



Carryl MacLeod
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Marketing Business Unit

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

RECEIVED

By Alameda County Environmental Health 8:49 am, Jan 25, 2017

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

I accept the Second Semi-Annual 2016 Groundwater Monitoring and Sampling Report.

I agree with the conclusions and recommendations presented in this document. The information included is accurate to the best of my knowledge, and appears to meet local agency and Regional Board guidelines. This Second Semi-Annual 2016 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,

A handwritten signature in cursive script that reads "Carryl MacLeod".

Carryl MacLeod
Project Manager

Attachment: Second Semi-Annual 2016 Groundwater Monitoring and Sampling Report



January 25, 2017

Reference No. 312264

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

**Re: Second Semi-Annual 2016 - Groundwater Monitoring
and Sampling Report
Former Texaco Station (Chevron 307233)
2259 First Street
Livermore, California
ACEHS Case RO0002908**

Dear Ms. Soo:

1. Introduction

GHD is submitting this *Second Semi-Annual 2016 Groundwater Monitoring and Sampling Report* for the site referenced above (Figure 1) on behalf of Chevron Environmental Management Company (Chevron). Groundwater monitoring and sampling was performed by Gettler-Ryan Inc. (G-R) of Dublin, California and their *Groundwater Monitoring and Sampling Data Package* is included as Attachment A. Current and historical groundwater monitoring and sampling data are presented in Table 1 and current data are shown on Figures 2 and 3. Eurofins Lancaster Laboratories Environmental, LLCs' *Analytical Results* report is included as Attachment B.

2. Results of Second Semi-Annual 2016 Event

On November 10, 2016, G-R gauged and sampled the site wells per the established schedule, with the exception of wells MW-7 and MW-11, due to insufficient water in the wells.

Results of the current monitoring event indicate the following:

Shallow Groundwater Flow Direction	West-Southwest
Shallow Hydraulic Gradient	0.2
Deep Groundwater Flow Direction	West-Northwest
Deep Hydraulic Gradient	0.01
Approximate Depth to Water - Shallow	27.03 to 36.18 feet below grade
Approximate Depth to Water - Deep	35.83 to 37.43 feet below grade



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

Table A: Groundwater Analytical Data – November 10, 2016

Well ID	TPHd	TPHg	Benzene	Toluene	Ethylbenzene	Total Xylenes
ESLs	100	100	1	40	13	20
MW-1	<110* / <110**	<100	<1	<1	<1	<1
MW-2	86 J* / <100**	<100	<1	<1	<1	<1
MW-3	160* / <110**	<100	<1	<1	<1	<1
MW-4	330*	2,400	3	0.7 J	0.9 J	2
MW-5	<100* / <100**	<100	<1	<1	<1	<1
MW-6	240* / <100**	1,200	3	<1	<1	<1
MW-7	Insufficient Water					
MW-8	35,000*/22,000**	11,000	0.6 J	0.6 J	0.6 J	0.8 J
MW-9	<100* / <100**	<100	<1	<1	<1	<1
MW-10	28,000*/21,000**	3,900	1	1	3	5
MW-11	Insufficient Water					
MW-12	480*/210**	2,400	0.7 J	<1	0.7 J	<1

Units in micrograms per liter (µg/L)

Shallow-zone monitoring wells are MW-7 through MW-12; deep-zone monitoring wells are MW-1 through MW-6

ESL Environmental Screening Levels, San Francisco Bay Regional Water Quality Control Board, Tier 1, February 2016

NA Not Analyzed

* Analyzed with silica gel cleanup

** Analyzed with 10-gram column silica gel cleanup with capric acid reverse surrogate

J Estimated Value

BOLD Concentrations exceed ESLs

3. 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.

4. Anticipated Future Activities

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

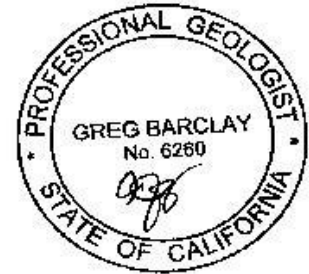
Please contact Brian Silva at (916) 889-8908 if you have any questions or require additional information.

Sincerely,

GHD

Brian Silva

Greg Barclay, PG 6260



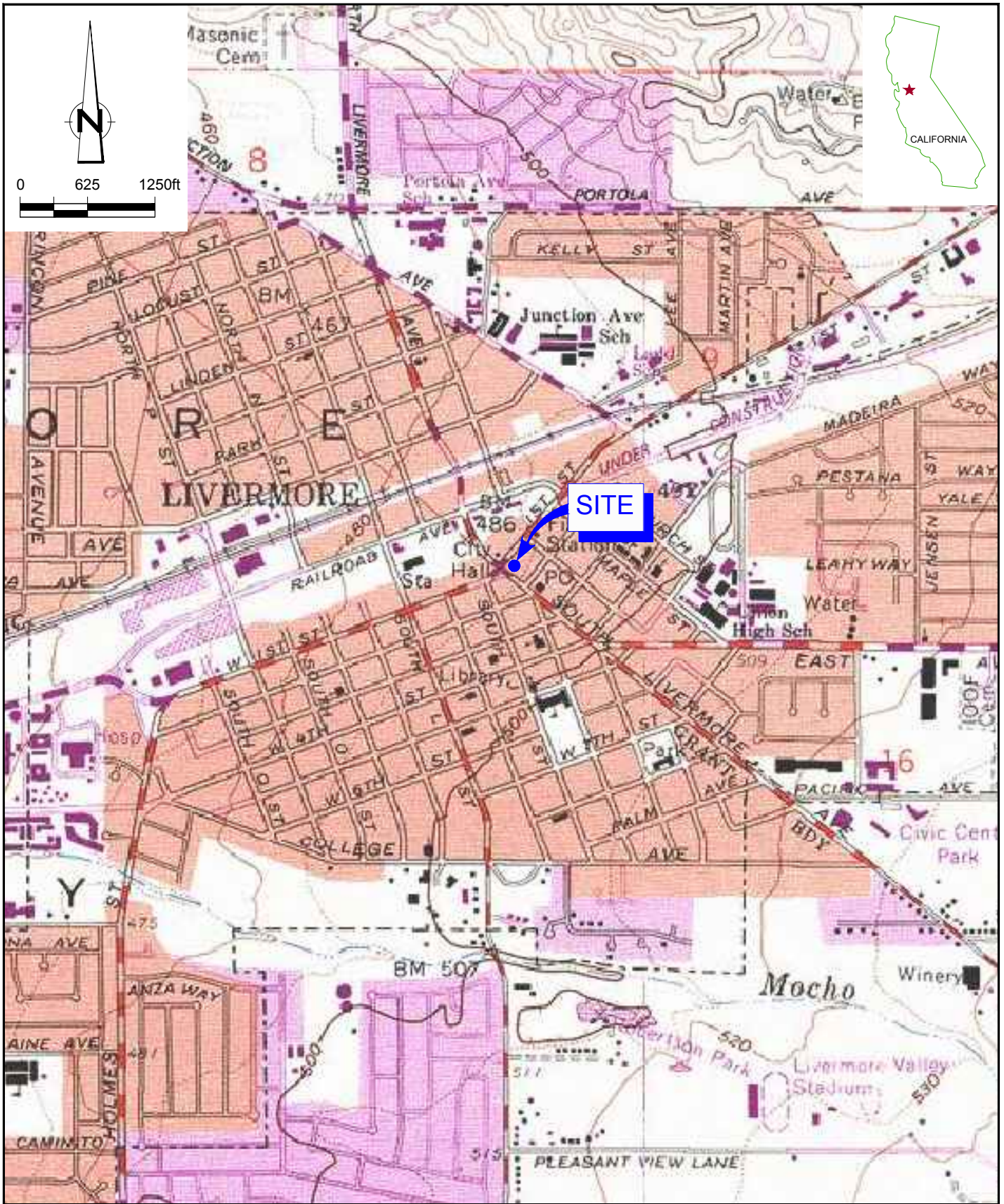
BS/cw/42

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: TOPO! MAPS

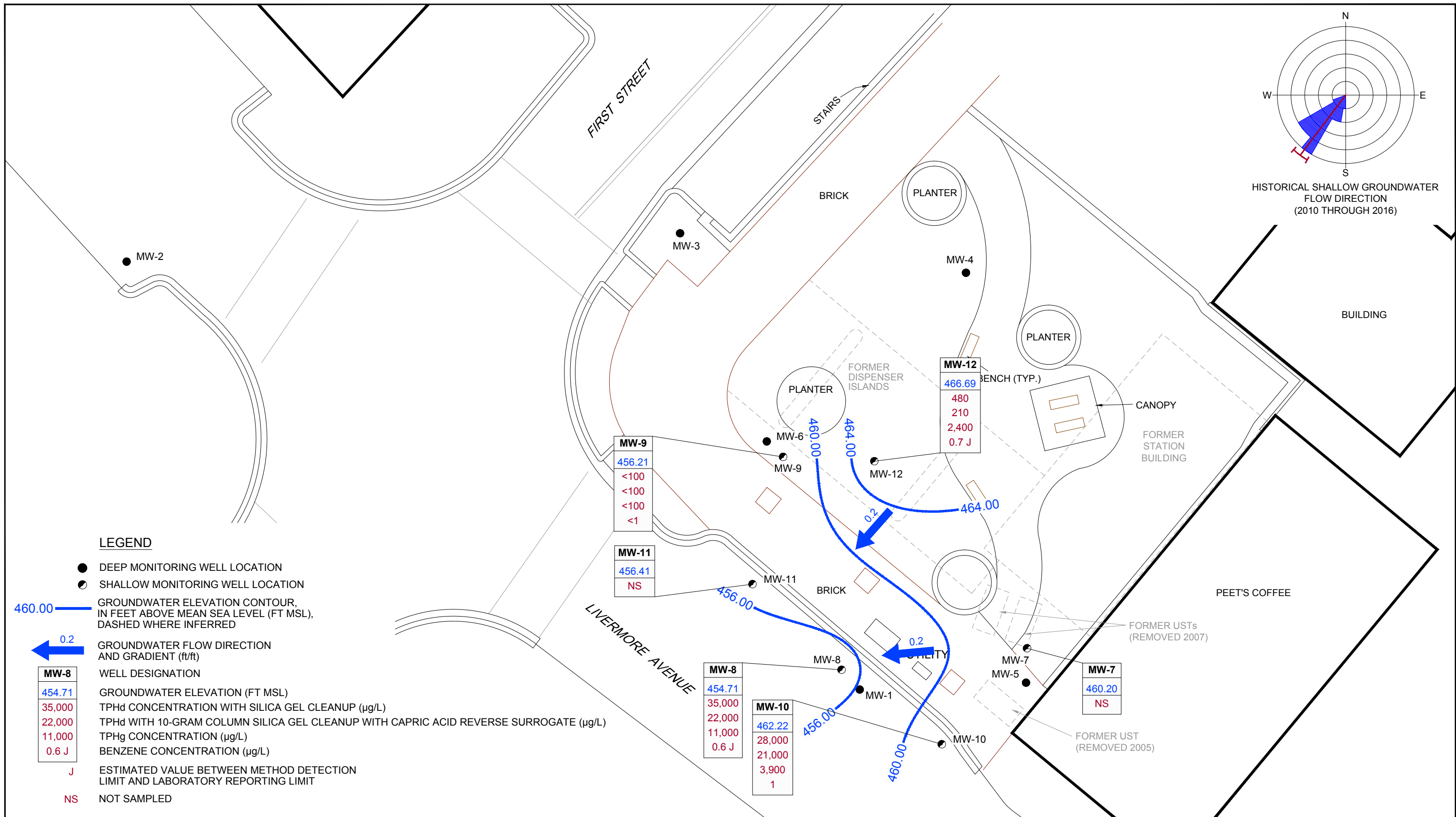


FORMER TEXACO STATION (CHEVRON STATION 307233)
 2259 FIRST STREET
 LIVERMORE, CALIFORNIA

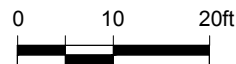
312264-95
 Dec 19, 2016

VICINITY MAP

FIGURE 1



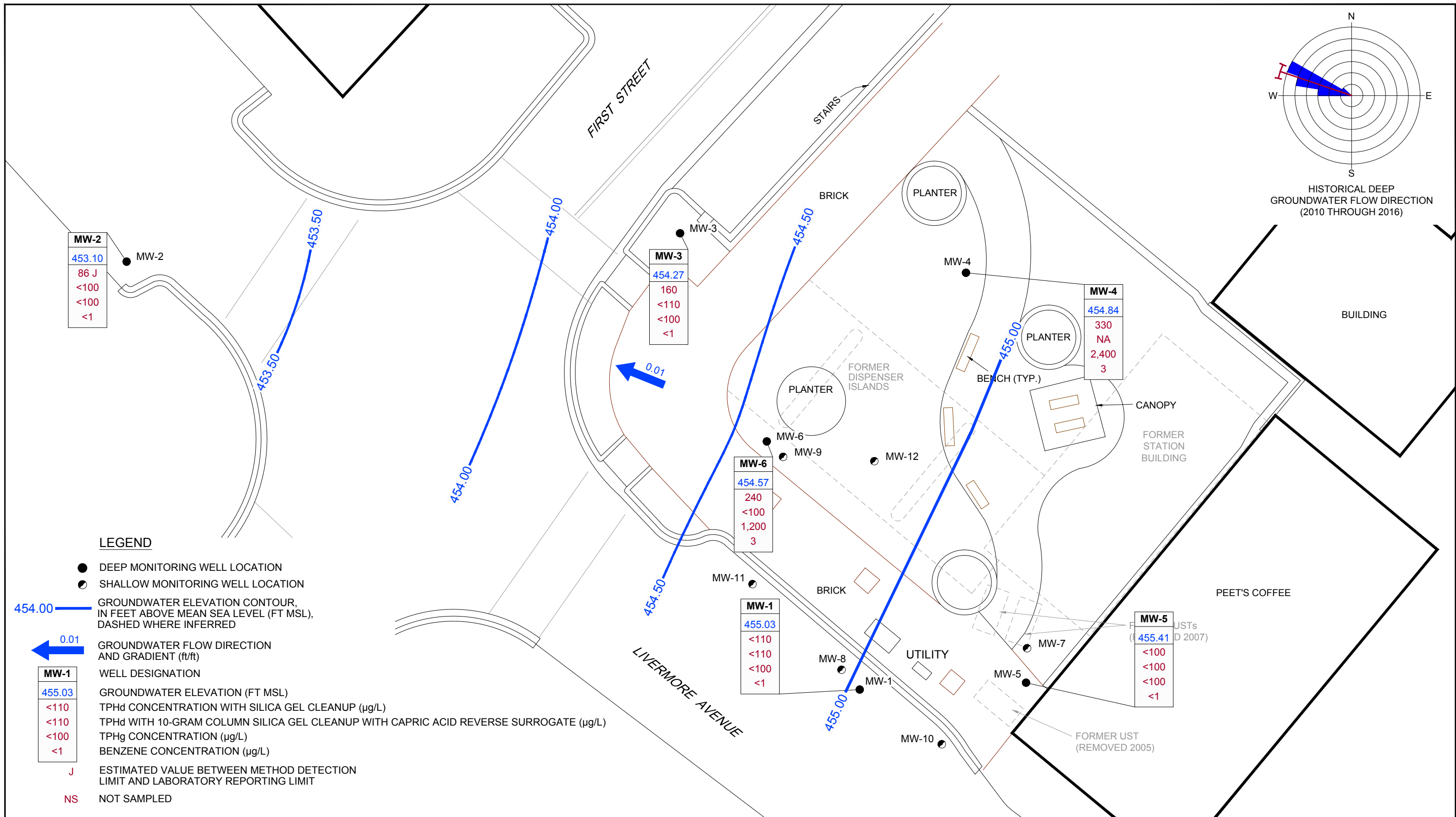
BASE MAP MODIFIED BY DRAWING FROM MORROW SURVEYING.



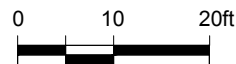
FORMER TEXACO STATION (CHEVRON STATION 307233)
 2259 FIRST STREET
 LIVERMORE, CALIFORNIA
 SHALLOW-ZONE GROUNDWATER ELEVATION CONTOUR AND
 HYDROCARBON CONCENTRATION MAP - NOVEMBER 10, 2016

312264-95
 Jan 19, 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 - NOVEMBER 10, 2016

312264-95
 Jan 19, 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 ¹	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 ⁷	490.86	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-1	03/12/2012 ⁴	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 ⁷	490.86	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-1	09/10/2012 ⁴	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 ⁷	490.86	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-1	03/04/2013 ⁴	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 ⁷	490.86	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-1	09/09/2013 ⁴	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 ⁷	490.86	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-1	03/27/2014 ⁴	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 ⁷	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 ⁴	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 ⁴	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 ⁴	490.86	41.22	449.64	0.00	0.00	<50	<50 / <50	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-
MW-1	11/10/2016⁴	490.86	35.83	455.03	0.00	0.00	-	<110 / <110	<100	<1	<1	<1	<1	-	-	-	-	-	-	-	-	-	-
MW-2	05/25/2010 ¹	489.43	31.18	458.25	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-2	05/27/2010	489.43	31.11	458.32	0.00	0.00	<50	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-
MW-2	09/13/2010	489.43	36.96	452.47	0.00	0.00	<50	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-
MW-2	12/20/2010	489.43	32.62	456.81	0.00	0.00	-	52	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-

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	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 ⁷	489.43	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-2	03/12/2012 ⁴	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 ⁷	489.43	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-2	09/10/2012 ⁴	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 ⁷	489.43	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-2	03/04/2013 ⁴	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 ⁷	489.43	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-2	09/09/2013 ⁴	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 ⁷	489.43	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-2	03/27/2014 ⁴	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 ⁷	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 ⁴	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 ⁴	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 ⁴	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	11/10/2016⁴	489.43	36.33	453.10	0.00	0.00	-	86 J / <100	<100	<1	<1	<1	<1	-	-	-	-	-	-	-	-	-
MW-3	05/25/2010 ¹	490.38	30.17	460.21	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-3	05/27/2010	490.38	30.98	459.40	0.00	0.00	610	-	2,100	2	<0.5	<0.5	0.9	-	-	-	-	-	-	-	-	-
MW-3	09/13/2010	490.38	36.77	453.61	0.00	0.00	<50	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
MW-3	12/20/2010	490.38	32.41	457.97	0.00	0.00	-	97	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
MW-3	03/07/2011	490.38	28.06	462.32	0.00	0.00	-	<50	<50	<0.5	<0.5	<0.5	<0.5	4,300	70,400	-	53	-	-	-	-	-
MW-3	06/06/2011	490.38	27.28	463.10	0.00	0.00	-	110	<50	<0.5	<0.5	<0.5	<0.5	3,900	66,400	-	17	-	-	-	-	-
MW-3	09/19/2011	490.38	31.21	459.17	0.00	0.00	-	170/230	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
MW-3	03/09/2012 ⁷	490.38	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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-3	03/12/2012 ⁴	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 ⁷	490.38	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-3	09/10/2012 ⁴	490.38	41.02	449.36	0.00	0.00	-	<50 / <50	<50	<5	<5	<5	<5	-	-	-	-	-	-	-	-	-	-
MW-3	12/10/2012 ⁷	490.38	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-3	03/04/2013 ⁴	490.38	30.58	459.80	0.00	0.00	-	360 / 240	1,500	150	3	2	3	-	-	-	-	-	-	-	-	-	-
MW-3	06/03/2013 ⁷	490.38	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-3	09/09/2013 ⁴	490.38	34.38	456.00	0.00	0.00	-	250 / 170	910	50	1	0.7	2	-	-	-	-	-	-	-	-	-	-
MW-3	12/09/2013 ⁷	490.38	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-3	03/27/2014 ⁴	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 ⁷	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 ⁴	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 ⁴	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 ⁴	490.38	41.48	448.90	0.00	0.00	700	260 / 170	770	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-
MW-3	11/10/2016⁴	490.38	36.11	454.27	0.00	0.00	-	160 / <110	<100	<1	<1	<1	<1	-	-	-	-	-	-	-	-	-	-
MW-4	05/25/2010 ¹	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 ⁷	492.27	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-4	03/12/2012 ⁴	492.27	42.99	449.28	0.00	0.00	-	130/<50	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-
MW-4	06/04/2012 ⁷	492.27	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-4	09/10/2012 ⁴	492.27	42.30	449.97	0.00	0.00	-	580 / 310	2,400	2	0.7	2	2	-	-	-	-	-	-	-	-	-	-
MW-4	12/10/2012 ⁷	492.27	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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	03/04/2013 ⁴	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 ⁷	492.27	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-4	09/09/2013 ⁴	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 ⁷	492.27	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-4	03/27/2014 ⁴	492.27	37.05	455.22	0.00	0.00	-	750 / 530	3,000	2	0.8	4	3	-	-	-	-	-	-	-	-	-	-
MW-4	06/19/2014 ⁷	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 ⁴	492.27	42.63	449.64	0.00	0.00	-	950 / 510	3,000	4	2	9	6	-	-	-	-	-	-	-	-	-	-
MW-4	09/24/2015 ⁴	492.27	54.30	437.97	0.00	0.00	-	900 / 490	3,500	9	3	8	8	-	-	-	-	-	-	-	-	-	-
MW-4	03/10/2016 ⁴	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	-	-	-	-	-	-	-	-	-	-
MW-5	05/25/2010 ¹	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 ²	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 ⁷	491.99	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-5	03/12/2012 ⁴	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 ⁷	491.99	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-5	09/10/2012 ⁴	491.99	41.39	450.60	0.00	0.00	-	<50 / <50	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-
MW-5	12/10/2012 ⁷	491.99	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-5	03/04/2013 ⁴	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 ⁷	491.99	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-5	09/09/2013 ⁴	491.99	34.79	457.20	0.00	0.00	-	<50 / <50	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-

Table 1
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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	12/09/2013 ⁷	491.99	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-5	03/27/2014 ⁴	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 ⁷	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 ⁴	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 ⁴	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 ⁴	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	11/10/2016⁴	491.99	36.58	455.41	0.00	0.00	-	<100 / <100	<100	<1	<1	<1	<1	-	-	-	-	-	-	-	-	-
MW-6	05/25/2010 ¹	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 ⁷	491.52	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-6	03/12/2012 ⁴	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 ⁷	491.52	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-6	09/10/2012 ⁴	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 ⁷	491.52	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-6	03/04/2013 ⁴	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 ⁷	491.52	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-6	09/09/2013 ⁴	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 ⁷	491.52	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-6	03/27/2014 ⁴	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 ⁷	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	-	-	-	-	-	-	-	-	-

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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-6	03/24/2015 ⁴	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 ⁴	491.52	53.84	437.68	0.00	0.00	-	440 / 240	1,800	18	2	2	6	-	-	-	-	-	-	-	-	-
MW-6	03/10/2016 ⁴	491.52	42.32	449.20	0.00	0.00	330	480 / 300	1,300	3	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
MW-6	11/10/2016⁴	491.52	36.95	454.57	0.00	0.00	-	240 / <100	1,200	3	<1	<1	<1	-	-	-	-	-	-	-	-	-
MW-7	05/25/2010 ¹	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 ²	492.29	26.71	465.58	0.00	0.00	-	-	19,000	1,800	47	490	2,200	-	-	-	-	-	-	-	-	-
MW-7	09/19/2011 ³	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 ⁵	492.29	32.38	459.91	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-7	06/04/2012 ^{5,6}	492.29	32.38	459.91	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-7	09/10/2012 ^{5,9}	492.29	32.62	459.67	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-7	12/10/2012 ^{4,9}	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 ^{4,9}	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 ⁹	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 ^{5,9}	492.29	32.38	459.91	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-7	12/09/2013 ^{4,8,9}	492.29	31.78	460.51	0.00	0.00	-	94,000 / 82,000	17,000	2,600	22	400	220	-	-	-	-	-	-	-	-	-
MW-7	03/27/2014 ^{4,8,9}	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 ^{5,9}	492.29	32.40	459.89	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-7	09/11/2014 ^{5,9}	492.29	32.40	459.89	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-7	03/24/2015 ^{3,9}	492.29	31.92	460.37	0.02	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-7	09/24/2015 ^{5,9}	492.29	32.40	459.89	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-7	03/10/2016 ^{9,4}	492.29	30.28	462.01	0.00	0.00	7,600	11,000 / 8,300	14,000	1,500	26	190	53	-	-	-	-	-	-	-	-	-

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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-7	11/10/2016^{5,9}	492.29	32.09	460.20	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-8	05/25/2010 ¹	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 ⁵	490.89	38.48	452.41	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-8	06/04/2012 ^{4,8}	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 ⁵	490.89	38.73	452.16	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-8	12/10/2012 ⁴	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 ⁴	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 ⁴	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 ⁴	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 ⁴	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 ⁴	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 ⁵	490.89	38.52	452.37	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-8	09/11/2014 ⁵	490.89	38.51	452.38	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-8	03/24/2015 ⁵	490.89	38.35	452.54	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-8	09/24/2015 ⁵	490.89	38.55	452.34	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-8	03/10/2016 ⁵	490.89	38.37	452.52	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-8	11/10/2016⁴	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	-	-	-	-	-	-	-	-	-
MW-9	05/25/2010 ¹	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	-	-	-	-	-	-	-	-	-

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-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 ⁷	491.64	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-9	03/12/2012 ⁴	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 ⁷	491.64	35.80	455.84	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-9	9/10/2012 ⁴	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 ¹⁰	491.64	32.80	458.84	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-9	03/04/2013 ⁴	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 ⁴	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 ⁴	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 ⁴	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 ⁴	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 ⁵	491.64	38.81	452.83	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-9	09/11/2014 ¹¹	491.64	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-9	03/24/2015 ⁴	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 ¹¹	491.64	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-9	3/10/2016 ⁴	491.64	37.49	454.15	0.00	0.00	<50	<50 / <50	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
MW-9	11/10/2016⁴	491.64	35.43	456.21	0.00	0.00	-	<100 / <100	<100	<1	<1	<1	<1	-	-	-	-	-	-	-	-	-
MW-10	03/09/2012 ¹	491.15	28.00	463.15	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-10	03/12/2012 ⁴	491.15	28.11	463.04	0.00	0.00	-	440/260	3,100	<1	<1	36	16	-	-	-	-	-	-	-	-	-
MW-10	06/04/2012 ⁴	491.15	29.49	461.66	0.00	0.00	-	750/640	3,300	0.7	1	36	12	-	-	-	-	-	-	-	-	-
MW-10	09/10/2012 ⁵	491.15	32.10	459.05	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-10	12/10/2012 ⁴	491.15	26.03	465.12	0.00	0.00	-	240 / 200	950	<0.5	<0.5	2	2	-	-	-	-	-	-	-	-	-
MW-10	03/04/2013 ⁴	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	

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Former Texaco Station (Chevron 307233)
2259 First Street
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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-10	06/03/2013 ⁴	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 ⁵	491.15	31.88	459.27	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-10	12/09/2013 ⁴	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 ⁴	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 ⁵	491.15	31.89	459.26	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-10	09/11/2014 ⁵	491.15	32.04	459.11	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-10	03/24/2015 ⁵	491.15	31.46	459.69	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-10	09/24/2015 ¹¹	491.15	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-10	3/10/2016 ⁴	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	11/10/2016⁴	491.15	28.93	462.22	0.00	0.00	-	28,000 / 21,000	3,900	1	1	3	5	-	-	-	-	-	-	-	-	-
MW-11	03/09/2012 ¹	490.59	31.48	459.11	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-11	03/12/2012 ⁴	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 ⁵	490.59	34.22	456.37	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-11	09/10/2012 ⁵	490.59	34.48	456.11	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-11	12/10/2012 ⁴	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 ⁴	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 ⁴	490.59	31.53	459.06	0.00	0.00	-	690 / 200	<50	<0.5	<0.5	<0.5	<0.5	-	54,400	<54	670	-	-	490	-	
MW-11	09/09/2013 ⁵	490.59	34.13	456.46	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-11	12/09/2013 ⁴	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 ⁴	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 ⁵	490.59	34.23	456.36	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-11	09/11/2014 ⁵	490.59	34.22	456.37	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-11	03/24/2015 ⁵	490.59	34.05	456.54	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-11	09/24/2015 ⁵	490.59	34.35	456.24	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-11	03/10/2016 ⁵	490.59	34.25	456.34	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-11	11/10/2016⁵	490.59	34.18	456.41	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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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-12	03/09/2012 ¹	493.72	25.43	468.29	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-12	03/12/2012 ⁴	493.72	26.97	466.75	0.00	0.00	-	1,100/310	3,000	10	1	19	38	-	-	-	-	-	-	-	-	-
MW-12	06/04/2012 ⁴	493.72	26.54	467.18	0.00	0.00	-	990/510	4,200	15	2	12	23	-	-	-	-	-	-	-	-	-
MW-12	09/10/2012 ⁴	493.72	28.80	464.92	0.00	0.00	-	1,000 / 290	2,500	30	2	2	2	-	-	-	-	-	-	-	-	-
MW-12	12/10/2012 ⁴	493.72	25.36	468.36	0.00	0.00	-	840 / 330	2,500	10	<3	<3	<3	-	-	-	-	-	-	-	-	-
MW-12	03/04/2013 ⁴	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 ⁴	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 ⁴	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 ⁴	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 ⁴	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 ⁴	493.72	28.09	465.63	0.00	0.00	-	1,000 / 260	3,000	23	2	18	13	-	-	-	-	-	-	-	-	-
MW-12	09/11/2014 ⁴	493.72	31.53	462.19	0.00	0.00	-	640 / 240	2,400	14	1	6	4	-	-	-	-	-	-	-	-	-
MW-12	03/24/2015 ⁴	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 ⁴	493.72	29.92	463.80	0.00	0.00	-	640 / 190	2,800	10	1	1	2	-	-	-	-	-	-	-	-	-
MW-12	03/10/2016 ⁴	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	11/10/2016⁴	493.72	27.03	466.69	0.00	0.00	-	480 / 210	2,400	0.7 J	<1	0.7 J	<1	-	-	-	-	-	-	-	-	-
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	-	-	-	-	-	-	-	-	-

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	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	-	-	-	-	-	-	-	-	-

Abbreviations and Notes:

TOC = Top of casing

DTW = Depth to water

GWE = Groundwater elevation

(ft-amsl) = Feet above mean sea level

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

ft = Feet

µg/L = Micrograms per liter

TPH-DRO = Total petroleum hydrocarbons - diesel range organics

TPH-GRO = Total petroleum hydrocarbons - gasoline range organics

VOCS = Volatile organic compounds

B = Benzene

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.

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

- 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

November 18, 2016

G-R #385876

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 Second Semi-Annual Event of November 10, 2016

COMMENTS:

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

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

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

trans/307233

WELL CONDITION STATUS SHEET

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

Job #: **385876**
 Event Date: 11/10/16
 Sampler: AW

WELL ID	Vault Frame Condition	Gasket/O-Ring (M) Missing (R) Replaced	Bolts (M) Missing (R) Replaced	Bolt Flanges B=Broken S=Stripped R=Retaped	Apron Condition C=Cracked B=Broken G=Gone	Grout Seal (Deficient) Inches from TOC	Casing (Condition prevents tight cap seal)	REPLACE LOCK Y/N	REPLACE CAP Y/N	WELL VAULT Manufacture/Size/ # of Bolts	Pictures Taken Y/N
MW-7	OK	→	→	ZB	OK	→	→	N	N	Emco 1 8 1/2	N
MW-4	OK	→	→	ZB	OK	→	→	↓	↓	Emco Morrison 1 6 1/2	↓
MW-12	OK	→	→	ZB IB	OK	→	→	↓	↓	Whisper 1 8 1/2	↓
MW-6	OK	→	→	ZB	OK	→	→	↓	↓	Morrison 1 6 1/2	↓
MW-9	OK	→	→	ZB	OK	→	→	↓	↓	↓	↓
MW-5	OK	→	→	→	→	→	→	↓	↓	Emco 1 12 1/2	↓

Comments _____

WELL CONDITION STATUS SHEET

Client/
Facility #: **Chevron #307233**

Site Address: **2259 First Street**

City: **Livermore, CA**

Job #: **385876**

Event Date: **11.10.12**

Sampler: **FR**

WELL ID	Vault Frame Condition	Gasket/O-Ring (M) Missing (R) Replaced	Bolts (M) Missing (R) Replaced	Bolt Flanges B=Broken S=Stripped R=Retaped	Apron Condition C=Cracked B=Broken G=Gone	Grout Seal (Deficient) Inches from TOC	Casing (Condition prevents tight cap seal)	REPLACE LOCK Y/ <input checked="" type="checkbox"/>	REPLACE CAP Y/ <input checked="" type="checkbox"/>	WELL VAULT Manufacture/Size/ # of Bolts	Pictures Taken Y/ <input checked="" type="checkbox"/>
MW-1	OK									Emco/12"/2	
MW-2	OK									" " "	
MW-8	OK									" " "	
MW-10	OK									8" Box (Unknown) 2	
MW-11	OK			B32	OK					" " "	
MW-3	OK									manison / 6"/2	

Comments _____

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: 385876
 Site Address: 2259 First Street Event Date: 11-10-16 (inclusive)
 City: Livermore, CA Sampler: FT

Well ID: MW-1 Date Monitored: 11-10-16
 Well Diameter: 2 in.
 Total Depth: 58.84 ft.
 Depth to Water: 35.83 ft. Check if water column is less than 0.50 ft.
23.01 xVF .17 = 3.91 x3 case volume = Estimated Purge Volume: 12.0 gal.
 Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 40.43

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): 0935 Weather Conditions: Sunny
 Sample Time/Date: 1015 / 11-10-16 Water Color: CLEAR Odor: Y / 10
 Approx. Flow Rate: - gpm. Sediment Description: NONE
 Did well de-water? No If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 35.92

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (mS μmhos/cm)	Temperature (° / F)	D.O. (mg/L)	ORP (mV)
<u>0943</u>	<u>4.0</u>	<u>7.93</u>	<u>1038</u>	<u>19.2</u>		
<u>0951</u>	<u>8.0</u>	<u>7.89</u>	<u>1045</u>	<u>19.5</u>		
<u>1000</u>	<u>12.0</u>	<u>7.85</u>	<u>1053</u>	<u>19.9</u>		

LABORATORY INFORMATION

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

COMMENTS: EM 12" OIL



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #307233 Job Number: 385876
 Site Address: 2259 First Street Event Date: 11.10.16 (inclusive)
 City: Livermore, CA Sampler: FR

Well ID: MW-2 Date Monitored: 11.10.16
 Well Diameter: 2 in.
 Total Depth: 58.60 ft.
 Depth to Water: 36.33 ft. Check if water column is less than 0.50 ft.
22.27 xVF .17 = 3.78 x3 case volume = Estimated Purge Volume: 11.0 gal.
 Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 40.78

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): 0745 Weather Conditions: Sunny
 Sample Time/Date: 0805/11.10.16 Water Color: CLEAR Odor: Y / N
 Approx. Flow Rate: 2.0 gpm. Sediment Description: NONE
 Did well de-water? NO If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 36.48

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS/mS / µmhos/cm)	Temperature (°C / F)	D.O. (mg/L)	ORP (mV)
<u>0747</u>	<u>3.5</u>	<u>7.97</u>	<u>1022</u>	<u>19.4</u>	_____	_____
<u>0749</u>	<u>7.0</u>	<u>7.94</u>	<u>1031</u>	<u>19.6</u>	_____	_____
<u>0751</u>	<u>11.0</u>	<u>7.91</u>	<u>1039</u>	<u>19.9</u>	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-2</u>	<u>0</u> x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)
	<u>2</u> x 500ml ambers	YES	NP	LANCASTER	TPH-DRO w/sgc COLUMN/TPH-DRO w/sgc(8015)

COMMENTS: Emco 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: 385876
 Event Date: 11.10.16 (inclusive)
 Sampler: FT

Well ID: MW-3
 Well Diameter: 2 in.
 Total Depth: 59.94 ft.
 Depth to Water: 36.11 ft.

Date Monitored: 11.10.16

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.

23.83 xVF .17 = 4.05 x3 case volume = Estimated Purge Volume: 12.0 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 40.87

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): 1035
 Sample Time/Date: 1055 / 11-10-16
 Approx. Flow Rate: 2.0 gpm.
 Did well de-water? No If yes, Time: _____ Volume: _____ gal.

Weather Conditions: SUNNY
 Water Color: CLEAN Odor: Y / 0
 Sediment Description: NONE
 DTW @ Sampling: 36.52

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (US) mS μmhos/cm	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
<u>1037</u>	<u>4.0</u>	<u>7.89</u>	<u>1018</u>	<u>19.3</u>	<u>/</u>	<u>/</u>
<u>1039</u>	<u>8.0</u>	<u>7.86</u>	<u>1026</u>	<u>19.7</u>	<u>/</u>	<u>/</u>
<u>1041</u>	<u>12.0</u>	<u>7.83</u>	<u>1033</u>	<u>20.0</u>	<u>/</u>	<u>/</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>LANCASTER</u>	<u>TPH-GRO(8015)/BTEX(8260)</u>
	<u>2</u> x 500ml ambers	<u>YES</u>	<u>NP</u>	<u>LANCASTER</u>	<u>TPH-DRO w/sgc COLUMN/TPH-DRO w/sgc(8015)</u>

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: 385876
 Site Address: 2259 First Street Event Date: 11-10-16 (inclusive)
 City: Livermore, CA Sampler: AW

Well ID: MW-4 Date Monitored: 11-10-16
 Well Diameter: 2 in.
 Total Depth: 58.95 ft.
 Depth to Water: 37.43 ft. Check if water column is less than 0.50 ft.
21.52 xVF .17 = 3.65 x3 case volume = Estimated Purge Volume: 11.0 gal.
 Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 41.73

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

Purge Equipment:

Disposable Bailer _____
 Stainless Steel Bailer _____
 Stack Pump _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Sampling Equipment:

Disposable Bailer _____
 Pressure Bailer _____
 Metal Filters _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

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

Start Time (purge): 0730 Weather Conditions: Sunny
 Sample Time/Date: 0800 / 11-10-16 Water Color: Cloudy Odor: (Y) N / Moderate
 Approx. Flow Rate: 1.0 gpm. Sediment Description: Cloudy
 Did well de-water? N If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 40.98

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS/cm)	Temperature (°C / F)	D.O. (mg/L)	ORP (mV)
<u>0734</u>	<u>4.0</u>	<u>7.62</u>	<u>588</u>	<u>18.1</u>		
<u>0738</u>	<u>8.0</u>	<u>7.57</u>	<u>604</u>	<u>18.2</u>		
<u>0742</u>	<u>11.0</u>	<u>7.52</u>	<u>633</u>	<u>18.3</u>		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-4</u>	<u>6</u> x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)
	<u>2</u> x 500ml ambers	YES	NP	LANCASTER	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: 385876
 Event Date: 11-10-16 (inclusive)
 Sampler: Am

Well ID: MW-5
 Well Diameter: 2 in.
 Total Depth: 59.91 ft.
 Depth to Water: 36.58 ft.
23.33 xVF = .17 = 3.96

Date Monitored: 11-10-16

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: 12.0 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 41.24

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: 1038 / 11-10-16
 Approx. Flow Rate: 1.0 gpm.
 Did well de-water? N If yes, Time: _____ Volume: _____ gal.

Weather Conditions: Sunny
 Water Color: Cloudy Odor: Ⓟ / N / Slight
 Sediment Description: Cloudy
 DTW @ Sampling: 40.13

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (mS/cm)	Temperature (°F)	D.O. (mg/L)	ORP (mV)
<u>1034</u>	<u>4.0</u>	<u>7.95</u>	<u>502</u>	<u>21.4</u>		
<u>1038</u>	<u>8.0</u>	<u>7.90</u>	<u>536</u>	<u>21.4</u>		
<u>1042</u>	<u>12.0</u>	<u>7.81</u>	<u>555</u>	<u>21.3</u>		

LABORATORY INFORMATION

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

COMMENTS: _____



GETTLER - RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #307233 Job Number: 385876
 Site Address: 2259 First Street Event Date: 11-10-16 (inclusive)
 City: Livermore, CA Sampler: AW

Well ID: MW-6 Date Monitored: 11-10-16
 Well Diameter: 2 in.
 Total Depth: 59.04 ft.
 Depth to Water: 36.95 ft. Check if water column is less than 0.50 ft.
22.09 xVF .17 = 3.75 x3 case volume = Estimated Purge Volume: 11.5 gal.
 Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 41.36

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): 0900 Weather Conditions: Sunny
 Sample Time/Date: 0930 / 11-10-16 Water Color: Cloudy Odor: 0 / N Slight
 Approx. Flow Rate: 1.0 gpm. Sediment Description: Cloudy
 Did well de-water? N If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 40.59

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (° / F)	D.O. (mg/L)	ORP (mV)
<u>0904</u>	<u>4.0</u>	<u>7.80</u>	<u>539</u>	<u>19.6</u>		
<u>0908</u>	<u>8.0</u>	<u>7.72</u>	<u>600</u>	<u>19.7</u>		
<u>0912</u>	<u>11.5</u>	<u>7.68</u>	<u>633</u>	<u>19.7</u>		

LABORATORY INFORMATION

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

COMMENTS: _____

Add/Replaced Gasket: _____ Add/Replaced Bolt: _____ Add/Replaced Lock: _____ Add/Replaced Plug: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

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

Job Number: 385876
 Event Date: 11-10-16 (inclusive)
 Sampler: AW

Well ID: MW-7
 Well Diameter: 2 in.
 Total Depth: 32.70 ft.
 Depth to Water: 32.09 ft.
0.61 xVF = _____ x3 case volume = Estimated Purge Volume: _____ gal.

Date Monitored: 11-10-16

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

Check if water column is less than 0.50 ft.

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

Purge Equipment:
 Disposable Bailer _____
 Stainless Steel Bailer _____
 Stack Pump _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Sampling Equipment:
 Disposable Bailer _____
 Pressure Bailer _____
 Metal Filters _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

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

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

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

LABORATORY INFORMATION

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

COMMENTS: Insufficient H₂O - No sample taken
* Stinger in well.

Add/Replaced Gasket: _____ Add/Replaced Bolt: _____ Add/Replaced Lock: _____ Add/Replaced Plug: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

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

Job Number: 385876
 Event Date: 11.10.16 (inclusive)
 Sampler: FT

Well ID: MW-8
 Well Diameter: 2 in.
 Total Depth: 38.62 ft.
 Depth to Water: 36.18 ft.

Date Monitored: 11.10.16

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.

2.44 xVF .17 = .41 x3 case volume = Estimated Purge Volume: 1.0 gal.

Depth to Water w/ 80% Recharge ((Height of Water Column x 0.20) + DTW): 36.67

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): 0900 Weather Conditions: Sunny
 Sample Time/Date: 0920 / 11.10.16 Water Color: lt. brn. Odor: ⊙ / N STAGE
 Approx. Flow Rate: / gpm. Sediment Description: S. silt
 Did well de-water? No If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 36.62

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (⊙ / mS μmhos/cm)	Temperature (⊙ / F)	D.O. (mg/L)	ORP (mV)
<u>0903</u>	<u>.25</u>	<u>7.57</u>	<u>571</u>	<u>19.1</u>	_____	_____
<u>0906</u>	<u>.50</u>	<u>7.58</u>	<u>574</u>	<u>19.2</u>	_____	_____
<u>0909</u>	<u>1.0</u>	<u>7.60</u>	<u>579</u>	<u>19.4</u>	_____	_____

LABORATORY INFORMATION

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

COMMENTS: Emilio run on



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #307233 Job Number: 385876
 Site Address: 2259 First Street Event Date: 11-10-16 (inclusive)
 City: Livermore, CA Sampler: AW

Well ID: MW-9 Date Monitored: 11-10-16
 Well Diameter: 2 in.
 Total Depth: 39.82 ft.
 Depth to Water: 35.43 ft. Check if water column is less than 0.50 ft.
4.39 xVF .17 = 0.74 x3 case volume = Estimated Purge Volume: 2.5 gal.
 Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 36.30

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): 0945 Weather Conditions: Sunny
 Sample Time/Date: 1015 / 11-10-16 Water Color: Cloudy Odor: Y / N
 Approx. Flow Rate: _____ gpm. Sediment Description: Cloudy
 Did well de-water? N If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 36.09

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS/mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
<u>0949</u>	<u>0.15</u>	<u>7.72</u>	<u>680</u>	<u>19.9</u>		
<u>0955</u>	<u>1.5</u>	<u>7.55</u>	<u>699</u>	<u>19.9</u>		
<u>1000</u>	<u>2.5</u>	<u>7.50</u>	<u>714</u>	<u>20.2</u>		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-9</u>	<u>6</u> x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)
	<u>2</u> x 500ml ambers	YES	NP	LANCASTER	TPH-DRO w/sgc COLUMN/TPH-DRO w/sgc(8015)

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: 385876
 Site Address: 2259 First Street Event Date: 11.10.16 (inclusive)
 City: Livermore, CA Sampler: FT

Well ID: MW-10 Date Monitored: 11.10.16
 Well Diameter: 2 in.
 Total Depth: 32.06 ft.
 Depth to Water: 28.93 ft. Check if water column is less than 0.50 ft.
3.13 xVF .17 = .53 x3 case volume = Estimated Purge Volume: 2.0 gal.
 Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 29.55

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): 0825 Weather Conditions: Sunny
 Sample Time/Date: 0845 / 11.10.16 Water Color: LT-bry. Odor: ⊙ / N MODERATE
 Approx. Flow Rate: / gpm. Sediment Description: S. SILTY
 Did well de-water? NO If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 29.51

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (⊙ / mS μmhos/cm)	Temperature (⊙ / F)	D.O. (mg/L)	ORP (mV)
<u>0828</u>	<u>.75</u>	<u>7.56</u>	<u>6.23</u>	<u>19.2</u>		
<u>0831</u>	<u>1.5</u>	<u>7.57</u>	<u>6.27</u>	<u>19.3</u>		
<u>0834</u>	<u>2.0</u>	<u>7.58</u>	<u>6.30</u>	<u>19.4</u>		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-10</u>	<u>4</u> x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)
	<u>2</u> x 500ml ambers	YES	NP	LANCASTER	TPH-DRO w/sgc COLUMN/TPH-DRO w/sgc(8015)

COMMENTS: 8" Boy (UNKNOWN) on



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

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

Job Number: 385876
 Event Date: 11.10.16 (inclusive)
 Sampler: PT

Well ID: MW-11
 Well Diameter: 2 in.
 Total Depth: 34.64 ft.
 Depth to Water: 34.18 ft.
.46 xVF = _____ x3 case volume = Estimated Purge Volume: _____ gal.

Date Monitored: 11.10.16

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

Check if water column is less than 0.50 ft.

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

Purge Equipment:

Disposable Bailer _____
 Stainless Steel Bailer _____
 Stack Pump _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Sampling Equipment:

Disposable Bailer _____
 Pressure Bailer _____
 Metal Filters _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

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

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

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

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

LABORATORY INFORMATION

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

COMMENTS: Insignificant H2O



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #307233 Job Number: 385876
 Site Address: 2259 First Street Event Date: 11-10-16 (inclusive)
 City: Livermore, CA Sampler: AW

Well ID: MW-12 Date Monitored: 11-10-16
 Well Diameter: 2 in.
 Total Depth: 34.53 ft.
 Depth to Water: 27.03 ft. Check if water column is less than 0.50 ft.
7.50 xVF .17 = 1.27 x3 case volume = Estimated Purge Volume: 4.0 gal.
 Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 28.53

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

Purge Equipment:
 Disposable Bailer
 Stainless Steel Bailer _____
 Stack Pump _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Sampling Equipment:
 Disposable Bailer
 Pressure Bailer _____
 Metal Filters _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

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

Start Time (purge): 0815 Weather Conditions: Sunny
 Sample Time/Date: 0845 / 11-10-16 Water Color: Clear Odor: Y
 Approx. Flow Rate: _____ gpm. Sediment Description: Clear
 Did well de-water? N If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 28.09

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (US)ms μmhos/cm	Temperature (° / F)	D.O. (mg/L)	ORP (mV)
<u>0820</u>	<u>1.5</u>	<u>7.36</u>	<u>859</u>	<u>19.1</u>		
<u>0825</u>	<u>3.0</u>	<u>7.41</u>	<u>811</u>	<u>19.2</u>		
<u>0830</u>	<u>4.0</u>	<u>7.45</u>	<u>797</u>	<u>19.3</u>		

LABORATORY INFORMATION

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

COMMENTS: _____

Add/Replaced Gasket: _____ Add/Replaced Bolt: _____ Add/Replaced Lock: _____ Add/Replaced Plug: _____

Chevron California Region Analysis Request/Chain of Custody



Lancaster Laboratories

111816-41

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

1 Client Information				4 Matrix				5 Analyses Requested									
Facility: SSW307233-OML G-R#385876 GlobalVista#T0600196622				<input type="checkbox"/> Sediment <input checked="" type="checkbox"/> Ground <input type="checkbox"/> Surface <input type="checkbox"/> Potable <input type="checkbox"/> NPDES <input type="checkbox"/> Air Total Number of Containers _____				<input checked="" type="checkbox"/> 8260 <input type="checkbox"/> 8021 <input checked="" type="checkbox"/> 8015 <input type="checkbox"/> TPH-GRO <input type="checkbox"/> TPH-DRO 8015 without Silica Gel Cleanup <input checked="" type="checkbox"/> TPH-DRO 8015 with Silica Gel Cleanup <input type="checkbox"/> 8260 Full Scan Oxygenates _____ Total Lead _____ Method _____ Dissolved Lead _____ Method _____ TPH-DRO w/sgc COLUMN (8015)									
Site: 2255 FIRST STREET, LIVERMORE, CA																	
Client: GHDSB Lead Consultant: Silva																	
Consultant Office: Center Ryan Inc., 6805 Sierra Court, Suite G, Dublin, CA 94568																	
Consultant Project Mgr: Deanna L. Harding, deanna@grinc.com																	
Consultant Phone #: (925) 551-7444 x180																	
Sampler: Alex W., Frank T.				3													
2 Sample Identification		Soil Depth	Collected		Grab	Composite											
			Date	Time													
QA			161110	/	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>										
MW-1			1015	/	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>										
MW-2			0805	/	<input type="checkbox"/>		<input type="checkbox"/>										
MW-3			1055	/	<input type="checkbox"/>		<input type="checkbox"/>										
MW-4			0800	/	<input type="checkbox"/>		<input type="checkbox"/>										
MW-5			1055	/	<input type="checkbox"/>		<input type="checkbox"/>										
MW-6			0930	/	<input type="checkbox"/>		<input type="checkbox"/>										
MW-8			0920	/	<input type="checkbox"/>		<input type="checkbox"/>										
MW-9			1015	/	<input type="checkbox"/>		<input type="checkbox"/>										
MW-10			0845	/	<input type="checkbox"/>		<input type="checkbox"/>										
MW-12			0845	/	<input type="checkbox"/>		<input type="checkbox"/>										

- 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

6 Remarks

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

7 Turnaround Time Requested (TAT) (please circle)

Standard 5 day 4 day

72 hour 48 hour 24 hours **EDF/EDD**

Relinquished by _____	Date	Time	Received by _____	Date	Time
_____	16.11.10	1130	_____	16.11.10	1130
Relinquished by _____	Date	Time	Received by _____	Date	Time
_____	16.11.10	1350	_____	16 NOV 16	1354

8 Data Package (circle if required)

Type I - Full _____

Type VI (Raw Data) _____

EDD (circle if required)

EDFFLAT (default) _____

Other: _____

Relinquished by Commercial Carrier:

UPS _____ FedEx _____ Other _____

Temperature Upon Receipt _____ °C

Custody Seals Intact? Yes No

Attachment B Laboratory Analytical Report

ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

Report Date: December 08, 2016

Project: 307233

Submittal Date: 11/11/2016
Group Number: 1732337
PO Number: 0015188594
Release Number: CMACLEOD
State of Sample Origin: CA

Client Sample Description

	Lancaster Labs (LL) #
QA-T-161110 NA Water	8693042
MW-1-W-161110 Grab Groundwater	8693043
MW-1-W-161110 Grab Groundwater	8693044
MW-2-W-161110 Grab Groundwater	8693045
MW-2-W-161110 Grab Groundwater	8693046
MW-3-W-161110 Grab Groundwater	8693047
MW-3-W-161110 Grab Groundwater	8693048
MW-4-W-161110 Grab Groundwater	8693049
MW-4-W-161110 Grab Groundwater	8693050
MW-5-W-161110 Grab Groundwater	8693051
MW-5-W-161110 Grab Groundwater	8693052
MW-6-W-161110 Grab Groundwater	8693053
MW-6-W-161110 Grab Groundwater	8693054
MW-8-W-161110 Grab Groundwater	8693055
MW-8-W-161110 Grab Groundwater	8693056
MW-9-W-161110 Grab Groundwater	8693057
MW-9-W-161110 Grab Groundwater	8693058
MW-10-W-161110 Grab Groundwater	8693059
MW-10-W-161110 Grab Groundwater	8693060
MW-12-W-161110 Grab Groundwater	8693061
MW-12-W-161110 Grab Groundwater	8693062

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

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-161110 NA Water
Facility# 307233 Job# 385876 GRD
2259 First St-Livermore T0600196622

LL Sample # WW 8693042
LL Group # 1732337
Account # 10904

Project Name: 307233

Collected: 11/10/2016

Chevron

Submitted: 11/11/2016 09:25

L4310

Reported: 12/08/2016 07:43

6001 Bollinger Canyon Rd.
San Ramon CA 94583

FSLQA

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B						
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
GC Volatiles SW-846 8015B						
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	Z163272AA	11/22/2016 12:24	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z163272AA	11/22/2016 12:24	Daniel H Heller	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	16323B20A	11/18/2016 13:53	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	16323B20A	11/18/2016 13:53	Brett W Kenyon	1

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

Sample Description: MW-1-W-161110 Grab Groundwater
Facility# 307233 Job# 385876 GRD
2259 First St-Livermore T0600196622

LL Sample # WW 8693043
LL Group # 1732337
Account # 10904

Project Name: 307233

Collected: 11/10/2016 10:15 by AW Chevron
L4310
Submitted: 11/11/2016 09:25 6001 Bollinger Canyon Rd.
Reported: 12/08/2016 07:43 San Ramon CA 94583

FSL1S

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles 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
The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. Since the recovery is high and no target analytes were detected, the data is reported.						
GC Volatiles SW-846 8015B ug/l						
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	100	1
GC Petroleum SW-846 8015B ug/l						
Hydrocarbons w/Si						
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	Z163272AA	11/22/2016 16:50	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z163272AA	11/22/2016 16:50	Daniel H Heller	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	16323B20A	11/18/2016 14:48	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	16323B20A	11/18/2016 14:48	Brett W Kenyon	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	163210023A	12/01/2016 23:36	Thomas C Wildermuth	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	163210023A	11/17/2016 09:00	Bradley W VanLeuven	1

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

Sample Description: MW-1-W-161110 Grab Groundwater
Facility# 307233 Job# 385876 GRD
2259 First St-Livermore T0600196622

LL Sample # WW 8693044
LL Group # 1732337
Account # 10904

Project Name: 307233

Collected: 11/10/2016 10:15 by AW Chevron
L4310
Submitted: 11/11/2016 09:25 6001 Bollinger Canyon Rd.
Reported: 12/08/2016 07:43 San Ramon CA 94583

FSL1Q

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	1	163210024A	11/18/2016 23:52	Amy Lehr	1
11180	Low Vol Ext (W) w/SG	SW-846 3510C	1	163210024A	11/17/2016 09:00	Bradley W VanLeuven	1

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

Sample Description: MW-2-W-161110 Grab Groundwater
Facility# 307233 Job# 385876 GRD
2259 First St-Livermore T0600196622

LL Sample # WW 8693045
LL Group # 1732337
Account # 10904

Project Name: 307233

Collected: 11/10/2016 08:05 by AW Chevron
L4310
Submitted: 11/11/2016 09:25 6001 Bollinger Canyon Rd.
Reported: 12/08/2016 07:43 San Ramon CA 94583

FSL2S

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B ug/1						
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
The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. Since the recovery is high and no target analytes were detected, the data is reported.						
GC Volatiles SW-846 8015B ug/1						
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	100	1
GC Petroleum SW-846 8015B ug/1						
Hydrocarbons w/Si						
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	Z163272AA	11/22/2016 17:14	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z163272AA	11/22/2016 17:14	Daniel H Heller	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	16323B20A	11/18/2016 15:16	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	16323B20A	11/18/2016 15:16	Brett W Kenyon	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	163210023A	12/01/2016 23:57	Thomas C Wildermuth	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	163210023A	11/17/2016 09:00	Bradley W VanLeuven	1

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

Sample Description: MW-2-W-161110 Grab Groundwater
Facility# 307233 Job# 385876 GRD
2259 First St-Livermore T0600196622

LL Sample # WW 8693046
LL Group # 1732337
Account # 10904

Project Name: 307233

Collected: 11/10/2016 08:05 by AW Chevron
L4310
Submitted: 11/11/2016 09:25 6001 Bollinger Canyon Rd.
Reported: 12/08/2016 07:43 San Ramon CA 94583

FSL2Q

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.	86 J	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	2	163210024A	11/19/2016 00:14	Amy Lehr	1
11180	Low Vol Ext (W) w/SG	SW-846 3510C	1	163210024A	11/17/2016 09:00	Bradley W VanLeuven	1

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

Sample Description: MW-3-W-161110 Grab Groundwater
Facility# 307233 Job# 385876 GRD
2259 First St-Livermore T0600196622

LL Sample # WW 8693047
LL Group # 1732337
Account # 10904

Project Name: 307233

Collected: 11/10/2016 10:55 by AW Chevron
L4310
Submitted: 11/11/2016 09:25 6001 Bollinger Canyon Rd.
Reported: 12/08/2016 07:43 San Ramon CA 94583

FSL3S

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles 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
The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. Since the recovery is high and no target analytes were detected, the data is reported.						
GC Volatiles SW-846 8015B ug/l						
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	100	1
GC Petroleum SW-846 8015B ug/l						
Hydrocarbons w/Si						
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	Z163272AA	11/22/2016 17:38	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z163272AA	11/22/2016 17:38	Daniel H Heller	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	16323B20A	11/18/2016 15:43	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	16323B20A	11/18/2016 15:43	Brett W Kenyon	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	163210023A	12/02/2016 00:19	Thomas C Wildermuth	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	163210023A	11/17/2016 09:00	Bradley W VanLeuven	1

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

Sample Description: MW-3-W-161110 Grab Groundwater
Facility# 307233 Job# 385876 GRD
2259 First St-Livermore T0600196622

LL Sample # WW 8693048
LL Group # 1732337
Account # 10904

Project Name: 307233

Collected: 11/10/2016 10:55 by AW Chevron
L4310
Submitted: 11/11/2016 09:25 6001 Bollinger Canyon Rd.
Reported: 12/08/2016 07:43 San Ramon CA 94583

FSL3Q

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.	160	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	2	163210024A	11/19/2016 00:35	Amy Lehr	1
11180	Low Vol Ext (W) w/SG	SW-846 3510C	1	163210024A	11/17/2016 09:00	Bradley W VanLeuven	1

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

Sample Description: MW-4-W-161110 Grab Groundwater
Facility# 307233 Job# 385876 GRD
2259 First St-Livermore T0600196622

LL Sample # WW 8693049
LL Group # 1732337
Account # 10904

Project Name: 307233

Collected: 11/10/2016 08:00 by AW

Chevron

L4310

Submitted: 11/11/2016 09:25

6001 Bollinger Canyon Rd.

Reported: 12/08/2016 07:43

San Ramon CA 94583

FSL4S

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B						
10945	Benzene	71-43-2	3	ug/1 0.5	ug/1 1	1
10945	Ethylbenzene	100-41-4	0.9 J	0.5	1	1
10945	Toluene	108-88-3	0.7 J	0.5	1	1
10945	Xylene (Total)	1330-20-7	2	0.5	1	1
GC Volatiles SW-846 8015B						
01728	TPH-GRO N. CA water C6-C12	n.a.	2,400	ug/1 250	ug/1 500	5

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	P163281AA	11/23/2016 10:27	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	P163281AA	11/23/2016 10:27	Daniel H Heller	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	16323B20A	11/18/2016 22:08	Brett W Kenyon	5
01146	GC VOA Water Prep	SW-846 5030B	1	16323B20A	11/18/2016 22:08	Brett W Kenyon	5

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

Sample Description: MW-4-W-161110 Grab Groundwater
Facility# 307233 Job# 385876 GRD
2259 First St-Livermore T0600196622

LL Sample # WW 8693050
LL Group # 1732337
Account # 10904

Project Name: 307233

Collected: 11/10/2016 08:00 by AW Chevron
L4310
Submitted: 11/11/2016 09:25 6001 Bollinger Canyon Rd.
Reported: 12/08/2016 07:43 San Ramon CA 94583

FSL4Q

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.	330	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	163210024A	11/19/2016 00:57	Amy Lehr	1
11180	Low Vol Ext (W) w/SG	SW-846 3510C	1	163210024A	11/17/2016 09:00	Bradley W VanLeuven	1

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

Sample Description: MW-5-W-161110 Grab Groundwater
Facility# 307233 Job# 385876 GRD
2259 First St-Livermore T0600196622

LL Sample # WW 8693051
LL Group # 1732337
Account # 10904

Project Name: 307233

Collected: 11/10/2016 10:55 by AW Chevron
L4310
Submitted: 11/11/2016 09:25 6001 Bollinger Canyon Rd.
Reported: 12/08/2016 07:43 San Ramon CA 94583

FSL5S

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles 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
The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. Since the recovery is high and no target analytes were detected, the data is reported.						
GC Volatiles SW-846 8015B ug/l						
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	100	1
GC Petroleum SW-846 8015B ug/l						
Hydrocarbons w/Si						
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	Z163272AA	11/22/2016 18:26	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z163272AA	11/22/2016 18:26	Daniel H Heller	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	16323B20A	11/18/2016 16:11	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	16323B20A	11/18/2016 16:11	Brett W Kenyon	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	163210023A	12/02/2016 00:40	Thomas C Wildermuth	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	163210023A	11/17/2016 09:00	Bradley W VanLeuven	1

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

Sample Description: MW-5-W-161110 Grab Groundwater
 Facility# 307233 Job# 385876 GRD
 2259 First St-Livermore T0600196622

LL Sample # WW 8693052
 LL Group # 1732337
 Account # 10904

Project Name: 307233

Collected: 11/10/2016 10:55 by AW Chevron
 Submitted: 11/11/2016 09:25 L4310
 Reported: 12/08/2016 07:43 6001 Bollinger Canyon Rd.
 San Ramon CA 94583

FSL5Q

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	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	1	163210024A	11/19/2016 02:23	Amy Lehr	1
11180	Low Vol Ext (W) w/SG	SW-846 3510C	1	163210024A	11/17/2016 09:00	Bradley W VanLeuven	1

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

Sample Description: MW-6-W-161110 Grab Groundwater
Facility# 307233 Job# 385876 GRD
2259 First St-Livermore T0600196622

LL Sample # WW 8693053
LL Group # 1732337
Account # 10904

Project Name: 307233

Collected: 11/10/2016 09:30 by AW Chevron
L4310
Submitted: 11/11/2016 09:25 6001 Bollinger Canyon Rd.
Reported: 12/08/2016 07:43 San Ramon CA 94583

FSL6S

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B ug/l						
10945	Benzene	71-43-2	3	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
GC Volatiles SW-846 8015B ug/l						
01728	TPH-GRO N. CA water C6-C12	n.a.	1,200	50	100	1
GC Petroleum SW-846 8015B ug/l						
Hydrocarbons w/Si						
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	Z163272AA	11/22/2016 18:50	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z163272AA	11/22/2016 18:50	Daniel H Heller	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	16323B20A	11/18/2016 16:38	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	16323B20A	11/18/2016 16:38	Brett W Kenyon	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	163210023A	12/02/2016 01:01	Thomas C Wildermuth	1
11180	Low Vol Ext (W) w/SG	SW-846 3510C	1	163210023A	11/17/2016 09:00	Bradley W VanLeuven	1

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

Sample Description: MW-6-W-161110 Grab Groundwater
Facility# 307233 Job# 385876 GRD
2259 First St-Livermore T0600196622

LL Sample # WW 8693054
LL Group # 1732337
Account # 10904

Project Name: 307233

Collected: 11/10/2016 09:30 by AW Chevron
L4310
Submitted: 11/11/2016 09:25 6001 Bollinger Canyon Rd.
Reported: 12/08/2016 07:43 San Ramon CA 94583

FSL6Q

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.	240	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	2	163210024A	11/19/2016 01:18	Amy Lehr	1
11180	Low Vol Ext (W) w/SG	SW-846 3510C	1	163210024A	11/17/2016 09:00	Bradley W VanLeuven	1

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

Sample Description: MW-8-W-161110 Grab Groundwater
Facility# 307233 Job# 385876 GRD
2259 First St-Livermore T0600196622

LL Sample # WW 8693055
LL Group # 1732337
Account # 10904

Project Name: 307233

Collected: 11/10/2016 09:20 by AW

Chevron

L4310

Submitted: 11/11/2016 09:25

6001 Bollinger Canyon Rd.

Reported: 12/08/2016 07:43

San Ramon CA 94583

FSL8S

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B						
10945	Benzene	71-43-2	0.6 J	0.5	1	1
10945	Ethylbenzene	100-41-4	0.6 J	0.5	1	1
10945	Toluene	108-88-3	0.6 J	0.5	1	1
10945	Xylene (Total)	1330-20-7	0.8 J	0.5	1	1
GC Volatiles SW-846 8015B						
01728	TPH-GRO N. CA water C6-C12	n.a.	11,000	5,000	10,000	100
GC Petroleum SW-846 8015B						
Hydrocarbons w/Si						
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	22,000	67	210	2
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	P163281AA	11/23/2016 10:50	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	P163281AA	11/23/2016 10:50	Daniel H Heller	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	16323B20A	11/18/2016 22:35	Brett W Kenyon	100
01146	GC VOA Water Prep	SW-846 5030B	1	16323B20A	11/18/2016 22:35	Brett W Kenyon	100
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	163210023A	12/05/2016 21:35	Amy Lehr	2
11180	Low Vol Ext (W) w/SG	SW-846 3510C	1	163210023A	11/17/2016 09:00	Bradley W VanLeuven	1

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

Sample Description: MW-8-W-161110 Grab Groundwater
 Facility# 307233 Job# 385876 GRD
 2259 First St-Livermore T0600196622

LL Sample # WW 8693056
 LL Group # 1732337
 Account # 10904

Project Name: 307233

Collected: 11/10/2016 09:20 by AW Chevron
 Submitted: 11/11/2016 09:25 L4310
 Reported: 12/08/2016 07:43 6001 Bollinger Canyon Rd.
 San Ramon CA 94583

FSL8Q

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.	35,000	170	530	5

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	163210024A	11/19/2016 03:27	Amy Lehr	5
11180	Low Vol Ext (W) w/SG	SW-846 3510C	1	163210024A	11/17/2016 09:00	Bradley W VanLeuven	1

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

Sample Description: MW-9-W-161110 Grab Groundwater
Facility# 307233 Job# 385876 GRD
2259 First St-Livermore T0600196622

LL Sample # WW 8693057
LL Group # 1732337
Account # 10904

Project Name: 307233

Collected: 11/10/2016 10:15 by AW Chevron
L4310
Submitted: 11/11/2016 09:25 6001 Bollinger Canyon Rd.
Reported: 12/08/2016 07:43 San Ramon CA 94583

FSL9S

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles 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
The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. Since the recovery is high and no target analytes were detected, the data is reported.						
GC Volatiles SW-846 8015B ug/l						
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	100	1
GC Petroleum SW-846 8015B ug/l						
Hydrocarbons w/Si						
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	Z163272AA	11/22/2016 19:38	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z163272AA	11/22/2016 19:38	Daniel H Heller	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	16323B20A	11/18/2016 17:06	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	16323B20A	11/18/2016 17:06	Brett W Kenyon	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	163210023A	12/02/2016 01:23	Thomas C Wildermuth	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	163210023A	11/17/2016 09:00	Bradley W VanLeuven	1

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

Sample Description: MW-9-W-161110 Grab Groundwater
Facility# 307233 Job# 385876 GRD
2259 First St-Livermore T0600196622

LL Sample # WW 8693058
LL Group # 1732337
Account # 10904

Project Name: 307233

Collected: 11/10/2016 10:15 by AW Chevron
L4310
Submitted: 11/11/2016 09:25 6001 Bollinger Canyon Rd.
Reported: 12/08/2016 07:43 San Ramon CA 94583

FSL9Q

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	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	1	163210024A	11/19/2016 01:40	Amy Lehr	1
11180	Low Vol Ext (W) w/SG	SW-846 3510C	1	163210024A	11/17/2016 09:00	Bradley W VanLeuven	1

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

Sample Description: MW-10-W-161110 Grab Groundwater
Facility# 307233 Job# 385876 GRD
2259 First St-Livermore T0600196622

LL Sample # WW 8693059
LL Group # 1732337
Account # 10904

Project Name: 307233

Collected: 11/10/2016 08:45 by AW

Chevron

L4310

Submitted: 11/11/2016 09:25

6001 Bollinger Canyon Rd.

Reported: 12/08/2016 07:43

San Ramon CA 94583

FL10S

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles						
	SW-846 8260B		ug/l	ug/l	ug/l	
10945	Benzene	71-43-2	1	0.5	1	1
10945	Ethylbenzene	100-41-4	3	0.5	1	1
10945	Toluene	108-88-3	1	0.5	1	1
10945	Xylene (Total)	1330-20-7	5	0.5	1	1
GC Volatiles						
	SW-846 8015B		ug/l	ug/l	ug/l	
01728	TPH-GRO N. CA water C6-C12	n.a.	3,900	500	1,000	10
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.	21,000	70	220	2
Due to the dilution of the sample extract, capric acid recovery can not be determined.						

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	P163281AA	11/23/2016 11:13	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	P163281AA	11/23/2016 11:13	Daniel H Heller	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	16323B20A	11/18/2016 23:03	Brett W Kenyon	10
01146	GC VOA Water Prep	SW-846 5030B	1	16323B20A	11/18/2016 23:03	Brett W Kenyon	10
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	163210023A	12/05/2016 21:56	Amy Lehr	2
11180	Low Vol Ext (W) w/SG	SW-846 3510C	1	163210023A	11/17/2016 09:00	Bradley W VanLeuven	1

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

Sample Description: MW-10-W-161110 Grab Groundwater
Facility# 307233 Job# 385876 GRD
2259 First St-Livermore T0600196622

LL Sample # WW 8693060
LL Group # 1732337
Account # 10904

Project Name: 307233

Collected: 11/10/2016 08:45 by AW Chevron
L4310
Submitted: 11/11/2016 09:25 6001 Bollinger Canyon Rd.
Reported: 12/08/2016 07:43 San Ramon CA 94583

FL10Q

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.	28,000	170	540	5

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	163210024A	11/19/2016 03:49	Amy Lehr	5
11180	Low Vol Ext (W) w/SG	SW-846 3510C	1	163210024A	11/17/2016 09:00	Bradley W VanLeuven	1

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

Sample Description: MW-12-W-161110 Grab Groundwater
Facility# 307233 Job# 385876 GRD
2259 First St-Livermore T0600196622

LL Sample # WW 8693061
LL Group # 1732337
Account # 10904

Project Name: 307233

Collected: 11/10/2016 08:45 by AW Chevron
L4310
Submitted: 11/11/2016 09:25 6001 Bollinger Canyon Rd.
Reported: 12/08/2016 07:43 San Ramon CA 94583

FL12S

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles						
	SW-846 8260B		ug/l	ug/l	ug/l	
10945	Benzene	71-43-2	0.7 J	0.5	1	1
10945	Ethylbenzene	100-41-4	0.7 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
GC Volatiles						
	SW-846 8015B		ug/l	ug/l	ug/l	
01728	TPH-GRO N. CA water C6-C12	n.a.	2,400	50	100	1
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.	210	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	Z163272AA	11/22/2016 20:26	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z163272AA	11/22/2016 20:26	Daniel H Heller	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	16323B20A	11/18/2016 17:33	Jeremy C Giffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	16323B20A	11/18/2016 17:33	Jeremy C Giffin	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	163210023A	12/02/2016 02:06	Thomas C Wildermuth	1
11180	Low Vol Ext (W) w/SG	SW-846 3510C	1	163210023A	11/17/2016 09:00	Bradley W VanLeuven	1

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

Sample Description: MW-12-W-161110 Grab Groundwater
Facility# 307233 Job# 385876 GRD
2259 First St-Livermore T0600196622

LL Sample # WW 8693062
LL Group # 1732337
Account # 10904

Project Name: 307233

Collected: 11/10/2016 08:45 by AW Chevron
L4310
Submitted: 11/11/2016 09:25 6001 Bollinger Canyon Rd.
Reported: 12/08/2016 07:43 San Ramon CA 94583

FL12Q

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.	480	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	1	163210024A	11/19/2016 02:01	Amy Lehr	1
11180	Low Vol Ext (W) w/SG	SW-846 3510C	1	163210024A	11/17/2016 09:00	Bradley W VanLeuven	1

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

Quality Control Summary

Client Name: Chevron
Reported: 12/08/2016 07:43

Group Number: 1732337

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: P163281AA	Sample number(s): 8693049, 8693055, 8693059		
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: Z163272AA	Sample number(s): 8693042-8693043, 8693045, 8693047, 8693051, 8693053, 8693057, 8693061		
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: 16323B20A	Sample number(s): 8693042-8693043, 8693045, 8693047, 8693049, 8693051, 8693053, 8693055, 8693057, 8693059, 8693061		
TPH-GRO N. CA water C6-C12	N.D.	50	100
Batch number: 163210023A	Sample number(s): 8693043, 8693045, 8693047, 8693051, 8693053, 8693055, 8693057, 8693059, 8693061		
TPH-DRO CA C10-C28 w/ Si Gel	N.D.	32	100
Batch number: 163210024A	Sample number(s): 8693044, 8693046, 8693048, 8693050, 8693052, 8693054, 8693056, 8693058, 8693060, 8693062		
TPH-DRO CA C10-C28 w/ Si Gel	43	J 32	100

LCS/LCSD

Analysis Name	LCS Spike	LCS	LCS Spike	LCS	LCS %REC	LCS %REC	LCS/LCSD Limits	RPD	RPD Max
	Added	Conc	Added	Conc					
	ug/l	ug/l	ug/l	ug/l					
Batch number: P163281AA	Sample number(s): 8693049, 8693055, 8693059								
Benzene	20	19.44			97		78-120		
Ethylbenzene	20	19.24			96		78-120		
Toluene	20	19.53			98		80-120		
Xylene (Total)	60	57.15			95		80-120		
Batch number: Z163272AA	Sample number(s): 8693042-8693043, 8693045, 8693047, 8693051, 8693053, 8693057, 8693061								
Benzene	20	18.74			94		78-120		
Ethylbenzene	20	18.74			94		78-120		
Toluene	20	19.39			97		80-120		

*- 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: 12/08/2016 07:43

Group Number: 1732337

LCS/LCSD (continued)

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
Xylene (Total)	60	57.64			96		80-120		
Batch number: 16323B20A									
Sample number(s): 8693042-8693043, 8693045, 8693047, 8693049, 8693051, 8693053, 8693055, 8693057, 8693059, 8693061									
TPH-GRO N. CA water C6-C12	1100	1035.4	1100	1036.79	94	94	77-120	0	30
Batch number: 163210023A									
Sample number(s): 8693043, 8693045, 8693047, 8693051, 8693053, 8693055, 8693057, 8693059, 8693061									
TPH-DRO CA C10-C28 w/ Si Gel	1600	1076.32	1600	939.1	67	59	40-105	14	20
Batch number: 163210024A									
Sample number(s): 8693044, 8693046, 8693048, 8693050, 8693052, 8693054, 8693056, 8693058, 8693060, 8693062									
TPH-DRO CA C10-C28 w/ Si Gel	1600	1483.1	1600	1535.58	93	96	40-105	3	20

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: P163281AA										
Sample number(s): 8693049, 8693055, 8693059 UNSPK: P697892										
Benzene	N.D.	20	20.74	20	20.75	104	104	78-120	0	30
Ethylbenzene	N.D.	20	20.77	20	21.26	104	106	78-120	2	30
Toluene	N.D.	20	20.78	20	20.89	104	104	80-120	1	30
Xylene (Total)	N.D.	60	61.15	60	61.39	102	102	80-120	0	30
Batch number: Z163272AA										
Sample number(s): 8693042-8693043, 8693045, 8693047, 8693051, 8693053, 8693057, 8693061 UNSPK: P699956										
Benzene	N.D.	20	18.64	20	20.01	93	100	78-120	7	30
Ethylbenzene	N.D.	20	18.55	20	20.03	93	100	78-120	8	30
Toluene	N.D.	20	19.41	20	20.94	97	105	80-120	8	30
Xylene (Total)	N.D.	60	57.94	60	62.78	97	105	80-120	8	30

*- Outside of specification

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

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

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

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: 12/08/2016 07:43

Group Number: 1732337

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: P163281AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
8693049	97	98	100	103
8693055	98	97	99	113
8693059	98	97	100	103
Blank	98	98	101	99
LCS	98	98	101	100
MS	97	98	100	101
MSD	97	99	100	101
Limits:	80-116	77-113	80-113	78-113

Analysis Name: BTEX 8260B Water
Batch number: Z163272AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
8693042	111	104	92	91
8693043	117*	103	92	88
8693045	117*	104	91	88
8693047	118*	107	92	91
8693051	117*	103	92	89
8693053	108	98	92	100
8693057	121*	106	90	89
8693061	108	98	91	104
Blank	111	102	95	93
LCS	104	100	96	100
MS	107	99	95	102
MSD	106	100	94	102
Limits:	80-116	77-113	80-113	78-113

Analysis Name: TPH-GRO N. CA water C6-C12
Batch number: 16323B20A

	Trifluorotoluene-F
8693042	88
8693043	82
8693045	75
8693047	88
8693049	109
8693051	87
8693053	118
8693055	89
8693057	88
8693059	90
8693061	142*
Blank	88
LCS	86

*- 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: 12/08/2016 07:43

Group Number: 1732337

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: 16323B20A

Trifluorotoluene-F	
LCSD	98
Limits:	63-135

Analysis Name: TPH-DRO CA C10-C28 w/ Si Gel
Batch number: 163210023A

Orthoterphenyl	
8693043	65
8693045	80
8693047	59
8693051	81
8693053	46
8693055	77
8693057	77
8693059	69
8693061	78
Blank	69
LCS	88
LCSD	74
Limits:	42-126

Analysis Name: TPH-DRO CA C10-C28 w/ Si Gel
Batch number: 163210024A

Orthoterphenyl	
8693044	107
8693046	113
8693048	112
8693050	112
8693052	115
8693054	105
8693056	118
8693058	110
8693060	90
8693062	105
Blank	111
LCS	116
LCSD	118
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



11/16/16 - dl

Lancaster Laboratories

Acct. # 10904

For Eurofins Lancaster Laboratories use only
 Group # 1732337 Sample # 8693042-62
 Instructions on reverse side correspond with circled numbers.

1 Client Information				4 Matrix				5 Analyses Requested										6 Remarks							
Facility # <u>307233-OML</u> G-R# <u>385876</u> Global ID# <u>T0600196622</u> Site Address <u>2255 FIRST STREET, LIVERMORE, CA</u> Chevron PM <u>GHDSB</u> Lead Consultant <u>Silva</u> Consultant/Office <u>Griffin-Ryan Inc., 6805 Sierra Court, Suite G, Dublin, CA 94568</u> Consultant Project Mgr. <u>Deanna L. Harding, deanna@grinc.com</u> Consultant Phone # <u>(925) 551-7444 x180</u> Sampler <u>Alex W., Frank T.</u>				Sediment <input type="checkbox"/> <input checked="" type="checkbox"/> Ground <input type="checkbox"/> Potable <input type="checkbox"/> NPDES <input type="checkbox"/> Surface <input type="checkbox"/> Oil <input type="checkbox"/> Air <input type="checkbox"/>				Total Number of Containers <u>2</u> BTEX 8021 <input checked="" type="checkbox"/> 8260 <input 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"/> 8260 Full Scan <input type="checkbox"/> Oxygenates <input type="checkbox"/> Total Lead Method <input type="checkbox"/> Dissolved Lead Method <input type="checkbox"/> <u>TPH-DRO w/sgc COLUMN (8015)</u>										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							
2 Sample Identification		Soil Depth	3 Collected		Grab	Composite	Soil	Water	Oil	Total Number of Containers	BTEX	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	6 Remarks		
QA			10/11/10	/	X		X		2	X	X												Please report DRO w/sgc using 10 grams of silica and also report 1 gram shake results		
MW-1				1015	X		X		8	X	X			X											
MW-2				0805																					
MW-3				1055																					
MW-4				0800																					
MW-5				1055																					
MW-6				0930																					
MW-8				0920																					
MW-9				1015																					
MW-10				0845																					
MW-12				0845																					
7 Turnaround Time Requested (TAT) (please circle)				Relinquished by _____				Date <u>16.11.10</u>		Time <u>1130</u>		Received by _____				Date <u>16.11.10</u>		Time <u>1130</u>							
Standard 5 day 4 day 72 hour 48 hour 24 hours EDF/EDD				Relinquished by _____				Date <u>16.11.10</u>		Time <u>1350</u>		Received by _____				Date <u>16 NOV 16</u>		Time <u>1350</u>							
8 Data Package (circle if required)				Relinquished by Commercial Carrier: _____				Temperature Upon Receipt <u>0.3-1.6</u> °C				Custody Seals Intact? <u>Yes</u> No													
Type I - Full Type VI (Raw Data)				EDD (circle if required) EDFFLAT (default) Other: _____				UPS _____ FedEx _____ Other <u>16 NOV 16</u>				Received by _____ <u>1630</u> <u>FX</u>													

Client: CA Office

2259 First Street

Delivery and Receipt Information

Delivery Method: BASC Arrival Timestamp: 11/11/2016 9:25
 Number of Packages: 6 Number of Projects: 5
 State/Province of Origin: CA

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 Timothy Cubberley (6520) at 11:15 on 11/11/2016

Samples Chilled Details: 2259 First Street

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	1.4	DT	Wet	Y	Bagged	N
2	DT131	0.8	DT	Wet	Y	Bagged	N
3	DT131	1.6	DT	Wet	Y	Bagged	N
4	DT131	1.4	DT	Wet	Y	Bagged	N
5	DT131	1.3	DT	Wet	Y	Bagged	N
6	DT131	0.3	DT	Wet	Y	Bagged	N

Amek Carter

From: US19_USR_AutomatedChangeForms
Sent: Wednesday, November 16, 2016 3:04 PM
To: Amek Carter
Subject: Change Form for Group 1732337 (Chevron - 10904)

Group Number:1732337

Client: Chevron

Account: 10904

Project: 307233

CSR: Loran Carter

Entry Date: 11/12/16 08:40

Change Reasons: *SA entry error*

SDGs:

Change Dates: 11/16/16 14:25

Changing Employee: Loran Carter;

Changed Samples: 8693058; 8693060; 8693062 Standard Group Forms:

Standard Sample Forms:

Recipients:

DP32Contacts@eurofinsus.com; ChadwickHershey@eurofinsus.com; DP36Contacts@eurofinsus.com; eddcontacts@eurofinsus.com;

Sample Changes

Sample = 8693058

Lab Note Added

New = DP 36/32: Sample 8693057 gets split with sample 8693058. Sample 8693058 gets

Lab Note Deleted

Old = DP 36/32: Sample 8693057 gets split with sample 8693058. Sample 8693057 gets

Lab Note Deleted

Old = quick cleanup while sample 8693058 gets 10g column cleanup.

Sample = 8693058; 8693060

Lab Note Added

New = quick cleanup while sample 8693059 gets 10g column cleanup.

Sample = 8693060

Lab Note Added

New = DP 36/32: Sample 8693059 gets split with sample 8693060. Sample 8693060 gets

Lab Note Deleted

Old = DP 36/32: Sample 8693059 gets split with sample 8693060. Sample 8693059 gets

Lab Note Deleted

Old = quick cleanup while sample 8693060 gets 10g column cleanup.

Sample = 8693062

Lab Note Added

New = DP 36/32: Sample 8693061 gets split with sample 8693062. Sample 8693062 gets

Lab Note Added

New = quick cleanup while sample 8693061 gets 10g column cleanup.

Lab Note Deleted

Old = DP 36/32: Sample 8693061 gets split with sample 8693062. Sample 8693061 gets

Lab Note Deleted

Old = quick cleanup while sample 8693062 gets 10g column cleanup.

Explanation of Symbols and Abbreviations

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

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

Laboratory Data Qualifiers:

- B - Analyte detected in the blank
- 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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