



**Carryl MacLeod**  
Project Manager, Marketing Business Unit

April 25, 2017

**RECEIVED**

By Alameda County Environmental Health 1:54 pm, May 01, 2017

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

Re: Former Texaco Station (Chevron 307233)  
2259 First Street  
Livermore, California  
ACEHS Case RO0002908

I accept the First Semi-Annual 2017 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 First Semi-Annual 2017 Groundwater Monitoring and Sampling Report was prepared by GHD Services, Inc., upon whose assistance and advice I have relied.

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

I declare under penalty of perjury that the foregoing is true and correct to the best of my knowledge.

Sincerely,

Carryl MacLeod  
Project Manager

Attachment: First Semi-Annual 2017 Groundwater Monitoring and Sampling Report



May 1, 2017

Reference No. 312264

Ms. Kitt Soo  
Alameda County Environmental Health Services (ACEH)  
1131 Harbor Bay Parkway, Suite 250  
Alameda, California 94502-6577s

**Re: First Semi-Annual 2017 - Groundwater Monitoring  
and Sampling Report  
Former Texaco Station (Chevron 307233)  
2259 First Street  
Livermore, California  
ACEHS Case RO0002908**

Dear Ms. Soo:

GHD is submitting this *First Semi-Annual 2017 Groundwater Monitoring and Sampling Report* for the site referenced above (Figure 1) on behalf of Chevron Environmental Management Company (CEMC). 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.

## 1. Results of First Semi-Annual 2017 Event

On March 9, 2017, G-R gauged and sampled the site wells per the established schedule.

Results of the current monitoring event indicate the following:

Shallow Groundwater Flow Direction	West-Northwest
Shallow Hydraulic Gradient	0.14
Deep Groundwater Flow Direction	West-Northwest
Deep Hydraulic Gradient	0.01
Depth to Water - Shallow	12.98 to 22.10 feet below grade
Depth to Water - Deep	12.73 to 14.18 feet below grade



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

Table A: Groundwater Analytical Data – March 9, 2017

Well ID	TPHd*	TPHg	Benzene	Toluene	Ethylbenzene	Total Xylenes
ESLs	100	100	1	40	13	20
Deep Zone						
MW-1	<110 / <110	<100	<1	<1	<1	<1
MW-2	<110 / <110	<100	<1	<1	<1	<1
MW-3	<110 / <110	<100	<1	<1	<1	<1
MW-4	<b>820 / 230</b>	<b>3,000</b>	<b>6</b>	<5	8	5
MW-5	<b>1,200 / &lt;100</b>	<100	<1	<1	<1	<1
MW-6	<b>140 / &lt;110</b>	<b>740</b>	<b>41</b>	<1	<1	<1
Shallow Zone						
MW-7	<b>11,000 / 6,600</b>	<b>8,500</b>	<b>610</b>	11	<b>190</b>	<b>120</b>
MW-8	<b>1,900 / 1,000</b>	<b>3,900</b>	<b>18</b>	2	0.5 J	0.7 J
MW-9	<100 / <100	<100	<1	<1	<1	<1
MW-10	<b>330 / 110 J</b>	<b>2,700</b>	<5	<5	<5	<5
MW-11	<110 / <110	<100	<1	<1	<1	<1
MW-12	<b>430 / 78 J</b>	<b>2,100</b>	1	<1	0.6 J	<1
μg/L	Units in micrograms per liter					
ESL	Environmental Screening Levels, San Francisco Bay Regional Water Quality Control Board, Tier 1, February 2016					
NA	Not Analyzed					
J	Estimated Value					
<b>BOLD</b>	Concentrations exceed ESLs					
*	Analyzed with silica gel cleanup / Analyzed with 10-gram column silica gel cleanup with capric acid reverse surrogate					



## 2. Conclusions and Recommendations

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

- Dissolved TPHd, TPHg, and to a lesser extent benzene, are the primary constituents of concern at the site.
- Analytical results in the shallow zone are consistent with historical results which indicate a declining or stable trend.
- No measurable LNAPL was reported in any of the wells sampled during the current event.
- Hydrocarbon concentrations in deep zone wells are consistent with historical results and continue to decline or are stable. Dissolved hydrocarbons in the deep zone are defined downgradient by well MW-2.
- Groundwater elevations have risen in the shallow and deep zones from over 10 feet to over 20 feet since the previous monitoring event.

## 3. Anticipated Future Activities

G-R will conduct semi-annual monitoring and sampling of site wells during the second half of 2017. GHD will submit a groundwater monitoring and sampling report.



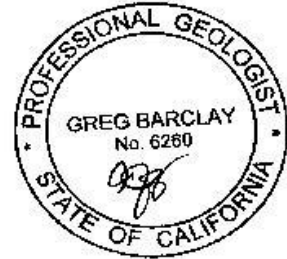
Please contact Brian Silva at (916) 889-8908 if you have any questions or require additional information.

Sincerely,

GHD

Brian Silva

Greg Barclay, PG 6260



BS/cw/43

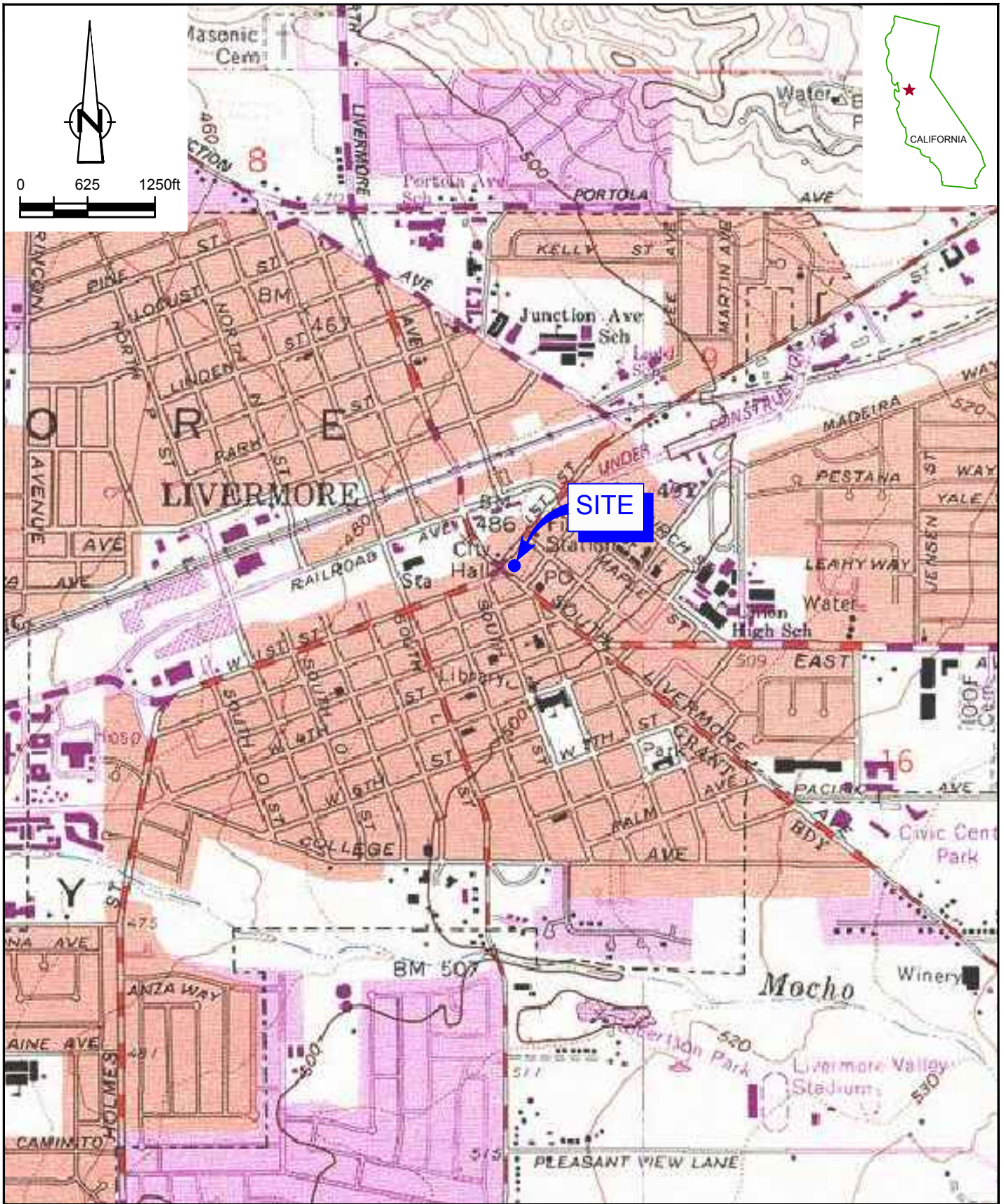
Encl.

- |              |                                                                              |
|--------------|------------------------------------------------------------------------------|
| Figure 1     | Vicinity Map                                                                 |
| Figure 2     | Shallow-Zone Groundwater Elevation Contour and Hydrocarbon Concentration Map |
| Figure 3     | 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





SOURCE: TOPOI MAPS



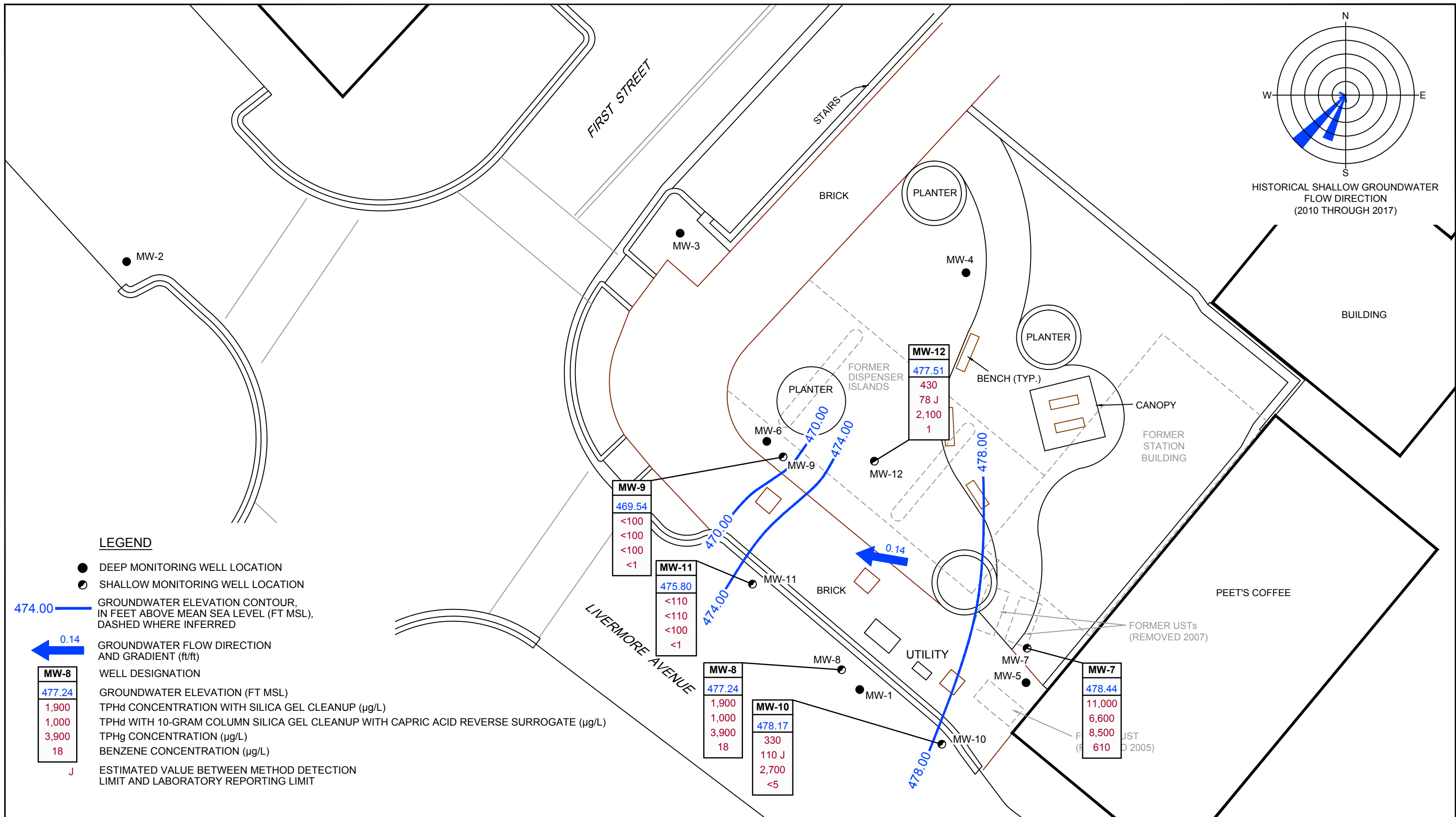
FORMER TEXACO STATION (CHEVRON STATION 307233)  
 2259 FIRST STREET  
 LIVERMORE, CALIFORNIA

312264-95  
 Mar 31, 2017

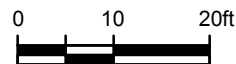
VICINITY MAP

FIGURE 1





BASE MAP MODIFIED BY DRAWING FROM MORROW SURVEYING.

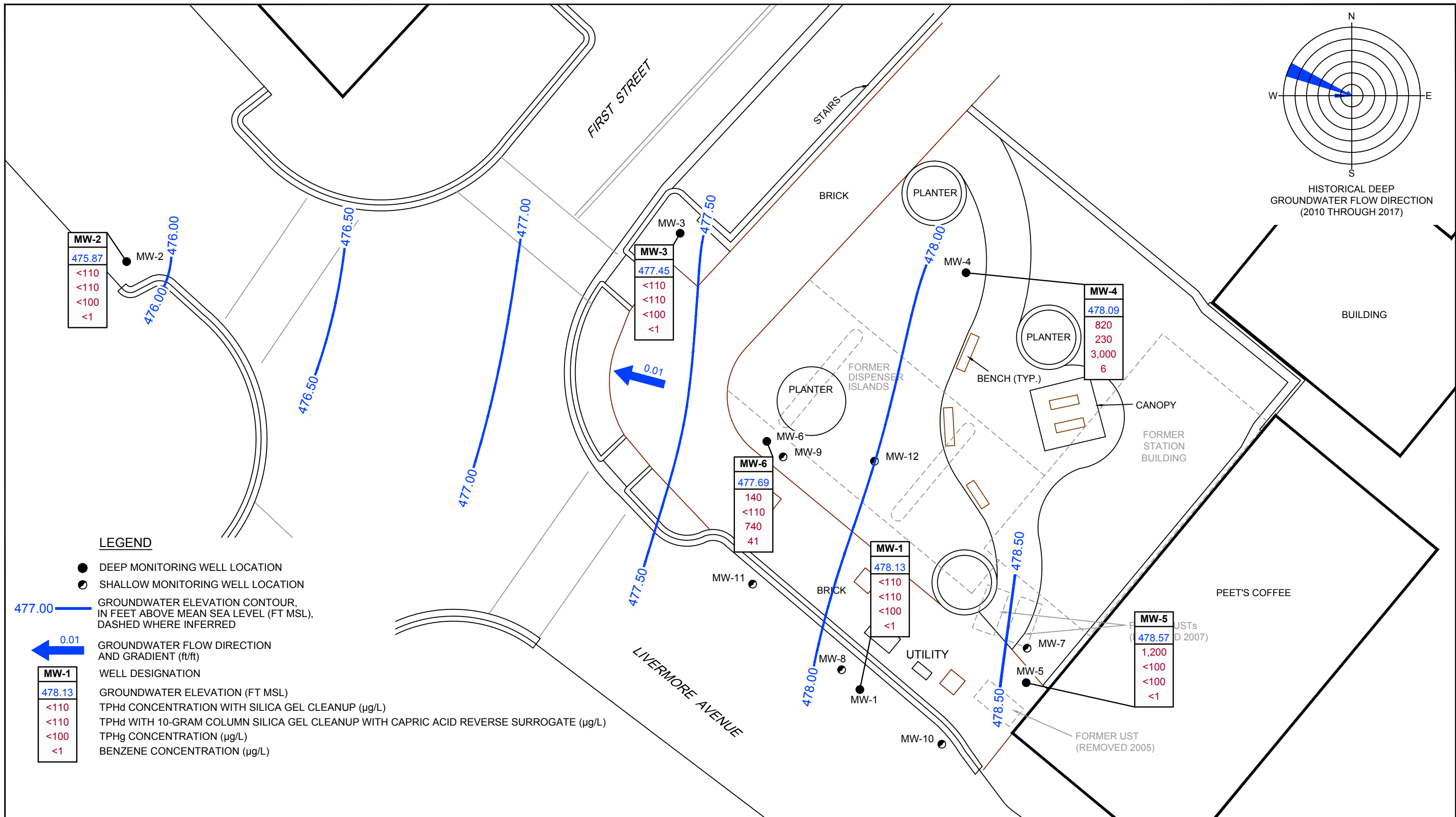


FORMER TEXACO STATION (CHEVRON STATION 307233)  
 2259 FIRST STREET  
 LIVERMORE, CALIFORNIA  
 SHALLOW-ZONE GROUNDWATER ELEVATION CONTOUR AND  
 HYDROCARBON CONCENTRATION MAP - MARCH 9, 2017

312264-95  
 Apr 17, 2017

FIGURE 2





BASE MAP MODIFIED BY DRAWING FROM MORROW SURVEYING.



FORMER TEXACO STATION (CHEVRON STATION 307233)  
 2259 FIRST STREET  
 LIVERMORE, CALIFORNIA  
 DEEP-ZONE GROUNDWATER ELEVATION CONTOUR AND  
 HYDROCARBON CONCENTRATION MAP - MARCH 9, 2017

312264-95  
 Apr 17, 2017

FIGURE 3

# Table

**Table 1**  
**Groundwater Monitoring and Sampling Data**  
**Former Texaco Station (Chevron 307233)**  
**2259 First Street**  
**Livermore, California**

Location	Date	TOC	DTW	GWE	LNAPL	LNAPL REMOVED	HYDROCARBONS			PRIMARY VOCS				GENERAL CHEMISTRY								
							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
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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-1	09/11/2014	490.86	51.68	439.18	0.00	0.00	-	57 J / <50	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
MW-1	03/24/2015 <sup>4</sup>	490.86	41.07	449.79	0.00	0.00	-	270 / 73 J	370	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
MW-1	09/24/2015 <sup>4</sup>	490.86	52.82	438.04	0.00	0.00	-	<50 / <50	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
MW-1	03/10/2016 <sup>4</sup>	490.86	41.22	449.64	0.00	0.00	<50	<50 / <50	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
MW-1	11/10/2016 <sup>4</sup>	490.86	35.83	455.03	0.00	0.00	-	<110 / <110	<100	<1	<1	<1	<1	-	-	-	-	-	-	-	-	-
<b>MW-1</b>	<b>03/09/2017<sup>4</sup></b>	<b>490.86</b>	<b>12.73</b>	<b>478.13</b>	<b>0.00</b>	<b>0.00</b>	-	<b>&lt;110 / &lt;110</b>	<b>&lt;100</b>	<b>&lt;1</b>	<b>&lt;1</b>	<b>&lt;1</b>	<b>&lt;1</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	-	-	-	-	-	-	-	-	-

**Table 1**  
**Groundwater Monitoring and Sampling Data**  
**Former Texaco Station (Chevron 307233)**  
**2259 First Street**  
**Livermore, California**

Location	Date	TOC	DTW	GWE	LNAPL	LNAPL REMOVED	HYDROCARBONS			PRIMARY VOCS				GENERAL CHEMISTRY								
							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
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	-	-	-	-	-	-	-	-	-
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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-2	09/11/2014	489.43	52.06	437.37	0.00	0.00	-	<50 / <50	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
MW-2	03/24/2015 <sup>4</sup>	489.43	41.58	447.85	0.00	0.00	-	<50 / <50	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
MW-2	09/24/2015 <sup>4</sup>	489.43	53.17	436.26	0.00	0.00	-	<50 / <50	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
MW-2	03/10/2016 <sup>4</sup>	489.43	41.75	447.68	0.00	0.00	170	96 J / 100	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
MW-2	11/10/2016 <sup>4</sup>	489.43	36.33	453.10	0.00	0.00	-	86 J / <100	<100	<1	<1	<1	<1	-	-	-	-	-	-	-	-	-
<b>MW-2</b>	<b>03/09/2017<sup>4</sup></b>	<b>489.43</b>	<b>13.56</b>	<b>475.87</b>	<b>0.00</b>	<b>0.00</b>	-	<b>&lt;110 / &lt;110</b>	<b>&lt;100</b>	<b>&lt;1</b>	<b>&lt;1</b>	<b>&lt;1</b>	<b>&lt;1</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	-	-	-	-	-

**Table 1**  
**Groundwater Monitoring and Sampling Data**  
**Former Texaco Station (Chevron 307233)**  
**2259 First Street**  
**Livermore, California**

Location	Date	TOC	DTW	GWE	LNAPL	LNAPL REMOVED	HYDROCARBONS			PRIMARY VOCS				GENERAL CHEMISTRY									
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	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	
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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-3	09/11/2014	490.38	51.88	438.50	0.00	0.00	-	250 / 110	1,500	26	1	0.8 J	2	-	-	-	-	-	-	-	-	-	-
MW-3	03/24/2015 <sup>4</sup>	490.38	41.33	449.05	0.00	0.00	-	2,700 / 1,600	2,100	1	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-
MW-3	09/24/2015 <sup>4</sup>	490.38	53.11	437.27	0.00	0.00	-	74 J / <50	77 J	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-
MW-3	03/10/2016 <sup>4</sup>	490.38	41.48	448.90	0.00	0.00	700	260 / 170	770	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-
MW-3	11/10/2016 <sup>4</sup>	490.38	36.11	454.27	0.00	0.00	-	160 / <110	<100	<1	<1	<1	<1	-	-	-	-	-	-	-	-	-	-
<b>MW-3</b>	<b>03/09/2017<sup>4</sup></b>	<b>490.38</b>	<b>12.93</b>	<b>477.45</b>	<b>0.00</b>	<b>0.00</b>	-	<b>&lt;110 / &lt;110</b>	<b>&lt;100</b>	<b>&lt;1</b>	<b>&lt;1</b>	<b>&lt;1</b>	<b>&lt;1</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	-	-	-	-	-	-	-	-	-	-
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	-	-	-	-	-	-	-	-	-	-



**Table 1**  
**Groundwater Monitoring and Sampling Data**  
**Former Texaco Station (Chevron 307233)**  
**2259 First Street**  
**Livermore, California**

Location	Date	TOC	DTW	GWE	LNAPL	LNAPL REMOVED	HYDROCARBONS			PRIMARY VOCS				GENERAL CHEMISTRY								
							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
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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-4	09/11/2014	492.27	53.21	439.06	0.00	0.00	-	760 / 400	2,700	4	2	5	6	-	-	-	-	-	-	-	-	-
MW-4	03/24/2015 <sup>4</sup>	492.27	42.63	449.64	0.00	0.00	-	950 / 510	3,000	4	2	9	6	-	-	-	-	-	-	-	-	-
MW-4	09/24/2015 <sup>4</sup>	492.27	54.30	437.97	0.00	0.00	-	900 / 490	3,500	9	3	8	8	-	-	-	-	-	-	-	-	-
MW-4	03/10/2016 <sup>4</sup>	492.27	42.80	449.47	0.00	0.00	860	550 / 330	3,900	5	1	5	4	-	-	-	-	-	-	-	-	-
MW-4	11/10/2016	492.27	37.43	454.84	0.00	0.00	-	330	2,400	3	0.7 J	0.9 J	2	-	-	-	-	-	-	-	-	-
<b>MW-4</b>	<b>03/09/2017<sup>4</sup></b>	<b>492.27</b>	<b>14.18</b>	<b>478.09</b>	<b>0.00</b>	<b>0.00</b>	-	<b>820 / 230</b>	<b>3,000</b>	<b>6</b>	<b>&lt;5</b>	<b>8</b>	<b>5</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	-	-	-	-	-	-	-	-	-

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**Groundwater Monitoring and Sampling Data**  
**Former Texaco Station (Chevron 307233)**  
**2259 First Street**  
**Livermore, California**

Location	Date	TOC	DTW	GWE	LNAPL	LNAPL REMOVED	HYDROCARBONS			PRIMARY VOCS				GENERAL CHEMISTRY								
							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
MW-5	12/10/2012 <sup>7</sup>	491.99	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-5	09/11/2014	491.99	52.40	439.59	0.00	0.00	-	<50 / <50	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
MW-5	03/24/2015 <sup>4</sup>	491.99	41.77	450.22	0.00	0.00	-	72 J / <50	170	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
MW-5	09/24/2015 <sup>4</sup>	491.99	53.48	438.51	0.00	0.00	-	<50 / <50	72 J	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
MW-5	03/10/2016 <sup>4</sup>	491.99	41.97	450.02	0.00	0.00	<50	<50 / <50	58 J	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
MW-5	11/10/2016 <sup>4</sup>	491.99	36.58	455.41	0.00	0.00	-	<100 / <100	<100	<1	<1	<1	<1	-	-	-	-	-	-	-	-	-
<b>MW-5</b>	<b>03/09/2017<sup>4</sup></b>	<b>491.99</b>	<b>13.42</b>	<b>478.57</b>	<b>0.00</b>	<b>0.00</b>	-	<b>1,200 / &lt;100</b>	<b>&lt;100</b>	<b>&lt;1</b>	<b>&lt;1</b>	<b>&lt;1</b>	<b>&lt;1</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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Location	Date	TOC	DTW	GWE	LNAPL	LNAPL REMOVED	HYDROCARBONS			PRIMARY VOCS				GENERAL CHEMISTRY										
							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	µg/L	
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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-6	09/11/2014	491.52	52.72	438.80	0.00	0.00	-	1600 / 990	1,700	17	0.9 J	0.9 J	0.9 J	-	-	-	-	-	-	-	-	-	-	-
MW-6	03/24/2015 <sup>4</sup>	491.52	42.17	449.35	0.00	0.00	-	380 / 230	1,600	4	<0.5	1	0.7 J	-	-	-	-	-	-	-	-	-	-	-
MW-6	09/24/2015 <sup>4</sup>	491.52	53.84	437.68	0.00	0.00	-	440 / 240	1,800	18	2	2	6	-	-	-	-	-	-	-	-	-	-	-
MW-6	03/10/2016 <sup>4</sup>	491.52	42.32	449.20	0.00	0.00	330	480 / 300	1,300	3	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-
MW-6	11/10/2016 <sup>4</sup>	491.52	36.95	454.57	0.00	0.00	-	240 / <100	1,200	3	<1	<1	<1	-	-	-	-	-	-	-	-	-	-	-
<b>MW-6</b>	<b>03/09/2017<sup>4</sup></b>	<b>491.52</b>	<b>13.83</b>	<b>477.69</b>	<b>0.00</b>	<b>0.00</b>	-	<b>140 / &lt;110</b>	<b>740</b>	<b>41</b>	<b>&lt;1</b>	<b>&lt;1</b>	<b>&lt;1</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	-	-	-	-	-	-	-	-	-	-	-
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	-	-	-	-	-	-	-	-	-	-	-

**Table 1**  
**Groundwater Monitoring and Sampling Data**  
**Former Texaco Station (Chevron 307233)**  
**2259 First Street**  
**Livermore, California**

Location	Date	TOC	DTW	GWE	LNAPL	LNAPL REMOVED	HYDROCARBONS			PRIMARY VOCS				GENERAL CHEMISTRY								
							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
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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-7	09/11/2014 <sup>5,9</sup>	492.29	32.40	459.89	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-7	03/24/2015 <sup>3,9</sup>	492.29	31.92	460.37	0.02	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-7	09/24/2015 <sup>5,9</sup>	492.29	32.40	459.89	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-7	03/10/2016 <sup>9,4</sup>	492.29	30.28	462.01	0.00	0.00	7,600	11,000 / 8,300	14,000	1,500	26	190	53	-	-	-	-	-	-	-	-	-
MW-7	11/10/2016 <sup>5,9</sup>	492.29	32.09	460.20	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>MW-7</b>	<b>03/09/2017<sup>4</sup></b>	<b>492.29</b>	<b>13.85</b>	<b>478.44</b>	<b>0.00</b>	<b>0.00</b>	-	<b>11,000 / 6,600</b>	<b>8,500</b>	<b>610</b>	<b>11</b>	<b>190</b>	<b>120</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	
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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-8	09/11/2014 <sup>5</sup>	490.89	38.51	452.38	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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**Groundwater Monitoring and Sampling Data**  
**Former Texaco Station (Chevron 307233)**  
**2259 First Street**  
**Livermore, California**

Location	Date	TOC	DTW	GWE	LNAPL	LNAPL REMOVED	HYDROCARBONS			PRIMARY VOCS				GENERAL CHEMISTRY								
							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
MW-8	03/24/2015 <sup>5</sup>	490.89	38.35	452.54	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-8	09/24/2015 <sup>5</sup>	490.89	38.55	452.34	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-8	03/10/2016 <sup>5</sup>	490.89	38.37	452.52	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-8	11/10/2016 <sup>4</sup>	490.89	36.18	454.71	0.00	0.00	-	35,000 / 22,000	11,000	0.6 J	0.6 J	0.6 J	0.8 J	-	-	-	-	-	-	-	-	-
<b>MW-8</b>	<b>03/09/2017<sup>4</sup></b>	<b>490.89</b>	<b>13.65</b>	<b>477.24</b>	<b>0.00</b>	<b>0.00</b>	-	<b>1,900 / 1,000</b>	<b>3,900</b>	<b>18</b>	<b>2</b>	<b>0.5 J</b>	<b>0.7 J</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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-9	09/11/2014 <sup>11</sup>	491.64	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-9	03/24/2015 <sup>4</sup>	491.64	37.14	454.50	0.00	0.00	-	<50 / <50	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
MW-9	09/24/2015 <sup>11</sup>	491.64	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-9	3/10/2016 <sup>4</sup>	491.64	37.49	454.15	0.00	0.00	<50	<50 / <50	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-



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Location	Date	TOC	DTW	GWE	LNAPL	LNAPL REMOVED	HYDROCARBONS			PRIMARY VOCS				GENERAL CHEMISTRY								
							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
MW-9	11/10/2016 <sup>4</sup>	491.64	35.43	456.21	0.00	0.00	-	<100 / <100	<100	<1	<1	<1	<1	-	-	-	-	-	-	-	-	-
<b>MW-9</b>	<b>03/09/2017<sup>4</sup></b>	<b>491.64</b>	<b>22.10</b>	<b>469.54</b>	<b>0.00</b>	<b>0.00</b>	-	<b>&lt;100 / &lt;100</b>	<b>&lt;100</b>	<b>&lt;1</b>	<b>&lt;1</b>	<b>&lt;1</b>	<b>&lt;1</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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-10	09/11/2014 <sup>5</sup>	491.15	32.04	459.11	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-10	03/24/2015 <sup>5</sup>	491.15	31.46	459.69	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-10	09/24/2015 <sup>11</sup>	491.15	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-10	3/10/2016 <sup>4</sup>	491.15	26.47	464.68	0.00	0.00	240	110 / 53 J	1,200	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
MW-10	11/10/2016 <sup>4</sup>	491.15	28.93	462.22	0.00	0.00	-	28,000 / 21,000	3,900	1	1	3	5	-	-	-	-	-	-	-	-	-
<b>MW-10</b>	<b>03/09/2017<sup>4</sup></b>	<b>491.15</b>	<b>12.98</b>	<b>478.17</b>	<b>0.00</b>	<b>0.00</b>	-	<b>330 / 110 J</b>	<b>2,700</b>	<b>&lt;5</b>	<b>&lt;5</b>	<b>&lt;5</b>	<b>&lt;5</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	-	

**Table 1**  
**Groundwater Monitoring and Sampling Data**  
**Former Texaco Station (Chevron 307233)**  
**2259 First Street**  
**Livermore, California**

Location	Date	TOC	DTW	GWE	LNAPL	LNAPL REMOVED	HYDROCARBONS			PRIMARY VOCS				GENERAL CHEMISTRY								
							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
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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-11	09/11/2014 <sup>5</sup>	490.59	34.22	456.37	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-11	03/24/2015 <sup>5</sup>	490.59	34.05	456.54	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-11	09/24/2015 <sup>5</sup>	490.59	34.35	456.24	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-11	03/10/2016 <sup>5</sup>	490.59	34.25	456.34	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-11	11/10/2016 <sup>5</sup>	490.59	34.18	456.41	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>MW-11</b>	<b>03/09/2017<sup>5</sup></b>	<b>490.59</b>	<b>14.79</b>	<b>475.80</b>	<b>0.00</b>	<b>0.00</b>	-	<b>&lt;110 / &lt;110</b>	<b>&lt;100</b>	<b>&lt;1</b>	<b>&lt;1</b>	<b>&lt;1</b>	<b>&lt;1</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	
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	-	-	-	-	-	-	-	-	-
MW-12	03/24/2015 <sup>4</sup>	493.72	29.88	463.84	0.00	0.00	-	720 / 240	1,300	9	0.8 J	1	2	-	-	-	-	-	-	-	-	-
MW-12	09/24/2015 <sup>4</sup>	493.72	29.92	463.80	0.00	0.00	-	640 / 190	2,800	10	1	1	2	-	-	-	-	-	-	-	-	-
MW-12	03/10/2016 <sup>4</sup>	493.72	26.73	466.99	0.00	0.00	670	490 / 160	2,400	5	0.6 J	0.9 J	0.9 J	-	-	-	-	-	-	-	-	-
MW-12	11/10/2016 <sup>4</sup>	493.72	27.03	466.69	0.00	0.00	-	480 / 210	2,400	0.7 J	<1	0.7 J	<1	-	-	-	-	-	-	-	-	-
<b>MW-12</b>	<b>03/09/2017<sup>4</sup></b>	<b>493.72</b>	<b>16.21</b>	<b>477.51</b>	<b>0.00</b>	<b>0.00</b>	-	<b>430 / 78 J</b>	<b>2,100</b>	<b>1</b>	<b>&lt;1</b>	<b>0.6 J</b>	<b>&lt;1</b>	-	-	-	-	-	-	-	-	-

**Table 1**  
**Groundwater Monitoring and Sampling Data**  
**Former Texaco Station (Chevron 307233)**  
**2259 First Street**  
**Livermore, California**

Location	Date	TOC	DTW	GWE	LNAPL	LNAPL REMOVED	HYDROCARBONS			PRIMARY VOCS				GENERAL CHEMISTRY									
							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	
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	-	-	-	-	-	-	-	-	-	-
QA	03/24/2015	-	-	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-
QA	09/24/2015	-	-	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-
QA	03/10/2016	-	-	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-
QA	11/10/2016	-	-	-	-	-	-	-	<100	<1	<1	<1	<1	-	-	-	-	-	-	-	-	-	-
QA	03/09/2017	-	-	-	-	-	-	-	<100	<1	<1	<1	<1	-	-	-	-	-	-	-	-	-	-

**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

**Table 1**  
**Groundwater Monitoring and Sampling Data**  
**Former Texaco Station (Chevron 307233)**  
**2259 First Street**  
**Livermore, California**

Location	Date	TOC	DTW	GWE	LNAPL	LNAPL REMOVED	HYDROCARBONS			PRIMARY VOCS				GENERAL CHEMISTRY							
							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

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

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 sample was collected
- 9 Skimmer in well
- 10 Monitored only
- 11 Dry Well

# Attachment A Groundwater Monitoring and Sampling Data Package





# GETTLER-RYAN INC.



## TRANSMITTAL

March 15, 2017  
G-R #17155876

TO: Mr. Brian Silva  
GHD  
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 <b>First Semi-Annual Event of March 9, 2017</b>

### 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.





## **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. Total well depths are measured annually.

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 Job Number: 17155876  
 Site Address: 2259 First Street Event Date: 3.9.17 (inclusive)  
 City: Livermore, CA Sampler: FR

Well ID: MW-1 Date Monitored: 3.9.17  
 Well Diameter: 2 in.  
 Total Depth: 58.87 ft.  
 Depth to Water: 12.73 ft.  Check if water column is less than 0.50 ft.  
46.14 xVF .17 = 7.84 x3 case volume = Estimated Purge Volume: 240 gal.  
 Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 21.95

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): 0950 Weather Conditions: SYNTH  
 Sample Time/Date: 1012/39.17 Water Color: CLEAR Odor: Y 10  
 Approx. Flow Rate: =2.0 gpm. Sediment Description: NONE  
 Did well de-water? NO If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal. DTW @ Sampling: 13.05

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS) / mS (µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
<u>0954</u>	<u>8.0</u>	<u>7.65</u>	<u>864</u>	<u>19.4</u>		
<u>0958</u>	<u>16.0</u>	<u>7.61</u>	<u>871</u>	<u>19.9</u>		
<u>1002</u>	<u>24.0</u>	<u>7.59</u>	<u>880</u>	<u>20.3</u>		

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-1	<u>6</u> x voa vial	YES	HCL	EUROFINS	TPH-GRO(8015)/BTEX(8260)
	<u>2</u> x 500ml ambers	YES	NP	EUROFINS	TPH-DRO w/sgc COLUMN/TPH-DRO w/sgc(8015)

COMMENTS: Emco 12" AL



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

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

Job Number: 17155876  
 Event Date: 3.9.17 (inclusive)  
 Sampler: FT

Well ID: MW-2  
 Well Diameter: 2 in.  
 Total Depth: 58.69 ft.  
 Depth to Water: 13.56 ft.

Date Monitored: 3.9.17

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

Depth to Water: 45.13 xVF .17 = 7.67 x3 case volume = Estimated Purge Volume: 23.0 gal.  
 Depth to Water w/ 80% Recharge ((Height of Water Column x 0.20) + DTW): 22.58

### 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): 0905  
 Sample Time/Date: 0930 / 3.9.17  
 Approx. Flow Rate: 22.0 gpm.  
 Did well de-water? No If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Weather Conditions: Sunny  
 Water Color: CLEAR Odor: Y 10  
 Sediment Description: None  
 DTW @ Sampling: 14.60

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (mS μmhos/cm)	Temperature (°/ F)	D.O. (mg/L)	ORP (mV)
<u>0909</u>	<u>8.0</u>	<u>7.69</u>	<u>804</u>	<u>19.5</u>	_____	_____
<u>0913</u>	<u>16.0</u>	<u>7.65</u>	<u>813</u>	<u>19.9</u>	_____	_____
<u>0917</u>	<u>23.0</u>	<u>7.61</u>	<u>821</u>	<u>20.2</u>	_____	_____

### LABORATORY INFORMATION

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

COMMENTS: EMCO 12" OIL



# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

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

Job Number: 17155876  
 Event Date: 3-9-17 (inclusive)  
 Sampler: ML

Well ID: MW-3  
 Well Diameter: 2 in.  
 Total Depth: 59.4 ft.  
 Depth to Water: 12.93 ft.

Date Monitored: 3-9-17

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.

46.48 xVF 17 = 7.9 x3 case volume = Estimated Purge Volume: 23.7 gal.

Depth to Water w/ 80% Recharge ((Height of Water Column x 0.20) + DTW): 22.22

**Purge Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump X  
 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): 0955  
 Sample Time/Date: 1030 13-9-17  
 Approx. Flow Rate: 2 gpm.  
 Did well de-water? No If yes, Time: \_\_\_\_\_

Weather Conditions: Sunny  
 Water Color: cloudy Odor: Y1(N)  
 Sediment Description: light  
 Volume: \_\_\_\_\_ gal. DTW @ Sampling: 16.89

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS/cm)	Temperature (°C / °F)	D.O. (mg/L)	ORP (mV)
<u>0959</u>	<u>8</u>	<u>6.82</u>	<u>713</u>	<u>17.6</u>		
<u>1003</u>	<u>16</u>	<u>6.85</u>	<u>730</u>	<u>18.0</u>		
<u>1007</u>	<u>24</u>	<u>6.91</u>	<u>726</u>	<u>18.2</u>		

### LABORATORY INFORMATION

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

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



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

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

Job Number: 17155876  
 Event Date: 3-9-17 (inclusive)  
 Sampler: ML

Well ID: MW-4  
 Well Diameter: 2 in.  
 Total Depth: 58.93 ft.  
 Depth to Water: 14.18 ft.  
44.75 xVF .17 = 7.6

Date Monitored: 3-9-17

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: 22.8 gal.

Depth to Water w/ 80% Recharge ((Height of Water Column x 0.20) + DTW): 23.13

### Purge Equipment:

Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump X  
 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): 1050 Weather Conditions: Sun 4  
 Sample Time/Date: 1120 / 3-9-17 Water Color: Cloudy Odor: WIN STRONG  
 Approx. Flow Rate: 2 gpm. Sediment Description: light  
 Did well de-water? NO If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal. DTW @ Sampling: 17.18

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (°F)	D.O. (mg/L)	ORP (mV)
<u>1054</u>	<u>8</u>	<u>6.76</u>	<u>791</u>	<u>17.0</u>	_____	_____
<u>1058</u>	<u>16</u>	<u>6.85</u>	<u>802</u>	<u>17.2</u>	_____	_____
<u>1102</u>	<u>24</u>	<u>6.87</u>	<u>805</u>	<u>17.5</u>	_____	_____

### LABORATORY INFORMATION

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

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 Job Number: 17155876  
 Site Address: 2259 First Street Event Date: 3-9-17 (inclusive)  
 City: Livermore, CA Sampler: ML

Well ID: MW-5 Date Monitored: 3-9-17  
 Well Diameter: 2 in.  
 Total Depth: 59.92 ft.  
 Depth to Water: 13.42 ft.  Check if water column is less than 0.50 ft.  
46.50 xVF 17 = 7.9 x3 case volume = Estimated Purge Volume: 23.7 gal.  
 Depth to Water w/ 80% Recharge ((Height of Water Column x 0.20) + DTW): 22.72

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 X  
 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): 0725 Weather Conditions: Sunny  
 Sample Time/Date: 0755 13-9-17 Water Color: cloudy Odor: YKN  
 Approx. Flow Rate: 2 gpm. Sediment Description: light  
 Did well de-water? NO If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal DTW @ Sampling: 16.19

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (° F)	D.O. (mg/L)	ORP (mV)
<u>0729</u>	<u>8</u>	<u>7.16</u>	<u>840</u>	<u>14.5</u>	_____	_____
<u>0733</u>	<u>16</u>	<u>7.24</u>	<u>856</u>	<u>15.1</u>	_____	_____
<u>0737</u>	<u>24</u>	<u>7.26</u>	<u>851</u>	<u>15.3</u>	_____	_____

### LABORATORY INFORMATION

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

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

Add/Replaced Gasket: \_\_\_\_\_ Add/Replaced Bolt: 2 Add/Replaced Lock: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #307233 Job Number: 17155876  
 Site Address: 2259 First Street Event Date: 3-9-17 (inclusive)  
 City: Livermore, CA Sampler: ML

Well ID: MW-6 Date Monitored: 3-9-17  
 Well Diameter: 2 in.  
 Total Depth: 59.01 ft.  
 Depth to Water: 13.83 ft.  Check if water column is less than 0.50 ft.  
45.18 xVF .17 = 7.6 x3 case volume = Estimated Purge Volume: 22.8 gal.  
 Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 22.86

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 X  
 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 Weather Conditions: Sunny  
 Sample Time/Date: 0845 3-9-17 Water Color: Cloudy Odor: YH Light  
 Approx. Flow Rate: 2 gpm. Sediment Description: light  
 Did well de-water? NO If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal. DTW @ Sampling: 17.16

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS/mS / µmhos/cm)	Temperature (°C / °F)	D.O. (mg/L)	ORP (mV)
<u>0819</u>	<u>8</u>	<u>6.91</u>	<u>872</u>	<u>16.4</u>		
<u>0823</u>	<u>16</u>	<u>6.99</u>	<u>860</u>	<u>16.9</u>		
<u>0827</u>	<u>24</u>	<u>7.10</u>	<u>863</u>	<u>17.2</u>		

### LABORATORY INFORMATION

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

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: 17155876  
 Event Date: 3.9.17 (inclusive)  
 Sampler: FC

Well ID: MW-7  
 Well Diameter: 2 in.  
 Total Depth: 32.68 ft.  
 Depth to Water: 13.85 ft.  
18.83 xVF .17 = 3.20

Date Monitored: 3.9.17

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: 10.0 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 17.61

### 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): 0815  
 Sample Time/Date: 0845 / 3.9.17  
 Approx. Flow Rate: / gpm.  
 Did well de-water? No If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Weather Conditions: SUNNY  
 Water Color: CLEAN Odor: (Y) / N STRONG  
 Sediment Description: NONE  
 DTW @ Sampling: 15.26

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (° / F)	D.O. (mg/L)	ORP (mV)
<u>0822</u>	<u>3.5</u>	<u>7.21</u>	<u>856</u>	<u>18.9</u>	_____	_____
<u>0829</u>	<u>7.0</u>	<u>7.19</u>	<u>863</u>	<u>19.1</u>	_____	_____
<u>0835</u>	<u>10.0</u>	<u>7.16</u>	<u>871</u>	<u>19.5</u>	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-7</u>	<u>6</u> x voa vial	YES	HCL	EUROFINS	TPH-GRO(8015)/BTEX(8260)
	<u>2</u> x 500ml ambers	YES	NP	EUROFINS	TPH-DRO w/sgc COLUMN/TPH-DRO w/sgc(8015)

COMMENTS: MONITOR 6" (1SF)

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: 17155876  
 Event Date: 3.9.17 (inclusive)  
 Sampler: FT

Well ID: MW-8  
 Well Diameter: 2 in.  
 Total Depth: 38.64 ft.  
 Depth to Water: 13.65 ft.  
24.99 xVF .17 = 4.24

Date Monitored: 3.9.17

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: 13.0 gal.

Depth to Water w/ 80% Recharge ((Height of Water Column x 0.20) + DTW): 18.64

**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): 1200  
 Sample Time/Date: 1240 / 3.9.17  
 Approx. Flow Rate: \_\_\_\_\_ gpm.  
 Did well de-water? NO If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Weather Conditions: Sunny  
 Water Color: Clear Odor: ⊙ / N Stinky  
 Sediment Description: None  
 DTW @ Sampling: 14.03

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS mS µmhos/cm)	Temperature (° / F)	D.O. (mg/L)	ORP (mV)
<u>1208</u>	<u>4.0</u>	<u>7.35</u>	<u>650</u>	<u>20.4</u>	_____	_____
<u>1216</u>	<u>8.0</u>	<u>7.31</u>	<u>661</u>	<u>20.7</u>	_____	_____
<u>1226</u>	<u>13.0</u>	<u>7.27</u>	<u>672</u>	<u>21.0</u>	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-8</u>	<u>6</u> x voa vial	<u>YES</u>	<u>HCL</u>	<u>EUROFINS</u>	<u>TPH-GRO(8015)/BTEX(8260)</u>
	<u>2</u> x 500ml ambers	<u>YES</u>	<u>NP</u>	<u>EUROFINS</u>	<u>TPH-DRO w/sgc COLUMN/TPH-DRO w/sgc(8015)</u>

COMMENTS: SHEEN PRESENT IN H2O  
FACE 12" OIL

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: 17155876  
 Event Date: 3-9-17 (inclusive)  
 Sampler: ML

Well ID: MW-9

Date Monitored: 3-9-17

Well Diameter: 2 in.

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

Total Depth: 39.85 ft.

Depth to Water: 22.10 ft.

Check if water column is less than 0.50 ft.

17.75 xVF 17 = 3.0

x3 case volume = Estimated Purge Volume: 9 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 25.65

**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): 0900  
 Sample Time/Date: 0935 13-9-17  
 Approx. Flow Rate: \_\_\_\_\_ gpm.  
 Did well de-water? No If yes, Time: \_\_\_\_\_

Weather Conditions: Sunny  
 Water Color: Light Brown Odor: Y/N  
 Sediment Description: light  
 Volume: \_\_\_\_\_ gal. DTW @ Sampling: 23.91

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS) mS (µmhos/cm)	Temperature (° F)	D.O. (mg/L)	ORP (mV)
<u>0908</u>	<u>3</u>	<u>6.81</u>	<u>1265</u>	<u>16.6</u>	_____	_____
<u>0916</u>	<u>6</u>	<u>6.90</u>	<u>1256</u>	<u>17.0</u>	_____	_____
<u>0923</u>	<u>9</u>	<u>6.93</u>	<u>1252</u>	<u>17.1</u>	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-9</u>	<u>4</u> x voa vial	YES	HCL	EUROFINS	TPH-GRO(8015)/BTEX(8260)
	<u>2</u> x 500ml ambers	YES	NP	EUROFINS	TPH-DRO w/sgc COLUMN/TPH-DRO w/sgc(8015)

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



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

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

Job Number: 17155876  
 Event Date: 3.9.17 (inclusive)  
 Sampler: FT

Well ID: MW-10  
 Well Diameter: 2 in.  
 Total Depth: 32.40 ft.  
 Depth to Water: 12.98 ft.  
19.42 xVF .17 = 3.30

Date Monitored: 3.9.17

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: 10.0 gal.

Depth to Water w/ 80% Recharge ((Height of Water Column x 0.20) + DTW): 16.86

### 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): 1030  
 Sample Time/Date: 1100 / 3.9.17  
 Approx. Flow Rate: / gpm.  
 Did well de-water? NO If yes, Time: \_\_\_\_\_

Weather Conditions: Sunny  
 Water Color: CLEAN Odor: 0 / N SLIGHT  
 Sediment Description: NONE  
 Volume: \_\_\_\_\_ gal. DTW @ Sampling: 14.68

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS / umhos/cm)	Temperature (° / F)	D.O. (mg/L)	ORP (mV)
<u>1037</u>	<u>3.5</u>	<u>7.38</u>	<u>705</u>	<u>20.0</u>	<u>/</u>	<u>/</u>
<u>1044</u>	<u>7.0</u>	<u>7.41</u>	<u>715</u>	<u>20.3</u>	<u>/</u>	<u>/</u>
<u>1050</u>	<u>10.0</u>	<u>7.44</u>	<u>721</u>	<u>20.9</u>	<u>/</u>	<u>/</u>

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-10</u>	<u>6</u> x voa vial	YES	HCL	EUROFINS	TPH-GRO(8015)/BTEX(8260)
	<u>2x</u> 500ml ambers	YES	NP	EUROFINS	TPH-DRO w/sgc COLUMN/TPH-DRO w/sgc(8015)

COMMENTS: 8" Box 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: 17155876  
 Site Address: 2259 First Street Event Date: 3.9.17 (inclusive)  
 City: Livermore, CA Sampler: FR

Well ID: MW-11 Date Monitored: 3.9.17  
 Well Diameter: 2 in.  
 Total Depth: 34.75 ft.  
 Depth to Water: 14.79 ft.  Check if water column is less than 0.50 ft.  
19.96 xVF .17 = 3.39 x3 case volume = Estimated Purge Volume: 10.0 gal.  
 Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 18.78

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): 1115 Weather Conditions: Sunny  
 Sample Time/Date: 1145 / 3.9.17 Water Color: CLEAN Odor: 0 / N SLIGHT  
 Approx. Flow Rate: / gpm. Sediment Description: NONE  
 Did well de-water? NO If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal. DTW @ Sampling: 16.35

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (US) mS (µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
<u>1122</u>	<u>3.5</u>	<u>7.43</u>	<u>789</u>	<u>20.1</u>	_____	_____
<u>1129</u>	<u>7.0</u>	<u>7.46</u>	<u>796</u>	<u>20.4</u>	_____	_____
<u>1135</u>	<u>10.0</u>	<u>7.48</u>	<u>802</u>	<u>20.9</u>	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-11</u>	<u>6</u> x voa vial	YES	HCL	EUROFINS	TPH-GRO(8015)/BTEX(8260)
	<u>2</u> x 500ml ambers	YES	NP	EUROFINS	TPH-DRO w/sgc COLUMN/TPH-DRO w/sgc(8015)

COMMENTS: UNIVERSAL 8" (280)

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: 17155876  
 Event Date: 3-9-17 (inclusive)  
 Sampler: ML

Well ID: MW-12

Date Monitored: 3-9-17

Well Diameter: 2 in.

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

Total Depth: 34.55 ft.

Depth to Water: 16.21 ft.

Check if water column is less than 0.50 ft.

18.34 xVF .17 = 3.1 x3 case volume = Estimated Purge Volume: 9.3 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 19.87

**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): 1135  
 Sample Time/Date: 1210 13-9-17  
 Approx. Flow Rate: - gpm.  
 Did well de-water? No If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_

Weather Conditions: Sunny  
 Water Color: cloudy Odor: 0/N light  
 Sediment Description: light  
 gal. DTW @ Sampling: 17.69

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS/mS / µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
<u>1143</u>	<u>3</u>	<u>7.16</u>	<u>1568</u>	<u>17.8</u>	_____	_____
<u>1150</u>	<u>6</u>	<u>7.27</u>	<u>1549</u>	<u>18.1</u>	_____	_____
<u>1158</u>	<u>9.5</u>	<u>7.24</u>	<u>1532</u>	<u>18.4</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>EUROFINS</u>	<u>TPH-GRO(8015)/BTEX(8260)</u>
	<u>2</u> x 500ml ambers	<u>YES</u>	<u>NP</u>	<u>EUROFINS</u>	<u>TPH-DRO w/sgc COLUMN/TPH-DRO w/sgc(8015)</u>

**COMMENTS:**

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



# Chevron California Region Analysis Request/Chain of Custody



**544**  
**Lancaster Laboratories**  
**Environmental**

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

For Eurofins Lancaster Laboratories Environmental use only

Group # \_\_\_\_\_ Sample # \_\_\_\_\_

Instructions on reverse side correspond with circled numbers.

030917-03

1072

Client Information				Matrix			Analyses Requested										SCR #: _____				
Facility # <b>SS#307233-OML G-R#17155876 Global ID#T0600196622</b> Site Address <b>2259 FIRST STREET, LIVERMORE, CA</b> Chevron PM <b>GHDSB</b> 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>				Sediment <input type="checkbox"/> Potable <input type="checkbox"/> NPDES <input type="checkbox"/> Air <input type="checkbox"/> Ground <input checked="" type="checkbox"/> Surface <input type="checkbox"/>			Total Number of Containers _____ BTEX + 8021 <input checked="" type="checkbox"/> 8260 <input type="checkbox"/> TPH-GRO <input checked="" type="checkbox"/> 8015 <input type="checkbox"/> TPH-DRO 8015 without Silica Gel Cleanup <input type="checkbox"/> TPH-DRO 8015 with Silica Gel Cleanup <input checked="" type="checkbox"/> 8260 Full Scan _____ Oxygenates _____ Total Lead Method _____ Dissolved Lead Method _____ TPH-DRO w/sgc										Results in Dry Weight <input type="checkbox"/> J value reporting needed <input type="checkbox"/> Must meet lowest detection limits possible for 8260 compounds <input type="checkbox"/> 8021 MTBE Confirmation <input type="checkbox"/> Confirm highest hit by 8260 <input type="checkbox"/> Confirm all hits by 8260 <input type="checkbox"/> Run _____ oxy's on highest hit <input type="checkbox"/> Run _____ oxy's on all hits <input type="checkbox"/>				
Sample Identification		Soil Depth	Collected		Grab	Composite	Soil	Water	Oil	Total Number of Containers	BTEX + 8021	TPH-GRO	TPH-DRO 8015 without Silica Gel Cleanup	TPH-DRO 8015 with Silica Gel Cleanup	8260 Full Scan	Oxygenates	Total Lead	Dissolved Lead	TPH-DRO w/sgc	Remarks	
			Date	Time																	
QA			170309		X		X		8	X	X									Please report DRO w/sgc using 10 grams of silica and also report 1 gram shake results  MAR 17 1525	
MW-1				1012	X		X		8	X	X										
MW-2				0930	X		X		8	X	X										
MW-3				1030	X		X		8	X	X										
MW-4				1120	X		X		8	X	X										
MW-5				0755	X		X		8	X	X										
MW-6				0845	X		X		8	X	X										
MW-7				0845	X		X		8	X	X										
MW-8				1240	X		X		8	X	X										
MW-9				0935	X		X		8	X	X										
<b>Turnaround Time Requested (TAT) (please circle)</b> Standard 5 day 4 day 72 hour 48 hour 24 hour					Relinquished by _____ Date 17.3.9 Time _____ Relinquished by _____ Date _____ Time _____					Received by _____ Date _____ Time _____ Received by _____ Date _____ Time _____											
<b>Data Package (circle if required)</b> EDF/EDD Type I - Full Type VI (Raw Data)					Relinquished by _____ Date _____ Time _____ Relinquished by Commercial Carrier: _____ UPS _____ FedEx _____ Other _____					Received by _____ Date _____ Time _____ Received by _____ Date _____ Time _____											
<b>EDD (circle if required)</b> EDFFLAT (default) Other: _____					Temperature Upon Receipt _____ °C					Custody Seals Intact? Yes No											

# Chevron California Region Analysis Request/Chain of Custody



**Lancaster Laboratories Environmental**

For Eurofins Lancaster Laboratories Environmental use only

Acct. # \_\_\_\_\_ Group # \_\_\_\_\_ Sample # \_\_\_\_\_

Instructions on reverse side correspond with circled numbers.

20 Bz

636917-43

Client Information				Matrix			Analyses Requested										SCR #: _____		
Facility # <b>SS1307233-OML G-R#17155876</b> Global ID# <b>T0600196622</b> <span style="float: right;">WBS</span>				<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	<input type="checkbox"/> Soil <input checked="" type="checkbox"/> Water <input type="checkbox"/> Oil	Total Number of Containers 8260 <input checked="" type="checkbox"/> 8021 <input type="checkbox"/> 8260 <input type="checkbox"/> 8015 <input checked="" type="checkbox"/>	TPH-DRO 8015 without Silica Gel Cleanup <input type="checkbox"/>	TPH-DRO 8015 with Silica Gel Cleanup <input checked="" type="checkbox"/>	8260 Full Scan	Oxygenates	Total Lead Method	Dissolved Lead Method	TPH-DRO w/sgc	Results in Dry Weight <input type="checkbox"/> J value reporting needed <input type="checkbox"/> Must meet lowest detection limits possible for 8260 compounds <input type="checkbox"/> 8021 MTBE Confirmation <input type="checkbox"/> Confirm highest hit by 8260 <input type="checkbox"/> Confirm all hits by 8260 <input type="checkbox"/> Run _____ oxy's on highest hit <input type="checkbox"/> Run _____ oxy's on all hits <input type="checkbox"/>	Remarks  <b>Please report DRO w/sgc using 10 grams of silica and also report 1 gram shake results</b>				
Site Address <b>2259 FIRST STREET, LIVERMORE, CA</b>																			
Chevron PM <b>CM</b> 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>Mike L. Frank T</b>																			
Sample Identification	Soil Depth	Collected		Grab	Composite	Soil	Water	Oil	Total Number of Containers	BTEX + 8260	TPH-GRO	TPH-DRO 8015 without Silica Gel Cleanup	TPH-DRO 8015 with Silica Gel Cleanup	8260 Full Scan	Oxygenates	Total Lead Method	Dissolved Lead Method	TPH-DRO w/sgc	Remarks
		Date	Time																
MW-10		170309	1100	X			X		8	X	X	X						X	
MW-11		↓	1145	X			X		8	X	X	X						X	
MW-12		↓	1210	X			X		8	X	X	X						X	
<b>Turnaround Time Requested (TAT) (please circle)</b> Standard <input checked="" type="radio"/> 5 day      4 day 72 hour      48 hour      24 hour				Relinquished by <i>[Signature]</i> Date <b>17.3.9</b> Time _____			Received by <i>[Signature]</i> Date <b>3 MAR 17</b> Time <b>1525</b>												
<b>Data Package (circle if required)</b> EDF/EDD				Relinquished by _____      Date _____      Time _____			Received by _____      Date _____      Time _____												
Type I - Full      Type VI (Raw Data)				Relinquished by Commercial Carrier:			Received by _____      Date _____      Time _____												
<b>EDD (circle if required)</b> EDFFLAT (default)      Other: _____				UPS _____ FedEx _____ Other <i>[Signature]</i>			Received by <i>[Signature]</i> Date <b>3 MAR 17</b> Time <b>1215</b>												
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

Report Date: March 28, 2017

**Project: 307233**

Submittal Date: 03/10/2017  
Group Number: 1775506  
PO Number: 0015235605  
Release Number: CMACLEOD  
State of Sample Origin: CA

Client Sample Description

QA-T-170309 NA Water  
MW-1-W-170309 Grab Groundwater  
MW-1-W-170309 Grab Groundwater  
MW-2-W-170309 Grab Groundwater  
MW-2-W-170309 Grab Groundwater  
MW-3-W-170309 Grab Groundwater  
MW-3-W-170309 Grab Groundwater  
MW-4-W-170309 Grab Groundwater  
MW-4-W-170309 Grab Groundwater  
MW-5-W-170309 Grab Groundwater  
MW-5-W-170309 Grab Groundwater  
MW-6-W-170309 Grab Groundwater  
MW-6-W-170309 Grab Groundwater  
MW-7-W-170309 Grab Groundwater  
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MW-8-W-170309 Grab Groundwater  
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MW-9-W-170309 Grab Groundwater  
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MW-10-W-170309 Grab Groundwater  
MW-10-W-170309 Grab Groundwater  
MW-11-W-170309 Grab Groundwater  
MW-11-W-170309 Grab Groundwater  
MW-12-W-170309 Grab Groundwater  
MW-12-W-170309 Grab Groundwater

Lancaster Labs

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

REVISED

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our current scopes of accreditation can be viewed at <http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/>. To request copies of prior scopes of accreditation, contact your project manager.

Electronic Copy To GHD  
Electronic Copy To GHD  
Electronic Copy To GHD  
Electronic Copy To Gettler-Ryan Inc.

Attn: Brian Silva  
Attn: Anna Avina  
Attn: Report Contact  
Attn: Gettler Ryan

Respectfully Submitted,



Amek Carter  
Specialist

(717) 556-7252

Sample Description: QA-T-170309 NA Water  
Facility# 307233 Job# 17155876 GRD  
2259 First St-Livermore T0600196622

LL Sample # WW 8878333  
LL Group # 1775506  
Account # 10904

Project Name: 307233

Collected: 03/09/2017

Chevron

Submitted: 03/10/2017 10:30

L4310

Reported: 03/28/2017 15:02

6001 Bollinger Canyon Rd.  
San Ramon CA 94583

FSLQA

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
<b>GC/MS Volatiles SW-846 8260B</b>						
10945	Benzene	71-43-2	N.D.	ug/1 0.5	ug/1 1	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1	1
10945	Toluene	108-88-3	N.D.	0.5	1	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1	1
<b>GC Volatiles SW-846 8015B</b>						
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	ug/1 50	ug/1 100	1

### 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
10945	BTEX 8260B Water	SW-846 8260B	1	F170795AA	03/20/2017 21:27	Hu Yang	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F170795AA	03/20/2017 21:27	Hu Yang	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	17075B20A	03/16/2017 13:14	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	17075B20A	03/16/2017 13:14	Brett W Kenyon	1

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

Sample Description: MW-1-W-170309 Grab Groundwater  
Facility# 307233 Job# 17155876 GRD  
2259 First St-Livermore T0600196622

LL Sample # WW 8878334  
LL Group # 1775506  
Account # 10904

Project Name: 307233

Collected: 03/09/2017 10:12 by ML Chevron  
L4310  
Submitted: 03/10/2017 10:30 6001 Bollinger Canyon Rd.  
Reported: 03/28/2017 15:02 San Ramon CA 94583

FSL01

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
<b>GC/MS Volatiles SW-846 8260B ug/1</b>						
10945	Benzene	71-43-2	N.D.	0.5	1	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1	1
10945	Toluene	108-88-3	N.D.	0.5	1	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1	1
<b>GC Volatiles SW-846 8015B ug/1</b>						
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	100	1
<b>GC Petroleum SW-846 8015B ug/1</b>						
<b>Hydrocarbons w/Si</b>						
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	N.D.	50	110	1
The reverse surrogate, capric acid, is present at <1%.						

### 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
10945	BTEX 8260B Water	SW-846 8260B	1	F170795AA	03/20/2017 21:49	Hu Yang	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F170795AA	03/20/2017 21:49	Hu Yang	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	17075B20A	03/16/2017 15:03	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	17075B20A	03/16/2017 15:03	Brett W Kenyon	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	170740021A	03/21/2017 00:01	Amy Lehr	1
11180	Low Vol Ext (W) w/SG	SW-846 3510C	1	170740021A	03/16/2017 09:00	Nadia Bernabe	1

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

Sample Description: MW-1-W-170309 Grab Groundwater  
Facility# 307233 Job# 17155876 GRD  
2259 First St-Livermore T0600196622

LL Sample # WW 8878335  
LL Group # 1775506  
Account # 10904

Project Name: 307233

Collected: 03/09/2017 10:12 by ML Chevron  
L4310  
Submitted: 03/10/2017 10:30 6001 Bollinger Canyon Rd.  
Reported: 03/28/2017 15:02 San Ramon CA 94583

FSL-1

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
	<b>GC Petroleum Hydrocarbons w/Si</b>	<b>SW-846 8015B</b>	ug/l	ug/l	ug/l	
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	N.D.	50	110	1

### 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	2	170740022A	03/17/2017 02:17	Amy Lehr	1
11180	Low Vol Ext (W) w/SG	SW-846 3510C	1	170740022A	03/16/2017 09:00	Nadia Bernabe	1

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



Sample Description: MW-2-W-170309 Grab Groundwater  
Facility# 307233 Job# 17155876 GRD  
2259 First St-Livermore T0600196622

LL Sample # WW 8878336  
LL Group # 1775506  
Account # 10904

Project Name: 307233

Collected: 03/09/2017 09:30 by ML Chevron  
L4310  
Submitted: 03/10/2017 10:30 6001 Bollinger Canyon Rd.  
Reported: 03/28/2017 15:02 San Ramon CA 94583

FSL02

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
<b>GC/MS Volatiles SW-846 8260B</b>						
10945	Benzene	71-43-2	N.D.	0.5	1	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1	1
10945	Toluene	108-88-3	N.D.	0.5	1	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1	1
<b>GC Volatiles SW-846 8015B</b>						
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	100	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	110	1
The reverse surrogate, capric acid, is present at <1%.						

### 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
10945	BTEX 8260B Water	SW-846 8260B	1	F170796AA	03/21/2017 01:59	Hu Yang	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F170796AA	03/21/2017 01:59	Hu Yang	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	17075B20A	03/16/2017 15:30	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	17075B20A	03/16/2017 15:30	Brett W Kenyon	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	170740021A	03/21/2017 00:23	Amy Lehr	1
11180	Low Vol Ext (W) w/SG	SW-846 3510C	1	170740021A	03/16/2017 09:00	Nadia Bernabe	1

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

Sample Description: MW-2-W-170309 Grab Groundwater  
 Facility# 307233 Job# 17155876 GRD  
 2259 First St-Livermore T0600196622

LL Sample # WW 8878337  
 LL Group # 1775506  
 Account # 10904

Project Name: 307233

Collected: 03/09/2017 09:30 by ML Chevron  
 Submitted: 03/10/2017 10:30 L4310  
 Reported: 03/28/2017 15:02 6001 Bollinger Canyon Rd.  
 San Ramon CA 94583

FSL-2

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
	<b>GC Petroleum Hydrocarbons w/Si</b>	<b>SW-846 8015B</b>	ug/l	ug/l	ug/l	
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	N.D.	50	110	1

**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	2	170740022A	03/17/2017 02:39	Amy Lehr	1
11180	Low Vol Ext (W) w/SG	SW-846 3510C	1	170740022A	03/16/2017 09:00	Nadia Bernabe	1

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

Sample Description: MW-3-W-170309 Grab Groundwater  
Facility# 307233 Job# 17155876 GRD  
2259 First St-Livermore T0600196622

LL Sample # WW 8878338  
LL Group # 1775506  
Account # 10904

Project Name: 307233

Collected: 03/09/2017 10:30 by ML Chevron  
L4310  
Submitted: 03/10/2017 10:30 6001 Bollinger Canyon Rd.  
Reported: 03/28/2017 15:02 San Ramon CA 94583

FSL03

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
<b>GC/MS Volatiles</b>						
	<b>SW-846 8260B</b>		<b>ug/l</b>	<b>ug/l</b>	<b>ug/l</b>	
10945	Benzene	71-43-2	N.D.	0.5	1	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1	1
10945	Toluene	108-88-3	N.D.	0.5	1	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1	1
<b>GC Volatiles</b>						
	<b>SW-846 8015B</b>		<b>ug/l</b>	<b>ug/l</b>	<b>ug/l</b>	
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	100	1
<b>GC Petroleum Hydrocarbons w/Si</b>						
	<b>SW-846 8015B</b>		<b>ug/l</b>	<b>ug/l</b>	<b>ug/l</b>	
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	N.D.	50	110	1
	The reverse surrogate, capric acid, is present at <1%.					

### 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
10945	BTEX 8260B Water	SW-846 8260B	1	F170796AA	03/21/2017 06:33	Hu Yang	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F170796AA	03/21/2017 06:33	Hu Yang	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	17079B20A	03/20/2017 13:44	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	17079B20A	03/20/2017 13:44	Brett W Kenyon	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	170740021A	03/21/2017 00:45	Amy Lehr	1
11180	Low Vol Ext (W) w/SG	SW-846 3510C	1	170740021A	03/16/2017 09:00	Nadia Bernabe	1

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

Sample Description: MW-3-W-170309 Grab Groundwater  
Facility# 307233 Job# 17155876 GRD  
2259 First St-Livermore T0600196622

LL Sample # WW 8878339  
LL Group # 1775506  
Account # 10904

Project Name: 307233

Collected: 03/09/2017 10:30 by ML Chevron  
L4310  
Submitted: 03/10/2017 10:30 6001 Bollinger Canyon Rd.  
Reported: 03/28/2017 15:02 San Ramon CA 94583

FSL-3

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
	<b>GC Petroleum Hydrocarbons w/Si</b>	<b>SW-846 8015B</b>	ug/l	ug/l	ug/l	
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	N.D.	50	110	1

**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	2	170740022A	03/17/2017 03:00	Amy Lehr	1
11180	Low Vol Ext (W) w/SG	SW-846 3510C	1	170740022A	03/16/2017 09:00	Nadia Bernabe	1

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

Sample Description: MW-4-W-170309 Grab Groundwater  
Facility# 307233 Job# 17155876 GRD  
2259 First St-Livermore T0600196622

LL Sample # WW 8878340  
LL Group # 1775506  
Account # 10904

Project Name: 307233

Collected: 03/09/2017 11:20 by ML

Chevron

L4310

Submitted: 03/10/2017 10:30

6001 Bollinger Canyon Rd.

Reported: 03/28/2017 15:02

San Ramon CA 94583

FSL04

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
<b>GC/MS Volatiles</b>						
	<b>SW-846 8260B</b>		<b>ug/l</b>	<b>ug/l</b>	<b>ug/l</b>	
10945	Benzene	71-43-2	6	3	5	5
10945	Ethylbenzene	100-41-4	8	3	5	5
10945	Toluene	108-88-3	N.D.	3	5	5
10945	Xylene (Total)	1330-20-7	5	3	5	5
<b>GC Volatiles</b>						
	<b>SW-846 8015B</b>		<b>ug/l</b>	<b>ug/l</b>	<b>ug/l</b>	
01728	TPH-GRO N. CA water C6-C12	n.a.	3,000	500	1,000	10
<b>GC Petroleum Hydrocarbons w/Si</b>						
	<b>SW-846 8015B</b>		<b>ug/l</b>	<b>ug/l</b>	<b>ug/l</b>	
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	230	50	100	1
Target analytes were detected in the method blank associated with the samples 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. The reverse surrogate, capric acid, is present at <1%.						

### 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
10945	BTEX 8260B Water	SW-846 8260B	1	F170796AA	03/21/2017 04:10	Hu Yang	5
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F170796AA	03/21/2017 04:10	Hu Yang	5
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	17079B20A	03/20/2017 20:34	Brett W Kenyon	10
01146	GC VOA Water Prep	SW-846 5030B	1	17079B20A	03/20/2017 20:34	Brett W Kenyon	10
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	170740021A	03/21/2017 01:07	Thomas C Wildermuth	1
11180	Low Vol Ext (W) w/SG	SW-846 3510C	1	170740021A	03/16/2017 09:00	Nadia Bernabe	1

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

Sample Description: MW-4-W-170309 Grab Groundwater  
Facility# 307233 Job# 17155876 GRD  
2259 First St-Livermore T0600196622

LL Sample # WW 8878341  
LL Group # 1775506  
Account # 10904

Project Name: 307233

Collected: 03/09/2017 11:20 by ML Chevron  
L4310  
Submitted: 03/10/2017 10:30 6001 Bollinger Canyon Rd.  
Reported: 03/28/2017 15:02 San Ramon CA 94583

FSL-4

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
<b>GC Petroleum Hydrocarbons w/Si</b>						
	SW-846	8015B	ug/l	ug/l	ug/l	
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	820	50	100	1
Target analytes were detected in the method blank associated with the samples as noted on the QC Summary. Sufficient sample was not available to repeat the analysis.						

### 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	170740022A	03/17/2017 03:22	Amy Lehr	1
11180	Low Vol Ext (W) w/SG	SW-846 3510C	1	170740022A	03/16/2017 09:00	Nadia Bernabe	1

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

Sample Description: MW-5-W-170309 Grab Groundwater  
Facility# 307233 Job# 17155876 GRD  
2259 First St-Livermore T0600196622

LL Sample # WW 8878342  
LL Group # 1775506  
Account # 10904

Project Name: 307233

Collected: 03/09/2017 07:55 by ML Chevron  
L4310  
Submitted: 03/10/2017 10:30 6001 Bollinger Canyon Rd.  
Reported: 03/28/2017 15:02 San Ramon CA 94583

FSL05

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
<b>GC/MS Volatiles SW-846 8260B</b>						
10945	Benzene	71-43-2	N.D.	0.5	1	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1	1
10945	Toluene	108-88-3	N.D.	0.5	1	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1	1
<b>GC Volatiles SW-846 8015B</b>						
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	100	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	100	1
The reverse surrogate, capric acid, is present at <1%.						

### 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
10945	BTEX 8260B Water	SW-846 8260B	1	F170796AA	03/21/2017 02:21	Hu Yang	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F170796AA	03/21/2017 02:21	Hu Yang	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	17075B53A	03/16/2017 15:30	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	17075B53A	03/16/2017 15:30	Brett W Kenyon	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	170740021A	03/21/2017 01:28	Amy Lehr	1
11180	Low Vol Ext (W) w/SG	SW-846 3510C	1	170740021A	03/16/2017 09:00	Nadia Bernabe	1

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

Sample Description: MW-5-W-170309 Grab Groundwater  
Facility# 307233 Job# 17155876 GRD  
2259 First St-Livermore T0600196622

LL Sample # WW 8878343  
LL Group # 1775506  
Account # 10904

Project Name: 307233

Collected: 03/09/2017 07:55 by ML Chevron  
L4310  
Submitted: 03/10/2017 10:30 6001 Bollinger Canyon Rd.  
Reported: 03/28/2017 15:02 San Ramon CA 94583

FSL-5

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
<b>GC Petroleum Hydrocarbons w/Si</b>						
	SW-846	8015B	ug/l	ug/l	ug/l	
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	1,200	50	100	1
Target analytes were detected in the method blank associated with the samples as noted on the QC Summary. Sufficient sample was not available to repeat the analysis.						

### 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	170740022A	03/17/2017 03:44	Amy Lehr	1
11180	Low Vol Ext (W) w/SG	SW-846 3510C	1	170740022A	03/16/2017 09:00	Nadia Bernabe	1

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



Sample Description: MW-6-W-170309 Grab Groundwater  
Facility# 307233 Job# 17155876 GRD  
2259 First St-Livermore T0600196622

LL Sample # WW 8878344  
LL Group # 1775506  
Account # 10904

Project Name: 307233

Collected: 03/09/2017 08:45 by ML

Chevron

L4310

Submitted: 03/10/2017 10:30

6001 Bollinger Canyon Rd.

Reported: 03/28/2017 15:02

San Ramon CA 94583

FSL06

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
<b>GC/MS Volatiles</b>						
	<b>SW-846 8260B</b>		<b>ug/l</b>	<b>ug/l</b>	<b>ug/l</b>	
10945	Benzene	71-43-2	41	0.5	1	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1	1
10945	Toluene	108-88-3	N.D.	0.5	1	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1	1
<b>GC Volatiles</b>						
	<b>SW-846 8015B</b>		<b>ug/l</b>	<b>ug/l</b>	<b>ug/l</b>	
01728	TPH-GRO N. CA water C6-C12	n.a.	740	50	100	1
<b>GC Petroleum Hydrocarbons w/Si</b>						
	<b>SW-846 8015B</b>		<b>ug/l</b>	<b>ug/l</b>	<b>ug/l</b>	
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	N.D.	50	110	1
	The reverse surrogate, capric acid, is present at <1%.					

### 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
10945	BTEX 8260B Water	SW-846 8260B	1	F170796AA	03/21/2017 02:42	Hu Yang	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F170796AA	03/21/2017 02:42	Hu Yang	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	17075B53A	03/16/2017 15:58	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	17075B53A	03/16/2017 15:58	Brett W Kenyon	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	170740021A	03/21/2017 01:50	Amy Lehr	1
11180	Low Vol Ext (W) w/SG	SW-846 3510C	1	170740021A	03/16/2017 09:00	Nadia Bernabe	1

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

Sample Description: MW-6-W-170309 Grab Groundwater  
Facility# 307233 Job# 17155876 GRD  
2259 First St-Livermore T0600196622

LL Sample # WW 8878345  
LL Group # 1775506  
Account # 10904

Project Name: 307233

Collected: 03/09/2017 08:45 by ML Chevron  
L4310  
Submitted: 03/10/2017 10:30 6001 Bollinger Canyon Rd.  
Reported: 03/28/2017 15:02 San Ramon CA 94583

FSL-6

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
<b>GC Petroleum Hydrocarbons w/Si</b>						
	SW-846 8015B		ug/l	ug/l	ug/l	
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	140	50	110	1
Target analytes were detected in the method blank associated with the samples as noted on the QC Summary. Sufficient sample was not available to repeat the analysis.						

### 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	170740022A	03/17/2017 04:06	Amy Lehr	1
11180	Low Vol Ext (W) w/SG	SW-846 3510C	1	170740022A	03/16/2017 09:00	Nadia Bernabe	1

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

Sample Description: MW-7-W-170309 Grab Groundwater  
Facility# 307233 Job# 17155876 GRD  
2259 First St-Livermore T0600196622

LL Sample # WW 8878346  
LL Group # 1775506  
Account # 10904

Project Name: 307233

Collected: 03/09/2017 08:45 by ML Chevron  
L4310  
Submitted: 03/10/2017 10:30 6001 Bollinger Canyon Rd.  
Reported: 03/28/2017 15:02 San Ramon CA 94583

FSL07

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
<b>GC/MS Volatiles SW-846 8260B ug/l</b>						
10945	Benzene	71-43-2	610	5	10	10
10945	Ethylbenzene	100-41-4	190	5	10	10
10945	Toluene	108-88-3	11	5	10	10
10945	Xylene (Total)	1330-20-7	120	5	10	10
<b>GC Volatiles SW-846 8015B ug/l</b>						
01728	TPH-GRO N. CA water C6-C12	n.a.	8,500	2,500	5,000	50
<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.	6,600	50	110	1
The reverse surrogate, capric acid, is present at <1%.						

### 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
10945	BTEX 8260B Water	SW-846 8260B	1	F170796AA	03/21/2017 04:32	Hu Yang	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F170796AA	03/21/2017 04:32	Hu Yang	10
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	17075B53A	03/16/2017 19:13	Brett W Kenyon	50
01146	GC VOA Water Prep	SW-846 5030B	1	17075B53A	03/16/2017 19:13	Brett W Kenyon	50
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	170740021A	03/21/2017 02:55	Amy Lehr	1
11180	Low Vol Ext (W) w/SG	SW-846 3510C	1	170740021A	03/16/2017 09:00	Nadia Bernabe	1

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

Sample Description: MW-7-W-170309 Grab Groundwater  
Facility# 307233 Job# 17155876 GRD  
2259 First St-Livermore T0600196622

LL Sample # WW 8878347  
LL Group # 1775506  
Account # 10904

Project Name: 307233

Collected: 03/09/2017 08:45 by ML Chevron  
L4310  
Submitted: 03/10/2017 10:30 6001 Bollinger Canyon Rd.  
Reported: 03/28/2017 15:02 San Ramon CA 94583

FSL-7

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
	<b>GC Petroleum Hydrocarbons w/Si</b>	<b>SW-846 8015B</b>	ug/l	ug/l	ug/l	
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	11,000	50	110	1

**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	2	170740022A	03/18/2017 03:45	Amy Lehr	1
11180	Low Vol Ext (W) w/SG	SW-846 3510C	1	170740022A	03/16/2017 09:00	Nadia Bernabe	1

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

Sample Description: MW-8-W-170309 Grab Groundwater  
Facility# 307233 Job# 17155876 GRD  
2259 First St-Livermore T0600196622

LL Sample # WW 8878348  
LL Group # 1775506  
Account # 10904

Project Name: 307233

Collected: 03/09/2017 12:40 by ML Chevron  
L4310  
Submitted: 03/10/2017 10:30 6001 Bollinger Canyon Rd.  
Reported: 03/28/2017 15:02 San Ramon CA 94583

FSL08

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
<b>GC/MS Volatiles SW-846 8260B ug/1</b>						
10945	Benzene	71-43-2	18	0.5	1	1
10945	Ethylbenzene	100-41-4	0.5 J	0.5	1	1
10945	Toluene	108-88-3	2	0.5	1	1
10945	Xylene (Total)	1330-20-7	0.7 J	0.5	1	1
<b>GC Volatiles SW-846 8015B ug/1</b>						
01728	TPH-GRO N. CA water C6-C12	n.a.	3,900	250	500	5
<b>GC Petroleum SW-846 8015B ug/1</b>						
<b>Hydrocarbons w/Si</b>						
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	1,000	50	110	1
Target analytes were detected in the method blank associated with the samples 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. The reverse surrogate, capric acid, is present at <1%.						

### 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
10945	BTEX 8260B Water	SW-846 8260B	1	F170796AA	03/21/2017 03:04	Hu Yang	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F170796AA	03/21/2017 03:04	Hu Yang	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	17075B53A	03/16/2017 19:41	Brett W Kenyon	5
01146	GC VOA Water Prep	SW-846 5030B	1	17075B53A	03/16/2017 19:41	Brett W Kenyon	5
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	170740021A	03/21/2017 03:17	Thomas C Wildermuth	1
11180	Low Vol Ext (W) w/SG	SW-846 3510C	1	170740021A	03/16/2017 09:00	Nadia Bernabe	1

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

Sample Description: MW-8-W-170309 Grab Groundwater  
Facility# 307233 Job# 17155876 GRD  
2259 First St-Livermore T0600196622

LL Sample # WW 8878349  
LL Group # 1775506  
Account # 10904

Project Name: 307233

Collected: 03/09/2017 12:40 by ML Chevron  
L4310  
Submitted: 03/10/2017 10:30 6001 Bollinger Canyon Rd.  
Reported: 03/28/2017 15:02 San Ramon CA 94583

FSL-8

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
<b>GC Petroleum Hydrocarbons w/Si</b>						
	SW-846	8015B	ug/l	ug/l	ug/l	
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	1,900	50	110	1
Target analytes were detected in the method blank associated with the samples as noted on the QC Summary. Sufficient sample was not available to repeat the analysis.						

### 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	170740022A	03/18/2017 01:58	Amy Lehr	1
11180	Low Vol Ext (W) w/SG	SW-846 3510C	1	170740022A	03/16/2017 09:00	Nadia Bernabe	1

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

**Sample Description:** MW-9-W-170309 Grab Groundwater  
**Facility#** 307233 **Job#** 17155876 GRD  
 2259 First St-Livermore T0600196622

**LL Sample #** WW 8878350  
**LL Group #** 1775506  
**Account #** 10904

**Project Name:** 307233

Collected: 03/09/2017 09:35 by ML Chevron  
 L4310  
 Submitted: 03/10/2017 10:30 6001 Bollinger Canyon Rd.  
 Reported: 03/28/2017 15:02 San Ramon CA 94583

FSL09

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
<b>GC/MS Volatiles</b> SW-846 8260B ug/l						
10945	Benzene	71-43-2	N.D.	0.5	1	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1	1
10945	Toluene	108-88-3	N.D.	0.5	1	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1	1
<b>GC Volatiles</b> SW-846 8015B ug/l						
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	100	1
<b>GC Petroleum Hydrocarbons w/Si</b> SW-846 8015B ug/l						
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	N.D.	50	100	1
<p>The recovery for the sample surrogate(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.            The reverse surrogate, capric acid, is present at &lt;1%.</p>						

**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
10945	BTEX 8260B Water	SW-846 8260B	1	F170802AA	03/21/2017 08:38	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F170802AA	03/21/2017 08:38	Anita M Dale	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	17075B53A	03/16/2017 16:26	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	17075B53A	03/16/2017 16:26	Brett W Kenyon	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	170740021A	03/21/2017 03:39	Thomas C Wildermuth	1
11180	Low Vol Ext (W) w/SG	SW-846 3510C	1	170740021A	03/16/2017 09:00	Nadia Bernabe	1

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

Sample Description: MW-9-W-170309 Grab Groundwater  
Facility# 307233 Job# 17155876 GRD  
2259 First St-Livermore T0600196622

LL Sample # WW 8878351  
LL Group # 1775506  
Account # 10904

Project Name: 307233

Collected: 03/09/2017 09:35 by ML Chevron  
L4310  
Submitted: 03/10/2017 10:30 6001 Bollinger Canyon Rd.  
Reported: 03/28/2017 15:02 San Ramon CA 94583

FSL-9

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
	<b>GC Petroleum Hydrocarbons w/Si</b>	<b>SW-846 8015B</b>	ug/l	ug/l	ug/l	
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	N.D.	50	100	1

### 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	2	170740022A	03/18/2017 02:19	Amy Lehr	1
11180	Low Vol Ext (W) w/SG	SW-846 3510C	1	170740022A	03/16/2017 09:00	Nadia Bernabe	1

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



Sample Description: MW-10-W-170309 Grab Groundwater  
Facility# 307233 Job# 17155876 GRD  
2259 First St-Livermore T0600196622

LL Sample # WW 8878352  
LL Group # 1775506  
Account # 10904

Project Name: 307233

Collected: 03/09/2017 11:00 by ML Chevron  
L4310  
Submitted: 03/10/2017 10:30 6001 Bollinger Canyon Rd.  
Reported: 03/28/2017 15:02 San Ramon CA 94583

FSL10

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
<b>GC/MS Volatiles SW-846 8260B ug/l</b>						
10945	Benzene	71-43-2	N.D.	3	5	5
10945	Ethylbenzene	100-41-4	N.D.	3	5	5
10945	Toluene	108-88-3	N.D.	3	5	5
10945	Xylene (Total)	1330-20-7	N.D.	3	5	5
<b>GC Volatiles SW-846 8015B ug/l</b>						
01728	TPH-GRO N. CA water C6-C12	n.a.	2,700	50	100	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.	110 J	50	110	1
Target analytes were detected in the method blank associated with the samples 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. The reverse surrogate, capric acid, is present at <1%.						

### 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
10945	BTEX 8260B Water	SW-846 8260B	1	F170801AA	03/21/2017 09:56	Anita M Dale	5
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F170801AA	03/21/2017 09:56	Anita M Dale	5
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	17079B20A	03/20/2017 14:11	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	17079B20A	03/20/2017 14:11	Brett W Kenyon	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	170740021A	03/21/2017 04:00	Thomas C Wildermuth	1
11180	Low Vol Ext (W) w/SG	SW-846 3510C	1	170740021A	03/16/2017 09:00	Nadia Bernabe	1

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

Sample Description: MW-10-W-170309 Grab Groundwater  
 Facility# 307233 Job# 17155876 GRD  
 2259 First St-Livermore T0600196622

LL Sample # WW 8878353  
 LL Group # 1775506  
 Account # 10904

Project Name: 307233

Collected: 03/09/2017 11:00 by ML Chevron  
 L4310  
 Submitted: 03/10/2017 10:30 6001 Bollinger Canyon Rd.  
 Reported: 03/28/2017 15:02 San Ramon CA 94583

FS-10

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
<b>GC Petroleum Hydrocarbons w/Si</b>						
	SW-846	8015B	ug/l	ug/l	ug/l	
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	330	50	110	1
Target analytes were detected in the method blank associated with the samples as noted on the QC Summary. Sufficient sample was not available to repeat the analysis.						

**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	170740022A	03/18/2017 02:40	Amy Lehr	1
11180	Low Vol Ext (W) w/SG	SW-846 3510C	1	170740022A	03/16/2017 09:00	Nadia Bernabe	1

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

Sample Description: MW-11-W-170309 Grab Groundwater  
Facility# 307233 Job# 17155876 GRD  
2259 First St-Livermore T0600196622

LL Sample # WW 8878354  
LL Group # 1775506  
Account # 10904

Project Name: 307233

Collected: 03/09/2017 11:45 by ML

Chevron

L4310

Submitted: 03/10/2017 10:30

6001 Bollinger Canyon Rd.

Reported: 03/28/2017 15:02

San Ramon CA 94583

FSL11

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
<b>GC/MS Volatiles</b>						
	<b>SW-846 8260B</b>		<b>ug/l</b>	<b>ug/l</b>	<b>ug/l</b>	
10945	Benzene	71-43-2	N.D.	0.5	1	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1	1
10945	Toluene	108-88-3	N.D.	0.5	1	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1	1
<b>GC Volatiles</b>						
	<b>SW-846 8015B</b>		<b>ug/l</b>	<b>ug/l</b>	<b>ug/l</b>	
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	100	1
<b>GC Petroleum Hydrocarbons w/Si</b>						
	<b>SW-846 8015B</b>		<b>ug/l</b>	<b>ug/l</b>	<b>ug/l</b>	
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	N.D.	50	110	1
	The reverse surrogate, capric acid, is present at <1%.					

### 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
10945	BTEX 8260B Water	SW-846 8260B	1	F170801AA	03/21/2017 08:51	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F170801AA	03/21/2017 08:51	Anita M Dale	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	17075B53A	03/16/2017 17:21	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	17075B53A	03/16/2017 17:21	Brett W Kenyon	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	170740021A	03/21/2017 04:22	Amy Lehr	1
11180	Low Vol Ext (W) w/SG	SW-846 3510C	1	170740021A	03/16/2017 09:00	Nadia Bernabe	1

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

Sample Description: MW-11-W-170309 Grab Groundwater  
Facility# 307233 Job# 17155876 GRD  
2259 First St-Livermore T0600196622

LL Sample # WW 8878355  
LL Group # 1775506  
Account # 10904

Project Name: 307233

Collected: 03/09/2017 11:45 by ML Chevron  
L4310  
Submitted: 03/10/2017 10:30 6001 Bollinger Canyon Rd.  
Reported: 03/28/2017 15:02 San Ramon CA 94583

FS-11

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
	GC Petroleum Hydrocarbons w/Si	SW-846 8015B	ug/l	ug/l	ug/l	
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	N.D.	50	110	1

### 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	2	170740022A	03/18/2017 03:02	Amy Lehr	1
11180	Low Vol Ext (W) w/SG	SW-846 3510C	1	170740022A	03/16/2017 09:00	Nadia Bernabe	1

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

**Sample Description:** MW-12-W-170309 Grab Groundwater  
**Facility#** 307233 **Job#** 17155876 GRD  
 2259 First St-Livermore T0600196622

**LL Sample #** WW 8878356  
**LL Group #** 1775506  
**Account #** 10904

**Project Name:** 307233

Collected: 03/09/2017 12:10 by ML Chevron  
 L4310  
 Submitted: 03/10/2017 10:30 6001 Bollinger Canyon Rd.  
 Reported: 03/28/2017 15:02 San Ramon CA 94583

FSL12

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
<b>GC/MS Volatiles</b> SW-846 8260B ug/l						
10945	Benzene	71-43-2	1	0.5	1	1
10945	Ethylbenzene	100-41-4	0.6 J	0.5	1	1
10945	Toluene	108-88-3	N.D.	0.5	1	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1	1
<b>GC Volatiles</b> SW-846 8015B ug/l						
01728	TPH-GRO N. CA water C6-C12	n.a.	2,100	50	100	1
<b>GC Petroleum Hydrocarbons w/Si</b> SW-846 8015B ug/l						
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	78 J	50	100	1
Target analytes were detected in the method blank associated with the samples as noted on the QC Summary. The recovery for the sample surrogate(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. The reverse surrogate, capric acid, is present at <1%.						

**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
10945	BTEX 8260B Water	SW-846 8260B	1	F170801AA	03/21/2017 10:18	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F170801AA	03/21/2017 10:18	Anita M Dale	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	17079B20A	03/20/2017 14:38	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	17079B20A	03/20/2017 14:38	Brett W Kenyon	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	170740021A	03/21/2017 04:44	Thomas C Wildermuth	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	170740021A	03/16/2017 09:00	Nadia Bernabe	1

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

Sample Description: MW-12-W-170309 Grab Groundwater  
Facility# 307233 Job# 17155876 GRD  
2259 First St-Livermore T0600196622

LL Sample # WW 8878357  
LL Group # 1775506  
Account # 10904

Project Name: 307233

Collected: 03/09/2017 12:10 by ML Chevron  
L4310  
Submitted: 03/10/2017 10:30 6001 Bollinger Canyon Rd.  
Reported: 03/28/2017 15:02 San Ramon CA 94583

FS-12

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
<b>GC Petroleum Hydrocarbons w/Si</b>						
	SW-846	8015B	ug/l	ug/l	ug/l	
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	430	50	100	1
Target analytes were detected in the method blank associated with the samples as noted on the QC Summary. Sufficient sample was not available to repeat the analysis.						

### 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	170740022A	03/18/2017 03:23	Amy Lehr	1
11180	Low Vol Ext (W) w/SG	SW-846 3510C	1	170740022A	03/16/2017 09:00	Nadia Bernabe	1

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

## Quality Control Summary

Client Name: Chevron  
Reported: 03/28/2017 15:02

Group Number: 1775506

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

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

### Method Blank

Analysis Name	Result	MDL**	LOQ
	ug/l	ug/l	ug/l
Batch number: F170795AA	Sample number(s): 8878333-8878334		
Benzene	N.D.	0.5	1
Ethylbenzene	N.D.	0.5	1
Toluene	N.D.	0.5	1
Xylene (Total)	N.D.	0.5	1
Batch number: F170796AA	Sample number(s): 8878336,8878338,8878340,8878342,8878344,8878346,8878348		
Benzene	N.D.	0.5	1
Ethylbenzene	N.D.	0.5	1
Toluene	N.D.	0.5	1
Xylene (Total)	N.D.	0.5	1
Batch number: F170801AA	Sample number(s): 8878352,8878354,8878356		
Benzene	N.D.	0.5	1
Ethylbenzene	N.D.	0.5	1
Toluene	N.D.	0.5	1
Xylene (Total)	N.D.	0.5	1
Batch number: F170802AA	Sample number(s): 8878350		
Benzene	N.D.	0.5	1
Ethylbenzene	N.D.	0.5	1
Toluene	N.D.	0.5	1
Xylene (Total)	N.D.	0.5	1
Batch number: 17075B20A	Sample number(s): 8878333-8878334,8878336		
TPH-GRO N. CA water C6-C12	N.D.	50	100
Batch number: 17075B53A	Sample number(s): 8878342,8878344,8878346,8878348,8878350,8878354		
TPH-GRO N. CA water C6-C12	N.D.	50	100
Batch number: 17079B20A	Sample number(s): 8878338,8878340,8878352,8878356		
TPH-GRO N. CA water C6-C12	N.D.	50	100
Batch number: 170740021A	Sample number(s): 8878334,8878336,8878338,8878340,8878342,8878344,8878346,8878348,8878350,8878352,8878354,8878356		
TPH-DRO CA C10-C28 w/ Si Gel	200	50	100
Batch number: 170740022A	Sample number(s): 8878335,8878337,8878339,8878341,8878343,8878345,8878347,8878349,8878351,8878353,8878355,8878357		
TPH-DRO CA C10-C28 w/ Si Gel	380	50	100

\*- Outside of specification

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

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

P##### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

## Quality Control Summary

Client Name: Chevron  
Reported: 03/28/2017 15:02

Group Number: 1775506

### LCS/LCSD

Analysis Name	LCS Spike Added ug/l	LCS Conc ug/l	LCSD Spike Added ug/l	LCSD Conc ug/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: F170795AA	Sample number(s): 8878333-8878334								
Benzene	20	18.47			92		78-120		
Ethylbenzene	20	18.12			91		78-120		
Toluene	20	18.27			91		80-120		
Xylene (Total)	60	54.28			90		80-120		
Batch number: F170796AA	Sample number(s): 8878336, 8878338, 8878340, 8878342, 8878344, 8878346, 8878348								
Benzene	20	18.9			95		78-120		
Ethylbenzene	20	19.18			96		78-120		
Toluene	20	19.35			97		80-120		
Xylene (Total)	60	58.51			98		80-120		
Batch number: F170801AA	Sample number(s): 8878352, 8878354, 8878356								
Benzene	20	19.47			97		78-120		
Ethylbenzene	20	19.12			96		78-120		
Toluene	20	19.33			97		80-120		
Xylene (Total)	60	57.82			96		80-120		
Batch number: F170802AA	Sample number(s): 8878350								
Benzene	20	19.35			97		78-120		
Ethylbenzene	20	19.32			97		78-120		
Toluene	20	19.9			100		80-120		
Xylene (Total)	60	59.72			100		80-120		
	ug/l	ug/l	ug/l	ug/l					
Batch number: 17075B20A	Sample number(s): 8878333-8878334, 8878336								
TPH-GRO N. CA water C6-C12	1100	1089.55	1100	1068.25	99	97	80-120	2	30
Batch number: 17075B53A	Sample number(s): 8878342, 8878344, 8878346, 8878348, 8878350, 8878354								
TPH-GRO N. CA water C6-C12	1100	1010.62	1100	1000.2	92	91	80-120	1	30
Batch number: 17079B20A	Sample number(s): 8878338, 8878340, 8878352, 8878356								
TPH-GRO N. CA water C6-C12	1100	1045.16	1100	1037.25	95	94	80-120	1	30
	ug/l	ug/l	ug/l	ug/l					
Batch number: 170740021A	Sample number(s): 8878334, 8878336, 8878338, 8878340, 8878342, 8878344, 8878346, 8878348, 8878350, 8878352, 8878354, 8878356								
TPH-DRO CA C10-C28 w/ Si Gel	1600	732.04	1600	900.13	46	56	40-105	21*	20
Batch number: 170740022A	Sample number(s): 8878335, 8878337, 8878339, 8878341, 8878343, 8878345, 8878347, 8878349, 8878351, 8878353, 8878355, 8878357								
TPH-DRO CA C10-C28 w/ Si Gel	1600	1285.13	1600	1444.15	80	90	40-105	12	20

\*- Outside of specification

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

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

P##### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.



## Quality Control Summary

Client Name: Chevron  
Reported: 03/28/2017 15:02

Group Number: 1775506

### MS/MSD

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

Analysis Name	Unspiked Conc ug/l	MS Spike Added ug/l	MS Conc ug/l	MSD Spike Added ug/l	MSD Conc ug/l	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Batch number: F170795AA	Sample number(s): 8878333-8878334 UNSPK: P879023									
Benzene	N.D.	20	19.84	20	20.04	99	100	78-120	1	30
Ethylbenzene	N.D.	20	19.71	20	19.76	99	99	78-120	0	30
Toluene	N.D.	20	19.73	20	20.16	99	101	80-120	2	30
Xylene (Total)	N.D.	60	59.06	60	59.45	98	99	80-120	1	30
Batch number: F170796AA	Sample number(s): 8878336,8878338,8878340,8878342,8878344,8878346,8878348 UNSPK: P880636									
Benzene	N.D.	20	19.55	20	19.76	98	99	78-120	1	30
Ethylbenzene	N.D.	20	19.33	20	19.75	97	99	78-120	2	30
Toluene	N.D.	20	19.86	20	20.18	99	101	80-120	2	30
Xylene (Total)	N.D.	60	58.98	60	59.72	98	100	80-120	1	30
Batch number: F170801AA	Sample number(s): 8878352,8878354,8878356 UNSPK: 8878354									
Benzene	N.D.	20	19.72	20	19.95	99	100	78-120	1	30
Ethylbenzene	N.D.	20	19.53	20	19.67	98	98	78-120	1	30
Toluene	N.D.	20	19.78	20	19.57	99	98	80-120	1	30
Xylene (Total)	N.D.	60	58.36	60	58.37	97	97	80-120	0	30
Batch number: F170802AA	Sample number(s): 8878350 UNSPK: 8878350									
Benzene	N.D.	20	19.96	20	19.69	100	98	78-120	1	30
Ethylbenzene	N.D.	20	20.17	20	19.79	101	99	78-120	2	30
Toluene	N.D.	20	20.66	20	20.25	103	101	80-120	2	30
Xylene (Total)	N.D.	60	62.28	60	61.2	104	102	80-120	2	30

### Surrogate Quality Control

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

Analysis Name: BTEX 8260B Water  
Batch number: F170795AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
8878333	100	99	100	94
8878334	100	100	99	95
Blank	99	100	100	96
LCS	99	102	99	97
MS	100	100	100	97
MSD	99	100	100	97
Limits:	80-116	77-113	80-113	78-113

Analysis Name: BTEX 8260B Water  
Batch number: F170796AA

\*- Outside of specification

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

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

P##### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

## Quality Control Summary

Client Name: Chevron  
Reported: 03/28/2017 15:02

Group Number: 1775506

### Surrogate Quality Control (continued)

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

Analysis Name: BTEX 8260B Water  
Batch number: F170796AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
8878336	100	100	99	95
8878338	101	101	100	95
8878340	100	99	99	97
8878342	100	100	100	94
8878344	97	98	99	100
8878346	99	97	101	98
8878348	98	96	100	113
Blank	100	100	100	96
LCS	99	101	101	99
MS	99	100	99	97
MSD	99	101	100	98
Limits:	80-116	77-113	80-113	78-113

Analysis Name: BTEX 8260B Water  
Batch number: F170801AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
8878352	99	99	99	95
8878354	101	102	98	93
8878356	98	98	99	113
Blank	100	101	99	95
LCS	100	102	99	97
MS	99	103	100	97
MSD	100	103	99	96
Limits:	80-116	77-113	80-113	78-113

Analysis Name: BTEX 8260B Water  
Batch number: F170802AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
8878350	101	101	99	94
Blank	100	98	99	93
LCS	98	100	100	98
MS	99	101	99	99
MSD	99	100	100	98
Limits:	80-116	77-113	80-113	78-113

Analysis Name: TPH-GRO N. CA water C6-C12  
Batch number: 17075B20A

	Trifluorotoluene-F
8878333	87
8878334	90
8878336	90
Blank	87

\*- Outside of specification

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

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(2) The unspiked result was more than four times the spike added.

P##### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

## Quality Control Summary

Client Name: Chevron  
Reported: 03/28/2017 15:02

Group Number: 1775506

### Surrogate Quality Control (continued)

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

Analysis Name: TPH-GRO N. CA water C6-C12  
Batch number: 17075B20A

Trifluorotoluene-F	
LCS	99
LCSD	99
Limits:	63-135

Analysis Name: TPH-GRO N. CA water C6-C12  
Batch number: 17075B53A

Trifluorotoluene-F	
8878342	97
8878344	113
8878346	95
8878348	102
8878350	102
8878354	98
Blank	102
LCS	103
LCSD	102
Limits:	63-135

Analysis Name: TPH-GRO N. CA water C6-C12  
Batch number: 17079B20A

Trifluorotoluene-F	
8878338	83
8878340	96
8878352	118
8878356	131
Blank	87
LCS	96
LCSD	93
Limits:	63-135

Analysis Name: TPH-DRO CA C10-C28 w/ Si Gel  
Batch number: 170740021A

Orthoterphenyl	
8878334	50
8878336	58
8878338	46
8878340	54
8878342	50
8878344	58
8878346	78
8878348	60
8878350	40*

\*- Outside of specification

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

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

P##### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

## Quality Control Summary

Client Name: Chevron  
Reported: 03/28/2017 15:02

Group Number: 1775506

### Surrogate Quality Control (continued)

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

Analysis Name: TPH-DRO CA C10-C28 w/ Si Gel  
Batch number: 170740021A

	Orthoterphenyl
8878352	44
8878354	52
8878356	37*
Blank	61
LCS	57
LCSD	70

Limits: 42-126

Analysis Name: TPH-DRO CA C10-C28 w/ Si Gel  
Batch number: 170740022A

	Orthoterphenyl
8878335	85
8878337	93
8878339	75
8878341	96
8878343	95
8878345	96
8878347	109
8878349	93
8878351	72
8878353	70
8878355	78
8878357	69
Blank	100
LCS	94
LCSD	107

Limits: 42-126

\*- Outside of specification

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

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

P##### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

# Chevron California Region Analysis Request/Chain of Custody



**Lancaster Laboratories Environmental**

*504*

Acct. # *10904*

For Eurofins Lancaster Laboratories Environmental use only  
 Group # *1775506* Sample # *8878333-57*  
 Instructions on reverse side correspond with circled numbers.

*030917-03*

*1092*

Client Information				Matrix			Analyses Requested													
Facility # <b>SS#307233-OML G-R#17155876</b> WBS Global ID# <b>T0600196622</b>				<input type="checkbox"/> Sediment  <input type="checkbox"/> Potable  <input type="checkbox"/> NPDES  <input type="checkbox"/> Air	<input checked="" type="checkbox"/> Ground  <input type="checkbox"/> Surface	<input type="checkbox"/> Oil	Total Number of Containers BTEX + <del>8021</del> 8021 <input type="checkbox"/> 8260 <input checked="" type="checkbox"/> TPH-GRO 8015 <input type="checkbox"/> 8260 <input type="checkbox"/> TPH-DRO 8015 without Silica Gel Cleanup <input type="checkbox"/> TPH-DRO 8015 with Silica Gel Cleanup <input checked="" type="checkbox"/> <i>Calicut</i>	8260 Full Scan	Oxygenates	Total Lead Method	Dissolved Lead Method	TPH-DRO w/sgc	SCR #: _____	<input type="checkbox"/> Results in Dry Weight <input type="checkbox"/> J value reporting needed <input type="checkbox"/> Must meet lowest detection limits possible for 8260 compounds <input type="checkbox"/> 8021 MTBE Confirmation <input type="checkbox"/> Confirm highest hit by 8260 <input type="checkbox"/> Confirm all hits by 8260 <input type="checkbox"/> Run _____ oxy's on highest hit <input type="checkbox"/> Run _____ oxy's on all hits						
Site Address <b>2259 FIRST STREET, LIVERMORE, CA</b>																				
Chevron PM <b>CM GHDSB</b>		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>MIKE L. FRANK T.</b>																				
Sample Identification	Soil Depth	Collected		Grab	Composite	Soil	Water	Oil	Total Number of Containers	BTEX + <del>8021</del> 8021	TPH-GRO 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	TPH-DRO w/sgc	Remarks	
<i>QA</i>		<i>170309</i>		<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		<i>8</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>									Please report DRO w/sgc using 10 grams of silica and also report 1 gram shake results
<i>MW-1</i>			<i>1012</i>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		<i>8</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>									
<i>MW-2</i>			<i>0936</i>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		<i>8</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>									
<i>MW-3</i>			<i>1030</i>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		<i>8</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>									
<i>MW-4</i>			<i>1120</i>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		<i>8</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>									
<i>MW-5</i>			<i>0755</i>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		<i>8</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>									
<i>MW-6</i>			<i>0845</i>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		<i>8</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>									
<i>MW-7</i>			<i>0845</i>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		<i>8</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>									
<i>MW-8</i>			<i>1240</i>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		<i>8</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>									
<i>MW-9</i>			<i>0935</i>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		<i>8</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>									

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

Standard 5 day      4 day

72 hour      48 hour      24 hour

**Data Package (circle if required)**      **EDF/EDD**

Type I - Full      Type VI (Raw Data)

**EDD (circle if required)**

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

Relinquished by <i>[Signature]</i>	Date <i>17.3.9</i>	Time	Received by <i>A. Silva</i>	Date <i>03 MAR 17</i>	Time <i>1525</i>
Relinquished by <i>A. Silva</i>	Date <i>09 MAR 17</i>	Time <i>1630</i>	Received by <i>FX</i>	Date	Time
Relinquished by Commercial Carrier:			Received by <i>[Signature]</i>	Date <i>3/10/17</i>	Time <i>1030</i>
UPS _____ FedEx _____ Other _____			Temperature Upon Receipt <i>0.4-0.9°C</i>		
			Custody Seals Intact? <input checked="" type="radio"/> Yes <input type="radio"/> No		

# Chevron California Region Analysis Request/Chain of Custody



Lancaster Laboratories  
Environmental

Acct. # 10904 For Eurofins Lancaster Laboratories Environmental use only  
Group # 1775506 Sample # 8878333-57  
Instructions on reverse side correspond with circled numbers.

20 ft

030917-03

Client Information				Matrix			Analyses Requested																	
Facility #		WBS		<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 <input type="checkbox"/> Oil	Total Number of Containers BTEX + <del>8021</del> 8021 <input type="checkbox"/> 8260 <input checked="" type="checkbox"/> TPH-GRO 8015 <input checked="" type="checkbox"/> 8260 <input type="checkbox"/> TPH-DRO 8015 without Silica Gel Cleanup <input type="checkbox"/> TPH-DRO 8015 with Silica Gel Cleanup <input checked="" type="checkbox"/> <i>Coltman</i>	8260 Full Scan Oxygenates Total Lead Method Dissolved Lead Method	Facility #		G-R#		Global ID#		8260		8260		8260		8260		8260		8260	
Site Address		Chevron PM					Lead Consultant		8260		8260		8260		8260		8260		8260		8260		8260	
2259 FIRST STREET, LIVERMORE, CA		CM					Silva		8260		8260		8260		8260		8260		8260		8260		8260	
Consultant/Office		Consultant Project Mgr.					Composite		8260		8260		8260		8260		8260		8260		8260		8260	
Getter-Ryan Inc., 6805 Sierra Court, Suite G, Dublin, CA 94568		Deanna L. Harding, deanna@grinc.com					Soil		8260		8260		8260		8260		8260		8260		8260		8260	
Consultant Phone #		Sampler		Soil		Water		Oil		TPH-DRO 8015 without Silica Gel Cleanup		TPH-DRO 8015 with Silica Gel Cleanup		8260 Full Scan		Oxygenates		Total Lead		Dissolved Lead				
(925) 551-7444 x180		Mike L. Frank T		Soil		Water		Oil		TPH-DRO 8015 without Silica Gel Cleanup		TPH-DRO 8015 with Silica Gel Cleanup		8260 Full Scan		Oxygenates		Total Lead		Dissolved Lead				
Sample Identification		Soil Depth		Collected		Grab		Composite		TPH-DRO 8015 without Silica Gel Cleanup		TPH-DRO 8015 with Silica Gel Cleanup		8260 Full Scan		Oxygenates		Total Lead		Dissolved Lead				
				Date		Time				TPH-DRO 8015 without Silica Gel Cleanup		TPH-DRO 8015 with Silica Gel Cleanup		8260 Full Scan		Oxygenates		Total Lead		Dissolved Lead				
MW-10				170309		1100		X		X		X		X		X		X		X				
MW-11				1145		X		X		X		X		X		X		X		X				
MW-12				1210		X		X		X		X		X		X		X		X				

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

**Remarks**

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

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

Standard    5 day    4 day

72 hour    48 hour    24 hour

**Data Package** (circle if required)    **EDF/EDD**

Type I - Full    Type VI (Raw Data)

**EDD** (circle if required)

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

Relinquished by	Date	Time	Received by	Date	Time
<i>J. Tu</i>	17.3.9		<i>A. Silva</i>	03 MAR 17	1525
Relinquished by	Date	Time	Received by	Date	Time
<i>C. Silva</i>	09 MAR 17	1630	<i>FX</i>		
Relinquished by Commercial Carrier:	Date	Time	Received by	Date	Time
UPS _____ FedEx _____ Other _____			<i>FX</i>	3/10/17	1030
Temperature Upon Receipt <u>0.4 - 0.9 °C</u>			Custody Seals Intact? <input checked="" type="radio"/> Yes <input type="radio"/> No		



Client: Chevron

**Delivery and Receipt Information**

Delivery Method:	<u>BASC</u>	Arrival Timestamp:	<u>03/10/2017 10:30</u>
Number of Packages:	<u>2</u>	Number of Projects:	<u>1</u>
State/Province of Origin:	<u>CA</u>		

**Arrival Condition Summary**

Shipping Container Sealed:	Yes	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	Yes	Sample Date/Times match COC:	Yes
Custody Seal Intact:	Yes	VOA Vial Headspace ≥ 6mm:	No
Samples Chilled:	Yes	Total Trip Blank Qty:	2
Paperwork Enclosed:	Yes	Trip Blank Type:	HCl
Samples Intact:	Yes	Air Quality Samples Present:	No
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

*Unpacked by Tanya Brasch (24906) at 14:27 on 03/10/2017*

**Samples Chilled Details**

Thermometer Types: DT = Digital (Temp. Bottle) IR = Infrared (Surface Temp) All Temperatures in °C.

Cooler #	Thermometer ID	Corrected Temp	Therm. Type	Ice Type	Ice Present?	Ice Container	Elevated Temp?
1	DT131	0.4	DT	Wet	Y	Bagged	N
2	DT131	0.9	DT	Wet	Y	Bagged	N

# Explanation of Symbols and Abbreviations

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

<b>BMQL</b>	Below Minimum Quantitation Level	<b>mg</b>	milligram(s)
<b>C</b>	degrees Celsius	<b>mL</b>	milliliter(s)
<b>cfu</b>	colony forming units	<b>MPN</b>	Most Probable Number
<b>CP Units</b>	cobalt-chloroplatinate units	<b>N.D.</b>	none detected
<b>F</b>	degrees Fahrenheit	<b>ng</b>	nanogram(s)
<b>g</b>	gram(s)	<b>NTU</b>	nephelometric turbidity units
<b>IU</b>	International Units	<b>pg/L</b>	picogram/liter
<b>kg</b>	kilogram(s)	<b>RL</b>	Reporting Limit
<b>L</b>	liter(s)	<b>TNTC</b>	Too Numerous To Count
<b>lb.</b>	pound(s)	<b>µg</b>	microgram(s)
<b>m3</b>	cubic meter(s)	<b>µL</b>	microliter(s)
<b>meq</b>	milliequivalents	<b>umhos/cm</b>	micromhos/cm
<b>&lt;</b>	less than		
<b>&gt;</b>	greater than		
<b>ppm</b>	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.		
<b>ppb</b>	parts per billion		
<b>Dry weight basis</b>	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

## Laboratory Data Qualifiers:

- C - Result confirmed by reanalysis
- E - Concentration exceeds the calibration range
- J (or G, I, X) - estimated value  $\geq$  the Method Detection Limit (MDL or DL) and  $<$  the Limit of Quantitation (LOQ or RL)
- P - Concentration difference between the primary and confirmation column  $>40\%$ . The lower result is reported.
- U - Analyte was not detected at the value indicated
- V - Concentration difference between the primary and confirmation column  $>100\%$ . The reporting limit is raised due to this disparity and evident interference...
- W - The dissolved oxygen uptake for the unseeded blank is greater than 0.20 mg/L.

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods. Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

**Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) 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.

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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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