



**Carryl MacLeod**  
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Marketing Business Unit

**Chevron Environmental  
Management Company**  
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October 20, 2014

**RECEIVED**

*By Alameda County Environmental Health at 11:07 am, Oct 22, 2014*

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

Re: Former Texaco Service Station 307233  
2259 First Street  
Livermore, California  
ACEHS Case RO0002908

I accept the Second Semi-Annual 2014 Groundwater Monitoring and Sampling Report.

I agree with the conclusions and recommendations presented in this document. The information included is accurate to the best of my knowledge, and appears to meet local agency and Regional Board guidelines. This Second Semi-Annual 2014 Groundwater Monitoring and Sampling 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 cursive script that reads "Carryl MacLeod".

Carryl MacLeod  
Project Manager

Attachment: Second Semi-Annual 2014 Groundwater Monitoring and Sampling Report



**CONESTOGA-ROVERS  
& ASSOCIATES**

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

October 20, 2014

Reference No. 312264

Mr. Jerry Wickham  
Alameda County Environmental Health Services (ACEH)  
1131 Harbor Bay Parkway, Suite 250  
Alameda, California 94502-6577

Re: Second Semi-Annual 2014  
Groundwater Monitoring and Sampling Report  
Former Texaco Service Station 307233  
2259 First Street  
Livermore, California  
ACEHS Case RO0002908

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Dear Mr. Wickham:

Conestoga-Rovers & Associates (CRA) is submitting this *Second Semi-Annual 2014 Groundwater Monitoring and Sampling Report* for the site referenced above (Figure 1) on behalf of Chevron Environmental Management Company (Chevron). Groundwater monitoring and sampling was performed by Gettler-Ryan Inc. (G-R) of Dublin, California and their *Groundwater Monitoring and Sampling Data Package* is included as Attachment A. Current and historical groundwater monitoring and sampling data are presented in Table 1 and current data are shown on Figures 2 and 3. Eurofins Lancaster Laboratories Environmental, LLCs' *Analytical Results* report is included as Attachment B.

### **RESULTS OF SECOND SEMI-ANNUAL 2014 EVENT**

On September 11, 2014, G-R monitored the site wells per the established schedule; however, five wells scheduled for sampling were not sampled due to insufficient water.

Results of the current monitoring event indicate the following:

- |  |                           |
|--|---------------------------|
| • Shallow Groundwater Flow Direction   | Southwest                 |
| • Shallow Hydraulic Gradient           | 0.2                       |
| • Deep Groundwater Flow Direction      | West-Northwest            |
| • Deep Hydraulic Gradient              | 0.01                      |
| • Approximate Depth to Water - Shallow | 32 to 39 feet below grade |
| • Approximate Depth to Water - Deep    | 52 to 53 feet below grade |

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Equal  
Employment Opportunity  
Employer

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October 20, 2014

Reference No. 312264

Results of the current sampling event are presented below in Table A.

<b>TABLE A: GROUNDWATER ANALYTICAL DATA</b>						
<i>Well ID</i>	<i>TPHd* (µg/L)</i>	<i>TPHg (µg/L)</i>	<i>Benzene (µg/L)</i>	<i>Toluene (µg/L)</i>	<i>Ethylbenzene (µg/L)</i>	<i>Total Xylenes (µg/L)</i>
<i>ESLs</i>	<b>100</b>	<b>100</b>	<b>1</b>	<b>40</b>	<b>30</b>	<b>20</b>
MW-1	57 J / <50	<50	<0.5	<0.5	<0.5	<0.5
MW-2	<50 / <50	<50	<0.5	<0.5	<0.5	<0.5
MW-3	<b>250 / 110</b>	<b>1,500</b>	<b>26</b>	1	0.8 J	2
MW-4	<b>760 / 400</b>	<b>2,700</b>	<b>4</b>	2	5	6
MW-5	<50 / <50	<50	<0.5	<0.5	<0.5	<0.5
MW-6	<b>1,600 / 990</b>	<b>1,700</b>	<b>17</b>	0.9 J	0.9 J	0.9 J
MW-7	<i>Insufficient Water</i>					
MW-8	<i>Insufficient Water</i>					
MW-9	<i>Dry Well</i>					
MW-10	<i>Insufficient Water</i>					
MW-11	<i>Insufficient Water</i>					
MW-12	<b>640 / 240</b>	<b>2,400</b>	<b>14</b>	1	6	4
ESL	San Francisco Bay Region-Regional Water Quality Control Board, (RWQCB), 2008, <i>Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater</i> , Interim final, May 2013, Table F-1a.					
NA	Not Analyzed					
*	Analyzed without and with 10 gram silica gel cleanup					
J	Estimated Value					
Concentrations in <b>BOLD</b> exceed ESLs						

**CONCLUSIONS AND RECOMMENDATIONS**

The results of ongoing groundwater monitoring and sampling at the site indicate the following:

- TPHd, TPHg, and to a lesser extent, benzene are the primary constituents of concern at the site.
- For the shallow zone, only well MW-12 had sufficient water for sample collection during this event. Analytical results are consistent with historical results.
- Hydrocarbon concentrations in deep zone wells are consistent with historical results and continue to decline or are stable, with the exception of a slight increase in MW-6, likely due to the drop (approximately 16 feet) in water elevation. Dissolved hydrocarbons in the deep zone are defined downgradient by well MW-2.



**CONESTOGA-ROVERS  
& ASSOCIATES**

October 20, 2014

Reference No. 312264

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CRA recommends continuing semi-annual monitoring and sampling to evaluate concentration trends over time.

### ANTICIPATED FUTURE ACTIVITIES

#### *Groundwater Monitoring*

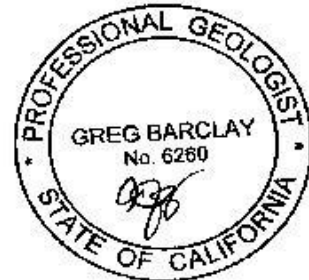
G-R will conduct semi-annual monitoring and sampling of site wells during the first quarter 2015. CRA will submit a groundwater monitoring and sampling report.

Please contact Brian Silva at (916) 889-8908 if you have any questions or require additional information.

Sincerely,  
CONESTOGA-ROVERS & ASSOCIATES

Brian Silva

Greg Barclay, PG 6260



BS/cw/33  
Encl.

Figure 1	Vicinity Map
Figure 2	Shallow Zone Groundwater Elevation Contour and Hydrocarbon Concentration Map
Figure 2	Deep Zone Groundwater Elevation Contour and Hydrocarbon Concentration Map
Table 1	Groundwater Monitoring and Sampling Data
Attachment A	Groundwater Monitoring and Sampling Data Package
Attachment B	Laboratory Analytical Report

cc: Ms. Carryl MacLeod, Chevron (*electronic copy*)  
Mr. Eric Uranaga, City of Livermore Community Development

## FIGURES



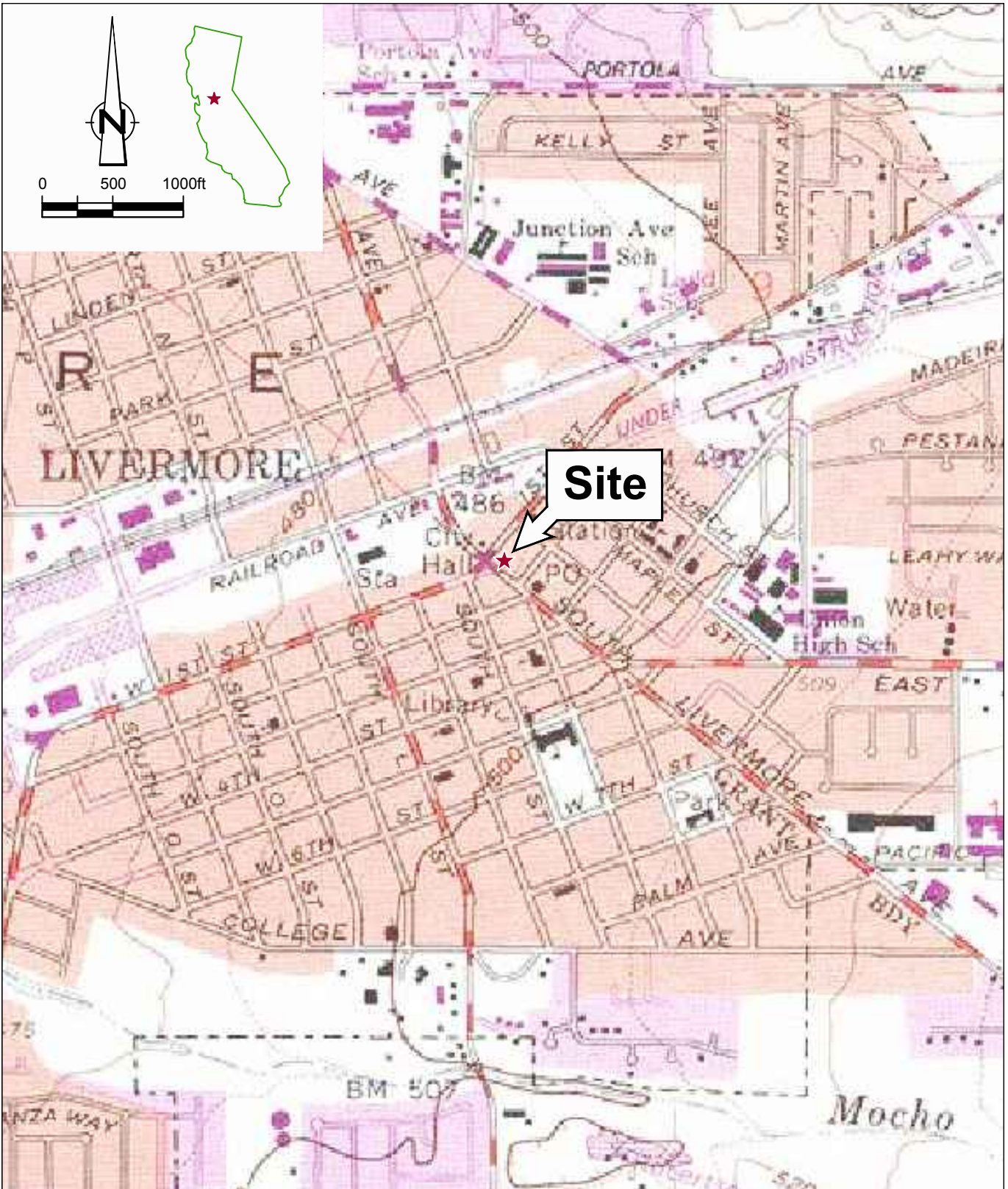
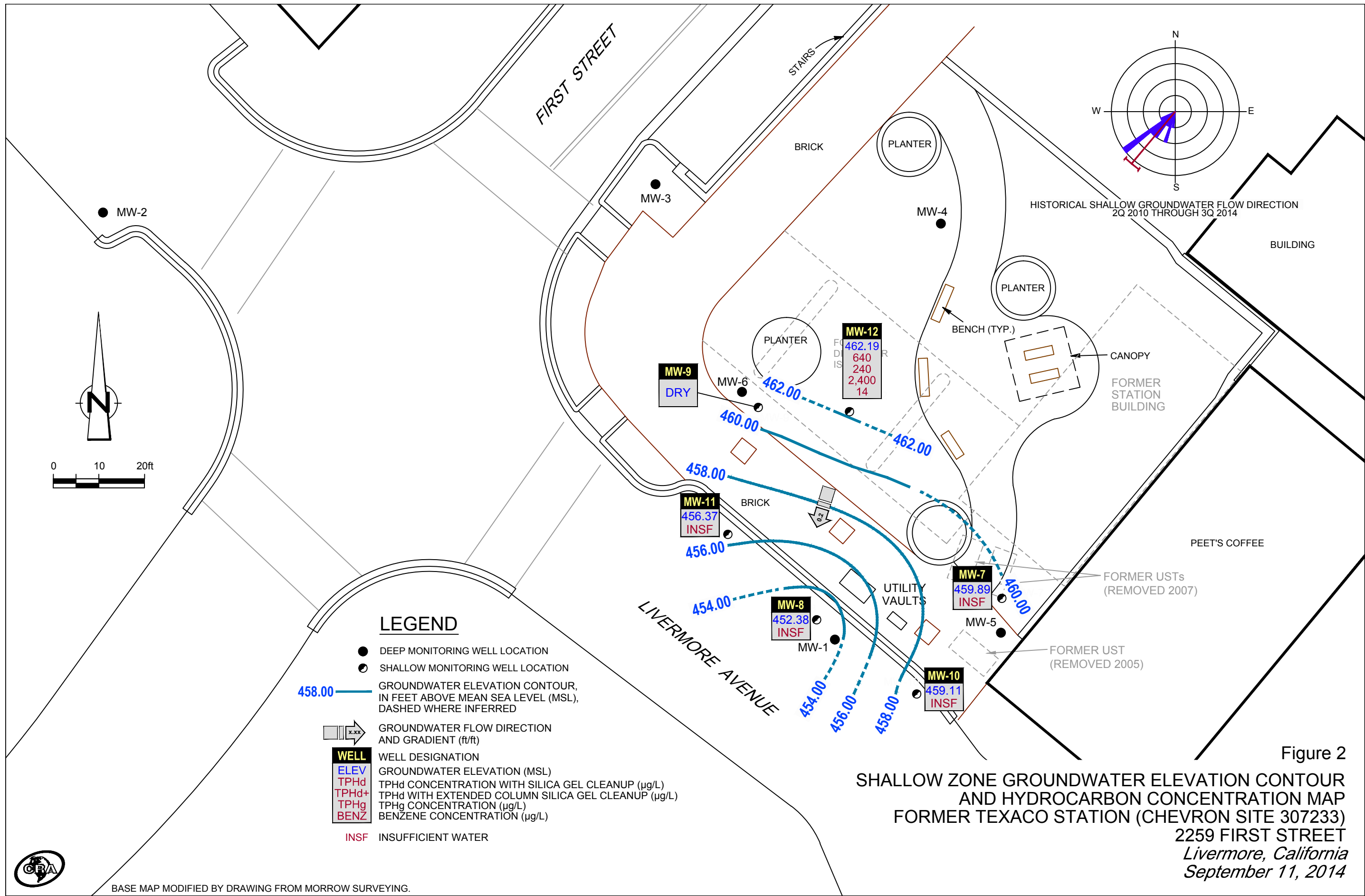


Figure 1  
 VICINITY MAP  
 FORMER TEXACO STATION (CHEVRON SITE 307233)  
 2259 FIRST STREET  
 Livermore, California





**LEGEND**

- DEEP MONITORING WELL LOCATION
- SHALLOW MONITORING WELL LOCATION
- GROUNDWATER ELEVATION CONTOUR, IN FEET ABOVE MEAN SEA LEVEL (MSL), DASHED WHERE INFERRED
- GROUNDWATER FLOW DIRECTION AND GRADIENT (ft/ft)

WELL	GROUNDWATER ELEVATION (MSL)	TPHd CONCENTRATION WITH SILICA GEL CLEANUP (µg/L)	TPHd WITH EXTENDED COLUMN SILICA GEL CLEANUP (µg/L)	TPHg CONCENTRATION (µg/L)	BENZENE CONCENTRATION (µg/L)
ELEV					
TPHd					
TPHd+					
TPHg					
BENZ					

INSF INSUFFICIENT WATER

Figure 2  
**SHALLOW ZONE GROUNDWATER ELEVATION CONTOUR AND HYDROCARBON CONCENTRATION MAP**  
 FORMER TEXACO STATION (CHEVRON SITE 307233)  
 2259 FIRST STREET  
 Livermore, California  
 September 11, 2014



BASE MAP MODIFIED BY DRAWING FROM MORROW SURVEYING.



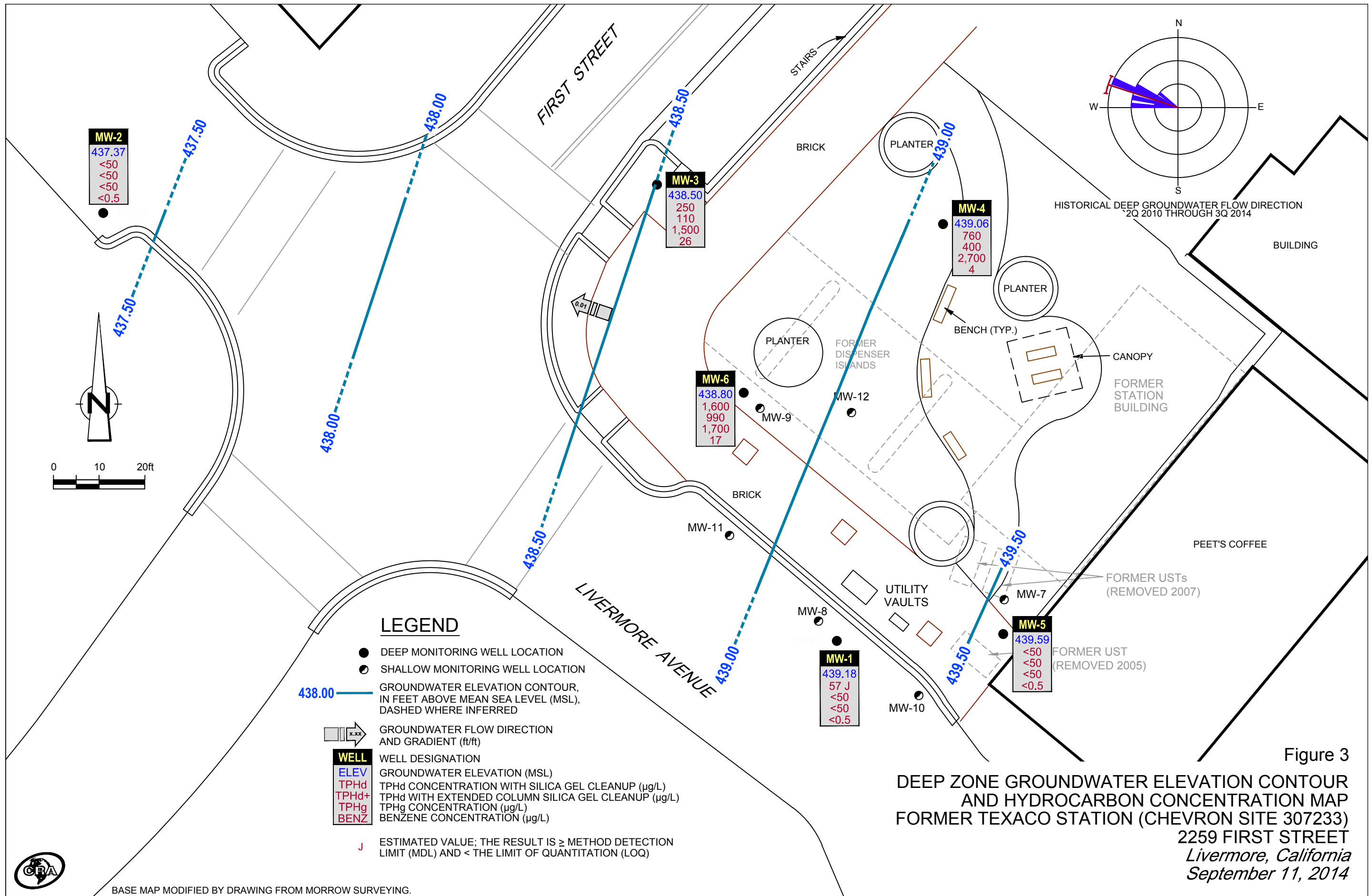


Figure 3  
**DEEP ZONE GROUNDWATER ELEVATION CONTOUR AND HYDROCARBON CONCENTRATION MAP**  
 FORMER TEXACO STATION (CHEVRON SITE 307233)  
 2259 FIRST STREET  
 Livermore, California  
 September 11, 2014



BASE MAP MODIFIED BY DRAWING FROM MORROW SURVEYING.



## TABLE

**TABLE 1**  
**GROUNDWATER MONITORING AND SAMPLING DATA**  
**FORMER CHEVRON SERVICE STATION 307233**  
**2259 FIRST STREET**  
**LIVERMORE, CALIFORNIA**

Location	Date	TOC	DTW	GWE	LNAPL	LNAPL REMOVED	TPH-DRO	TPH-DRO w/ Si Gel	TPH-GRO	B	T	E	X	Nitrate Nitrogen	Sulfate	Total sulfide (dissolved)	Ferrous Iron	Alkalinity, total (as CaCO3)	Alkalinity, phenolphthalein	Methane	Calcium	
	Units	ft	ft	ft-amsl	ft	gal	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	
MW-1	05/25/2010 <sup>1</sup>	490.86	30.62	460.24	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-1	05/27/2010	490.86	30.65	460.21	0.00	0.00	<50	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
MW-1	09/13/2010	490.86	36.49	454.37	0.00	0.00	51	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
MW-1	12/20/2010	490.86	32.24	458.62	0.00	0.00	-	79	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
MW-1	03/07/2011	490.86	27.86	463.00	0.00	0.00	-	<50	<50	<0.5	<0.5	<0.5	<0.5	6,900	73,600	-	<10	-	-	-	-	-
MW-1	06/06/2011	490.86	27.10	463.76	0.00	0.00	-	220	<50	<0.5	<0.5	<0.5	<0.5	7,000	71,000	-	<10	-	-	-	-	-
MW-1	09/19/2011	490.86	31.26	459.60	0.00	0.00	-	450/<50	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
MW-1	03/09/2012 <sup>7</sup>	490.86	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-1	03/12/2012 <sup>4</sup>	490.86	41.35	449.51	0.00	0.00	-	<50/<50	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
MW-1	06/04/2012 <sup>7</sup>	490.86	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-1	09/10/2012 <sup>4</sup>	490.86	40.67	450.19	0.00	0.00	-	<50 / <50	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
MW-1	12/10/2012 <sup>7</sup>	490.86	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-1	03/04/2013 <sup>4</sup>	490.86	30.35	460.51	0.00	0.00	-	170 / <50	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
MW-1	06/03/2013 <sup>7</sup>	490.86	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-1	09/09/2013 <sup>4</sup>	490.86	34.08	456.78	0.00	0.00	-	<50 / <50	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
MW-1	12/09/2013 <sup>7</sup>	490.86	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-1	03/27/2014 <sup>4</sup>	490.86	35.48	455.38	0.00	0.00	-	<50 / <50	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
MW-1	06/19/2014 <sup>7</sup>	490.86	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>MW-1</b>	<b>09/11/2014</b>	<b>490.86</b>	<b>51.68</b>	<b>439.18</b>	<b>0.00</b>	<b>0.00</b>	-	<b>57 J / &lt;50</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>	-	-	-	-	-	-	-	-	-
MW-2	05/25/2010 <sup>1</sup>	489.43	31.18	458.25	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-2	05/27/2010	489.43	31.11	458.32	0.00	0.00	<50	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
MW-2	09/13/2010	489.43	36.96	452.47	0.00	0.00	<50	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
MW-2	12/20/2010	489.43	32.62	456.81	0.00	0.00	-	52	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
MW-2	03/07/2011	489.43	28.26	461.17	0.00	0.00	-	<50	<50	<0.5	<0.5	<0.5	<0.5	3,600	45,900	-	20	-	-	-	-	-
MW-2	06/06/2011	489.43	27.73	461.70	0.00	0.00	-	220	<50	<0.5	<0.5	<0.5	<0.5	2,900	43,600	-	<10	-	-	-	-	-
MW-2	09/19/2011	489.43	31.92	457.51	0.00	0.00	-	230/<50	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
MW-2	03/09/2012 <sup>7</sup>	489.43	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-2	03/12/2012 <sup>4</sup>	489.43	41.84	447.59	0.00	0.00	-	<50/<50	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
MW-2	06/04/2012 <sup>7</sup>	489.43	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-2	09/10/2012 <sup>4</sup>	489.43	41.32	448.11	0.00	0.00	-	<50 / <50	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA  
 FORMER CHEVRON SERVICE STATION 307233  
 2259 FIRST STREET  
 LIVERMORE, CALIFORNIA

Location	Date	TOC	DTW	GWE	LNAPL	LNAPL REMOVED	TPH-DRO	TPH-DRO w/ Si Gel	TPH-GRO	B	T	E	X	Nitrate Nitrogen	Sulfate	Total sulfide (dissolved)	Ferrous Iron	Alkalinity, total (as CaCO3)	Alkalinity, phenolphthalein	Methane	Calcium	
	Units	ft	ft	ft-amsl	ft	gal	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	
MW-2	12/10/2012 <sup>7</sup>	489.43	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-2	03/04/2013 <sup>4</sup>	489.43	30.91	458.52	0.00	0.00	-	<50 / <50	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
MW-2	06/03/2013 <sup>7</sup>	489.43	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-2	09/09/2013 <sup>4</sup>	489.43	34.76	454.67	0.00	0.00	-	<50 / <50	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
MW-2	12/09/2013 <sup>7</sup>	489.43	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-2	03/27/2014 <sup>4</sup>	489.43	35.84	453.59	0.00	0.00	-	91 / <50	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
MW-2	06/19/2014 <sup>7</sup>	489.43	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>MW-2</b>	<b>09/11/2014</b>	<b>489.43</b>	<b>52.06</b>	<b>437.37</b>	<b>0.00</b>	<b>0.00</b>	-	<b>&lt;50 / &lt;50</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>	-	-	-	-	-	-	-	-	-
MW-3	05/25/2010 <sup>1</sup>	490.38	30.17	460.21	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-3	05/27/2010	490.38	30.98	459.40	0.00	0.00	610	-	2,100	2	<0.5	<0.5	0.9	-	-	-	-	-	-	-	-	-
MW-3	09/13/2010	490.38	36.77	453.61	0.00	0.00	<50	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
MW-3	12/20/2010	490.38	32.41	457.97	0.00	0.00	-	97	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
MW-3	03/07/2011	490.38	28.06	462.32	0.00	0.00	-	<50	<50	<0.5	<0.5	<0.5	<0.5	4,300	70,400	-	53	-	-	-	-	-
MW-3	06/06/2011	490.38	27.28	463.10	0.00	0.00	-	110	<50	<0.5	<0.5	<0.5	<0.5	3,900	66,400	-	17	-	-	-	-	-
MW-3	09/19/2011	490.38	31.21	459.17	0.00	0.00	-	170/230	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
MW-3	03/09/2012 <sup>7</sup>	490.38	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-3	03/12/2012 <sup>4</sup>	490.38	41.66	448.72	0.00	0.00	-	<50 / <50	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
MW-3	06/04/2012 <sup>7</sup>	490.38	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-3	09/10/2012 <sup>4</sup>	490.38	41.02	449.36	0.00	0.00	-	<50 / <50	<50	<5	<5	<5	<5	-	-	-	-	-	-	-	-	-
MW-3	12/10/2012 <sup>7</sup>	490.38	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-3	03/04/2013 <sup>4</sup>	490.38	30.58	459.80	0.00	0.00	-	360 / 240	1,500	150	3	2	3	-	-	-	-	-	-	-	-	-
MW-3	06/03/2013 <sup>7</sup>	490.38	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-3	09/09/2013 <sup>4</sup>	490.38	34.38	456.00	0.00	0.00	-	250 / 170	910	50	1	0.7	2	-	-	-	-	-	-	-	-	-
MW-3	12/09/2013 <sup>7</sup>	490.38	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-3	03/27/2014 <sup>4</sup>	490.38	35.68	454.70	0.00	0.00	-	660 / <50	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
MW-3	06/19/2014 <sup>7</sup>	490.38	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>MW-3</b>	<b>09/11/2014</b>	<b>490.38</b>	<b>51.88</b>	<b>438.50</b>	<b>0.00</b>	<b>0.00</b>	-	<b>250 / 110</b>	<b>1,500</b>	<b>26</b>	<b>1</b>	<b>0.8 J</b>	<b>2</b>	-	-	-	-	-	-	-	-	-
MW-4	05/25/2010 <sup>1</sup>	492.27	32.21	460.06	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-4	05/27/2010	492.27	32.26	460.01	0.00	0.00	230	-	1,800	1	<0.5	<0.5	0.7	-	-	-	-	-	-	-	-	-

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA  
 FORMER CHEVRON SERVICE STATION 307233  
 2259 FIRST STREET  
 LIVERMORE, CALIFORNIA

Location	Date	TOC	DTW	GWE	LNAPL	LNAPL REMOVED	TPH-DRO	TPH-DRO w/ Si Gel	TPH-GRO	B	T	E	X	Nitrate Nitrogen	Sulfate	Total sulfide (dissolved)	Ferrous Iron	Alkalinity, total (as CaCO3)	Alkalinity, phenolphthalein	Methane	Calcium	
	Units	ft	ft	ft-amsl	ft	gal	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	
MW-4	09/13/2010	492.27	38.14	454.13	0.00	0.00	<50	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
MW-4	12/20/2010	492.27	33.80	458.47	0.00	0.00	-	180	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
MW-4	03/07/2011	492.27	29.42	462.85	0.00	0.00	-	<50	<50	<0.5	<0.5	<0.5	<0.5	7,900	72,300	-	15	-	-	-	-	-
MW-4	06/06/2011	492.27	28.52	463.75	0.00	0.00	-	87	<50	<0.5	<0.5	<0.5	<0.5	7,500	67,700	-	<10	-	-	-	-	-
MW-4	09/19/2011	492.27	32.78	459.49	0.00	0.00	-	330/140	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
MW-4	03/09/2012 <sup>7</sup>	492.27	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-4	03/12/2012 <sup>4</sup>	492.27	42.99	449.28	0.00	0.00	-	130/<50	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
MW-4	06/04/2012 <sup>7</sup>	492.27	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-4	09/10/2012 <sup>4</sup>	492.27	42.30	449.97	0.00	0.00	-	580 / 310	2,400	2	0.7	2	2	-	-	-	-	-	-	-	-	-
MW-4	12/10/2012 <sup>7</sup>	492.27	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-4	03/04/2013 <sup>4</sup>	492.27	31.89	460.38	0.00	0.00	-	170 / 100	350	<0.5	<0.5	0.6	<0.5	-	-	-	-	-	-	-	-	-
MW-4	06/03/2013 <sup>7</sup>	492.27	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-4	09/09/2013 <sup>4</sup>	492.27	35.67	456.60	0.00	0.00	-	76 / 65	190	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
MW-4	12/09/2013 <sup>7</sup>	492.27	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-4	03/27/2014 <sup>4</sup>	492.27	37.05	455.22	0.00	0.00	-	750 / 530	3,000	2	0.8	4	3	-	-	-	-	-	-	-	-	-
MW-4	06/19/2014 <sup>7</sup>	492.27	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>MW-4</b>	<b>09/11/2014</b>	<b>492.27</b>	<b>53.21</b>	<b>439.06</b>	<b>0.00</b>	<b>0.00</b>	<b>-</b>	<b>760 / 400</b>	<b>2,700</b>	<b>4</b>	<b>2</b>	<b>5</b>	<b>6</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
MW-5	05/25/2010 <sup>1</sup>	491.99	31.39	460.60	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-5	05/27/2010	491.99	31.42	460.57	0.00	0.00	120	-	420	2	<0.5	<0.5	1	-	-	-	-	-	-	-	-	-
MW-5	09/13/2010	491.99	37.25	454.74	0.00	0.00	700	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
MW-5	12/20/2010	491.99	33.01	458.98	0.00	0.00	-	74	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
MW-5	03/07/2011	491.99	28.60	463.39	0.00	0.00	-	93	<50	<0.5	<0.5	<0.5	<0.5	7,900	70,100	-	23	-	-	-	-	-
MW-5	06/06/2011	491.99	27.71	464.28	0.00	0.00	-	<50	18,000	1,500	45	450	1,700	<250	2,700	-	11	-	-	-	-	-
MW-5	06/22/2011 <sup>2</sup>	491.99	28.90	463.09	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
MW-5	09/19/2011	491.99	31.94	460.05	0.00	0.00	-	240/410	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
MW-5	03/09/2012 <sup>7</sup>	491.99	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-5	03/12/2012 <sup>4</sup>	491.99	42.15	449.84	0.00	0.00	-	95/<50	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
MW-5	06/4/2012 <sup>7</sup>	491.99	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-5	09/10/2012 <sup>4</sup>	491.99	41.39	450.60	0.00	0.00	-	<50 / <50	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
MW-5	12/10/2012 <sup>7</sup>	491.99	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

**TABLE 1**  
**GROUNDWATER MONITORING AND SAMPLING DATA**  
**FORMER CHEVRON SERVICE STATION 307233**  
**2259 FIRST STREET**  
**LIVERMORE, CALIFORNIA**

Location	Date	TOC	DTW	GWE	LNAPL	LNAPL REMOVED	TPH-DRO	TPH-DRO w/ Si Gel	TPH-GRO	B	T	E	X	Nitrate Nitrogen	Sulfate	Total sulfide (dissolved)	Ferrous Iron	Alkalinity, total (as CaCO3)	Alkalinity, phenolphthalein	Methane	Calcium	
	Units	ft	ft	ft-amsl	ft	gal	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	
MW-5	03/04/2013 <sup>4</sup>	491.99	31.07	460.92	0.00	0.00	-	<50 / <50	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
MW-5	06/03/2013 <sup>7</sup>	491.99	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-5	09/09/2013 <sup>4</sup>	491.99	34.79	457.20	0.00	0.00	-	<50 / <50	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
MW-5	12/09/2013 <sup>7</sup>	491.99	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-5	03/27/2014 <sup>4</sup>	491.99	36.18	455.81	0.00	0.00	-	<50 / <50	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
MW-5	06/19/2014 <sup>7</sup>	491.99	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>MW-5</b>	<b>09/11/2014</b>	<b>491.99</b>	<b>52.40</b>	<b>439.59</b>	<b>0.00</b>	<b>0.00</b>	-	<b>&lt;50 / &lt;50</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>	-	-	-	-	-	-	-	-	-
MW-6	05/25/2010 <sup>1</sup>	491.52	31.63	459.89	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-6	05/27/2010	491.52	31.79	459.73	0.00	0.00	1,000	-	3,700	4	<0.5	<0.5	1	-	-	-	-	-	-	-	-	-
MW-6	09/13/2010	491.52	37.64	453.88	0.00	0.00	68	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
MW-6	12/20/2010	491.52	33.32	458.20	0.00	0.00	-	140	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
MW-6	03/07/2011	491.52	28.96	462.56	0.00	0.00	-	63	<50	<0.5	<0.5	<0.5	<0.5	360	55,400	-	33	-	-	-	-	-
MW-6	06/06/2011	491.52	28.08	463.44	0.00	0.00	-	<50	<50	<0.5	<0.5	<0.5	<0.5	5,300	54,000	-	<10	-	-	-	-	-
MW-6	09/19/2011	491.52	32.38	459.14	0.00	0.00	-	<50/380	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
MW-6	03/09/2012 <sup>7</sup>	491.52	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-6	03/12/2012 <sup>4</sup>	491.52	42.50	449.02	0.00	0.00	-	54 / <50	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
MW-6	06/4/2012 <sup>7</sup>	491.52	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-6	09/10/2012 <sup>4</sup>	491.52	41.82	449.70	0.00	0.00	-	86 / <50	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
MW-6	12/10/2012 <sup>7</sup>	491.52	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-6	03/04/2013 <sup>4</sup>	491.52	31.45	460.07	0.00	0.00	-	210 / 160	210	0.6	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
MW-6	06/03/2013 <sup>7</sup>	491.52	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-6	09/09/2013 <sup>4</sup>	491.52	35.22	456.30	0.00	0.00	-	120 / 66	110	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
MW-6	12/09/2013 <sup>7</sup>	491.52	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-6	03/27/2014 <sup>4</sup>	491.52	36.58	454.94	0.00	0.00	-	160 / 160	870	<0.5	<0.5	0.6	<0.5	-	-	-	-	-	-	-	-	-
MW-6	06/19/2014 <sup>7</sup>	491.52	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>MW-6</b>	<b>09/11/2014</b>	<b>491.52</b>	<b>52.72</b>	<b>438.80</b>	<b>0.00</b>	<b>0.00</b>	-	<b>1600 / 990</b>	<b>1,700</b>	<b>17</b>	<b>0.9 J</b>	<b>0.9 J</b>	<b>0.9 J</b>	-	-	-	-	-	-	-	-	-
MW-7	05/25/2010 <sup>1</sup>	492.29	28.69	463.60	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-7	05/27/2010	492.29	28.61	463.68	0.00	0.00	2,800	-	14,000	1,800	35	320	660	-	-	-	-	-	-	-	-	-
MW-7	09/13/2010	492.29	31.75	460.54	0.00	0.00	40,000	-	16,000	1,700	33	460	600	-	-	-	-	-	-	-	-	-



**TABLE 1**  
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**FORMER CHEVRON SERVICE STATION 307233**  
**2259 FIRST STREET**  
**LIVERMORE, CALIFORNIA**

Location	Date	TOC	DTW	GWE	LNAPL	LNAPL REMOVED	TPH-DRO	TPH-DRO w/ Si Gel	TPH-GRO	B	T	E	X	Nitrate Nitrogen	Sulfate	Total sulfide (dissolved)	Ferrous Iron	Alkalinity, total (as CaCO <sub>3</sub> )	Alkalinity, phenolphthalein	Methane	Calcium
	Units	ft	ft	ft-amsl	ft	gal	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-7	12/20/2010	492.29	27.96	464.33	0.00	0.00	-	6,200	15,000	2,800	59	450	530	-	-	-	-	-	-	-	-
MW-7	03/07/2011	492.29	24.98	467.31	0.00	0.00	-	55,000	16,000	1,500	50	470	2,100	<250	2,600	-	2,800	-	-	-	-
MW-7	06/06/2011	492.29	24.12	468.17	0.00	0.00	-	24,000	<50	<0.5	<0.5	<0.5	<0.5	8,000	70,300	-	4,300	-	-	-	-
MW-7	06/22/2011 <sup>2</sup>	492.29	26.71	465.58	0.00	0.00	-	-	19,000	1,800	47	490	2,200	-	-	-	-	-	-	-	-
MW-7	09/19/2011 <sup>3</sup>	492.29	28.85	463.44	0.12	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-7	03/09/2012	492.29	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-7	03/12/2012 <sup>5</sup>	492.29	32.38	459.91	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-7	06/04/2012 <sup>5,6</sup>	492.29	32.38	459.91	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-7	09/10/2012 <sup>5,9</sup>	492.29	32.62	459.67	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-7	12/10/2012 <sup>4,9</sup>	492.29	28.77	463.52	0.00	0.00	-	180,000 / 150,000	21,000	2,300	47	400	550	-	250,000	<54	6,000	573,000	-	12,000	179,000
MW-7	03/04/2013 <sup>4,9</sup>	492.29	29.63	462.66	0.00	0.00	-	46,000 / 34,000	18,000	1,900	26	370	390	-	221,000	880	6,300	679,000	-	16,000	127,000
MW-7	06/03/2013 <sup>9</sup>	492.29	31.13	461.16	0.00	0.00	-	-	21,000	1,900	23	310	250	-	159,000	-	-	-	-	9,500	-
MW-7	09/09/2013 <sup>5,9</sup>	492.29	32.38	459.91	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-7	12/09/2013 <sup>4,8,9</sup>	492.29	31.78	460.51	0.00	0.00	-	94,000 / 82,000	17,000	2,600	22	400	220	-	-	-	-	-	-	-	-
MW-7	03/27/2014 <sup>4,8,9</sup>	492.29	30.05	462.24	0.00	0.00	-	43,000 / 42,000	18,000	2,900	56	440	250	-	72,000	300	9,500	540,000	-	11,000	100,000
MW-7	06/19/2014 <sup>5,9</sup>	492.29	32.40	459.89	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>MW-7</b>	<b>09/11/2014<sup>5,9</sup></b>	<b>492.29</b>	<b>32.40</b>	<b>459.89</b>	<b>0.00</b>	<b>0.00</b>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-8	05/25/2010 <sup>1</sup>	490.89	30.62	460.27	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-8	05/27/2010	490.89	30.78	460.11	0.00	0.00	750	-	3,100	36	3	<0.5	2	-	-	-	-	-	-	-	-
MW-8	09/13/2010	490.89	36.55	454.34	0.00	0.00	590	-	3,400	5	2	<0.5	1	-	-	-	-	-	-	-	-
MW-8	12/20/2010	490.89	31.60	459.29	0.00	0.00	-	750	4,000	0.8	0.7	19	3	-	-	-	-	-	-	-	-
MW-8	03/07/2011	490.89	28.20	462.69	0.00	0.00	-	1,300	2,800	0.9	0.7	12	2	<250	7,000	-	820	-	-	-	-
MW-8	06/06/2011	490.89	27.38	463.51	0.00	0.00	-	4,300	3,100	0.9	0.7	5	1	<250	2,400	-	2,000	-	-	-	-
MW-8	09/19/2011	490.89	31.81	459.08	0.00	0.00	-	6,800/720	4,600	1	0.8	0.5	0.8	-	-	-	-	-	-	-	-
MW-8	03/09/2012	490.89	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-8	03/12/2012 <sup>5</sup>	490.89	38.48	452.41	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-8	06/04/2012 <sup>4,8</sup>	490.89	37.66	453.23	0.00	0.00	-	73,000/68,000	5,700	1	0.8	2	3	-	<1,500	<54	27,100	259,000	<700	2,000	31,200
MW-8	9/10/2012 <sup>5</sup>	490.89	38.73	452.16	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-8	12/10/2012 <sup>4</sup>	490.89	31.64	459.25	0.00	0.00	-	4,200 / 3,400	5,600	<3	<3	11	<3	-	<1,500	130	1,600	220,000	-	2,600	18,900
MW-8	03/04/2013 <sup>4</sup>	490.89	30.85	460.04	0.00	0.00	-	9,400 / 6,300	4,700	<3	<3	<3	<3	-	<1,500	150	2,500	223,000	-	2,700	22,100

**TABLE 1**  
**GROUNDWATER MONITORING AND SAMPLING DATA**  
**FORMER CHEVRON SERVICE STATION 307233**  
**2259 FIRST STREET**  
**LIVERMORE, CALIFORNIA**

Location	Date	TOC	DTW	GWE	LNAPLT	LNAPL REMOVED	TPH-DRO	TPH-DRO w/ Si Gel	TPH-GRO	B	T	E	X	Nitrate Nitrogen	Sulfate	Total sulfide (dissolved)	Ferrous Iron	Alkalinity, total (as CaCO3)	Alkalinity, phenolphthalein	Methane	Calcium
	Units	ft	ft	ft-amsl	ft	gal	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-8	06/03/2013 <sup>4</sup>	490.89	33.60	457.29	0.00	0.00	-	1,700 / 1,600	5,000	17	0.9	<0.5	1	-	3,000	<54	5,100	301,000	-	2,500	36,400
MW-8	09/09/2013 <sup>4</sup>	490.89	34.73	456.16	0.00	0.00	-	21,000 / 15,000	3,900	3	0.6	<0.5	0.6	-	<1,500	<54	7,100	305,000	-	1,000	34,700
MW-8	12/09/2013 <sup>4</sup>	490.89	33.82	457.07	0.00	0.00	-	19,000 / 13,000	6,800	1	0.7	3	0.9	-	<1,500	220	3,200	219,000	-	2,400	22,000
MW-8	03/27/2014 <sup>4</sup>	490.89	35.58	455.31	0.00	0.00	-	34,000 / 38,000	6,500	1	1	15	2	-	<1,500	240	9,600	185,000	-	3,400	31,900
MW-8	06/19/2014 <sup>5</sup>	490.89	38.52	452.37	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>MW-8</b>	<b>09/11/2014<sup>5</sup></b>	<b>490.89</b>	<b>38.51</b>	<b>452.38</b>	<b>0.00</b>	<b>0.00</b>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-9	05/25/2010 <sup>1</sup>	491.64	29.23	462.41	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-9	05/27/2010	491.64	28.96	462.68	0.00	0.00	<50	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-
MW-9	09/13/2010	491.64	31.85	459.79	0.00	0.00	30,000	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-
MW-9	12/20/2010	491.64	28.95	462.69	0.00	0.00	-	56	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-
MW-9	03/07/2011	491.64	25.67	465.97	0.00	0.00	-	<50	<50	<0.5	<0.5	<0.5	<0.5	<250	172,000	-	48	-	-	-	-
MW-9	06/06/2011	491.64	24.67	466.97	0.00	0.00	-	<50	<50	<0.5	<0.5	<0.5	<0.5	<250	228,000	-	<10	-	-	-	-
MW-9	09/19/2011	491.64	29.46	462.18	0.00	0.00	-	250/<50*	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-
MW-9	03/09/2012 <sup>7</sup>	491.64	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-9	03/12/2012 <sup>4</sup>	491.64	34.27	457.37	0.00	0.00	-	<50/<50*	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-
MW-9	06/04/2012 <sup>7</sup>	491.64	35.80	455.84	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-9	9/10/2012 <sup>4</sup>	491.64	36.53	455.11	0.00	0.00	-	<50 / <50	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-
MW-9	12/10/2012 <sup>10</sup>	491.64	32.80	458.84	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-9	03/04/2013 <sup>4</sup>	491.64	29.67	461.97	0.00	0.00	-	<50 / <50	<50	<0.5	<0.5	<0.5	<0.5	-	135,000	<54	520	342,000	-	15	176,000
MW-9	06/03/2013 <sup>4</sup>	491.64	31.30	460.34	0.00	0.00	-	<50 / <50	<50	<0.5	<0.5	<0.5	<0.5	-	127,000	<54	100	306,000	-	7.9	128,000
MW-9	09/09/2013 <sup>4</sup>	491.64	35.55	456.09	0.00	0.00	-	<50 / <50	<50	<0.5	<0.5	<0.5	<0.5	-	133,000	<54	84	321,000	-	<3.0	74,300
MW-9	12/09/2013 <sup>4</sup>	491.64	34.81	456.83	0.00	0.00	-	<50 / <50	<50	<0.5	<0.5	<0.5	<0.5	-	118,000	<54	<10	299,000	-	<3.0	61,800
MW-9	03/27/2014 <sup>4</sup>	491.64	32.99	458.65	0.00	0.00	-	<50 / <50	<50	<0.5	<0.5	<0.5	<0.5	-	110,000	<54	82	303,000	-	9.2	132,000
MW-9	06/19/2014 <sup>5</sup>	491.64	38.81	452.83	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>MW-9</b>	<b>09/11/2014<sup>11</sup></b>	<b>491.64</b>	<b>-</b>	<b>-</b>	<b>0.00</b>	<b>0.00</b>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-10	03/09/2012 <sup>1</sup>	491.15	28.00	463.15	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-10	03/12/2012 <sup>4</sup>	491.15	28.11	463.04	0.00	0.00	-	440/260	3,100	<1	<1	36	16	-	-	-	-	-	-	-	-
MW-10	06/04/2012 <sup>4</sup>	491.15	29.49	461.66	0.00	0.00	-	750/640	3,300	0.7	1	36	12	-	-	-	-	-	-	-	-
MW-10	09/10/2012 <sup>5</sup>	491.15	32.10	459.05	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA  
 FORMER CHEVRON SERVICE STATION 307233  
 2259 FIRST STREET  
 LIVERMORE, CALIFORNIA

Location	Date	TOC	DTW	GWE	LNAPLT	LNAPL REMOVED	TPH-DRO	TPH-DRO w/ Si Gel	TPH-GRO	B	T	E	X	Nitrate Nitrogen	Sulfate	Total sulfide (dissolved)	Ferrous Iron	Alkalinity, total (as CaCO3)	Alkalinity, phenolphthalein	Methane	Calcium	
	Units	ft	ft	ft-amsl	ft	gal	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	
MW-10	12/10/2012 <sup>4</sup>	491.15	26.03	465.12	0.00	0.00	-	240 / 200	950	<0.5	<0.5	2	2	-	-	-	-	-	-	-	-	-
MW-10	03/04/2013 <sup>4</sup>	491.15	27.55	463.60	0.00	0.00	-	8,300 / 6,100	1,900	<0.5	<0.5	9	4	-	5,800	110	3,600	273,000	-	2,100	27,400	
MW-10	06/03/2013 <sup>4</sup>	491.15	28.79	462.36	0.00	0.00	-	4,700 / 5,300	4,200	0.9	1	32	15	-	<1,500	<54	9,400	252,000	-	5,200	36,700	
MW-10	09/09/2013 <sup>5</sup>	491.15	31.88	459.27	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-10	12/09/2013 <sup>4</sup>	491.15	28.18	462.97	0.00	0.00	-	5,100 / 3,400	6,500	0.8	2	49	17	-	6,000	180	2,900	255,000	-	2,500	24,800	
MW-10	03/27/2014 <sup>4</sup>	491.15	26.85	464.30	0.00	0.00	-	2,500 / 2,400	3,200	<0.5	<0.5	12	3	-	8,300	120	2,200	216,000	-	3,000	23,600	
MW-10	06/19/2014 <sup>5</sup>	491.15	31.89	459.26	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>MW-10</b>	<b>09/11/2014<sup>5</sup></b>	<b>491.15</b>	<b>32.04</b>	<b>459.11</b>	<b>0.00</b>	<b>0.00</b>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-11	03/09/2012 <sup>1</sup>	490.59	31.48	459.11	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-11	03/12/2012 <sup>4</sup>	490.59	33.35	457.24	0.00	0.00	-	160 / <50	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
MW-11	06/04/2012 <sup>5</sup>	490.59	34.22	456.37	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-11	09/10/2012 <sup>5</sup>	490.59	34.48	456.11	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-11	12/10/2012 <sup>4</sup>	490.59	32.50	458.09	0.00	0.00	-	55 / <50	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
MW-11	03/04/2013 <sup>4</sup>	490.59	28.11	462.48	0.00	0.00	-	<50 / <50	<50	<0.5	<0.5	<0.5	<0.5	-	59,600	<54	800	259,000	-	6.9	38,500	
MW-11	06/03/2013 <sup>4</sup>	490.59	31.53	459.06	0.00	0.00	-	690 / 200	<50	<0.5	<0.5	<0.5	<0.5	-	54,400	<54	670	-	-	490	-	
MW-11	09/09/2013 <sup>5</sup>	490.59	34.13	456.46	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-11	12/09/2013 <sup>4</sup>	490.59	31.38	459.21	0.00	0.00	-	220 / <50	100	<0.5	<0.5	<0.5	<0.5	-	72,100	<54	230	284,000	-	210	43,900	
MW-11	03/27/2014 <sup>4</sup>	490.59	31.05	459.54	0.00	0.00	-	230 / 77	<50	<0.5	<0.5	<0.5	<0.5	-	47,600	<54	280	262,000	-	34	36,200	
MW-11	06/19/2014 <sup>5</sup>	490.59	34.23	456.36	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>MW-11</b>	<b>09/11/2014<sup>5</sup></b>	<b>490.59</b>	<b>34.22</b>	<b>456.37</b>	<b>0.00</b>	<b>0.00</b>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-12	03/09/2012 <sup>1</sup>	493.72	25.43	468.29	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-12	03/12/2012 <sup>4</sup>	493.72	26.97	466.75	0.00	0.00	-	1,100/310	3,000	10	1	19	38	-	-	-	-	-	-	-	-	-
MW-12	06/04/2012 <sup>4</sup>	493.72	26.54	467.18	0.00	0.00	-	990/510	4,200	15	2	12	23	-	-	-	-	-	-	-	-	-
MW-12	09/10/2012 <sup>4</sup>	493.72	28.80	464.92	0.00	0.00	-	1,000 / 290	2,500	30	2	2	2	-	-	-	-	-	-	-	-	-
MW-12	12/10/2012 <sup>4</sup>	493.72	25.36	468.36	0.00	0.00	-	840 / 330	2,500	10	<3	<3	<3	-	-	-	-	-	-	-	-	-
MW-12	03/04/2013 <sup>4</sup>	493.72	25.61	468.11	0.00	0.00	-	1,800 / 590	3,200	26	2	20	16	-	19,400	<54	4,700	559,000	-	1,100	80,300	
MW-12	06/03/2013 <sup>4</sup>	493.72	29.50	464.22	0.00	0.00	-	450 / 260	3,000	12	0.8	9	6	-	14,700	<54	3,300	534,000	-	460	73,800	
MW-12	09/09/2013 <sup>4</sup>	493.72	27.32	466.40	0.00	0.00	-	720 / 280	3,300	33	2	19	14	-	9,500	<54	4,500	559,000	-	960	69,200	
MW-12	12/09/2013 <sup>4</sup>	493.72	24.68	469.04	0.00	0.00	-	670 / 260	2,500	19	3	2	1	-	14,900	<54	880	577,000	-	890	70,800	

**TABLE 1**  
**GROUNDWATER MONITORING AND SAMPLING DATA**  
**FORMER CHEVRON SERVICE STATION 307233**  
**2259 FIRST STREET**  
**LIVERMORE, CALIFORNIA**

Location	Date	TOC	DTW	GWE	LNAPLT	LNAPL REMOVED	TPH-DRO	TPH-DRO w/ Si Gel	TPH-GRO	B	T	E	X	Nitrate Nitrogen	Sulfate	Total sulfide (dissolved)	Ferrous Iron	Alkalinity, total (as CaCO3)	Alkalinity, phenolphthalein	Methane	Calcium	
	Units	ft	ft	ft-amsl	ft	gal	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	
MW-12	03/27/2014 <sup>4</sup>	493.72	24.82	468.90	0.00	0.00	-	1,000 / 230	2,100	5	2	1	2	-	3,100	<54	4,300	580,000	-	780	71,800	
MW-12	06/19/2014 <sup>4</sup>	493.72	28.09	465.63	0.00	0.00	-	1,000 / 260	3,000	23	2	18	13	-	-	-	-	-	-	-	-	-
MW-12	09/11/2014 <sup>4</sup>	493.72	31.53	462.19	0.00	0.00	-	640 / 240	2,400	14	1	6	4	-	-	-	-	-	-	-	-	-
QA	05/27/2010	-	-	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
QA	09/13/2010	-	-	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
QA	12/20/2010	-	-	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
QA	03/07/2011	-	-	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
QA	06/06/2011	-	-	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
QA	06/22/2011	-	-	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
QA	09/19/2011	-	-	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
QA	03/12/2012	-	-	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
QA	06/03/2013	-	-	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
QA	09/09/2013	-	-	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
QA	12/09/2013	-	-	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
QA	03/27/2014	-	-	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
QA	06/19/2014	-	-	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
QA	09/11/2014	-	-	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-

**Abbreviations and Notes:**

TOC = Top of casing

DTW = Depth to water

GWE = Groundwater elevation

(ft-amsl) = Feet above mean sea level

TOC elevations were surveyed on April 19, 2010 by Morrow Surveying. Vertical datum is NAVD 88 from GPS observations

ft = Feet

µg/L = Micrograms per liter

TPH-DRO = Total petroleum hydrocarbons - diesel range organics

TPH-GRO = Total petroleum hydrocarbons - gasoline range organics

VOCS = Volatile organic compounds

B = Benzene

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA  
 FORMER CHEVRON SERVICE STATION 307233  
 2259 FIRST STREET  
 LIVERMORE, CALIFORNIA

Location	Date	TOC	DTW	GWE	LNAPL	LNAPL REMOVED	TPH-DRO	TPH-DRO w/ Si Gel	TPH-GRO	B	T	E	X	Nitrate Nitrogen	Sulfate	Total sulfide (dissolved)	Ferrous Iron	Alkalinity, total (as CaCO3)	Alkalinity, phenolphthalein	Methane	Calcium
Units	ft	ft	ft-amsl	ft	gal	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L

T = Toluene

E = Ethylbenzene

X = Xylenes (Total)

-- = Not available / not applicable

<x = Not detected at or above laboratory method detection limit

J = Estimated value; the result is ≥ the method detection limit (MDL) and < limit of quantitation (LOQ)

- 1 Well development performed.
- 2 Second quarter 2011 resampling event because MW-5 and MW-7 bottles for TPHg and BTEX analysis were switched during the original 6/6/2011 sampling event.
- 3 Monitored only due to the presence of NAPL.
- 4 Silica Gel Cleanup / 10 gram Column Silica Gel Cleanup with Capric Acid Reverse Surrogate.
- 5 Insufficient water to sample.
- 6 Sulfate canister in well
- 7 Monitoring and sampled during the first and third quarters only
- 8 Insufficient water for purging, so a grab-groundwater samples was collected
- 9 Skimmer in well
- 10 Monitored only
- 11 Dry Well



ATTACHMENT A

MONITORING DATA PACKAGE



# GETTLER-RYAN INC.



## TRANSMITTAL

September 22, 2014  
G-R #385876

TO: Mr. Brian Silva  
Conestoga-Rovers & Associates  
10969 Trade Center Drive, Suite 107  
Rancho Cordova, California 95670

FROM: Deanna L. Harding  
Project Coordinator  
Gettler-Ryan Inc.  
6805 Sierra Court, Suite G  
Dublin, California 94568

RE: **Former Chevron Service Station  
#307233  
2259 First Street  
Livermore, California**

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DESCRIPTION
VIA PDF	Groundwater Monitoring and Sampling Data Package Second Semi-Annual Event of September 11, 2014

### COMMENTS:

Pursuant to your request, we are providing you with copies of the above referenced data for your use.

Please provide us the updated historical data prior to the next monitoring and sampling event for our field use.

Please feel free to contact me if you have any comments/questions.

trans/9-0271

# WELL CONDITION STATUS SHEET

Client/  
 Facility #: **Chevron #307233**  
 Site Address: **2259 First Street**  
 City: **Livermore, CA**

Job #: **385876**  
 Event Date: **9/21/14**  
 Sampler: **307**

WELL ID	Vault Frame Condition	Gasket/O-Ring (M) Missing (R) Replaced	Bolts (M) Missing (R) Replaced	Bolt Flanges B=Broken S=Stripped R=Retap	Apron Condition C=Cracked B=Broken G=Gone	Grout Seal (Deficient) Inches from TOC	Casing (Condition prevents tight cap seal)	REPLACE LOCK Y/N	REPLACE CAP Y/N	WELL VAULT Manufacture/Size/ # of Bolts	Pictures Taken Y/N
MW-7	OK									8" emco	
MU-8	OK									12" emco	
MW-1	OK									↓ ↓ ↓ ↓ ↓ ↓	
MW-11	OK										
MU-10	OK								8" morris		
MU-5	OK								<del>8" morris</del> 12" emco		
MW-2	OK								12" emco		

Comments \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

# WELL CONDITION STATUS SHEET

Client/  
 Facility #: Chevron #307233  
 Site Address: 2259 First Street  
 City: Livermore, CA

Job #: 385876  
 Event Date: 9.11.14  
 Sampler: FT

WELL ID	Vault Frame Condition	Gasket/O-Ring (M) Missing (R) Replaced	Bolts (M) Missing (R) Replaced	Bolt Flanges B=Broken S=Stripped R=Retap	Apron Condition C=Cracked B=Broken G=Gone	Grout Seal (Deficient) Inches from TOC	Casing (Condition prevents tight cap seal)	REPLACE LOCK Y/ <input checked="" type="checkbox"/> N	REPLACE CAP Y/ <input checked="" type="checkbox"/> N	WELL VAULT Manufacture/Size/ # of Bolts	Pictures Taken Y/ <input checked="" type="checkbox"/> N
MW-3	OK										
MW-4	OK									Monmsad 6" / 2	
MW-6	OK										
MW-9	OK										
MW-12	OK			B=1	OK					8" Bor (2)	

Comments: MW-4, 6 & 9 NEED NEW WELL COVERS, DAMAGED BOLT HOLES.

## 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.

A laboratory supplied trip blank accompanies each sampling set. The trip blank is analyzed for some or all of the same compounds as the groundwater samples.

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





# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #307233  
 Site Address: 2259 First Street  
 City: Livermore, CA

Job Number: 385876  
 Event Date: 9/11/14 (inclusive)  
 Sampler: JH

Well ID: MW-1  
 Well Diameter: 2 in.  
 Total Depth: 58.84 ft.  
 Depth to Water: 51.68 ft.  
7.16 xVF = 0.17 = 1.21

Date Monitored: 9/11/14

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

Check if water column is less than 0.50 ft.

x3 case volume = Estimated Purge Volume: 3.65 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 53.11

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

**Sampling Equipment:**  
 Disposable Bailer: X  
 Pressure Bailer: \_\_\_\_\_  
 Metal Filters: \_\_\_\_\_  
 Peristaltic Pump: \_\_\_\_\_  
 QED Bladder Pump: \_\_\_\_\_  
 Other: \_\_\_\_\_

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

Start Time (purge): 1015 Weather Conditions: Clear  
 Sample Time/Date: 1100 / 9/11/14 Water Color: Cloudy Odor: Y / 0  
 Approx. Flow Rate: \_\_\_\_\_ gpm. Sediment Description: Lisht  
 Did well de-water? No If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal. DTW @ Sampling: 53.02

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS/mS / µmhos/cm)	Temperature (°C / °F)	D.O. (mg/L)	ORP (mV)
<u>1019</u>	<u>1.5</u>	<u>7.61</u>	<u>1075</u>	<u>20.1</u>	_____	_____
<u>1023</u>	<u>3.0</u>	<u>7.53</u>	<u>1061</u>	<u>20.0</u>	_____	_____
<u>1027</u>	<u>4.0</u>	<u>7.37</u>	<u>1042</u>	<u>19.9</u>	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-1</u>	<u>6</u> x voa vial	<u>YES</u>	<u>HCL</u>	<u>LANCASTER</u>	<u>TPH-GRO(8015)/BTEX(8260)</u>
	<u>3</u> x 500ml ambers	<u>YES</u>	<u>NP</u>	<u>LANCASTER</u>	<u>TPH-DRO w/sgc COLUMN/TPH-DRO w/sgc(8015)</u>
	<del>1</del> x voa vial	<u>YES</u>	<u>NP</u>	<u>CHEVRON RTC</u>	<u>CHEVRON STUDY SAMPLES</u>

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

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



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #307233  
 Site Address: 2259 First Street  
 City: Livermore, CA

Job Number: 385876  
 Event Date: 9/11/14 (inclusive)  
 Sampler: 311

Well ID: MW-2  
 Well Diameter: 2 in.  
 Total Depth: 58.60 ft.  
 Depth to Water: 52.06 ft.  
6.54 xVF .17 = 1.11

Date Monitored: 9/11/14

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]: 53.36 gal.

### Purge Equipment:

Disposable Bailer: X  
 Stainless Steel Bailer: \_\_\_\_\_  
 Stack Pump: \_\_\_\_\_  
 Peristaltic Pump: \_\_\_\_\_  
 QED Bladder Pump: \_\_\_\_\_  
 Other: \_\_\_\_\_

### Sampling Equipment:

Disposable Bailer: X  
 Pressure Bailer: \_\_\_\_\_  
 Metal Filters: \_\_\_\_\_  
 Peristaltic Pump: \_\_\_\_\_  
 QED Bladder Pump: \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started:	_____ (2400 hrs)
Time Completed:	_____ (2400 hrs)
Depth to Product:	_____ ft
Depth to Water:	_____ ft
Hydrocarbon Thickness:	_____ ft
Visual Confirmation/Description:	_____
Skimmer / Absorbant Sock (circle one)	_____
Amt Removed from Skimmer:	_____ ltr
Amt Removed from Well:	_____ ltr
Water Removed:	_____ ltr

Start Time (purge): 0815  
 Sample Time/Date: 0850 / 9/11/14  
 Approx. Flow Rate: — gpm.  
 Did well de-water? NO If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Weather Conditions: clear  
 Water Color: cloudy Odor: Y (N)  
 Sediment Description: LIGHT  
 DTW @ Sampling: 58.51

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS/mS) (µmhos/cm)	Temperature (°F)	D.O. (mg/L)	ORP (mV)
<u>0818</u>	<u>1</u>	<u>7.61</u>	<u>699</u>	<u>19.9</u>	_____	_____
<u>0821</u>	<u>2</u>	<u>7.55</u>	<u>683</u>	<u>19.8</u>	_____	_____
<u>0826</u>	<u>3.5</u>	<u>7.43</u>	<u>676</u>	<u>19.7</u>	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-2</u>	<u>6</u> x voa vial	<u>YES</u>	<u>HCL</u>	<u>LANCASTER</u>	<u>TPH-GRO(8015)/BTEX(8260)</u>
	<u>2</u> x 500ml ambers	<u>YES</u>	<u>NP</u>	<u>LANCASTER</u>	<u>TPH-DRO w/sgc COLUMN/TPH-DRO w/sgc(8015)</u>
	<u>-x voa vial</u>	<u>YES</u>	<u>NP</u>	<u>CHEVRON RTC</u>	<u>CHEVRON STUDY SAMPLES</u>

### COMMENTS:

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



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #307233  
 Site Address: 2259 First Street  
 City: Livermore, CA

Job Number: 385876  
 Event Date: 9.11.14 (inclusive)  
 Sampler: FT

Well ID: MW-3  
 Well Diameter: 2 in.  
 Total Depth: 59.41 ft.  
 Depth to Water: 51.88 ft.  
7.53 xVF .17 = 1.28

Date Monitored: 9.11.14

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

Check if water column is less than 0.50 ft.  
 x3 case volume = Estimated Purge Volume: 4.0 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 53.38

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

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

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

Start Time (purge): 0830 Weather Conditions: SUNNY  
 Sample Time/Date: 0855 / 9.11.14 Water Color: LT. BROW. Odor: Y / N  
 Approx. Flow Rate: / gpm. Sediment Description: S. SILTY  
 Did well de-water? NO If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal. DTW @ Sampling: 52.04

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS/mS / µmhos/cm)	Temperature (°C / F)	D.O. (mg/L)	ORP (mV)
<u>0834</u>	<u>1.5</u>	<u>7.33</u>	<u>752</u>	<u>20.1</u>	/	/
<u>0838</u>	<u>3.0</u>	<u>7.30</u>	<u>756</u>	<u>20.3</u>	/	/
<u>0842</u>	<u>4.0</u>	<u>7.28</u>	<u>760</u>	<u>20.5</u>	/	/

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-3</u>	<u>6</u> x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)
	<u>2</u> x 500ml ambers	YES	NP	LANCASTER	TPH-DRO w/sgc COLUMN/TPH-DRO w/sgc(8015)
	x voa vial	YES	NP	CHEVRON RTC	CHEVRON STUDY SAMPLES

COMMENTS: Monitored 6" ok

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



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #307233 Job Number: 385876  
 Site Address: 2259 First Street Event Date: 9.11.14 (inclusive)  
 City: Livermore, CA Sampler: FR

Well ID: MW-4 Date Monitored: 9.11.14  
 Well Diameter: 2 in.  
 Total Depth: 58.93 ft.  
 Depth to Water: 53.21 ft.  Check if water column is less than 0.50 ft.  
5.72 xVF .17 = .97 x3 case volume = Estimated Purge Volume: 3.0 gal.  
 Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 54.35

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 \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

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

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

Start Time (purge): 0940 Weather Conditions: SUNNY  
 Sample Time/Date: 1000 19.11.14 Water Color: Bwn. Odor: Y / 0  
 Approx. Flow Rate: \_\_\_\_\_ gpm. Sediment Description: SILTY  
 Did well de-water? No If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal. DTW @ Sampling: 53.91

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS mS µmhos/cm)	Temperature (° / F)	D.O. (mg/L)	ORP (mV)
<u>0943</u>	<u>1.0</u>	<u>7.71</u>	<u>816</u>	<u>19.9</u>	_____	_____
<u>0946</u>	<u>2.0</u>	<u>7.69</u>	<u>821</u>	<u>20.1</u>	_____	_____
<u>0949</u>	<u>3.0</u>	<u>7.67</u>	<u>826</u>	<u>20.5</u>	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-4</u>	<u>6</u> x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTX(8260)
	<u>2</u> x 500ml ambers	YES	NP	LANCASTER	TPH-DRO w/sgc COLUMN/TPH-DRO w/sgc(8015)
	x voa vial	YES	NP	CHEVRON RTC	CHEVRON STUDY SAMPLES

COMMENTS: MONITOR 6" (NEEDS NEW WELL COVER, DAMAGED BOLT HOLES ON COVER)

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



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #307233  
 Site Address: 2259 First Street  
 City: Livermore, CA

Job Number: 385876  
 Event Date: 9/11/14 (inclusive)  
 Sampler: JH

Well ID: MW-5  
 Well Diameter: 2 in.  
 Total Depth: 59.91 ft.  
 Depth to Water: 52.40 ft.  
7.51 xVF .17 = 1.27

Date Monitored: 9/11/14

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

Check if water column is less than 0.50 ft.

x3 case volume = Estimated Purge Volume: 3.83 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 53.90

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

**Sampling Equipment:**  
 Disposable Bailer: X  
 Pressure Bailer: \_\_\_\_\_  
 Metal Filters: \_\_\_\_\_  
 Peristaltic Pump: \_\_\_\_\_  
 QED Bladder Pump: \_\_\_\_\_  
 Other: \_\_\_\_\_

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

Start Time (purge): 0905  
 Sample Time/Date: 0940 1 9/11/14  
 Approx. Flow Rate: \_\_\_\_\_ gpm.  
 Did well de-water? no If yes, Time: \_\_\_\_\_

Weather Conditions: clear  
 Water Color: cloudy Odor: Y / N  
 Sediment Description: Lisht  
 Volume: \_\_\_\_\_ gal. DTW @ Sampling: 53.61

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS/cm)	Temperature (°F)	D.O. (mg/L)	ORP (mV)
<u>0908</u>	<u>1</u>	<u>7.89</u>	<u>768</u>	<u>19.8</u>	_____	_____
<u>0912</u>	<u>2.5</u>	<u>7.64</u>	<u>743</u>	<u>19.9</u>	_____	_____
<u>0917</u>	<u>4.0</u>	<u>7.57</u>	<u>726</u>	<u>19.8</u>	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-5</u>	<u>6</u> x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)
	<u>2</u> x 500ml ambers	YES	NP	LANCASTER	TPH-DRO w/sgc COLUMN/TPH-DRO w/sgc(8015)
	<del>x voa vial</del>	YES	NP	CHEVRON RTC	CHEVRON STUDY SAMPLES

COMMENTS: 12" emco

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



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #307233 Job Number: 385876  
 Site Address: 2259 First Street Event Date: 9.11.14 (inclusive)  
 City: Livermore, CA Sampler: FR

Well ID: MW-6 Date Monitored: 9.11.14  
 Well Diameter: 2 in.  
 Total Depth: 59.09 ft.  
 Depth to Water: 32.72 ft.  Check if water column is less than 0.50 ft.  
6.37 xVF .17 = 1.08 x3 case volume = Estimated Purge Volume: 3.0 gal.  
 Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 53.99

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 \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

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

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

Start Time (purge): 0910 Weather Conditions: SUNNY  
 Sample Time/Date: 0920 / 9.11.14 Water Color: low Odor: Y / 10  
 Approx. Flow Rate: \_\_\_\_\_ gpm. Sediment Description: SILTY  
 Did well de-water? NO If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal. DTW @ Sampling: 53.10

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (mS μmhos/cm)	Temperature (° / F)	D.O. (mg/L)	ORP (mV)
<u>0903</u>	<u>1.0</u>	<u>7.65</u>	<u>802</u>	<u>20.2</u>	_____	_____
<u>0906</u>	<u>2.0</u>	<u>7.63</u>	<u>808</u>	<u>20.5</u>	_____	_____
<u>0909</u>	<u>3.0</u>	<u>7.61</u>	<u>813</u>	<u>20.9</u>	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-6</u>	<u>6</u> x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)
	<u>2</u> x 500ml ambers	YES	NP	LANCASTER	TPH-DRO w/sgc COLUMN/TPH-DRO w/sgc(8015)
	x voa vial	YES	NP	CHEVRON RTC	CHEVRON STUDY SAMPLES

COMMENTS: MONITOR 6" (NEEDS NEW WELL COVER, DAMAGED BOLT HOLES ON COVER)

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



# GETTLER-RYAN Inc.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #307233  
Site Address: 2259 First Street  
City: Livermore, CA

Job Number: 385876  
Event Date: 9/11/14 (inclusive)  
Sampler: JH

Well ID: MW-7  
Well Diameter: 2 in.  
Total Depth: 32.70 ft.  
Depth to Water: 32.40 ft.  
.30 xVF = \_\_\_\_\_ x3 case volume = Estimated Purge Volume: \_\_\_\_\_ gal.

Date Monitored: 9/11/14

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

Check if water column is less than 0.50 ft.

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

### Purge Equipment:

Disposable Bailer \_\_\_\_\_  
Stainless Steel Bailer \_\_\_\_\_  
Stack Pump \_\_\_\_\_  
Peristaltic Pump \_\_\_\_\_  
QED Bladder Pump \_\_\_\_\_  
Other: \_\_\_\_\_

### Sampling Equipment:

Disposable Bailer \_\_\_\_\_  
Pressure Bailer \_\_\_\_\_  
Metal Filters \_\_\_\_\_  
Peristaltic Pump \_\_\_\_\_  
QED Bladder Pump \_\_\_\_\_  
Other: \_\_\_\_\_

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

Start Time (purge): \_\_\_\_\_ Weather Conditions: \_\_\_\_\_  
Sample Time/Date: / Water Color: \_\_\_\_\_ Odor: Y/N Strong  
Approx. Flow Rate: \_\_\_\_\_ gpm. Sediment Description: \_\_\_\_\_  
Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal. DTW @ Sampling: \_\_\_\_\_

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

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-	x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)
	x 500ml ambers	YES	NP	LANCASTER	TPH-DRO w/sgc COLUMN/TPH-DRO w/sgc(8015)
	x voa vial	YES	NP	CHEVRON RTC	CHEVRON STUDY SAMPLES

COMMENTS: Skimmer in Well - Insufficient H<sub>2</sub>O - No Sol<sub>4</sub>

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



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #307233  
 Site Address: 2259 First Street  
 City: Livermore, CA

Job Number: 385876  
 Event Date: 9/11/14 (inclusive)  
 Sampler: JH

Well ID: MW-8  
 Well Diameter: 2 in.  
 Total Depth: 38.62 ft.  
 Depth to Water: 38.51 ft.  
.11 xVF = \_\_\_\_\_ x3 case volume = Estimated Purge Volume: \_\_\_\_\_ gal.

Date Monitored: 9/11/14

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

Check if water column is less than 0.50 ft.

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

### Purge Equipment:

Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

### Sampling Equipment:

Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Metal Filters \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started:	_____ (2400 hrs)
Time Completed:	_____ (2400 hrs)
Depth to Product:	_____ ft
Depth to Water:	_____ ft
Hydrocarbon Thickness:	_____ ft
Visual Confirmation/Description:	_____
Skimmer / Absorbant Sock (circle one)	
Amt Removed from Skimmer:	_____ ltr
Amt Removed from Well:	_____ ltr
Water Removed:	_____ ltr

Start Time (purge): \_\_\_\_\_  
 Sample Time/Date: \_\_\_\_\_ / \_\_\_\_\_  
 Approx. Flow Rate: \_\_\_\_\_ gpm.  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_

Weather Conditions: \_\_\_\_\_  
 Water Color: \_\_\_\_\_ Odor: Y / N  
 Sediment Description: \_\_\_\_\_  
 Volume: \_\_\_\_\_ gal. DTW @ Sampling: \_\_\_\_\_

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

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-	x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)
	x 500ml ambers	YES	NP	LANCASTER	TPH-DRO w/sgc COLUMN/TPH-DRO w/sgc(8015)
	x voa vial	YES	NP	CHEVRON RTC	CHEVRON STUDY SAMPLES

### COMMENTS:

INSUFFICIENT H2O

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





# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #307233  
 Site Address: 2259 First Street  
 City: Livermore, CA

Job Number: 385876  
 Event Date: 9.11.14 (inclusive)  
 Sampler: FT

Well ID: MW-9  
 Well Diameter: 2 in.  
 Total Depth: 39.54 ft.  
 Depth to Water: DRY ft.  
NA xVF \_\_\_\_\_ = \_\_\_\_\_ x3 case volume = Estimated Purge Volume: \_\_\_\_\_ gal.

Date Monitored: 9.11.14

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

Check if water column is less than 0.50 ft.

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

### Purge Equipment:

Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

### Sampling Equipment:

Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Metal Filters \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started:	_____ (2400 hrs)
Time Completed:	_____ (2400 hrs)
Depth to Product:	_____ ft
Depth to Water:	_____ ft
Hydrocarbon Thickness:	_____ ft
Visual Confirmation/Description:	_____
Skimmer / Absorbant Sock (circle one)	_____
Amt Removed from Skimmer:	_____ ltr
Amt Removed from Well:	_____ ltr
Water Removed:	_____ ltr

Start Time (purge): \_\_\_\_\_  
 Sample Time/Date: \_\_\_\_\_ / \_\_\_\_\_  
 Approx. Flow Rate: \_\_\_\_\_ gpm.  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_

Weather Conditions: \_\_\_\_\_  
 Water Color: \_\_\_\_\_ Odor: Y / N  
 Sediment Description: \_\_\_\_\_  
 Volume: \_\_\_\_\_ gal. DTW @ Sampling: \_\_\_\_\_

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

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-	x vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)
	x 500ml ambers	YES	NP	LANCASTER	TPH-DRO w/sgc COLUMN/TPH-DRO w/sgc(8015)
	x vial	YES	NP	CHEVRON RTC	CHEVRON STUDY SAMPLES

### COMMENTS:

Dry well  
MONITOR 6" (NEEDS NEW WELL COVER, DAMAGED BOLT HOLES ON COVER)

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



# GETTLER-RYAN Inc.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #307233  
 Site Address: 2259 First Street  
 City: Livermore, CA

Job Number: 385876  
 Event Date: 9/11/14 (inclusive)  
 Sampler: JH

Well ID: MW-10  
 Well Diameter: 2 in.  
 Total Depth: 32.09 ft.  
 Depth to Water: 32.04 ft.  
.05 xVF = \_\_\_\_\_ x3 case volume = Estimated Purge Volume: \_\_\_\_\_ gal.

Date Monitored: 9/11/14

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

Check if water column is less than 0.50 ft.

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

**Purge Equipment:**

Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

**Sampling Equipment:**

Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Metal Filters \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started:	_____ (2400 hrs)
Time Completed:	_____ (2400 hrs)
Depth to Product:	_____ ft
Depth to Water:	_____ ft
Hydrocarbon Thickness:	_____ ft
Visual Confirmation/Description:	_____
Skimmer / Absorbant Sock (circle one)	
Amt Removed from Skimmer:	_____ ltr
Amt Removed from Well:	_____ ltr
Water Removed:	_____ ltr

Start Time (purge): \_\_\_\_\_  
 Sample Time/Date: \_\_\_\_\_ / \_\_\_\_\_  
 Approx. Flow Rate: \_\_\_\_\_ gpm.  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_

Weather Conditions: \_\_\_\_\_  
 Water Color: \_\_\_\_\_ Odor: Y / N  
 Sediment Description: \_\_\_\_\_  
 Volume: \_\_\_\_\_ gal. DTW @ Sampling: \_\_\_\_\_

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

**LABORATORY INFORMATION**

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-	x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)
	x 500ml ambers	YES	NP	LANCASTER	TPH-DRO w/sgc COLUMN/TPH-DRO w/sgc(8015)
	x voa vial	YES	NP	CHEVRON RTC	CHEVRON STUDY SAMPLES

COMMENTS: INSUFFICIENT H<sub>2</sub>O

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



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #307233  
 Site Address: 2259 First Street  
 City: Livermore, CA

Job Number: 385876  
 Event Date: 9/11/14 (inclusive)  
 Sampler: JH

Well ID: MW-11  
 Well Diameter: 2 in.  
 Total Depth: 34.71 ft.  
 Depth to Water: 34.22 ft.

Date Monitored: 9/11/14

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.

.49 xVF = \_\_\_\_\_ x3 case volume = Estimated Purge Volume: \_\_\_\_\_ gal.

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

### Purge Equipment:

Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

### Sampling Equipment:

Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Metal Filters \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: _____ (2400 hrs)
Time Completed: _____ (2400 hrs)
Depth to Product: _____ ft
Depth to Water: _____ ft
Hydrocarbon Thickness: _____ ft
Visual Confirmation/Description: _____
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: _____ ltr
Amt Removed from Well: _____ ltr
Water Removed: _____ ltr

Start Time (purge): \_\_\_\_\_ Weather Conditions: \_\_\_\_\_  
 Sample Time/Date: \_\_\_\_\_ / \_\_\_\_\_ Water Color: \_\_\_\_\_ Odor: Y / N \_\_\_\_\_  
 Approx. Flow Rate: \_\_\_\_\_ gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal. DTW @ Sampling: \_\_\_\_\_

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

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-	x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)
	x 500ml ambers	YES	NP	LANCASTER	TPH-DRO w/sgc COLUMN/TPH-DRO w/sgc(8015)
	x voa vial	YES	NP	CHEVRON RTC	CHEVRON STUDY SAMPLES

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

*In sufficient H2O*

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



# GETTLER-RYAN Inc.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #307233  
 Site Address: 2259 First Street  
 City: Livermore, CA

Job Number: 385876  
 Event Date: 9.11.14 (inclusive)  
 Sampler: FR

Well ID: MW-12  
 Well Diameter: 2 in.  
 Total Depth: 34.46 ft.  
 Depth to Water: 31.53 ft.  
2.93 xVF = .17 = .49

Date Monitored: 9.11.14

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

Check if water column is less than 0.50 ft.

x3 case volume = Estimated Purge Volume: 1.5 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 32.11

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

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

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

Start Time (purge): 1020  
 Sample Time/Date: 1100 / 9.11.14  
 Approx. Flow Rate: \_\_\_\_\_ gpm.  
 Did well de-water? No If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Weather Conditions: Sunny  
 Water Color: LT. Gray Odor: D/N SLIGHT  
 Sediment Description: S. SILTY  
 DTW @ Sampling: 32.08

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS/mS / µmhos/cm)	Temperature (°C / F)	D.O. (mg/L)	ORP (mV)
<u>1022</u>	<u>.50</u>	<u>7.48</u>	<u>915</u>	<u>20.5</u>	_____	_____
<u>1024</u>	<u>1.0</u>	<u>7.47</u>	<u>918</u>	<u>20.5</u>	_____	_____
<u>1027</u>	<u>1.5</u>	<u>7.45</u>	<u>922</u>	<u>20.7</u>	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-12</u>	<u>6</u> x voa vial	<u>YES</u>	<u>HCL</u>	<u>LANCASTER</u>	<u>TPH-GRO(8015)/BTEX(8260)</u>
	<u>2</u> x 500ml ambers	<u>YES</u>	<u>NP</u>	<u>LANCASTER</u>	<u>TPH-DRO w/sgc COLUMN/TPH-DRO w/sgc(8015)</u>
	<u>2</u> x voa vial	<u>YES</u>	<u>NP</u>	<u>CHEVRON RTC</u>	<u>CHEVRON STUDY SAMPLES</u>

COMMENTS: 8" Box (IBF)

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

# Chevron California Region Analysis Request/Chain of Custody



**Lancaster Laboratories**

544  
091114-01

Acct. # \_\_\_\_\_

For Eurofins Lancaster Laboratories use only  
Group # \_\_\_\_\_ Sample # \_\_\_\_\_  
Instructions on reverse side correspond with circled numbers.

<b>1 Client Information</b>				<b>4 Matrix</b>				<b>5 Analyses Requested</b>																																											
Facility # <b>SS#307233-OML G-R#385876</b> WBS Global ID#T0600196622				<input type="checkbox"/> Sediment <input checked="" type="checkbox"/> Ground <input type="checkbox"/> Surface  <input type="checkbox"/> Potable <input type="checkbox"/> NPDES <input type="checkbox"/> Air  Total Number of Containers _____				<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>BTEX + MTBE</td> <td>8021</td> <td>8021</td> <td>8260</td> <td>8260</td> <td>TPH-GRO</td> <td>8015</td> <td>8015</td> <td>TPH-DRO 8015 without Silica Gel Cleanup</td> <td>TPH-DRO 8015 with Silica Gel Cleanup</td> <td>8260 Full Scan</td> <td>Oxygenates</td> <td>Total Lead</td> <td>Method</td> <td>Dissolved Lead</td> <td>Method</td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>												BTEX + MTBE	8021	8021	8260	8260	TPH-GRO	8015	8015	TPH-DRO 8015 without Silica Gel Cleanup	TPH-DRO 8015 with Silica Gel Cleanup	8260 Full Scan	Oxygenates	Total Lead	Method	Dissolved Lead	Method	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>						
BTEX + MTBE	8021	8021	8260																	8260	TPH-GRO	8015	8015	TPH-DRO 8015 without Silica Gel Cleanup	TPH-DRO 8015 with Silica Gel Cleanup	8260 Full Scan	Oxygenates	Total Lead	Method	Dissolved Lead	Method																				
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>																	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>																										
Site Address <b>2239 FIRST STREET, LIVERMORE, CA</b>																																																			
Chevron PM <b>CM</b> CRASB Lead Consultant <b>Silva</b>																																																			
Consultant/Office <b>Getter-Ryan, Inc., 6805 Sierra Court, Suite G, Dublin, CA 94568</b>																																																			
Consultant Project Mgr. <b>Deanna L. Harding, deanna@grinc.com</b>																																																			
Consultant Phone # <b>(925) 551-7444 x180</b>																																																			
Sampler <i>Sim Hez...</i>																																																			

SCR #: \_\_\_\_\_

- Results in Dry Weight
- 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

2 Sample Identification	Soil Depth	3 Collected		Grab	Composite	Soil	Water	Oil	Total Number of Containers	BTEX + MTBE	8021	8021	8260	TPH-GRO	8015	8015	TPH-DRO 8015 without Silica Gel Cleanup	TPH-DRO 8015 with Silica Gel Cleanup	8260 Full Scan	Oxygenates	Total Lead	Method	Dissolved Lead	Method	
		Date	Time																						
QA		9/11/14		X			X			X				X			X	X							
MW-1			1100	X			X			X				X			X	X							
MW-2			0850	X			X			X				X			X	X							
MW-3			0855	X			X			X				X			X	X							
MW-4			1000	X			X			X				X			X	X							
MW-5			0940	X			X			X				X			X	X							
MW-6			0920	X			X			X				X			X	X							
MW-12			1100	X			X			X				X			X	X							

**6 Remarks**

**Please report DRO w/sgc using 10 grams of silica and also report 1 gram shake results**

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

Standard 5 day 4 day  
72 hour 48 hour 24 hour

**EDF/EDF**

Relinquished by _____	Date 9/11/14	Time _____	Received by _____	Date 9.11.14	Time _____
Relinquished by _____	Date 9.11.14	Time 1400	Received by _____	Date 11 SEP 14	Time 1400

**8 Data Package (circle if required)**

Type I - Full  
Type VI (Raw Data)

**EDD (circle if required)**

EDFFLAT (default)  
Other: \_\_\_\_\_

Relinquished by Commercial Carrier:

UPS \_\_\_\_\_ FedEx \_\_\_\_\_ Other \_\_\_\_\_

Temperature Upon Receipt \_\_\_\_\_ °C

Custody Seals Intact? Yes No



ATTACHMENT B

LABORATORY ANALYTICAL REPORT

## ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental  
2425 New Holland Pike  
Lancaster, PA 17601

Prepared for:

Chevron  
L4310  
6001 Bollinger Canyon Rd.  
San Ramon CA 94583

September 24, 2014

Project: 307233

Submittal Date: 09/12/2014  
Group Number: 1502938  
PO Number: 0015141332  
Release Number: CMACLEOD

State of Sample Origin: CA

<u>Client Sample Description</u>	<u>Lancaster Labs (LL) #</u>
QA-T-140911 NA Water	7597291
MW-1-W-140911 Grab Groundwater	7597292
MW-1-W-140911 Grab Groundwater	7597293
MW-2-W-140911 Grab Groundwater	7597294
MW-2-W-140911 Grab Groundwater	7597295
MW-3-W-140911 Grab Groundwater	7597296
MW-3-W-140911 Grab Groundwater	7597297
MW-4-W-140911 Grab Groundwater	7597298
MW-4-W-140911 Grab Groundwater	7597299
MW-5-W-140911 Grab Groundwater	7597300
MW-5-W-140911 Grab Groundwater	7597301
MW-6-W-140911 Grab Groundwater	7597302
MW-6-W-140911 Grab Groundwater	7597303
MW-12-W-140911 Grab Groundwater	7597304
MW-12-W-140911 Grab Groundwater	7597305

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

ELECTRONIC COPY TO	Gettler-Ryan Inc.	Attn: Gettler Ryan
ELECTRONIC COPY TO	Chevron c/o CRA	Attn: Report Contact
ELECTRONIC COPY TO	Chevron	Attn: Anna Avina
ELECTRONIC COPY TO	CRA	Attn: Brian Silva



Respectfully Submitted,

A handwritten signature in black ink that reads "Amek Carter". The signature is written in a cursive style with a long horizontal stroke at the end of the name.

Amek Carter  
Specialist

(717) 556-7252

Sample Description: QA-T-140911 NA Water  
Facility# 307233 Job# 385876 GRD  
2259 First St-Livermore T0600196622

LL Sample # WW 7597291  
LL Group # 1502938  
Account # 10904

Project Name: 307233

Collected: 09/11/2014

Chevron

Submitted: 09/12/2014 09:15

L4310

Reported: 09/24/2014 13:16

6001 Bollinger Canyon Rd.  
San Ramon CA 94583

FSLQA

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles SW-846 8260B ug/l</b>					
10943	Benzene	71-43-2	N.D.	0.5	1
10943	Ethylbenzene	100-41-4	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 ug/l</b>					
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	1

### General Sample Comments

CA ELAP Lab Certification No. 2792

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 8260B Water	SW-846 8260B	1	F142581AA	09/15/2014 08:09	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F142581AA	09/15/2014 08:09	Anita M Dale	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	14258B94A	09/16/2014 12:16	Miranda P Tillinghast	1
01146	GC VOA Water Prep	SW-846 5030B	1	14258B94A	09/16/2014 12:16	Miranda P Tillinghast	1

Sample Description: MW-1-W-140911 Grab Groundwater  
Facility# 307233 Job# 385876 GRD  
2259 First St-Livermore T0600196622

LL Sample # WW 7597292  
LL Group # 1502938  
Account # 10904

Project Name: 307233

Collected: 09/11/2014 11:00 by JH Chevron  
L4310  
Submitted: 09/12/2014 09:15 6001 Bollinger Canyon Rd.  
Reported: 09/24/2014 13:16 San Ramon CA 94583

FSL01

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	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 w/Si</b>					
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	N.D.	50	1
The reverse surrogate, capric acid, is present at <1%.					

### General Sample Comments

CA ELAP Lab Certification No. 2792

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 8260B Water	SW-846 8260B	1	F142581AA	09/15/2014 08:31	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F142581AA	09/15/2014 08:31	Anita M Dale	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	14258B94A	09/16/2014 13:07	Miranda P Tillinghast	1
01146	GC VOA Water Prep	SW-846 5030B	1	14258B94A	09/16/2014 13:07	Miranda P Tillinghast	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	142560031A	09/18/2014 10:57	Christine E Dolman	1
11180	Low Vol Ext (W) w/SG	SW-846 3510C	1	142560031A	09/15/2014 15:00	Kelli M Barto	1

Sample Description: MW-1-W-140911 Grab Groundwater  
Facility# 307233 Job# 385876 GRD  
2259 First St-Livermore T0600196622

LL Sample # WW 7597293  
LL Group # 1502938  
Account # 10904

Project Name: 307233

Collected: 09/11/2014 11:00 by JH Chevron  
L4310  
Submitted: 09/12/2014 09:15 6001 Bollinger Canyon Rd.  
Reported: 09/24/2014 13:16 San Ramon CA 94583

FSLQ1

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
<b>GC Petroleum Hydrocarbons w/Si</b>		<b>SW-846 8015B</b>	<b>ug/l</b>	<b>ug/l</b>	
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	57 J	50	1
<p>The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken: The sample was re-extracted outside the method required holding time and the QC is compliant. All results are reported from the first trial. The re-extracted result is non-detect.</p>					

### General Sample Comments

CA ELAP Lab Certification No. 2792

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
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	142560032A	09/16/2014 19:35	Christine E Dolman	1
11180	Low Vol Ext (W) w/SG	SW-846 3510C	1	142560032A	09/15/2014 15:00	Kelli M Barto	1

Sample Description: MW-2-W-140911 Grab Groundwater  
Facility# 307233 Job# 385876 GRD  
2259 First St-Livermore T0600196622

LL Sample # WW 7597294  
LL Group # 1502938  
Account # 10904

Project Name: 307233

Collected: 09/11/2014 08:50 by JH Chevron  
L4310  
Submitted: 09/12/2014 09:15 6001 Bollinger Canyon Rd.  
Reported: 09/24/2014 13:16 San Ramon CA 94583

FSL02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles SW-846 8260B ug/l</b>					
10943	Benzene	71-43-2	N.D.	0.5	1
10943	Ethylbenzene	100-41-4	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 ug/l</b>					
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	1
<b>GC Petroleum SW-846 8015B ug/l</b>					
<b>Hydrocarbons w/Si</b>					
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	N.D.	50	1
The reverse surrogate, capric acid, is present at <1%.					

### General Sample Comments

CA ELAP Lab Certification No. 2792

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 8260B Water	SW-846 8260B	1	P142612AA	09/18/2014 10:46	Sarah A Guill	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	P142612AA	09/18/2014 10:46	Sarah A Guill	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	14258B94A	09/16/2014 13:32	Miranda P Tillinghast	1
01146	GC VOA Water Prep	SW-846 5030B	1	14258B94A	09/16/2014 13:32	Miranda P Tillinghast	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	142560031A	09/18/2014 11:19	Christine E Dolman	1
11180	Low Vol Ext (W) w/SG	SW-846 3510C	1	142560031A	09/15/2014 15:00	Kelli M Barto	1

Sample Description: MW-2-W-140911 Grab Groundwater  
Facility# 307233 Job# 385876 GRD  
2259 First St-Livermore T0600196622

LL Sample # WW 7597295  
LL Group # 1502938  
Account # 10904

Project Name: 307233

Collected: 09/11/2014 08:50 by JH Chevron  
L4310  
Submitted: 09/12/2014 09:15 6001 Bollinger Canyon Rd.  
Reported: 09/24/2014 13:16 San Ramon CA 94583

FSLQ2

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
	<b>GC Petroleum Hydrocarbons w/Si</b>	<b>SW-846 8015B</b>	<b>ug/l</b>	<b>ug/l</b>	
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	N.D.	50	1

### General Sample Comments

CA ELAP Lab Certification No. 2792

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
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	142560032A	09/16/2014 17:44	Christine E Dolman	1
11180	Low Vol Ext (W) w/SG	SW-846 3510C	1	142560032A	09/15/2014 15:00	Kelli M Barto	1

Sample Description: MW-3-W-140911 Grab Groundwater  
Facility# 307233 Job# 385876 GRD  
2259 First St-Livermore T0600196622

LL Sample # WW 7597296  
LL Group # 1502938  
Account # 10904

Project Name: 307233

Collected: 09/11/2014 08:55 by JH Chevron  
L4310  
Submitted: 09/12/2014 09:15 6001 Bollinger Canyon Rd.  
Reported: 09/24/2014 13:16 San Ramon CA 94583

FSL03

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	26	0.5	1
10943	Ethylbenzene	100-41-4	0.8 J	0.5	1
10943	Toluene	108-88-3	1	0.5	1
10943	Xylene (Total)	1330-20-7	2	0.5	1
<b>GC Volatiles SW-846 8015B</b>					
01728	TPH-GRO N. CA water C6-C12	n.a.	1,500	50	1
<b>GC Petroleum SW-846 8015B</b>					
<b>Hydrocarbons w/Si</b>					
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	110	50	1
The reverse surrogate, capric acid, is present at <1%.					

### General Sample Comments

CA ELAP Lab Certification No. 2792

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 8260B Water	SW-846 8260B	1	P142612AA	09/18/2014 11:14	Sarah A Guill	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	P142612AA	09/18/2014 11:14	Sarah A Guill	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	14258B94A	09/16/2014 13:58	Miranda P Tillinghast	1
01146	GC VOA Water Prep	SW-846 5030B	1	14258B94A	09/16/2014 13:58	Miranda P Tillinghast	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	142560031A	09/18/2014 11:42	Christine E Dolman	1
11180	Low Vol Ext (W) w/SG	SW-846 3510C	1	142560031A	09/15/2014 15:00	Kelli M Barto	1

Sample Description: MW-3-W-140911 Grab Groundwater  
Facility# 307233 Job# 385876 GRD  
2259 First St-Livermore T0600196622

LL Sample # WW 7597297  
LL Group # 1502938  
Account # 10904

Project Name: 307233

Collected: 09/11/2014 08:55 by JH Chevron  
L4310  
Submitted: 09/12/2014 09:15 6001 Bollinger Canyon Rd.  
Reported: 09/24/2014 13:16 San Ramon CA 94583

FSLQ3

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
<b>GC Petroleum Hydrocarbons w/Si</b>					
	SW-846 8015B		ug/l	ug/l	
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	250	50	1
The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken: The sample was re-extracted outside the method required holding time and the QC is compliant. All results are reported from the first trial. Similar results were obtained in both trials.					

### General Sample Comments

CA ELAP Lab Certification No. 2792

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
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	142560032A	09/16/2014 18:07	Christine E Dolman	1
11180	Low Vol Ext (W) w/SG	SW-846 3510C	1	142560032A	09/15/2014 15:00	Kelli M Barto	1



Sample Description: MW-4-W-140911 Grab Groundwater  
Facility# 307233 Job# 385876 GRD  
2259 First St-Livermore T0600196622

LL Sample # WW 7597298  
LL Group # 1502938  
Account # 10904

Project Name: 307233

Collected: 09/11/2014 10:00 by JH Chevron  
L4310  
Submitted: 09/12/2014 09:15 6001 Bollinger Canyon Rd.  
Reported: 09/24/2014 13:16 San Ramon CA 94583

FSL04

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	4	0.5	1
10943	Ethylbenzene	100-41-4	5	0.5	1
10943	Toluene	108-88-3	2	0.5	1
10943	Xylene (Total)	1330-20-7	6	0.5	1
<b>GC Volatiles SW-846 8015B</b>					
01728	TPH-GRO N. CA water C6-C12	n.a.	2,700	50	1
<b>GC Petroleum SW-846 8015B</b>					
<b>Hydrocarbons w/Si</b>					
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	400	50	1
The reverse surrogate, capric acid, is present at <1%.					

### General Sample Comments

CA ELAP Lab Certification No. 2792

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 8260B Water	SW-846 8260B	1	P142612AA	09/18/2014 11:42	Sarah A Guill	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	P142612AA	09/18/2014 11:42	Sarah A Guill	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	14258B94A	09/16/2014 14:24	Miranda P Tillinghast	1
01146	GC VOA Water Prep	SW-846 5030B	1	14258B94A	09/16/2014 14:24	Miranda P Tillinghast	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	142560031A	09/18/2014 12:04	Christine E Dolman	1
11180	Low Vol Ext (W) w/SG	SW-846 3510C	1	142560031A	09/15/2014 15:00	Kelli M Barto	1

Sample Description: MW-4-W-140911 Grab Groundwater  
Facility# 307233 Job# 385876 GRD  
2259 First St-Livermore T0600196622

LL Sample # WW 7597299  
LL Group # 1502938  
Account # 10904

Project Name: 307233

Collected: 09/11/2014 10:00 by JH Chevron  
L4310  
Submitted: 09/12/2014 09:15 6001 Bollinger Canyon Rd.  
Reported: 09/24/2014 13:16 San Ramon CA 94583

FSLQ4

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
<b>GC Petroleum Hydrocarbons w/Si</b>					
	SW-846 8015B		ug/l	ug/l	
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	760	50	1
<p>The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken: The sample was re-extracted outside the method required holding time and the QC is compliant. All results are reported from the first trial. Similar results were obtained in both trials.</p>					

### General Sample Comments

CA ELAP Lab Certification No. 2792

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
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	142560032A	09/16/2014 18:29	Christine E Dolman	1
11180	Low Vol Ext (W) w/SG	SW-846 3510C	1	142560032A	09/15/2014 15:00	Kelli M Barto	1

Sample Description: MW-5-W-140911 Grab Groundwater  
Facility# 307233 Job# 385876 GRD  
2259 First St-Livermore T0600196622

LL Sample # WW 7597300  
LL Group # 1502938  
Account # 10904

Project Name: 307233

Collected: 09/11/2014 09:40 by JH Chevron  
L4310  
Submitted: 09/12/2014 09:15 6001 Bollinger Canyon Rd.  
Reported: 09/24/2014 13:16 San Ramon CA 94583

FSL05

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	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 w/Si</b>					
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	N.D.	50	1
The reverse surrogate, capric acid, is present at <1%.					

### General Sample Comments

CA ELAP Lab Certification No. 2792

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 8260B Water	SW-846 8260B	1	P142612AA	09/18/2014 12:39	Sarah A Guill	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	P142612AA	09/18/2014 12:39	Sarah A Guill	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	14258B94A	09/16/2014 14:49	Miranda P Tillinghast	1
01146	GC VOA Water Prep	SW-846 5030B	1	14258B94A	09/16/2014 14:49	Miranda P Tillinghast	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	142560031A	09/18/2014 12:26	Christine E Dolman	1
11180	Low Vol Ext (W) w/SG	SW-846 3510C	1	142560031A	09/15/2014 15:00	Kelli M Barto	1

Sample Description: MW-5-W-140911 Grab Groundwater  
Facility# 307233 Job# 385876 GRD  
2259 First St-Livermore T0600196622

LL Sample # WW 7597301  
LL Group # 1502938  
Account # 10904

Project Name: 307233

Collected: 09/11/2014 09:40 by JH Chevron  
L4310  
Submitted: 09/12/2014 09:15 6001 Bollinger Canyon Rd.  
Reported: 09/24/2014 13:16 San Ramon CA 94583

FSLQ5

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
	<b>GC Petroleum Hydrocarbons w/Si</b>	<b>SW-846 8015B</b>	<b>ug/l</b>	<b>ug/l</b>	
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	N.D.	50	1

**General Sample Comments**

CA ELAP Lab Certification No. 2792

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
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	142560032A	09/16/2014 18:51	Christine E Dolman	1
11180	Low Vol Ext (W) w/SG	SW-846 3510C	1	142560032A	09/15/2014 15:00	Kelli M Barto	1

Sample Description: MW-6-W-140911 Grab Groundwater  
Facility# 307233 Job# 385876 GRD  
2259 First St-Livermore T0600196622

LL Sample # WW 7597302  
LL Group # 1502938  
Account # 10904

Project Name: 307233

Collected: 09/11/2014 09:20 by JH Chevron  
L4310  
Submitted: 09/12/2014 09:15 6001 Bollinger Canyon Rd.  
Reported: 09/24/2014 13:16 San Ramon CA 94583

FSL06

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
<b>GC/MS Volatiles SW-846 8260B ug/l ug/l</b>					
10943	Benzene	71-43-2	17	0.5	1
10943	Ethylbenzene	100-41-4	0.9 J	0.5	1
10943	Toluene	108-88-3	0.9 J	0.5	1
10943	Xylene (Total)	1330-20-7	0.9 J	0.5	1
<b>GC Volatiles SW-846 8015B ug/l ug/l</b>					
01728	TPH-GRO N. CA water C6-C12	n.a.	1,700	50	1
<b>GC Petroleum SW-846 8015B ug/l ug/l</b>					
<b>Hydrocarbons w/Si</b>					
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	990	50	1
The reverse surrogate, capric acid, is present at <1%.					

### General Sample Comments

CA ELAP Lab Certification No. 2792

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 8260B Water	SW-846 8260B	1	P142612AA	09/18/2014 13:07	Sarah A Guill	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	P142612AA	09/18/2014 13:07	Sarah A Guill	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	14258B94A	09/16/2014 15:15	Miranda P Tillinghast	1
01146	GC VOA Water Prep	SW-846 5030B	1	14258B94A	09/16/2014 15:15	Miranda P Tillinghast	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	142560031A	09/18/2014 12:48	Christine E Dolman	1
11180	Low Vol Ext (W) w/SG	SW-846 3510C	1	142560031A	09/15/2014 15:00	Kelli M Barto	1

Sample Description: MW-6-W-140911 Grab Groundwater  
Facility# 307233 Job# 385876 GRD  
2259 First St-Livermore T0600196622

LL Sample # WW 7597303  
LL Group # 1502938  
Account # 10904

Project Name: 307233

Collected: 09/11/2014 09:20 by JH Chevron  
L4310  
Submitted: 09/12/2014 09:15 6001 Bollinger Canyon Rd.  
Reported: 09/24/2014 13:16 San Ramon CA 94583

FSLQ6

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
	<b>GC Petroleum Hydrocarbons w/Si</b>	<b>SW-846 8015B</b>	<b>ug/l</b>	<b>ug/l</b>	
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	1,600	50	1
<p>The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken: The sample was re-extracted outside the method required holding time and the QC is compliant. All results are reported from the first trial. Similar sample patterns were observed in both trials.</p>					

### General Sample Comments

CA ELAP Lab Certification No. 2792

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
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	142560032A	09/16/2014 19:57	Christine E Dolman	1
11180	Low Vol Ext (W) w/SG	SW-846 3510C	1	142560032A	09/15/2014 15:00	Kelli M Barto	1

Sample Description: MW-12-W-140911 Grab Groundwater  
Facility# 307233 Job# 385876 GRD  
2259 First St-Livermore T0600196622

LL Sample # WW 7597304  
LL Group # 1502938  
Account # 10904

Project Name: 307233

Collected: 09/11/2014 11:00 by JH Chevron  
L4310  
Submitted: 09/12/2014 09:15 6001 Bollinger Canyon Rd.  
Reported: 09/24/2014 13:16 San Ramon CA 94583

FSL12

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	14	0.5	1
10943	Ethylbenzene	100-41-4	6	0.5	1
10943	Toluene	108-88-3	1	0.5	1
10943	Xylene (Total)	1330-20-7	4	0.5	1
<b>GC Volatiles</b> SW-846 8015B ug/l ug/l					
01728	TPH-GRO N. CA water C6-C12	n.a.	2,400	50	1
<b>GC Petroleum Hydrocarbons w/Si</b> SW-846 8015B ug/l ug/l					
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	240	50	1
The reverse surrogate, capric acid, is present at <1%.					

### General Sample Comments

CA ELAP Lab Certification No. 2792

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 8260B Water	SW-846 8260B	1	P142612AA	09/18/2014 13:35	Sarah A Guill	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	P142612AA	09/18/2014 13:35	Sarah A Guill	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	14258B94A	09/16/2014 15:40	Miranda P Tillinghast	1
01146	GC VOA Water Prep	SW-846 5030B	1	14258B94A	09/16/2014 15:40	Miranda P Tillinghast	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	142560031A	09/18/2014 13:10	Christine E Dolman	1
11180	Low Vol Ext (W) w/SG	SW-846 3510C	1	142560031A	09/15/2014 15:00	Kelli M Barto	1

Sample Description: MW-12-W-140911 Grab Groundwater  
Facility# 307233 Job# 385876 GRD  
2259 First St-Livermore T0600196622

LL Sample # WW 7597305  
LL Group # 1502938  
Account # 10904

Project Name: 307233

Collected: 09/11/2014 11:00 by JH Chevron  
L4310  
Submitted: 09/12/2014 09:15 6001 Bollinger Canyon Rd.  
Reported: 09/24/2014 13:16 San Ramon CA 94583

FSQ12

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
<b>GC Petroleum Hydrocarbons w/Si</b>					
	SW-846 8015B		ug/l	ug/l	
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	640	50	1
<p>The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken: The sample was re-extracted outside the method required holding time and the QC is compliant. All results are reported from the first trial. Similar results were obtained in both trials.</p>					

### General Sample Comments

CA ELAP Lab Certification No. 2792

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
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	142560032A	09/16/2014 19:13	Christine E Dolman	1
11180	Low Vol Ext (W) w/SG	SW-846 3510C	1	142560032A	09/15/2014 15:00	Kelli M Barto	1





## Quality Control Summary

Client Name: Chevron  
Reported: 09/24/14 at 01:16 PM

Group Number: 1502938

### 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: F142581AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7597291	104	98	97	100
7597292	104	97	97	99
Blank	105	99	96	100
LCS	103	98	96	100
MS	105	98	97	101
MSD	104	98	98	102
Limits:	80-116	77-113	80-113	78-113

Analysis Name: UST VOCs by 8260B - Water  
Batch number: P142612AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7597294	93	87	105	97
7597296	94	90	103	102
7597298	94	92	103	101
7597300	93	89	102	97
7597302	93	89	102	103
7597304	93	89	104	102
Blank	93	87	103	97
LCS	93	94	104	98
LCSD	92	93	105	97
Limits:	80-116	77-113	80-113	78-113

Analysis Name: TPH-GRO N. CA water C6-C12  
Batch number: 14258B94A

	Trifluorotoluene-F
7597291	85
7597292	85
7597294	86
7597296	115
7597298	175*
7597300	87
7597302	115
7597304	139*
Blank	87
LCS	92
LCSD	94
Limits:	63-135

Analysis Name: TPH-DRO CA C10-C28 w/ Si Gel  
Batch number: 142560031A

	Orthoterphenyl
7597292	73
7597294	71
7597296	67
7597298	72
7597300	69
7597302	61
7597304	75
Blank	71

\*- Outside of specification

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

## Quality Control Summary

Client Name: Chevron  
Reported: 09/24/14 at 01:16 PM

Group Number: 1502938

### Surrogate Quality Control

LCS 85  
LCSD 82  
Limits: 42-126

---

Analysis Name: TPH-DRO CA C10-C28 w/ Si Gel  
Batch number: 142560032A  
Orthoterphenyl

---

7597293 92  
7597295 81  
7597297 94  
7597299 90  
7597301 78  
7597303 81  
7597305 89  
Blank 74  
LCS 106  
LCSD 103  
Limits: 42-126

---

\*- 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.

# Chevron California Region Analysis Request/Chain of Custody



Lancaster Laboratories <sup>506</sup> <sub>69114-01</sub>

Acct. # 10904

For Eurofins Lancaster Laboratories use only  
 Group # 1502938 Sample # 7597291-305  
 Instructions on reverse side correspond with circled numbers.

<b>1 Client Information</b>				<b>4 Matrix</b>				<b>5 Analyses Requested</b>									
Facility # <b>SS#307233-OML G-R#385876</b> WBS Global ID# <b>T0600196622</b> Site Address <b>2259 FIRST STREET, LIVERMORE, CA</b> Chevron PM <b>CM</b> CRASB Lead Consultant <b>Silva</b> Consultant/Office <b>Getter-Ryan, Inc., 6805 Sierra Court, Suite G, Dublin, CA 94568</b> Consultant Project Mgr. <b>Deanna L. Harding, deanna@grinc.com</b> Consultant Phone # <b>(925) 551-7444 x180</b> Sampler <b>Sim Heeren</b>				Sediment <input type="checkbox"/> Potable <input type="checkbox"/> Ground <input checked="" type="checkbox"/> Surface <input type="checkbox"/> Water <input type="checkbox"/> NPDES <input type="checkbox"/> Air <input type="checkbox"/> Oil <input type="checkbox"/>				Total Number of Containers BTEX + ME <input checked="" type="checkbox"/> 8021 <input type="checkbox"/> 8260 TPH-GRO <input type="checkbox"/> 8015 <input type="checkbox"/> 8260 TPH-DRO 8015 with Silica Gel Cleanup <input checked="" type="checkbox"/> TPH-DRO 8015 with Silica Gel Cleanup <input checked="" type="checkbox"/> 8260 Full Scan Oxygenates Total Lead Method Dissolved Lead Method									
<b>2 Sample Identification</b>		<b>3</b>		<b>6</b>													
		Soil Depth		Collected		Grab		Composite		<b>6 Remarks</b>							
				Date		Time				Please report DRO w/sgc using 10 grams of silica and also report 1 gram shake results							
QA				9/11/14													
MW-1						1100											
MW-2						0850											
MW-3						0855											
MW-4						1000											
MW-5						0940											
MW-6						0920											
MW-12						1100											

<b>7 Turnaround Time Requested (TAT) (please circle)</b>				<b>9</b>	
<input checked="" type="radio"/> Standard 5 day      4 day 72 hour      48 hour      24 hour		Relinquished by Date <b>9/11/14</b> Time		Received by Date <b>9.11.14</b> Time	
<input type="radio"/> EDF/EDD		Relinquished by Date <b>9.11.14</b> Time <b>1400</b>		Received by <b>a. Taylor</b> Date <b>11 SEP 14</b> Time <b>1400</b>	
<b>8 Data Package</b> (circle if required) Type I - Full Type VI (Raw Data)		EDD (circle if required) EDFFLAT (default) Other:		Relinquished by Commercial Carrier: <b>UPS</b> Date <b>11 SEP 14</b> Time <b>1630</b>	
		Received by <b>FED EX</b> Date		Temperature Upon Receipt <b>0.8-1.6 °C</b> Custody Seals Intact? <input checked="" type="radio"/> Yes <input type="radio"/> No	

# 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

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

**ppm** 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 per liter of gas.

**ppb** parts per billion

**Dry weight basis** 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  $\geq$  the Method Detection Limit (MDL) and  $<$  the Limit of Quantitation (LOQ).

*U.S. EPA CLP Data Qualifiers:*

**Organic Qualifiers**

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

**Inorganic Qualifiers**

- B** Value is  $<$ CRDL, but  $\geq$ IDL
- E** Estimated due to interference
- M** Duplicate injection precision not met
- N** Spike sample not within control limits
- S** Method of standard additions (MSA) used for calculation
- U** Compound was not detected
- W** Post digestion spike out of control limits
- \*** Duplicate analysis not within control limits
- +** 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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