.51	-1.09	4.60	2,000 ⁴	80	8.7	<0.5	1.2	1.3	31
09/25/96	3.51	INACCESSIBLE	--	--	--	--	--	--	--	--
12/17/96	3.51	-0.41	3.92	2,400 ⁴	110	<0.5	<0.5	0.75	2.1	27
03/20/97	3.51	-1.32	4.83	3,400 ⁴	140	8.2	<2.0	<2.0	<2.0	58
06/20/97	3.51	-1.53	5.04	1,600 ⁴	62	7.7	<0.5	<0.5	<0.5	38
09/09/97	3.51	-1.47	4.98	82 ⁴	190	9.4	<0.5	<0.5	0.86	48
12/12/97	3.51	-0.40	3.91	8,500 ⁴	180	1.8	<0.5	<0.5	3.2	34
02/19/98	3.51	0.55	2.96	3,800 ⁴	<100	1.8	<1.0	<1.0	<1.0	230
06/23/98	3.51	-0.54	4.05	--	60	<0.5	<0.5	<0.5	<0.5	55
08/31/98	3.51	-0.80	4.31	--	61	2.2	<0.5	<0.5	1.1	53
12/29/98	3.51	-1.12	4.63	--	54	1.3	<0.5	<0.5	0.752	38.1
03/11/99	3.51	-0.01	3.52	--	648	2.9	<2.0	<2.0	<2.0	73.2
06/24/99	3.51	-0.49	4.00	--	264	.58	<0.5	1.01	<0.5	44.1
09/29/99	3.51	-0.93	4.44	--	54.3	.66	<0.5	<0.5	<0.5	35.7
12/08/99	3.51	-1.38	4.89	--	<50	1.27	<0.5	<0.5	<0.5	56.9
03/01/00	3.51	0.48	3.03	--	68	1.57	<0.5	<0.5	<0.5	110
06/19/00	3.51	-0.66	4.17	--	58 ¹	1.5	<0.50	<0.50	<0.50	90/59 ²
09/30/00	3.51	-1.15	4.66	--	<50	<0.50	0.82	<0.50	1.1	48/50 ²
10/05/00 ^{8,9}	3.51	-1.20	4.71	4,000 ⁷	--	--	--	--	--	--
12/08/00	9.52	4.55	4.97	--	<50.0	<0.500	<0.500	<0.500	<0.500	61.8
03/03/01 ¹¹	9.52	6.25	3.27	--	310 ¹²	0.60	<0.50	<0.50	1.3	97
06/19/01	9.52	5.47	4.05	--	<50	<0.50	<0.50	<0.50	<0.50	30
09/05/01	9.52	4.98	4.54	--	<50	<0.50	1.2	<0.50	<1.5	46
12/10/01	9.52	6.07	3.45	--	<50	<0.50	<0.50	<0.50	<1.5	22

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451 Hegenberger Road
Oakland, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-3										
10/17/95 ⁵	3.08	-1.34	4.42	--	<50	<0.5	<0.5	<0.5	<0.5	--
03/29/96	3.08	0.08	3.00	--	<50	<0.5	<0.5	<0.5	<0.5	26
06/26/96	3.08	-0.52	3.60	--	<50	<0.5	<0.5	<0.5	<0.5	47
09/25/96	3.08	-1.06	4.14	--	<125	<1.2	<1.2	<1.2	<1.2	570
12/17/96	3.08	-0.12	3.20	--	<500	<5.0	<5.0	<5.0	<5.0	680
03/20/97	3.08	-0.22	3.30	--	<50	<5.7	<5.7	<5.7	<5.7	430
06/20/97	3.08	-0.78	3.86	--	<500	<5.0	<5.0	<5.0	<5.0	1,400
09/09/97	3.08	-1.11	4.19	--	76 ⁴	22	<0.5	<0.5	<0.5	920
12/12/97	3.08	0.12	2.96	--	52	15	<0.5	<0.5	<0.5	710
02/19/98	3.08	0.86	2.22	--	<50	6.6	<0.5	<0.5	<0.5	380
06/23/98	3.08	-0.17	3.25	--	<50	<0.5	<0.5	<0.5	<0.5	390
08/31/98	3.08	-0.78	3.86	--	<50	19	<0.5	<0.5	<0.5	830
12/29/98	3.08	-0.45	3.53	--	<250	<2.5	<2.5	<2.5	<2.5	416
03/11/99	3.08	-0.27	3.35	--	<50	<0.5	<0.5	<0.5	<0.5	262
06/24/99	3.08	-0.53	3.61	--	<50	12.8	<0.5	<0.5	<0.5	620
09/29/99	3.08	-0.87	3.95	--	<50	<0.5	<0.5	<0.5	<0.5	2,840
12/08/99	3.08	-0.46	3.54	--	73.4	<0.5	<0.5	<0.5	<0.5	1,620
03/01/00	3.08	0.65	2.43	--	<200	<2.0	<2.0	<2.0	<2.0	1,880
06/19/00	3.08	-0.30	3.38	--	<250	20	<2.5	<2.5	<2.5	1,200/920 ²
09/30/00	3.08	-0.92	4.00	--	<250	<2.5	<2.5	<2.5	<2.5	730/2,100 ²
10/05/00	3.08	-0.94	4.02	--	--	--	--	--	--	--
12/08/00	9.08	5.38	3.70	--	<50.0	<0.500	<0.500	<0.500	<0.500	1,620
03/03/01 ¹¹	9.08	6.84	2.24	--	<50	<0.50	<0.50	<0.50	<0.50	1,000
06/19/01	9.08	5.37	3.71	--	<120	4.8	<1.2	<1.2	<1.2	510
09/05/01	9.08	5.04	4.04	--	130	<0.50	<0.50	<0.50	<1.5	1,400
12/10/01	9.08	6.54	2.54	--	130	<0.50	<0.50	<0.50	<1.5	1,000

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Chevron Service Station #9-1851
451 Hegenberger Road
Oakland, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-4										
10/17/95	3.48	-1.60	5.08	--	<125	<1.2	<1.2	<1.2	<1.2	--
03/29/96	3.48	-1.13	4.61	--	<1,000	<10	<10	<10	<10	6,700
06/26/96	3.48	-0.82	4.30	--	<2,000	<20	<20	<20	<20	7,200
09/25/96	3.48	-1.85	5.33	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
12/17/96	3.48	0.67	2.81	--	<2,000	120	<20	<20	<20	11,000
03/20/97	3.48	-1.02	4.50	--	250 ⁴	<2.0	<2.0	<2.0	<2.0	10,000/8,600 ⁶
06/20/97	3.48	-2.20	5.68	--	<2,500	<25	<25	<25	<25	9,300
09/09/97	3.48	-2.02	5.50	--	460 ⁴	<0.5	<0.5	<0.5	<0.5	6,600
12/12/97	3.48	-1.55	5.03	--	430 ⁴	120	<2.5	<2.5	<2.5	7,800
02/19/98	3.48	0.13	3.35	--	510 ⁴	130	<0.5	<0.5	<0.5	6,600
06/23/98	3.48	-1.50	4.98	--	550 ⁴	<0.5	<0.5	<0.5	<0.5	6,800
08/31/98	3.48	-1.94	5.42	--	<500	450	<5.0	<5.0	<5.0	14,000
12/29/98	3.48	-1.58	5.06	--	<5,000	<50	<50	<50	<50	16,100
03/11/99	3.48	-0.30	3.78	--	979	<5.0	<5.0	<5.0	<5.0	15,100
06/24/99	3.48	-0.83	4.31	--	<2,500	715	<25	<25	<25	12,400
09/29/99	3.48	-2.10	5.58	--	1,380	<5.0	<5.0	<5.0	<5.0	11,700
12/08/99	3.48	-1.85	5.33	--	318	<0.5	<0.5	<0.5	<0.5	11,100
03/01/00	3.48	-1.72	5.20	--	<50	<0.5	<0.5	<0.5	<0.5	9,940
06/19/00	3.48	-1.88	5.36	--	<1,000	220	<10	<10	<10	7,300/9,500 ²
09/30/00	3.48	-0.29	3.77	--	740 ¹	<2.5	<2.5	<2.5	<2.5	6,000/7,800 ²
10/05/00	3.48	-0.38	3.86	--	--	--	--	--	--	--
12/08/00	9.48	5.03	4.45	--	<50.0	<0.500	<0.500	<0.500	<0.500	6,230
03/03/01 ¹¹	9.48	5.65	3.83	--	<250	<2.5	<2.5	<2.5	<2.5	3,600
06/19/01	9.48	6.11	3.37	--	<500	140	<5.0	<5.0	<5.0	2,500
09/05/01	9.48	5.52	3.96	--	400	<0.50	<0.50	<0.50	<1.5	2,800
12/10/01	9.48	4.43	5.05	--	700	<0.50	<0.50	<0.50	<1.5	3,400

Table 1
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Chevron Service Station #9-1851
451 Hegenberger Road
Oakland, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-5										
10/23/00 ¹⁰	8.77	4.18	4.59	--	<50	<0.500	<0.500	<0.500	<0.500	4.34
12/08/00	8.77	5.34	3.43	--	<50.0	<0.500	<0.500	<0.500	<0.500	11.0
03/03/01 ¹¹	8.77	6.37	2.40	--	<50	<0.50	<0.50	<0.50	<0.50	24
06/19/01	8.77	INACCESSIBLE - CAR PARKED OVER WELL			--	--	--	--	--	--
09/05/01	8.77	5.02	3.75	--	<50	<0.50	<0.50	<0.50	<1.5	31
12/10/01	8.77	5.98	2.79	--	<50	<0.50	<0.50	<0.50	<1.5	45
MW-6										
10/23/00 ¹⁰	11.45	4.30	7.15	--	<50	<0.500	<0.500	<0.500	<0.500	5.96
12/08/00	11.45	4.61	6.84	--	<50.0	<0.500	<0.500	<0.500	<0.500	8.80
03/03/01 ¹¹	11.45	5.32	6.13	--	<50	<0.50	<0.50	<0.50	<0.50	9.0
06/19/01	11.45	5.65	5.80	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
09/05/01	11.45	6.29	5.16	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
12/10/01	11.45	6.64	4.81	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
MW-7										
10/23/00 ¹⁰	10.58	4.33	6.25	--	<50	<0.500	<0.500	<0.500	<0.500	1,210
12/08/00	10.58	3.35	7.23	--	<50.0	<0.500	<0.500	<0.500	<0.500	338
03/03/01 ¹¹	10.58	4.31	6.27	--	72 ¹²	<0.50	<0.50	<0.50	<0.50	460
06/19/01	10.58	4.76	5.82	--	110 ¹	18	<0.50	<0.50	<0.50	440
09/05/01	10.58	4.04	6.54	--	180	<0.50	<0.50	<0.50	<1.5	640
12/10/01	10.58	5.04	5.54	--	110	<0.50	<0.50	<0.50	<1.5	390
TRIP BLANK										
10/17/95	--	--	--	--	--	--	--	--	--	--
03/29/96	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
06/26/96	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
09/25/96	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5

Table 1
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WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
TRIP BLANK (cont)										
12/17/96	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
03/20/97	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
06/20/97	--	--	--	--	<50	<2.0	<2.0	<2.0	<2.0	--
09/09/97	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
12/12/97	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
02/19/98	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
06/23/98	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
08/31/98	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
12/29/98	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.0
03/11/99	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0
06/24/99	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0
09/29/99	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
12/08/99	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0
03/01/00	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
06/19/00	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
09/30/00	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
10/05/00	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
12/08/00	--	--	--	--	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50
03/03/01 ¹¹	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
06/19/01	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
09/05/01	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
QA										
12/10/01	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5

Table 1
Groundwater Monitoring Data and Analytical Results
Chevron Service Station #9-1851
451 Hegenberger Road
Oakland, California

EXPLANATIONS:

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

TOC = Top of Casing (ft.) = Feet	TPH-D = Total Petroleum Hydrocarbons as Diesel TPH-G = Total Petroleum Hydrocarbons as Gasoline	X = Xylenes MTBE = Methyl tertiary butyl ether (ppb) = Parts per billion
GWE = Groundwater Elevation (msl) = Mean sea level	B = Benzene T = Toluene	-- = Not Measured/Not Analyzed
DTW = Depth to Water	E = Ethylbenzene	QA = Quality Assurance

- * TOC elevations were surveyed on November 15, 2000, by Virgil Chavez Land Surveying. The benchmark for the survey was the letter "O" in Oakland on an inlet in the westerly curb of Oakport Road, 150' southerly of the end of curve. (Benchmark Elevation = 7.82 feet, msl).
- 1 Laboratory report indicates gasoline C6-C12.
- 2 MTBE by EPA Method 8260.
- 3 Results of EPA 8010 test indicates that the detection of 1,1-Dichloroethane (1,1-DCA) was detected at 1.7 ppb.
- 4 Chromatogram pattern indicates an unidentified hydrocarbon.
- 5 Results of EPA 8015 test indicates that levels of Methanol and Methyl ethyl ketone are respectively <1000 and <200 ppb.
- 6 Confirmation run.
- 7 Laboratory report indicates unidentified hydrocarbons >C16.
- 8 Sample analyzed for Total Metals by EPA 200 Series Methods. All Analytes were less then the reporting limit except for Nickel was detected at 0.067 ppm and Zinc was detected at 0.024ppm.
- 9 Laboratory report indicates that Semi-Volatile Organic Compounds (SVOCs) by EPA Method 8270 were all less then the reporting limit except for Bis(2-ethylhexyl)phthalate was detected at 14 ppb, which may be a possible contamination.
- 10 Data was provided by Delta Environmental Consultants, Inc.
- 11 Laboratory report indicates sample was analyzed outside the EPA recommended holding time.
- 12 Laboratory report indicates unidentified hydrocarbons C6-C12.

Table 2
Groundwater Analytical Results - Oxygenate Compounds
Chevron Service Station #9-1851
451 Hegenberger Road
Oakland, California

WELL ID/ DATE	ETHANOL (ppb)	TBA (ppb)	MTBE (ppb)	DIPE (ppb)	ETBE (ppb)	TAME (ppb)
MW-1						
06/23/98	<50,000	<10,000	4,500	<200	<200	<200
08/31/98	--	--	17,000	--	--	--
03/11/99	--	--	54.1	--	--	--
06/24/99	<10,000	<2,000	1,800	<20	<20	258
06/19/00	<500	<100	91	<2.0	<2.0	11
09/30/00	--	--	530	--	--	--
MW-2						
06/23/98	<500	<100	56	<2.0	<2.0	<2.0
03/11/99	--	--	101	--	--	--
06/24/99	<1,000	<200	52.5	<2.0	<2.0	<2.0
06/19/00	<500	<100	59	<2.0	<2.0	4.0
09/30/00	--	--	50	--	--	--
MW-3						
06/23/98	<5,000	<1,000	420	<20	<20	26
03/11/99	--	--	580	--	--	--
06/24/99	<6,670	<1,330	900	<13.3	<13.3	<13.3
06/19/00	570	<100	920	<2.0	<2.0	65
09/30/00	--	--	2,100	--	--	--
MW-4						
06/23/98	<50,000	<10,000	11,000	<200	<200	860
03/11/99	--	--	17,600	--	--	--
06/24/99	<125,000	<25,000	17,000	<250	<250	2600
06/19/00	<25,000	<5,000	9,500	<100	<100	1,100
09/30/00	--	--	7,800	--	--	--

Table 2
Groundwater Analytical Results - Oxygenate Compounds
Chevron Service Station #9-1851
451 Hegenberger Road
Oakland, California

WELL ID/ DATE	ETHANOL (ppb)	TBA (ppb)	MTBE (ppb)	DIPE (ppb)	ETBE (ppb)	TAME (ppb)
MW-5 10/23/00	<1,000	<100	4.34	<2.00	<2.00	<2.00
MW-6 10/23/00	<1,000	<100	5.96	<2.00	<2.00	<2.00
MW-7 10/23/00	<6,670	<667	1,210	13.3	13.3	199
TRIP BLANK 03/11/99	--	--	<2.0	--	--	--

EXPLANATIONS:

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

TBA = Tertiary butyl alcohol

MTBE = Methyl tertiary butyl ether

DIPE = Di-isopropyl ether

ETBE = Ethyl tertiary butyl ether

TAME = Tertiary amyl methyl ether

(ppb) = Parts per billion

-- = Not Analyzed

Table 3
Groundwater Analytical Results
Chevron Service Station #9-1851
451 Hegenberger Road
Oakland, California

WELL ID/ DATE	TOG (ppb)	Benzene by (EPA 8240) (ppb)	Xylene by (EPA 8240) (ppb)	C-1,2- DCE (ppb)	Carbon Disulfide (ppb)	Vinyl Chloride (ppb)
MW-2						
10/17/95	<5,000	--	--	11	--	--
03/29/96	--	11	2.5	17	--	5.4
06/26/96	--	11	<2.0	15	--	12
09/25/96	--	--	--	--	--	--
12/17/96	--	10	<2.0	2.3	--	5.5
03/20/97	--	--	--	<2.0	--	3.2
06/20/97	--	7.2	<2.0	4.6	2.2	5.2
09/09/97	--	11	<2.0	<2.0	<2.0	<2.0
12/12/97	--	<2.0	<2.0	<2.0	<2.0	<2.0
02/19/98	--	<3.3	<3.3	<3.3	<3.3	<3.3

EXPLANATIONS:

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

TOG = Total Oil and Grease

c-1,2-DCE = cis-1,2-Dichloroethene

(ppb) = Parts per billion

-- = Not Analyzed

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/ CHEVRON

Facility # 9-1851

Job#: 385145

Address: 451 Hegenberg Rd.

Date: 12-10-01

City: Oakland, CA

Sampler: FB

Well ID MW-1

Well Condition: OK

Well Diameter 2 in.

Hydrocarbon Thickness: ∅ (feet) Amount Bailed (product/water): ∅ (Gallons)

Total Depth 14.42 ft.

Depth to Water 2.47 ft.

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

11.95 x VF 17 = 2.03 x 3 (case volume) = Estimated Purge Volume: 6.0 (gal.)

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

Sampling Equipment: Disposable Bailer
 Bailer
 Pressure Bailer
 Grab Sample
 Other: _____

Starting Time: 0951

Weather Conditions: clear

Sampling Time: 1013

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 μ mhos/cm	Temperature $^{\circ}$ C	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>0955</u>	<u>2</u>	<u>7.08</u>	<u>651</u>	<u>17.0</u>			
<u>1000</u>	<u>4</u>	<u>7.04</u>	<u>638</u>	<u>17.4</u>			
<u>1004</u>	<u>6</u>	<u>7.03</u>	<u>630</u>	<u>17.4</u>			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-1</u>	<u>3 VOA VIALS</u>	<u>Y</u>	<u>HCL</u>	<u>LANCASTER</u>	<u>TPH(G)/btex/mtbe</u>

COMMENTS: _____

**WELL MONITORING/SAMPLING
FIELD DATA SHEET**

Client/ CHEVRON

Facility # 9-1851

Job#: 385145

Address: 451 Hegenbarger Rd.

Date: 12-10-01

City: Oakland, CA

Sampler: FB

Well ID MW-2

Well Condition: OK

Well Diameter 2 in.

Hydrocarbon Thickness: φ (feet) Amount Bailed φ (Gallons)
(product/water):

Total Depth 14.73 ft.

Depth to Water 3.45 ft.

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

11.28 X VF 17 = 191 X 3 (case volume) = Estimated Purge Volume: 6 (gal.)

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

Sampling Equipment: Disposable Bailer
Bailer
Pressure Bailer
Grab Sample
Other: _____

Starting Time: 1030

Weather Conditions: clear

Sampling Time: 1050

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 μ mhos/cm	Temperature $^{\circ}$ C	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>1034</u>	<u>2</u>	<u>6.90</u>	<u>811</u>	<u>17.7</u>			
<u>1038</u>	<u>4</u>	<u>6.93</u>	<u>804</u>	<u>17.9</u>			
<u>1042</u>	<u>6</u>	<u>6.93</u>	<u>790</u>	<u>17.7</u>			

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-2</u>	<u>3 X 400 VIALS</u>	<u>Y</u>	<u>HCL</u>	<u>LANCASTER</u>	<u>TPH(G)/btex/mtbe</u>

COMMENTS: _____

**WELL MONITORING/SAMPLING
FIELD DATA SHEET.**

Client/ CHEVRON

Facility # 9-1851

Job#: 385145

Address: 451 Hegenberger Rd.

Date: 12-10-01

City: Oakland, CA

Sampler: FB

Well ID mw-3

Well Condition: OK

Well Diameter 2 in.

Hydrocarbon Thickness: φ (feet) Amount Bailed (product/water): φ (Gallons)

Total Depth 14.49 ft.

Depth to Water 2.54 ft.

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

11.95 x VF 17 = 2.03 x 3 (case volume) = Estimated Purge Volume: 6 (gal.)

Purge Equipment:

- Disposable Bailer
- Bailer
- Stack
- Suction
- Grundfos
- Other: _____

Sampling Equipment:

- Disposable Bailer
- Bailer
- Pressure Bailer
- Grab Sample
- Other: _____

Starting Time: 1105

Weather Conditions: clear

Sampling Time: 1128

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 μ mhos/cm	Temperature $^{\circ}$ C	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>1110</u>	<u>2</u>	<u>7.60</u>	<u>786</u>	<u>17.8</u>			
<u>1114</u>	<u>4</u>	<u>7.60</u>	<u>780</u>	<u>17.0</u>			
<u>1119</u>	<u>6</u>	<u>7.58</u>	<u>778</u>	<u>17.1</u>			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>mw-3</u>	<u>3 VOA VIALS</u>	<u>Y</u>	<u>HCL</u>	<u>LANCASTER</u>	<u>TPH(G)/btex/mtbe</u>

COMMENTS: _____

**WELL MONITORING/SAMPLING
FIELD DATA SHEET.**

Client/CHEVRON
Facility # 9-1851
Address: 451 Hegenbarger Rd.
City: Oakland, CA

Job#: 385145
Date: 12-10-01
Sampler: FB

Well ID: mw-4
Well Diameter: 2 in.
Total Depth: 14.88 ft.
Depth to Water: 5.05 ft.

Well Condition: OK

Hydrocarbon Thickness:	Amount Bailed (product/water):	(Gallons)
2" = 0.17	3" = 0.38	4" = 0.66
6" = 1.50	12" = 5.80	

9.83 x VF 1.7 = 1.67 x 3 (case volume) = Estimated Purge Volume: 5 (gal.)

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

Sampling Equipment: Disposable Bailer
Bailer
Pressure Bailer
Grab Sample
Other: _____

Starting Time: 1328
Sampling Time: 1347
Purging Flow Rate: _____ gpm.
Did well de-water? NO

Weather Conditions: clear
Water Color: clear Odor: NO
Sediment Description: _____
If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity μ mhos/cm	Temperature $^{\circ}$ C	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>1322</u>	<u>2</u>	<u>7.34</u>	<u>731</u>	<u>21.2</u>			
<u>1336</u>	<u>4</u>	<u>7.34</u>	<u>739</u>	<u>21.0</u>			
<u>1339</u>	<u>5</u>	<u>7.32</u>	<u>748</u>	<u>21.2</u>			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>mw-4</u>	<u>3 VOAVIALS</u>	<u>Y</u>	<u>HCL</u>	<u>LANCASTER</u>	<u>TPH(G)/btex/mtbe</u>

COMMENTS: _____

**WELL MONITORING/SAMPLING
FIELD DATA SHEET.**

Client/ CHEVRON

Facility # 9-1851

Job#: 385145

Address: 451 Hegenberger Rd.

Date: 12-10-01

City: Oakland, CA

Sampler: FB

Well ID mw-5

Well Condition: OK

Well Diameter 2 in.

Hydrocarbon Thickness: ∅ (feet) Amount Bailed (product/water): ∅ (Gallons)

Total Depth 9.82 ft.

Depth to Water 2.79 ft.

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

7.03 x VF 1.7 = 1.19 x 3 (case volume) = Estimated Purge Volume: 3.5 (gal.)

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

Sampling Equipment: Disposable Bailer
Bailer
Pressure Bailer
Grab Sample
Other: _____

Starting Time: 1144

Weather Conditions: clear

Sampling Time: 1200

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 μ hos/cm	Temperature $^{\circ}$ C	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>1147</u>	<u>1</u>	<u>6.80</u>	<u>1094</u>	<u>18.2</u>			
<u>1149</u>	<u>2</u>	<u>6.84</u>	<u>1040</u>	<u>18.2</u>			
<u>1152</u>	<u>3.5</u>	<u>6.83</u>	<u>1036</u>	<u>18.3</u>			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>mw-5</u>	<u>3 NOA VIALS</u>	<u>Y</u>	<u>HCL</u>	<u>LANCASTER</u>	<u>TPH(G)/btex/mtbe</u>

COMMENTS: _____

**WELL MONITORING/SAMPLING
FIELD DATA SHEET.**

Client/CHEVRON

Facility # 9-1851

Job#: 385145

Address: 451 Hegenberger Rd.

Date: 12/00/01

City: Oakland, CA

Sampler: FB

Well ID MW-6

Well Condition: OK

Well Diameter 2 in.

Hydrocarbon Thickness: ∅ (feet) Amount Bailed (product/water): ∅ (Gallons)

Total Depth 9.79 ft.

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

Depth to Water 4.81 ft.

4.98 x VF 17 = 84.6 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: 1219

Weather Conditions: clear

Sampling Time: 1235

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 μ mhos/cm	Temperature $^{\circ}$ C	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
1222	1	8.13	8550	15.8			
1225	2	8.16	538	16.1			
1227	2.5	8.16	534	16.0			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-6	3 VOAIALS	Y	HCl	LANCASTER	TPH(GI)/btex/mtbe

COMMENTS: _____

**WELL MONITORING/SAMPLING
FIELD DATA SHEET**

Client/ CHEVRON

Facility # 9-1851

Job#: 385145

Address: 451 Hegenbarger Rd.

Date: 12-10-01

City: Oakland, CA

Sampler: FB

Well ID MW-7

Well Condition: OK

Well Diameter 2 in.

Hydrocarbon Thickness: ∅ (feet) Amount Bailed (product/water): ∅ (Gallons)

Total Depth 13.07 ft.

Depth to Water 5.54 ft.

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

7.53 x VF 1.7 = 1.25 x 3 (case volume) = Estimated Purge Volume: 4 (gal.)

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

Sampling Equipment: Disposable Bailer
Bailer
Pressure Bailer
Grab Sample
Other: _____

Starting Time: 1252

Weather Conditions: clear

Sampling Time: 1310

Water Color: clear Odor: slight

Purging Flow Rate: _____ gpm.

Sediment Description: _____

Did well de-water? NO

If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity μ hos/cm	Temperature $^{\circ}$ C	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>1255</u>	<u>1.5</u>	<u>7.28</u>	<u>452</u>	<u>18.4</u>			
<u>1258</u>	<u>3.0</u>	<u>7.27</u>	<u>471</u>	<u>18.6</u>			
<u>1301</u>	<u>4.0</u>	<u>7.28</u>	<u>477</u>	<u>18.6</u>			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-7</u>	<u>3 VOAVIALS</u>	<u>Y</u>	<u>HCL</u>	<u>LANCASTER</u>	<u>TPH(G)/btex/mtbe</u>

COMMENTS: _____

Chevron California Region Analysis Request/Chain of Custody



For Lancaster Laboratories use only

Acct. #: 10905 Sample #: 3744531-38 SCR#: _____

12/20/01 - 007

Facility #: <u>9-1851</u> Job # <u>385145</u> Global ID # <u>T0600102238</u> Site Address: <u>451 HEGENBERGER RD., OAKLAND, CA</u> Chevron POC: <u>Tom Bauhs</u> Lead Consultant: <u>Delta/G-R</u> Consultant/Office: <u>G-R, Inc., 6747 Sierra Court, Dublin, Ca 94568</u> Consultant Prj. Mgr.: <u>Deanna L. Harding</u> (<u>Deanna@grinc.com</u>) Consultant Phone: <u>925-551-7555</u> Fax # <u>925-551-7899</u> Sampler: <u>F BOHNET</u> Service Order #: _____ <input type="checkbox"/> Non SAR: _____	Matrix Potable <input type="checkbox"/> NPDES <input type="checkbox"/> Water <input type="checkbox"/> Oil <input type="checkbox"/> Air <input type="checkbox"/>	Total Number of Containers: _____	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2">Analyses Requested</th> <th colspan="6">Preservation Codes</th> </tr> <tr> <td style="text-align: center;">H</td> <td style="text-align: center;">H</td> <td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>BTEX + MTBE 8260 <input checked="" type="checkbox"/> 8021 <input checked="" type="checkbox"/></td> <td>TPH 8015 MOD GRO</td> <td>TPH 8015 MOD DRO</td> <td><input type="checkbox"/> Silica Gel Cleanup</td> <td>8260 full scan</td> <td>Oxygenates</td> <td>Lead 7420 <input type="checkbox"/> 7421 <input type="checkbox"/></td> <td></td> </tr> </table>	Analyses Requested		Preservation Codes						H	H							BTEX + MTBE 8260 <input checked="" type="checkbox"/> 8021 <input checked="" type="checkbox"/>	TPH 8015 MOD GRO	TPH 8015 MOD DRO	<input type="checkbox"/> Silica Gel Cleanup	8260 full scan	Oxygenates	Lead 7420 <input type="checkbox"/> 7421 <input type="checkbox"/>		Preservative Codes H = HCl T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ O = Other <input type="checkbox"/> J value reporting needed <input type="checkbox"/> Must meet lowest detection limits possible for 8260 compounds 8021 MTBE Confirmation <input type="checkbox"/> Confirm highest hit by 8260 <input type="checkbox"/> Confirm all hits by 8260 <input type="checkbox"/> Run ___ oxy s on highest hit <input type="checkbox"/> Run ___ oxy s on all hits
Analyses Requested		Preservation Codes																										
H	H																											
BTEX + MTBE 8260 <input checked="" type="checkbox"/> 8021 <input checked="" type="checkbox"/>	TPH 8015 MOD GRO	TPH 8015 MOD DRO	<input type="checkbox"/> Silica Gel Cleanup	8260 full scan	Oxygenates	Lead 7420 <input type="checkbox"/> 7421 <input type="checkbox"/>																						

Sample Identification	Date Collected	Time Collected	Grab	Composite	Soil	Water	Oil	Air	Total Number of Containers	BTEX + MTBE 8260	8021	TPH 8015 MOD GRO	TPH 8015 MOD DRO	Silica Gel Cleanup	8260 full scan	Oxygenates	Lead 7420	7421	Comments / Remarks	
QA	12-10-01	—				X			2	X	X									
mw-1	↓	1013	X			X			3	X	X									
mw-2	↓	1050	X			X			3	X	X									
mw-3	↓	1128	X			X			3	X	X									
mw-4	↓	1347	X			X			3	X	X									
mw-5	↓	1200	X			X			3	X	X									
mw-6	↓	1235	X			X			3	X	X									
mw-7	↓	1310	X			X			3	X	X									

Turnaround Time Requested (TAT) (please circle) STD. TAT 72 hour 48 hour 24 hour 4 day 5 day	Relinquished by: <u>Frank Bohner</u> Date: <u>12/14/01</u> Time: <u>14:25</u>	Received by: <u>Deanna Harding</u> Date: <u>12/12/01</u> Time: <u>12:52</u>
	Relinquished by: <u>Deanna Harding</u> Date: <u>12/12/01</u> Time: <u>14:00</u>	Received by: <u>Anches Limza</u> Date: <u>12-12-01</u> Time: <u>14:00</u>
Data Package Options (please circle if required) QC Summary Type I — Full Type VI (Raw Data) <input type="checkbox"/> Coelt Deliverable not needed WIP (RWQCB) Disk	Relinquished by: _____ Date: _____ Time: _____	Received by: _____ Date: _____ Time: _____
	Relinquished by Commercial Carrier: UPS FedEx Other: <u>Airborne</u>	Received by: <u>Deanna Harding</u> Date: <u>12/12/01</u> Time: <u>0920</u>



ANALYTICAL RESULTS

Prepared for:

Chevron Products Company
6001 Bollinger Canyon Road
Building L PO Box 6004
San Ramon CA 94583-0904
925-842-8582

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

RECEIVED

JAN 09 2002

GETTLER-RYAN INC.
GENERAL CONTRACTORS

SAMPLE GROUP

The sample group for this submittal is 790246. Samples arrived at the laboratory on Friday, December 14, 2001. The PO# for this group is 99011184 and the release number is BAUHS.

Client Description

<u>Client Description</u>	<u>NA</u>	<u>Water</u>
QA-T-011210		
MW-1-W-011210	Grab	Water
MW-2-W-011210	Grab	Water
MW-3-W-011210	Grab	Water
MW-4-W-011210	Grab	Water
MW-5-W-011210	Grab	Water
MW-6-W-011210	Grab	Water
MW-7-W-011210	Grab	Water

Lancaster Labs Number

3744531
3744532
3744533
3744534
3744535
3744536
3744537
3744538

METHODOLOGY

The specific methodologies used in obtaining the enclosed analytical results are indicated on the laboratory chronicles.

1 COPY TO

Delta C/O Gettler-Ryan

Attn: Deanna L. Harding



Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681



Lancaster Laboratories

Where quality is a science.

Questions? Contact your Client Services Representative
Teresa M. Lis at (717) 656-2300.

Respectfully Submitted,

Victoria M. Martell
Chemist



Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

CASE NARRATIVE

Prepared For:

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

Prepared By:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

SAMPLE GROUP

The sample group for this submittal is 790246. Samples arrived at the laboratory on Friday, December 14, 2001.

METHODOLOGY

The specific methodologies used in obtaining the enclosed analytical results are indicated on the laboratory chronicles.

COMMENTS

The MW-5 vials from Facility 91851 submitted for the BTEX/MTBE and TPH-GRO analysis did not have a pH < 2 at the time of the analysis. Due to the volatile nature of the analytes, it is not appropriate for the laboratory to adjust the pH at the time of sample receipt.



Lancaster Laboratories Sample No. **WW 3744531**

Collected: 12/10/2001 00:00

Account Number: 10905

Submitted: 12/14/2001 09:20
 Reported: 01/03/2002 at 20:35
 Discard: 02/03/2002
 QA-T-011210 NA Water

Chevron Products Company
 6001 Bollinger Canyon Road
 Building L PO Box 6004
 San Ramon CA 94583-0904

Facility# 91851 Job# 385145 GRD
 451 Hegenberger-Oakland T0600102238 QA

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01729	TPH-GRO - Waters					
01730	TPH-GRO - Waters	n.a.	N.D.	50.	ug/l	1
The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time.						
A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.						
08214	BTEX, MTBE (8021)					
00776	Benzene	71-43-2	N.D.	0.50	ug/l	1
00777	Toluene	108-88-3	N.D.	0.50	ug/l	1
00778	Ethylbenzene	100-41-4	N.D.	0.50	ug/l	1
00779	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	1
00780	Methyl tert-Butyl Ether	1634-04-4	N.D.	2.5	ug/l	1
A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.						

State of California Lab Certification No. 2116

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01729	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	12/16/2001 20:54	Patrick N. Evans	1
08214	BTEX, MTBE (8021)	SW-846 8021B	1	12/16/2001 20:54	Patrick N. Evans	1
01146	GC VOA Water Prep	SW-846 5030B	1	12/16/2001 20:54	Patrick N. Evans	n.a.

#=Laboratory Method Detection Limit exceeded target detection limit
 N.D.=Not detected or above the Reporting Limit



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 Lancaster, PA 17605-2425
 717-656-2300 Fax: 717-656-2681



Lancaster Laboratories Sample No. **WW 3744532**

Collected: 12/10/2001 10:13 by **FB**

Account Number: 10905

Submitted: 12/14/2001 09:20
 Reported: 01/03/2002 at 20:35
 Discard: 02/03/2002

Chevron Products Company
 6001 Bollinger Canyon Road
 Building L PO Box 6004
 San Ramon CA 94583-0904

MW-1-W-011210 Grab Water

Facility# 91851 Job# 385145 GRD
 451 Hegenberger-Oakland T0600102238 MW-1

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01729	TPH-GRO - Waters					
01730	TPH-GRO - Waters	n.a.	N.D.	50.	ug/l	1
	The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time.					
	A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.					
08214	BTEX, MTBE (8021)					
00776	Benzene	71-43-2	N.D.	0.50	ug/l	1
00777	Toluene	108-88-3	N.D.	0.50	ug/l	1
00778	Ethylbenzene	100-41-4	N.D.	0.50	ug/l	1
00779	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	1
00780	Methyl tert-Butyl Ether	1634-04-4	21.	2.5	ug/l	1
	A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.					

State of California Lab Certification No. 2116

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01729	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	12/17/2001 22:04	Patrick N. Evans	1
08214	BTEX, MTBE (8021)	SW-846 8021B	1	12/17/2001 22:04	Patrick N. Evans	1
01146	GC VOA Water Prep	SW-846 5030B	1	12/17/2001 22:04	Patrick N. Evans	n.a.

#=Laboratory Method Detection Limit exceeded target detection limit

N.D.=Not detected at or above the Reporting Limit



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Lancaster Laboratories Sample No. **WW 3744533**

Collected: 12/10/2001 10:50 by **FB** Account Number: 10905

Submitted: 12/14/2001 09:20
 Reported: 01/03/2002 at 20:35
 Discard: 02/03/2002
 MW-2-W-011210 Grab Water
 Chevron Products Company
 6001 Bollinger Canyon Road
 Building L PO Box 6004
 San Ramon CA 94583-0904

Facility# 91851 Job# 385145 GRD
 451 Hegenberger-Oakland T0600102238 MW-2

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01729	TPH-GRO - Waters					
01730	TPH-GRO - Waters	n.a.	N.D.	50.	ug/l	1
The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time.						
A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.						
08214	BTEX, MTBE (8021)					
00776	Benzene	71-43-2	N.D.	0.50	ug/l	1
00777	Toluene	108-88-3	N.D.	0.50	ug/l	1
00778	Ethylbenzene	100-41-4	N.D.	0.50	ug/l	1
00779	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	1
00780	Methyl tert-Butyl Ether	1634-04-4	22.	2.5	ug/l	1
A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.						

State of California Lab Certification No. 2116

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01729	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	12/17/2001 22:39	Patrick N. Evans	1
08214	BTEX, MTBE (8021)	SW-846 8021B	1	12/17/2001 22:39	Patrick N. Evans	1
01146	GC VOA Water Prep	SW-846 5030B	1	12/17/2001 22:39	Patrick N. Evans	n.a.

#=Laboratory Method Detection Limit exceeded target detection limit
 N.D.=Not detected at or above the Reporting Limit



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Lancaster Laboratories Sample No. **WW 3744534**

Collected: 12/10/2001 11:28 by FB

Account Number: 10905

Submitted: 12/14/2001 09:20
 Reported: 01/03/2002 at 20:35
 Discard: 02/03/2002

Chevron Products Company
 6001 Bollinger Canyon Road
 Building L PO Box 6004
 San Ramon CA 94583-0904

MW-3-W-011210 Grab Water

Facility# 91851 Job# 385145 GRD
 451 Hegenberger-Oakland T0600102238 MW-3

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01729	TPH-GRO - Waters					
01730	TPH-GRO - Waters	n.a.	130.	50.	ug/l	1
	The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time.					
	A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.					
08214	BTEX, MTBE (8021)					
00776	Benzene	71-43-2	N.D.	0.50	ug/l	1
00777	Toluene	108-88-3	N.D.	0.50	ug/l	1
00778	Ethylbenzene	100-41-4	N.D.	0.50	ug/l	1
00779	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	1
00780	Methyl tert-Butyl Ether	1634-04-4	1,000.	2.5	ug/l	5
	A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.					

State of California Lab Certification No. 2116

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01729	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	12/17/2001 14:25	Patrick N. Evans	1
08214	BTEX, MTBE (8021)	SW-846 8021B	1	12/17/2001 10:55	Patrick N. Evans	5
08214	BTEX, MTBE (8021)	SW-846 8021B	1	12/17/2001 14:25	Patrick N. Evans	1
01146	GC VOA Water Prep	SW-846 5030B	1	12/17/2001 10:55	Patrick N. Evans	n.a.

#=Laboratory Method Detection Limit exceeded target detection limit

N.D.=Not detected at or above the Reporting Limit



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Lancaster Laboratories Sample No. **WW 3744535**

Collected: 12/10/2001 13:47 by **FB**

Account Number: 10905

Submitted: 12/14/2001 09:20
 Reported: 01/03/2002 at 20:35
 Discard: 02/03/2002

Chevron Products Company
 6001 Bollinger Canyon Road
 Building L PO Box 6004
 San Ramon CA 94583-0904

MW-4-W-011210 Grab Water

Facility# 91851 Job# 385145 GRD
 451 Hegenberger-Oakland T0600102238 MW-4

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01729	TPH-GRO - Waters					
01730	TPH-GRO - Waters	n.a.	700.	50.	ug/l	1
The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time. A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.						
08214	BTEX, MTBE (8021)					
00776	Benzene	71-43-2	N.D.	0.50	ug/l	1
00777	Toluene	108-88-3	N.D.	0.50	ug/l	1
00778	Ethylbenzene	100-41-4	N.D.	0.50	ug/l	1
00779	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	1
00780	Methyl tert-Butyl Ether	1634-04-4	3,400.	6.0	ug/l	20
A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.						

State of California Lab Certification No. 2116

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis			Dilution Factor
			Trial#	Date and Time	Analyst	
01729	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	12/17/2001 15:35	Patrick N. Evans	1
08214	BTEX, MTBE (8021)	SW-846 8021B	1	12/17/2001 11:30	Patrick N. Evans	20
08214	BTEX, MTBE (8021)	SW-846 8021B	1	12/17/2001 15:35	Patrick N. Evans	1
01146	GC VOA Water Prep	SW-846 5030B	1	12/17/2001 11:30	Patrick N. Evans	n.a.

#=Laboratory Method Detection Limit exceeded target detection limit
 N.D.=Not detected at or above the Reporting Limit



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Lancaster Laboratories Sample No. WW 3744536

Collected: 12/10/2001 12:00 by FB

Account Number: 10905

Submitted: 12/14/2001 09:20
Reported: 01/03/2002 at 20:35
Discard: 02/03/2002

Chevron Products Company
6001 Bollinger Canyon Road
Building L PO Box 6004
San Ramon CA 94583-0904

MW-5-W-011210 Grab Water

Facility# 91851 Job# 385145 GRD
451 Hegenberger-Oakland T0600102238 MW-5

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01729	TPH-GRO - Waters					
01730	TPH-GRO - Waters	n.a.	N.D.	50.	ug/l	1
The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time.						
The vial submitted for volatile analysis did not have a pH < 2 at the time of analysis. Due to the volatile nature of the analytes, it is not appropriate for the laboratory to adjust the pH at the time of sample receipt.						
A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.						
08214	BTEX, MTBE (8021)					
00776	Benzene	71-43-2	N.D.	0.50	ug/l	1
00777	Toluene	108-88-3	N.D.	0.50	ug/l	1
00778	Ethylbenzene	100-41-4	N.D.	0.50	ug/l	1
00779	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	1
00780	Methyl tert-Butyl Ether	1634-04-4	45.	2.5	ug/l	1
The vial submitted for volatile analysis did not have a pH < 2 at the time of analysis. Due to the volatile nature of the analytes, it is not appropriate for the laboratory to adjust the pH at the time of sample receipt.						
A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.						

State of California Lab Certification No. 2116

#=Laboratory Method Detection Limit exceeded target detection limit

N.D.=Not detected or above the Reporting Limit



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717-656-2300 Fax: 717-656-2681



Lancaster Laboratories Sample No. WW 3744536

Collected: 12/10/2001 12:00 by FB

Account Number: 10905

Submitted: 12/14/2001 09:20

Chevron Products Company

Reported: 01/03/2002 at 20:35

6001 Bollinger Canyon Road

Discard: 02/03/2002

Building L PO Box 6004

MW-5-W-011210

Grab

Water

San Ramon CA 94583-0904

Facility# 91851 Job# 385145

GRD

451 Hegenberger-Oakland T0600102238 MW-5

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
01729	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	12/17/2001 23:14	Patrick N. Evans	1
08214	BTEX, MTBE (8021)	SW-846 8021B	1	12/17/2001 23:14	Patrick N. Evans	1
01146	GC VOA Water Prep	SW-846 5030B	1	12/17/2001 23:14	Patrick N. Evans	n.a.

#=Laboratory Method Detection Limit exceeded target detection limit

N.D.=Not detected or above the Reporting Limit



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Lancaster Laboratories Sample No. **WW 3744537**

Collected: 12/10/2001 12:35 by **FB**

Account Number: 10905

Submitted: 12/14/2001 09:20
 Reported: 01/03/2002 at 20:35
 Discard: 02/03/2002
 MW-6-W-011210

Chevron Products Company
 6001 Bollinger Canyon Road
 Building L PO Box 6004
 San Ramon CA 94583-0904

Grab Water

Facility# 91851 Job# 385145 GRD
 451 Hegenberger-Oakland T0600102238 MW-6

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01729	TPH-GRO - Waters					
01730	TPH-GRO - Waters	n.a.	N.D.	50.	ug/l	1
The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time. A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.						
08214	BTEX, MTBE (8021)					
00776	Benzene	71-43-2	N.D.	0.50	ug/l	1
00777	Toluene	108-88-3	N.D.	0.50	ug/l	1
00778	Ethylbenzene	100-41-4	N.D.	0.50	ug/l	1
00779	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	1
00780	Methyl tert-Butyl Ether	1634-04-4	N.D.	2.5	ug/l	1
A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.						

State of California Lab Certification No. 2116

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01729	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	12/17/2001 23:49	Patrick N. Evans	1
08214	BTEX, MTBE (8021)	SW-846 8021B	1	12/17/2001 23:49	Patrick N. Evans	1
01146	GC VOA Water Prep	SW-846 5030B	1	12/17/2001 05:05	Patrick N. Evans	n.a.

#=Laboratory Method Detection Limit exceeded target detection limit
 N.D.=Not detected, also above the Reporting Limit



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 717-656-2300 Fax: 717-656-2681



Lancaster Laboratories Sample No. **WW 3744538**

Collected: 12/10/2001 13:10 by **FB** Account Number: 10905

Submitted: 12/14/2001 09:20
 Reported: 01/03/2002 at 20:35
 Discard: 02/03/2002
 MW-7-W-011210 Grab Water
 Chevron Products Company
 6001 Bollinger Canyon Road
 Building L PO Box 6004
 San Ramon CA 94583-0904

Facility# 91851 Job# 385145 GRD
 451 Hegenberger-Oakland T0600102238 MW-7

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01729	TPH-GRO - Waters					
01730	TPH-GRO - Waters	n.a.	110.	50.	ug/l	1
The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time.						
A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.						
08214	BTEX, MTBE (8021)					
00776	Benzene	71-43-2	N.D.	0.50	ug/l	1
00777	Toluene	108-88-3	N.D.	0.50	ug/l	1
00778	Ethylbenzene	100-41-4	N.D.	0.50	ug/l	1
00779	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	1
00780	Methyl tert-Butyl Ether	1634-04-4	390.	2.5	ug/l	1
A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.						

State of California Lab Certification No. 2116

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01729	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	12/17/2001 15:00	Patrick N. Evans	1
08214	BTEX, MTBE (8021)	SW-846 8021B	1	12/17/2001 15:00	Patrick N. Evans	1
01146	GC VOA Water Prep	SW-846 5030B	1	12/17/2001 15:00	Patrick N. Evans	n.a.

#=Laboratory Method Detection Limit exceeded target detection limit
 N.D.=Not detected above the Reporting Limit



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Lancaster Laboratories

Where quality is a science

Quality Control Summary

Client Name: Chevron Products Company
 Reported: 01/03/02 at 08:35 PM

Group Number: 790246

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 01350A56	Sample number(s): 3744531-3744538							
Benzene	N.D.	0.5	ug/l	110	111	80-118	0	30
Toluene	N.D.	0.5	ug/l	108	108	82-119	0	30
Ethylbenzene	N.D.	0.5	ug/l	108	107	81-119	0	30
Total Xylenes	N.D.	1.5	ug/l	109	109	82-120	0	30
Methyl tert-Butyl Ether	N.D.	2.5	ug/l	109	110	79-127	1	30
TPH-GRO - Waters	N.D.	50.	ug/l	98	99	76-119	1	20

Sample Matrix Quality Control

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	MAX	BKG Conc	DUP Conc	RPD	Dup RPD Max
Batch number: 01350A56	Sample number(s): 3744531-3744538								
Benzene	113		66-140						
Toluene	108		72-138						
Ethylbenzene	110		71-138						
Total Xylenes	110		69-140						
Methyl tert-Butyl Ether	105		60-145						
TPH-GRO - Waters	108		74-132						

Surrogate Quality Control

Analysis Name: TPH-GRO - Waters
 Batch number: 01350A56

	Trifluorotoluene-F	Trifluorotoluene-P
3744531	93	99
3744532	95	99
3744533	94	98
3744534	94	98
3744535	96	101
3744536	87	97
3744537	89	98
3744538	94	99
Blank	91	99
LCS	110	99
LCSD	110	99
MS	110	99
<hr/>		
Limits:	65-137	72-134

- *- Outside of specification
- (1) The result for one or both determinations was less than five times the LOQ.
 - (2) The background result was more than four times the spike added.



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