

20464-

Environmental Management  
Company  
6001 Bollinger Canyon Rd, L4050  
P.O. Box 6012  
San Ramon, CA 94583-2324  
Tel 925-842-1589  
Fax 925-842-8370

Karen Streich  
Project Manager

July 27, 2004

**ChevronTexaco**

Alameda County Health Care Services  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502-6577

Alameda County  
JUL 29 2004  
Environmental Health

Re: Chevron Service Station # 9-1851

Address: 451 Hegenberger Road, Oakland, California


I have reviewed the attached routine groundwater monitoring report dated July 6, 2004.

I agree with the conclusions and recommendations presented in the referenced report. The information in this report is accurate to the best of my knowledge and all local Agency/Regional Board guidelines have been followed. This report was prepared by Gettler-Ryan, Inc., upon whose assistance and advice I have relied.

This letter is submitted pursuant to the requirements of California Water Code Section 13267(b)(1) and the regulating implementation entitled Appendix A pertaining thereto.

I declare under penalty of perjury that the foregoing is true and correct.

Sincerely,



Karen Streich  
Project Manager

Enclosure: Report



# GETTLER-RYAN INC.

## TRANSMITTAL

July 6, 2004  
G-R #385145

TO: Ms. Kristene Tidwell  
Cambria Environmental Technology, Inc.  
5900 Hollis Street, Suite A  
Emeryville, CA 94608

CC: Ms. Karen Streich  
ChevronTexaco Company  
P.O. Box 6012, Room K2256  
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	July 1, 2004	Groundwater Monitoring and Sampling Report Second Quarter - Event of June 2, 2004

### 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 **July 26, 2004**, 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. Ben Shimek, (Owner), 31 Industrial Way, Greenbrae, CA 94904

Enclosures

trans/9-1851-ks



# GETTLER - RYAN INC.

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July 1, 2004  
G-R Job #385145

Ms. Karen Streich  
ChevronTexaco Company  
P.O. Box 6012, Room K2256  
San Ramon, CA 94583

**RE: Second Quarter Event of June 2, 2004**  
Groundwater Monitoring & Sampling Report  
Chevron Service Station #9-1851  
451 Hegenberger Road  
Oakland, California

Dear Ms. Streich:

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.

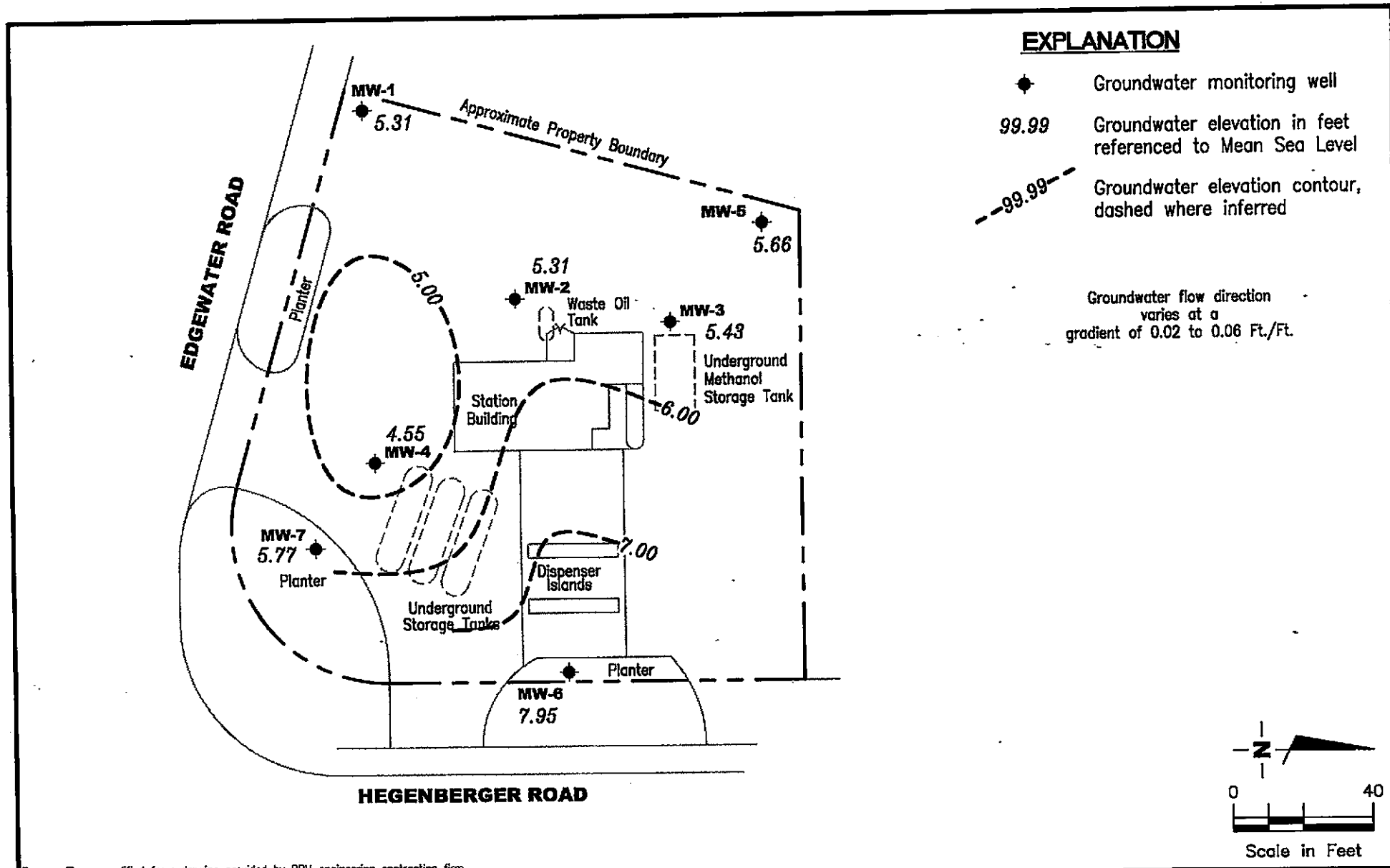
Sincerely,

Deanna L. Harding  
Project Coordinator

Hagop Kevork  
P.E. No. C55734



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  
 June 2, 2004

REVISED DATE

FILE NAME: P:\Enviro\Chevron\9-1851\004-9-1851.DWG | Layout Tab: Pot2

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

WELL ID/ DATE	TOC <sup>+</sup> (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	9.5
03/29/96	2.61	-0.72	3.33	--	<50	<0.5	<0.5	<0.5	<0.5	46
06/26/96	2.61	-1.23	3.84	--	<50	<0.5	<0.5	<0.5	<0.5	940
09/25/96	2.61	-1.41	4.02	--	<250	<2.5	<2.5	<2.5	<2.5	260
12/17/96	2.61	-0.96	3.57	--	<50	0.9	<0.5	<0.5	<0.5	76
03/20/97	2.61	-1.54	4.15	--	<50	<2.0	<2.0	<2.0	<2.0	64
06/20/97	2.61	-1.72	4.33	--	<50	<0.5	<0.5	<0.5	<0.5	110
09/09/97	2.61	-1.74	4.35	--	<50	<0.5	<0.5	<0.5	<0.5	27
12/12/97	2.61	-0.39	3.00	--	<50	<0.5	<0.5	<0.5	<0.5	14
02/19/98	2.61	0.78	1.83	--	<50	<0.5	<0.5	<0.5	<0.5	3,400
06/23/98	2.61	-0.73	3.34	--	210	<0.5	<0.5	<0.5	<0.5	16,000
08/31/98	2.61	-0.88	3.49	--	1,400	630	<5.0	<5.0	<5.0	1,090
12/29/98	2.61	-1.22	3.83	--	<500	<5.0	<5.0	<5.0	<5.0	33.9
03/11/99	2.61	-0.43	3.04	--	<50	<0.5	<0.5	<0.5	<0.5	1,160
06/24/99	2.61	-0.77	3.38	--	<500	65.7	<5.0	<0.5	<0.5	1,130
09/29/99	2.61	-1.01	3.62	--	81.7	<0.5	<0.5	<0.5	<0.5	233
12/08/99	2.61	-1.46	4.07	--	<50	<0.5	<0.5	<0.5	<0.5	37.9
03/01/00	2.61	0.66	1.95	--	100	<0.5	<0.5	<0.5	<0.5	88/91 <sup>2</sup>
06/19/00	2.61	-0.80	3.41	--	<50	3.8	<0.50	<0.50	<0.50	460/530 <sup>2</sup>
09/30/00	2.61	-1.23	3.84	--	<130	<1.3	<1.3	<1.3	<1.3	--
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 <sup>11</sup>	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
03/04/02	8.61	5.48	3.13	--	<50	<0.50	<0.50	<0.50	<1.5	47
06/03/02	8.61	2.90	5.71	--	<50	<0.50	<0.50	<0.50	<1.5	31
09/14/02	8.61	4.86	3.75	--	<50	<0.50	<0.50	<0.50	<1.5	140
12/13/02	8.61	5.32	3.29	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
03/14/03	8.61	5.54	3.07	--	<50	<0.50	<0.50	<0.50	<1.5	35
06/09/03 <sup>13</sup>	8.61	5.09	3.52	--	<50	<0.5	<0.5	<0.5	<0.5	69
09/03/03 <sup>13</sup>	8.61	4.49	4.12	--	<50	<0.5	<0.5	<0.5	<0.5	1

**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)
<b>MW-1 (cont)</b>										
12/01/03 <sup>13</sup>	8.61	5.34	3.27	--	<50	<0.5	<0.5	<0.5	<0.5	100
03/01/04 <sup>13</sup>	8.61	6.55	2.06	--	<50	<0.5	<0.5	<0.5	<0.5	26
06/02/04 <sup>13</sup>	8.61	5.31	3.30	--	<50	<0.5	<0.5	<0.5	<0.5	93
<b>MW-2</b>										
10/17/95 <sup>3</sup>	3.51	-1.82	5.33	1,600 <sup>4</sup>	170	3.5	<0.5	1.0	6.1	--
03/29/96	3.51	-0.44	3.95	3,000 <sup>4</sup>	89	4.7	<0.5	0.64	0.74	21
06/26/96	3.51	-1.09	4.60	2,000 <sup>4</sup>	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 <sup>4</sup>	110	<0.5	<0.5	0.75	2.1	27
03/20/97	3.51	-1.32	4.83	3,400 <sup>4</sup>	140	8.2	<2.0	<2.0	<2.0	58
06/20/97	3.51	-1.53	5.04	1,600 <sup>4</sup>	62	7.7	<0.5	<0.5	<0.5	38
09/09/97	3.51	-1.47	4.98	82 <sup>4</sup>	190	9.4	<0.5	<0.5	0.86	48
12/12/97	3.51	-0.40	3.91	8,500 <sup>4</sup>	180	1.8	<0.5	<0.5	3.2	34
02/19/98	3.51	0.55	2.96	3,800 <sup>4</sup>	<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 <sup>1</sup>	1.5	<0.50	<0.50	<0.50	90/59 <sup>2</sup>
09/30/00	3.51	-1.15	4.66	--	<50	<0.50	0.82	<0.50	1.1	48/50 <sup>2</sup>
10/05/00 <sup>8,9</sup>	3.51	-1.20	4.71	4,000 <sup>7</sup>	--	--	--	--	--	--
12/08/00	9.52	4.55	4.97	--	<50.0	<0.500	<0.500	<0.500	<0.500	61.8
03/03/01 <sup>11</sup>	9.52	6.25	3.27	--	310 <sup>12</sup>	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
03/04/02	9.52	5.58	3.94	--	<50	<0.50	<0.50	<0.50	<1.5	61

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

WELL ID/ DATE	TOC <sup>2</sup> (ft.)	GWE (msl)	DTW (ft.)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
<b>MW-2 (cont)</b>										
06/03/02	9.52	5.44	4.08	--	<50	<0.50	<0.50	<0.50	<1.5	71
09/14/02	9.52	4.87	4.65	--	<50	<0.50	<0.50	<0.50	<1.5	77
12/13/02	9.52	5.21	4.31	--	53	<0.50	<0.50	<0.50	<1.5	44
03/14/03	9.52	5.61	3.91	--	<50	<0.50	<0.50	<0.50	<1.5	55
06/09/03 <sup>13</sup>	9.52	5.19	4.33	--	<50	<0.5	<0.5	<0.5	<0.5	67
09/03/03 <sup>13</sup>	9.52	4.59	4.93	--	<50	<0.5	<0.5	<0.5	<0.5	0.9
12/01/03 <sup>13</sup>	9.52	5.37	4.15	--	<50	<0.5	<0.5	<0.5	<0.5	72
03/01/04 <sup>13</sup>	9.52	6.40	3.12	--	<50	<0.5	<0.5	<0.5	<0.5	130
06/02/04 <sup>13</sup>	9.52	5.31	4.21	--	<50	<0.5	<0.5	<0.5	<0.5	46
<b>MW-3</b>										
10/17/95 <sup>5</sup>	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 <sup>4</sup>	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 <sup>2</sup>
09/30/00	3.08	-0.92	4.00	--	<250	<2.5	<2.5	<2.5	<2.5	730/2,100 <sup>2</sup>
10/05/00	3.08	-0.94	4.02	--	--	--	--	--	--	--

**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)
<b>MW-3 (cont)</b>										
12/08/00	9.08	5.38	3.70	--	<50.0	<0.500	<0.500	<0.500	<0.500	1,620
03/03/01 <sup>11</sup>	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
03/04/02	9.08	6.24	2.84	--	120	<0.50	<0.50	<0.50	<1.5	720
06/03/02	9.08	5.80	3.28	--	130	<0.50	<0.50	<0.50	<1.5	710
09/14/02	9.08	4.93	4.15	--	590	<20	<1.0	<1.0	<3.0	2,600
12/13/02	9.08	5.23	3.85	--	430	<0.50	<0.50	<0.50	<1.5	2,000
03/14/03	9.08	6.09	2.99	--	310	<0.50	<0.50	<0.50	<1.5	1,600
06/09/03 <sup>13</sup>	9.08	5.74	3.34	--	330	<0.5	<0.5	<0.5	<0.5	1,800
09/03/03 <sup>13</sup>	9.08	5.11	3.97	--	720	<3	<3	<3	<3	4,100
12/01/03 <sup>13</sup>	9.08	5.32	3.76	--	520	<1	<1	<1	<1	2,400
03/01/04 <sup>13</sup>	9.08	6.97	2.11	--	140	<0.5	<0.5	<0.5	<0.5	850
06/02/04 <sup>13</sup>	9.08	5.43	3.65	--	220	<0.5	<0.5	<0.5	<0.5	1,500
<b>MW-4</b>										
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 <sup>4</sup>	<2.0	<2.0	<2.0	<2.0	10,000/8,600 <sup>6</sup>
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 <sup>4</sup>	<0.5	<0.5	<0.5	<0.5	6,600
12/12/97	3.48	-1.55	5.03	--	430 <sup>4</sup>	120	<2.5	<2.5	<2.5	7,800
02/19/98	3.48	0.13	3.35	--	510 <sup>4</sup>	130	<0.5	<0.5	<0.5	6,600
06/23/98	3.48	-1.50	4.98	--	550 <sup>4</sup>	<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



**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)
<b>MW-4 (cont)</b>										
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 <sup>2</sup>
09/30/00	3.48	-0.29	3.77	--	740 <sup>1</sup>	<2.5	<2.5	<2.5	<2.5	6,000/7,800 <sup>2</sup>
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 <sup>11</sup>	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
03/04/02	9.48	5.81	3.67	--	660	<0.50	<0.50	<0.50	<1.5	2,900
06/03/02	9.48	4.24	5.24	--	610	<0.50	<0.50	<0.50	<1.5	3,000
09/14/02	9.48	4.26	5.22	--	490	<10	<1.0	<1.0	<3.0	2,400
12/13/02	9.48	4.81	4.67	--	440	<0.50	<0.50	<0.50	<1.5	2,200
03/14/03	9.48	4.84	4.64	--	490	<0.50	<0.50	<0.50	<1.5	2,600
06/09/03 <sup>13</sup>	9.48	4.45	5.03	--	340	<0.5	<0.5	<0.5	<0.5	1,700
09/03/03 <sup>13</sup>	9.48	3.83	5.65	--	320	<1	<1	<1	<1	1,600
12/01/03 <sup>13</sup>	9.48	4.51	4.97	--	350	<1	<1	<1	<1	1,700
03/01/04 <sup>13</sup>	9.48	4.80	4.68	--	240	<0.5	<0.5	<0.5	<0.5	1,200
06/02/04 <sup>13</sup>	9.48	4.55	4.93	--	240	<0.5	<0.5	<0.5	<0.5	1,600
<b>MW-5</b>										
10/23/00 <sup>10</sup>	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 <sup>11</sup>	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
03/04/02	8.77	6.25	2.52	--	<50	<0.50	<0.50	<0.50	<1.5	29
06/03/02	8.77	5.57	3.20	--	<50	<0.50	<0.50	<0.50	<1.5	40
09/14/02	8.77	4.92	3.85	--	<50	<0.50	<0.50	<0.50	<1.5	92

**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)
<b>MW-5 (cont)</b>										
12/13/02	8.77	5.32	3.45	--	<50	<0.50	<0.50	<0.50	<1.5	32
03/14/03	8.77	5.82	2.95	--	<50	<0.50	<0.50	<0.50	<1.5	71
06/09/03 <sup>13</sup>	8.77	5.58	3.19	--	<50	<0.5	<0.5	<0.5	<0.5	79
09/03/03 <sup>13</sup>	8.77	4.98	3.79	--	<50	<0.5	<0.5	<0.5	<0.5	2
12/01/03 <sup>13</sup>	8.77	5.43	3.34	--	<50	<0.5	<0.5	<0.5	<0.5	52
03/01/04 <sup>13</sup>	8.77	6.29	2.48	--	<50	<0.5	<0.5	<0.5	<0.5	120
06/02/04 <sup>13</sup>	8.77	5.66	3.11	--	<50	<0.5	<0.5	<0.5	<0.5	110
<b>MW-6</b>										
10/23/00 <sup>10</sup>	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 <sup>11</sup>	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
03/04/02	11.45	7.29	4.16	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
06/03/02	11.45	5.74	5.71	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
09/14/02	11.45	4.80	6.65	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
12/13/02	11.45	5.06	6.39	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
03/14/03	11.45	4.98	6.47	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
06/09/03 <sup>13</sup>	11.45	4.67	6.78	--	<50	<0.5	0.7	<0.5	<0.5	1
09/03/03 <sup>13</sup>	11.45	4.37	7.08	--	<50	<0.5	<0.5	<0.5	<0.5	0.8
12/01/03 <sup>13</sup>	11.45	7.88	3.57	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
03/01/04 <sup>13</sup>	11.45	8.27	3.18	--	<50	<0.5	<0.5	<0.5	<0.5	25
06/02/04 <sup>13</sup>	11.45	7.95	3.50	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
<b>MW-7</b>										
10/23/00 <sup>10</sup>	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 <sup>11</sup>	10.58	4.31	6.27	--	72 <sup>12</sup>	<0.50	<0.50	<0.50	<0.50	460
06/19/01	10.58	4.76	5.82	--	110 <sup>1</sup>	18	<0.50	<0.50	<0.50	440

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

WELL ID/ DATE	TOC* (ft.)	GWE (mst)	DTW (ft.)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
<b>MW-7 (cont)</b>										
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
03/04/02	10.58	3.68	6.90	--	220	1.1	<0.50	3.0	<1.5	460
06/03/02	10.58	4.94	5.64	--	130	<0.50	<0.50	<0.50	<1.5	350
09/14/02	10.58	3.55	7.03	--	120	<2.0	<0.50	<0.50	<1.5	340
12/13/02	10.58	4.99	5.59	--	57	<0.50	<0.50	<0.50	<1.5	150
03/14/03	10.58	4.60	5.98	--	77	<0.50	<0.50	<0.50	<1.5	240
06/09/03 <sup>13</sup>	10.58	4.32	6.26	--	79	<0.5	<0.5	<0.5	<0.5	210
09/03/03 <sup>13</sup>	10.58	3.72	6.86	--	<50	<0.5	<0.5	<0.5	<0.5	0.8
12/01/03 <sup>13</sup>	10.58	5.11	5.47	--	58	<0.5	<0.5	<0.5	<0.5	130
03/01/04 <sup>13</sup>	10.58	4.60	5.98	--	71	<0.5	<0.5	<0.5	<0.5	180
06/02/04 <sup>13</sup>	10.58	5.77	4.81	--	<50	<0.5	<0.5	<0.5	<0.5	87
<b>TRIP BLANK</b>										
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
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	<2.0
12/29/98	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0
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	<2.5
09/29/99	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0
12/08/99	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
03/01/00	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5

**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)
<b>TRIP BLANK (cont)</b>										
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 <sup>11</sup>	--	--	--	--	<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
<b>QA</b>										
12/10/01	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
03/04/02	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
06/03/02	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
09/14/02	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
12/13/02	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
03/14/03	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
06/09/03 <sup>13</sup>	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
09/03/03 <sup>13</sup>	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
12/01/03 <sup>13</sup>	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
03/01/04 <sup>13</sup>	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
06/02/04 <sup>13</sup>	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5

**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  
GWE = Groundwater Elevation  
(msl) = Mean sea level  
DTW = Depth to Water

TPH-D = Total Petroleum Hydrocarbons as Diesel  
TPH-G = Total Petroleum Hydrocarbons as Gasoline  
B = Benzene  
T = Toluene  
E = Ethylbenzene

X = Xylenes  
MTBE = Methyl tertiary butyl ether  
(ppb) = Parts per billion  
-- = Not Measured/Not Analyzed  
QA = Quality Assurance/Trip Blank

- \* 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).
- <sup>1</sup> Laboratory report indicates gasoline C6-C12.
- <sup>2</sup> MTBE by EPA Method 8260.
- <sup>3</sup> Results of EPA 8010 test indicates that the detection of 1,1-Dichloroethane (1,1-DCA) was detected at 1.7 ppb.
- <sup>4</sup> Chromatogram pattern indicates an unidentified hydrocarbon.
- <sup>5</sup> Results of EPA 8015 test indicates that levels of Methanol and Methyl ethyl ketone are respectively <1000 and <200 ppb.
- <sup>6</sup> Confirmation run.
- <sup>7</sup> Laboratory report indicates unidentified hydrocarbons >C16.
- <sup>8</sup> 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.
- <sup>9</sup> 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.
- <sup>10</sup> Data was provided by Delta Environmental Consultants, Inc.
- <sup>11</sup> Laboratory report indicates sample was analyzed outside the EPA recommended holding time.
- <sup>12</sup> Laboratory report indicates unidentified hydrocarbons C6-C12.
- <sup>13</sup> BTEX and MTBE by EPA Method 8260.

**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)
<b>MW-1</b>						
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	--	--	--
06/09/03	--	--	69	--	--	--
09/03/03	<50	--	1	--	--	--
12/01/03	<50	--	100	--	--	--
03/01/04	<50	--	26	--	--	--
06/02/04	<50	--	93	--	--	--
<b>MW-2</b>						
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	--	--	--
06/09/03	--	--	67	--	--	--
09/03/03	<50	--	0.9	--	--	--
12/01/03	<50	--	72	--	--	--
03/01/04	<50	--	130	--	--	--
06/02/04	<50	--	46	--	--	--
<b>MW-3</b>						
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	--	--	--
06/09/03	--	--	1,800	--	--	--

**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)
<b>MW-3 (cont)</b>						
09/03/03	<250	--	4,100	--	--	--
12/01/03	<130	--	2,400	--	--	--
03/01/04	<50	--	850	--	--	--
06/02/04	<50	--	1,500	--	--	--
<b>MW-4</b>						
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	--	--	--
06/09/03	--	--	1,700	--	--	--
09/03/03	<130	--	1,600	--	--	--
12/01/03	<100	--	1,700	--	--	--
03/01/04	<50	--	1,200	--	--	--
06/02/04	<50	--	1,600	--	--	--
<b>MW-5</b>						
10/23/00	<1,000	<100	4.34	<2.00	<2.00	<2.00
06/09/03	--	--	79	--	--	--
09/03/03	<50	--	2	--	--	--
12/01/03	<50	--	52	--	--	--
03/01/04	<50	--	120	--	--	--
06/02/04	<50	--	110	--	--	--
<b>MW-6</b>						
10/23/00	<1,000	<100	5.96	<2.00	<2.00	<2.00
06/09/03	--	--	1	--	--	--
09/03/03	<50	--	0.8	--	--	--

**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)
<b>MW-6 (cont)</b>						
12/01/03	<50	--	<0.5	--	--	--
03/01/04	<50	--	25	--	--	--
06/02/04	<50	--	<0.5	--	--	--
<b>MW-7</b>						
10/23/00	<6,670	<667	1,210	13.3	13.3	199
06/09/03	--	--	210	--	--	--
09/03/03	<50	--	0.8	--	--	--
12/01/03	<50	--	130	--	--	--
03/01/04	<50	--	180	--	--	--
06/02/04	<50	--	87	--	--	--



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

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**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, all depth to water level measurements are collected with a static water level indicator and are also recorded in the field notes, prior to purging and sampling any wells.

After water levels are collected and prior to sampling, if purging is to occur, each well is purged a minimum of three well casing volumes of water using pre-cleaned pumps (stack, suction, Grundfos), or disposable 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 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 ChevronTexaco Company, the purge water and decontamination water generated during sampling activities is transported by IWM to McKittrick Waste Management located in McKittrick, California.



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ChevronTexaco #9-1851 Job Number: 385145  
 Site Address: 451 Hegenberger Road Event Date: 6-2-04 (inclusive)  
 City: Oakland, CA Sampler: Joe

Well ID: MW-1 Date Monitored: 6-2-04 Well Condition: o.i.c.  
 Well Diameter: 2 in.  
 Total Depth: 14.65 ft.  
 Depth to Water: 3.30 ft.  
11.35 xVF 0.17 = 1.14 x3 case volume = Estimated Purge Volume: 3.5 gal.

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Purge Equipment:  
 Disposable Bailer   
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Suction Pump \_\_\_\_\_  
 Grundfos \_\_\_\_\_  
 Other: \_\_\_\_\_

Sampling Equipment:  
 Disposable Bailer   
 Pressure Bailer \_\_\_\_\_  
 Discrete Bailer \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Bailed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: \_\_\_\_\_ ft  
 Depth to Water: \_\_\_\_\_ ft  
 Hydrocarbon Thickness: 0 ft  
 Visual Confirmation/Description: \_\_\_\_\_  
 Skimmer / Absorbant Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ gal  
 Amt Removed from Well: \_\_\_\_\_ gal  
 Water Removed: \_\_\_\_\_  
 Product Transferred to: \_\_\_\_\_

Start Time (purge): 0830 Weather Conditions: clear  
 Sample Time/Date: 0855 6-2-04 Water Color: clear Odor: none  
 Purging Flow Rate: 0.5 gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (u mhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
<u>0838</u>	<u>1</u>	<u>6.75</u>	<u>0.25</u>	<u>65.2</u>		
<u>0842</u>	<u>2</u>	<u>6.86</u>	<u>0.31</u>	<u>64.8</u>		
<u>0846</u>	<u>3.5</u>	<u>6.89</u>	<u>0.32</u>	<u>65.0</u>		

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-1</u>	<u>6</u> x vva vial	<u>YES</u>	<u>HCL</u>	<u>LANCASTER</u>	<u>TPH-G(8015)/BTEX+MTBE(8260)/ ETHANOL(8260)</u>

COMMENTS: \_\_\_\_\_

Add/Replaced Lock: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Size: \_\_\_\_\_



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ChevronTexaco #9-1851 Job Number: 385145  
 Site Address: 451 Hegenberger Road Event Date: 6-2-04 (inclusive)  
 City: Oakland, CA Sampler: Joc

Well ID: MW-2 Date Monitored: 6-2-04 Well Condition: O.K.

Well Diameter: 2 in.  
 Total Depth: 14.92 ft.  
 Depth to Water: 4.21 ft.  
10.71

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

xVF 0.17 = 1.82 x3 case volume= Estimated Purge Volume: 5.5 gal.

Purge Equipment:  
 Disposable Bailer   
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Suction Pump \_\_\_\_\_  
 Grundfos \_\_\_\_\_  
 Other: \_\_\_\_\_

Sampling Equipment:  
 Disposable Bailer   
 Pressure Bailer \_\_\_\_\_  
 Discrete Bailer \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Bailed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: \_\_\_\_\_ ft  
 Depth to Water: \_\_\_\_\_ ft  
 Hydrocarbon Thickness: 0 ft  
 Visual Confirmation/Description:  
 Skimmer / Absorbant Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ gal  
 Amt Removed from Well: \_\_\_\_\_ gal  
 Water Removed: \_\_\_\_\_  
 Product Transferred to: \_\_\_\_\_

Start Time (purge): 0906 Weather Conditions: Clear  
 Sample Time/Date: 0930 6-2-04 Water Color: clear Odor: none  
 Purging Flow Rate: 0.5 gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (u mhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
<u>0912</u>	<u>1.5</u>	<u>6.69</u>	<u>0.52</u>	<u>64.2</u>		
<u>0915</u>	<u>3</u>	<u>6.62</u>	<u>0.57</u>	<u>64.3</u>		
<u>0919</u>	<u>5.5</u>	<u>6.68</u>	<u>0.54</u>	<u>64.5</u>		

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-2</u>	<u>6 x voa vial</u>	<u>YES</u>	<u>HCL</u>	<u>LANCASTER</u>	<u>TPH-G(8015)/BTEX+MTBE(8260)/ETHANOL(8260)</u>

COMMENTS: Waste-oil like trace observed from well. May need absorbent sock, future sampling events.

Add/Replaced Lock: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Size: \_\_\_\_\_



# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ChevronTexaco #9-1851 Job Number: 385145  
 Site Address: 451 Hegenberger Road Event Date: 6-2-04 (inclusive)  
 City: Oakland, CA Sampler: Joc

Well ID: MW-3 Date Monitored: 6-2-04 Well Condition: O.K.  
 Well Diameter: 2 in.  
 Total Depth: 14.75 ft.  
 Depth to Water: 3.65 ft.  
11.10 xVP 0.17 = 1.89 x3 case volume = Estimated Purge Volume: 6 gal.

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

**Purge Equipment:**  
 Disposable Bailer   
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Suction Pump \_\_\_\_\_  
 Grundfos \_\_\_\_\_  
 Other: \_\_\_\_\_

**Sampling Equipment:**  
 Disposable Bailer   
 Pressure Bailer \_\_\_\_\_  
 Discrete Bailer \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Bailed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: \_\_\_\_\_ ft  
 Depth to Water: \_\_\_\_\_ ft  
 Hydrocarbon Thickness: 0 ft  
 Visual Confirmation/Description: \_\_\_\_\_  
 Skimmer / Absorbant Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ gal  
 Amt Removed from Well: \_\_\_\_\_ gal  
 Water Removed: \_\_\_\_\_  
 Product Transferred to: \_\_\_\_\_

Start Time (purge): 0942 Weather Conditions: clear  
 Sample Time/Date: 1006 6-2-04 Water Color: clear Odor: yes  
 Purging Flow Rate: 0.5 gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm) <sup>x1000</sup>	Temperature (C/E)	D.O. (mg/L)	ORP (mV)
<u>0950</u>	<u>2</u>	<u>6.56</u>	<u>0.30</u>	<u>63.9</u>	_____	_____
<u>0955</u>	<u>4</u>	<u>6.68</u>	<u>0.31</u>	<u>64.4</u>	_____	_____
<u>0958</u>	<u>6</u>	<u>6.64</u>	<u>0.36</u>	<u>64.7</u>	_____	_____
_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-3</u>	<u>6</u> x voa vial	<u>YES</u>	<u>HCL</u>	<u>LANCASTER</u>	<u>TPH-G(8015)/BTEX+MTBE(8260)/ ETHANOL(8260)</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

COMMENTS: \_\_\_\_\_

Add/Replaced Lock:  Add/Replaced Plug:  Size: 2"



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ChevronTexaco #9-1851 Job Number: 385145  
 Site Address: 451 Hegenberger Road Event Date: 6-2-04 (inclusive)  
 City: Oakland, CA Sampler: Joc

Well ID: MW-4 Date Monitored: 6-2-04 Well Condition: OK  
 Well Diameter: 2 in.  
 Total Depth: 14.88 ft.  
 Depth to Water: 4.93 ft.  
9.95 xVF 0.17 = 1.69 x3 case volume = Estimated Purge Volume: 5 gal.

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

**Purge Equipment:**  
 Disposable Bailer   
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Suction Pump \_\_\_\_\_  
 Grundfos \_\_\_\_\_  
 Other: \_\_\_\_\_

**Sampling Equipment:**  
 Disposable Bailer   
 Pressure Bailer \_\_\_\_\_  
 Discrete Bailer \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Bailed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: \_\_\_\_\_ ft  
 Depth to Water: \_\_\_\_\_ ft  
 Hydrocarbon Thickness: 0 ft  
 Visual Confirmation/Description: \_\_\_\_\_  
 Skimmer / Absorbant Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ gal  
 Amt Removed from Well: \_\_\_\_\_ gal  
 Water Removed: \_\_\_\_\_  
 Product Transferred to: \_\_\_\_\_

Start Time (purge): 1020 Weather Conditions: clear  
 Sample Time/Date: 1050 6-2-04 Water Color: clear Odor: no  
 Purging Flow Rate: 0.2 gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (u mhos/cm) <sup>x1000</sup>	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
<u>1032</u>	<u>1.5</u>	<u>7.16</u>	<u>0.97</u>	<u>64.9</u>		
<u>1035</u>	<u>3</u>	<u>6.85</u>	<u>0.53</u>	<u>65.4</u>		
<u>1038</u>	<u>5</u>	<u>6.84</u>	<u>0.55</u>	<u>65.3</u>		

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-4</u>	<u>6</u> x vva vial	<u>YES</u>	<u>HCL</u>	<u>LANCASTER</u>	<u>TPH-G(8015)/BTX+MTBE(8260)/ ETHANOL(8260)</u>

COMMENTS: \_\_\_\_\_

Add/Replaced Lock: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Size: \_\_\_\_\_



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ChevronTexaco #9-1851 Job Number: 385145  
 Site Address: 451 Hegenberger Road Event Date: 6-2-04 (inclusive)  
 City: Oakland, CA Sampler: Joe

Well ID: MW-5 Date Monitored: 6-2-04 Well Condition: o.k.  
 Well Diameter: 2 in.  
 Total Depth: 10.05 ft.  
 Depth to Water: 3.11 ft.  
6.94 xVF 0.17 = 1.18 x3 case volume = Estimated Purge Volume: 3.5 gal.

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

### Purge Equipment:

Disposable Bailer   
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Suction Pump \_\_\_\_\_  
 Grundfos \_\_\_\_\_  
 Other: \_\_\_\_\_

### Sampling Equipment:

Disposable Bailer   
 Pressure Bailer \_\_\_\_\_  
 Discrete Bailer \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Bailed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: \_\_\_\_\_ ft  
 Depth to Water: \_\_\_\_\_ ft  
 Hydrocarbon Thickness: 0 ft  
 Visual Confirmation/Description: \_\_\_\_\_  
 Skimmer / Absorbent Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ gal  
 Amt Removed from Well: \_\_\_\_\_ gal  
 Water Removed: \_\_\_\_\_  
 Product Transferred to: \_\_\_\_\_

Start Time (purge): 0744 Weather Conditions: clear  
 Sample Time/Date: 0815 6-2-04 Water Color: clear Odor: none  
 Purging Flow Rate: 0.5 gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
<u>0756</u>	<u>1</u>	<u>7.21</u>	<u>1.02</u>	<u>65.0</u>	_____	_____
<u>0759</u>	<u>2</u>	<u>7.20</u>	<u>0.90</u>	<u>65.1</u>	_____	_____
<u>0803</u>	<u>3.5</u>	<u>7.27</u>	<u>0.93</u>	<u>64.8</u>	_____	_____
_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-5</u>	<u>6</u> x voa vial	<u>YES</u>	<u>HCL</u>	<u>LANCASTER</u>	<u>TPH-G(8015)/BTEX+MTBE(8260)/ETHANOL(8260)</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

### COMMENTS:

Add/Replaced Lock: \_\_\_\_\_

Add/Replaced Plug: \_\_\_\_\_ Size: \_\_\_\_\_





# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ChevronTexaco #9-1851 Job Number: 385145  
 Site Address: 451 Hegenberger Road Event Date: 6-2-04 (inclusive)  
 City: Oakland, CA Sampler: Joc

Well ID: MW-6 Date Monitored: 6-2-04 Well Condition: o.k  
 Well Diameter: 2 in.  
 Total Depth: 10.06 ft.  
 Depth to Water: 3.50 ft.  
6.56 xVF 0.17 = 1.12 x3 case volume = Estimated Purge Volume: 3.5 gal.

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

**Purge Equipment:**  
 Disposable Bailer   
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Suction Pump \_\_\_\_\_  
 Grundfos \_\_\_\_\_  
 Other: \_\_\_\_\_

**Sampling Equipment:**  
 Disposable Bailer   
 Pressure Bailer \_\_\_\_\_  
 Discrete Bailer \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Bailed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: \_\_\_\_\_ ft  
 Depth to Water: \_\_\_\_\_ ft  
 Hydrocarbon Thickness: 0.7 ft  
 Visual Confirmation/Description: \_\_\_\_\_  
 Skimmer / Absorbant Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ gal  
 Amt Removed from Well: \_\_\_\_\_ gal  
 Water Removed: \_\_\_\_\_  
 Product Transferred to: \_\_\_\_\_

Start Time (purge): 0635 Weather Conditions: Clear  
 Sample Time/Date: 0705 / 6-2-04 Water Color: Clear Odor: none  
 Purging Flow Rate: 0.5 gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (C/E)	D.O. (mg/L)	ORP (mV)
<u>0647</u>	<u>1</u>	<u>7.15</u>	<u>1.25</u>	<u>64.8</u>		
<u>0650</u>	<u>2</u>	<u>7.29</u>	<u>1.30</u>	<u>64.7</u>		
<u>0653</u>	<u>3.5</u>	<u>7.25</u>	<u>1.26</u>	<u>64.8</u>		

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-6</u>	<u>6 x vov vial</u>	<u>YES</u>	<u>HCL</u>	<u>LANCASTER</u>	<u>TPH-G(8015)/BTEX+MTBE(8260) ETHANOL(8260)</u>

COMMENTS: \_\_\_\_\_

Add/Replaced Lock: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Size: \_\_\_\_\_



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ChevronTexaco #9-1851  
 Site Address: 451 Hegenberger Road  
 City: Oakland, CA

Job Number: 385145  
 Event Date: 6-2-04 (inclusive)  
 Sampler: Joc

Well ID: MW-7  
 Well Diameter: 2 in.  
 Total Depth: 13.34 ft.  
 Depth to Water: 4.81 ft.  
8.53

Date Monitored: 6-2-04 Well Condition: O.K.

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

xVF 0.17 = 1.45 x3 case volume= Estimated Purge Volume: 4.5 gal.

### Purge Equipment:

Disposable Bailer   
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Suction Pump \_\_\_\_\_  
 Grundfos \_\_\_\_\_  
 Other: \_\_\_\_\_

### Sampling Equipment:

Disposable Bailer   
 Pressure Bailer \_\_\_\_\_  
 Discrete Bailer \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Bailed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: \_\_\_\_\_ ft  
 Depth to Water: \_\_\_\_\_ ft  
 Hydrocarbon Thickness: 0 ft  
 Visual Confirmation/Description: \_\_\_\_\_  
 Skimmer / Absorbant Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ gal  
 Amt Removed from Well: \_\_\_\_\_ gal  
 Water Removed: \_\_\_\_\_  
 Product Transferred to: \_\_\_\_\_

Start Time (purge): 0717 Weather Conditions: clear  
 Sample Time/Date: 0738 16-2-04 Water Color: clear Odor: none  
 Purging Flow Rate: 0.5 gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm) <sup>x 10<sup>5</sup></sup>	Temperature (C/E)	D.O. (mg/L)	ORP (mV)
<u>0723</u>	<u>1</u>	<u>7.12</u>	<u>1.13</u>	<u>69.2</u>		
<u>0726</u>	<u>2.5</u>	<u>7.18</u>	<u>1.15</u>	<u>69.6</u>		
<u>0730</u>	<u>4.5</u>	<u>7.16</u>	<u>1.20</u>	<u>69.4</u>		

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-7</u>	<u>6 x voa vial</u>	<u>YES</u>	<u>HCL</u>	<u>LANCASTER</u>	<u>TPH-G(8015)/BTEX+MTBE(8260)/ETHANOL(8260)</u>

### COMMENTS:

Add/Replaced Lock:

Add/Replaced Plug:  Size: 2"

# Chevron California Region Analysis Request/Chain of Custody



For Lancaster Laboratories use only  
 Acct. #: 10904 Sample #: 4257170-77 SCR#: 898766

860404-02

Facility #: SS#9-1851 G-R#385145 GLOBAL ID# T0600102238  
 Site Address: 451 Hegenberger Road, Oakland, CA  
 Chevron PM: KS Lead Consultant: CAMBRIATS  
 Consultant/Office: G-R Inc, 6747 Sierra Ct, Dublin, CA 94568  
 Consultant Prj. Mgr.: Deanna L. Harding deanna@grinc.com  
 Consultant Phone #: 925-551-7555 Fax #: 925-551-7899  
 Sampler: JOE AJEMIAN  
 Service Order #: \_\_\_\_\_  Non SAR:

Matrix		Analyses Requested												
		Preservation Codes												
Soil	Water	Oil	Air	Total Number of Containers							Preservative Codes			
<input type="checkbox"/> Potable <input type="checkbox"/> NPDES	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	BTEX + MTBE 8260	TPH 8015 MGD	TPH 8015 MGD DRO	8260 full scan	Oxygenates	Lead 7420	7421	H		T	
				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		Ethanol (8260)			
				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>								
				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>								
				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>								
				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>								
				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>								
				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>								

**Preservative Codes**  
 H = HCl      T = Thiosulfate  
 N = HNO<sub>3</sub>      B = NaOH  
 S = H<sub>2</sub>SO<sub>4</sub>      O = Other

J value reporting needed  
 Must meet lowest detection limits possible for 8260 compounds

8021 MTBE Confirmation  
 Confirm highest hit by 8260  
 Confirm all hits by 8260  
 Run \_\_\_ oxy s on highest hit  
 Run \_\_\_ oxy s on all hits

Sample Identification	Date Collected	Time Collected	Grab	Composite	Soil	Water	Oil	Air	Total Number of Containers	BTEX + MTBE 8260	TPH 8015 MGD	TPH 8015 MGD DRO	8260 full scan	Oxygenates	Lead 7420	7421	Preservative Codes	
QA			<input checked="" type="checkbox"/>							<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		Ethanol (8260)	
MW-1	6-2-04	0855							4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						
MW-2		0930							4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						
MW-3		1006							4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						
MW-4		1050							4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						
MW-5		0815							4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						
MW-6		0705							4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						
MW-7		0738							4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						

**Comments / Remarks**

**Turnaround Time Requested (TAT) (please circle)**

STD. TAT      72 hour      48 hour  
 24 hour      4 day      5 day

**Data Package Options (please circle if required)**

QC Summary      Type I — Full  
 Type VI (Raw Data)       Coelt Deliverable not needed  
 WIP (RWQCB)  
 Disk

Relinquished by: <u>[Signature]</u>	Date: <u>6-2-04</u>	Time: <u>1220</u>	Received by: <u>[Signature]</u>	Date: <u>6/2/04</u>	Time: <u>0700</u>
Relinquished by: <u>[Signature]</u>	Date: <u>6-2-04</u>	Time: <u>0935</u>	Received by: <u>[Signature]</u>	Date: <u>6/4/04</u>	Time: <u>0935</u>
Relinquished by: <u>[Signature]</u>	Date: <u>6-4-04</u>	Time: <u>1530</u>	Received by: <u>Airborne/DHL</u>	Date: <u>6/4/04</u>	Time: _____
Relinquished by Commercial Carrier: UPS      FedEx      Other _____			Received by: <u>Jessica Ban</u>	Date: <u>6/5/04</u>	Time: <u>0910</u>
Temperature Upon Receipt: <u>4°</u> C°			Custody Seals Intact? <u>Yes</u> No		



# Analysis Report

2425 New Holland Pike, PO Box 18425, Lancaster, PA 17605-2425 • TIT: 610-266-2000 Fax: 717-654-2500 • www.lancasterlabs.com

## ANALYTICAL RESULTS

Prepared for:

ChevronTexaco  
6001 Bollinger Canyon Rd L4310  
San Ramon CA 94583

925-842-8582

Prepared by:

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

## SAMPLE GROUP

The sample group for this submittal is 898766. Samples arrived at the laboratory on Saturday, June 05, 2004. The PO# for this group is 99011184 and the release number is STREICH.

<u>Client Description</u>			<u>Lancaster Labs Number</u>
QA-T-040602	NA	Water	4287170
MW-1-W-040602	Grab	Water	4287171
MW-2-W-040602	Grab	Water	4287172
MW-3-W-040602	Grab	Water	4287173
MW-4-W-040602	Grab	Water	4287174
MW-5-W-040602	Grab	Water	4287175
MW-6-W-040602	Grab	Water	4287176
MW-7-W-040602	Grab	Water	4287177

1 COPY TO  
ELECTRONIC  
COPY TO

Cambria C/O Gettler- Ryan  
Gettler-Ryan

Attn: Deanna L. Harding  
Attn: Cheryl Hansen



## Analysis Report

2425 New Holland Pkwy, PO Box 12426, Lancaster, PA 17602-2425 • 717-656-2300 Fax: 717-656-2501 • [www.lancasterlabs.com](http://www.lancasterlabs.com)

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

Respectfully Submitted,

A handwritten signature in cursive script that reads "Victoria M. Martell".

Victoria M. Martell  
Chemist



# Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17602-2425 • 717-656-2300 Fax: 717-656-2801 • www.lancasterlabs.com

Lancaster Laboratories Sample No. WW 4287170

QA-T-040602 NA Water  
Facility# 91851 Job# 385145 GRD  
451 Hegenberger-Oakland T0600102238 QA  
Collected: 06/02/2004

Account Number: 10904

Submitted: 06/05/2004 09:10  
Reported: 06/14/2004 at 18:46  
Discard: 07/15/2004

ChevronTexaco  
6001 Bollinger Canyon Rd L4310  
San Ramon CA 94583

HROQA

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01728	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.						
06054	BTEX+MTBE by 8260B					
02010	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	ug/l	1
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5	ug/l	1

State of California Lab Certification No. 2116

## Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01728	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	06/07/2004 14:56	Michael F Barrow	1
06054	BTEX+MTBE by 8260B	SW-846 8260B	1	06/10/2004 10:54	Shawn J Rice	1
01146	GC VOA Water Prep	SW-846 5030B	1	06/07/2004 14:56	Michael F Barrow	n.a.
01163	GC/MS VOA Water Prep	SW-846 5030B	1	06/10/2004 10:54	Shawn J Rice	n.a.

Lancaster Laboratories Sample No. WW 4287171

MW-1-W-040602 Grab Water  
 Facility# 91851 Job# 385145 GRD  
 451 Hegenberger-Oakland T0600102238 MW-1  
 Collected: 06/02/2004 08:55 by JA

Account Number: 10904

Submitted: 06/05/2004 09:10  
 Reported: 06/14/2004 at 18:46  
 Discard: 07/15/2004

ChevronTexaco  
 6001 Bollinger Canyon Rd L4310  
 San Ramon CA 94583

HRO01

CAT No.	Analysis Name	CAS Number	As Received	As Received	Units	Dilution Factor
			Result	Method Detection Limit		
01728	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.					
01594	BTEX+5 Oxygenates+EDC+EDB+ETOH					
01587	Ethanol	64-17-5	N.D.	50.	ug/l	1
02010	Methyl Tertiary Butyl Ether	1634-04-4	93.	0.5	ug/l	1
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5	ug/l	1

State of California Lab Certification No. 2116

### Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
01728	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	06/07/2004 16:23	Michael F Barrow	1
01594	BTEX+5 Oxygenates+EDC+EDB+ETOH	SW-846 8260B	1	06/08/2004 22:29	Shawn J Rice	1
01146	GC VOA Water Prep	SW-846 5030B	1	06/07/2004 16:23	Michael F Barrow	n.a.
01163	GC/MS VOA Water Prep	SW-846 5030B	1	06/08/2004 22:29	Shawn J Rice	n.a.



# Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2200 Fax: 717-656-2601 • www.lancasterlabs.com

Lancaster Laboratories Sample No. WW 4287172

MW-2-W-040602 Grab Water  
Facility# 91851 Job# 385145 GRD  
451 Hegenberger-Oakland T0600102238 MW-2  
Collected: 06/02/2004 09:30 by JA

Account Number: 10904

Submitted: 06/05/2004 09:10  
Reported: 06/14/2004 at 18:46  
Discard: 07/15/2004

ChevronTexaco  
6001 Bollinger Canyon Rd L4310  
San Ramon CA 94583

HRO02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01728	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.						
01594	BTEX+5 Oxygenates+EDC+EDB+ETOH					
01587	Ethanol	64-17-5	N.D.	50.	ug/l	1
02010	Methyl Tertiary Butyl Ether	1634-04-4	46.	0.5	ug/l	1
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5	ug/l	1

State of California Lab Certification No. 2116

## Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01728	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	06/07/2004 16:52	Michael F Barrow	1
01594	BTEX+5 Oxygenates+EDC+EDB+ETOH	SW-846 8260B	1	06/08/2004 17:10	Shawn J Rice	1
01146	GC VOA Water Prep	SW-846 5030B	1	06/07/2004 16:52	Michael F Barrow	n.a.
01163	GC/MS VOA Water Prep	SW-846 5030B	1	06/08/2004 17:10	Shawn J Rice	n.a.



Lancaster Laboratories Sample No. WW 4287173

MW-3-W-040602                      Grab                      Water  
 Facility# 91851    Job# 385145                      GRD  
 451 Hegenberger-Oakland    T0600102238    MW-3  
 Collected: 06/02/2004 10:06                      by JA

Account Number: 10904

Submitted: 06/05/2004 09:10  
 Reported: 06/14/2004 at 18:46  
 Discard: 07/15/2004

ChevronTexaco  
 6001 Bollinger Canyon Rd L4310  
 San Ramon CA 94583

HRO03

CAT No.	Analysis Name	CAS Number	As Received	As Received	Units	Dilution Factor
			Result	Method Detection Limit		
01728	TPH-GRO - Waters	n.a.	220.	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.					
01594	BTEX+5 Oxygenates+EDC+EDB+ETOH					
01587	Ethanol	64-17-5	N.D.	50.	ug/l	1
02010	Methyl Tertiary Butyl Ether	1634-04-4	1,500.	5.	ug/l	10
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5	ug/l	1

State of California Lab Certification No. 2116

### Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis	Analyst	Dilution Factor
				Date and Time		
01728	TPH-GRO - Waters	N. CA LUFT Gasoline	1	06/07/2004 19:46	Michael F Barrow	1
01594	BTEX+5	SW-846 8260B	1	06/08/2004 17:37	Shawn J Rice	1
01594	Oxygenates+EDC+EDB+ETOH	SW-846 8260B	1	06/08/2004 17:37	Shawn J Rice	10
01594	BTEX+5	SW-846 8260B	1	06/08/2004 22:56	Shawn J Rice	10
01594	Oxygenates+EDC+EDB+ETOH	SW-846 8260B	1	06/08/2004 22:56	Shawn J Rice	10
01146	GC VOA Water Prep	SW-846 5030B	1	06/07/2004 19:46	Michael F Barrow	n.a.
01163	GC/MS VOA Water Prep	SW-846 5030B	1	06/08/2004 17:37	Shawn J Rice	n.a.



# Analysis Report

2425 New Hickory Pk. PO Box 12425, Lancaster, PA 17603-2425 • 717-656-2300 Fax: 717-656-2801 • www.lancasterlabs.com

Lancaster Laboratories Sample No. WW 4287174

MW-4-W-040602 Grab Water  
Facility# 91851 Job# 385145 GRD  
451 Hegenberger-Oakland T0600102238 MW-4  
Collected: 06/02/2004 10:50 by JA

Account Number: 10904

Submitted: 06/05/2004 09:10  
Reported: 06/14/2004 at 18:46  
Discard: 07/15/2004

ChevronTexaco  
6001 Bollinger Canyon Rd L4310  
San Ramon CA 94583

HRO04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		
01728	TPH-GRO - Waters	n.a.	240.	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.						
01594	BTEX+5 Oxygenates+EDC+EDB+ETOH						
01587	Ethanol	64-17-5	N.D.	50.		ug/l	1
02010	Methyl Tertiary Butyl Ether	1634-04-4	1,600.	10.		ug/l	20
05401	Benzene	71-43-2	N.D.	0.5		ug/l	1
05407	Toluene	108-88-3	N.D.	0.5		ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5		ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5		ug/l	1

State of California Lab Certification No. 2116

## Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
01728	TPH-GRO - Waters	N. CA LUFT Gasoline	1	06/07/2004 20:15	Michael F Barrow	1
01594	BTEX+5	SW-846 8260B	1	06/08/2004 18:30	Shawn J Rice	1
01594	Oxygenates+EDC+EDB+ETOH	SW-846 8260B	1	06/08/2004 23:22	Shawn J Rice	20
	BTEX+5	SW-846 8260B	1	06/08/2004 23:22	Shawn J Rice	20
01146	Oxygenates+EDC+EDB+ETOH	SW-846 5030B	1	06/07/2004 20:15	Michael F Barrow	n.a.
01163	GC VOA Water Prep	SW-846 5030B	1	06/08/2004 18:30	Shawn J Rice	n.a.
	GC/MS VOA Water Prep	SW-846 5030B	1	06/08/2004 18:30	Shawn J Rice	n.a.



# Analysis Report

2425 New Holland Pk. PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-3601 • www.lancasterlabs.com

Lancaster Laboratories Sample No. WW 4287175

MW-5-W-040602 Grab Water  
Facility# 91851 Job# 385145 GRD  
451 Hegenberger-Oakland T0600102238 MW-5  
Collected: 06/02/2004 08:15 by JA

Account Number: 10904

Submitted: 06/05/2004 09:10  
Reported: 06/14/2004 at 18:46  
Discard: 07/15/2004

ChevronTexaco  
6001 Bollinger Canyon Rd L4310  
San Ramon CA 94583

HRO05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Dilution Factor
				Method	Units	
01728	TPH-GRO - Waters	n.a.	N.D.	Detection Limit 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.						
01594	BTEX+5 Oxygenates+EDC+EDB+ETOH					
01587	Ethanol	64-17-5	N.D.	50.	ug/l	1
02010	Methyl Tertiary Butyl Ether	1634-04-4	110.	0.5	ug/l	1
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5	ug/l	1

State of California Lab Certification No. 2116

## Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
01728	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	06/07/2004 17:21	Michael F Barrow	1
01594	BTEX+5 Oxygenates+EDC+EDB+ETOH	SW-846 8260B	1	06/08/2004 19:23	Shawn J Rice	1
01146	GC VOA Water Prep	SW-846 5030B	1	06/07/2004 17:21	Michael F Barrow	n.a.
01163	GC/MS VOA Water Prep	SW-846 5030B	1	06/08/2004 19:23	Shawn J Rice	n.a.



# Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2801 • www.lancasterlabs.com

Lancaster Laboratories Sample No. WW 4287176

MW-6-W-040602 Grab Water GRD  
Facility# 91851 Job# 385145  
451 Hegenberger-Oakland T0600102238 MW-6  
Collected: 06/02/2004 07:05 by JA

Account Number: 10904

Submitted: 06/05/2004 09:10  
Reported: 06/14/2004 at 18:46  
Discard: 07/15/2004

ChevronTexaco  
6001 Bollinger Canyon Rd L4310  
San Ramon CA 94583

HRO06

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01728	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.					
01594	BTEX+5 Oxygenates+EDC+EDB+ETOH					
01587	Ethanol	64-17-5	N.D.	50.	ug/l	1
02010	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	ug/l	1
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5	ug/l	1

State of California Lab Certification No. 2116

## Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
01728	TPH-GRO - Waters	N. CA LUPT Gasline	1	06/07/2004 17:50	Michael F Barrow	1
01594	BTEX+5 Oxygenates+EDC+EDB+ETOH	SW-846 8260B	1	06/08/2004 19:49	Shawn J Rice	1
01146	GC VOA Water Prep	SW-846 5030B	1	06/07/2004 17:50	Michael F Barrow	n.a.
01163	GC/MS VOA Water Prep	SW-846 5030B	1	06/08/2004 19:49	Shawn J Rice	n.a.



# Analysis Report

2425 New Holland Pk. PO Box 12425, Lancaster, PA 17605-2425 • 717-856-2300 Fax: 717-856-2601 • www.lancasterlabs.com

Lancaster Laboratories Sample No. WW 4287177

MW-7-W-040602 Grab Water  
Facility# 91851 Job# 385145 GRD  
451 Hegenberger-Oakland T0600102238 MW-7  
Collected: 06/02/2004 07:38 by JA

Account Number: 10904

Submitted: 06/05/2004 09:10  
Reported: 06/14/2004 at 18:46  
Discard: 07/15/2004

ChevronTexaco  
6001 Bollinger Canyon Rd L4310  
San Ramon CA 94583

HRO07

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01728	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.						
01594	BTEX+5 Oxygenates+EDC+EDB+ETOH					
01587	Ethanol	64-17-5	N.D.	50.	ug/l	1
02010	Methyl Tertiary Butyl Ether	1634-04-4	87.	0.5	ug/l	1
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5	ug/l	1

State of California Lab Certification No. 2116

## Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01728	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	06/07/2004 18:19	Michael F Barrow	1
01594	BTEX+5 Oxygenates+EDC+EDB+ETOH	SW-846 8260B	1	06/08/2004 20:16	Shawn J Rice	1
01146	GC VOA Water Prep	SW-846 5030B	1	06/07/2004 18:19	Michael F Barrow	n.a.
01163	GC/MS VOA Water Prep	SW-846 5030B	1	06/08/2004 20:16	Shawn J Rice	n.a.

## Quality Control Summary

 Client Name: ChevronTexaco  
 Reported: 06/14/04 at 06:46 PM

Group Number: 898766

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

### Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 04159A08B TPH-GRO - Waters	N.D.	50.	Sample number(s): 4287170 ug/l	113	114	70-130	1	30
Batch number: 04159A08C TPH-GRO - Waters	N.D.	50.	Sample number(s): 4287171-4287177 ug/l	113	114	70-130	1	30
Batch number: P041602AB Ethanol	N.D.	50.	Sample number(s): 4287171-4287177 ug/l	47		46-145		
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	113		77-127		
Benzene	N.D.	0.5	ug/l	113		85-117		
Toluene	N.D.	0.5	ug/l	114		85-115		
Ethylbenzene	N.D.	0.5	ug/l	116		82-119		
Xylene (Total)	N.D.	0.5	ug/l	117		84-120		
Batch number: P041621AA Methyl Tertiary Butyl Ether	N.D.	0.5	Sample number(s): 4287170 ug/l	101		77-127		
Benzene	N.D.	0.5	ug/l	103		85-117		
Toluene	N.D.	0.5	ug/l	103		85-115		
Ethylbenzene	N.D.	0.5	ug/l	103		82-119		
Xylene (Total)	N.D.	0.5	ug/l	104		84-120		

### Sample Matrix Quality Control

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 04159A08B TPH-GRO - Waters	115		Sample number(s): 4287170 63-154						
Batch number: 04159A08C TPH-GRO - Waters	115		Sample number(s): 4287171-4287177 63-154						
Batch number: P041602AB Ethanol	86	92	41-155	6	30				
Methyl Tertiary Butyl Ether	120	118	69-134	1	30				
Benzene	124	121	83-128	2	30				
Toluene	124	123	83-127	1	30				
Ethylbenzene	127	124	82-129	2	30				
Xylene (Total)	125	125	82-130	1	30				
Batch number: P041621AA Methyl Tertiary Butyl Ether	105	105	Sample number(s): 4287170 69-134	0	30				

\*- 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.

## Quality Control Summary

Client Name: ChevronTexaco  
Reported: 06/14/04 at 06:46 PM

Group Number: 898766

### Sample Matrix Quality Control

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Benzene	111	110	83-128	1	30				
Toluene	112	110	83-127	2	30				
Ethylbenzene	112	109	82-129	3	30				
Xylene (Total)	111	109	82-130	2	30				

### Surrogate Quality Control

Analysis Name: TPH-GRO - Waters  
Batch number: 04159A08B  
Trifluorotoluene-F

4287170	103
Blank	109
LCS	119
LCSD	114
MS	120

Limits: 57-146

Analysis Name: TPH-GRO - Waters  
Batch number: 04159A08C  
Trifluorotoluene-F

4287171	105
4287172	112
4287173	105
4287174	104
4287175	105
4287176	105
4287177	105
Blank	102
LCS	119
LCSD	114
MS	120

Limits: 57-146

Analysis Name: BTEX+5 Oxygenates+EDC+EDB+ETOH  
Batch number: P041602AB

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
4287171	107	106	107	105
4287172	107	106	108	106
4287173	108	106	108	107
4287174	108	105	108	105
4287175	108	107	106	104
4287176	108	105	107	106
4287177	108	106	106	104
Blank	109	106	107	105
LCS	107	105	108	106
MS	108	107	107	106
MSD	107	106	108	106

\*- 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.

## Quality Control Summary

Client Name: ChevronTexaco  
Reported: 06/14/04 at 06:46 PM

Group Number: 898766

### Surrogate Quality Control

Limits:	81-120	82-112	85-112	83-113
Analysis Name:	BTEX+MTBE by 8260B			
Batch number:	P041621AA			
	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
4287170	108	109	107	106
Blank	107	107	106	105
LCS	107	106	107	105
MS	107	106	107	105
MSD	108	106	106	105
Limits:	81-120	82-112	85-112	83-113

\*- 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.



# Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

<b>N.D.</b>	none detected	<b>BMQL</b>	Below Minimum Quantitation Level
<b>TNTC</b>	Too Numerous To Count	<b>MPN</b>	Most Probable Number
<b>IU</b>	International Units	<b>CP Units</b>	cobalt-chloroplatinate units
<b>umhos/cm</b>	micromhos/cm	<b>NTU</b>	nephelometric turbidity units
<b>C</b>	degrees Celsius	<b>F</b>	degrees Fahrenheit
<b>meq</b>	milliequivalents	<b>lb.</b>	pound(s)
<b>g</b>	gram(s)	<b>kg</b>	kilogram(s)
<b>ug</b>	microgram(s)	<b>mg</b>	milligram(s)
<b>ml</b>	milliliter(s)	<b>l</b>	liter(s)
<b>m3</b>	cubic meter(s)	<b>ul</b>	microliter(s)
<b>&lt;</b>	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
<b>&gt;</b>	greater than		
<b>J</b>	estimated value - The result is $\geq$ the Method Detection Limit (MDL) and $<$ the Limit of Quantitation (LOQ).		
<b>ppm</b>	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
<b>ppb</b>	parts per billion		
<b>Dry weight basis</b>	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

## U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
<b>A</b>	TIC is a possible aldol-condensation product	<b>B</b>	Value is $<$ CRDL, but $\geq$ IDL
<b>B</b>	Analyte was also detected in the blank	<b>E</b>	Estimated due to interference
<b>C</b>	Pesticide result confirmed by GC/MS	<b>M</b>	Duplicate injection precision not met
<b>D</b>	Compound quantitated on a diluted sample	<b>N</b>	Spike sample not within control limits
<b>E</b>	Concentration exceeds the calibration range of the instrument	<b>S</b>	Method of standard additions (MSA) used for calculation
<b>N</b>	Presumptive evidence of a compound (TICs only)	<b>U</b>	Compound was not detected
<b>P</b>	Concentration difference between primary and confirmation columns $>$ 25%	<b>W</b>	Post digestion spike out of control limits
<b>U</b>	Compound was not detected	<b>*</b>	Duplicate analysis not within control limits
<b>X,Y,Z</b>	Defined in case narrative	<b>+</b>	Correlation coefficient for MSA $<$ 0.995

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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