

RECEIVED

2:51 pm, Apr 12, 2010

Alameda County  
Environmental Health



**GETTLER-RYAN Inc.**

**TRANSMITTAL**

March 23, 2009

G-R #386383

TO: Ms. Charlotte Evans  
Conestoga-Rovers & Associates  
5900 Hollis Street, Suite A  
Emeryville, California 94608  
**(VIA PDF)**

CC: Mr. Aaron Costa  
Chevron Environmental  
Management Company  
6111 Bollinger Canyon Road,  
Room 3660  
San Ramon, California 94583  
**(VIA PDF)**

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

RE: **Chevron Service Station  
#9-4800  
1700 Castro Street  
Oakland, California  
RO 0000342**

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DATED	DESCRIPTION
1	March 18, 2009	Groundwater Monitoring and Sampling Report First Quarter Event of February 23, 2009

COMMENTS:

Pursuant to your request, we are providing you with copies of the above referenced items for **your use and distribution (including PDF submittal of the entire report to GeoTracker)**:

Mr. Steven Plunkett, Alameda County Health Care Services, Dept. of Environmental Health, 1131 Harbor Bay Parkway, Suite 250, Alameda, CA 94502-6577 (No Hard Copy-UPLOAD TO ALAMEDA CO.)

Enclosures

trans/9-4800-AC



**Aaron Costa**  
Project Manager  
Marketing Business Unit

**Chevron Environmental  
Management Company**  
6111 Bollinger Canyon Road  
San Ramon, CA 94583  
Tel (925) 543-2961  
Fax (925) 543-2324  
acosta@chevron.com

March 23, 2009

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

Re: Chevron Service Station No. 9-4800  
Address 1700 Castro Street

I have reviewed the attached routine groundwater monitoring report dated  
March 23, 2009.

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 who 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,

A handwritten signature in black ink that reads "Aaron Costa".

Aaron Costa  
Project Manager

Attachment: Report

## WELL CONDITION STATUS SHEET

Client/Facility #: **Chevron #9-4800**  
 Site Address: **1700 Castro Street**  
 City: **Oakland, CA**

Job # **386383**  
 Event Date: **2/23/09**  
 Sampler: **SR**

WELL ID	Vault Frame Condition	Gasket/O-Ring (M)missing	BOLTS (M) Missing (R) Replaced	Bolt Flanges B= Broken S= Stripped R=Retap	APRON Condition C=Cracked B=Broken G=Gone	Grout Seal (Deficient) inches from TOC	Casing (Condition prevents tight cap seal)	REPLACE LOCK Y/N	REPLACE CAP Y/N	WELL VAULT Manufacture/Size/ # of Bolts	Pictures Taken Yes / No
MW-1	ok	→				→		N	N	Boart-Ingys/8"/3	N
MW-2	ok	→	1(M)	2(S)	ok	→		N	N	Boart-Ingys/8"/3	
MW-3	ok	→				→		N	N	Boart-Ingys/8"/3	
MW-4	ok	→		1(S)	ok	→		N	N	Boart-Ingys/8"/3	
MW-7	ok	(M)	ok	1(S)	ok	→		N	N	Boart-Ingys/8"/3	↓

Comments \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



# GETTLER - RYAN INC.



March 18, 2009  
G-R Job #386383

Mr. Aaron Costa  
Chevron Environmental Management Company  
6111 Bollinger Canyon Road, Room 3660  
San Ramon, CA 94583

**RE: First Quarter Event of February 23, 2009**  
Groundwater Monitoring & Sampling Report  
Chevron Service Station #9-4800  
1700 Castro Street  
Oakland, California

Dear Mr. Costa:

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 well 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. All groundwater and decontamination water generated during sampling activities was removed from the site, per the Standard Operating Procedure.

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

Sincerely,

Deanna L. Harding  
Project Coordinator

Douglas J. Lee  
Senior Geologist, P.G. No. 6882

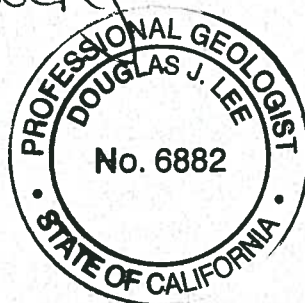


Figure 1: Potentiometric Map  
Table 1: Groundwater Monitoring Data and Analytical Results  
Table 2: Groundwater Analytical Results - Oxygenate Compounds  
Attachments: Standard Operating Procedure - Groundwater Sampling  
Field Data Sheets  
Chain of Custody Document and Laboratory Analytical Reports

**EXPLANATION**

- ◆ Groundwater monitoring well
- ⊗ Destroyed well
- 99.99 Groundwater elevation in feet referenced to Mean Sea Level
- - - 99.99 - - - Groundwater elevation contour, dashed where inferred

OVERPASS

**HIGHWAY 980**

OVERPASS

6.70 ◆ MW-7  
6.75

Fence  
Planter

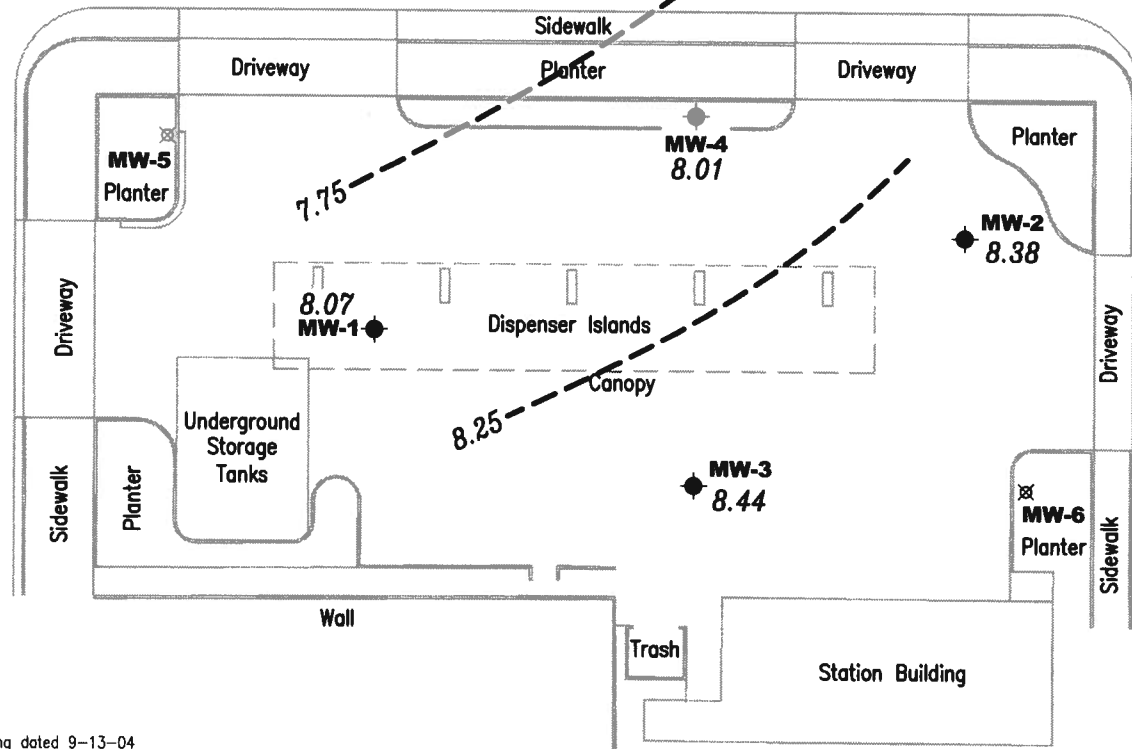
**CASTRO STREET**

7.25  
7.75

Approximate groundwater flow direction at a gradient of 0.008 to 0.01 Ft./Ft.

**17TH STREET**

**18TH STREET**



Source: Figure modified from drawing provided by RRM and Morrow Surveying dated 9-13-04

**GETTLER - RYAN Inc.**  
6747 Sierra Court, Suite J  
Dublin, CA 94568 (925) 551-7555

**POTENTIOMETRIC MAP**  
Chevron Service Station #9-4800  
1700 Castro Street  
Oakland, California

FIGURE

**1**

PROJECT NUMBER  
**386383**

REVIEWED BY

DATE  
February 23, 2009

REVISED DATE

FILE NAME: P:\Enviro\Chevron\9-4800\009-9-4800.dwg | Layout Tab: Pot1

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Chevron Service Station #9-4800  
1700 Castro Street  
Oakland, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	TPH-DRO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
<b>MW-1</b>										
06/04/97	30.75	4.39	25.82	71 <sup>1</sup>	890	100	110	29	150	<10
09/16/97	30.75	4.85	25.90	75 <sup>1</sup>	1,600	210	210	60	250	<10
12/17/97	30.75	4.88	25.87	65 <sup>1</sup>	940	120	100	41	160	<25
03/18/98	30.75	5.90	24.85	77 <sup>1</sup>	530	91	39	22	65	6.8
06/28/98	30.75	5.92	24.83	140 <sup>1</sup>	1,100	220	140	37	120	14
09/07/98	30.75	5.56	25.19	280 <sup>1</sup>	1,700	530	86	84	240	49
12/09/98	30.75	5.10	25.65	240 <sup>1</sup>	1,700	240	130	100	270	32
03/11/99	30.75	5.30	25.45	98 <sup>1</sup>	353	53.9	28.6	20.5	56.1	14.1
06/17/99	30.75	5.39	25.36	217 <sup>1</sup>	810	270	150	95	340	15
09/29/99	30.75	5.13	25.62	153 <sup>1</sup>	659	76	49.7	35.1	118	12.6
12/14/99	30.75	5.07	25.68	188 <sup>1,2</sup>	2,760	287	199	139	502	<12.5
03/09/00 <sup>3</sup>	30.75	5.54	25.21	166 <sup>1</sup>	1,590	238	94.9	72.2	247	22.3
06/10/00	30.75	5.73	25.02	--	1,460	242	47.8	83.8	151	97.3
09/30/00	30.75	5.30	25.45	240 <sup>7</sup>	650 <sup>6</sup>	130	49	69	190	21
12/22/00	30.75	5.05	25.70	200 <sup>9</sup>	640 <sup>6</sup>	110	33	58	160	68
03/01/01	30.75	5.25	25.50	211 <sup>7</sup>	1,500 <sup>6</sup>	210	67.9	109	320	87.3
05/04/01	30.75	5.41	25.34	130 <sup>7</sup>	991	127	32.6	73.0	137	95.4
09/05/01	30.75	5.16	25.59	SAMPLED SEMI-ANNUALLY		--	--	--	--	--
12/21/01	30.75	5.17	25.58	210	2,000	220	16	110	400	34
03/15/02	30.75	5.60	25.15	--	--	--	--	--	--	--
06/15/02	30.75	5.49	25.26	140	350	54	0.61	12	40	130
09/06/02	30.75	5.26	25.49	SAMPLED SEMI-ANNUALLY		--	--	--	--	--
12/06/02	30.75	5.12	25.63	2,900	900	71	2.1	39	150	34
03/03/03	30.75	5.46	25.29	SAMPLED SEMI-ANNUALLY		--	--	--	--	--
06/17/03 <sup>14</sup>	30.75	5.64	25.11	180	290	34	0.6	23	90	92
09/16/03	30.75	5.37	25.38	SAMPLED SEMI-ANNUALLY		--	--	--	--	--
12/31/03 <sup>14</sup>	30.75	5.20	25.55	150	1,500	97	6	70	230	86
03/26/04	30.75	5.74	25.01	SAMPLED SEMI-ANNUALLY		--	--	--	--	--
08/17/04 <sup>14</sup>	30.75	4.59	26.16	860	500	44	5	12	54	76
11/16/04 <sup>14</sup>	34.01	7.85	26.16	<26	570	33	<0.5	14	53	48
02/18/05	34.01	8.25	25.76	SAMPLED SEMI-ANNUALLY		--	--	--	--	--
05/06/05 <sup>14</sup>	34.01	8.62	25.39	110	170	13	<0.5	4	18	220
08/05/05	34.01	8.31	25.70	SAMPLED SEMI-ANNUALLY		--	--	--	--	--
11/07/05 <sup>14</sup>	34.01	7.99	26.02	260 <sup>20</sup>	180	7	<0.5	3	24	260
02/06/06	34.01	8.33	25.68	SAMPLED SEMI-ANNUALLY		--	--	--	--	--
05/08/06 <sup>14</sup>	34.01	9.03	24.98	730	270	23	<0.7	1	18	590

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Chevron Service Station #9-4800  
1700 Castro Street  
Oakland, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	TPH-DRO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
<b>MW-1 (cont)</b>										
08/08/06	34.01	8.49	25.52	SAMPLED SEMI-ANNUALLY		--	--	--	--	--
11/08/06 <sup>14</sup>	34.01	8.11	25.90	380	<50	0.6	<0.5	<0.5	2	140
02/06/07	34.01	8.03	25.98	SAMPLED SEMI-ANNUALLY		--	--	--	--	--
05/01/07 <sup>14</sup>	34.01	8.23	25.78	750	58	0.8	<0.5	<0.5	1	280
07/31/07	34.01	8.01	26.00	SAMPLED SEMI-ANNUALLY		--	--	--	--	--
11/08/07 <sup>14</sup>	34.01	7.85	26.16	330	<50	<0.5	<0.5	<0.5	0.9	270
02/04/08	34.01	8.04	25.97	SAMPLED SEMI-ANNUALLY		--	--	--	--	--
05/01/08 <sup>14</sup>	34.01	8.06	25.95	86	<50	<0.5	<0.5	<0.5	<0.5	470
08/01/08	34.01	7.97	26.04	SAMPLED SEMI-ANNUALLY		--	--	--	--	--
11/13/08 <sup>14</sup>	34.01	7.88	26.13	<50	170	1	<0.5	<0.5	2	190
<b>02/23/09</b>	<b>34.01</b>	<b>8.07</b>	<b>25.94</b>	<b>SAMPLED SEMI-ANNUALLY</b>		<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>
<b>MW-2</b>										
06/04/97	30.00	5.13	24.87	4,000 <sup>1</sup>	13,000	790	30	420	1,700	4000
09/16/97	30.00	5.06	24.94	2,200 <sup>1</sup>	4,000	360	9.7	210	460	1500
12/17/97	30.00	5.18	24.82	2,100 <sup>1</sup>	4,100	380	<10	200	460	2100
03/18/98	30.00	6.43	23.57	3,700 <sup>1</sup>	8,400	1,800	<50	350	630	13,000
06/28/98 <sup>4</sup>	30.00	6.21	23.79	4,400 <sup>1</sup>	9,300	740	340	710	2,300	3800
09/07/98	30.00	5.78	24.22	3,100 <sup>1</sup>	9,900	1,000	150	640	1,800	4500/4100 <sup>5</sup>
12/09/98	30.00	5.31	24.69	1,900 <sup>1</sup>	8,500	860	74	610	960	2600/2600 <sup>5</sup>
03/11/99	30.00	5.79	24.21	2,700 <sup>1</sup>	12,500	1,520	42.2	645	2,250	3400/5050 <sup>5</sup>
06/17/99	30.00	5.69	24.31	7,150 <sup>1</sup>	27,000	2,200	260	1500	5,900	4700
09/29/99	30.00	5.45	24.55	3,030 <sup>1</sup>	6910	582	11.1	491	1,170	1970
12/14/99	30.00	5.39	24.61	615 <sup>1,2</sup>	4230	282	12.3	284	690	631
03/09/00 <sup>3</sup>	30.00	6.08	23.92	3,300 <sup>1</sup>	15,300	1,110	39.4	1,040	3,030	2,470
06/10/00	30.00	6.13	23.87	--	7,360	560	40.7	627	1,280	1,260
09/30/00	30.00	5.67	24.33	1,800 <sup>7</sup>	3,600 <sup>6</sup>	280	<10	420	430	290
12/22/00	30.00	5.39	24.61	870 <sup>9</sup>	1,500 <sup>6</sup>	100	<1.3	160	59	380
03/01/01	30.00	5.79	24.21	1,320 <sup>7</sup>	2,340 <sup>6</sup>	171	<5.00	238	157	864
05/04/01	30.00	5.83	24.17	3,100 <sup>7</sup>	11,900	199	33.9	1,420	290	3,890
09/05/01	30.00	5.45	24.55	2,200	3,300	170	1.7	310	110	1,100
12/21/01	30.00	5.60	24.40	980	1,100	58	0.72	120	14	450
03/15/02	30.00	6.05	23.95	2,200	5,000	250	9.1	470	430	1,800
06/15/02	30.00	5.84	24.16	3,700	5,200	240	5.2	540	210	2,200
09/06/02	30.00	5.59	24.41	2,200	2,100	84	1.4	250	30	1,000



**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Chevron Service Station #9-4800  
1700 Castro Street  
Oakland, California

WELL ID/ DATE	TOC* ( <i>ft.</i> )	GWE ( <i>msl</i> )	DTW ( <i>ft.</i> )	TPH-DRO ( <i>µg/L</i> )	TPH-GRO ( <i>µg/L</i> )	B ( <i>µg/L</i> )	T ( <i>µg/L</i> )	E ( <i>µg/L</i> )	X ( <i>µg/L</i> )	MTBE ( <i>µg/L</i> )
<b>MW-2 (cont)</b>										
12/06/02	30.00	5.44	24.56	730	780	21	<0.50	58	3.4	480
03/03/03	30.00	5.79	24.21	3,500	4,800	220	1.9	650	46	4,400
06/17/03 <sup>14</sup>	30.00	6.07	23.93	4,100	4,700	140	4	370	84	2,700
09/16/03 <sup>14</sup>	30.00	5.69	24.31	1,800 <sup>15</sup>	1,300	38	<1	110	3	1,300
12/31/03 <sup>14</sup>	30.00	5.64	24.36	330	990	11	<0.5	23	3	440
03/26/04	30.00	6.25	23.75	SAMPLED SEMI-ANNUALLY		--	--	--	--	--
08/17/04 <sup>14</sup>	30.00	5.53	24.47	400	300	9	<0.5	18	1	340
11/16/04 <sup>14</sup>	32.59	8.14	24.45	4,300	10,000	91	7	830	1,300	1,100
02/18/05	32.59	8.67	23.92	SAMPLED SEMI-ANNUALLY		--	--	--	--	--
05/06/05 <sup>14</sup>	32.59	9.06	23.53	1,300	4,900	62	4	290	320	400
08/05/05	32.59	8.61	23.98	SAMPLED SEMI-ANNUALLY		--	--	--	--	--
11/07/05 <sup>14</sup>	32.59	8.27	24.32	300 <sup>20</sup>	800	2	<0.5	<0.5	<0.5	66
02/06/06	32.59	8.76	23.83	SAMPLED SEMI-ANNUALLY		--	--	--	--	--
05/08/06 <sup>14</sup>	32.59	9.49	23.10	2,100	6,100	32	4	430	460	360
08/08/06	32.59	8.79	23.80	SAMPLED SEMI-ANNUALLY		--	--	--	--	--
11/08/06 <sup>14</sup>	32.59	8.32	24.27	770	120	12	<0.5	0.7	8	840
02/06/07	32.59	8.30	24.29	SAMPLED SEMI-ANNUALLY		--	--	--	--	--
05/01/07 <sup>14</sup>	32.59	8.54	24.05	160	850	<0.5	<0.5	16	36	100
07/31/07	32.59	8.28	24.31	SAMPLED SEMI-ANNUALLY		--	--	--	--	--
11/08/07 <sup>14</sup>	32.59	8.12	24.47	800	180	<0.5	<0.5	<0.5	<0.5	37
02/04/08	32.59	8.38	24.21	SAMPLED SEMI-ANNUALLY		--	--	--	--	--
05/01/08 <sup>14</sup>	32.59	8.34	24.25	500	430	<0.5	<0.5	<0.5	5	120
08/01/08	32.59	8.26	24.33	SAMPLED SEMI-ANNUALLY		--	--	--	--	--
11/13/08 <sup>14</sup>	32.59	8.17	24.42	2,600	2,500	3	1	190	83	240
<b>02/23/09</b>	<b>32.59</b>	<b>8.38</b>	<b>24.21</b>	<b>SAMPLED SEMI-ANNUALLY</b>		--	--	--	--	--
<b>MW-3</b>										
06/04/97	31.32	5.27	26.05	<50	190	26	20	1.5	16	8.2
09/16/97	31.32	5.17	26.15	<50	270	58	53	6.1	30	21
12/17/97	31.32	5.22	26.10	<50	290	50	54	8.1	37	21
03/18/98	31.32	6.42	24.90	<50	390	140	33	4.6	30	94
06/28/98	31.32	6.39	24.93	<50	290	90	11	1.6	13	150
09/07/98	31.32	5.97	25.35	<50	170	46	20	4.3	19	120
12/09/98	31.32	5.41	25.91	55 <sup>1</sup>	660	120	93	22	72	150
03/11/99	31.32	5.85	25.47	<50	653	136	69.5	13.7	63.8	144



**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Chevron Service Station #9-4800  
1700 Castro Street  
Oakland, California

WELL ID/ DATE	TOC* (ft.)	GWE (mst)	DTW (ft.)	TPH-DRO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
<b>MW-3 (cont)</b>										
06/17/99	31.32	5.90	25.42	103 <sup>1</sup>	530	190	110	24	88	210
09/29/99	31.32	5.61	25.71	232 <sup>1</sup>	433	97.8	61.4	16.9	56.6	156
12/14/99	31.32	5.55	25.77	<50 <sup>2</sup>	8650	1040	795	212	800	995
03/09/00 <sup>3</sup>	31.32	6.14	25.18	74.6 <sup>1</sup>	1170	304	103	25.2	114	539
06/10/00	31.32	6.29	25.03	--	359	63.8	27.8	10.5	35.4	393
09/30/00	31.32	5.79	25.53	100 <sup>8</sup>	220 <sup>6</sup>	42	33	12	38	67
12/22/00	31.32	5.52	25.80	110 <sup>9</sup>	370 <sup>6</sup>	96	48	18	58	180
03/01/01	31.32	5.75	25.57	144 <sup>7</sup>	912 <sup>6</sup>	218	89.0	36.0	110	310
05/04/01	31.32	5.96	25.36	<50	1,260	146	79.6	38.2	101	1,070
09/05/01	31.32	5.61	25.71	SAMPLED SEMI-ANNUALLY		--	--	--	--	--
12/21/01	31.32	5.67	25.65	180	850	160	11	32	84	300
03/15/02	31.32	6.15	25.17	--	--	--	--	--	--	--
06/15/02	31.32	6.01	25.31	<50	550	110	3.0	23	58	590
09/06/02	31.32	5.74	25.58	SAMPLED SEMI-ANNUALLY		--	--	--	--	--
12/06/02	31.32	5.56	25.76	160	350	60	1.3	11	32	530
03/03/03	31.32	5.92	25.40	SAMPLED SEMI-ANNUALLY		--	--	--	--	--
06/17/03 <sup>14</sup>	31.32	6.19	25.13	130	560	90	2	19	57	590
09/16/03	31.32	5.85	25.47	SAMPLED SEMI-ANNUALLY		--	--	--	--	--
12/31/03 <sup>14</sup>	31.32	5.67	25.65	120	840	140	24	25	87	670
03/26/04	31.32	6.33	24.99	SAMPLED SEMI-ANNUALLY		--	--	--	--	--
08/17/04 <sup>14</sup>	31.32	5.46	25.86	110	630	84	18	11	35	410
11/16/04 <sup>14</sup>	34.16	8.26	25.90	92	740	100	4	21	45	460
02/18/05	34.16	8.79	25.37	SAMPLED SEMI-ANNUALLY		--	--	--	--	--
05/06/05 <sup>14</sup>	34.16	9.18	24.98	83	290	43	<1	6	11	740
08/05/05	34.16	8.81	25.35	SAMPLED SEMI-ANNUALLY		--	--	--	--	--
11/07/05 <sup>14</sup>	34.16	8.47	25.69	66	220	29	0.7	3	26	440
02/06/06	34.16	8.88	25.28	SAMPLED SEMI-ANNUALLY		--	--	--	--	--
05/08/06 <sup>14</sup>	34.16	9.67	24.49	310	560	70	<1	3	24	3,300
08/08/06	34.16	9.00	25.16	SAMPLED SEMI-ANNUALLY		--	--	--	--	--
11/08/06 <sup>14</sup>	34.16	8.57	25.59	210	510	<0.5	<0.5	<0.5	<0.5	73
02/06/07	34.16	8.48	25.68	SAMPLED SEMI-ANNUALLY		--	--	--	--	--
05/01/07 <sup>14</sup>	34.16	8.70	25.46	84	260	36	<0.5	0.8	18	1,200
07/31/07	34.16	8.46	25.70	SAMPLED SEMI-ANNUALLY		--	--	--	--	--
11/08/07 <sup>14</sup>	34.16	8.29	25.87	260	270	32	0.9	3	29	440
02/04/08	34.16	8.48	25.68	SAMPLED SEMI-ANNUALLY		--	--	--	--	--
05/01/08 <sup>14</sup>	34.16	8.50	25.66	82	240	30	<0.5	<0.5	20	690

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Chevron Service Station #9-4800  
1700 Castro Street  
Oakland, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	TPH-DRO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
<b>MW-3 (cont)</b>										
08/01/08	34.16	8.40	25.76	SAMPLED SEMI-ANNUALLY		--	--	--	--	--
11/13/08 <sup>14</sup>	34.16	8.36	25.80	<50	720	22	<0.5	<0.5	7	790
<b>02/23/09</b>	<b>34.16</b>	<b>8.44</b>	<b>25.72</b>	<b>SAMPLED SEMI-ANNUALLY</b>		--	--	--	--	--
<b>MW-4</b>										
04/08/99	30.13	--	--	--	130	3.1	<0.5	<0.5	7.7	4,700
06/17/99	30.13	5.19	24.94	3,780 <sup>1</sup>	590	58	<5.0	<5.0	160	6,200
09/29/99	30.13	4.96	25.17	1,130 <sup>1</sup>	692	10.7	<2.5	5.51	236	7,840
12/14/99	30.13	4.91	25.22	571 <sup>1,2</sup>	625	<10	3.83	<10	94.6	4,470
03/09/00 <sup>3</sup>	30.13	5.45	24.68	600 <sup>1</sup>	402	3.76	1.18	<0.5	71.4	3,140
06/10/00	30.13	5.53	24.60	--	<1,000	13.2	<10.0	<10.0	97.8	3,080
09/30/00	30.13	5.09	25.04	1,400 <sup>7</sup>	280 <sup>6</sup>	21	0.67	6.3	60	3,300
12/22/00	30.13	4.90	25.23	740 <sup>9</sup>	240 <sup>6</sup>	2.2	<0.50	1.3	25	2,200
03/01/01	30.13	5.15	24.98	661 <sup>7</sup>	193	2.31	<0.500	1.34	12.1	1,220
05/04/01	30.13	5.25	24.88	1,100 <sup>7</sup>	722	12.0	<5.00	17.1	89.4	2,390
09/05/01	30.13	4.96	25.17	2,500	1,400	23	2.2	19	260	2,300
12/21/01	30.13	5.06	25.07	1,100	310	2.9	<0.50	2.6	32	860
03/15/02	30.13	5.44	24.69	3,100	520	5.0	<0.50	15	6.8	2,700
06/15/02	30.13	5.29	24.84	2,400	950	16	3.6	41	100	2,200/2,400 <sup>12</sup>
09/06/02	30.13	5.07	25.06	2,600	640	9.6	0.52	9.8	28	1,700
12/06/02	30.13	4.93	25.20	1,400	280	3.6	<0.50	1.7	<1.5	730
03/03/03	30.13	5.28	24.85	1,500	280	2.7	<0.50	7.3	2.3	910
06/17/03 <sup>14</sup>	30.13	5.44	24.69	2,000	660	8	1	38	16	1,100
09/16/03 <sup>14</sup>	30.13	5.15	24.98	2,100 <sup>16</sup>	480	6	<1	11	3	710
12/31/03 <sup>14</sup>	30.13	5.07	25.06	1,400	220	3	<0.5	2	<0.5	390
03/26/04	30.13	5.60	24.53	SAMPLED SEMI-ANNUALLY		--	--	--	--	--
08/17/04 <sup>14</sup>	30.13	4.68	25.45	2,100	470	12	1	28	4	370
11/16/04 <sup>14</sup>	33.07	7.63	25.44	960	270	7	<0.5	7	6	270
02/18/05	33.07	8.07	25.00	SAMPLED SEMI-ANNUALLY		--	--	--	--	--
05/06/05 <sup>14</sup>	33.07	8.38	24.69	350	86	0.7	<0.5	<0.5	<0.5	110
08/05/05	33.07	8.05	25.02	SAMPLED SEMI-ANNUALLY		--	--	--	--	--
11/07/05 <sup>14</sup>	33.07	7.74	25.33	150	54	0.6	<0.5	<0.5	<0.5	59
02/06/06	33.07	8.13	24.94	SAMPLED SEMI-ANNUALLY		--	--	--	--	--
05/08/06 <sup>14</sup>	33.07	8.80	24.27	200	66	0.5	<0.5	<0.5	<0.5	92
08/08/06	33.07	7.91	25.16	SAMPLED SEMI-ANNUALLY		--	--	--	--	--

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Chevron Service Station #9-4800  
1700 Castro Street  
Oakland, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	TPH-DRO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
<b>MW-4 (cont)</b>										
11/08/06 <sup>14</sup>	33.07	7.84	25.23	400	55	<0.5	<0.5	<0.5	<0.5	40
02/06/07	33.07	7.79	25.28	SAMPLED SEMI-ANNUALLY		--	--	--	--	--
05/01/07 <sup>14</sup>	33.07	7.99	25.08	150	67	<0.5	<0.5	<0.5	<0.5	76
07/31/07	33.07	7.80	25.27	SAMPLED SEMI-ANNUALLY		--	--	--	--	--
11/08/07 <sup>14</sup>	33.07	7.65	25.42	850	<50	<0.5	<0.5	<0.5	<0.5	44
02/04/08	33.07	7.84	25.23	SAMPLED SEMI-ANNUALLY		--	--	--	--	--
05/01/08 <sup>14</sup>	33.07	7.86	25.21	110	<50	<0.5	<0.5	<0.5	<0.5	67
08/01/08	33.07	7.79	25.28	SAMPLED SEMI-ANNUALLY		--	--	--	--	--
11/13/08 <sup>14</sup>	33.07	7.64	25.43	330	64	<0.5	<0.5	<0.5	1	220
<b>02/23/09</b>	<b>33.07</b>	<b>8.01</b>	<b>25.06</b>	<b>SAMPLED SEMI-ANNUALLY</b>		<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>
<b>MW-7</b>										
05/04/01 <sup>11</sup>	31.90	4.03	27.87	<50	<50.0	<0.500	<5.00	<5.00	<5.00	567/470 <sup>12</sup>
09/05/01	31.90	3.86	28.04	<50	<50	<0.50	<0.50	<0.50	<1.5	1,400/1,300 <sup>12</sup>
12/21/01	31.90	3.04	28.86	210	<50	<0.50	<0.50	<0.50	<1.5	620/670 <sup>12</sup>
03/15/02	31.90	4.18	27.72	<50	<50	<0.50	<0.50	<0.50	<1.5	320/350 <sup>12</sup>
06/15/02	31.90	4.06	27.84	<50	<50	<0.50	<0.50	<0.50	<1.5	850/960 <sup>12</sup>
09/06/02	31.90	3.93	27.97	<50	59	<0.50	<0.50	<0.50	<1.5	1,900
12/06/02	31.90	3.87	28.03	<50	68	<0.50	<0.50	<0.50	<1.5	2,200
03/03/03	31.90	4.21	27.69	<50	<50	<0.50	<0.50	<0.50	<1.5	1,300
06/17/03 <sup>14</sup>	31.90	4.14	27.76	<50	79	<0.5	<0.5	<0.5	<0.5	2,500
09/16/03 <sup>14</sup>	31.90	4.07	27.83	<50 <sup>17</sup>	110	<5	<5	<5	<5	4,400
12/31/03 <sup>14</sup>	31.90	4.04	27.86	<50	76	<2	<2	<2	<2	3,000
03/26/04 <sup>14</sup>	31.90	4.25	27.65	<50	61	<1	<1	<1	<1	2,000
08/17/04 <sup>14</sup>	31.90	4.02	27.88	2,200	130	<5	<5	<5	<5	8,000
11/16/04 <sup>14</sup>	34.35	6.48	27.87	<50	200	<3	<3	<3	<3	7,300
02/18/05 <sup>14</sup>	34.35	6.75	27.60	64	86	<10	<10	<10	<10	5,700
05/06/05 <sup>14</sup>	34.35	6.92	27.43	60	160	<5	<5	<5	<5	8,400
08/05/05 <sup>14</sup>	34.35	6.70	27.65	81 <sup>18</sup>	500	<5	<5	<5	<5	20,000 <sup>19</sup>
11/07/05 <sup>14</sup>	34.35	6.56	27.79	68	300	<10	<10	<10	<10	24,000
02/06/06 <sup>14</sup>	34.35	6.81	27.54	72 <sup>21</sup>	300	<0.5	<0.5	<0.5	<0.5	14,000
05/08/06 <sup>14</sup>	34.35	7.20	27.15	94	80	<2	<2	3	7	6,500
08/08/06 <sup>14</sup>	34.35	6.82	27.53	150	520	<10	<10	<10	<10	17,000
11/08/06 <sup>14</sup>	34.35	6.60	27.75	440	900	<5	<5	<5	<5	41,000
02/06/07 <sup>14</sup>	34.35	6.59	27.76	200	590	<5	<5	<5	<5	31,000

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Chevron Service Station #9-4800  
1700 Castro Street  
Oakland, California

WELL ID/ DATE	TOC* (fL)	GWE (msl)	DTW (ft.)	TPH-DRO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
<b>MW-7 (cont)</b>										
05/01/07 <sup>14</sup>	34.35	6.70	27.65	190	380	<3	<3	<3	<3	14,000
07/31/07 <sup>14</sup>	34.35	6.60	27.75	270	570	<3	<3	<3	<3	15,000
11/08/07 <sup>14</sup>	34.35	6.52	27.83	150	520	<5	<5	<5	<5	25,000
02/04/08 <sup>14</sup>	34.35	6.66	27.69	87	540	<1	<1	<1	<1	17,000
05/01/08 <sup>14</sup>	34.35	6.63	27.72	<50	230	<5	<5	<5	<5	10,000
08/01/08 <sup>14</sup>	34.35	6.51	27.84	<50	330	<3	<3	<3	<3	12,000
11/13/08 <sup>14</sup>	34.35	6.34	28.01	64	390	<10	<10	<10	<10	16,000
02/23/09 <sup>14</sup>	34.35	6.70	27.65	100	270	<3	<3	<3	<3	11,000
<b>MW-5</b>										
04/08/99	30.93	--	--	<50	<50	<0.5	<0.5	<0.5	<0.5	<2.5
06/17/99	30.93	4.93	26.00	53.8 <sup>1</sup>	<50	<0.5	<0.5	<0.5	<0.5	<2.5
09/29/99	30.93	4.73	26.20	<50	<50	<0.5	<0.5	<0.5	<0.5	<2.5
12/14/99	30.93	4.61	26.32	<50 <sup>2</sup>	<50	<0.5	<0.5	<0.5	<0.5	0.598
03/09/00 <sup>3</sup>	30.93	5.00	25.93	<50	<50	<0.5	<0.5	<0.5	<0.5	<2.5
06/10/00	30.93	5.21	25.72	--	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50
09/30/00	30.93	4.79	26.14	130 <sup>8</sup>	<50	<0.50	<0.50	<0.50	<0.50	<2.5
12/22/00	30.93	4.60	26.33	250 <sup>8</sup>	<50	<0.50	<0.50	<0.50	<0.50	9.1
03/01/01	30.93	4.77	26.16	77.4 <sup>7</sup>	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50
05/04/01	30.93	4.89	26.04	NOT SAMPLED DUE TO INSUFFICIENT WATER				--	--	--
09/05/01	30.93	4.72	26.21	SAMPLED SEMI-ANNUALLY				--	--	--
12/21/01	30.93	4.73	26.20	110	<50	<0.50	<0.50	<0.50	<1.5	<2.5
03/15/02	30.93	5.06	25.87	--	--	--	--	--	--	--
06/15/02	30.93	4.95	25.98	<50	<50	<0.50	<0.50	<0.50	<1.5	<2.5
09/06/02	30.93	4.75	26.18	SAMPLED SEMI-ANNUALLY				--	--	--
12/06/02	30.93	4.61	26.32	<50	<50	<0.50	<0.50	<0.50	<1.5	<2.5
03/03/03	30.93	4.94	25.99	SAMPLED SEMI-ANNUALLY				--	--	--
06/17/03 <sup>14</sup>	30.93	5.06	25.87	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5
09/16/03	30.93	4.84	26.09	SAMPLED SEMI-ANNUALLY				--	--	--
12/31/03 <sup>14</sup>	30.93	4.72	26.21	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5
03/26/04	30.93	5.19	25.74	SAMPLED SEMI-ANNUALLY				--	--	--
08/17/04	30.93	TO BE DESTROYED		--	--	--	--	--	--	--
DESTROYED - 2005										

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Chevron Service Station #9-4800  
1700 Castro Street  
Oakland, California

WELL ID/ DATE	TOC* (ft.)	GWE (mst)	DTW (ft.)	TPH-DRO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
<b>MW-6</b>										
04/08/99	30.58	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	4.5
06/17/99	30.58	5.99	24.59	<50	<50	<0.5	<0.5	<0.5	<0.5	<2.5
09/29/99	30.58	5.81	24.77	<50	<50	<0.5	<0.5	<0.5	<0.5	4.46
12/14/99	30.58	5.74	24.84	<50 <sup>2</sup>	<50	<0.5	<0.5	<0.5	<0.5	4.13
03/09/00 <sup>3</sup>	30.58	6.49	24.09	<50	<50	<0.5	<0.5	<0.5	<0.5	2.82
06/10/00	30.58	6.58	24.00	--	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50
09/30/00	30.58	6.00	24.58	110 <sup>8</sup>	<50	<0.50	<0.50	<0.50	<0.50	7.3
12/22/00	30.58	5.75	24.83	100 <sup>8</sup>	<50	<0.50	<0.50	<0.50	<0.50	4.5
03/01/01	30.58	6.07	24.51	141 <sup>7</sup>	<50.0	<0.500	<0.500	<0.500	<0.500	7.52
05/04/01	30.58	6.26	24.32	<50	<50.0	<0.500	<5.00	<5.00	<5.00	2.74
09/05/01	30.58	5.99	24.59	SAMPLED SEMI-ANNUALLY		--	--	--	--	--
12/21/01	30.58	5.93	24.65	200	<50	<0.50	<0.50	<0.50	<1.5	8.5
03/15/02	30.58	6.44	24.14	--	--	--	--	--	--	--
06/15/02	30.58	6.25	24.33	<50	<50	<0.50	<0.50	<0.50	<1.5	4.3
09/06/02	30.58	5.98	24.60	SAMPLED SEMI-ANNUALLY		--	--	--	--	--
12/06/02	30.58	5.79	24.79	64	<50	<0.50	<0.50	<0.50	<1.5	5.0
03/03/03	30.58	6.14	24.44	SAMPLED SEMI-ANNUALLY		--	--	--	--	--
06/17/03 <sup>14</sup>	30.58	6.47	24.11	<50	<50	<0.5	<0.5	<0.5	<0.5	13
09/16/03	30.58	6.06	24.52	SAMPLED SEMI-ANNUALLY		--	--	--	--	--
12/31/03 <sup>14</sup>	30.58	6.00	24.58	<50	<50	<0.5	<0.5	<0.5	0.5	14
03/26/04	30.58	6.69	23.89	SAMPLED SEMI-ANNUALLY		--	--	--	--	--
08/17/04	30.58	TO BE DESTROYED		--	--	--	--	--	--	--
DESTROYED - 2005										
<b>TRIP BLANK</b>										
06/04/97	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
09/16/97	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
12/17/97	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
03/18/98	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
06/28/98	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
09/07/98	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
12/09/98	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
03/11/99	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0
06/17/99	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
12/14/99	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
03/09/00 <sup>3</sup>	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Chevron Service Station #9-4800  
1700 Castro Street  
Oakland, California

WELL ID/ DATE	TOC* (fl.)	GWE (msl)	DTW (fl.)	TPH-DRO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
<b>TRIP BLANK (cont)</b>										
06/10/00	--	--	--	--	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50
09/30/00	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
12/22/00 <sup>10</sup>	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
03/01/01	--	--	--	--	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50
05/04/01	--	--	--	--	<50.0	<0.500	<5.00	<5.00	<5.00	<0.500
09/05/01	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
<b>QA</b>										
12/21/01	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
03/15/02	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
06/15/02	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
09/06/02	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
12/06/02	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
03/03/03 <sup>13</sup>	--	--	--	--	--	--	--	--	--	--
06/17/03 <sup>14</sup>	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
09/16/03 <sup>14</sup>	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
12/31/03 <sup>14</sup>	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
03/26/04 <sup>14</sup>	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
08/17/04 <sup>14</sup>	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
11/16/04 <sup>14</sup>	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
02/18/05 <sup>14</sup>	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
05/06/05 <sup>14</sup>	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
08/05/05 <sup>14</sup>	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
11/07/05 <sup>14</sup>	--	--	--	--	<50	0.6 <sup>19</sup>	<0.5	<0.5	<0.5	<0.5
02/06/06 <sup>14</sup>	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
05/08/06 <sup>14</sup>	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
08/08/06 <sup>14</sup>	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
11/08/06 <sup>14</sup>	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
02/06/07 <sup>14</sup>	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
05/01/07 <sup>14</sup>	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
07/31/07 <sup>14</sup>	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
11/08/07 <sup>14</sup>	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
02/04/08 <sup>14</sup>	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
 Chevron Service Station #9-4800  
 1700 Castro Street  
 Oakland, California

WELL ID/ DATE	TOC* (fl.)	GWE (msl)	DTW (fl.)	TPH-DRO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
QA (cont)										
05/01/08 <sup>14</sup>	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
08/01/08 <sup>14</sup>	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
11/13/08 <sup>14</sup>	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
02/23/09 <sup>14</sup>	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5



**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Chevron Service Station #9-4800  
1700 Castro Street  
Oakland, California

**EXPLANATIONS:**

Groundwater monitoring data and laboratory analytical results prior to June 10, 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

TPH = Total Petroleum Hydrocarbons

DRO = Diesel Range Organics

GRO = Gasoline Range Organics

B = Benzene

T = Toluene

E = Ethylbenzene

X = Xylenes

MTBE = Methyl Tertiary Butyl Ether

-- = Not Measured/Not Analyzed

(µg/L) = Micrograms per liter

(ppb) = Parts per billion

QA = Quality Assurance/Trip Blank

\* The following wells: MW-1, MW-2, MW-3, MW-4, and MW-7, were resurveyed by Morrow Surveying on September 13, 2004. TOC elevation was surveyed on April 11, 2001, by Virgil Chavez Land Surveying. The benchmark for the survey was the top of curb at the south end of the return at the southeast corner of Castro Street and 18th Street. (Benchmark Elevation = 29.65 feet, msl).

1 Chromatogram pattern indicates an unidentified hydrocarbon.

2 Sample was extracted outside EPA recommended holding time.

3 TPH-G, BTEX and MTBE was analyzed outside EPA recommended holding time.

4 EPA Method 8240.

5 Confirmation run.

6 Laboratory report indicates gasoline C6-C12.

7 Laboratory report indicates unidentified hydrocarbons C9-C24.

8 Laboratory report indicates unidentified hydrocarbons >C16.

9 Laboratory report indicates unidentified hydrocarbons C9-C40.

10 Laboratory report indicates this sample was analyzed outside of the EPA recommended holding time.

11 Well development performed.

12 MTBE by EPA Method 8260.

13 Due to laboratory error the trip blank sample was not analyzed.

14 BTEX and MTBE by EPA Method 8260.

15 Laboratory report indicates the surrogate data for the method blank is outside QC limits. Results from the re-extraction are within the limits. The hold time had expired prior to re-extraction so all results are reported from the original extract. The TPH-D result from the re-extraction is 910 ppb.

16 Laboratory report indicates the surrogate data for the method blank is outside QC limits. Results from the re-extraction are within the limits. The hold time had expired prior to re-extraction so all results are reported from the original extract. The TPH-D result from the re-extraction is 1,700 ppb.

17 Laboratory report indicates the surrogate data for the method blank is outside QC limits. Results from the re-extraction are within the limits. The hold time had expired prior to re-extraction so all results are reported from the original extract. Similar results were obtained in both extracts.

18 Laboratory report indicates the observed sample pattern is not typical of #2 fuel/diesel. It elutes in the DRO range later than #2 fuel.

19 Analytical result confirmed.

20 Laboratory report indicates the observed sample pattern includes #2 fuel/diesel and an additional pattern which elutes later in the DRO range.

21 Laboratory report indicates the observed sample pattern is not typical of #2 fuel/diesel. The reported result is due to individual peak(s) eluting in the DRO range.

**Table 2**  
**Groundwater Analytical Results - Oxygenate Compounds**  
Chevron Service Station #9-4800  
1700 Castro Street  
Oakland, California

WELL ID/ DATE	ETHANGL (µg/L)	TBA (µg/L)	MTBE (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
<b>MW-1</b>						
06/17/03	--	--	92	--	--	--
09/16/03	SAMPLED SEMI-ANNUALLY		--	--	--	--
12/31/03	<50	--	86	--	--	--
08/17/04	<50	--	76	--	--	--
11/16/04	<50	--	48	--	--	--
05/06/05	<50	--	220	--	--	--
11/07/05	<50	--	260	--	--	--
05/08/06	<50	--	590	--	--	--
11/08/06	<50	--	140	--	--	--
05/01/07	<50	--	280	--	--	--
11/08/07	<50	--	270	--	--	--
05/01/08	<50	--	470	--	--	--
11/13/08	<50	--	190	--	--	--
<b>MW-2</b>						
06/17/03	--	--	2,700	--	--	--
09/16/03	<130	--	1,300	--	--	--
12/31/03	<50	--	440	--	--	--
03/26/04	SAMPLED SEMI-ANNUALLY		--	--	--	--
08/17/04	<50	--	340	--	--	--
11/16/04	<100	--	1,100	--	--	--
05/06/05	<50	--	400	--	--	--
11/07/05	<50	--	66	--	--	--
05/08/06	<50	--	360	--	--	--
11/08/06	<50	--	840	--	--	--
05/01/07	<50	--	100	--	--	--
11/08/07	<50	--	37	--	--	--
05/01/08	<50	--	120	--	--	--
11/13/08	<50	--	240	--	--	--
<b>MW-3</b>						
06/17/03	--	--	590	--	--	--
09/16/03	SAMPLED SEMI-ANNUALLY		--	--	--	--
12/31/03	66	--	670	--	--	--
08/17/04	<50	--	410	--	--	--
11/16/04	<50	--	460	--	--	--

**Table 2**  
**Groundwater Analytical Results - Oxygenate Compounds**  
Chevron Service Station #9-4800  
1700 Castro Street  
Oakland, California

WELL ID/ DATE	ETHANOL (µg/L)	TBA (µg/L)	MTBE (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
<b>MW-3 (cont)</b>						
05/06/05	<100	--	740	--	--	--
11/07/05	<50	--	440	--	--	--
05/08/06	<100	--	3,300	--	--	--
11/08/06	<50	--	73	--	--	--
05/01/07	<50	--	1,200	--	--	--
11/08/07	<50	--	440	--	--	--
05/01/08	<50	--	690	--	--	--
11/13/08	<50	--	790	--	--	--
<b>MW-4</b>						
04/08/99	<25,000	<5000	5400	<100	<100	<100
06/15/02	--	840	2,400	<2	<2	110
06/17/03	--	520	1,100	<0.5	<0.5	110
09/16/03	<100	--	710	--	--	--
12/31/03	<50	--	390	--	--	--
03/26/04	SAMPLED SEMI-ANNUALLY		--	--	--	--
08/17/04	<50	66	370	<0.5	<0.5	50
11/16/04	<50	--	270	--	--	--
05/06/05	<50	21	110	<0.5	<0.5	8
11/07/05	<50	--	59	--	--	--
05/08/06	<50	--	92	--	--	--
11/08/06	<50	--	40	--	--	--
05/01/07	<50	10	76	<0.5	<0.5	6
11/08/07	<50	--	44	--	--	--
05/01/08	<50	12	67	<0.5	<0.5	4
11/13/08	<50	--	220	--	--	--
<b>MW-7</b>						
05/04/01	<500	57	470	<2.0	<2.0	11
09/05/01	<500	<100	1,300	<2	<2	32
12/21/01	<500	<100	670	<2	<2	15
03/15/02	<500	<100	350	<2	<2	8
06/15/02	--	<100	960	<2	<2	18
06/17/03	--	37	2,500	<0.5	<0.5	53
09/16/03	<500	--	4,400	--	--	--
12/31/03	<200	--	3,000	--	--	--

**Table 2**  
**Groundwater Analytical Results - Oxygenate Compounds**  
 Chevron Service Station #9-4800  
 1700 Castro Street  
 Oakland, California

WELL ID/ DATE	ETHANOL (µg/L)	TBA (µg/L)	MTBE (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
<b>MW-7 (cont)</b>						
08/17/04	<500	<50	8,000	<5	<5	140
11/16/04	<250	--	7,300	--	--	--
02/18/05	<1,000	--	5,700	--	--	--
05/06/05	<500	<50	8,400	<5	<5	140
08/05/05	<500	--	20,000 <sup>1</sup>	--	--	--
11/07/05	<1,000	--	24,000	--	--	--
02/06/06	<50	--	14,000	--	--	--
05/08/06	<200	--	6,500	--	--	--
08/08/06	<1,000	--	17,000	--	--	--
11/08/06	<500	--	41,000	--	--	--
02/06/07	<500	--	31,000	--	--	--
05/01/07	<250	<10	14,000	<3	<3	260
07/31/07	<250	--	15,000	--	--	--
11/08/07	<500	--	25,000	--	--	--
02/04/08	<100	--	17,000	--	--	--
05/01/08	<500	<20	10,000	<5	<5	170
08/01/08	<250	--	12,000	--	--	--
11/13/08	<1,000	--	16,000	--	--	--
<b>02/23/09</b>	<b>&lt;250</b>	<b>--</b>	<b>11,000</b>	<b>--</b>	<b>--</b>	<b>--</b>
<b>MW-5</b>						
04/08/99	<500	<100	<2.0	<2.0	<2.0	<2.0
06/17/03	--	--	<0.5	--	--	--
09/16/03	SAMPLED SEMI-ANNUALLY					
12/31/03	<50	--	<0.5	--	--	--
08/17/04	TO BE DESTROYED					
DESTROYED - 2005						
<b>MW-6</b>						
04/08/99	<500	<100	5.6	<2.0	<2.0	<2.0
06/17/03	--	--	13	--	--	--
09/16/03	SAMPLED SEMI-ANNUALLY					
12/31/03	<50	--	14	--	--	--
08/17/04	TO BE DESTROYED					
DESTROYED - 2005						

**Table 2**  
**Groundwater Analytical Results - Oxygenate Compounds**  
Chevron Service Station #9-4800  
1700 Castro Street  
Oakland, California

---

**EXPLANATIONS:**

Groundwater laboratory analytical results prior to May 4, 2001, were compiled from reports prepared by Blaine Tech Services, Inc.

TBA = t-Butyl alcohol

MTBE = Methyl Tertiary Butyl Ether

DIPE = di-Isopropyl ether

ETBE = Ethyl t-butyl ether

TAME = t-Amyl methyl ether

( $\mu\text{g/L}$ ) = Micrograms per liter

-- = Not Analyzed

<sup>1</sup> Laboratory report confirmed analytical result.

## 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 Chevron Environmental Management Company, the purge water and decontamination water generated during sampling activities is transported by IWM to Chemical Waste Management located in Kettleman Hills, California.



# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #9-4800  
 Site Address: 1700 Castro Street  
 City: Oakland, CA

Job Number: 386383  
 Event Date: 2/23/09 (inclusive)  
 Sampler: SR

Well ID: MW-1  
 Well Diameter: 2 in.  
 Total Depth: 30.83 ft.  
 Depth to Water: 25.94 ft.  
4.89 xVF \_\_\_\_\_ = \_\_\_\_\_ x3 case volume = Estimated Purge Volume: \_\_\_\_\_ gal.

Date Monitored: 2/23/09

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

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: \_\_\_\_\_

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

**Sampling Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Discrete Bailer \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Completed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: \_\_\_\_\_ ft  
 Depth to Water: \_\_\_\_\_ ft  
 Hydrocarbon Thickness: \_\_\_\_\_ 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): \_\_\_\_\_ Weather Conditions: \_\_\_\_\_  
 Sample Time/Date: \_\_\_\_\_ / \_\_\_\_\_ Water Color: \_\_\_\_\_ Odor: Y / N  
 Approx. Flow Rate: \_\_\_\_\_ gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal. DTW @ Sampling: \_\_\_\_\_

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-	x voa vial	YES	HCL	LANCASTER	TPH-G(8015)/BTEX+MTBE(8260)/ETHANOL (8260)
	x voa vial	YES	HCL	LANCASTER	TPH-G(8015)/BTEX+MTBE(8260)/5 OXYS+ETHANOL (8260)
	x 500ml ambers	YES	NP	LANCASTER	TPH-D (8015)

COMMENTS: M/O

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





# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #9-4800  
 Site Address: 1700 Castro Street  
 City: Oakland, CA

Job Number: 386383  
 Event Date: 2/23/09 (inclusive)  
 Sampler: SR

Well ID: MW-2  
 Well Diameter: 2 in.  
 Total Depth: 30.46 ft.  
 Depth to Water: 24.21 ft.  
6.27 xVF \_\_\_\_\_ = \_\_\_\_\_ x3 case volume = Estimated Purge Volume: \_\_\_\_\_ gal.

Date Monitored: 2/23/09

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

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: \_\_\_\_\_

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

**Sampling Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Discrete Bailer \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Completed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: \_\_\_\_\_ ft  
 Depth to Water: \_\_\_\_\_ ft  
 Hydrocarbon Thickness: \_\_\_\_\_ 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): \_\_\_\_\_ Weather Conditions: \_\_\_\_\_  
 Sample Time/Date: \_\_\_\_\_ / \_\_\_\_\_ Water Color: \_\_\_\_\_ Odor: Y / N  
 Approx. Flow Rate: \_\_\_\_\_ gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal. DTW @ Sampling: \_\_\_\_\_

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-	x voa vial	YES	HCL	LANCASTER	TPH-G(8015)/BTEX+MTBE(8260)/ETHANOL (8260)
	x voa vial	YES	HCL	LANCASTER	TPH-G(8015)/BTEX+MTBE(8260)/5 OXYS+ETHANOL (8260)
	x 500ml ambers	YES	NP	LANCASTER	TPH-D (8015)

COMMENTS: M/O

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



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #9-4800  
 Site Address: 1700 Castro Street  
 City: Oakland, CA

Job Number: 386383  
 Event Date: 2/23/09 (inclusive)  
 Sampler: SR

Well ID: MW-3  
 Well Diameter: 2 in.  
 Total Depth: 30.31 ft.  
 Depth to Water: 25.72 ft.  
4.59 xVF \_\_\_\_\_ = \_\_\_\_\_ x3 case volume = Estimated Purge Volume: \_\_\_\_\_ gal.

Date Monitored: 2/23/09

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

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: \_\_\_\_\_

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

**Sampling Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Discrete Bailer \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Completed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: \_\_\_\_\_ ft  
 Depth to Water: \_\_\_\_\_ ft  
 Hydrocarbon Thickness: \_\_\_\_\_ 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): \_\_\_\_\_ Weather Conditions: \_\_\_\_\_  
 Sample Time/Date: \_\_\_\_\_ / \_\_\_\_\_ Water Color: \_\_\_\_\_ Odor: Y / N  
 Approx. Flow Rate: \_\_\_\_\_ gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal. DTW @ Sampling: \_\_\_\_\_

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-	x voa vial	YES	HCL	LANCASTER	TPH-G(8015)/BTEX+MTBE(8260)/ETHANOL (8260)
	x voa vial	YES	HCL	LANCASTER	TPH-G(8015)/BTEX+MTBE(8260)/5 OXYS+ETHANOL (8260)
	x 500ml ambers	YES	NP	LANCASTER	TPH-D (8015)

COMMENTS: M/O

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



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #9-4800 Job Number: 386383  
 Site Address: 1700 Castro Street Event Date: 2/23/09 (inclusive)  
 City: Oakland, CA Sampler: SR

Well ID: MW-4 Date Monitored: 2/23/09  
 Well Diameter: 2 in.  
 Total Depth: 29.00 ft.  
 Depth to Water: 25.06 ft.  Check if water column is less than 0.50 ft.  
3.94 xVF \_\_\_\_\_ = \_\_\_\_\_ x3 case volume = Estimated Purge Volume: \_\_\_\_\_ 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

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: \_\_\_\_\_

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

**Sampling Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Discrete Bailer \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Completed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: \_\_\_\_\_ ft  
 Depth to Water: \_\_\_\_\_ ft  
 Hydrocarbon Thickness: \_\_\_\_\_ 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): \_\_\_\_\_ Weather Conditions: \_\_\_\_\_  
 Sample Time/Date: \_\_\_\_\_ / \_\_\_\_\_ Water Color: \_\_\_\_\_ Odor: Y / N  
 Approx. Flow Rate: \_\_\_\_\_ gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal. DTW @ Sampling: \_\_\_\_\_

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-	x vpa vial	YES	HCL	LANCASTER	TPH-G(8015)/BTEX+MTBE(8260)/ETHANOL (8260)
	x voa vial	YES	HCL	LANCASTER	TPH-G(8015)/BTEX+MTBE(8260)/5 OXYS+ETHANOL (8260)
	x 500ml ambers	YES	NP	LANCASTER	TPH-D (8015)

COMMENTS: M/O

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



# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #9-4800  
 Site Address: 1700 Castro Street  
 City: Oakland, CA

Job Number: 386383  
 Event Date: 2/23/09 (inclusive)  
 Sampler: SR

Well ID: MW-7  
 Well Diameter: 2 in.  
 Total Depth: 30.30 ft.  
 Depth to Water: 27.65 ft.  
2.65 x VF .17 = .4

Date Monitored: 2/23/09

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

Check if water column is less than 0.50 ft.  
 x3 case volume = Estimated Purge Volume: 1.5 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 28.18

**Purge Equipment:**

Disposable Bailer

Stainless Steel Bailer \_\_\_\_\_

Stack Pump \_\_\_\_\_

Suction Pump \_\_\_\_\_

Grundfos \_\_\_\_\_

Peristaltic Pump \_\_\_\_\_

QED Bladder Pump \_\_\_\_\_

Other: \_\_\_\_\_

**Sampling Equipment:**

Disposable Bailer

Pressure Bailer \_\_\_\_\_

Discrete Bailer \_\_\_\_\_

Peristaltic Pump \_\_\_\_\_

QED Bladder Pump \_\_\_\_\_

Other: \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Completed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: \_\_\_\_\_ ft  
 Depth to Water: \_\_\_\_\_ ft  
 Hydrocarbon Thickness: \_\_\_\_\_ 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): 1015 Weather Conditions: cloudy  
 Sample Time/Date: 1040 2/23/09 Water Color: cloudy Odor: Y (N)  
 Approx. Flow Rate: \_\_\_\_\_ gpm. Sediment Description: light  
 Did well de-water? N If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal. DTW @ Sampling: 27.71

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm (µS))	Temperature (C F)	D.O. (mg/L)	ORP (mV)
<u>1016</u>	<u>.5</u>	<u>8.28</u>	<u>900</u>	<u>18.4</u>		
<u>1021</u>	<u>1</u>	<u>8.02</u>	<u>935</u>	<u>18.4</u>		
<u>1025</u>	<u>1.5</u>	<u>7.94</u>	<u>948</u>	<u>18.3</u>		

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-7</u>	<u>6</u> x voa vial	YES	HCL	LANCASTER	TPH-G(8015)/BTEX+MTBE(8260)/ETHANOL (8260)
	x voa vial	YES	HCL	LANCASTER	TPH-G(8015)/BTEX+MTBE(8260)/5 OXYS+ETHANOL (8260)
	<u>2</u> x 500ml ambers	YES	NP	LANCASTER	TPH-D (8015)

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

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





# Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

## ANALYTICAL RESULTS

Prepared for:

Chevron  
6001 Bollinger Canyon Rd L4310  
San Ramon CA 94583

925-842-8582

Prepared by:

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

RECEIVED

MAR 05 2009

GETTLER-RYAN INC.  
GENERAL CONTRACTORS

## SAMPLE GROUP

The sample group for this submittal is 1133371. Samples arrived at the laboratory on Tuesday, February 24, 2009. The PO# for this group is 0015025028 and the release number is COSTA.

### Client Description

QA-T-090223 NA Water  
MW-7-W-090223 Grab Water

### Lancaster Labs Number

5606537  
5606538

ELECTRONIC COPY TO CRA c/o Gettler-Ryan

Attn: Cheryl Hansen



## **Analysis Report**

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Questions? Contact your Client Services Representative  
Jill M Parker at (717) 656-2300

Respectfully Submitted,

A handwritten signature in black ink, appearing to read "Robin C. Runkle".

**Robin C. Runkle**  
**Senior Specialist**





# Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Page 1 of 1

Lancaster Laboratories Sample No. WW5606537

Group No. 1133371

QA-T-090223 NA Water  
Facility# 94800 Job# 386383 GRD  
1700 Castro St-Oakland T0600102076 QA  
Collected: 02/23/2009

Account Number: 10904

Submitted: 02/24/2009 09:00  
Reported: 03/04/2009 at 18:47  
Discard: 04/04/2009

Chevron  
6001 Bollinger Canyon Rd L4310  
San Ramon CA 94583

### CASQA

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Dilution Factor
				Method	Detection Limit	
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.		50	ug/l 1
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

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	03/02/2009 19:55	Carrie E Youtzy	1
06054	BTEX+MTBE by 8260B	SW-846 8260B	1	03/02/2009 18:16	Ginelle L Feister	1
01146	GC VOA Water Prep	SW-846 5030B	1	03/02/2009 19:55	Carrie E Youtzy	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	03/02/2009 18:16	Ginelle L Feister	1



# Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Lancaster Laboratories Sample No. WW5606538

Group No. 1133371

MW-7-W-090223 Grab Water  
Facility# 94800 Job# 386383 GRD  
1700 Castro St-Oakland T0600102076 MW-7  
Collected:02/23/2009 10:40 by SR

Account Number: 10904

Submitted: 02/24/2009 09:00  
Reported: 03/04/2009 at 18:47  
Discard: 04/04/2009

Chevron  
6001 Bollinger Canyon Rd L4310  
San Ramon CA 94583

CASM7

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Dilution Factor
				Method	Units	
06609	TPH-DRO CA C10-C28	n.a.	100	Detection Limit	ug/l	1
01728	TPH-GRO N. CA water C6-C12	n.a.	270	50	ug/l	1
06067	BTEX, MTBE, ETOH					
01587	Ethanol	64-17-5	N.D.	250	ug/l	5
02010	Methyl Tertiary Butyl Ether	1634-04-4	11,000	100	ug/l	200
05401	Benzene	71-43-2	N.D.	3	ug/l	5
05407	Toluene	108-88-3	N.D.	3	ug/l	5
05415	Ethylbenzene	100-41-4	N.D.	3	ug/l	5
06310	Xylene (Total)	1330-20-7	N.D.	3	ug/l	5

State of California Lab Certification No. 2116

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
06609	TPH-DRO CA C10-C28	SW-846 8015B	1	02/25/2009 12:25	Diane V Do	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	03/02/2009 20:38	Carrie E Youtzy	1
06067	BTEX, MTBE, ETOH	SW-846 8260B	1	03/02/2009 15:49	Ginelle L Feister	200
06067	BTEX, MTBE, ETOH	SW-846 8260B	1	03/03/2009 11:39	Ginelle L Feister	5
01146	GC VOA Water Prep	SW-846 5030B	1	03/02/2009 20:38	Carrie E Youtzy	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	03/03/2009 11:39	Ginelle L Feister	5
01163	GC/MS VOA Water Prep	SW-846 5030B	2	03/02/2009 15:49	Ginelle L Feister	200
02376	Extraction - Fuel/TPH (Waters)	SW-846 3510C	1	02/25/2009 02:30	Sherry L Morrow	1

## Quality Control Summary

 Client Name: Chevron  
 Reported: 03/04/09 at 06:47 PM

Group Number: 1133371

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

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 090550015A TPH-DRO CA C10-C28	N.D.	32.	ug/l	70	76	63-119	9	20
Batch number: 09060B20A TPH-GRO N. CA water C6-C12	N.D.	50.	ug/l	100	100	75-135	0	30
Batch number: D090612AA Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	91		78-117		
Benzene	N.D.	0.5	ug/l	96		80-116		
Toluene	N.D.	0.5	ug/l	97		80-115		
Ethylbenzene	N.D.	0.5	ug/l	94		80-113		
Xylene (Total)	N.D.	0.5	ug/l	96		81-114		
Batch number: Z090612AA Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	105		78-117		
Batch number: Z090622AA Ethanol	N.D.	50.	ug/l	91		40-158		
Benzene	N.D.	0.5	ug/l	104		80-116		
Toluene	N.D.	0.5	ug/l	109		80-115		
Ethylbenzene	N.D.	0.5	ug/l	106		80-113		
Xylene (Total)	N.D.	0.5	ug/l	105		81-114		

### Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike  
 Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 09060B20A TPH-GRO N. CA water C6-C12									
Batch number: D090612AA Methyl Tertiary Butyl Ether	97	98	72-126	1	30				
Benzene	103	105	80-126	3	30				
Toluene	104	105	80-125	1	30				
Ethylbenzene	100	103	77-125	2	30				
Xylene (Total)	103	105	79-125	2	30				
Batch number: Z090612AA Methyl Tertiary Butyl Ether	104	103	72-126	1	30				

\*- Outside of specification

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

## Quality Control Summary

Client Name: Chevron  
Reported: 03/04/09 at 06:47 PM

Group Number: 1133371

### Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike  
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: Z090622AA	Sample number(s): 5606538			UNSPK:	P606569				
Ethanol	63	71	37-164	12	30				
Benzene	110	110	80-126	0	30				
Toluene	119	120	80-125	1	30				
Ethylbenzene	118	119	77-125	1	30				
Xylene (Total)	116	116	79-125	0	30				

### Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: TPH-DRO CA C10-C28  
Batch number: 090550015A  
Orthoterphenyl

5606538	86
Blank	81
LCS	93
LCSD	96

Limits: 59-131

Analysis Name: TPH-GRO N. CA water C6-C12  
Batch number: 09060B20A  
Trifluorotoluene-F

5606537	98
5606538	113
Blank	97
LCS	123
LCSD	121
MS	120

Limits: 63-135

Analysis Name: BTEX+MTBE by 8260B  
Batch number: D090612AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5606537	93	101	93	95
Blank	95	101	94	95
LCS	93	102	94	101
MS	98	105	96	103
MSD	96	107	95	103

Limits: 80-116                      77-113                      80-113                      78-113

Analysis Name: 8260 Master Scan (water)  
Batch number: Z090612AA

#### \*- Outside of specification

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

## Quality Control Summary

Client Name: Chevron  
Reported: 03/04/09 at 06:47 PM

Group Number: 1133371

### Surrogate Quality Control

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
Blank	98	97	107	92
LCS	96	96	106	97
MS	96	94	107	98
MSD	96	96	107	99
Limits:	80-116	77-113	80-113	78-113

Analysis Name: BTEX, MTBE, ETOH  
Batch number: Z090622AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5606538	96	94	110	96
Blank	98	94	110	95
LCS	96	95	108	102
MS	96	95	109	102
MSD	94	92	110	102
Limits:	80-116	77-113	80-113	78-113

\*- Outside of specification

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

## Lancaster Laboratories 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>Cal</b>	(diet) calories	<b>lb.</b>	pound(s)
<b>meq</b>	milliequivalents	<b>kg</b>	kilogram(s)
<b>g</b>	gram(s)	<b>mg</b>	milligram(s)
<b>ug</b>	microgram(s)	<b>l</b>	liter(s)
<b>ml</b>	milliliter(s)	<b>ul</b>	microliter(s)
<b>m3</b>	cubic meter(s)	<b>fib &gt;5 um/ml</b>	fibers greater than 5 microns in length per ml
<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>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.		

U.S. EPA data qualifiers:

### Organic Qualifiers

<b>A</b>	TIC is a possible aldol-condensation product
<b>B</b>	Analyte was also detected in the blank
<b>C</b>	Pesticide result confirmed by GC/MS
<b>D</b>	Compound quantitated on a diluted sample
<b>E</b>	Concentration exceeds the calibration range of the instrument
<b>J</b>	Estimated value
<b>N</b>	Presumptive evidence of a compound (TICs only)
<b>P</b>	Concentration difference between primary and confirmation columns >25%
<b>U</b>	Compound was not detected
<b>X,Y,Z</b>	Defined in case narrative

### Inorganic Qualifiers

<b>B</b>	Value is <CRDL, but ≥IDL
<b>E</b>	Estimated due to interference
<b>M</b>	Duplicate injection precision not met
<b>N</b>	Spike amount not within control limits
<b>S</b>	Method of standard additions (MSA) used for calculation
<b>U</b>	Compound was not detected
<b>W</b>	Post digestion spike out of control limits
<b>*</b>	Duplicate analysis not within control limits
<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.

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.

**WARRANTY AND LIMITS OF LIABILITY** – In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions of Lancaster Laboratories and we hereby object to any conflicting terms contained in any acceptance or order submitted by client.