



**Alexis Fischer**  
Project Manager  
Marketing Business Unit

**Chevron Environmental  
Management Company**  
6101 Bollinger Canyon Road  
San Ramon, CA 94583  
Tel (925) 790-6441  
AFischer@Chevron.com

May 21, 2012

**RECEIVED**

*1:59 pm, May 23, 2012*

Alameda County  
Environmental Health

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

Re: Chevron Facility # 96991  
Address: 2920 Castro Valley Boulevard, Castro Valley, California

I have reviewed the attached report titled *First Semi-Annual 2012 Groundwater Monitoring Report* and dated May 21, 2012.

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 Conestoga-Rovers & Associates, 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,

A handwritten signature in black ink, appearing to read "Alexis Fischer".

Alexis Fischer  
Project Manager

Enclosure: Report



**CONESTOGA-ROVERS  
& ASSOCIATES**

10969 Trade Center Drive  
Rancho Cordova, California 95670  
Telephone: (916) 889-8900 Fax: (916) 889-8999  
[www.CRAworld.com](http://www.CRAworld.com)

May 21, 2012

Reference No. 611633

Mr. Mark Detterman, P.G., C.E.G.  
Alameda County Environmental Health (ACEH)  
1131 Harbor Bay Parkway, Suite 250  
Alameda, California 94502-6577

Re: First Semi-Annual 2012 Groundwater Monitoring Report  
Chevron Service Station 96991  
2920 Castro Valley Boulevard  
Castro Valley, California  
Case No. RO0000475

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Dear Mr. Detterman:

Conestoga-Rovers & Associates (CRA) is submitting the attached *Groundwater Monitoring and Sampling Report* (report) on behalf of Chevron Environmental Management Company (Chevron) for the site referenced above. The report (prepared by Gettler-Ryan Inc. and dated April 10, 2012) presents the results of the sampling of wells MW-1, MW-2, MW-4, MW-6, and MW-7 during first quarter 2012. Wells MW-1 and MW-4 are sampled annually during the first quarter, and wells MW-2, MW-6, and MW-7 are sampled semi-annually during the first and third quarters. Also attached are Figure 1 (Vicinity Map) showing the site location, and Figure 2 (Concentration Map) presenting the first semi-annual 2012 analytical results along with a rose diagram.

Based on the site conditions and analytical results, the site is a good candidate for low-risk case closure and as such, no further monitoring is recommended. On July 29, 2011, CRA submitted a *Case Closure Request* and we are awaiting a response from ACEH to this document.

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Equal  
Employment Opportunity  
Employer

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**CONESTOGA-ROVERS  
& ASSOCIATES**

May 21, 2012

Reference No. 611633

- 2 -

Please contact Mr. James Kiernan at (916) 889-8917 if you have any questions or require additional information.

Sincerely,

CONESTOGA-ROVERS & ASSOCIATES



James P. Kiernan, P.E.

JK/aa/13

Encl.

Figure 1            Vicinity Map  
Figure 2            Concentration Map

Attachment A      Groundwater Monitoring and Sampling Report

cc:    Ms. Alexis Fischer, Chevron (*electronic copy*)  
       K&K Petroleum, LLC

## FIGURES



SOURCE: TOPO! MAPS.

Figure 1

VICINITY MAP  
 CHEVRON SERVICE STATION 96991  
 2920 CASTRO VALLEY BOULEVARD  
*Castro Valley, California*



**LEGEND**

- SITE MONITORING WELL LOCATION
- 1990 EXCAVATION LIMITS
- WELL**
- TPHD CONCENTRATION (µg/L)
- TPHG CONCENTRATION (µg/L)
- BENZENE CONCENTRATION (µg/L)
- MTBE CONCENTRATION (µg/L)
- NS NOT SAMPLED

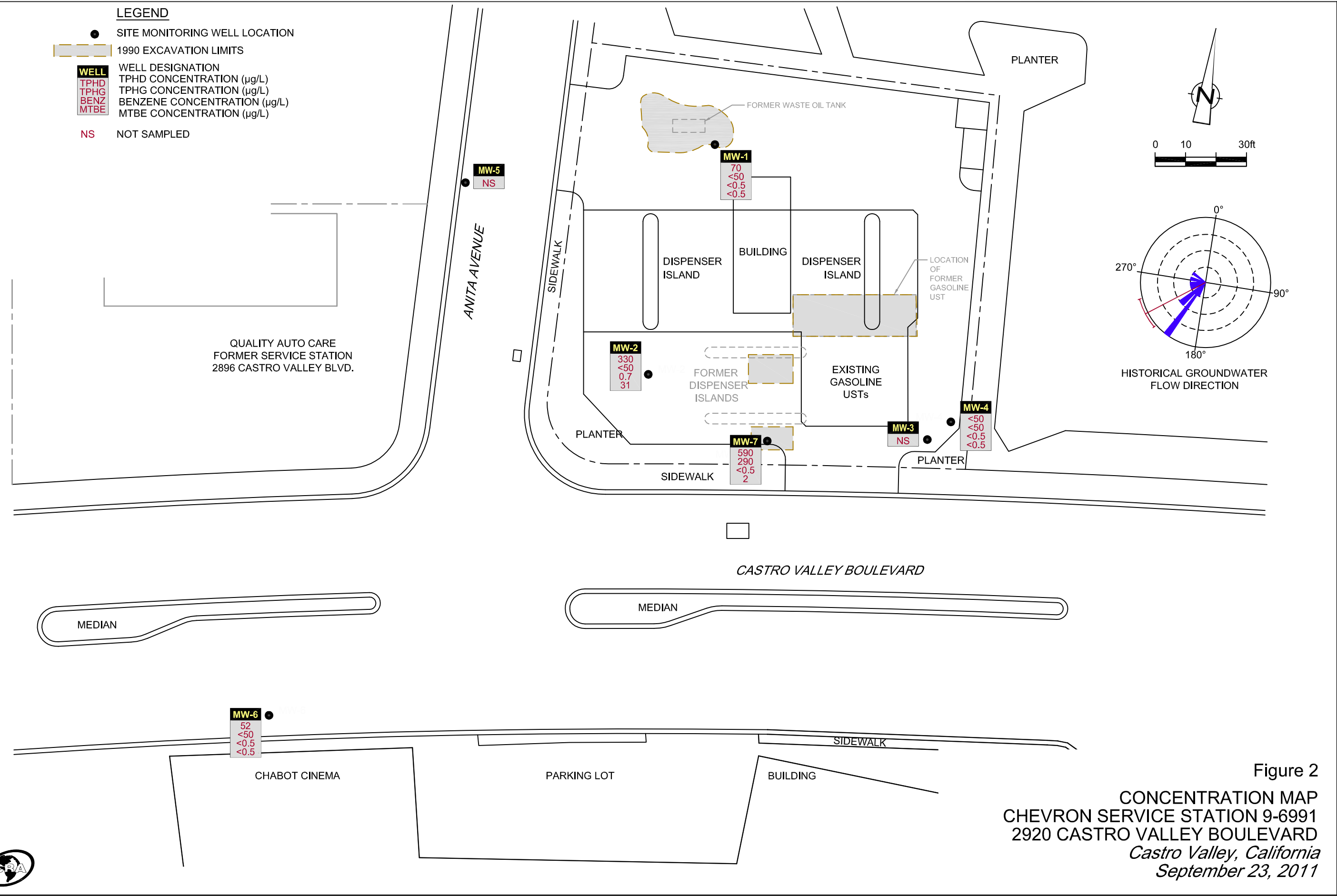


Figure 2  
 CONCENTRATION MAP  
 CHEVRON SERVICE STATION 9-6991  
 2920 CASTRO VALLEY BOULEVARD  
 Castro Valley, California  
 September 23, 2011



ATTACHMENT A

GROUNDWATER MONITORING AND SAMPLING REPORT





April 10, 2012  
G-R Job #385296

Ms. Olivia Skance  
Chevron Environmental Management Company  
6101 Bollinger Canyon Road  
San Ramon, CA 94583

**RE: First Semi-Annual Event of March 20, 2012**  
Groundwater Monitoring & Sampling Report  
Chevron Service Station #9-6991  
2920 Castro Valley Boulevard  
Castro Valley, California

Dear Ms. Skance:

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.

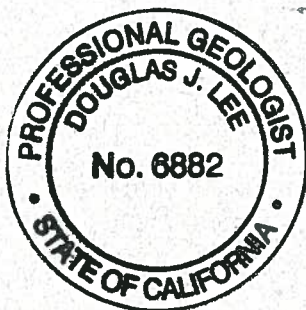
Groundwater samples were collected from the monitoring wells and submitted to a state certified laboratory for analyses. The field data sheets for this event are attached. Analytical results are presented in the table(s) listed below. The chain of custody document and the laboratory analytical reports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

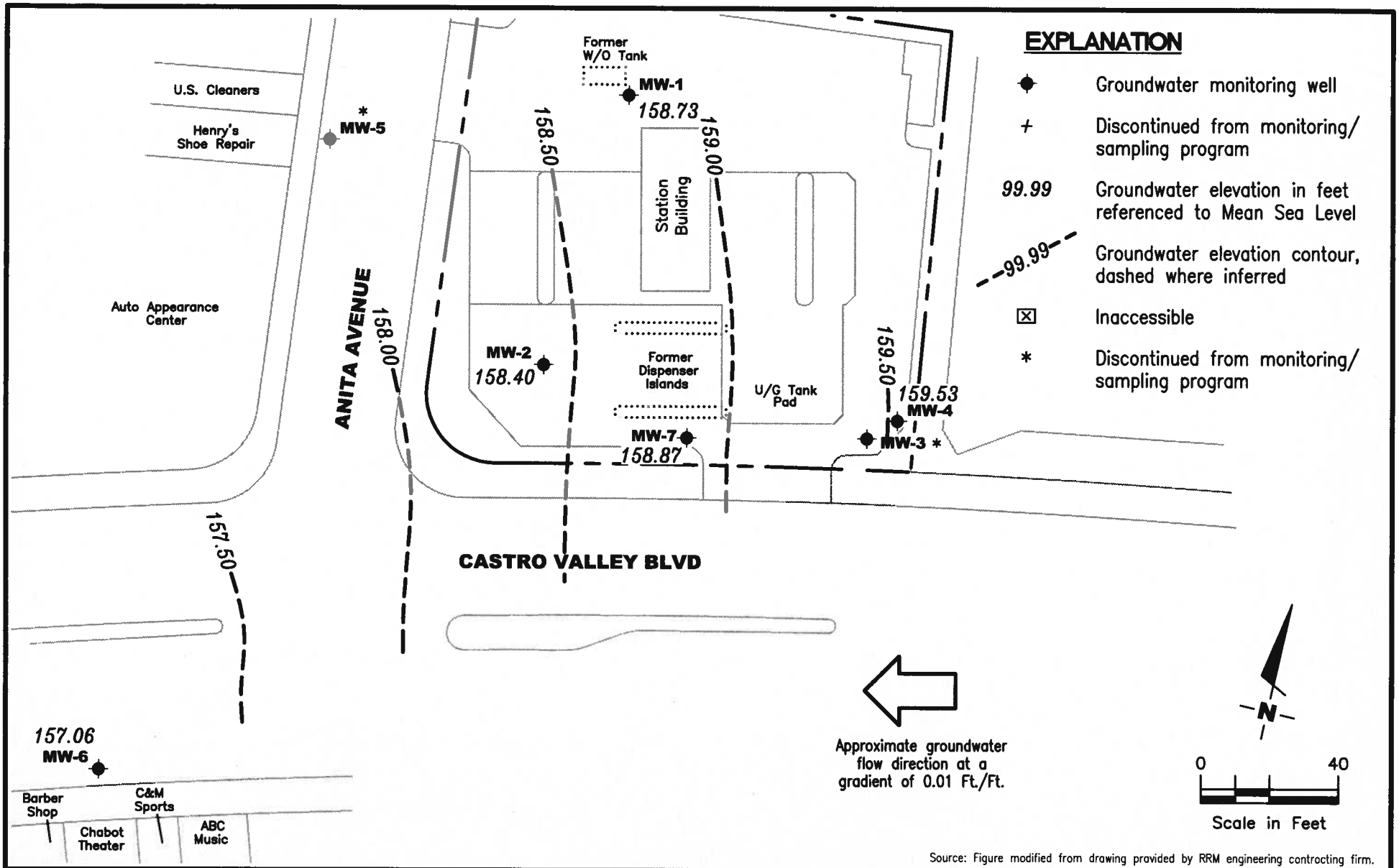
Deanna L. Harding  
Project Coordinator

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



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





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

**POTENTIOMETRIC MAP**  
 Chevron Service Station #9-6991  
 2920 Castro Valley Boulevard  
 Castro Valley, California

FIGURE  
**1**

PROJECT NUMBER  
**385296**

REVIEWED BY

DATE  
 March 20, 2012

REVISED DATE

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Chevron Service Station #9-6991  
2920 Castro Valley Boulevard  
Castro Valley, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	TPH-DRO (ug/L)	TPH-GRO (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	TOG (ug/L)	ETHANOL (ug/L)
<b>MW-1</b>												
10/08/91	169.30	158.20	11.10	--	230	45	<0.5	0.9	9.1	--	<5,000	--
11/04/91	169.30	158.27	11.03	--	340	120	<0.5	<0.5	6.1	--	--	--
12/04/91	169.30	158.25	11.05	170	<50	3.9	<0.5	<0.5	<0.5	--	<5,000	--
06/05/92	169.30	158.26	11.04	<50	100	26	0.6	0.5	1.0	--	--	--
10/27/92	169.30	158.20	11.10	54	<50	11	<0.5	<0.5	<0.5	--	--	--
12/30/92	169.30	--	--	170	<50	24	<0.5	<0.5	<0.5	--	--	--
01/27/93	169.30	158.67	10.63	--	--	--	--	--	--	--	--	--
03/05/93	169.30	--	--	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
03/17/93	169.30	158.59	10.71	--	--	--	--	--	--	--	--	--
06/18/93	169.30	158.29	11.01	<50	<50	0.6	<0.5	<0.5	<1.5	--	--	--
09/28/93	169.30	157.35	11.95	<50	<50	0.8	<0.5	<0.5	<1.5	--	--	--
12/30/93	169.30	158.34	10.96	<50	<50	8.5	<0.5	<0.5	<0.5	--	--	--
04/07/94	169.30	158.49	10.81	<10	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
05/31/94	169.30	158.38	10.92	<50	<50	1.0	<0.5	<0.5	<0.5	--	--	--
09/23/94	169.30	158.40	10.90	<50	<50	1.3	<0.5	<0.5	<0.5	--	--	--
11/30/94	169.30	158.76	10.54	570 <sup>2</sup>	<50	8.9	<0.5	<0.5	<0.5	--	--	--
03/30/95	169.30	158.60	10.70	110 <sup>1</sup>	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
06/06/95	169.30	158.38	10.92	570 <sup>1</sup>	61	15	<0.5	<0.5	<0.5	--	--	--
09/25/95	169.30	158.30	11.00	550 <sup>1</sup>	<50	4.7	<0.5	<0.5	<0.5	--	--	--
12/28/95	169.30	158.50	10.80	330 <sup>1</sup>	72	9.1	0.65	<0.5	<0.5	6.0	--	--
03/05/96	169.30	159.20	10.10	780 <sup>1</sup>	<50	7.8	<0.5	<0.5	<0.5	<2.5	--	--
09/13/96	169.30	158.28	11.02	SAMPLED ANNUALLY		--	--	--	--	--	--	--
12/19/96	169.30	158.08	11.22	--	--	--	--	--	--	--	--	--
03/20/97	169.30	158.40	10.90	350 <sup>1</sup>	<50	2.2	<0.5	<0.5	<0.5	<2.5	--	--
06/27/97	169.30	158.27	11.03	--	--	--	--	--	--	--	--	--
09/19/97	169.30	158.34	10.96	--	--	--	--	--	--	--	--	--
12/05/97	169.30	158.62	10.68	--	--	--	--	--	--	--	--	--
03/31/98	169.30	158.67	10.63	760 <sup>1</sup>	<50	6.7	<0.5	<0.5	<0.5	<2.5	--	--
06/19/98	169.30	159.62	9.68	--	--	--	--	--	--	--	--	--
08/13/98	169.30	157.67	11.63	--	--	--	--	--	--	--	--	--
12/17/98	169.30	158.25	11.05	--	--	--	--	--	--	--	--	--
03/19/99	169.30	158.35	10.95	890 <sup>1</sup>	124	14.8	<0.5	<0.5	<0.5	6.49/<2.5 <sup>13</sup>	--	--
06/23/99	169.30	158.23	11.07	--	--	--	--	--	--	--	--	--
09/16/99	169.30	158.41	10.89	--	--	--	--	--	--	--	--	--
12/16/99	169.30	158.46	10.84	--	--	--	--	--	--	--	--	--

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Chevron Service Station #9-6991  
2920 Castro Valley Boulevard  
Castro Valley, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	TPH-DRO (ug/L)	TPH-GRO (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	TOG (ug/L)	ETHANOL (ug/L)	
<b>MW-1 (cont)</b>													
03/02/00	169.30	158.83	10.47	2,300 <sup>1</sup>	155	10.4	<0.5	<0.5	<0.5	10.3	--	--	
06/30/00	169.30	159.04	10.26	--	--	--	--	--	--	--	--	--	
09/30/00	NP	169.30	158.30	11.00	--	--	--	--	--	--	--	--	
12/19/00		169.30	158.44	10.86	--	--	--	--	--	--	--	--	
03/13/01	NP	169.30	158.45	10.85	-- <sup>14</sup>	50.4	4.50	0.553	0.522	2.10	1.65	--	
06/12/01		169.30	158.28	11.02	SAMPLED ANNUALLY		--	--	--	--	--	--	
09/18/01		169.30	158.23	11.07	SAMPLED ANNUALLY		--	--	--	--	--	--	
12/17/01		169.30	158.59	10.71	SAMPLED ANNUALLY		--	--	--	--	--	--	
03/21/02		169.30	158.54	10.76	-- <sup>14</sup>	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--	
06/08/02		169.30	158.33	10.97	SAMPLED ANNUALLY		--	--	--	--	--	--	
09/13/02		169.30	158.28	11.02	SAMPLED ANNUALLY		--	--	--	--	--	--	
12/13/02		169.30	158.47	10.83	SAMPLED ANNUALLY		--	--	--	--	--	--	
03/17/03		169.30	158.60	10.70	250	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--	
06/16/03		169.30	158.34	10.96	SAMPLED ANNUALLY		--	--	--	--	--	--	
09/15/03		169.30	158.28	11.02	SAMPLED ANNUALLY		--	--	--	--	--	--	
12/15/03		169.30	158.71	10.59	SAMPLED ANNUALLY		--	--	--	--	--	--	
03/01/04		169.30	158.78	10.52	NOT SAMPLED DUE TO INSUFFICIENT WATER							--	--
06/28/04		169.30	158.27	11.03	SAMPLED ANNUALLY		--	--	--	--	--	--	
09/13/04		169.30	156.96	12.34	SAMPLED ANNUALLY		--	--	--	--	--	--	
12/22/04		169.30	158.38	10.92	SAMPLED ANNUALLY		--	--	--	--	--	--	
03/04/05		169.30	158.81	10.49	NOT SAMPLED DUE TO INSUFFICIENT WATER							--	--
06/30/05		169.30	158.54	10.76	SAMPLED ANNUALLY		--	--	--	--	--	--	
09/16/05		169.30	158.33	10.97	SAMPLED ANNUALLY		--	--	--	--	--	--	
12/21/05		169.30	158.70	10.60	--	--	--	--	--	--	--	--	
03/21/06 <sup>16</sup>		169.30	158.93	10.37	1,100	<50	0.6	<0.5	<0.5	<0.5	1	<50	
06/21/06		169.30	158.37	10.93	SAMPLED ANNUALLY		--	--	--	--	--	--	
09/05/06		169.30	158.32	10.98	SAMPLED ANNUALLY		--	--	--	--	--	--	
12/28/06		169.30	157.52	11.78	SAMPLED ANNUALLY		--	--	--	--	--	--	
03/26/07 <sup>16</sup>		169.30	158.39	10.91	730	<50	0.6	<0.5	<0.5	<0.5	<0.5	<50	
06/26/07		169.30	158.30	11.00	SAMPLED ANNUALLY		--	--	--	--	--	--	
09/26/07		169.30	158.26	11.04	SAMPLED ANNUALLY		--	--	--	--	--	--	
12/20/07		169.30	158.66	10.64	SAMPLED ANNUALLY		--	--	--	--	--	--	
02/29/08 <sup>16</sup>	PER	169.30	158.57	10.73	64	87	4	<0.5	<0.5	<0.5	1	<50	
05/09/08		169.30	158.38	10.92	SAMPLED ANNUALLY		--	--	--	--	--	--	
09/19/08		169.30	158.28	11.02	SAMPLED ANNUALLY		--	--	--	--	--	--	

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Chevron Service Station #9-6991  
2920 Castro Valley Boulevard  
Castro Valley, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	TPH-DRO (ug/L)	TPH-GRO (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	TOG (ug/L)	ETHANOL (ug/L)			
<b>MW-1 (cont)</b>															
12/04/08	169.30	158.28	11.02	SAMPLED ANNUALLY									--	--	
03/05/09 <sup>16</sup>	PER-NP <sup>23</sup>	169.30	159.10	10.20	77	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	<50		
06/23/09		169.30	158.36	10.94	SAMPLED ANNUALLY									--	--
09/01/09		169.30	158.26	11.04	SAMPLED ANNUALLY									--	--
03/16/10 <sup>16</sup>	PER	169.30	158.75	10.55	1,200	70	3	<0.5	<0.5	<0.5	1	--	--		
09/21/10		169.30	158.20	11.10	SAMPLED ANNUALLY									--	--
03/23/11 <sup>16</sup>	PER	169.30	159.02	10.28	180	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--		
09/23/11		169.30	158.28	11.02	SAMPLED ANNUALLY									--	--
03/20/12 <sup>16</sup>	PER	169.30	158.73	10.57	70	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--		
<b>MW-2</b>															
10/08/91		169.15	157.20	11.95	--	110	5.1	1.1	0.8	26	--	--	--		
11/19/91		169.15	157.40	11.75	--	120	11	1.1	<0.5	17	--	--	--		
12/04/91		169.15	157.35	11.80	130	440	30	2.5	<0.5	52	--	--	--		
06/05/92		169.15	157.35	11.80	130	80	13	<0.5	<0.5	1.0	--	--	--		
10/27/92		169.15	157.15	12.00	110	54	13	<0.5	<0.5	<0.5	--	--	--		
12/30/92		169.15	--	--	92	180	30	<0.5	<0.5	1.0	--	--	--		
01/27/93		169.15	158.24	10.91	--	--	--	--	--	--	--	--	--		
03/05/93		169.15	--	--	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--	--		
03/17/93		169.15	158.26	10.89	--	--	--	--	--	--	--	--	--		
06/18/93		169.15	157.41	11.74	<50	<50	1.4	<0.5	<0.5	<1.5	--	--	--		
09/28/93		169.15	157.97	11.18	<50	<50	0.6	<0.5	<0.5	<1.5	--	--	--		
12/30/93		169.15	158.34	21.00	<50	<50	0.9	<0.5	<0.5	<0.5	--	--	--		
04/07/94		169.15	158.40	10.75	<10	<50	<0.5	<0.5	<0.5	<0.5	--	--	--		
05/31/94		169.15	158.35	10.80	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--	--		
09/23/94		169.15	157.50	11.65	120	<50	0.7	<0.5	<0.5	<0.5	--	--	--		
11/30/94		169.15	158.41	10.74	570 <sup>4</sup>	55	2.9	<0.5	1.4	0.94	--	--	--		
03/30/95		169.15	158.25	10.90	430 <sup>1</sup>	91	4.5	<0.5	3.8	<0.5	--	--	--		
06/06/95		169.15	157.73	11.42	410 <sup>1</sup>	<50	<0.5	<0.5	<0.5	<0.5	--	--	--		
09/25/95		169.15	157.52	11.63	220 <sup>1</sup>	<50	<0.5	<0.5	<0.5	<0.5	--	--	--		
12/28/95		169.15	157.98	11.17	120 <sup>1</sup>	<2,000	<20	<20	<20	<20	5,000	--	--		
03/05/96		169.15	159.09	10.06	860 <sup>1</sup>	<2,000	<20	<20	<20	<20	10,000	--	--		
09/13/96		169.15	157.37	11.78	1,300	1,100	25	<10	<10	<10	20,000	--	--		
12/19/96		169.15	158.30	10.85	SAMPLED SEMI-ANNUALLY									--	--

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Chevron Service Station #9-6991  
2920 Castro Valley Boulevard  
Castro Valley, California

WELL ID/ DATE	TOC (fl)	GWE (msl)	DTW (fl)	TPH-DRO (ug/L)	TPH-GRO (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	TOG (ug/L)	ETHANOL (ug/L)
<b>MW-2 (cont)</b>												
03/20/97	169.15	157.75	11.40	190 <sup>1</sup>	2400	<10	<10	46	<10	6,200	--	--
06/27/97	169.15	157.35	11.80	--	--	--	--	--	--	--	--	--
09/19/97	169.15	157.43	11.72	60 <sup>1</sup>	<50	<0.5	<0.5	<0.5	<0.5	280	--	--
12/08/97	169.15	158.27	10.88	--	--	--	--	--	--	--	--	--
03/31/98	169.15	158.46	10.69	220 <sup>1</sup>	110	30	0.74	0.74	0.59	1,000	--	--
06/19/98	169.15	159.31	9.84	--	--	--	--	--	--	--	--	--
08/31/98	169.15	157.43	11.72	380 <sup>1</sup>	<100	3.4	<1.0	<1.0	<1.0	980	--	--
12/17/98	169.15	157.60	11.55	--	--	--	--	--	--	480	--	--
03/19/99	169.15	158.63	10.52	107 <sup>4</sup>	<250	12.7	<2.5	<2.5	<2.5	1,040/819 <sup>13</sup>	--	--
06/23/99	169.15	159.61	9.54	--	--	--	--	--	--	--	--	--
09/16/99	169.15	157.54	11.61	84.9	<100	<1.0	<1.0	<1.0	<1.0	216	--	--
12/16/99	169.15	157.86	11.29	--	--	--	--	--	--	--	--	--
03/02/00	169.15	158.70	10.45	<50	84.8	21.5	<0.5	<0.5	0.636	413	--	--
06/30/00	169.15	159.08	10.07	--	--	--	--	--	--	--	--	--
09/30/00	NP	169.15	157.54	11.61	100 <sup>11</sup>	<50	<0.50	0.57	<0.50	1.0	2,800	--
12/19/00		169.15	158.04	11.11	--	--	--	--	--	--	--	--
03/13/01	NP	169.15	158.22	10.93	-- <sup>14</sup>	179	11.6	2.01	0.856	3.66	1,290	--
06/12/01		169.15	157.52	11.63	--	--	--	--	--	--	--	--
09/18/01	NP	169.15	157.37	11.78	100	<50	<0.50	<0.50	<0.50	<1.5	670	--
12/17/01		169.15	158.29	10.86	SAMPLED SEMI-ANNUALLY			--	--	--	--	--
09/13/02		169.15	157.50	11.65	200	<50	<0.50	<0.50	<0.50	<1.5	260	--
12/13/02		169.15	158.07	11.08	SAMPLED SEMI-ANNUALLY			--	--	--	--	--
03/17/03		169.15	158.38	10.77	NOT SAMPLED DUE TO INSUFFICIENT WATER			--	--	--	--	--
06/16/03		169.15	157.77	11.38	SAMPLED SEMI-ANNUALLY			--	--	--	--	--
09/15/03 <sup>16,17</sup>		169.15	157.55	11.60	110	<50	<0.5	<0.5	<0.5	0.6	400	--
12/15/03		169.15	158.40	10.75	SAMPLED SEMI-ANNUALLY			--	--	--	--	--
03/01/04		169.15	158.49	10.66	NOT SAMPLED DUE TO INSUFFICIENT WATER			--	--	--	--	--
06/28/04		169.15	157.63	11.52	SAMPLED SEMI-ANNUALLY			--	--	--	--	--
09/13/04		169.15	156.27	12.88	NOT SAMPLED DUE TO INSUFFICIENT WATER			--	--	--	--	--
12/22/04		169.15	157.93	11.22	SAMPLED SEMI-ANNUALLY			--	--	--	--	--
03/04/05		169.15	158.58	10.57	NOT SAMPLED DUE TO INSUFFICIENT WATER			--	--	--	--	--
06/30/05		169.15	158.08	11.07	SAMPLED SEMI-ANNUALLY			--	--	--	--	--
09/16/05 <sup>16</sup>	NP	169.15	156.64	12.51	130	<50	<0.5	<0.5	<0.5	<0.5	140	--
12/21/05		169.15	158.41	10.74	SAMPLED SEMI-ANNUALLY			--	--	--	--	--
03/21/06 <sup>16</sup>		169.15	158.74	10.41	72	<50	<0.5	<0.5	<0.5	<0.5	530	<50



**Table 1**  
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Chevron Service Station #9-6991  
2920 Castro Valley Boulevard  
Castro Valley, California

WELL ID/ DATE	TOC (fl)	GWE (msl)	DTW (fl)	TPH-DRO (ug/L)	TPH-GRO (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	TOG (ug/L)	ETHANOL (ug/L)
<b>MW-2 (cont)</b>												
06/21/06	169.15	157.64	11.51	SAMPLED SEMI-ANNUALLY			--	--	--	--	--	--
09/05/06 <sup>16</sup>	169.15	157.51	11.64	620	<50	<0.5	<0.5	<0.5	<0.5	150	--	<50
12/28/06	169.15	158.19	10.96	SAMPLED SEMI-ANNUALLY			--	--	--	--	--	--
03/26/07 <sup>16</sup>	169.15	157.74	11.41	86	<50	<0.5	<0.5	<0.5	<0.5	160	--	<50
06/26/07	169.15	157.60	11.55	SAMPLED SEMI-ANNUALLY			--	--	--	--	--	--
09/26/07 <sup>16</sup>	169.15	157.52	11.63	140	<50	<0.5	<0.5	<0.5	<0.5	69	--	<50
12/20/07	169.15	158.50	10.65	SAMPLED SEMI-ANNUALLY			--	--	--	--	--	--
02/29/08 <sup>16</sup>	PER	169.15	158.18	73	<50	<0.5	<0.5	<0.5	<0.5	54	--	<50
05/09/08		169.15	157.74	11.41	SAMPLED SEMI-ANNUALLY			--	--	--	--	--
09/19/08	PER	169.15	157.48	11.67	120	<50	<0.5	<0.5	<0.5	12	--	<50
12/04/08		169.15	157.67	11.48	SAMPLED SEMI-ANNUALLY			--	--	--	--	--
03/05/09 <sup>16</sup>	PER-NP <sup>23</sup>	169.15	158.65	10.50	<50	<50	<0.5	<0.5	<0.5	55	--	<50
06/23/09		169.15	157.65	11.50	SAMPLED SEMI-ANNUALLY			--	--	--	--	--
09/01/09 <sup>16</sup>	PER	169.15	157.55	11.60	75	<50	<0.5	<0.5	<0.5	10	--	--
03/16/10 <sup>16</sup>	PER	169.15	158.50	10.65	120 <sup>24</sup>	<50	<0.5	<0.5	<0.5	23	--	--
09/21/10 <sup>16</sup>	PER	169.15	157.67	11.48	84	<50	1	<0.5	<0.5	32	--	--
03/23/11 <sup>16</sup>	PER	169.15	158.97	10.18	570	<50	<0.5	<0.5	<0.5	91	--	--
09/23/11 <sup>16</sup>	PER	169.15	157.70	11.45	130	<50	<0.5	<0.5	<0.5	50	--	--
03/20/12 <sup>16</sup>	PER	169.15	158.40	10.75	330	<50	0.7	<0.5	<0.5	31	--	--
<b>MW-4</b>												
10/27/92	169.18	157.79	11.39	<50	<50	<0.5	0.6	0.5	4.3	--	--	--
12/30/92	169.18	159.05	10.13	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
01/27/93	169.18	160.09	9.09	--	--	--	--	--	--	--	--	--
03/05/93	169.18	--	--	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
03/17/93	169.18	159.28	9.90	--	--	--	--	--	--	--	--	--
06/18/93	169.18	158.50	10.68	<50	<50	<0.5	<0.5	<0.5	<1.5	--	--	--
09/28/93	169.18	159.82	9.36	<50	<50	<0.5	<0.5	<0.5	<1.5	--	--	--
12/30/93	169.18	159.91	9.27	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
04/07/94	169.18	160.37	8.81	<10	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
05/31/94	169.18	160.27	8.91	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
09/23/94	169.18	158.79	10.39	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
11/30/94	169.18	160.08	9.10	58 <sup>2</sup>	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
03/30/95	169.18	160.66	8.52	61 <sup>1</sup>	<50	<0.5	<0.5	<0.5	<0.5	--	--	--

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Chevron Service Station #9-6991  
2920 Castro Valley Boulevard  
Castro Valley, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	TPH-DRO (ug/L)	TPH-GRO (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	TOG (ug/L)	ETHANOL (ug/L)
<b>MW-4 (cont)</b>												
06/06/95	169.18	158.70	10.48	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
09/25/95	169.18	158.38	10.80	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
12/28/95	169.18	159.23	9.95	<50	<50	<0.5	<0.5	<0.5	<0.5	9.9	--	--
12/21/05 <sup>16</sup>	169.18	159.65	9.53	76 <sup>18</sup>	<50	<0.5	<0.5	<0.5	<0.5	0.7	--	<50
03/21/06 <sup>16</sup>	169.18	160.35	8.83	<50	<50	<0.5	<0.5	<0.5	<0.5	0.5	--	<50
06/21/06 <sup>16</sup>	169.18	158.55	10.63	<50	<50	<0.5	<0.5	<0.5	<0.5	0.8	--	<50
09/05/06 <sup>16</sup>	169.18	158.24	10.94	170	<50	<0.5	<0.5	<0.5	<0.5	1	--	<50
12/28/06 <sup>16</sup>	169.18	159.06	10.12	120	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	<50
03/26/07 <sup>16</sup>	169.18	158.73	10.45	290	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	<50
06/26/07 <sup>16</sup>	169.18	158.22	10.96	<50	<50	<0.5	<0.5	<0.5	<0.5	1	--	<50
09/26/07 <sup>16</sup>	169.18	157.98	11.20	<50	<50	<0.5	<0.5	<0.5	<0.5	0.8	--	<50
12/20/07 <sup>16</sup>	169.18	159.01	10.17	62	<50	<0.5	<0.5	<0.5	<0.5	0.5	--	<50
02/29/08 <sup>16</sup>	169.18	159.32	9.86	180	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	<50
05/09/08 <sup>16</sup>	169.18	158.41	10.77	80	<50	<0.5	<0.5	<0.5	<0.5	0.6	--	<50
09/19/08 <sup>16</sup>	169.18	157.97	11.21	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	<50
12/04/08 <sup>16</sup>	169.18	158.20	10.98	58	<50	<0.5	<0.5	<0.5	<0.5	0.8	--	<50
03/05/09 <sup>16</sup>	169.18	159.36	9.82	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	<50
06/23/09	169.18	158.45	10.73	SAMPLED ANNUALLY		--	--	--	--	--	--	--
09/01/09	169.18	158.10	11.08	SAMPLED ANNUALLY		--	--	--	--	--	--	--
03/16/10 <sup>16</sup>	169.18	159.81	9.37	60 <sup>25</sup>	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
09/21/10	169.18	158.06	11.12	SAMPLED ANNUALLY		--	--	--	--	--	--	--
03/23/11 <sup>16</sup>	169.18	160.39	8.79	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
09/23/11	169.18	158.32	10.86	SAMPLED ANNUALLY		--	--	--	--	--	--	--
03/20/12 <sup>16</sup>	169.18	159.53	9.65	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
<b>MW-6</b>												
10/27/92	166.46	153.92	12.54	<50	600	22	22	24	130	--	--	--
12/30/92	166.46	156.26	10.20	470	1,700	170	16	46	160	--	--	--
01/27/93	166.46	156.44	10.02	--	--	--	--	--	--	--	--	--
03/05/93	166.46	--	--	150	480	76	0.9	3.1	7.1	--	--	--
03/17/93	166.46	155.79	10.67	--	--	--	--	--	--	--	--	--
06/18/93	166.46	154.63	11.83	51	240	37	3.4	2.9	18	--	--	--
09/28/93	166.46	154.90	11.56	120	150	11	1.2	1.3	4.3	--	--	--
12/30/93	166.46	154.81	11.65	290	680	77	5.1	5.5	13	--	--	--

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WELL ID/ DATE	TOC (fl.)	GWE (msl)	DTW (fl.)	TPH-DRO (ug/L)	TPH-GRO (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	TOG (ug/L)	ETHANOL (ug/L)	
<b>MW-6 (cont)</b>													
04/07/94	166.46	155.34	11.12	<10	190	24	2.9	1.9	8.0	--	--	--	
05/31/94	166.46	--	--	--	--	--	--	--	--	--	--	--	
09/23/94	166.46	155.05	11.41	--	--	--	--	--	--	--	--	--	
11/30/94	166.46	156.58	9.88	150 <sup>2</sup>	320	49	0.58	1.4	1.2	--	--	--	
12/15/03 <sup>16</sup>	166.46	156.60	9.86	71	210	0.5	0.9	0.7	2	14	--	<50	
03/01/04 <sup>16,21</sup>	166.46	157.16	9.30	<250	150	<0.5	4	3	18	10	--	<50	
06/28/04 <sup>16,21</sup>	166.46	155.13	11.33	66	100	<0.5	<0.5	<0.5	<0.5	18	--	--	
09/13/04 <sup>16,21</sup>	166.46	154.88	11.58	<50	<50	<0.5	<0.5	<0.5	<0.5	17	--	<50	
12/22/04 <sup>16,21</sup>	166.46	155.75	10.71	300	440	1	1	2	3	10	--	<50	
03/04/05 <sup>16,21</sup>	166.46	157.25	9.21	75	65	<0.5	<0.5	<0.5	1	8	--	<50	
06/30/05 <sup>16,21</sup>	166.46	155.49	10.97	73	<50	<0.5	<0.5	<0.5	<0.5	7	--	<50	
09/16/05 <sup>16,21</sup>	166.46	155.02	11.44	58 <sup>17</sup>	<50	<0.5	<0.5	<0.5	<0.5	13	--	<50	
12/21/05 <sup>16,21</sup>	166.46	156.66	9.80	120 <sup>19</sup>	140	<0.5	<0.5	<0.5	1	8	--	<50	
03/21/06 <sup>16,21</sup>	166.46	157.54	8.92	75	52	<0.5	<0.5	0.9	3	8	--	<50	
06/21/06 <sup>16,21</sup>	166.46	155.38	11.08	56	92	<0.5	<0.5	0.5	2	10	--	<50	
09/05/06 <sup>16,21</sup>	166.46	155.07	11.39	67	62	<0.5	<0.5	<0.5	<0.5	9	--	<50	
12/28/06 <sup>16,21</sup>	166.46	156.32	10.14	300	260	<0.5	0.5	<0.5	1	3	--	<50	
03/26/07 <sup>21</sup>	166.46	INACCESSIBLE - VEHICLE PARKED OVER WELL					--	--	--	--	--	--	--
06/26/07 <sup>16</sup>	166.46	155.32	11.14	67	<50	<0.5	<0.5	<0.5	<0.5	8	--	<50	
09/26/07 <sup>16</sup>	166.46	155.02	11.44	84	180	<0.5	0.5	3	5	6	--	--	
12/20/07 <sup>16</sup>	166.46	156.41	10.05	220	530	<0.5	0.7	1	7	2	--	-- <sup>22</sup>	
02/29/08 <sup>16</sup>	166.46	156.49	9.97	110	110	<0.5	<0.5	1	4	4	--	<50	
05/09/08 <sup>16</sup>	166.46	155.19	11.27	100	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	<50	
09/19/08 <sup>16</sup>	166.46	154.85	11.61	<50	<50	<0.5	<0.5	<0.5	<0.5	5	--	<50	
12/04/08 <sup>16</sup>	166.46	155.08	11.38	<50	<50	<0.5	<0.5	<0.5	<0.5	5	--	<50	
03/05/09 <sup>16</sup>	166.46	157.57	8.89	140	160	<0.5	<0.5	1	7	2	--	<50	
06/23/09	166.46	155.14	11.32	SAMPLED SEMI-ANNUALLY			--	--	--	--	--	--	
09/01/09 <sup>16</sup>	166.46	154.82	11.64	52	<50	<0.5	<0.5	<0.5	<0.5	5	--	--	
03/16/10 <sup>16</sup>	166.46	156.78	9.68	76 <sup>25</sup>	100	<0.5	<0.5	0.7	7	0.7	--	--	
09/21/10 <sup>16</sup>	166.46	154.98	11.48	51	<50	<0.5	<0.5	<0.5	<0.5	3	--	--	
03/23/11	166.46	INACCESSIBLE - VEHICLE PARKED OVER WELL					--	--	--	--	--	--	--
09/23/11 <sup>16</sup>	166.46	155.41	11.05	150	340	<0.5	<0.5	0.9	3	1	--	--	
03/20/12 <sup>16</sup>	166.46	157.06	9.40	52	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	

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2920 Castro Valley Boulevard  
Castro Valley, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	TPH-DRO (ug/L)	TPH-GRO (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	TOG (ug/L)	ETHANOL (ug/L)
MW-7												
09/25/95	168.80	157.20	11.60	1,400 <sup>1</sup>	220	0.79	<0.5	0.67	<0.5	--	--	--
12/28/95	168.80	158.14	10.66	590 <sup>1</sup>	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
03/05/96	168.80	159.74	9.06	320 <sup>1</sup>	1,400	<10	<10	47	<10	5,300	--	--
06/27/96	168.80	157.27	11.53	630 <sup>1</sup>	<2,500	<25	<25	<25	<25	14,000	--	--
09/13/96	168.80	156.88	11.92	1,400	1,100	26	<10	24	<10	20,000	--	--
12/19/96	168.80	158.29	10.51	1,100 <sup>3</sup>	<5,000	<50	<50	<50	<50	12,000	--	--
03/20/97	168.80	157.84	10.96	1,600 <sup>3</sup>	<1,000	<10	<10	<10	<10	2,100/2,000 <sup>13</sup>	--	--
06/27/97	168.80	157.02	11.78	1,600 <sup>1</sup>	2,000	<20	<20	<20	<20	11,000	--	--
09/19/97	168.80	156.87	11.93	1,900 <sup>1</sup>	<1,000	35	<10	<10	<10	13,000	--	--
12/05/97	168.80	158.40	10.40	1,100 <sup>1</sup>	2,100	47	2.7	28	<2.5	15,000	--	--
03/31/98	168.80	158.89	9.91	780 <sup>1</sup>	410	4.0	0.61	2.2	<0.5	<2.5	--	--
06/19/98	168.80	159.09	9.71	480 <sup>1</sup>	1,100	16	<10	17	<10	12,000	--	--
08/31/98	168.80	157.11	11.69	580 <sup>1</sup>	<500	350	22	<5.0	<5.0	47,000	--	--
12/17/98	168.80	157.70	11.10	970	1,800	<10	<10	24	<10	13,000/14,000 <sup>13</sup>	--	--
03/19/99	168.80	158.51	10.29	615 <sup>1</sup>	1,280	<5.0	5.0	16.3	<5.0	2,240/2,910 <sup>13</sup>	--	--
06/23/99	168.80	157.25	11.55	1,240 <sup>1</sup>	<5,000	<50	<50	<50	<50	18,000	--	--
09/16/99	168.80	157.31	11.49	2,230	<5,000	<50	<50	<50	<50	13,700	--	--
12/16/99	168.80	158.27	10.53	973 <sup>1</sup>	1,330	<1.0	6.44	14	5.17	10,800	--	--
03/02/00	168.80	159.25	9.55	880 <sup>1</sup>	1,980	7.22	<5.0	6.11	<5.0	4,230	--	--
06/30/00	168.80	157.68	11.12	620 <sup>7</sup>	2,500 <sup>6</sup>	6.0	8.5	16	72	6,900	--	--
09/30/00	NP	157.23	11.57	1,600 <sup>7</sup>	1,700 <sup>10</sup>	750	<5.0	<5.0	<5.0	7,300	--	--
12/19/00	168.80	158.26	10.54	1,100 <sup>12</sup>	1,800 <sup>10</sup>	<10	<10	<10	<10	4,900	--	--
03/13/01	168.80	158.74	10.06	1,500 <sup>12</sup>	1,470	9.34	5.09	6.08	2.69	2,920	--	--
06/12/01	168.80	157.45	11.35	910 <sup>15</sup>	920 <sup>10</sup>	260	4.2	9.7	2.8	4,500	--	--
09/18/01	168.80	156.87	11.93	3,000	2,000	<0.50	<0.50	<0.50	<1.5	5,300	--	--
12/17/01	168.80	157.99	10.81	7,000	1,700	<5.0	<0.50	7.1	<1.5	4,100	--	--
03/21/02	168.80	158.56	10.24	13,000	3,200	<5.0	<0.50	24	<1.5	980	--	--
06/08/02	168.80	157.32	11.48	3,500	1,500	3.6	<0.50	8.5	<1.5	2,800	--	--
09/13/02	168.80	157.02	11.78	2,400	1,200	1.8	<1.0	2.8	<1.5	3,300	--	--
12/13/02	168.80	157.97	10.83	3,400	1,100	2.4	<0.50	2.3	<1.5	2,000	--	--
03/17/03	168.80	158.71	10.09	3,700	1,600	<10	<0.50	5.1	<1.5	1,000	--	--
06/16/03 <sup>16</sup>	168.80	157.81	10.99	4,400	2,500	1	0.5	14	<0.5	260	--	--
09/15/03 <sup>16</sup>	168.80	157.38	11.42	4,700	1,700	1	<0.5	6	0.5	790	--	<50
12/15/03 <sup>16</sup>	168.80	158.58	10.22	3,200	610	<0.5	<0.5	1	<0.5	780	--	<50

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Chevron Service Station #9-6991  
2920 Castro Valley Boulevard  
Castro Valley, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	TPH-DRO (ug/L)	TPH-GRO (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	TOG (ug/L)	ETHANOL (ug/L)
<b>MW-7 (cont)</b>												
03/01/04 <sup>16</sup>	168.80	159.19	9.61	2,200	1,500	<0.5	<0.5	4	<0.5	16	--	<50
06/28/04 <sup>16</sup>	168.80	157.38	11.42	3,700	2,500	2	<0.5	8	<0.5	300	--	--
09/13/04 <sup>16</sup>	168.80	156.78	12.02	2,000	2,000	1	<1	4	<1	700	--	<100
12/22/04 <sup>16</sup>	168.80	158.39	10.41	1,300	970	0.8	<0.5	5	<0.5	370	--	<50
03/04/05 <sup>16</sup>	168.80	159.12	9.68	890	790	<0.5	<0.5	1	<0.5	5	--	<50
06/30/05 <sup>16</sup>	168.80	157.63	11.17	2,600	1,300	<0.5	<0.5	3	<0.5	68	--	<50
09/16/05 <sup>16</sup>	168.80	157.29	11.51	1,300	1,200	<0.5	<0.5	1	<0.5	380	--	<50
12/21/05 <sup>16</sup>	168.80	158.74	10.06	1,600 <sup>20</sup>	1,300	<0.5	<0.5	2	<0.5	170	--	<50
03/21/06 <sup>16</sup>	168.80	159.28	9.52	2,800	810	<0.5	<0.5	<0.5	<0.5	200	--	<50
06/21/06 <sup>16</sup>	168.80	157.35	11.45	1,100	1,800	0.5	<0.5	2	<0.5	260	--	<50
09/05/06 <sup>16</sup>	168.80	157.01	11.79	2,100	910	<0.5	<0.5	<0.5	<0.5	370	--	<50
12/28/06 <sup>16</sup>	168.80	158.34	10.46	7,200	2,700	0.5	<0.5	3	<0.5	140	--	<50
03/26/07 <sup>16</sup>	168.80	157.46	11.34	6,500	1,300	<0.5	<0.5	1	<0.5	150	--	<50
06/26/07 <sup>16</sup>	168.80	157.15	11.65	2,100	1,900	0.6	<0.5	2	<0.5	170	--	<50
09/26/07 <sup>16</sup>	168.80	156.98	11.82	2,200	670	<0.5	<0.5	<0.5	<0.5	420	--	<50
12/20/07 <sup>16</sup>	168.80	158.23	10.57	4,300	2,600	0.8	<0.5	4	<0.5	130	--	<50
02/29/08 <sup>16</sup>	168.80	158.56	10.24	2,400	1,400	<0.5	<0.5	2	<0.5	35	--	<50
05/09/08 <sup>16</sup>	168.80	157.27	11.53	1,700	2,200	0.6	0.6	2	<0.5	76	--	<50
09/19/08 <sup>16</sup>	168.80	156.86	11.94	10,000	610	<0.5	<0.5	<0.5	<0.5	430	--	<50
12/04/08 <sup>16</sup>	168.80	157.16	11.64	3,000	1,100	<0.5	<0.5	<0.5	<0.5	440	--	<50
03/05/09 <sup>16</sup>	168.80	159.46	9.34	1,000	2,100	<0.5	<0.5	3	<0.5	57	--	<50
06/23/09 <sup>16</sup>	168.80	157.41	11.39	2,300	1,800	<0.5	<0.5	1	<0.5	100	--	--
09/01/09 <sup>16</sup>	168.80	156.88	11.92	6,800	2,100	<0.5	<0.5	1	<0.5	150	--	--
03/16/10 <sup>16</sup>	168.80	158.99	9.81	5,500	1,700	<0.5	<0.5	2	<0.5	9	--	--
09/21/10 <sup>16</sup>	168.80	157.19	11.61	1,200	2,800	<0.5	<0.5	0.7	<0.5	16	--	--
03/23/11 <sup>16</sup>	168.80	159.59	9.21	360	76	<0.5	<0.5	<0.5	<0.5	0.6	--	--
09/23/11 <sup>16</sup>	168.80	157.32	11.48	340	420	<0.5	<0.5	<0.5	<0.5	14	--	--
03/20/12 <sup>16</sup>	168.80	158.87	9.93	590	290	<0.5	<0.5	<0.5	<0.5	2	--	--
<b>MW-3</b>												
10/08/91	169.11	160.84	8.27	--	81	1.9	0.7	0.8	2.4	--	--	--
11/04/91	169.11	158.26	10.85	--	60	<0.5	<0.5	<0.5	<0.5	--	--	--
12/04/91	169.11	158.06	11.05	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
06/05/92	169.11	157.96	11.15	170	<50	<0.5	<0.5	<0.5	<0.5	--	--	--



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Chevron Service Station #9-6991  
2920 Castro Valley Boulevard  
Castro Valley, California

WELL ID/ DATE	TGC (ft)	GWE (msl)	DTW (ft)	TPH-DRO (ug/L)	TPH-GRO (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	TOG (ug/L)	ETHANOL (ug/L)
<b>MW-3 (cont)</b>												
10/27/92	169.11	157.51	11.60	120	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
12/30/92	169.11	--	--	170	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
01/27/93	169.11	160.00	9.11	--	--	--	--	--	--	--	--	--
03/05/93	169.11	--	--	--	--	--	--	--	--	--	--	--
03/17/93	169.11	159.16	9.95	--	--	--	--	--	--	--	--	--
06/18/93	169.11	158.22	10.89	<50	<50	<0.5	<0.5	<0.5	<1.5	--	--	--
09/28/93	169.11	159.49	9.62	<50	<50	<0.5	<0.5	<0.5	<1.5	--	--	--
12/30/93	169.11	159.80	9.31	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
04/07/94	169.11	160.30	8.81	<10	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
05/31/94	169.11	160.21	8.90	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
09/23/94	169.11	158.48	10.63	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
11/30/94	169.11	160.19	8.92	--	--	--	--	--	--	--	--	--
03/30/95	169.11	160.01	9.10	290 <sup>1</sup>	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
06/06/95	169.11	158.79	10.32	150 <sup>1</sup>	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
09/25/95	169.11	158.11	11.00	260 <sup>1</sup>	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
12/28/95	169.11	158.96	10.15	200 <sup>1</sup>	<250	<2.5	<2.5	<2.5	<2.5	1,400	--	--
12/17/98	169.11	158.86	10.25	130 <sup>1</sup>	<250	<2.5	<2.5	<2.5	<2.5	62,000	--	--
03/19/99	169.11	159.37	9.74	139 <sup>1</sup>	<1,000	<10	<10	<10	<10	5,650/5,850 <sup>13</sup>	--	--
06/23/99	169.11	158.40	10.71	61.6 <sup>1</sup>	<2,000	<20	<20	<20	<20	6,700	--	--
09/16/99	169.11	157.44	11.67	122	<1,000	<10	<10	<10	<10	1,910	--	--
12/16/99	169.11	158.79	10.32	--	--	--	--	--	--	5,850	--	--
12/20/00	169.11	158.91	10.20	96.8 <sup>1</sup>	65.2	<0.5	<0.5	<0.5	<0.5	1,790	--	--
03/02/00	169.11	160.26	8.85	<50	<50	<0.5	<0.5	<0.5	<0.5	5,600	--	--
06/30/00	169.11	158.81	10.30	<50	360 <sup>5</sup>	<0.50	<0.50	<0.50	<0.50	1,300	--	--
09/30/00	NP	169.11	158.07	11.04	--	150 <sup>9</sup>	75	<1.3	<1.3	<1.3	8,200	--
12/19/00	NP	169.11	159.06	10.05	-- <sup>14</sup>	<1,000	<10	<10	<10	<10	4,600	--
03/13/01	NP	169.11	159.76	9.35	-- <sup>14</sup>	284	0.601	1.00	<0.500	1.27	3,670	--
06/12/01	NP	169.11	158.08	11.03	<50	140 <sup>9</sup>	67	<0.50	<0.50	<0.50	2,600	--
09/18/01	NP	169.11	157.96	11.15	100	240	<0.50	<0.50	<0.50	<1.5	3,200	--
12/17/01		169.11	159.22	9.89	270	55	<0.50	<0.50	<0.50	<1.5	930	--
03/21/02		169.11	159.38	9.73	290	190	<0.50	<0.50	<0.50	<1.5	2,600	--
06/08/02		169.11	158.21	10.90	110	110	<0.50	<0.50	<0.50	<1.5	2,200	--
09/13/02		169.11	158.26	10.85	<50	<50	<0.50	<0.50	<0.50	<1.5	650	--
12/13/02		169.11	159.11	10.00	120	<50	<0.50	<0.50	<0.50	<1.5	450	--
03/17/03		169.11	159.66	9.45	370	80	<0.50	<0.50	<0.50	<1.5	1,600	--

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2920 Castro Valley Boulevard  
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WELL ID/ DATE	TOC ( <i>fl</i> )	GWE ( <i>msl</i> )	DTW ( <i>fl</i> )	TPH-DRO ( <i>ug/L</i> )	TPH-GRO ( <i>ug/L</i> )	B ( <i>ug/L</i> )	T ( <i>ug/L</i> )	E ( <i>ug/L</i> )	X ( <i>ug/L</i> )	MTBE ( <i>ug/L</i> )	TOG ( <i>ug/L</i> )	ETHANOL ( <i>ug/L</i> )
<b>MW-3 (cont)</b>												
06/16/03	169.11	158.98	10.13	NOT SAMPLED DUE TO INSUFFICIENT WATER				--	--	--	--	--
09/15/03	169.11	157.85	11.26	NOT SAMPLED DUE TO INSUFFICIENT WATER				--	--	--	--	--
12/15/03 <sup>16</sup>	169.11	159.78	9.33	-- <sup>14</sup>	<50	<0.5	3	0.6	4	220	--	<50
03/01/04	169.11	159.22	9.89	NOT SAMPLED DUE TO INSUFFICIENT WATER				--	--	--	--	--
06/28/04 <sup>16</sup>	169.11	158.26	10.85	95	<50	<0.5	<0.5	<0.5	<0.5	980	--	--
09/13/04	169.11	DRY AT 12.96 FEET		--	--	--	--	--	--	--	--	--
12/22/04 <sup>16</sup>	NP	169.11	159.14	9.97	-- <sup>14</sup>	53	<0.5	<0.5	<0.5	<0.5	110	<50
03/04/05 <sup>16</sup>	NP	169.11	159.68	9.43	<50	<50	<0.5	<0.5	<0.5	<0.5	460	<50
06/30/05 <sup>16</sup>	NP	169.11	158.66	10.45	58 <sup>17</sup>	<50	<0.5	<0.5	<0.5	<0.5	600	<50
09/16/05 <sup>16</sup>	NP	169.11	158.26	10.85	-- <sup>14</sup>	<50	<0.5	<0.5	<0.5	<0.5	530	<50
NOT MONITORED/SAMPLED												
<b>MW-5</b>												
10/27/92	167.41	157.46	9.95	<50	74	<0.5	<0.5	0.6	7.1	--	--	--
12/30/92	167.41	158.21	9.20	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
01/27/93	167.41	157.80	9.61	--	--	--	--	--	--	--	--	--
03/05/93	167.41	--	--	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
03/17/93	167.41	157.90	9.51	--	--	--	--	--	--	--	--	--
06/18/93	167.41	157.56	9.85	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
09/28/93	167.41	157.55	9.86	<50	<50	<0.5	<0.5	<0.5	<1.5	--	--	--
12/30/93	167.41	157.08	10.33	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
04/07/94	167.41	157.69	9.72	<10	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
05/31/94	167.41	157.68	9.73	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
09/23/94	167.41	157.56	9.85	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
11/30/94	167.41	157.73	9.68	79 <sup>2</sup>	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
03/30/95	167.41	157.79	9.62	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
06/06/95	167.41	157.55	9.86	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
09/25/95	167.41	157.56	9.85	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
12/28/95	167.41	157.67	9.74	<50	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
NOT MONITORED/SAMPLED												

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WELL ID/ DATE	TOC (fl.)	GWE (msl)	DTW (fl.)	TPH-DRO (ug/L)	TPH-GRO (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	TOG (ug/L)	ETHANOL (ug/L)
<b>TRIP BLANK</b>												
10/08/91	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
11/04/91	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
12/04/91	--	--	--	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
06/05/92	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
12/30/92	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
01/27/93	--	--	--	<50	--	--	--	--	--	--	--	--
03/05/93	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
03/17/93	--	--	--	--	--	--	--	--	--	--	--	--
06/18/93	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--	--	--
09/28/93	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
12/30/93	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
04/07/94	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
05/31/94	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
09/23/94	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
11/30/94	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
03/30/95	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
06/06/95	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
09/25/95	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
12/28/95	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
03/05/96	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
06/27/96	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
09/13/96	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
12/19/96	--	--	--	--	<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	--	--
06/27/97	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
09/19/97	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
12/05/97	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
03/31/98	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
06/19/98	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
08/31/98	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
03/19/99	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.0	--	--
09/16/99	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
12/16/99	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
12/20/99	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
03/02/00	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--

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WELL ID/ DATE	TGC (ft.)	GWE (in.)	DTW (ft.)	TPH-DRO (ug/L)	TPH-GRO (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	TOG (ug/L)	ETHANOL (ug/L)
<b>TRIP BLANK (cont)</b>												
06/30/00 <sup>8</sup>	--	--	--	--	<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	--	--
12/19/00	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--
03/13/01	--	--	--	--	<50.0	<0.500	0.534	<0.500	1.25	<0.500	--	--
06/12/01	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--
09/18/01	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--	--
<b>QA</b>												
12/17/01	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--	--
03/21/02	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--	--
06/08/02	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--	--
09/13/02	--	--	--	--	<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	--	--
03/17/03	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--	--
06/16/03 <sup>16</sup>	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
09/15/03 <sup>16</sup>	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
12/15/03 <sup>16</sup>	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
03/01/04 <sup>16</sup>	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
06/28/04 <sup>16</sup>	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
09/13/04 <sup>16</sup>	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
12/22/04 <sup>16</sup>	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
03/04/05 <sup>16</sup>	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
06/30/05 <sup>16</sup>	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
09/16/05 <sup>16</sup>	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
12/21/05 <sup>16</sup>	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
03/21/06 <sup>16</sup>	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
06/21/06 <sup>16</sup>	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
09/05/06 <sup>16</sup>	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
12/28/06 <sup>16</sup>	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
03/26/07 <sup>16</sup>	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
06/26/07 <sup>16</sup>	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
09/26/07 <sup>16</sup>	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
12/20/07 <sup>16</sup>	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
02/29/08 <sup>16</sup>	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
05/09/08 <sup>16</sup>	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
09/19/08 <sup>16</sup>	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Chevron Service Station #9-6991  
2920 Castro Valley Boulevard  
Castro Valley, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	TPH-DRO (ug/L)	TPH-GRO (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	TOG (ug/L)	ETHANOL (ug/L)
QA (cont)												
12/04/08 <sup>16</sup>	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
03/05/09 <sup>16</sup>	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
06/23/09 <sup>16</sup>	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
09/01/09 <sup>16</sup>	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
DISCONTINUED												



**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Chevron Service Station #9-6991  
2920 Castro Valley Boulevard  
Castro Valley, California

**EXPLANATIONS:**

Groundwater monitoring data and laboratory analytical results prior to June 30, 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 = Total Petroleum Hydrocarbons

DRO = Diesel Range Organics

GRO = Gasoline Range Organics

TPH-D = Total Petroleum Hydrocarbons as Diesel

TOG = Total Oil and Grease

B = Benzene

T = Toluene

E = Ethylbenzene

X = Xylenes

MTBE = Methyl Tertiary Butyl Ether

(µg/L) = Micrograms per liter

-- = Not Measured/Not Analyzed

NP = No Purge

PER = Peristaltic Pump

QA = Quality Assurance/Trip Blank

- 1 Chromatogram pattern indicates an unidentified hydrocarbon.
- 2 Chromatogram pattern indicates a non-diesel mix.
- 3 Chromatogram pattern indicates an unidentified hydrocarbon and weathered diesel.
- 4 Chromatogram pattern indicates a non-diesel mix + discrete peaks.
- 5 Laboratory report indicates unidentified hydrocarbons C6-C12.
- 6 Laboratory report indicates gasoline C6-C12 + unidentified hydrocarbons C6-C12.
- 7 Laboratory report indicates unidentified hydrocarbons C9-C24.
- 8 Laboratory report indicates this sample was analyzed outside of the EPA recommended holding time.
- 9 Laboratory report indicates discrete peaks.
- 10 Laboratory report indicates gasoline C6-C12.
- 11 Laboratory report indicates unidentified hydrocarbons >C16.
- 12 Laboratory report indicates diesel C9-C24 + unidentified hydrocarbons <C16.
- 13 Confirmation run.
- 14 Insufficient water to obtain sample for TPH-D.
- 15 Laboratory report indicates unidentified hydrocarbons C9-C17.
- 16 BTEX and MTBE by EPA Method 8260.
- 17 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.
- 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 and contains individual peaks eluting in the DRO range.
- 19 Laboratory report indicates the observed sample pattern includes #2 fuel/diesel, an additional pattern which elutes later in the DRO range, and individual peaks eluting in the DRO range.
- 20 Laboratory report indicates the observed sample pattern includes #2 fuel/diesel and additional patterns which elute earlier and later in the DRO range.
- 21 Incorrect TOC elevation (168.80) was used in past reports. Correct TOC and GWE are shown.
- 22 Analysis inadvertently missed in the field.
- 23 No Purge due to insufficient water.
- 24 Laboratory report indicates DRO was detected in the method blank at a concentration of 38 µg/L. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.
- 25 Laboratory report indicates DRO was detected in the method blank at a concentration of 38 µg/L. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. The DRO result for the reextract is ND.

**Table 2**  
**Field Measurements and Analytical Results**  
Chevron Service Station #9-6991  
2920 Castro Valley Boulevard  
Castro Valley, California

WELL ID	DATE	D.O. (mg/L)	ORP (mV)	ALKALINITY (ug/L)	SULFATE (ug/L)	NITRATE as NITROGEN (ug/L)	FERROUS IRON (ug/L)
MW-1	12/21/05	3.7	151	581,000	184,000	6,400	29
	03/21/06	4.7	32	546,000	147,000	5,800	600
	06/21/06	SAMPLED ANNUALLY		--	--	--	--
	09/05/06	SAMPLED ANNUALLY		--	--	--	--
	12/28/06	SAMPLED ANNUALLY		--	--	--	--
	03/26/07	3.4	47	844,000 <sup>3</sup>	112,000	3,600	22,400
	02/29/08	2.6	153	<sup>1</sup> <460/584,000 <sup>2</sup>	158,000	4,500	730
	MW-4	12/21/05	1.4	89	396,000	137,000	2,300
03/21/06		3.0	82	407,000	139,000	2,200	<8.0
06/21/06		0.3	86	<sup>1</sup> 710/403,000 <sup>2</sup>	136,000	2,700	12
09/05/06		2.1	106	<sup>1</sup> <460/412,000 <sup>2</sup>	147,000	2,700	210
12/28/06		1.1	114	<sup>1</sup> <460/396,000 <sup>2</sup>	175,000	2,500	<8.0
03/26/07		1.2	188	393,000 <sup>3</sup>	151,000	1,800	190
06/26/07		1.9	31	392,000	179,000	2,900	<8.0
09/26/07		2.3	110	<sup>1</sup> <460/412,000 <sup>2</sup>	182,000	1,600	<8.0
12/20/07		2.1	76	<sup>1</sup> <460/402,000 <sup>2</sup>	169,000	1,400	<8.0
02/29/08		1.6	88	<sup>1</sup> <460/396,000 <sup>2</sup>	193,000	1,500	15
05/09/08		1.1	77	<sup>1</sup> <460/399,000 <sup>2</sup>	165,000	1,500	23
09/19/08		1.7	43	<sup>1</sup> <460/420,000 <sup>2</sup>	167,000	2,500	<8.0
MW-7		12/21/05	1.4	53	475,000	2,700	<400
	03/21/06	2.5	12	439,000	3,800	<400	3,800
	06/21/06	0.1	-62	<sup>1</sup> 1,400/480,000 <sup>2</sup>	1,600	<250	5,000
	09/05/06	1.2	-23	<sup>1</sup> <460/419,000 <sup>2</sup>	1,700	<250	3,500
	12/28/06	0.80	-36	<sup>1</sup> <460/498,000 <sup>2</sup>	2,100	<250	1,000
	03/26/07	1.1	-24	490,000 <sup>3</sup>	2,000	<250	2,200
	06/26/07	1.0	-72	426,000	1,800	<250	4,700
	09/26/07	.90	26	<sup>1</sup> <460/423,000 <sup>2</sup>	2,400	<250	3,800
	12/20/07	1.3	-8	<sup>1</sup> <460/539,000 <sup>2</sup>	3,200	<250	910
	02/29/08	1.2	80	<sup>1</sup> <460/510,000 <sup>2</sup>	8,100	<250	690
	05/09/08	1.0	65	<sup>1</sup> <460/157,000 <sup>2</sup>	2,700	<250	1,800
	09/19/08	1.7	25	<sup>1</sup> <460/403,000 <sup>2</sup>	8,100	<250	8,000

**Table 2**  
**Field Measurements and Analytical Results**  
Chevron Service Station #9-6991  
2920 Castro Valley Boulevard  
Castro Valley, California

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**EXPLANATIONS:**

D.O. = Dissolved Oxygen

(mg/L) = milligrams per liter

ORP = Oxidation Reduction Potential

(mV) = millivolts

-- = Not Analyzed

(µg/L) = Micrograms per liter

<sup>1</sup> pH 8.3.

<sup>2</sup> pH 4.5.

<sup>3</sup> Laboratory report indicates this sample was analyzed past the 14-day hold time.

**ANALYTICAL METHODS:**

Alkalinity by EPA Method SM20 2320 B for Alkalinity to pH 8.3

Alkalinity by EPA Method SM20 2320 B for Alkalinity to pH 4.5

Sulfate by EPA Method 300.0

Nitrate as Nitrogen by EPA Method 300.00

Ferrous Iron by EPA Method SM20 3500-Fe B

## STANDARD OPERATING PROCEDURE - GROUNDWATER SAMPLING

Gettler-Ryan Inc. (GR) field personnel adhere to the following procedures for the collection and handling of groundwater samples prior to analysis by the analytical laboratory. All work is performed in accordance with the GR Health & Safety Plan and all client-specific programs. The scope of work and type of analysis to be performed is determined prior to commencing field work.

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, peristaltic or Grundfos), or disposable bailers. Temperature, pH and electrical conductivity are measured a minimum of three times during the purging (additional parameters such as dissolved oxygen, oxidation reduction potential, turbidity may also be measured, depending on specific scope of work.). 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 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, as directed by the scope of work. 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.

As requested by Chevron Environmental Management Company, the purge water and decontamination water generated during sampling activities is transported by Clean Harbors Environmental Services to Evergreen Oil located in Newark, California.



# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #9-6991 Job Number: 385296  
 Site Address: 2920 Castro Valley Blvd Event Date: 3/20/12 (inclusive)  
 City: Castro Valley, CA Sampler: HAIG K.

Well ID: MW-1 Date Monitored: 3/20/12  
 Well Diameter: 3/4 in.  
 Total Depth: 17.72 ft.  
 Depth to Water: 10.57 ft.  Check if water column is less than 0.50 ft.  
 Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 12.00

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 \_\_\_\_\_  
 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: 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): 0920 Weather Conditions: PARTLY SUNNY  
 Sample Time/Date: 0950/3/20/12 Water Color: CLEAR Odor: Y/N  
 Approx. Flow Rate: \_\_\_\_\_ gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? NO If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal. DTW @ Sampling: 11.82

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O (mg/L)	ORP (mV)
<u>0926</u>	<u>0.2</u>	<u>7.49</u>	<u>632</u>	<u>17.4</u>		
<u>0930</u>	<u>0.4</u>	<u>7.46</u>	<u>628</u>	<u>17.6</u>		
_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-1	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX+MTBE(8260)
	2 x 500ml ambers	YES	NO	LANCASTER	TPH-DRO (8015)

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

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



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #9-6991  
 Site Address: 2920 Castro Valley Blvd  
 City: Castro Valley, CA

Job Number: 385296  
 Event Date: 3/20/12 (inclusive)  
 Sampler: HAIG K.

Well ID: MW-2  
 Well Diameter: 3/4" / 2 in.  
 Total Depth: 14.66 ft.  
 Depth to Water: 10.75 ft.

Date Monitored: 3/20/12

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]: 11.53  
 $3.91 \times VF \ 0.02 = 0.07$  x3 case volume = Estimated Purge Volume: 0.2 gal.

### 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: 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): 1007  
 Sample Time/Date: 1040/3/20/12  
 Approx. Flow Rate: \_\_\_\_\_ gpm.  
 Did well de-water? NO If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal. DTW @ Sampling: 11.40

Weather Conditions: PARTLY SUNNY  
 Water Color: 2 CLEAR Odor: 0 IN SLIGHT  
 Sediment Description: \_\_\_\_\_

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
<u>1012</u>	<u>0.1</u>	<u>7.53</u>	<u>603</u>	<u>17.5</u>	<u>/</u>	<u>/</u>
<u>1016</u>	<u>0.2</u>	<u>7.51</u>	<u>597</u>	<u>17.4</u>	<u>/</u>	<u>/</u>
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-2	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTX+MTBE(8260)
	2 x 500ml ambers	YES	NO	LANCASTER	TPH-DRO (8015)

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

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



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #9-6991  
 Site Address: 2920 Castro Valley Blvd  
 City: Castro Valley, CA

Job Number: 385296  
 Event Date: 3/20/12 (inclusive)  
 Sampler: HAIG K.

Well ID: MW-4  
 Well Diameter: 3/4 (2) in.  
 Total Depth: 19.75 ft.  
 Depth to Water: 9.65 ft.

Date Monitored: 3/20/12

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]: 11.67  
 Check if water column is less than 0.50 ft.  
 xVF 0.17 = 1.71 x3 case volume = Estimated Purge Volume: 5.1 gal.

### 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: Ø 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): 0845 Weather Conditions: PARTLY SUNNY  
 Sample Time/Date: 0905/3/20/12 Water Color: CLEAR Odor: Y/N  
 Approx. Flow Rate: \_\_\_\_\_ gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? NO If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal. DTW @ Sampling: 10.30

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - DS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
<u>0850</u>	<u>2</u>	<u>7.46</u>	<u>673</u>	<u>17.2</u>		
<u>0854</u>	<u>4</u>	<u>7.42</u>	<u>671</u>	<u>17.3</u>		
<u>0858</u>	<u>5.25</u>	<u>7.43</u>	<u>668</u>	<u>17.5</u>		

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-4</u>	<u>6 x vov vial</u>	<u>YES</u>	<u>HCL</u>	<u>LANCASTER</u>	<u>TPH-GRO(8015)/BTEX+MTBE(8260)</u>
	<u>2 x 500ml ambers</u>	<u>YES</u>	<u>NO</u>	<u>LANCASTER</u>	<u>TPH-DRO (8015)</u>

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

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



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #9-6991  
 Site Address: 2920 Castro Valley Blvd  
 City: Castro Valley, CA

Job Number: 385296  
 Event Date: 3/20/12 (inclusive)  
 Sampler: HAIK K

Well ID: MW-6  
 Well Diameter: 3/4 (2) in.  
 Total Depth: 23.35 ft.  
 Depth to Water: 9.40 ft.

Date Monitored: 3/20/12

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]: 12.19  
 $13.95 \times VF 0.17 = 2.37$  x3 case volume = Estimated Purge Volume: 7.1 gal.

### 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: 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): 1140 Weather Conditions: PARTLY SUNNY  
 Sample Time/Date: 12:10/3/20/12 Water Color: ORANGE Odor: (Y) IN SLIGHT  
 Approx. Flow Rate: \_\_\_\_\_ gpm. Sediment Description: SILT  
 Did well de-water? NO If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal. DTW @ Sampling: 10.23

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
<u>1146</u>	<u>2.5</u>	<u>7.43</u>	<u>581</u>	<u>17.3</u>		
<u>1152</u>	<u>5</u>	<u>7.39</u>	<u>588</u>	<u>17.5</u>		
<u>1158</u>	<u>7.25</u>	<u>7.36</u>	<u>585</u>	<u>17.5</u>		

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-6	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX+MTBE(8260)
	2 x 500ml ambers	YES	NO	LANCASTER	TPH-DRO (8015)

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

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





# GETTLER - RYAN Inc.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #9-6991  
 Site Address: 2920 Castro Valley Blvd  
 City: Castro Valley, CA

Job Number: 385296  
 Event Date: 3 / 20 / 12 (inclusive)  
 Sampler: HANG K.

Well ID: MW-17  
 Well Diameter: 3/4 (2) in.  
 Total Depth: 19.67 ft.  
 Depth to Water: 9.93 ft.

Date Monitored: 3 / 20 / 12

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]: 11.87  
 Estimated Purge Volume: 4.9 gal.

### 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: 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): 1055 Weather Conditions: PARTLY SUNNY  
 Sample Time/Date: 1120/3/20/12 Water Color: CLEAR Odor: (Y) N MODERATE  
 Approx. Flow Rate: \_\_\_\_\_ gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? NO If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal. DTW @ Sampling: 10.49

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
<u>1100</u>	<u>2</u>	<u>7.58</u>	<u>446</u>	<u>17.4</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<u>1105</u>	<u>3.5</u>	<u>7.55</u>	<u>453</u>	<u>17.3</u>	_____	_____
<u>1110</u>	<u>5</u>	<u>7.51</u>	<u>451</u>	<u>17.6</u>	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-17</u>	<u>6</u> x vovial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX+MTBE(8260)
	<u>2</u> x 500ml ambers	YES	NO	LANCASTER	TPH-DRO (8015)

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

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

# Chevron California Region Analysis Request/Chain of Custody



032012-10  
SODal arbr

Acct. #: 12099

For Lancaster Laboratories use only  
Sample #: 6586578-82

Group #: 020430

CRA MTI Project #: 61H-1633

C# 1296760

Facility #: SS#9-6991 G-R#385296 Global ID#T0600100324  
 Site Address: 2920 CASTRO VALLEY BLVD, CASTRO VALLEY, CA  
 Chevron PM: MTI CRAKJ Kiernan  
 Lead Consultant: G-R, Inc., 6747 Sierra Court, Suite J, Dublin, CA 94568  
 Consultant/Office: Deanna L. Harding (deanna@grinc.com)  
 Consultant Prj. Mgr.:  
 Consultant Phone #: 925-551-7555 Fax #: 925-551-7899  
 Sampler: HAIG KEVORK

Sample Identification				Matrix			Total Number of Containers	Analyses Requested						Preservative Codes
				Soil	Water	Oil <input type="checkbox"/> Air		BTEX + MTBE 8260 <input checked="" type="checkbox"/> 8021	TPH 8015 MOD GRO	TPH 8015 MOD DRO <input type="checkbox"/> Silica Gel Cleanup	8260 full scan	Oxygenates	Total Lead Method	
MW-1	3/20/12	0950	X	X	X	0	X	X	X	X				
MW-2		1040	X	X	X	0	X	X	X	X				
MW-4		0905	X	X	X	0	X	X	X	X				
MW-6		1210	X	X	X	0	X	X	X	X				
MW-7		1120	X	X	X	0	X	X	X	X				

**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

**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)** EDF/EDD  
 QC Summary      Type I - Full  
 Type VI (Raw Data)       Coelt Deliverable not needed  
 WIP (RWQCB)  
 Disk

Relinquished by: <i>[Signature]</i>	Date: 3/20/12	Time: 1:30	Received by: <i>[Signature]</i>	Date: 3/20/12	Time: 1:30
Relinquished by: <i>[Signature]</i>	Date: 28 APR 12	Time: 1630	Received by: <i>[Signature]</i> SOUTH WEST	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by Commercial Carrier: UPS      FedEx      Other	Temperature Upon Receipt: 0.7 - 2.2 °C		Received by: <i>[Signature]</i>	Date: 3/21/12	Time: 1545
Custody Seals Intact?			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		



Lancaster  
Laboratories

# 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 by:

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

Prepared for:

Chevron c/o CRA  
Suite 107  
10969 Trade Center Dr  
Rancho Cordova CA 95670

March 29, 2012

Project: 96991

Submittal Date: 03/21/2012

Group Number: 1296760

PO Number: 96991

Release Number: MTI

State of Sample Origin: CA

RECEIVED

MAR 30 2012

GETTLER-RYAN INC.  
GENERAL CONTRACTORS

Client Sample Description

MW-1-W-120320 Grab Water  
MW-2-W-120320 Grab Water  
MW-4-W-120320 Grab Water  
MW-6-W-120320 Grab Water  
MW-7-W-120320 Grab Water

Lancaster Labs (LLI) #

6586578  
6586579  
6586580  
6586581  
6586582

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO Gettler-Ryan, Inc.  
ELECTRONIC COPY TO Chevron c/o CRA  
ELECTRONIC COPY TO Chevron

Attn: Rachelle Munoz  
Attn: Report Contact  
Attn: Anna Avina



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## ***Analysis Report***

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2881 • [www.lancasterlabs.com](http://www.lancasterlabs.com)

Respectfully Submitted,

A handwritten signature in cursive script that reads "Jill M. Parker".

Jill M. Parker  
Senior Specialist

(717) 556-7262



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# Analysis Report

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Page 1 of 1

**Sample Description:** MW-1-W-120320 Grab Water  
**Facility#** 96991 **Job#** 385296 **MTI#** 61H-1633 GRD  
 2920 Castro Valley-Castro T0600100324 MW-1

**LLI Sample #** WW 6586578  
**LLI Group #** 1296760  
**Account #** 12099

**Project Name:** 96991

**Collected:** 03/20/2012 09:50 by HK Chevron c/o CRA  
 Suite 107  
**Submitted:** 03/21/2012 15:45 10969 Trade Center Dr  
**Reported:** 03/29/2012 19:19 Rancho Cordova CA 95670

69911

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles SW-846 8260B</b>					
10943	Benzene	71-43-2	N.D.	0.5	1
10943	Ethylbenzene	100-41-4	N.D.	0.5	1
10943	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10943	Toluene	108-88-3	N.D.	0.5	1
10943	Xylene (Total)	1330-20-7	N.D.	0.5	1
<b>GC Volatiles SW-846 8015B</b>					
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	1
<b>GC Petroleum SW-846 8015B</b>					
<b>Hydrocarbons</b>					
06609	TPH-DRO CA C10-C28	n.a.	70	50	1

### General Sample Comments

State of California Lab Certification No. 2501  
 Trip blank vials were not received by the laboratory for this sample group.  
 All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10943	BTEX/MTBE 8260 Water	SW-846 8260B	1	Z120871AA	03/27/2012 21:02	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z120871AA	03/27/2012 21:02	Daniel H Heller	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	12085A07A	03/25/2012 17:46	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	12085A07A	03/25/2012 17:46	Marie D John	1
06609	TPH-DRO CA C10-C28	SW-846 8015B	1	120830011A	03/27/2012 04:39	Tracy A Cole	1
02376	Extraction - Fuel/TPH (Waters)	SW-846 3510C	1	120830011A	03/24/2012 09:15	Katheryne V Sponheimer	1



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# Analysis Report

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Page 1 of 1

**Sample Description:** MW-2-W-120320 Grab Water  
 Facility# 96991 Job# 385296 MTI# 61H-1633 GRD  
 2920 Castro Valley-Castro T0600100324 MW-2

LLI Sample # WW 6586579  
 LLI Group # 1296760  
 Account # 12099

**Project Name:** 96991

Collected: 03/20/2012 10:40 by HK Chevron c/o CRA  
 Suite 107  
 Submitted: 03/21/2012 15:45 10969 Trade Center Dr  
 Reported: 03/29/2012 19:19 Rancho Cordova CA 95670

69912

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>					
	<b>SW-846 8260B</b>		ug/l	ug/l	
10943	Benzene	71-43-2	0.7	0.5	1
10943	Ethylbenzene	100-41-4	N.D.	0.5	1
10943	Methyl Tertiary Butyl Ether	1634-04-4	31	0.5	1
10943	Toluene	108-88-3	N.D.	0.5	1
10943	Xylene (Total)	1330-20-7	N.D.	0.5	1
<b>GC Volatiles</b>					
	<b>SW-846 8015B</b>		ug/l	ug/l	
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	1
<b>GC Petroleum Hydrocarbons</b>					
	<b>SW-846 8015B</b>		ug/l	ug/l	
06609	TPH-DRO CA C10-C28	n.a.	330	50	1

### General Sample Comments

State of California Lab Certification No. 2501  
 Trip blank vials were not received by the laboratory for this sample group.

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

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10943	BTEX/MTBE 8260 Water	SW-846 8260B	1	Z120871AA	03/27/2012 21:26	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z120871AA	03/27/2012 21:26	Daniel H Heller	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	12085A07A	03/25/2012 18:11	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	12085A07A	03/25/2012 18:11	Marie D John	1
06609	TPH-DRO CA C10-C28	SW-846 8015B	1	120830011A	03/27/2012 05:49	Tracy A Cole	1
02376	Extraction - Fuel/TPH (Waters)	SW-846 3510C	1	120830011A	03/24/2012 09:15	Katheryne V Sponheimer	1



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# Analysis Report

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**Sample Description:** MW-4-W-120320 Grab Water

Facility# 96991 Job# 385296 MTI# 61H-1633 GRD  
2920 Castro Valley-Castro T0600100324 MW-4

LLI Sample # WW 6586580

LLI Group # 1296760

Account # 12099

**Project Name:** 96991

Collected: 03/20/2012 09:05 by HK

Chevron c/o CRA

Suite 107

Submitted: 03/21/2012 15:45

10969 Trade Center Dr

Reported: 03/29/2012 19:19

Rancho Cordova CA 95670

69914

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>	<b>SW-846 8260B</b>		<b>ug/l</b>	<b>ug/l</b>	
10943	Benzene	71-43-2	N.D.	0.5	1
10943	Ethylbenzene	100-41-4	N.D.	0.5	1
10943	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10943	Toluene	108-88-3	N.D.	0.5	1
10943	Xylene (Total)	1330-20-7	N.D.	0.5	1
<b>GC Volatiles</b>	<b>SW-846 8015B</b>		<b>ug/l</b>	<b>ug/l</b>	
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	1
<b>GC Petroleum Hydrocarbons</b>	<b>SW-846 8015B</b>		<b>ug/l</b>	<b>ug/l</b>	
06609	TPH-DRO CA C10-C28	n.a.	N.D.	50	1

### General Sample Comments

State of California Lab Certification No. 2501

Trip blank vials were not received by the laboratory for this sample group.

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

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10943	BTEX/MTBE 8260 Water	SW-846 8260B	1	Z120871AA	03/27/2012 21:50	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z120871AA	03/27/2012 21:50	Daniel H Heller	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	12085A07A	03/25/2012 18:36	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	12085A07A	03/25/2012 18:36	Marie D John	1
06609	TPH-DRO CA C10-C28	SW-846 8015B	1	120830011A	03/27/2012 01:13	Tracy A Cole	1
02376	Extraction - Fuel/TPH (Waters)	SW-846 3510C	1	120830011A	03/24/2012 09:15	Katheryne V Sponheimer	1



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# Analysis Report

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**Sample Description:** MW-6-W-120320 Grab Water  
 Facility# 96991 Job# 385296 MTI# 61H-1633 GRD  
 2920 Castro Valley-Castro T0600100324 MW-6

LLI Sample # WW 6586581  
 LLI Group # 1296760  
 Account # 12099

**Project Name:** 96991

Collected: 03/20/2012 12:10 by HK

Chevron c/o CRA

Suite 107

Submitted: 03/21/2012 15:45

10969 Trade Center Dr

Reported: 03/29/2012 19:19

Rancho Cordova CA 95670

69916

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>					
	SW-846 8260B		ug/l	ug/l	
10943	Benzene	71-43-2	N.D.	0.5	1
10943	Ethylbenzene	100-41-4	N.D.	0.5	1
10943	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10943	Toluene	108-88-3	N.D.	0.5	1
10943	Xylene (Total)	1330-20-7	N.D.	0.5	1
<b>GC Volatiles</b>					
	SW-846 8015B		ug/l	ug/l	
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	1
<b>GC Petroleum Hydrocarbons</b>					
	SW-846 8015B		ug/l	ug/l	
06609	TPH-DRO CA C10-C28	n.a.	52	50	1

### General Sample Comments

State of California Lab Certification No. 2501

Trip blank vials were not received by the laboratory for this sample group.

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

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10943	BTEX/MTBE 8260 Water	SW-846 8260B	1	P120884AA	03/29/2012 04:02	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	P120884AA	03/29/2012 04:02	Kevin A Sposito	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	12085A07A	03/25/2012 19:02	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	12085A07A	03/25/2012 19:02	Marie D John	1
06609	TPH-DRO CA C10-C28	SW-846 8015B	1	120830011A	03/27/2012 01:36	Tracy A Cole	1
02376	Extraction - Fuel/TPH (Waters)	SW-846 3510C	1	120830011A	03/24/2012 09:15	Katheryne V Sponheimer	1





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# Analysis Report

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Page 1 of 1

**Sample Description:** MW-7-W-120320 Grab Water  
Facility# 96991 Job# 385296 MTI# 61H-1633 GRD  
2920 Castro Valley-Castro T0600100324 MW-7

LLI Sample # WW 6586582  
LLI Group # 1296760  
Account # 12099

**Project Name:** 96991

Collected: 03/20/2012 11:20 by HK

Chevron c/o CRA

Submitted: 03/21/2012 15:45

Suite 107

Reported: 03/29/2012 19:19

10969 Trade Center Dr  
Rancho Cordova CA 95670

69917

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles</b>					
	SW-846 8260B		ug/l	ug/l	
10943	Benzene	71-43-2	N.D.	0.5	1
10943	Ethylbenzene	100-41-4	N.D.	0.5	1
10943	Methyl Tertiary Butyl Ether	1634-04-4	2	0.5	1
10943	Toluene	108-88-3	N.D.	0.5	1
10943	Xylene (Total)	1330-20-7	N.D.	0.5	1
<b>GC Volatiles</b>					
	SW-846 8015B		ug/l	ug/l	
01728	TPH-GRO N. CA water C6-C12	n.a.	290	50	1
<b>GC Petroleum Hydrocarbons</b>					
	SW-846 8015B		ug/l	ug/l	
06609	TPH-DRO CA C10-C28	n.a.	590	50	1

### General Sample Comments

State of California Lab Certification No. 2501

Trip blank vials were not received by the laboratory for this sample group.

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

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10943	BTEX/MTBE 8260 Water	SW-846 8260B	1	P120884AA	03/29/2012 04:30	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	P120884AA	03/29/2012 04:30	Kevin A Sposito	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	12085A07A	03/25/2012 19:27	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	12085A07A	03/25/2012 19:27	Marie D John	1
06609	TPH-DRO CA C10-C28	SW-846 8015B	1	120830011A	03/27/2012 01:59	Tracy A Cole	1
02376	Extraction - Fuel/TPH (Waters)	SW-846 3510C	1	120830011A	03/24/2012 09:15	Katheryne V Sponheimer	1

## Quality Control Summary

 Client Name: Chevron c/o CRA  
 Reported: 03/29/12 at 07:19 PM

Group Number: 1296760

Matrix QC may not be reported if insufficient sample or 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.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

### 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: P120884AA	Sample number(s): 6586581-6586582							
Benzene	N.D.	0.5	ug/l	96		77-121		
Ethylbenzene	N.D.	0.5	ug/l	94		79-120		
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	94		68-121		
Toluene	N.D.	0.5	ug/l	95		79-120		
Xylene (Total)	N.D.	0.5	ug/l	96		77-120		
Batch number: Z120871AA	Sample number(s): 6586578-6586580							
Benzene	N.D.	0.5	ug/l	93		77-121		
Ethylbenzene	N.D.	0.5	ug/l	103		79-120		
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	97		68-121		
Toluene	N.D.	0.5	ug/l	99		79-120		
Xylene (Total)	N.D.	0.5	ug/l	103		77-120		
Batch number: 12085A07A	Sample number(s): 6586578-6586582							
TPH-GRO N. CA water C6-C12	N.D.	50.	ug/l	109	109	75-135	0	30
Batch number: 120830011A	Sample number(s): 6586578-6586582							
TPH-DRO CA C10-C28	N.D.	32.	ug/l	94	94	56-122	0	20

### 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: P120884AA	Sample number(s): 6586581-6586582 UNSPK: P587603								
Benzene	95	99	72-134	1	30				
Ethylbenzene	97	105	71-134	4	30				
Methyl Tertiary Butyl Ether	96	107	72-126	5	30				
Toluene	102	110	80-125	8	30				
Xylene (Total)	100	108	79-125	8	30				
Batch number: Z120871AA	Sample number(s): 6586578-6586580 UNSPK: 6586580								
Benzene	92	93	72-134	1	30				
Ethylbenzene	104	102	71-134	2	30				
Methyl Tertiary Butyl Ether	95	96	72-126	1	30				
Toluene	98	101	80-125	3	30				
Xylene (Total)	105	105	79-125	0	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 c/o CRA  
 Reported: 03/29/12 at 07:19 PM

Group Number: 1296760

### 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: UST VOCs by 8260B - Water  
 Batch number: P120884AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6586581	100	96	97	97
6586582	101	93	97	99
Blank	102	94	99	100
LCS	102	97	97	99
MS	103	96	98	102
MSD	101	100	100	102
Limits:	80-116	77-113	80-113	78-113

 Analysis Name: UST VOCs by 8260B - Water  
 Batch number: Z120871AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6586578	109	99	101	92
6586579	106	99	99	93
6586580	105	99	99	91
Blank	104	99	100	92
LCS	103	99	98	96
MS	104	102	99	95
MSD	102	101	98	96
Limits:	80-116	77-113	80-113	78-113

 Analysis Name: TPH-GRO N. CA water C6-C12  
 Batch number: 12085A07A

	Trifluorotoluene-F
6586578	94
6586579	102
6586580	96
6586581	93
6586582	103
Blank	94
LCS	102
LCSD	104
Limits:	63-135

 Analysis Name: TPH-DRO CA C10-C28  
 Batch number: 120830011A

	Orthoterphenyl
6586578	94
6586579	94
6586580	96
6586581	90
6586582	99
Blank	86
LCS	99

#### \* - 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 c/o CRA  
Reported: 03/29/12 at 07:19 PM

Group Number: 1296760

**Surrogate Quality Control**

LCSD 102

Limits: 50-154

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\*- 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.

# Explanation of Symbols and Abbreviations

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

<b>RL</b>	Reporting Limit	<b>BMQL</b>	Below Minimum Quantitation Level
<b>N.D.</b>	none detected	<b>MPN</b>	Most Probable Number
<b>TNTC</b>	Too Numerous To Count	<b>CP Units</b>	cobalt-chloroplatinate units
<b>IU</b>	International Units	<b>NTU</b>	nephelometric turbidity units
<b>umhos/cm</b>	micromhos/cm	<b>ng</b>	nanogram(s)
<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>µg</b>	microgram(s)	<b>mg</b>	milligram(s)
<b>mL</b>	milliliter(s)	<b>L</b>	liter(s)
<b>m<sup>3</sup></b>	cubic meter(s)	<b>µL</b>	microliter(s)
		<b>pg/L</b>	picogram/liter
<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. All other results are reported on an as-received basis.		

## Data Qualifiers:

**C** – result confirmed by reanalysis.

**J** - estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

## 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 ≥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 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.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

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