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9:02 am, May 03, 2010

Alameda County  
Environmental Health

**Aaron Costa**  
Project Manager  
Marketing Business Unit

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

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

Re: Chevron Service Station No. 9-3600  
2200 Telegraph Avenue  
Oakland, CA

I have reviewed the attached report dated April 28, 2010.

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 to the best of my knowledge.

Sincerely,

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

Aaron Costa  
Project Manager

Attachment: Report



**CONESTOGA-ROVERS  
& ASSOCIATES**

5900 Hollis Street, Suite A  
Emeryville, California 94608  
Telephone: (510) 420-0700 Fax: (510) 420-9170  
<http://www.craworld.com>

April 28, 2010

Reference No. 311965

Mr. Mark Detterman  
Alameda County Environmental Health Services  
1131 Harbor Bay Parkway, Suite 250  
Alameda, California 94502-6577

Re: Third Quarter 2009 Groundwater Monitoring and Sampling Report  
Chevron Service Station 9-3600  
2200 Telegraph Avenue  
Oakland, California  
Fuel Leak Case No. RO0002435

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Dear Mr. Mark Detterman:

Conestoga-Rovers & Associates is submitting this *Third Quarter 2009 Groundwater Monitoring and Sampling Report* for the site referenced above (Figure 1) on behalf of Chevron Environmental Management Company (Chevron).

On July 23, 2009, groundwater monitoring and sampling was performed by Blaine Tech Services of San Jose, California (Blaine Tech). Groundwater potentiometric and concentration data from this event are presented on Figure 2. Groundwater monitoring and sampling data are presented in Tables 1 and 2. Blaine Tech's July 23, 2009 *Third Quarter 2009 Monitoring* report is included as Attachment A. The Lancaster Laboratories groundwater analytical report is included as Attachment B.

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Equal  
Employment Opportunity  
Employer

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**CONESTOGA-ROVERS  
& ASSOCIATES**

April 28, 2010

Reference No. 311965

- 2 -

Please contact Brandon Wilken at (510) 420-3355 if you have any questions or require additional information.

Sincerely,

CONESTOGA-ROVERS & ASSOCIATES

Ian Hull

Brandon S. Wilken, P.G. #7564

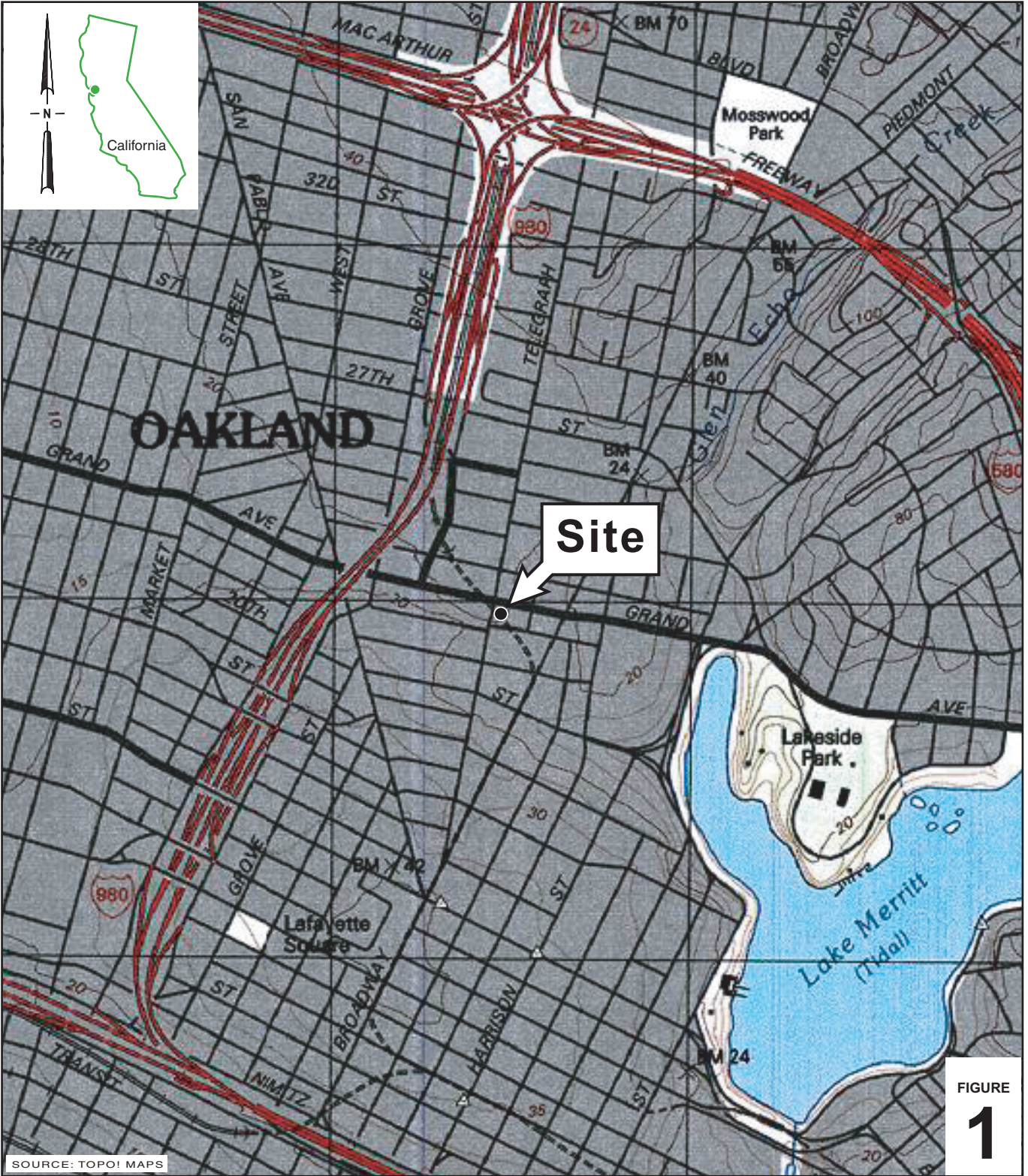


IH/doh/4  
Encl.

Figure 1	Vicinity Map
Figure 2	Groundwater Elevation and Hydrocarbon Concentration Map
Table 1	Groundwater Monitoring Data and Analytical Results
Table 2	Groundwater Analytical Results - Oxygenate Compounds
Attachment A	Blaine Tech's July 24, 2009 <i>Third Quarter 2009 Monitoring Report</i>
Attachment B	Lancaster Laboratories' August 5, 2009 analytical report

cc: Mr. Aaron Costa, Chevron

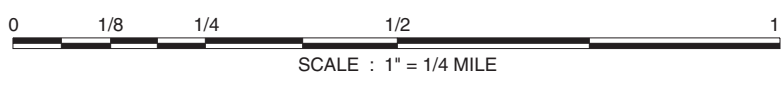
## FIGURES



I:\9-3600 OAKLAND\FIGURES\9-3600\_VICINITY-MAP.A1

SOURCE: TOPOI MAPS

FIGURE 1



**Chevron Service Station 9-3600**  
 2200 Telegraph Avenue  
 Oakland, California



**CONESTOGA-ROVERS  
& ASSOCIATES**

**Vicinity Map**

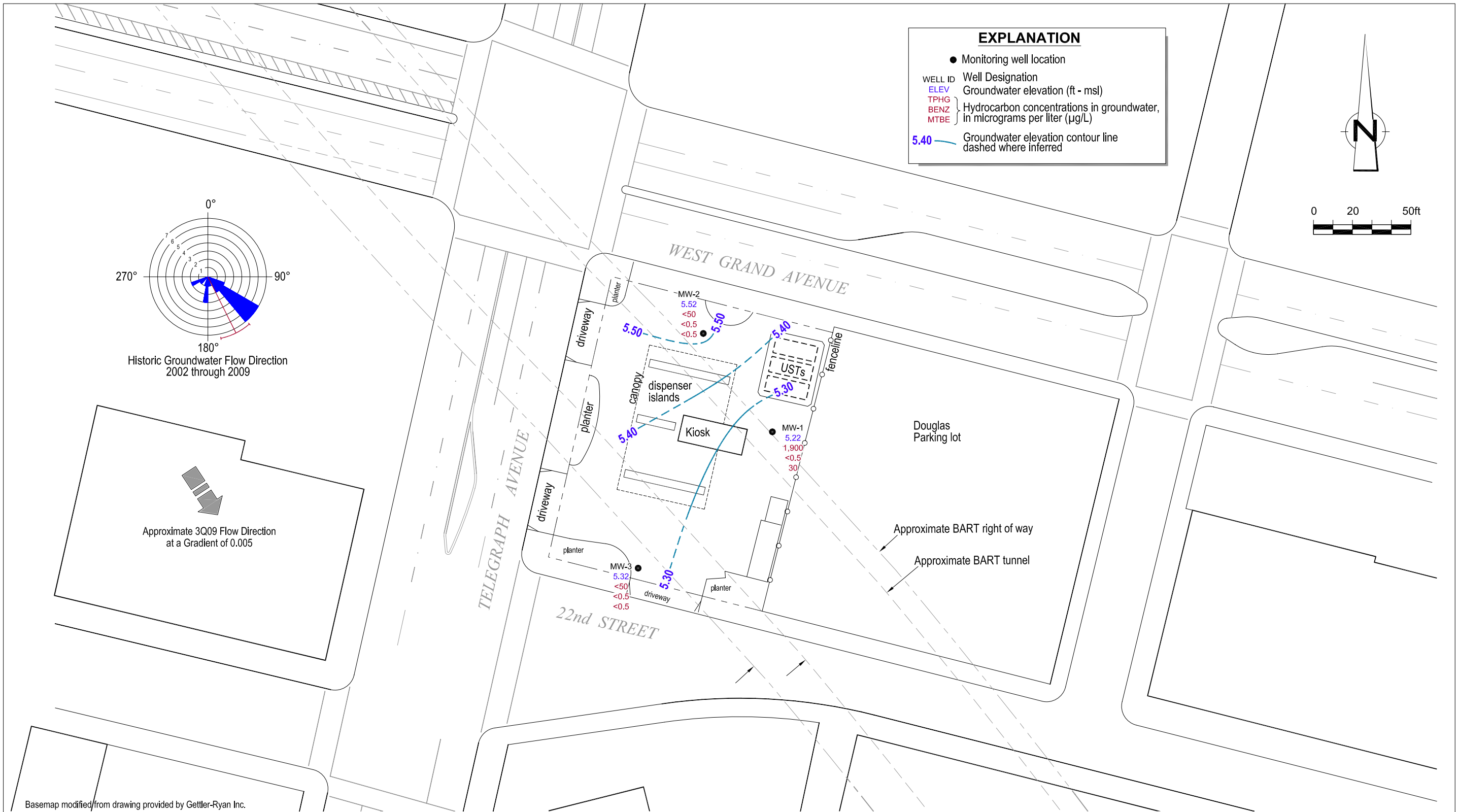


Figure 2  
 GROUNDWATER ELEVATION AND HYDROCARBON CONCENTRATION MAP  
 CHEVRON SERVICE STATION 9-3600  
 2200 TELEGRAPH AVENUE  
 Oakland, California  
 July 23, 2009



## TABLES

**GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS**  
**CHEVRON SERVICE STATION 9-3600**  
**2200 TELEGRAPH AVENUE, OAKLAND, CALIFORNIA**

<b>WELL ID/ DATE</b>	<b>TOC* (ft.)</b>	<b>DTW (ft.)</b>	<b>GWE (ft.)</b>	<b>TPH-G (µg/L)</b>	<b>B (µg/L)</b>	<b>T (µg/L)</b>	<b>E (µg/L)</b>	<b>X (µg/L)</b>	<b>MTBE (µg/L)</b>
<b>MW-1</b>									
04/05/02 <sup>1</sup>	17.07	11.68	5.39	2,000	5.0	<1.0	14	8.4	310/370 <sup>2</sup>
07/01/02	17.07	12.01	5.06	2,000	8.9	<1.0	97	31	370/420 <sup>2</sup>
10/08/02	17.07	12.20	4.87	1,400	9.2	<10	75	20	440/360 <sup>2</sup>
01/11/03	17.07	11.13	5.94	1,600	7.1	0.51	53	13	280/270 <sup>2</sup>
04/01/03	17.07	11.53	5.54	1,800	5.2	0.6	25	9.1	210/210 <sup>2</sup>
07/01/03 <sup>3</sup>	17.07	11.95	5.12	2,000	4	<0.5	31	12	170
10/02/03 <sup>3</sup>	17.07	12.25	4.82	480	<5	<5	<5	<5	9,800
01/05/04 <sup>3</sup>	17.07	11.05	6.02	1,700	3	<0.5	27	4	140
04/05/04 <sup>3</sup>	17.07	11.63	5.44	1,500	2	<0.5	21	0.6	120
07/01/04 <sup>3</sup>	17.07	12.08	4.99	1,500	1	<0.5	3	<0.5	130
10/05/04 <sup>3</sup>	17.07	12.21	4.86	1,400	<0.5	<0.5	1	0.5	130
01/04/05 <sup>3</sup>	17.07	11.15	5.92	1,500	<0.5	<0.5	<0.5	<0.5	<0.5
04/14/05 <sup>3</sup>	17.07	11.20	5.87	2,100	<0.5	<0.5	4	0.5	61
07/08/05 <sup>3</sup>	17.07	11.38	5.69	1,800	<0.5	<0.5	0.8	<0.5	71
10/27/05 <sup>3</sup>	17.07	12.24	4.83	800	<0.5	<0.5	<0.5	<0.5	76
01/12/06 <sup>3</sup>	17.07	11.10	5.97	1,600	<0.5	<0.5	4	<0.5	47
04/13/06 <sup>3</sup>	17.07	10.81	6.26	1,500	<0.5	<0.5	1	<0.5	36
07/13/06 <sup>3</sup>	17.07	11.18	5.89	990	<0.5	<0.5	<0.5	<0.5	44
10/16/06 <sup>3</sup>	17.07	12.18	4.89	780	<0.5	<0.5	<0.5	<0.5	59
01/20/07 <sup>3</sup>	17.07	11.91	5.16	890	<0.5	<0.5	<0.5	<0.5	47
04/11/07 <sup>3</sup>	17.07	11.87	5.20	1,900	<0.5	<0.5	4	<0.5	39
07/27/07 <sup>3</sup>	17.07	11.91	5.16	1,500	<0.5	<0.5	0.6	<0.5	56
10/22/07 <sup>3</sup>	17.07	-- <sup>4</sup>	--	610	<0.5	<0.5	<0.5	<0.5	65
11/26/07	17.07	11.96	5.11	--	--	--	--	--	--
01/21/08 <sup>3</sup>	17.07	11.78	5.29	1,100	<0.5	<0.5	0.8	<0.5	48
04/04/08 <sup>3</sup>	17.07	11.83	5.24	1,600	<0.5	<0.5	<0.5	<0.5	53
07/21/08 <sup>3</sup>	17.07	12.10	4.97	950	<0.5	<0.5	<0.5	<0.5	72
10/09/08 <sup>3</sup>	17.07	12.17	4.90	960	<0.5	<0.5	<0.5	<0.5	59
01/21/09 <sup>3</sup>	17.07	12.15	4.92	840	<0.5	<0.5	<0.5	<0.5	31
04/29/09	17.07	11.68	5.39	1,800	<0.5	<0.5	3	<0.5	25
<b>07/23/09<sup>3</sup></b>	<b>17.07</b>	<b>11.85</b>	<b>5.22</b>	<b>1,900</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>30</b>
<b>MW-2</b>									
04/05/02 <sup>1</sup>	16.82	11.17	5.65	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<2 <sup>2</sup>
07/01/02	16.82	11.36	5.46	<50	<0.50	0.57	0.52	<1.5	<2.5/<2 <sup>2</sup>



**GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS**  
**CHEVRON SERVICE STATION 9-3600**  
**2200 TELEGRAPH AVENUE, OAKLAND, CALIFORNIA**

<b>WELL ID/ DATE</b>	<b>TOC* (ft.)</b>	<b>DTW (ft.)</b>	<b>GWE (ft.)</b>	<b>TPH-G (µg/L)</b>	<b>B (µg/L)</b>	<b>T (µg/L)</b>	<b>E (µg/L)</b>	<b>X (µg/L)</b>	<b>MTBE (µg/L)</b>
<b>MW-2 (cont)</b>									
10/08/02	16.82	11.57	5.25	<100	<2.0	<2.0	<2.0	<5.0	<10/<2 <sup>2</sup>
01/11/03	16.82	10.94	5.88	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<2 <sup>2</sup>
04/01/03	16.82	11.03	5.79	<50	<0.5	<0.5	<0.5	<1.5	<2.5/<0.5 <sup>2</sup>
07/01/03 <sup>3</sup>	16.82	11.30	5.52	<50	<0.5	<0.5	<0.5	<0.5	<0.5
10/02/03 <sup>3</sup>	16.82	11.63	5.19	<50	<0.5	<0.5	<0.5	<0.5	<0.5
01/05/04 <sup>3</sup>	16.82	10.82	6.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/05/04 <sup>3</sup>	16.82	11.21	5.61	<50	<0.5	<0.5	<0.5	<0.5	<0.5
07/01/04 <sup>3</sup>	16.82	11.46	5.36	<50	<0.5	<0.5	<0.5	<0.5	<0.5
10/05/04 <sup>3</sup>	16.82	11.57	5.25	<50	<0.5	<0.5	<0.5	<0.5	<0.5
01/04/05 <sup>3</sup>	16.82	10.87	5.95	<50	0.5	<0.5	8	0.9	87
04/14/05 <sup>3</sup>	16.82	10.72	6.10	<50	<0.5	<0.5	<0.5	<0.5	<0.5
07/08/05 <sup>3</sup>	16.82	11.16	5.66	<50	<0.5	<0.5	<0.5	<0.5	<0.5
10/27/05 <sup>3</sup>	16.82	11.59	5.23	<50	<0.5	<0.5	<0.5	<0.5	<0.5
01/12/06 <sup>3</sup>	16.82	10.68	6.14	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/13/06 <sup>3</sup>	16.82	10.37	6.45	<50	<0.5	<0.5	<0.5	<0.5	<0.5
07/13/06 <sup>3</sup>	16.82	10.68	6.14	<50	<0.5	<0.5	<0.5	<0.5	<0.5
10/16/06 <sup>3</sup>	16.82	11.48	5.34	<50	<0.5	<0.5	<0.5	<0.5	<0.5
01/20/07 <sup>3</sup>	16.82	11.27	5.55	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/11/07 <sup>3</sup>	16.82	11.20	5.62	<50	<0.5	<0.5	<0.5	<0.5	<0.5
07/27/07 <sup>3</sup>	16.82	11.27	5.55	<50	<0.5	<0.5	<0.5	<0.5	<0.5
10/22/07 <sup>3</sup>	16.82	-- <sup>4</sup>	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
11/26/07	16.82	11.31	5.51	--	--	--	--	--	--
01/21/08 <sup>3</sup>	16.82	11.08	5.74	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/04/08 <sup>3</sup>	16.82	11.12	5.70	<50	<0.5	<0.5	<0.5	<0.5	<0.5
07/21/08 <sup>3</sup>	16.82	11.56	5.26	<50	<0.5	<0.5	<0.5	<0.5	<0.5
10/09/08 <sup>3</sup>	16.82	11.73	5.09	<50	<0.5	<0.5	<0.5	<0.5	<0.5
01/21/09 <sup>3</sup>	16.82	11.55	5.27	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/29/09	16.82	11.06	5.76	<50	<0.5	<0.5	<0.5	<0.5	<0.5
<b>07/23/09<sup>3</sup></b>	<b>16.82</b>	<b>11.30</b>	<b>5.52</b>	<b>&lt;50</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>
<b>MW-3</b>									
04/05/02 <sup>1</sup>	16.52	11.29	5.23	<50	<0.50	0.59	<0.50	<1.5	<2.5/<2 <sup>2</sup>
07/01/02	16.52	11.55	4.97	<50	<0.50	0.60	<0.50	<1.5	<2.5/<2 <sup>2</sup>
10/08/02	16.52	11.62	4.90	<100	<2.0	<2.0	<2.0	<5.0	<10/<2 <sup>2</sup>
01/11/03	16.52	11.09	5.43	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<2 <sup>2</sup>

**GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS**  
**CHEVRON SERVICE STATION 9-3600**  
**2200 TELEGRAPH AVENUE, OAKLAND, CALIFORNIA**

<b>WELL ID/ DATE</b>	<b>TOC* (ft.)</b>	<b>DTW (ft.)</b>	<b>GWE (ft.)</b>	<b>TPH-G (µg/L)</b>	<b>B (µg/L)</b>	<b>T (µg/L)</b>	<b>E (µg/L)</b>	<b>X (µg/L)</b>	<b>MTBE (µg/L)</b>
<b>MW-3 (cont)</b>									
04/01/03	16.52	11.25	5.27	<50	<0.5	<0.5	<0.5	<1.5	<2.5/<0.5 <sup>2</sup>
07/01/03 <sup>3</sup>	16.52	11.42	5.10	<50	<0.5	<0.5	<0.5	<0.5	2
10/02/03 <sup>3</sup>	16.52	11.74	4.78	<50	<0.5	<0.5	<0.5	<0.5	<0.5
01/05/04 <sup>3</sup>	16.52	11.06	5.46	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/05/04 <sup>3</sup>	16.52	11.40	5.12	<50	<0.5	<0.5	<0.5	<0.5	0.6
07/01/04 <sup>3</sup>	16.52	11.58	4.94	<50	<0.5	<0.5	<0.5	<0.5	0.8
10/05/04 <sup>3</sup>	16.52	11.60	4.92	<50	<0.5	<0.5	<0.5	<0.5	<0.5
01/04/05 <sup>3</sup>	16.52	10.95	5.57	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/14/05 <sup>3</sup>	16.52	11.10	5.42	<50	<0.5	<0.5	<0.5	<0.5	<0.5
07/08/05 <sup>3</sup>	16.52	11.29	5.23	<50	<0.5	<0.5	<0.5	<0.5	<0.5
10/27/05 <sup>3</sup>	16.52	11.68	4.84	<50	<0.5	<0.5	<0.5	<0.5	<0.5
01/12/06 <sup>3</sup>	16.52	10.83	5.69	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/13/06 <sup>3</sup>	16.52	10.65	5.87	<50	<0.5	<0.5	<0.5	<0.5	<0.5
07/13/06 <sup>3</sup>	16.52	11.03	5.49	<50	<0.5	<0.5	<0.5	<0.5	<0.5
10/16/06 <sup>3</sup>	16.52	11.46	5.06	<50	<0.5	<0.5	<0.5	<0.5	<0.5
01/20/07 <sup>3</sup>	16.52	11.39	5.13	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/11/07 <sup>3</sup>	16.52	11.27	5.25	<50	<0.5	<0.5	<0.5	<0.5	<0.5
07/27/07 <sup>3</sup>	16.52	11.38	5.14	<50	<0.5	<0.5	<0.5	<0.5	<0.5
10/22/07 <sup>3</sup>	16.52	-- <sup>4</sup>	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
11/26/07	16.52	11.35	5.17	--	--	--	--	--	--
01/21/08 <sup>3</sup>	16.52	11.16	5.36	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/04/08 <sup>3</sup>	16.52	11.15	5.37	<50	<0.5	<0.5	<0.5	<0.5	<0.5
07/21/08 <sup>3</sup>	16.52	11.38	5.14	<50	<0.5	<0.5	<0.5	<0.5	<0.5
10/09/08 <sup>3</sup>	16.52	11.49	5.03	<50	<0.5	<0.5	<0.5	<0.5	<0.5
01/21/09 <sup>3</sup>	16.52	11.52	5.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/29/09	16.52	11.10	5.42	<50	<0.5	<0.5	<0.5	<0.5	<0.5
<b>07/23/09<sup>3</sup></b>	<b>16.52</b>	<b>11.20</b>	<b>5.32</b>	<b>&lt;50</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>
<b>TRIP BLANK</b>									
<b>QA</b>									
04/05/02	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
07/01/02	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
10/08/02	--	--	--	<100	<2.0	<2.0	<2.0	<5.0	<10
01/11/03	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
04/01/03	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5

**GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS**  
**CHEVRON SERVICE STATION 9-3600**  
**2200 TELEGRAPH AVENUE, OAKLAND, CALIFORNIA**

<b>WELL ID/ DATE</b>	<b>TOC* (ft.)</b>	<b>DTW (ft.)</b>	<b>GWE (ft.)</b>	<b>TPH-G (µg/L)</b>	<b>B (µg/L)</b>	<b>T (µg/L)</b>	<b>E (µg/L)</b>	<b>X (µg/L)</b>	<b>MTBE (µg/L)</b>
<b>QA (cont)</b>									
07/01/03 <sup>3</sup>	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
10/02/03 <sup>3</sup>	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
01/05/04 <sup>3</sup>	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/05/04 <sup>3</sup>	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
07/01/04 <sup>3</sup>	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
10/05/04 <sup>3</sup>	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
01/04/05 <sup>3</sup>	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/14/05 <sup>3</sup>	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
07/08/05 <sup>3</sup>	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
10/27/05 <sup>3</sup>	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
01/12/06 <sup>3</sup>	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/13/06 <sup>3</sup>	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
07/13/06 <sup>3</sup>	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
10/16/06 <sup>3</sup>	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
01/20/07 <sup>3</sup>	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/11/07 <sup>3</sup>	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
07/27/07 <sup>3</sup>	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
10/22/07 <sup>3</sup>	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
01/21/08 <sup>3</sup>	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/04/08 <sup>3</sup>	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
07/21/08 <sup>3</sup>	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
10/09/08 <sup>3</sup>	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
01/21/09 <sup>3</sup>	--	--	--	<50 <sup>5</sup>	<0.5	<0.5	<0.5	<0.5	<0.5
04/29/09	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
<b>07/23/09<sup>3</sup></b>	--	--	--	<b>&lt;50</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>

**GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS  
CHEVRON SERVICE STATION 9-3600  
2200 TELEGRAPH AVENUE, OAKLAND, CALIFORNIA**

<i>WELL ID/ DATE</i>	<i>TOC* (ft.)</i>	<i>DTW (ft.)</i>	<i>GWE (ft.)</i>	<i>TPH-G (µg/L)</i>	<i>B (µg/L)</i>	<i>T (µg/L)</i>	<i>E (µg/L)</i>	<i>X (µg/L)</i>	<i>MTBE (µg/L)</i>
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**EXPLANATIONS:**

TOC = Top of Casing

(ft.) = Feet

DTW = Depth to Water

GWE = Groundwater Elevation

TPH-G = Total Petroleum Hydrocarbons as Gasoline

B = Benzene

T = Toluene

E = Ethylbenzene

X = Xylenes

MTBE = Methyl Tertiary Butyl Ether

(µg/L) = Micrograms per liter

-- = Not Measured/Not Analyzed

QA = Quality Assurance/Trip Blank

\* TOC elevations were surveyed on April 17, 2002, by Morrow Surveying. The elevations are based on a City of Oakland Benchmark No. 37JC, (Benchmark Elevation = 17.68 Feet).

1 Well development performed.

2 MTBE by EPA Method 8260.

3 BTEX and MTBE by EPA Method 8260.

4 DTW measurements were not recorded correctly.

5 Laboratory report indicates the original analysis was performed on an instrument where the ending calibration standard failed the method criteria. The sample was originally analyzed approximately 30 minutes after the LCS/LCSD. The LCS/LCSD showed good GRO recovery and the surrogate recovery for this sample was 85%.

The sample was reanalyzed from a vial with headspace since only 1 vial was submitted. The results for the original and the reanalysis were similar.

The reanalysis was reported.

**GROUNDWATER ANALYTICAL RESULTS - OXYGENATE COMPOUNDS**  
**CHEVRON SERVICE STATION 9-3600**  
**2200 TELEGRAPH AVENUE, OAKLAND, CALIFORNIA**

<b>WELL ID</b>	<b>DATE</b>	<b>ETHANOL (µg/L)</b>	<b>TBA (µg/L)</b>	<b>MTBE (µg/L)</b>	<b>DIPE (µg/L)</b>	<b>ETBE (µg/L)</b>	<b>TAME (µg/L)</b>
<b>MW-1</b>	04/05/02	--	200	370	<2	<2	10
	07/01/02	--	190	420	<2	<2	9
	10/08/02	--	110	360	<2	<2	8
	01/11/03	--	<100	270	<2	<2	7
	04/01/03	--	22	210	<0.5	<0.5	5
	07/01/03	<50	26	170	<0.5	<0.5	5
	10/02/03	<500	2,600	9,800	<5	<5	6
	01/05/04	<50	21	140	<0.5	<0.5	3
	04/05/04	<50	17	120	<0.5	<0.5	3
	07/01/04	<50	13	130	<0.5	<0.5	2
	10/05/04	<50	14	130	<0.5	<0.5	2
	01/04/05	<50	<5	<0.5	<0.5	<0.5	<0.5
	04/14/05	<50	15	61	<0.5	<0.5	1
	07/08/05	<50	15	71	<0.5	<0.5	1
	10/27/05	<50	10	76	<0.5	<0.5	1
	01/12/06	<50	12	47	<0.5	<0.5	<0.5
	04/13/06	<50	8	36	<0.5	<0.5	0.6
	07/13/06	<50	7	44	<0.5	<0.5	0.7
	10/16/06	<50	6	59	<0.5	<0.5	1
	01/20/07	<50	8	47	<0.5	<0.5	0.8
	04/11/07	<50	9	39	<0.5	<0.5	0.7
	07/27/07	<50	8	56	<0.5	<0.5	0.8
	10/22/07	<50	5	65	<0.5	<0.5	0.7
	01/21/08	<50	5	48	<0.5	<0.5	0.7
	04/04/08	<50	6	53	<0.5	<0.5	0.6
	07/21/08	<50	11	72	<0.5	<0.5	0.7
10/09/08	<50	5	59	<0.5	<0.5	0.5	
01/21/09	<50	5	31	<0.5	<0.5	0.5	
04/29/09	<50	5	25	<0.5	<0.5	<0.5	
07/23/09	<50	4 J	30	<0.5	<0.5	<0.5	
<b>MW-2</b>	04/05/02	--	<100	<2	<2	<2	<2
	07/01/02	--	<100	<2	<2	<2	<2
	10/08/02	--	<100	<2	<2	<2	<2
	01/11/03	--	<100	<2	<2	<2	<2
	04/01/03	<50	<5	<0.5	<0.5	<0.5	<0.5
	07/01/03	<50	<5	<0.5	<0.5	<0.5	<0.5

**GROUNDWATER ANALYTICAL RESULTS - OXYGENATE COMPOUNDS**  
**CHEVRON SERVICE STATION 9-3600**  
**2200 TELEGRAPH AVENUE, OAKLAND, CALIFORNIA**

<b>WELL ID</b>	<b>DATE</b>	<b>ETHANOL (µg/L)</b>	<b>TBA (µg/L)</b>	<b>MTBE (µg/L)</b>	<b>DIPE (µg/L)</b>	<b>ETBE (µg/L)</b>	<b>TAME (µg/L)</b>
<b>MW-2 (cont)</b>	10/02/03	<50	<5	<0.5	<0.5	<0.5	<0.5
	01/05/04	<50	<5	<0.5	<0.5	<0.5	<0.5
	04/05/04	<50	<5	<0.5	<0.5	<0.5	<0.5
	07/01/04	<50	<5	<0.5	<0.5	<0.5	<0.5
	10/05/04	<50	<5	<0.5	<0.5	<0.5	<0.5
	01/04/05	<50	14	87	<0.5	<0.5	2
	04/14/05	<50	<5	<0.5	<0.5	<0.5	<0.5
	07/08/05	<50	<5	<0.5	<0.5	<0.5	<0.5
	10/27/05	<50	<5	<0.5	<0.5	<0.5	<0.5
	01/12/06	<50	<5	<0.5	<0.5	<0.5	<0.5
	04/13/06	<50	<5	<0.5	<0.5	<0.5	<0.5
	07/13/06	<50	<5	<0.5	<0.5	<0.5	<0.5
	10/16/06	<50	<5	<0.5	<0.5	<0.5	<0.5
	01/20/07	<50	<2	<0.5	<0.5	<0.5	<0.5
	04/11/07	<50	<2	<0.5	<0.5	<0.5	<0.5
	07/25/07	<50	<2	<0.5	<0.5	<0.5	<0.5
	10/22/07	<50	<2	<0.5	<0.5	<0.5	<0.5
	01/21/08	<50	<2	<0.5	<0.5	<0.5	<0.5
	04/04/08	<50	<2	<0.5	<0.5	<0.5	<0.5
	07/21/08	<50	<2	<0.5	<0.5	<0.5	<0.5
10/09/08	<50	<2	<0.5	<0.5	<0.5	<0.5	
01/21/09	<50	<2	<0.5	<0.5	<0.5	<0.5	
04/29/09	<50	<2	<0.5	<0.5	<0.5	<0.5	
<b>07/23/09</b>	<b>&lt;50</b>	<b>&lt;2</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>
<b>MW-3</b>	04/05/02	--	<100	<2	<2	<2	<2
	07/01/02	--	<100	<2	<2	<2	<2
	10/08/02	--	<100	<2	<2	<2	<2
	01/11/03	--	<100	<2	<2	<2	<2
	04/01/03	--	<5	<0.5	<0.5	<0.5	<0.5
	07/01/03	<50	<5	2	<0.5	<0.5	<0.5
	10/02/03	<50	<5	<0.5	<0.5	<0.5	<0.5
	01/05/04	<50	<5	<0.5	<0.5	<0.5	<0.5
	04/05/04	<50	<5	0.6	<0.5	<0.5	<0.5
	07/01/04	<50	<5	0.8	<0.5	<0.5	<0.5
	10/05/04	<50	<5	<0.5	<0.5	<0.5	<0.5
	01/04/05	<50	<5	<0.5	<0.5	<0.5	<0.5

**GROUNDWATER ANALYTICAL RESULTS - OXYGENATE COMPOUNDS  
CHEVRON SERVICE STATION 9-3600  
2200 TELEGRAPH AVENUE, OAKLAND, CALIFORNIA**

<b>WELL ID</b>	<b>DATE</b>	<b>ETHANOL (µg/L)</b>	<b>TBA (µg/L)</b>	<b>MTBE (µg/L)</b>	<b>DIPE (µg/L)</b>	<b>ETBE (µg/L)</b>	<b>TAME (µg/L)</b>
<b>MW-3 (cont)</b>	04/14/05	<50	<5	<0.5	<0.5	<0.5	<0.5
	07/08/05	<50	<5	<0.5	<0.5	<0.5	<0.5
	10/27/05	<50	<5	<0.5	<0.5	<0.5	<0.5
	01/12/06	<50	<5	<0.5	<0.5	<0.5	<0.5
	04/13/06	<50	<5	<0.5	<0.5	<0.5	<0.5
	07/13/06	<50	<5	<0.5	<0.5	<0.5	<0.5
	10/16/06	<50	<5	<0.5	<0.5	<0.5	<0.5
	01/20/07	<50	<2	<0.5	<0.5	<0.5	<0.5
	04/11/07	<50	<2	<0.5	<0.5	<0.5	<0.5
	07/27/07	<50	<2	<0.5	<0.5	<0.5	<0.5
	10/22/07	<50	<2	<0.5	<0.5	<0.5	<0.5
	01/21/08	<50	<2	<0.5	<0.5	<0.5	<0.5
	04/04/08	<50	<2	<0.5	<0.5	<0.5	<0.5
	07/21/08	<50	<2	<0.5	<0.5	<0.5	<0.5
	10/09/08	<50	<2	<0.5	<0.5	<0.5	<0.5
	01/21/09	<50	<2	<0.5	<0.5	<0.5	<0.5
04/29/09	<50	<2	<0.5	<0.5	<0.5	<0.5	
<b>07/23/09</b>	<b>&lt;50</b>	<b>&lt;2</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>

**EXPLANATIONS:**

TBA = t-Butyl alcohol  
 MTBE = Methyl Tertiary Butyl Ether  
 DIPE = di-Isopropyl ether  
 ETBE = Ethyl t-butyl ether  
 TAME = t-Amyl methyl ether  
 (µg/L) = Micrograms per liter  
 -- = Not Analyzed

**ANALYTICAL METHOD:**

EPA Method 8260 for Oxygenate Compounds

ATTACHMENT A

BLAINE TECH'S JULY 24, 2009 *THIRD QUARTER 2009 MONITORING* REPORT





July 24, 2009

Chevron Environmental Management Company  
Aaron Costa  
6111 Bollinger Canyon Rd.  
San Ramon, CA 94583

Third Quarter 2009 Monitoring at  
Chevron Service Station 93600  
2200 Telgraph Ave.  
Oakland, CA

Monitoring performed on July 23, 2009

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**Blaine Tech Services, Inc. Groundwater Monitoring Event 090723-JO3**

This submission covers the routine monitoring of groundwater wells conducted on July 23, 2009 at this location. Three monitoring wells were measured for depth to groundwater (DTW). Three monitoring wells were sampled. All sampling activities were performed in accordance with local, state and federal guidelines.

Water levels measurements were collected using an electronic slope indicator or an electronic interface probe. All sampled wells were purged of three case volumes, depending on well recovery, or until water temperature, pH and conductivity stabilized. Purging was accomplished using electric submersible pumps, positive air-displacement pumps or stainless steel, Teflon or disposable bailers. Subsequent sample collection and sample handling was performed in accordance with EPA protocols using disposable bailers. Alternately, where applicable, wells were sampled utilizing no-purge methodology. All reused equipment was decontaminated in an integrated stainless steel sink with de-ionized water supplied Hotsy pressure washer and Liquinox or equivalent.

Third Quarter Groundwater Monitoring at Chevron 93600, 2200 Telgraph Ave., Oakland, CA

SAN JOSE

SACRAMENTO

LOS ANGELES

SAN DIEGO

1680 ROGERS AVENUE

SAN JOSE, CA 95112-1105

(408) 573-0555

FAX (408) 573-7771

LIC. 746684

[www.blainetech.com](http://www.blainetech.com)

Samples were delivered under chain-of-custody to Lancaster Laboratories of Lancaster, Pennsylvania, for analysis. Monitoring well purgewater and equipment rinsate water was collected and transported under bill-of-lading to IWM facilities of San Jose, California.

Enclosed documentation from this event includes copies of the Well Gauging Sheet, Well Monitoring Data Sheets, and Chain-of-Custody.

Blaine Tech Services, Inc.'s activities at this site consisted of objective data and sample collection only. No interpretation of analytical results, defining of hydrogeologic conditions or formulation of recommendations was performed.

Please call if you have any questions.

Sincerely,



Pete Cornish  
Blaine Tech Services, Inc.  
Project Manager

attachments: SOP  
Well Gauging Sheet  
Individual Well Monitoring Data Sheets  
Chain of Custody  
Wellhead Inspection Form  
Bill of Lading  
Calibration Log

cc: CRA  
Attn: Charlotte Evans  
5900 Hollis St. Suite A  
Emeryville, CA 94608

Third Quarter Groundwater Monitoring at Chevron 93600, 2200 Telgraph Ave., Oakland, CA

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# BLAINE TECH SERVICES, INC. METHODS AND PROCEDURES FOR THE ROUTINE MONITORING OF GROUNDWATER WELLS AT CHEVRON SITES

Blaine Tech Services, Inc. performs environmental sampling and documentation as an independent third party. We specialize in groundwater monitoring assignments and intentionally limit the scope of our services to those centered on the generation of objective information.

To avoid conflicts of interest, Blaine Tech Services, Inc. personnel do not evaluate or interpret the information we collect. As a state licensed contractor (C-57 well drilling –water – 746684) performing strictly technical services, we do not make any professional recommendations and perform no consulting of any kind.

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## SAMPLING PROCEDURES OVERVIEW

### SAFETY

All groundwater monitoring assignments performed for Chevron comply with Chevron's safety guidelines, 29 CFR 1910.120 and SB-198 Injury and Illness Prevention Program (IIPP). All Field Technicians receive the full 40-hour 29CFR 1910.120 OSHA SARA HAZWOPER course, medical clearance and on-the-job training prior to commencing any work on any Chevron site.

### INSPECTION AND GAUGING

Wells are inspected prior to evacuation and sampling. The condition of the wellhead is checked and noted according to a wellhead inspection checklist.

Standard measurements include the depth to water (DTW) and the total well depth (TD) obtained with industry standard electronic water level indicators that are graduated in increments of hundredths of a foot.

The water in each well is inspected for the presence of immiscibles. When free product is suspected, its presence is confirmed using an electronic interface probe (e.g. GeoTech). No samples are collected from a well containing over two-hundredths of a foot (0.02') of product.

### EVACUATION

Depth to water measurements are collected by our personnel prior to purging and minimum purge volumes are calculated anew for each well based on the height of the water column and the diameter of the well. Expected purge volumes are never less than three case volumes and are set at no less than four case volumes in some jurisdictions.

Well purging devices are selected on the basis of the well diameter and the total volume to be

evacuated. In most cases the well will be purged using an electric submersible pump (i.e. Grundfos) suspended near (but not touching) the bottom of the well.

## PARAMETER STABILIZATION

Well purging completion standards include minimum purge volumes, but additionally require stabilization of specific groundwater parameters prior to sample collection. Typical groundwater parameters used to measure stability are electrical conductivity, pH, and temperature. Instrument readings are obtained at regular intervals during the evacuation process (no less than once per case volume).

Stabilization standards for routine quarterly monitoring of fuel sites include the following: Temperature is considered to have stabilized when successive readings do not fluctuate more than +/- 1 degree Celsius. Electrical conductivity is considered stable when successive readings are within 10%. pH is considered to be stable when successive readings remain constant or vary no more than 0.2 of a pH unit.

## DEWATERED WELLS

Normal evacuation removes no less than three case volumes of water from the well. However, less water may be removed in cases where the well dewateres and does not immediately recharge.

## MEASURING RECHARGE

Upon completion of well purging, a depth to water measurement is collected and notated to ensure that the well has recharged to within 80% of its static, pre-purge level prior to sampling.

Wells that do not immediately show 80% recharge or dewatered wells will be allowed approximately 2 hours to recharge prior to sampling or will be sampled at site departure. All wells requiring off-site traffic control in the public right-of-way, the 80% recharge rule may be disregarded in the interests of Health and Safety. The sample may be collected as soon as there is sufficient water. The water level at time of sampling will be noted.

## PURGEWATER CONTAINMENT

All non-hazardous purgewater evacuated from each groundwater monitoring well is captured and contained in on-board storage tanks on the Sampling Vehicle and/or special water hauling trailers. Effluent from the decontamination of reusable apparatus (sounders, electric pumps and hoses etc.), consisting of groundwater combined with deionized water and non-phosphate soap, is also captured and pumped into effluent tanks.

Non-hazardous purgewater is transported under standard Bill of Lading documentation to a Blaine Tech Services, Inc. facility before being transported to a Chevron approved disposal facility.

## SAMPLE COLLECTION DEVICES

All samples are collected using disposable bailers.

## SAMPLE CONTAINERS

Sample material is decanted directly from the sampling bailer into sample containers provided by the laboratory that will analyze the samples. The transfer of sample material from the bailer to the sample container conforms to specifications contained in the USEPA T.E.G.D. The type of sample container, material of construction, method of closure and filling requirements are specific to the intended analysis. Chemicals needed to preserve the sample material are commonly placed inside the sample containers by the laboratory or glassware vendor prior to delivery of the bottle to our personnel. The laboratory sets the number of replicate containers.

## TRIP BLANKS

Trip Blanks, if requested, are taken to the site and kept inside the sample cooler for the duration of the event. They are turned over to the laboratory for analysis with the samples from that site.

## DUPLICATES

Duplicates, if requested, may be collected at a site. The Duplicate sample is collected, typically from the well containing the most measurable contaminants. The Duplicate sample is labeled the same as the original.

## SAMPLE STORAGE

All sample containers are promptly placed in food grade ice chests for storage in the field and transport (direct or via our facility) to the designated analytical laboratory. These ice chests contain quantities of restaurant grade ice as a refrigerant material. The samples are maintained in either an ice chest or a refrigerator until relinquished into the custody of the laboratory or laboratory courier.

## DOCUMENTATION CONVENTIONS

A label must be affixed to all sample containers. In most cases these labels are generated by our office personnel and are partially preprinted. Labels can also be hand written by our field personnel. The site is identified with the store number and site address, as is the particular groundwater well from which the sample is drawn (e.g. MW-1, MW-2, S-1 etc.). The time and date of sample collection along with the initials of the person who collects the sample are handwritten onto the label.

Chain of Custody records are created using client specific preprinted forms following USEPA specifications.

Bill of Lading records are contemporaneous records created in the field at the site where the non-hazardous purgewater is generated. Field Technicians use preprinted Bill of Lading forms.

## DECONTAMINATION

All equipment is brought to the site in clean and serviceable condition and is cleaned after use in each well and before subsequent use in any other well. Equipment is decontaminated before leaving the site.

The primary decontamination device is a commercial steam cleaner. The steam cleaner is de-tuned to function as a hot pressure washer that is then operated with high quality deionized water that is produced at our facility and stored onboard our sampling vehicle. Cleaning is facilitated by the use of proprietary fixtures and devices included in the patented workstation (U.S. Patent 5,535,775) that is incorporated in each sampling vehicle. The steam cleaner is used to decon reels, pumps and bailers.

Any sensitive equipment or parts (i.e. Dissolved Oxygen sensor membrane, water level indicator, etc.) that cannot be washed using the high pressure water, will be sprayed with a non-phosphate soap and deionized water solution and rinsed with deionized water.

## DISSOLVED OXYGEN READINGS

Dissolved Oxygen readings are taken pre- and/or post-purge using YSI meters (e.g. YSI Model 550) or HACH field test kits.

The YSI meters are able to collect accurate in-situ readings. The probe allows downhole measurements to be taken from wells with diameters as small as two inches. The probe and reel is decontaminated between wells as described above. The meter is calibrated between wells as per the instructions in the operating manual. The probe is lowered into the water column and the reading is allowed to stabilize prior to collection.

## OXYIDATON REDUCTION POTENTIAL READINGS

All readings are obtained with either Corning or Myron-L meters (e.g. Corning ORP-65 or a Myron-L Ultrameter GP). The meter is cleaned between wells as described above. The meter is calibrated at the start of each day according to the instruction manual.

## FERROUS IRON MEASUREMENTS

All field measurements are collected at time of sampling with a HACH test kit.

## WELL GAUGING DATA

Project # 090723-S03 Date 7/23/09 Client Chewan

Site 2200 telegraph ave Oakland CA

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	Notes
MW-1	1046	2					11.85	20.10	↓	
MW-2	1035	2				11.30	20.06			
MW-3	1030	2				11.20	20.05	↓		

# CHEVRON WELL MONITORING DATA SHEET

Project #: <b>090723-503</b>	Station #: <b>9-3600</b>
Sampler: <b>SO</b>	Date: <b>7/23/09</b>
Weather: <b>Sunny</b>	Ambient Air Temperature: <b>70°</b>
Well I.D.: <b>MW-7</b>	Well Diameter: <b>(2)</b> 3 4 6 8 _____
Total Well Depth: <b>20.10</b>	Depth to Water: <b>11.85</b>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <b>(PVC)</b> Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: <b>13.5</b>	

Purge Method:  Bailer  Waterra  **Disposable Bailer**  Peristaltic  Extraction Pump  Electric Submersible  Other \_\_\_\_\_

Sampling Method:  Bailer  **Disposable Bailer**  Extraction Port  Dedicated Tubing  Other: \_\_\_\_\_

1.3 (Gals.) X 3 = 3.9 Gals.  
 I Case Volume      Specified Volumes      Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius <sup>2</sup> * 0.163

Time	Temp (°F)	pH	Cond. (mS or <u>µS</u> )	Turbidity (NTUs)	Gals. Removed	Observations
1130	68.1	6.73	987	307	1.3	brn/cloud
1132	68.1	6.78	718	421	3.6	↓
1135	68.2	6.79	899	581	3.9	

Did well dewater? Yes  No  Gallons actually evacuated: **3.9**

Sampling Date: **7/23/09** Sampling Time: **1140** Depth to Water: **12.39**

Sample I.D.: **MW-1** Laboratory: **(Lancaster)** Other \_\_\_\_\_

Analyzed for: TPH-G BTEX MTBE OXYS Other: **see col**

Duplicate I.D.: Analyzed for: TPH-G BTEX MTBE OXYS Other:

D.O. (if req'd): Pre-purge: \_\_\_\_\_ mg/L Post-purge: \_\_\_\_\_ mg/L

O.R.P. (if req'd): Pre-purge: \_\_\_\_\_ mV Post-purge: \_\_\_\_\_ mV



# CHEVRON WELL MONITORING DATA SHEET

Project #: <u>090723- J03</u>	Station #: <u>9-3600</u>
Sampler: <u>SO</u>	Date: <u>7/23/09</u>
Weather: <u>Sunny</u>	Ambient Air Temperature: <u>70°</u>
Well I.D.: <u>MW-2</u>	Well Diameter: <u>(2)</u> 3 4 6 8 _____
Total Well Depth: <u>20.06</u>	Depth to Water: <u>11.30</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>(PVC)</u> Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: <u>13.05</u>	

Purge Method: Disposable Bailer      Waterra      Disposable Bailer  
 Bailer      Peristaltic      Extraction Port  
 Positive Air Displacement      Extraction Pump      Dedicated Tubing  
 Electric Submersible      Other \_\_\_\_\_      Other: \_\_\_\_\_

1.4 (Gals.) X 3 = 4.2 Gals.  
 1 Case Volume      Specified Volumes      Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius <sup>2</sup> * 0.163

Time	Temp (°F)	pH	Cond. (mS or <u>µS</u> )	Turbidity (NTUs)	Gals. Removed	Observations
<u>1110</u>	<u>68.3</u>	<u>6.81</u>	<u>1150</u>	<u>196</u>	<u>1.4</u>	<u>cloudy</u>
<u>1112</u>	<u>68.2</u>	<u>6.80</u>	<u>1148</u>	<u>214</u>	<u>2.8</u>	<u>↓</u>
<u>1115</u>	<u>68.2</u>	<u>6.79</u>	<u>1144</u>	<u>281</u>	<u>4.2</u>	<u>↓</u>

Did well dewater?      Yes      (No)      Gallons actually evacuated: 4.2

Sampling Date: 7/23/09      Sampling Time: 1120      Depth to Water: 11.72

Sample I.D.: MW-2      Laboratory: (Lancaster)      Other \_\_\_\_\_

Analyzed for: TPH-G    BTEX    MTBE    OXYS    Other: see cor

Duplicate I.D.:      Analyzed for: TPH-G    BTEX    MTBE    OXYS    Other:

D.O. (if req'd):      Pre-purge: \_\_\_\_\_ mg/L      Post-purge: \_\_\_\_\_ mg/L

O.R.P. (if req'd):      Pre-purge: \_\_\_\_\_ mV      Post-purge: \_\_\_\_\_ mV

# CHEVRON WELL MONITORING DATA SHEET

Project #: <b>090723-503</b>	Station #: <b>9-3600</b>
Sampler: <b>SO</b>	Date: <b>7/23/09</b>
Weather: <b>Partly cloudy</b>	Ambient Air Temperature: <b>65° F</b>
Well I.D.: <b>MW-3</b>	Well Diameter: <b>(2)</b> 3 4 6 8 _____
Total Well Depth: <b>20.05</b>	Depth to Water: <b>11.20</b>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <b>(PVC)</b> Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: <b>12.97</b>	

Purge Method: Bailer Wattera Sampling Method: Bailer

Disposable Bailer Peristaltic Disposable Bailer

Positive Air Displacement Extraction Pump Extraction Port

Electric Submersible Other \_\_\_\_\_ Dedicated Tubing

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

1.4 (Gals.) X 3 = 4.2 Gals.

1 Case Volume      Specified Volumes      Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius <sup>2</sup> * 0.163

Time	Temp (°F)	pH	Cond. (mS or $\mu$ S)	Turbidity (NTUs)	Gals. Removed	Observations
1046	68.5	6.35	1292	137	1.4	cloudy
1048	68.5	6.39	1250	149	2.8	↓
1050	68.6	6.41	1237	157	4.2	

Did well dewater? Yes  **(No)** Gallons actually evacuated: **4.2**

Sampling Date: **7/23/09** Sampling Time: **1055** Depth to Water: **11.47**

Sample I.D.: **MW-3** Laboratory: **(Lancaster)** Other \_\_\_\_\_

Analyzed for: TPH-G BTEX MTBE OXYS Other: **See cor**

Duplicate I.D.: Analyzed for: TPH-G BTEX MTBE OXYS Other:

D.O. (if req'd): Pre-purge: mg/L Post-purge: mg/L

O.R.P. (if req'd): Pre-purge: mV Post-purge: mV

**CHAIN OF CUSTODY FORM**  
**Chevron Environmental Management Company ■ 6111 Bollinger Canyon Rd. ■ San Ramon, CA 94583**      **COC 1 of 1**

Chevron Site Number: 93600  
 Chevron Site Global ID: T0600161613  
 Chevron Site Address: 2200 Telegraph Ave.,  
Oakland, CA  
 Chevron PM: AARON COSTA  
 Chevron PM Phone No.: (925)543-2961  
 Retail and Terminal Business Unit (RTBU) Job  
 Construction/Retail Job

Chevron Consultant: CRA  
 Address: 5900 Hollis St. Suite A Emeryville,  
 CA Consultant Contact: Charlotte Evans  
 Consultant Phone No. 510-420-3351  
 Consultant Project No. 090723-803  
 Sampling Company: Blaine Tech Services  
 Sampled By (Print): J. Gratz  
 Sampler Signature: [Signature]

ANALYSES REQUIRED												Preservation Codes	
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>												H = HCL T= Thiosulfate N = HNO <sub>3</sub> B = NaOH S = H <sub>2</sub> SO <sub>4</sub> O = Other
EPA 8260B/GC/MS	TPH-G	BTEX	MTBE	OXYGENATES	HVOC								
EPA 8015B	GRO	DRO	ORO	HC SCREEN									
EPA 8021B	BTEX	MTBE											
EPA 6010	Ca, Fe, K, Mg, Mn, Na												
EPA 6010/7000	TITLE 22 METALS		TTL	STLC									
EPA 150.1	PH												
SM 2510B	SPECIFIC CONDUCTIVITY												
EPA 418.1	TRPH												
EPA 8260	ETHANOL												
EPA 8015	TPH-D												

Charge Code: **NWRTB-0093600-0-OML**  
 NWRTB 00SITE NUMBER-0- WBS  
**(WBS ELEMENTS:**  
 SITE ASSESSMENT: A1L    REMEDIATION IMPLEMENTATION: R5L  
 SITE MONITORING: OML    OPERATION MAINTENANCE & MONITORING: M1L  
**THIS IS A LEGAL DOCUMENT. ALL FIELDS MUST BE FILLED OUT CORRECTLY AND COMPLETELY.**

**Lancaster Laboratories**  
 Lancaster, PA  
 Lab Contact: Jill Parker  
 2425 New Holland Pike,  
 Lancaster, PA 17601  
 Phone No:  
 (717)656-2300

Other Lab	Temp. Blank Check Time	Temp.
	0700	10c
	1000	80c
	1200	80c
	1400	20c
	1600	25c

SAMPLE ID				Sample Time	# of Containers	Container Type	ANALYSES REQUIRED												Notes/Comments																			
Field Point Name	Matrix	Top Depth	Date (yymmdd)				EPA 8260B/GC/MS	TPH-G	BTEX	MTBE	OXYGENATES	HVOC	EPA 8015B	GRO	DRO	ORO	HC SCREEN	EPA 8021B		BTEX	MTBE	EPA 6010	Ca, Fe, K, Mg, Mn, Na	EPA 6010/7000	TITLE 22 METALS	TTL	STLC	EPA 150.1	PH	SM 2510B	SPECIFIC CONDUCTIVITY	EPA 418.1	TRPH	EPA 8260	ETHANOL	EPA 8015	TPH-D	
MW-1	W		090723	1040 1140	6	VOAS	X	X																														
MW-2	↓		↓	1120	↓	↓	X	X																														
MW-3	↓		↓	1055	↓	↓	X	X																														
QA	T		↓	1100	2	↓		X																														

Relinquished By: <u>[Signature]</u> Company: <u>BTS</u> Date/Time: <u>1600 7/23/09 1600</u>	Relinquished To: <u>[Signature]</u> Company: <u>(Sample custodian) BTS</u> Date/Time: <u>7/23/09 1600</u>	Turnaround Time: Standard <input checked="" type="checkbox"/> 24 Hours <input type="checkbox"/> 48 hours <input type="checkbox"/> 72 Hours <input type="checkbox"/> Other <input type="checkbox"/>
Relinquished By: _____    Company: _____    Date/Time: _____	Relinquished To: _____    Company: _____    Date/Time: _____	Sample Integrity: (Check by lab on arrival)
Relinquished By: _____    Company: _____    Date/Time: _____	Relinquished To: _____    Company: _____    Date/Time: _____	Intact: _____    On Ice: _____    Temp: _____    COC # _____

# WELLHEAD INSPECTION CHECKLIST

Client Chevron Date 7/23/09  
 Site Address 2200 Telegraph Ave Oakland CA  
 Job Number 090723-103 Technician JO

Well ID	Well Inspected - No Corrective Action Required	WELL IS SECURABLE BY DESIGN (12" or less)	WELL IS CLEARLY MARKED WITH THE WORDS "MONITORING WELL" (12" or less)	Water Bailed From Wellbox	Wellbox Components Cleaned	Cap Replaced	Lock Replaced	Other Action Taken (explain below)	Well Not Inspected (explain below)	Repair Order Submitted
MW-1		X	X					X		
MW-2	<del>X</del>	X	X					X		
MW-3	X									

NOTES: MW-1 1/2 Tabs Broken ! 1/2 Tabs Stripped.  
MW-2 2/2 Tabs Stripped.

CHEVRON-NORTHERN CALIFORNIA TYPE **A** BILL OF LADING

SOURCE RECORD **BILL OF LADING**

FOR NON-HAZARDOUS PURGEWATER RECOVERED FROM GROUNDWATER WELLS AT CHEVRON FACILITIES IN THE STATE OF CALIFORNIA. THE NON-HAZARDOUS PURGE- WATER WHICH HAS BEEN RECOVERED FROM GROUND- WATER WELLS IS COLLECTED BY THE CONTRACTOR, MADE UP INTO LOADS OF APPROPRIATE SIZE AND HAULED BY IWM TO THEIR FACILITY IN SAN JOSE, CALIFORNIA.

The contractor performing this work is BLAINE TECH SERVICES, INC. (BTS), 1680 Rogers Ave. San Jose CA (408)573-0555). Blaine Tech Services, Inc. is authorized by CHEVRON PRODUCTS COMPANY (CHEVRON) to recover, collect, apportion into loads, and haul the Non-Hazardous Well Purgewater that is drawn from wells at the CHEVRON facility indicated below and to deliver that purgewater to BTS. Transport routing of the Non-Hazardous Well Purgewater may be direct from one Chevron facility to BTS; from one Chevron facility to BTS via another Chevron facility; or any combination thereof. The Non-Hazardous Well Purgewater is and remains the property of CHEVRON.

This **Source Record BILL OF LADING** was initiated to cover the recovery of Non-Hazardous Well Purgewater from wells at the Chevron facility described below:

9-3600  
CHEVRON #

Arson Coster  
Chevron Engineer

2200 Telegraph Ave Oakland CA  
street number street name city state

WELL I.D.	GALS.	WELL I.D.	GALS.
MW-1	3.9		
MW-2	4.2		
MW-3	4.2		
/		/	
/		/	
/		/	
/		/	
/	12.3	/	
added equip.		any other	
rinse water /	1.0	adjustments /	

**TOTAL GALS. RECOVERED** 13.0

loaded onto BTS vehicle # 86

BTS event # 090723-803 time 1200 date 7 / 23 / 09  
signature [Signature]

\*\*\*\*\*

**REC'D AT** BTS time 1600 date 7 / 23 / 09  
unloaded by signature [Signature]



ATTACHMENT B

LANCASTER LABORATORIES' AUGUST 5, 2009 ANALYTICAL REPORT

**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

August 05, 2009

**SAMPLE GROUP**

The sample group for this submittal is 1154949. Samples arrived at the laboratory on Saturday, July 25, 2009. The PO# for this group is 0015040460 and the release number is COSTA.

<u>Client Description</u>	<u>Lancaster Labs Number</u>
MW-1-W-090723 NA Water	5732960
MW-2-W-090723 NA Water	5732961
MW-3-W-090723 NA Water	5732962
QA-T-090723 NA Water	5732963

**METHODOLOGY**

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

ELECTRONIC      Chevron c/o CRA  
COPY TO  
ELECTRONIC      CRA  
COPY TO

Attn: Report Contact

Attn: Charlotte Evans



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

Respectfully Submitted,



Tracy A. Cole  
Senior Specialist

**Lancaster Laboratories Sample No. WW 5732960**
**Group No. 1154949  
CA**
**MW-1-W-090723 NA Water  
Facility# 93600 BTST  
2200 Telegraph Ave-Oakland T0600161613 MW-1**

Collected: 07/23/2009 11:40 by JO

Account Number: 10991

Submitted: 07/25/2009 09:30

Chevron

Reported: 08/05/2009 at 13:54

6001 Bollinger Canyon Rd L4310

Discard: 09/05/2009

San Ramon CA 94583

TAO01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
<b>SW-846 8260B GC/MS Volatiles</b>						
06059	t-Amyl methyl ether	994-05-8	N.D.	0.5	1	1
06059	Benzene	71-43-2	N.D.	0.5	1	1
06059	t-Butyl alcohol	75-65-0	4 J	2	5	1
06059	Ethanol	64-17-5	N.D.	50	250	1
06059	Ethyl t-butyl ether	637-92-3	N.D.	0.5	1	1
06059	Ethylbenzene	100-41-4	N.D.	0.5	1	1
06059	di-Isopropyl ether	108-20-3	N.D.	0.5	1	1
06059	Methyl Tertiary Butyl Ether	1634-04-4	30	0.5	1	1
06059	Toluene	108-88-3	N.D.	0.5	1	1
06059	Xylene (Total)	1330-20-7	N.D.	0.5	1	1
<b>SW-846 8015B GC Volatiles</b>						
01728	TPH-GRO N. CA water C6-C12	n.a.	1,900	50	100	1

### General Sample Comments

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 Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06059	BTEX+5 Oxygenates+ETOH	SW-846 8260B	1	Z092104AA	07/30/2009 05:08	Michael A Ziegler	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z092104AA	07/30/2009 05:08	Michael A Ziegler	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	09210A08A	07/29/2009 17:24	Fanella S Zamcho	1
01146	GC VOA Water Prep	SW-846 5030B	1	09210A08A	07/29/2009 17:24	Fanella S Zamcho	1

Lancaster Laboratories Sample No. WW 5732961

Group No. 1154949  
CA

MW-2-W-090723 NA Water

Facility# 93600 BTST

2200 Telegraph Ave-Oakland T0600161613 MW-2

Collected: 07/23/2009 11:20 by JO

Account Number: 10991

Submitted: 07/25/2009 09:30

Chevron

Reported: 08/05/2009 at 13:54

6001 Bollinger Canyon Rd L4310

Discard: 09/05/2009

San Ramon CA 94583

TAO02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
<b>SW-846 8260B GC/MS Volatiles</b>			<b>ug/l</b>	<b>ug/l</b>	<b>ug/l</b>	
06059	t-Amyl methyl ether	994-05-8	N.D.	0.5	1	1
06059	Benzene	71-43-2	N.D.	0.5	1	1
06059	t-Butyl alcohol	75-65-0	N.D.	2	5	1
06059	Ethanol	64-17-5	N.D.	50	250	1
06059	Ethyl t-butyl ether	637-92-3	N.D.	0.5	1	1
06059	Ethylbenzene	100-41-4	N.D.	0.5	1	1
06059	di-Isopropyl ether	108-20-3	N.D.	0.5	1	1
06059	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1	1
06059	Toluene	108-88-3	N.D.	0.5	1	1
06059	Xylene (Total)	1330-20-7	N.D.	0.5	1	1
<b>SW-846 8015B GC Volatiles</b>			<b>ug/l</b>	<b>ug/l</b>	<b>ug/l</b>	
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	100	1

### General Sample Comments

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 Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06059	BTEX+5 Oxygenates+ETOH	SW-846 8260B	1	Z092104AA	07/30/2009 05:34	Michael A Ziegler	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z092104AA	07/30/2009 05:34	Michael A Ziegler	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	09210A08A	07/29/2009 18:13	Fanella S Zamcho	1
01146	GC VOA Water Prep	SW-846 5030B	1	09210A08A	07/29/2009 18:13	Fanella S Zamcho	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. WW 5732962

Group No. 1154949  
CA

MW-3-W-090723 NA Water

Facility# 93600 BTST

2200 Telegraph Ave-Oakland T0600161613 MW-3

Collected: 07/23/2009 10:55 by JO

Account Number: 10991

Submitted: 07/25/2009 09:30

Chevron

Reported: 08/05/2009 at 13:54

6001 Bollinger Canyon Rd L4310

Discard: 09/05/2009

San Ramon CA 94583

TAO03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
<b>SW-846 8260B</b>	<b>GC/MS Volatiles</b>		<b>ug/l</b>	<b>ug/l</b>	<b>ug/l</b>	
06059	t-Amyl methyl ether	994-05-8	N.D.	0.5	1	1
06059	Benzene	71-43-2	N.D.	0.5	1	1
06059	t-Butyl alcohol	75-65-0	N.D.	2	5	1
06059	Ethanol	64-17-5	N.D.	50	250	1
06059	Ethyl t-butyl ether	637-92-3	N.D.	0.5	1	1
06059	Ethylbenzene	100-41-4	N.D.	0.5	1	1
06059	di-Isopropyl ether	108-20-3	N.D.	0.5	1	1
06059	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1	1
06059	Toluene	108-88-3	N.D.	0.5	1	1
06059	Xylene (Total)	1330-20-7	N.D.	0.5	1	1
<b>SW-846 8015B</b>	<b>GC Volatiles</b>		<b>ug/l</b>	<b>ug/l</b>	<b>ug/l</b>	
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	100	1

### General Sample Comments

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 Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06059	BTEX+5 Oxygenates+ETOH	SW-846 8260B	1	Z092101AA	07/29/2009 08:31	Ginelle L Feister	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z092101AA	07/29/2009 08:31	Ginelle L Feister	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	09210A08A	07/29/2009 18:37	Fanella S Zamcho	1
01146	GC VOA Water Prep	SW-846 5030B	1	09210A08A	07/29/2009 18:37	Fanella S Zamcho	1

\*=This limit was used in the evaluation of the final result



# 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. WW 5732963

Group No. 1154949  
CA

QA-T-090723 NA Water  
Facility# 93600 BTST  
2200 Telegraph Ave-Oakland T0600161613 QA

Collected: 07/23/2009 11:00

Account Number: 10991

Submitted: 07/25/2009 09:30  
Reported: 08/05/2009 at 13:54  
Discard: 09/05/2009

Chevron  
6001 Bollinger Canyon Rd L4310  
San Ramon CA 94583

TAOQA

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
SW-846 8260B	GC/MS Volatiles		ug/l	ug/l	ug/l	
06054	Benzene	71-43-2	N.D.	0.5	1	1
06054	Ethylbenzene	100-41-4	N.D.	0.5	1	1
06054	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1	1
06054	Toluene	108-88-3	N.D.	0.5	1	1
06054	Xylene (Total)	1330-20-7	N.D.	0.5	1	1
SW-846 8015B	GC Volatiles		ug/l	ug/l	ug/l	
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	100	1

## General Sample Comments

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 Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06054	BTEX+MTBE by 8260B	SW-846 8260B	1	D092113AA	07/31/2009 06:57	Michael A Ziegler	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D092113AA	07/31/2009 06:57	Michael A Ziegler	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	09210A08A	07/29/2009 12:56	Fanella S Zamcho	1
01146	GC VOA Water Prep	SW-846 5030B	1	09210A08A	07/29/2009 12:56	Fanella S Zamcho	1

\*=This limit was used in the evaluation of the final result

## Quality Control Summary

Client Name: Chevron Group Number: 1154949  
 Reported: 08/05/09 at 01:54 PM

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>Blank LOQ</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: D092113AA <span style="float: right;">Sample number(s): 5732963</span>									
Benzene	N.D.	0.5	1	ug/l	110		80-116		
Ethylbenzene	N.D.	0.5	1	ug/l	107		80-113		
Methyl Tertiary Butyl Ether	N.D.	0.5	1	ug/l	92		78-117		
Toluene	N.D.	0.5	1	ug/l	109		80-115		
Xylene (Total)	N.D.	0.5	1	ug/l	109		81-114		
Batch number: Z092101AA <span style="float: right;">Sample number(s): 5732962</span>									
t-Amyl methyl ether	N.D.	0.5	1	ug/l	89		78-117		
Benzene	N.D.	0.5	1	ug/l	100		80-116		
t-Butyl alcohol	N.D.	2.	5	ug/l	110		74-116		
Ethanol	N.D.	50.	250	ug/l	111		40-158		
Ethyl t-butyl ether	N.D.	0.5	1	ug/l	90		75-118		
Ethylbenzene	N.D.	0.5	1	ug/l	96		80-113		
di-Isopropyl ether	N.D.	0.5	1	ug/l	112		71-124		
Methyl Tertiary Butyl Ether	N.D.	0.5	1	ug/l	110		78-117		
Toluene	N.D.	0.5	1	ug/l	96		80-115		
Xylene (Total)	N.D.	0.5	1	ug/l	97		81-114		
Batch number: Z092104AA <span style="float: right;">Sample number(s): 5732960-5732961</span>									
t-Amyl methyl ether	N.D.	0.5	1	ug/l	86		78-117		
Benzene	N.D.	0.5	1	ug/l	96		80-116		
t-Butyl alcohol	N.D.	2.	5	ug/l	98		74-116		
Ethanol	N.D.	50.	250	ug/l	80		40-158		
Ethyl t-butyl ether	N.D.	0.5	1	ug/l	87		75-118		
Ethylbenzene	N.D.	0.5	1	ug/l	96		80-113		
di-Isopropyl ether	N.D.	0.5	1	ug/l	90		71-124		
Methyl Tertiary Butyl Ether	N.D.	0.5	1	ug/l	89		78-117		
Toluene	N.D.	0.5	1	ug/l	95		80-115		
Xylene (Total)	N.D.	0.5	1	ug/l	95		81-114		
Batch number: 09210A08A <span style="float: right;">Sample number(s): 5732960-5732963</span>									
TPH-GRO N. CA water C6-C12	N.D.	50.	100	ug/l	109	109	75-135	0	30

### 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: D092113AA <span style="float: right;">Sample number(s): 5732963 UNSPK: P732931</span>									
Benzene	110	102	80-126	7	30				

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (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 Group Number: 1154949  
 Reported: 08/05/09 at 01:54 PM

### 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	BKG MAX Conc	DUP Conc	DUP RPD	Dup RPD Max
Ethylbenzene	105	102	77-125	3	30			
Methyl Tertiary Butyl Ether	81	91	72-126	12	30			
Toluene	108	103	80-125	5	30			
Xylene (Total)	108	103	79-125	5	30			
Batch number: Z092101AA <span style="float: right;">Sample number(s): 5732962 UNSPK: 5732962</span>								
t-Amyl methyl ether	90	90	75-122	0	30			
Benzene	106	106	80-126	0	30			
t-Butyl alcohol	109	106	67-119	3	30			
Ethanol	96	113	37-164	16	30			
Ethyl t-butyl ether	92	92	74-122	0	30			
Ethylbenzene	104	104	77-125	0	30			
di-Isopropyl ether	110	117	70-129	7	30			
Methyl Tertiary Butyl Ether	113	113	72-126	0	30			
Toluene	104	102	80-125	1	30			
Xylene (Total)	104	104	79-125	0	30			
Batch number: Z092104AA <span style="float: right;">Sample number(s): 5732960-5732961 UNSPK: P732942</span>								
t-Amyl methyl ether	87	91	75-122	4	30			
Benzene	105	106	80-126	1	30			
t-Butyl alcohol	98	96	67-119	2	30			
Ethanol	81	114	37-164	34*	30			
Ethyl t-butyl ether	90	92	74-122	2	30			
Ethylbenzene	105	108	77-125	2	30			
di-Isopropyl ether	94	96	70-129	3	30			
Methyl Tertiary Butyl Ether	90	92	72-126	2	30			
Toluene	103	105	80-125	2	30			
Xylene (Total)	104	106	79-125	2	30			
Batch number: 09210A08A <span style="float: right;">Sample number(s): 5732960-5732963 UNSPK: 5732961</span>								
TPH-GRO N. CA water C6-C12	118		63-154					

### 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: BTEX+MTBE by 8260B  
 Batch number: D092113AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5732963	106	105	97	100
Blank	108	105	97	99
LCS	108	102	99	104
MS	106	105	99	104
MSD	107	104	100	105
Limits:	80-116	77-113	80-113	78-113

Analysis Name: BTEX+5 Oxygenates+ETOH

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (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: 08/05/09 at 01:54 PM

Group Number: 1154949

### Surrogate Quality Control

Batch number: Z092101AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5732962	104	102	102	92
Blank	104	101	103	93
LCS	104	104	103	97
MS	103	102	102	96
MSD	103	103	102	96
Limits:	80-116	77-113	80-113	78-113

Analysis Name: BTEX+5 Oxygenates+ETOH

Batch number: Z092104AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5732960	106	103	109	103
5732961	108	103	110	96
Blank	108	103	110	96
LCS	110	108	110	100
MS	108	105	109	105
MSD	108	106	109	106
Limits:	80-116	77-113	80-113	78-113

Analysis Name: TPH-GRO N. CA water C6-C12

Batch number: 09210A08A

	Trifluorotoluene-F
5732960	106
5732961	98
5732962	105
5732963	284*
Blank	105
LCS	109
LCSD	110
MS	106
Limits:	63-135

\*- Outside of specification

\*\*-This limit was used in the evaluation of the final result for the blank

- (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.



072409-05

CHAIN OF CUSTODY FORM

Chevron Environmental Management Company ■ 6111 Bollinger Canyon Rd. ■ San Ramon, CA 94583

COC ( of )

Chevron Site Number: 93600  
 Chevron Site Global ID: T0600161613  
 Chevron Site Address: 2200 Telgraph Ave.,  
 Oakland, CA  
 Chevron PM: AARON COSTA  
 Chevron PM Phone No.: (925)543-2961  
 Retail and Terminal Business Unit (RTBU) Job  
 Construction/Retail Job

Chevron Consultant: CRA  
 Address: 5900 Hollis St. Suite A Emeryville  
 CA Consultant Contact: Charlotte Evans  
 Consultant Phone No. 510-420-3351  
 Consultant Project No. 090723-203  
 Sampling Company: Blaine Tech Services  
 Sampled By (Print): J. Garcia  
 Sampler Signature: *J. Garcia*

**ANALYSES REQUIRED**

<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>							<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	Preservation Codes
											H = HCL T = Thiosulfate N = HNO <sub>3</sub> B = NaOH S = H <sub>2</sub> SO <sub>4</sub> O = Other acct # 10991 Co # 1154949 Sond # 5732960-63
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Special Instructions Must meet lowest detection limits possible for 8260 Compounds
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

Charge Code: NWRWB-0093600-0-OML  
 NWRWB 00SITE NUMBER-0-WBS  
**(WBS ELEMENTS:**  
 SITE ASSESSMENT: A1L REMEDIATION IMPLEMENTATION: R5L  
 SITE MONITORING: OML OPERATION MAINTENANCE & MONITORING: M1L  
 THIS IS A LEGAL DOCUMENT. ALL FIELDS MUST BE FILLED OUT CORRECTLY AND COMPLETELY.

Lancaster Laboratories  
 Lancaster, PA  
 Lab Contact: Jill Parker  
 2425 New Holland Pike, Lancaster, PA 17601  
 Phone No: (717)856-2300  
 Other Lab  
 Temp. Blank Check Time Temp.  
 0500 1%  
 1000 1%  
 1200 2%  
 1400 2%  
 1600 2%

SAMPLE ID				Sample Time	# of Containers	Container Type	ANALYSES REQUIRED												Notes/Comments
Field Point Name	Matrix	Top Depth	Date (yyymmdd)				EPA 8260B/GC/MS TPH-G	EPA 8015B GRO	EPA 8021B BTEX	EPA 6010 Ca, Fe, K, Mg, Mn, Na	EPA 6010/7000 TITILE 22 METALS	EPA 150.1 PH	SM2510B SPECIFIC CONDUCTIVITY	EPA 418.1 TRPH	EPA 8260 ETHANOL	EPA 8015 TPH-D			
MW-1	W		090723	1040 1140	1	VOAS	X	X					X						
MW-2	↓			1120	↓		X	X					X						
MW-3	↓			1055	↓		X	X					X						
QA	T			1100	2			X								X			

Relinquished By: <i>J. Garcia</i> BIS 1600 7/23/09 1600	Relinquished To: <i>J. Garcia</i> (Sample custodian) BIS 7/23/09 1600
Relinquished By: <i>J. Garcia</i> BIS 7/24/09 1130	Relinquished To: <i>J. Garcia</i> LLI 7/24/09 1130
Relinquished By: <i>J. Garcia</i> LLI 1515 7/24/09	Relinquished To: <i>J. Garcia</i> LLI 7/24/09 0930

Turnaround Time: Standard  24 Hours  48 hours  72 Hours  Other

Sample Integrity: (Check by lab on arrival)  
 Intact:  On Ice:  Temp: \_\_\_\_\_  
 COC # \_\_\_\_\_

## 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.

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