Carryl MacLeod
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April 9, 2013

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

Re: Former Texaco Service Station 211253
930 Springtown Boulevard
Livermore, California
ACEHS Case No. RO0189

I accept the First Quarter 2013 Groundwater Monitoring and Sampling Report.

I agree with the conclusions and recommendations presented in this document. The information included is accurate to the best of my knowledge, and appears to meet local agency and Regional Board guidelines. This First Quarter 2013 Groundwater Monitoring and Sampling Report was prepared by Conestoga Rovers & Associates, upon whose assistance and advice I have relied.

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

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

Sincerely,

Carryl MacLeod
Project Manager

Attachment: First Quarter 2013 Groundwater Monitoring and Sampling Report

CONESTOGA-ROVERS
& ASSOCIATES

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

April 9, 2013 Reference No. 060058

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

Re: First Quarter 2013
Groundwater Monitoring and Sampling Report
Former Texaco Station 211253
930 Springtown Boulevard
Livermore, California
ACEH Case RO0189

Dear Mr. Wickham:

Conestoga-Rovers & Associates (CRA) is submitting this *First Quarter 2013 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 Data Package* is included as Attachment A. Current groundwater monitoring and sampling data are presented in Table 1 and shown on Figures 2 through 4. Eurofins Lancaster Laboratories' *Analytical Results* report is included as Attachment B. Historical groundwater monitoring and sampling data are included as Attachment C.

RESULTS OF FIRST QUARTER 2013 EVENT

On February 14, 2013, G-R monitored and sampled wells per the established schedule. Monitoring wells are divided into three zones based on the screen intervals: shallow zone (wells MW-9, MW-11, MW-14, MW-18, MW-19, and MW-20), intermediate zone (wells MW-10, MW-12, MW-13, MW-16, and MW-17), and deep zone (well MW-15). Groundwater elevation and hydrocarbon concentration maps for the shallow, intermediate, and deep zones are illustrated on Figures 2, 3, and 4, respectively.

Results of the current monitoring event indicate the following:

- Groundwater Flow Direction
  - Shallow (Figure 2) Northwest
  - Intermediate (Figure 3) Variable
  - Deep (Figure 4) Not Applicable (only 1 well)
- Approximate Depth to Groundwater
  - Shallow Wells 9 to 13 feet below grade (fbg)
  - Intermediate Wells 10 to 14 fbg
  - Deep Well 10 fbg

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

TABLE A: GROUNDWATER ANALYTICAL DATA

Well ID	*TPHg (µg/L)*	*Benzene (µg/L)*	*Toluene (µg/L)*	*Ethylbenzene (µg/L)*	*Total Xylenes (µg/L)*
ESLs	***100***	***1***	***40***	***30***	***20***
Shallow Wells					
MW-9	**5,200**	<5	<5	**37**	**60**
MW-11	**110**	<0.5	<0.5	<0.5	<0.5
MW-14	**4,200**	**170**	**120**	**61**	**410**
MW-18	**3,000**	**130**	5	**270**	**160**
MW-19	<50	<0.5	<0.5	<0.5	<0.5
MW-20	**2,000**	<5	<5	<5	<5
Intermediate Wells					
MW-10	<50	<0.5	<0.5	<0.5	<0.5
MW-12	**7,700**	**20**	**83**	**160**	**500**
MW-13	**11,000**	**380**	**750**	**31**	**1,700**
MW-16	<50	<0.5	<0.5	<0.5	<0.5
MW-17	<50	<0.5	<0.5	<0.5	<0.5
Deep Well					
MW-15	<50	<0.5	<0.5	<0.5	<0.5

µg/L Micrograms per liter
< Indicates constituent was not detected at or above stated laboratory reporting limit
ESLs Regional Water Quality Control Board, San Francisco Bay Region (RWQCB), *Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater, Interim Final*, November 2007, revised May 2008. – Table F-1a where groundwater is a potential drinking water source
Data in **bold** represent concentrations that exceed applicable ESLs
Semi-annual wells are sampled during the first and third quarters

Between May 2010 and August 2012, light non-aqueous phase liquid (LNAPL) has been detected in shallow well MW-14 at a maximum thickness of 0.34 feet. In May 2012, an absorbent LNAPL sock was installed in well MW-14 as an interim remedial measure. The LNAPL sock is inspected and replaced (if necessary) on a quarterly basis and field data sheets are presented in Attachment A. On February 14, 2013, no evidence of LNAPL was observed on the absorbent sock in MW-14.

CONCLUSIONS AND RECOMMENDATIONS

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

- Based on groundwater elevation data in shallow, intermediate, and deep monitoring wells it appears groundwater monitored at the three depth intervals is hydraulically connected.
- No LNAPL was detected in MW-14 during the first quarter 2013 event.
- Dissolved hydrocarbon concentrations in site wells are generally stable to declining.

Wells MW-9 through MW-16 are sampled semi-annually during the first and third quarters. Given recently installed wells MW-17 through MW-20 have been sampled quarterly for six quarters since installation, CRA recommends that these wells also be sampled semi-annually.

ANTICIPATED FUTURE ACTIVITIES

Groundwater Monitoring
G-R will monitor and sample site wells per the established schedule and inspect and replace (if necessary) the sorbent sock in MW-14. CRA will submit a groundwater monitoring and sampling report.

Soil Vapor Investigation
CRA has completed the installation and sampling of soil vapor wells and is currently awaiting the soil vapor results (samples were submitted on March 14, 2013). An updated conceptual site model will be prepared incorporating the results of the vapor sampling, as well as evaluation of the hydrocarbon distribution in soil and soil vapor, and potential vapor intrusion risks, comparison of site conditions to *Low-Threat Closure Policy* criteria, identification of data gaps, and conclusions and recommendations.

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

Sincerely,

CONESTOGA-ROVERS & ASSOCIATES

PROFESSIONAL GEOLOGIST
GREG BARCLAY
No. 6260
STATE OF CALIFORNIA

Brian Silva

Greg Barclay, PG 6260

CH/cw/21
Encl.

Figure 1	Vicinity Map
Figure 2	Groundwater Elevation and Hydrocarbon Concentration Map – Shallow Zone
Figure 3	Groundwater Elevation and Hydrocarbon Concentration Map – Intermediate Zone
Figure 4	Groundwater Elevation and Hydrocarbon Concentration Map – Deep Zone
Table 1	Groundwater Monitoring and Sampling Data
Attachment A	Monitoring Data Package
Attachment B	Laboratory Analytical Report
Attachment C	Historical Groundwater Monitoring and Sampling Data

cc: Ms. Carryl MacLeod, Chevron *(electronic copy)*
Mr. Joe Zadik
Mr. Ken Hilliard
Mr. Kirk F. Sniff, Esq, Strasburger & Price, LLP

FIGURES

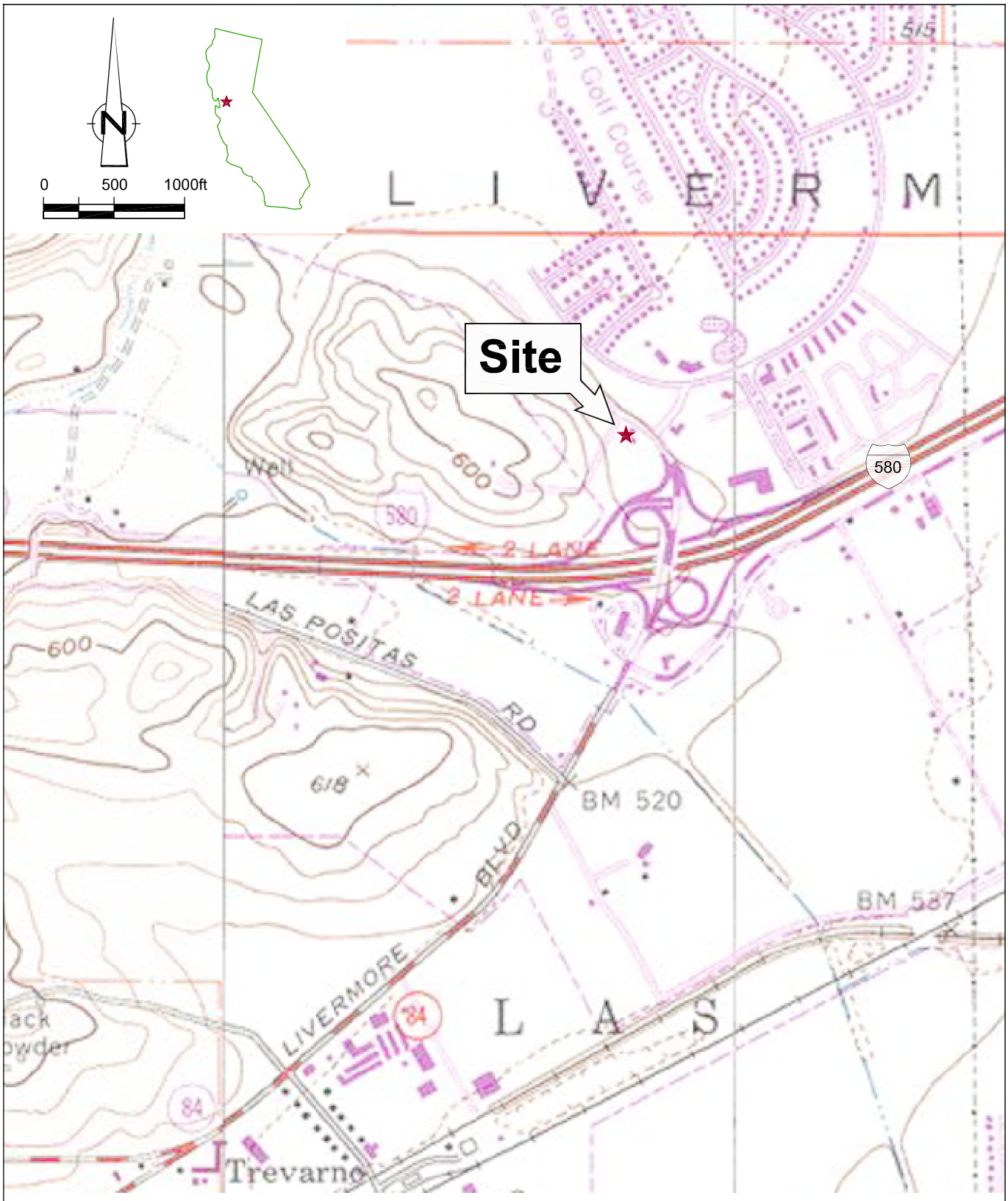
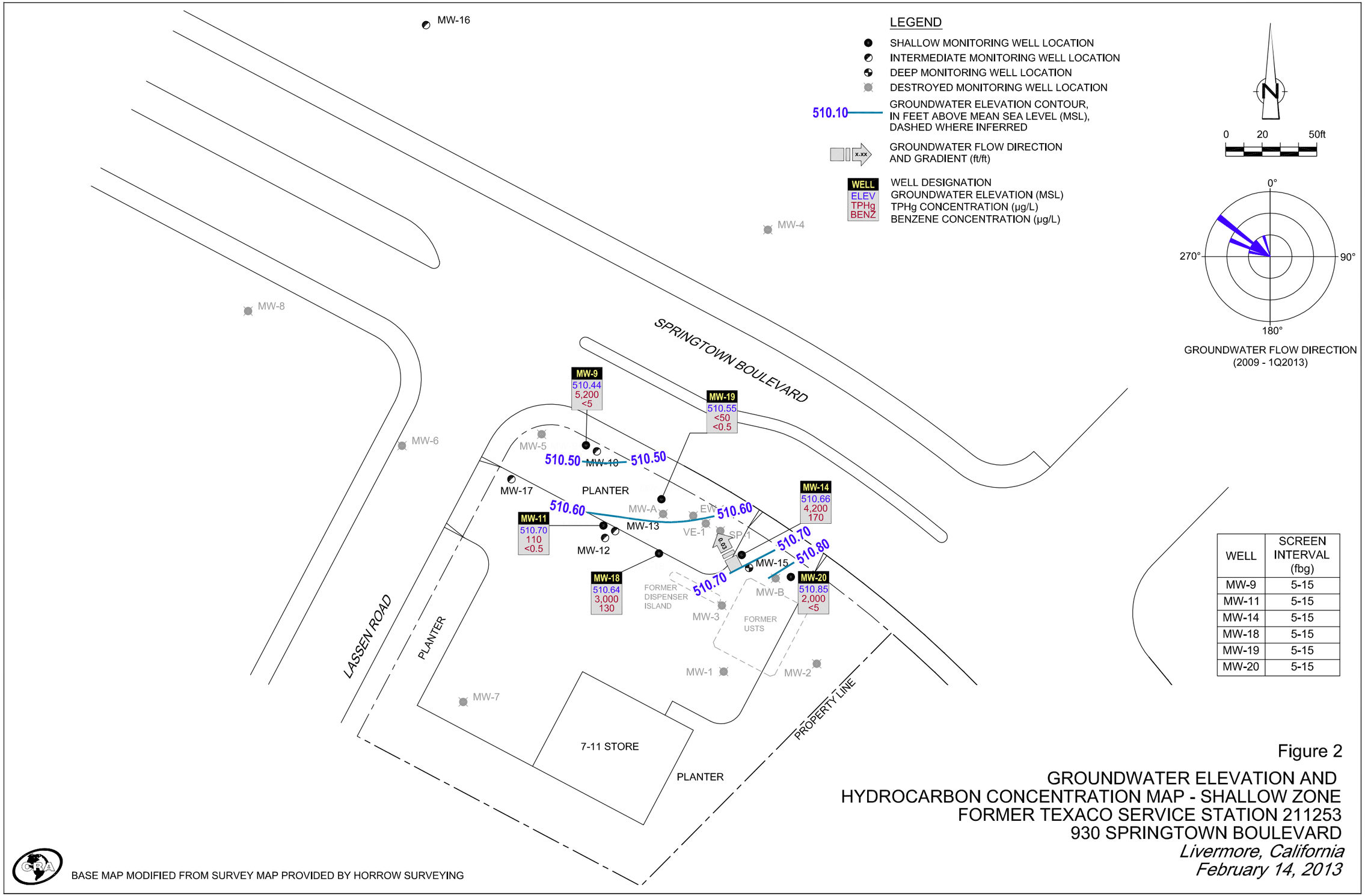


Figure 1

VICINITY MAP
FORMER TEXACO STATION 211253
930 SPRINGTOWN BOULEVARD
Livermore, California



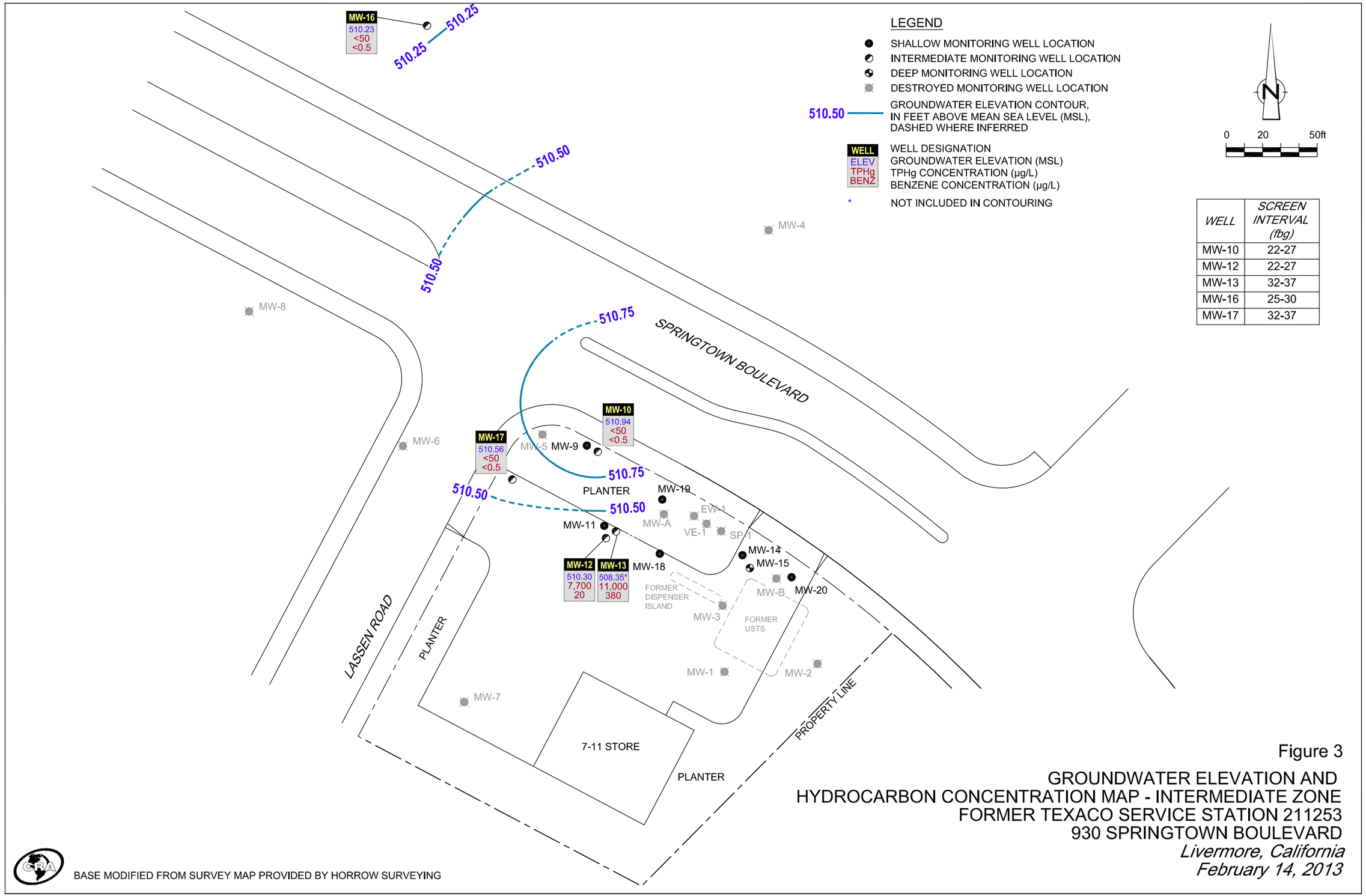
WELL	SCREEN INTERVAL (fbg)
MW-9	5-15
MW-11	5-15
MW-14	5-15
MW-18	5-15
MW-19	5-15
MW-20	5-15

Figure 2

GROUNDWATER ELEVATION AND
HYDROCARBON CONCENTRATION MAP - SHALLOW ZONE
FORMER TEXACO SERVICE STATION 211253
930 SPRINGTOWN BOULEVARD
Livermore, California
February 14, 2013

BASE MAP MODIFIED FROM SURVEY MAP PROVIDED BY HORROW SURVEYING

060058-95(021)GN-EM002 MAR 18/2013

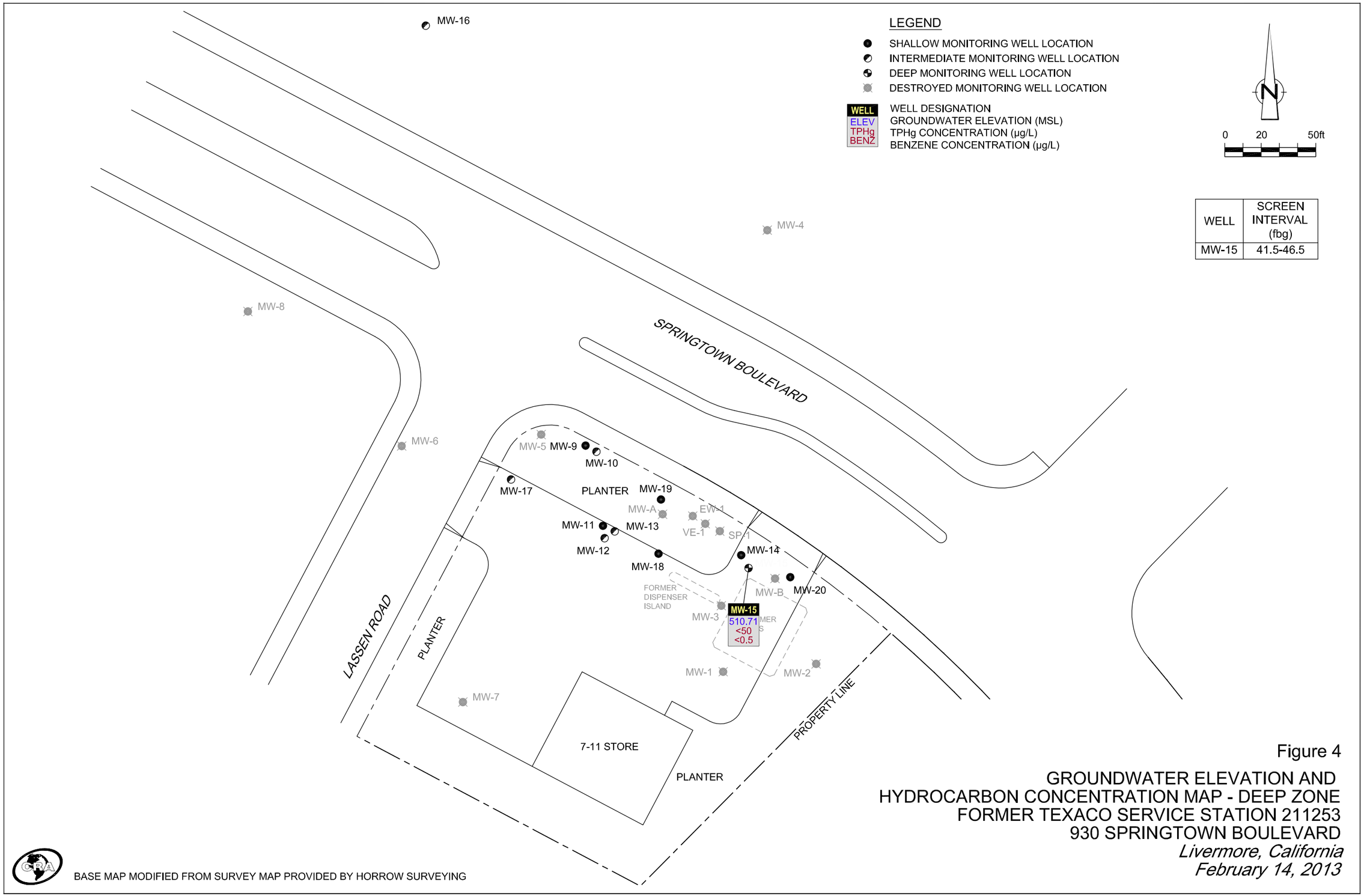


WELL	SCREEN INTERVAL (fbg)
MW-10	22-27
MW-12	22-27
MW-13	32-37
MW-16	25-30
MW-17	32-37

Figure 3

GROUNDWATER ELEVATION AND
HYDROCARBON CONCENTRATION MAP - INTERMEDIATE ZONE
FORMER TEXACO SERVICE STATION 211253
930 SPRINGTOWN BOULEVARD
Livermore, California
February 14, 2013

BASE MODIFIED FROM SURVEY MAP PROVIDED BY HORROW SURVEYING



WELL	SCREEN INTERVAL (fbg)
MW-15	41.5-46.5

Figure 4

GROUNDWATER ELEVATION AND
HYDROCARBON CONCENTRATION MAP - DEEP ZONE
FORMER TEXACO SERVICE STATION 211253
930 SPRINGTOWN BOULEVARD
Livermore, California
February 14, 2013

BASE MAP MODIFIED FROM SURVEY MAP PROVIDED BY HORROW SURVEYING

060058-95(021)GN-EM004 MAR 18/2013

TABLE

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA
FORMER TEXACO SERVICE STATION 211253
930 SPRINGTOWN BOULEVARD
LIVERMORE, CALIFORNIA

							HYDROCARBONS	*PRIMARY VOCS*				*GENERAL CHEMISTRY*			
Location	Date	*TOC*	*DTW*	*GWE*	*LNAPLT*	*LNAPL REMOVED*	*TPH-GRO*	*B*	*T*	*E*	*X*	*Methane*	*Ferrous iron*	*Nitrate as Nitrogen*	*Sulfate*
	Units	*ft*	*ft*	*ft-amsl*	*ft*	*gallons*	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-9 [2]	08/24/2010	523.14	13.58	509.56	-	-	3,500	6	8	180	79	-	-	-	-
MW-9 [2]	01/31/2011	523.14	12.31	510.83	-	-	68	<0.5	<0.5	3	<0.5	-	-	-	-
MW-9 [2]	08/09/2011	523.14	12.01	511.13	-	-	54	<0.5	<0.5	<0.5	<0.5	-	-	-	-
MW-9 [2]	02/09/2012	523.14	13.05	510.09	-	-	5,300	6	7	250	120	-	-	-	-
MW-9 [2, 5]	05/10/2012	523.14	12.52	510.62	-	-	-	-	-	-	-	-	-	-	-
MW-9 [2, 5]	08/22/2012	523.14	13.45	509.69	-	-	1,300	<5	<5	8	7	2,900	9,200	<250	24,000
MW-9 [2, 5]	11/29/2012	523.14	13.30	509.84	-	-	-	-	-	-	-	-	-	-	-
MW-9 [2, 5]	**02/14/2013**	**523.14**	**12.70**	**510.44**	**-**	**-**	**5,200**	**<5**	**<5**	**37**	**60**	**-**	**-**	**-**	**-**
MW-10 [3]	08/24/2010	523.25	13.07	510.18	-	-	1,300	<0.5	<0.5	2	<0.5	-	-	-	-
MW-10 [3]	01/31/2011	523.25	11.92	511.33	-	-	250	<0.5	<0.5	<0.5	<0.5	-	-	-	-
MW-10 [3]	08/09/2011	523.25	11.85	511.40	-	-	300	<0.5	<0.5	<0.5	<0.5	-	-	-	-
MW-10 [3]	02/09/2012	523.25	12.62	510.63	-	-	140	<0.5	<0.5	<0.5	<0.5	-	-	-	-
MW-10 [3, 5]	05/10/2012	523.25	12.26	510.99	-	-	-	-	-	-	-	-	-	-	-
MW-10 [3, 5]	08/22/2012	523.25	13.03	510.22	-	-	600	2	0.7	2	2	670	580	<250	24,400
MW-10 [3, 5]	11/29/2012	523.25	12.89	510.36	-	-	-	-	-	-	-	-	-	-	-
MW-10 [3, 5]	**02/14/2013**	**523.25**	**12.31**	**510.94**	**-**	**-**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**-**	**-**	**-**	**-**
MW-11 [2]	08/24/2010	523.42	13.80	509.62	-	-	2,000 J	6	2	9	5	-	-	-	-
MW-11 [2]	01/31/2011	523.42	12.35	511.07	-	-	790	1	<0.5	5	3	-	-	-	-
MW-11 [2]	08/09/2011	523.42	12.06	511.36	-	-	130	<0.5	<0.5	0.9	<0.5	-	-	-	-
MW-11 [2]	02/09/2012	523.42	13.06	510.36	-	-	220	<0.5	<0.5	<0.5	<0.5	-	-	-	-
MW-11 [2, 5]	05/10/2012	523.42	12.58	510.84	-	-	-	-	-	-	-	-	-	-	-
MW-11 [2, 5]	08/22/2012	523.42	13.50	509.92	-	-	510	<0.5	<0.5	<0.5	<0.5	760	1,400	<250	59,500
MW-11 [2, 5]	11/29/2012	523.42	13.32	510.10	-	-	-	-	-	-	-	-	-	-	-
MW-11 [2, 5]	**02/14/2013**	**523.42**	**12.72**	**510.70**	**-**	**-**	**110**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**-**	**-**	**-**	**-**
MW-12 [3]	08/24/2010	523.12	12.84	510.28	-	-	18,000	210	650	330	1,900	-	-	-	-
MW-12 [3]	01/31/2011	523.12	12.47	510.65	-	-	9,600	64	180	180	400	-	-	-	-

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA
FORMER TEXACO SERVICE STATION 211253
930 SPRINGTOWN BOULEVARD
LIVERMORE, CALIFORNIA

							HYDROCARBONS	*PRIMARY VOCS*				*GENERAL CHEMISTRY*			
Location	Date	*TOC*	*DTW*	*GWE*	*LNAPLT*	*LNAPL REMOVED*	*TPH-GRO*	*B*	*T*	*E*	*X*	*Methane*	*Ferrous iron*	*Nitrate as Nitrogen*	*Sulfate*
	Units	*ft*	*ft*	*ft-amsl*	*ft*	*gallons*	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-12 [3]	08/09/2011	523.12	12.19	510.93	-	-	9,000	71	140	170	580	-	-	-	-
MW-12 [3]	02/09/2012	523.12	13.11	510.01	-	-	8,700	85	130	170	590	-	-	-	-
MW-12 [3, 5]	05/10/2012	523.12	12.71	510.41	-	-	-	-	-	-	-	-	-	-	-
MW-12 [3, 5]	08/22/2012	523.12	13.44	509.68	-	-	8,500	<5	12	120	160	2,000	6,400	<250	3,200
MW-12 [3, 5]	11/29/2012	523.12	13.35	509.77	-	-	-	-	-	-	-	-	-	-	-
MW-12 [3, 5]	**02/14/2013**	**523.12**	**12.82**	**510.30**	**-**	**-**	**7,700**	**20**	**83**	**160**	**500**	**-**	**-**	**-**	**-**
MW-13 [3]	08/24/2010	520.88	13.69	507.19	-	-	13,000	810	710	76	660	-	-	-	-
MW-13 [3]	01/31/2011	520.88	12.21	508.67	-	-	22,000	1,600	1,600	270	1,600	-	-	-	-
MW-13 [3]	08/09/2011	520.88	11.91	508.97	-	-	12,000	1,200	820	120	710	-	-	-	-
MW-13 [3]	02/09/2012	520.88	12.83	508.05	-	-	18,000	1,600	3,700	370	2,200	-	-	-	-
MW-13 [3, 5]	05/10/2012	520.88	12.44	508.44	-	-	-	-	-	-	-	-	-	-	-
MW-13 [3, 5]	08/22/2012	520.88	13.19	507.69	-	-	35,000	2,000	5,600	340	4,500	8,500	1,200	<250	2,600
MW-13 [3, 5]	11/29/2012	520.88	13.06	507.82	-	-	-	-	-	-	-	-	-	-	-
MW-13 [3, 5]	**02/14/2013**	**520.88**	**12.53**	**508.35**	**-**	**-**	**11,000**	**380**	**750**	**31**	**1,700**	**-**	**-**	**-**	**-**
MW-14 [2]	08/24/2010 [1,**]	520.88	10.36	510.75	0.29	0.00	-	-	-	-	-	-	-	-	-
MW-14 [2]	01/31/2011 [1,**]	520.88	9.96	511.12	0.25	0.00	-	-	-	-	-	-	-	-	-
MW-14 [2]	08/09/2011 [1,**]	520.88	9.67	511.35	0.17	0.00	-	-	-	-	-	-	-	-	-
MW-14 [2]	02/09/2012 [1,**]	520.88	10.69	510.46	0.34	0.00	-	-	-	-	-	-	-	-	-
MW-14 [2, 5]	05/10/2012 [1,**]	520.88	10.18	510.91	0.26	0.00	-	-	-	-	-	-	-	-	-
MW-14 [2, 5]	05/30/2012	520.88					Sorbent Sock Installed								
MW-14 [2, 5]	06/14/2012**	520.88	10.36	510.65	0.16	1.25	-	-	-	-	-	-	-	-	-
MW-14 [2, 5]	06/25/2012**	520.88	10.44	510.47	0.04	0.98	-	-	-	-	-	-	-	-	-
MW-14 [2, 5]	07/11/2012**	520.88	10.52	510.41	0.06	1.34	-	-	-	-	-	-	-	-	-
MW-14 [2, 5]	07/24/2012**	520.88	10.70	510.20	0.02	0.45	-	-	-	-	-	-	-	-	-
MW-14 [2, 5]	08/08/2012**	520.88	13.74	507.16	0.03	0.46	-	-	-	-	-	-	-	-	-
MW-14 [2, 5]	08/22/2012	520.88	10.78	510.10	-	0.33	22,000	890	990	600	2,600	1,200	1,000	<250	145,000
MW-14 [2, 5]	09/04/2012	520.88	10.82	510.06	-	0.16	-	-	-	-	-	-	-	-	-

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA
FORMER TEXACO SERVICE STATION 211253
930 SPRINGTOWN BOULEVARD
LIVERMORE, CALIFORNIA

							HYDROCARBONS	*PRIMARY VOCS*				*GENERAL CHEMISTRY*			
Location	Date	*TOC*	*DTW*	*GWE*	*LNAPLT*	*LNAPL REMOVED*	*TPH-GRO*	*B*	*T*	*E*	*X*	*Methane*	*Ferrous iron*	*Nitrate as Nitrogen*	*Sulfate*
	Units	*ft*	*ft*	*ft-amsl*	*ft*	*gallons*	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-14 [2, 5]	09/21/2012	520.88	10.69	510.19	-	-	-	-	-	-	-	-	-	-	-
MW-14 [2, 5]	10/02/2012	520.88	10.65	510.23	-	-	-	-	-	-	-	-	-	-	-
MW-14 [2, 5]	10/17/2012	520.88	10.70	510.18	-	-	-	-	-	-	-	-	-	-	-
MW-14 [2, 5]	10/29/2012	520.88	10.62	510.26	-	-	-	-	-	-	-	-	-	-	-
MW-14 [2, 5]	11/29/2012	520.88	10.68	510.20	-	-	-	-	-	-	-	-	-	-	-
MW-14 [2, 5]	**02/14/2013**	**520.88**	**10.22**	**510.66**	**-**	**-**	**4,200**	**170**	**120**	**61**	**410**	**-**	**-**	**-**	**-**
MW-15 [4]	08/24/2010	520.87	10.81	510.06	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-
MW-15 [4]	01/31/2011	520.87	9.86	511.01	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-
MW-15 [4]	08/09/2011	520.87	9.56	511.31	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-
MW-15 [4]	02/09/2012	520.87	10.44	510.43	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-
MW-15 [4, 5]	05/10/2012	520.87	10.05	510.82	-	-	-	-	-	-	-	-	-	-	-
MW-15 [4, 5]	08/22/2012	520.87	10.87	510.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<10	2,100	267,000
MW-15 [4, 5]	11/29/2012	520.87	10.70	510.17	-	-	-	-	-	-	-	-	-	-	-
MW-15 [4, 5]	**02/14/2013**	**520.87**	**10.16**	**510.71**	**-**	**-**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**-**	**-**	**-**	**-**
MW-16 [3]	08/24/2010	520.50	11.07	509.43	-	-	68	<0.5	<0.5	<0.5	<0.5	-	-	-	-
MW-16 [3]	01/31/2011	520.50	9.99	510.51	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-
MW-16 [3]	08/09/2011	520.50	9.59	510.91	-	-	66	<0.5	<0.5	<0.5	<0.5	-	-	-	-
MW-16 [3]	02/09/2012	520.50	10.62	509.88	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-
MW-16 [3, 5]	05/10/2012	520.50	10.18	510.32	-	-	-	-	-	-	-	-	-	-	-
MW-16 [3, 5]	08/22/2012	520.50	11.08	509.42	-	-	<50	<0.5	<0.5	<0.5	<0.5	1,000	16	590	49,400
MW-16 [3, 5]	11/29/2012	520.50	10.86	509.64	-	-	-	-	-	-	-	-	-	-	-
MW-16 [3, 5]	**02/14/2013**	**520.50**	**10.27**	**510.23**	**-**	**-**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**-**	**-**	**-**	**-**
MW-17 [3]	02/07/2012	524.81	14.50	510.31	-	-	-	-	-	-	-	-	-	-	-
MW-17 [3]	02/09/2012	524.81	14.58	510.23	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-
MW-17 [3]	05/10/2012	524.81	14.10	510.71	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-
MW-17 [3]	08/22/2012	524.81	14.54	510.27	-	-	<50	<0.5	<0.5	<0.5	<0.5	25	<10	3,700	77,400

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA
FORMER TEXACO SERVICE STATION 211253
930 SPRINGTOWN BOULEVARD
LIVERMORE, CALIFORNIA

							HYDROCARBONS	*PRIMARY VOCS*				*GENERAL CHEMISTRY*			
Location	Date	*TOC*	*DTW*	*GWE*	*LNAPLT*	*LNAPL REMOVED*	*TPH-GRO*	*B*	*T*	*E*	*X*	*Methane*	*Ferrous iron*	*Nitrate as Nitrogen*	*Sulfate*
	Units	*ft*	*ft*	*ft-amsl*	*ft*	*gallons*	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-17 [3]	11/29/2012	524.81	14.75	510.06	-	-	<50	<0.5	<0.5	<0.5	<0.5	39	77	3,200	67,900
MW-17 [3]	**02/14/2013**	**524.81**	**14.25**	**510.56**	**-**	**-**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**-**	**-**	**-**	**-**
MW-18 [2]	02/07/2012	522.40	12.01	510.39	-	-	-	-	-	-	-	-	-	-	-
MW-18 [2]	02/09/2012	522.40	12.06	510.34	-	-	12,000	200	1,300	68	2,200	-	-	-	-
MW-18 [2]	05/10/2012	522.40	11.60	510.80	-	-	6,700	220	390	380	720	-	-	-	-
MW-18 [2]	08/22/2012	522.40	12.50	509.90	-	-	3,600	80	310	170	550	240	2,500	580	143,000
MW-18 [2]	11/29/2012	522.40	12.36	510.04	-	-	2,000	44	25	96	190	320	2,400	<250	117,000
MW-18 [2]	**02/14/2013**	**522.40**	**11.76**	**510.64**	**-**	**-**	**3,000**	**130**	**5**	**270**	**160**	**-**	**-**	**-**	**-**
MW-19 [2]	02/07/2012	522.63	12.30	510.33	-	-	-	-	-	-	-	-	-	-	-
MW-19 [2]	02/09/2012	522.63	12.39	510.24	-	-	6,700	4	<3	18	35	-	-	-	-
MW-19 [2]	05/10/2012	522.63	11.92	510.71	-	-	1,500	<0.5	<0.5	0.7	0.9	-	-	-	-
MW-19 [2]	08/22/2012	522.63	12.80	509.83	-	-	1,300	<0.5	<0.5	17	2	1,900	820	<250	32,900
MW-19 [2]	11/29/2012	522.63	12.64	509.99	-	-	58	<0.5	<0.5	<0.5	<0.5	15	1,800	<250	41,200
MW-19 [2]	**02/14/2013**	**522.63**	**12.08**	**510.55**	**-**	**-**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**-**	**-**	**-**	**-**
MW-20 [2]	02/07/2012	520.28	9.60	510.68	-	-	-	-	-	-	-	-	-	-	-
MW-20 [2]	02/09/2012	520.28	9.68	510.60	-	-	9,100	3	94	200	600	-	-	-	-
MW-20 [2]	05/10/2012	520.28	9.32	510.96	-	-	3,900	<5	28	42	230	-	-	-	-
MW-20 [2]	08/22/2012	520.28	10.12	510.16	-	-	4,800	<5	42	120	320	37	2,800	<250	234,000
MW-20 [2]	11/29/2012	520.28	9.99	510.29	-	-	4,200	<0.5	9	41	95	23	11,100	<250	131,000
MW-20 [2]	**02/14/2013**	**520.28**	**9.43**	**510.85**	**-**	**-**	**2,000**	**<5**	**<5**	**<5**	**<5**	**-**	**-**	**-**	**-**
QA	08/24/2010	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-
QA	01/31/2011	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-
QA	08/09/2011	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-
QA	02/09/2012	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-
QA	05/10/2012	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA
FORMER TEXACO SERVICE STATION 211253
930 SPRINGTOWN BOULEVARD
LIVERMORE, CALIFORNIA

							HYDROCARBONS	*PRIMARY VOCS*				*GENERAL CHEMISTRY*			
Location	Date	*TOC*	*DTW*	*GWE*	*LNAPLT*	*LNAPL REMOVED*	*TPH-GRO*	*B*	*T*	*E*	*X*	*Methane*	*Ferrous iron*	*Nitrate as Nitrogen*	*Sulfate*
	Units	*ft*	*ft*	*ft-amsl*	*ft*	*gallons*	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
QA	08/22/2012	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-
QA	11/29/2012	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-
QA	**02/14/2013**	**-**	**-**	**-**	**-**	**-**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**-**	**-**	**-**	**-**

Abbreviations and Notes:

TOC = Top of casing

DTW = Depth to water

GWE = Groundwater elevation

(ft-amsl) = Feet above mean sea level

ft = Feet

µg/L = Micrograms per Liter

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 above laboratory method detection limit

J = Estimated concentration

* TOC elevations were surveyed on July 22, 2009, by Morrow Surveying. Vertical datum is NAVD 88 from GPS Observations.

** GWE was corrected for the presence of LNAPL; correction factor: [(TOC - DTW) + (LNAPLT x 0.80)].

1 Not sampled due to the presence of LNAPL.

2 Shallow well

3 Intermediate well

4 Deep well

5 Sampled semi-annually during the first and third quarters

ATTACHMENT A

MONITORING DATA PACKAGE

GETTLER-RYAN INC.

TRANSMITTAL

February 21, 2013
G-R #385867

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

FROM: Deanna L. Harding
Project Coordinator
Gettler-Ryan Inc.
6747 Sierra Court, Suite J
Dublin, California 94568

RE: Former Texaco Service Station
930 Springtown Blvd.
Livermore, California
(Site #211253)

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DESCRIPTION
VIA PDF	Groundwater Monitoring and Sampling Data Package **First Quarter Event of February 14, 2013**

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/211253

WELL CONDITION STATUS SHEET

Client/Facility #: **Chevron #211253**
Site Address: **930 Springtown Blvd.**
City: **Livermore, CA**

Job #: **385867**
Event Date: 2/14/13
Sampler: JW

WELL ID	Vault Frame Condition	Gasket/O-Ring (M) Missing (R) Replaced	BOLTS (M) Missing (R) Replaced	Bolt Flanges B=Broken S=Stripped R=Retap	APRON Condition C=Cracked B=Broken G=Gone	Grout Seal (Deficient) inches from TOC	Casing (Condition prevents tight cap seal)	REPLACE LOCK Y / N	REPLACE CAP Y / N	WELL VAULT Manufacture/Size/ # of Bolts	Pictures Taken Y / N
MW-9	OK							N	N	12" emco	N
MW-10	OK										
MW-11	OK										
MW-12	OK										
MW-13	OK										
MW-14	OK										
MW-15	OK										
MW-16	OK							Y	Y 4"		
MW-17	OK							N	N		
MW-18	OK										
MW-19	OK										
MW-20	OK										

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.

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 Evergreen Oil located in Newark, California.

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #211253
Site Address: 930 Springtown Blvd.
City: Livermore, CA
Job Number: 385867
Event Date: 2/14/13 (inclusive)
Sampler: JH

Well ID: MW- 9
Well Diameter: 4
Total Depth: 14.47 ft.
Depth to Water: 12.70 ft.
Date Monitored: 2/14/13

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

☐ Check if water column is less then 0.50 ft.

1.77 xVF .66 = 1.16 x3 case volume = Estimated Purge Volume: 3.50 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 13.05

Purge Equipment:
- Disposable Bailer: X
- Stainless Steel Bailer: ____
- Stack Pump: ____
- Suction Pump: ____
- Grundfos: ____
- Peristaltic Pump: ____
- QED Bladder Pump: ____
- Other: ____

Sampling Equipment:
- Disposable Bailer: X
- Pressure Bailer: ____
- Metal Filters: ____
- Peristaltic Pump: ____
- QED Bladder Pump: ____
- Other: ____

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

Start Time (purge): 0925
Sample Time/Date: 0955 / 2/14/13
Approx. Flow Rate: — gpm.
Did well de-water? No If yes, Time: ____ Volume: ____ gal.
Weather Conditions: Clear
Water Color: Cloudy Odor: (Y) / N Strong
Sediment Description: Little
DTW @ Sampling: 12.96

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - (S))	Temperature ((C) / F)	D.O. (mg/L)	ORP (mV)
0928	1	7.25	806	17.5		
0932	2	7.19	798	17.3		
0937	3.5	7.11	824	17.2		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW- 9	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)

COMMENTS:

Add/Replaced Lock: ____ Add/Replaced Plug: ____ Add/Replaced Bolt: ____

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #211253 Job Number: 385867
Site Address: 930 Springtown Blvd. Event Date: 2/14/13 (inclusive)
City: Livermore, CA Sampler: JH

Well ID MW-10 Date Monitored: 2/14/13
Well Diameter 4
Total Depth 26.42 ft.
Depth to Water 12.31 ft. ☐ Check if water column is less then 0.50 ft.

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

14.11 xVF .66 = 9.31 x3 case volume = Estimated Purge Volume: 27.93 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 15.13

Purge Equipment:
Disposable Bailer
Stainless Steel Bailer
Stack Pump X
Suction Pump
Grundfos
Peristaltic Pump
QED Bladder Pump
Other:

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

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

Start Time (purge): 0910 Weather Conditions: Clear
Sample Time/Date: 1010 / 2/14/13 Water Color: Clear Odor: Y / N
Approx. Flow Rate: 3 gpm. Sediment Description: None
Did well de-water? Yes If yes, Time: 0914 Volume: 12 gal. DTW @ Sampling: 12.88

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
0913	9	7.37	729	17.5		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-16	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)

COMMENTS:

Add/Replaced Lock: Add/Replaced Plug: Add/Replaced Bolt:

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #211253 | Job Number: 385867
Site Address: 930 Springtown Blvd. | Event Date: 2/14/13 (inclusive)
City: Livermore, CA | Sampler: JH

Well ID: MW-11 | Date Monitored: 2/14/13
Well Diameter: 4
Total Depth: 14.60 ft.
Depth to Water: 12.72 ft.

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

☐ Check if water column is less then 0.50 ft.

1.88 xVF .66 = 1.24 x3 case volume = Estimated Purge Volume: 3.72 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 13.09

Purge Equipment:

Disposable Bailer	X
Stainless Steel Bailer	
Stack Pump	
Suction Pump	
Grundfos	
Peristaltic Pump	
QED Bladder Pump	
Other:	

Sampling Equipment:

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

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

Start Time (purge): 1135 | Weather Conditions: Clear
Sample Time/Date: 1200 / 2/14/13 | Water Color: cloudy | Odor: Y / (N)
Approx. Flow Rate: — gpm. | Sediment Description: None
Did well de-water? No | If yes, Time: _____ Volume: _____ gal. | DTW @ Sampling: 12.58

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - (µS))	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
1138	1	7.04	589	17.8		
1142	2	6.83	605	17.7		
1146	3.5	6.77	627	17.3		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-11	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)

COMMENTS: _____

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #211253 Job Number: 385867
Site Address: 930 Springtown Blvd. Event Date: 2/14/13 (inclusive)
City: Livermore, CA Sampler: JH

Well ID MW-12 Date Monitored: 2/14/13
Well Diameter 4
Total Depth 26.66 ft.
Depth to Water 12.82 ft.

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

☐ Check if water column is less then 0.50 ft.

13.84 xVF .66 = 9.13 x3 case volume = Estimated Purge Volume: 27.40 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 15.58

Purge Equipment:

Disposable Bailer	
Stainless Steel Bailer	
Stack Pump	X
Suction Pump	
Grundfos	
Peristaltic Pump	
QED Bladder Pump	
Other:	

Sampling Equipment:

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

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

Start Time (purge): 1120 Weather Conditions: Clear
Sample Time/Date: 1240 / 2/14/13 Water Color: cloudy Odor: (Y) N Low
Approx. Flow Rate: 3 gpm. Sediment Description: Low
Did well de-water? Yes (No) If yes, Time: 1124 Volume: 12 gal. DTW @ Sampling: 13.65

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - (µS))	Temperature ((C) / F)	D.O. (mg/L)	ORP (mV)
1123	9	7.68	671	17.8		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-12	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)

COMMENTS:

Add/Replaced Lock: Add/Replaced Plug: Add/Replaced Bolt:

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #211253 | Job Number: 385867
Site Address: 930 Springtown Blvd. | Event Date: 2/14/13 (inclusive)
City: Livermore, CA | Sampler: JH

Well ID: MW-13 | Date Monitored: 2/14/13
Well Diameter: 4
Total Depth: 36.62 ft.
Depth to Water: 12.53 ft.

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

☐ Check if water column is less then 0.50 ft.

24.09 xVF .66 = 15.89 x3 case volume = Estimated Purge Volume: 47.69 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 17.34

Purge Equipment:

Disposable Bailer	
Stainless Steel Bailer	
Stack Pump	X
Suction Pump	
Grundfos	
Peristaltic Pump	
QED Bladder Pump	
Other:	

Sampling Equipment:

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

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

Start Time (purge): 1025 | Weather Conditions: Clear
Sample Time/Date: 1105 / 2/14/13 | Water Color: Cloudy | Odor: Y (N) Light
Approx. Flow Rate: 2 gpm. | Sediment Description: Light
Did well de-water? No If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 14.68

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
1033	16	7.82	879	18.2		
1041	32	7.70	834	18.1		
1049	48	7.53	830	17.9		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-13	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)

COMMENTS: 12" emco

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #211253 Job Number: 385867
Site Address: 930 Springtown Blvd. Event Date: 2/14/13 (inclusive)
City: Livermore, CA Sampler: JH

Well ID MW-14 Date Monitored: 2/14/13
Well Diameter 4
Total Depth 14.40 ft.
Depth to Water 10.22 ft.

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

☐ Check if water column is less then 0.50 ft.

4.18 xVF .66 = 2.75 x3 case volume = Estimated Purge Volume: 8.27 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 11.05

Purge Equipment:
Disposable Bailer X
Stainless Steel Bailer
Stack Pump
Suction Pump
Grundfos
Peristaltic Pump
QED Bladder Pump
Other:

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

Time Started: (2400 hrs)
Time Completed: (2400 hrs)
Depth to Product: N/A ft
Depth to Water: ft
Hydrocarbon Thickness: 0 ft
Visual Confirmation/Description: Sheen in well
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: gal
Amt Removed from Well: gal
Water Removed:

Start Time (purge): 1350 Weather Conditions: Clear
Sample Time/Date: 1440 / 2/14/13 Water Color: clear Odor: (Y) / N STRong
Approx. Flow Rate: — gpm. Sediment Description: Low
Did well de-water? NO If yes, Time: Volume: gal. DTW @ Sampling: 11.00

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm (µS))	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
1358	2.5	7.18	874	18.3		
1407	5.0	7.04	899	18.4		
1416	8.0	7.01	923	18.5		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW- 14	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)

COMMENTS: Sock in Well - NO DRum on site. Not able to Remove and install New Sock.

Add/Replaced Lock: Add/Replaced Plug: Add/Replaced Bolt:

CONESTOGA-ROVERS & ASSOCIATES

SORBENT SOCK EVALUATION FORM

Name: J. Hess	Date: 2/14/13	Project Number: 21253
Site Address: 930 Springfield Rd Livermore CA	Well ID: MW-14	Weather: Clear

1) Time absorbent sock removed from well for inspection: 0645

2) Condition of sock:

a) Length of sock showing product saturation: 3"

b) Length of sock showing dryness: 27"

c) Color of sock showing product saturation: Lt Brown

d) Weight of the removed sock: 12.7 oz

e) Weight of a new/clean/dry sock: 10 oz

f) Difference in weight: (D-E) to 0.01 ounces. 2.7 oz

3) Picture of sock removed from well taken: ☒ ✓

4) Sock removed from well deposited into a waste drum: ☐

-Is drum labeled? How full is drum? (%)

5) After at least 15 minutes after removing the sock from the well, measure (to 0.01ft) from the top of the well casing. :

a) Depth to product: 0

b) Depth to water: 10.27

c) Thickness of product: (b-a) —

) Size and type of sock installed 4/4

) Comments: No Drum on site - old sock Reinstalled Per L.C.

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #211253 | Job Number: 385867
Site Address: 930 Springtown Blvd. | Event Date: 2/14/13 (inclusive)
City: Livermore, CA | Sampler: JV

Well ID: MW-15 | Date Monitored: 2/14/13
Well Diameter: 4
Total Depth: 45.90 ft.
Depth to Water: 10.16 ft.

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

☐ Check if water column is less then 0.50 ft.

35.74 xVF .66 = 23.58 x3 case volume = Estimated Purge Volume: 70.76 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 17.30

Purge Equipment:

Disposable Bailer	
Stainless Steel Bailer	
Stack Pump	X
Suction Pump	
Grundfos	
Peristaltic Pump	
QED Bladder Pump	
Other:	

Sampling Equipment:

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

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

Start Time (purge): 1455 | Weather Conditions: Clear
Sample Time/Date: 1550 / 2/14/13 | Water Color: Clear Odor: Y / (N)
Approx. Flow Rate: 2 gpm. | Sediment Description: None
Did well de-water? NV If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 12.57

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
1507	24	7.25	682	18.6		
1519	48	7.20	675	18.5		
1530	70	7.06	631	18.2		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-15	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)

COMMENTS:

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #211253 | Job Number: 385867
Site Address: 930 Springtown Blvd. | Event Date: 2/14/13 (inclusive)
City: Livermore, CA | Sampler: JH

Well ID: MW-16 | Date Monitored: 2/14/13
Well Diameter: 4
Total Depth: 29.19 ft.
Depth to Water: 10.27 ft. ☐ Check if water column is less then 0.50 ft.

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

18.92 xVF .66 = 12.48 x3 case volume = Estimated Purge Volume: 37.46 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 14.05

Purge Equipment:

Disposable Bailer	
Stainless Steel Bailer	
Stack Pump	X
Suction Pump	
Grundfos	
Peristaltic Pump	
QED Bladder Pump	
Other:	

Sampling Equipment:

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

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

Start Time (purge): 0710 | Weather Conditions: Clear
Sample Time/Date: 0750 / 2/14/13 | Water Color: Cloudy | Odor: Y / (N)
Approx. Flow Rate: 2 gpm. | Sediment Description: Low
Did well de-water? No | If yes, Time: _____ Volume: _____ gal. | DTW @ Sampling: 12.80

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - (µS))	Temperature ((C) / F)	D.O. (mg/L)	ORP (mV)
0716	12	7.25	1025	17.6		
0722	24	7.08	1036	17.8		
0729	38	7.02	1042	17.9		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-16	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)

COMMENTS: 12" emco

Add/Replaced Lock: X | Add/Replaced Plug: X 4" | Add/Replaced Bolt: _____

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #211253 | Job Number: 385867
Site Address: 930 Springtown Blvd. | Event Date: 2/14/13 (inclusive)
City: Livermore, CA | Sampler: JH

Well ID: MW-17 | Date Monitored: 2/14/13
Well Diameter: 4
Total Depth: 37.05 ft.
Depth to Water: 14.25 ft.

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

☐ Check if water column is less then 0.50 ft.

22.80 xVF .66 = 15.04 x3 case volume = Estimated Purge Volume: 45.14 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 18.81

Purge Equipment:

Disposable Bailer	
Stainless Steel Bailer	
Stack Pump	X
Suction Pump	
Grundfos	
Peristaltic Pump	
QED Bladder Pump	
Other:	

Sampling Equipment:

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

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

Start Time (purge): 0805 | Weather Conditions: Clear
Sample Time/Date: 0855 / 2/14/13 | Water Color: clear | Odor: Y / (N)
Approx. Flow Rate: 3 gpm. | Sediment Description: none
Did well de-water? NO | If yes, Time: | Volume: gal. | DTW @ Sampling: 17.62

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - (µS))	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
0810	15	7.39	627	17.6		
0815	30	7.30	605	17.2		
0820	45	7.22	599	17.1		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW- 17	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)

COMMENTS: slow Recovery 12" emw

Add/Replaced Lock: Add/Replaced Plug: Add/Replaced Bolt:

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #211253 | Job Number: 385867
Site Address: 930 Springtown Blvd. | Event Date: 2/14/13 (inclusive)
City: Livermore, CA | Sampler: SH

Well ID: MW-18 | Date Monitored: 2/14/13
Well Diameter: 4
Total Depth: 14.87 ft.
Depth to Water: 11.76 ft. ☐ Check if water column is less then 0.50 ft.

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

3.11 xVF .66 = 2.05 x3 case volume = Estimated Purge Volume: 6.15 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 12.38

Purge Equipment:

Disposable Bailer	X
Stainless Steel Bailer	
Stack Pump	
Suction Pump	
Grundfos	
Peristaltic Pump	
QED Bladder Pump	
Other:	

Sampling Equipment:

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

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

Start Time (purge): 1235 | Weather Conditions: Clear
Sample Time/Date: 1310 / 2/14/13 | Water Color: Cloudy Odor: Y / N
Approx. Flow Rate: — gpm. | Sediment Description: Light
Did well de-water? No If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 12.09

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - mS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
1240	2	7.83	789	17.8		
1245	4	7.60	780	17.3		
1250	6	7.34	755	17.2		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-18	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)

COMMENTS: 12" emco

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #211253 | Job Number: 385867
Site Address: 930 Springtown Blvd. | Event Date: 2/14/13 (inclusive)
City: Livermore, CA | Sampler: SH

Well ID: MW-19 | Date Monitored: 2/14/13
Well Diameter: 4
Total Depth: 14.90 ft.
Depth to Water: 12.08 ft.

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

☐ Check if water column is less then 0.50 ft.

2.82 xVF .66 = 1.86 x3 case volume = Estimated Purge Volume: 5.58 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 12.64

Purge Equipment:

Disposable Bailer	X
Stainless Steel Bailer	
Stack Pump	
Suction Pump	
Grundfos	
Peristaltic Pump	
QED Bladder Pump	
Other:	

Sampling Equipment:

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

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

Start Time (purge): 1220 | Weather Conditions: Clear
Sample Time/Date: 1330 / 2/14/13 | Water Color: Clear Odor: Y / N
Approx. Flow Rate: — gpm. | Sediment Description: Low
Did well de-water? Yes If yes, Time: 1228 Volume: 2 gal. DTW @ Sampling: 12.43

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - mS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
1223	1.5	7.46	577	17.9		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-19	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)

COMMENTS: 12" emco

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #211253 | Job Number: 385867
Site Address: 930 Springtown Blvd. | Event Date: 2/14/13 (inclusive)
City: Livermore, CA | Sampler: JH

Well ID: MW-20 | Date Monitored: 2/14/13
Well Diameter: 4
Total Depth: 14.92 ft.
Depth to Water: 9.43 ft.

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

☐ Check if water column is less then 0.50 ft.

5.49 xVF .66 = 3.62 x3 case volume = Estimated Purge Volume: 10.87 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 10.52

Purge Equipment:

Disposable Bailer	
Stainless Steel Bailer	
Stack Pump	X
Suction Pump	
Grundfos	
Peristaltic Pump	
QED Bladder Pump	
Other:	

Sampling Equipment:

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

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

Start Time (purge): 1605 | Weather Conditions: clear
Sample Time/Date: 1700 / 2/14/13 | Water Color: cloudy | Odor: Y / N
Approx. Flow Rate: 1 gpm. | Sediment Description: Low
Did well de-water? Yes | If yes, Time: 1611 | Volume: 6 gal. | DTW @ Sampling: _____

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - ~~µS~~)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
1605	4	7.47	689	18.6		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-20	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)

COMMENTS: _____

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

Chevron California Region Analysis Request/Chain of Custody

Lancaster Laboratories

For Lancaster Laboratories use only
Acct. #: 10904 Sample # 1370027 / 6958490 - 502 Group #: 008029

Ø21913-Ø4

Facility #: SS#211253-OML G-R#385867 Global ID#T0600101353
Site Address: 930 SPRINGTOWN BLVD., LIVERMORE, CA
Chevron PM: CM Lead Consultant: CRASB Silva
Consultant/Office: ~~G-R, Inc., 6747 Sierra Court, Suite J, Dublin, CA 94568~~ ~~Deanna L. Harding (deanna@grinc.com)~~
Consultant Prj. Mgr.:
Consultant Phone #: 925-551-7555 Fax #: 925-551-7899
Sampler: Jim Herren

Sample Identification	Date Collected	Time Collected	Grab	Composite	Matrix: Soil	Matrix: Water (Potable / NPDES)	Matrix: Oil / Air	Total Number of Containers	BTEX + [redacted] 8260 / 8021	TPH 8015 MOD GRO	TPH 8015 MOD DRO / Silica Gel Cleanup	8260 full scan	Oxygenates	Total Lead Method	Dissolved Lead Method
QA	2/14/13		X			X		2	X	X					
MW-9		0955	X			X		6	X	X					
MW-10		1010	X			X		6	X	X					
MW-11		1200	X			X		6	X	X					
MW-12		1240	X			X		6	X	X					
MW-13		1105	X			X		6	X	X					
MW-14		1440	X			X		6	X	X					
MW-15		1550	X			X		6	X	X					
MW-16		0750	X			X		6	X	X					
MW-17		0855	X			X		6	X	X					
MW-18		1310	X			X		6	X	X					
MW-19		1330	X			X		6	X	X					
MW-20		1700	X			X		6	X	X					

Preservative Codes
H = HCl T = Thiosulfate
N = HNO_3 B = NaOH
S = H_2SO_4 O = Other

- ☐ J value reporting needed
- ☒ Must meet lowest detection limits possible for 8260 compounds

8021 MTBE Confirmation
- ☐ Confirm highest hit by 8260
- ☐ Confirm all hits by 8260
- ☐ Run ____ oxy's on highest hit
- ☐ Run ____ oxy's on all hits

Comments / Remarks

Please forward the lab results directly to the Lead Consultant and cc: G-R.

Turnaround Time Requested (TAT) (please circle)
STD. TAT 72 hour 48 hour
24 hour 4 day 5 day

Data Package Options (please circle if required)
QC Summary Type I - Full EDF/EDD
Type VI (Raw Data) ☐ Coelt Deliverable not needed
WIP (RWQCB)
Disk

	Date	Time		Date	Time
Relinquished by:	2/14/13	2000	Received by: GETTLER-RYAN FRIDGE	02-19-13	0700
Relinquished by:	02-19-13	1215	Received by: A. Salgar	19FEB13	1215
Relinquished by: A. Salgar	19FEB13	1638	Received by: FEDEX		
Relinquished by Commercial Carrier: UPS FedEx Other			Received by:	2-20-13	910
Temperature Upon Receipt: 0.2-1.4 2.0 °C			Custody Seals Intact? Yes No		

0.2-1.4

ATTACHMENT B

LABORATORY ANALYTICAL REPORT

ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

February 28, 2013

Project: 211253

Submittal Date: 02/20/2013
Group Number: 1370027
PO Number: 0015118372
Release Number: MACLEOD
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
QA-T-130214 NA Water	6958490
MW-9-W-130214 Grab Water	6958491
MW-10-W-130214 Grab Water	6958492
MW-11-W-130214 Grab Water	6958493
MW-12-W-130214 Grab Water	6958494
MW-13-W-130214 Grab Water	6958495
MW-14-W-130214 Grab Water	6958496
MW-15-W-130214 Grab Water	6958497
MW-16-W-130214 Grab Water	6958498
MW-17-W-130214 Grab Water	6958499
MW-18-W-130214 Grab Water	6958500
MW-19-W-130214 Grab Water	6958501
MW-20-W-130214 Grab Water	6958502

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

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

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Respectfully Submitted,

Jill M. Parker

Jill M. Parker
Senior Specialist

(717) 556-7262

Sample Description: **QA-T-130214 NA Water**
Facility# 211253 Job# 385867 GRD
930 Springtown-Livermore T0600101353

LLI Sample # WW 6958490
LLI Group # 1370027
Account # 10904

Project Name: 211253

Collected: 02/14/2013

Submitted: 02/20/2013 09:10
Reported: 02/28/2013 15:51

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

1253Q

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10943	Benzene	71-43-2	N.D.	0.5	1
10943	Ethylbenzene	100-41-4	N.D.	0.5	1
10943	Toluene	108-88-3	N.D.	0.5	1
10943	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	1

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10943	BTEX 8260B Water	SW-846 8260B	1	P130561AA	02/25/2013 11:59	Emily R Styer	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	P130561AA	02/25/2013 11:59	Emily R Styer	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	13052A20A	02/22/2013 15:38	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	13052A20A	02/22/2013 15:38	Marie D John	1

Sample Description: MW-9-W-130214 Grab Water
Facility# 211253 Job# 385867 GRD
930 Springtown-Livermore T0600101353

LLI Sample # WW 6958491
LLI Group # 1370027
Account # 10904

Project Name: 211253

Collected: 02/14/2013 09:55 by JH

Submitted: 02/20/2013 09:10
Reported: 02/28/2013 15:51

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

12539

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10943	Benzene	71-43-2	N.D.	5	10
10943	Ethylbenzene	100-41-4	37	5	10
10943	Toluene	108-88-3	N.D.	5	10
10943	Xylene (Total)	1330-20-7	60	5	10
GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	
01728	TPH-GRO N. CA water C6-C12	n.a.	5,200	250	5

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10943	BTEX 8260B Water	SW-846 8260B	1	P130561AA	02/25/2013 13:55	Emily R Styer	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	P130561AA	02/25/2013 13:55	Emily R Styer	10
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	13052A20A	02/22/2013 22:50	Marie D John	5
01146	GC VOA Water Prep	SW-846 5030B	1	13052A20A	02/22/2013 22:50	Marie D John	5

Sample Description: MW-10-W-130214 Grab Water
Facility# 211253 Job# 385867 GRD
930 Springtown-Livermore T0600101353

LLI Sample # WW 6958492
LLI Group # 1370027
Account # 10904

Project Name: 211253

Collected: 02/14/2013 10:10 by JH

Submitted: 02/20/2013 09:10
Reported: 02/28/2013 15:51

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

25310

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10943	Benzene	71-43-2	N.D.	0.5	1
10943	Ethylbenzene	100-41-4	N.D.	0.5	1
10943	Toluene	108-88-3	N.D.	0.5	1
10943	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	1

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10943	BTEX 8260B Water	SW-846 8260B	1	P130561AA	02/25/2013 12:27	Emily R Styer	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	P130561AA	02/25/2013 12:27	Emily R Styer	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	13052A20A	02/22/2013 17:50	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	13052A20A	02/22/2013 17:50	Marie D John	1

Sample Description: **MW-11-W-130214 Grab Water**
Facility# 211253 Job# 385867 GRD
930 Springtown-Livermore T0600101353

LLI Sample # WW 6958493
LLI Group # 1370027
Account # 10904

Project Name: 211253

Collected: 02/14/2013 12:00 by JH

Submitted: 02/20/2013 09:10
Reported: 02/28/2013 15:51

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

25311

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10943	Benzene	71-43-2	N.D.	0.5	1
10943	Ethylbenzene	100-41-4	N.D.	0.5	1
10943	Toluene	108-88-3	N.D.	0.5	1
10943	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	
01728	TPH-GRO N. CA water C6-C12	n.a.	110	50	1

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10943	BTEX 8260B Water	SW-846 8260B	1	P130561AA	02/25/2013 14:23	Emily R Styer	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	P130561AA	02/25/2013 14:23	Emily R Styer	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	13052A20A	02/22/2013 21:22	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	13052A20A	02/22/2013 21:22	Marie D John	1

Sample Description: MW-12-W-130214 Grab Water
Facility# 211253 Job# 385867 GRD
930 Springtown-Livermore T0600101353

LLI Sample # WW 6958494
LLI Group # 1370027
Account # 10904

Project Name: 211253

Collected: 02/14/2013 12:40 by JH

Submitted: 02/20/2013 09:10
Reported: 02/28/2013 15:51

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

25312

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10943	Benzene	71-43-2	20	5	10
10943	Ethylbenzene	100-41-4	160	5	10
10943	Toluene	108-88-3	83	5	10
10943	Xylene (Total)	1330-20-7	500	5	10
GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	
01728	TPH-GRO N. CA water C6-C12	n.a.	7,700	250	5

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10943	BTEX 8260B Water	SW-846 8260B	1	P130561AA	02/25/2013 14:51	Emily R Styer	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	P130561AA	02/25/2013 14:51	Emily R Styer	10
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	13052A20A	02/22/2013 23:12	Marie D John	5
01146	GC VOA Water Prep	SW-846 5030B	1	13052A20A	02/22/2013 23:12	Marie D John	5

Sample Description: MW-13-W-130214 Grab Water
Facility# 211253 Job# 385867 GRD
930 Springtown-Livermore T0600101353

LLI Sample # WW 6958495
LLI Group # 1370027
Account # 10904

Project Name: 211253

Collected: 02/14/2013 11:05 by JH

Submitted: 02/20/2013 09:10
Reported: 02/28/2013 15:51

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

25313

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10943	Benzene	71-43-2	380	5	10
10943	Ethylbenzene	100-41-4	31	0.5	1
10943	Toluene	108-88-3	750	5	10
10943	Xylene (Total)	1330-20-7	1,700	5	10
GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	
01728	TPH-GRO N. CA water C6-C12	n.a.	11,000	250	5

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10943	BTEX 8260B Water	SW-846 8260B	1	P130562AA	02/25/2013 12:41	Emily R Styer	1
10943	BTEX 8260B Water	SW-846 8260B	1	F130581AA	02/27/2013 15:56	Anita M Dale	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	P130562AA	02/25/2013 12:41	Emily R Styer	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	F130581AA	02/27/2013 15:56	Anita M Dale	10
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	13052A20A	02/22/2013 23:34	Marie D John	5
01146	GC VOA Water Prep	SW-846 5030B	1	13052A20A	02/22/2013 23:34	Marie D John	5

Sample Description: MW-14-W-130214 Grab Water
Facility# 211253 Job# 385867 GRD
930 Springtown-Livermore T0600101353

LLI Sample # WW 6958496
LLI Group # 1370027
Account # 10904

Project Name: 211253

Collected: 02/14/2013 14:40 by JH

Submitted: 02/20/2013 09:10
Reported: 02/28/2013 15:51

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

25314

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10943	Benzene	71-43-2	170	5	10
10943	Ethylbenzene	100-41-4	61	5	10
10943	Toluene	108-88-3	120	5	10
10943	Xylene (Total)	1330-20-7	410	5	10
GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	
01728	TPH-GRO N. CA water C6-C12	n.a.	4,200	250	5

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10943	BTEX 8260B Water	SW-846 8260B	1	P130562AA	02/25/2013 14:09	Emily R Styer	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	P130562AA	02/25/2013 14:09	Emily R Styer	10
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	13053B20A	02/26/2013 23:13	Marie D John	5
01146	GC VOA Water Prep	SW-846 5030B	1	13053B20A	02/26/2013 23:13	Marie D John	5

Sample Description: **MW-15-W-130214 Grab Water**
Facility# 211253 Job# 385867 GRD
930 Springtown-Livermore T0600101353

LLI Sample # WW 6958497
LLI Group # 1370027
Account # 10904

Project Name: 211253

Collected: 02/14/2013 15:50 by JH

Submitted: 02/20/2013 09:10
Reported: 02/28/2013 15:51

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

25315

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10943	Benzene	71-43-2	N.D.	0.5	1
10943	Ethylbenzene	100-41-4	N.D.	0.5	1
10943	Toluene	108-88-3	N.D.	0.5	1
10943	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	1

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10943	BTEX 8260B Water	SW-846 8260B	1	P130562AA	02/25/2013 14:37	Emily R Styer	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	P130562AA	02/25/2013 14:37	Emily R Styer	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	13053B20A	02/26/2013 13:35	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	13053B20A	02/26/2013 13:35	Marie D John	1

Sample Description: **MW-16-W-130214 Grab Water**
Facility# 211253 Job# 385867 GRD
930 Springtown-Livermore T0600101353

LLI Sample # WW 6958498
LLI Group # 1370027
Account # 10904

Project Name: 211253

Collected: 02/14/2013 07:50 by JH

Submitted: 02/20/2013 09:10
Reported: 02/28/2013 15:51

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

25316

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10943	Benzene	71-43-2	N.D.	0.5	1
10943	Ethylbenzene	100-41-4	N.D.	0.5	1
10943	Toluene	108-88-3	N.D.	0.5	1
10943	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	1

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10943	BTEX 8260B Water	SW-846 8260B	1	P130562AA	02/25/2013 15:05	Emily R Styer	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	P130562AA	02/25/2013 15:05	Emily R Styer	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	13053B20A	02/26/2013 13:57	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	13053B20A	02/26/2013 13:57	Marie D John	1

Sample Description: **MW-17-W-130214 Grab Water**
Facility# 211253 Job# 385867 GRD
930 Springtown-Livermore T0600101353

LLI Sample # WW 6958499
LLI Group # 1370027
Account # 10904

Project Name: 211253

Collected: 02/14/2013 08:55 by JH

Submitted: 02/20/2013 09:10
Reported: 02/28/2013 15:51

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

25317

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10943	Benzene	71-43-2	N.D.	0.5	1
10943	Ethylbenzene	100-41-4	N.D.	0.5	1
10943	Toluene	108-88-3	N.D.	0.5	1
10943	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	1

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10943	BTEX 8260B Water	SW-846 8260B	1	P130562AA	02/25/2013 15:33	Emily R Styer	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	P130562AA	02/25/2013 15:33	Emily R Styer	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	13053B20A	02/26/2013 14:19	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	13053B20A	02/26/2013 14:19	Marie D John	1

Sample Description: MW-18-W-130214 Grab Water
Facility# 211253 Job# 385867 GRD
930 Springtown-Livermore T0600101353

LLI Sample # WW 6958500
LLI Group # 1370027
Account # 10904

Project Name: 211253

Collected: 02/14/2013 13:10 by JH

Submitted: 02/20/2013 09:10
Reported: 02/28/2013 15:51

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

25318

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10943	Benzene	71-43-2	130	5	10
10943	Ethylbenzene	100-41-4	270	5	10
10943	Toluene	108-88-3	5	5	10
10943	Xylene (Total)	1330-20-7	160	5	10
GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	
01728	TPH-GRO N. CA water C6-C12	n.a.	3,000	50	1

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10943	BTEX 8260B Water	SW-846 8260B	1	P130562AA	02/25/2013 16:01	Emily R Styer	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	P130562AA	02/25/2013 16:01	Emily R Styer	10
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	13053B20A	02/26/2013 15:25	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	13053B20A	02/26/2013 15:25	Marie D John	1

Sample Description: MW-19-W-130214 Grab Water
Facility# 211253 Job# 385867 GRD
930 Springtown-Livermore T0600101353

LLI Sample # WW 6958501
LLI Group # 1370027
Account # 10904

Project Name: 211253

Collected: 02/14/2013 13:30 by JH

Submitted: 02/20/2013 09:10
Reported: 02/28/2013 15:51

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

25319

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10943	Benzene	71-43-2	N.D.	0.5	1
10943	Ethylbenzene	100-41-4	N.D.	0.5	1
10943	Toluene	108-88-3	N.D.	0.5	1
10943	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	1

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10943	BTEX 8260B Water	SW-846 8260B	1	P130562AA	02/25/2013 16:28	Emily R Styer	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	P130562AA	02/25/2013 16:28	Emily R Styer	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	13053B20A	02/26/2013 14:41	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	13053B20A	02/26/2013 14:41	Marie D John	1

Sample Description: MW-20-W-130214 Grab Water
Facility# 211253 Job# 385867 GRD
930 Springtown-Livermore T0600101353

LLI Sample # WW 6958502
LLI Group # 1370027
Account # 10904

Project Name: 211253

Collected: 02/14/2013 17:00 by JH

Submitted: 02/20/2013 09:10
Reported: 02/28/2013 15:51

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

25320

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10943	Benzene	71-43-2	N.D.	5	10
10943	Ethylbenzene	100-41-4	N.D.	5	10
10943	Toluene	108-88-3	N.D.	5	10
10943	Xylene (Total)	1330-20-7	N.D.	5	10
	A preserved vial was submitted for analysis. However, the pH at the time of analysis was 3.				
GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	
01728	TPH-GRO N. CA water C6-C12	n.a.	2,000	50	1

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10943	BTEX 8260B Water	SW-846 8260B	1	P130562AA	02/25/2013 16:56	Emily R Styer	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	P130562AA	02/25/2013 16:56	Emily R Styer	10
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	13053B20A	02/26/2013 15:47	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	13053B20A	02/26/2013 15:47	Marie D John	1

Quality Control Summary

Client Name: Chevron Group Number: 1370027
Reported: 02/28/13 at 03:51 PM

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

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

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: F130581AA	Sample number(s): 6958495							
Benzene	N.D.	0.5	ug/l	90	92	77-121	3	30
Toluene	N.D.	0.5	ug/l	94	94	79-120	0	30
Xylene (Total)	N.D.	0.5	ug/l	95	95	77-120	0	30
Batch number: P130561AA	Sample number(s): 6958490-6958494							
Benzene	N.D.	0.5	ug/l	95		77-121		
Ethylbenzene	N.D.	0.5	ug/l	93		79-120		
Toluene	N.D.	0.5	ug/l	92		79-120		
Xylene (Total)	N.D.	0.5	ug/l	92		77-120		
Batch number: P130562AA	Sample number(s): 6958495-6958502							
Benzene	N.D.	0.5	ug/l	93		77-121		
Ethylbenzene	N.D.	0.5	ug/l	95		79-120		
Toluene	N.D.	0.5	ug/l	93		79-120		
Xylene (Total)	N.D.	0.5	ug/l	96		77-120		
Batch number: 13052A20A	Sample number(s): 6958490-6958495							
TPH-GRO N. CA water C6-C12	N.D.	50.	ug/l	95	88	75-135	7	30
Batch number: 13053B20A	Sample number(s): 6958496-6958502							
TPH-GRO N. CA water C6-C12	N.D.	50.	ug/l	86	87	75-135	1	30

Sample Matrix Quality Control

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: P130561AA	Sample number(s): 6958490-6958494 UNSPK: 6958492								
Benzene	101	105	72-134	4	30				
Ethylbenzene	97	103	71-134	5	30				
Toluene	99	104	80-125	4	30				
Xylene (Total)	97	101	79-125	4	30				
Batch number: P130562AA	Sample number(s): 6958495-6958502 UNSPK: 6958495								
Benzene	181 (2)	249 (2)	72-134	3	30				
Ethylbenzene	106	116	71-134	4	30				
Toluene	155 (2)	244 (2)	80-125	3	30				
Xylene (Total)	167 (2)	202 (2)	79-125	1	30				

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

Quality Control Summary

Client Name: Chevron Group Number: 1370027
Reported: 02/28/13 at 03:51 PM

Sample Matrix Quality Control

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max

Surrogate Quality Control

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

Analysis Name: UST VOCs by 8260B - Water
Batch number: F130581AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
Blank	95	96	101	100
LCS	95	98	99	99
LCSD	97	97	101	101
Limits:	80-116	77-113	80-113	78-113

Analysis Name: UST VOCs by 8260B - Water
Batch number: P130561AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6958490	103	102	96	94
6958491	102	102	97	94
6958492	102	97	97	95
6958493	103	100	96	95
6958494	102	103	96	95
Blank	102	100	97	95
LCS	103	104	96	96
MS	102	104	97	96
MSD	101	102	97	95
Limits:	80-116	77-113	80-113	78-113

Analysis Name: UST VOCs by 8260B - Water
Batch number: P130562AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6958495	100	93	97	103
6958496	100	98	98	99
6958497	98	94	99	97
6958498	100	97	97	98
6958499	101	100	98	98
6958500	101	100	98	98
6958501	101	97	97	98
6958502	101	99	98	98
Blank	101	100	97	97
LCS	103	98	97	100
MS	100	99	97	102
MSD	100	101	97	101

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

Quality Control Summary

Client Name: Chevron Group Number: 1370027
Reported: 02/28/13 at 03:51 PM

Surrogate Quality Control

Limits: 80-116 77-113 80-113 78-113

Analysis Name: TPH-GRO N. CA water C6-C12
Batch number: 13052A20A

	Trifluorotoluene-F
6958490	80
6958491	96
6958492	77
6958493	81
6958494	114
6958495	101
Blank	80
LCS	98
LCSD	97
Limits:	63-135

Analysis Name: TPH-GRO N. CA water C6-C12
Batch number: 13053B20A

	Trifluorotoluene-F
6958496	96
6958497	78
6958498	79
6958499	77
6958500	105
6958501	77
6958502	147*
Blank	81
LCS	98
LCSD	96
Limits:	63-135

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

Chevron California Region Analysis Request/Chain of Custody

Lancaster Laboratories

For Lancaster Laboratories use only
Acct. #: 10904 Sample # 1370027 / 6958490-502 Group #: 008029

Ø21913-Ø4

Facility #: SS#211253-OML G-R#385867 Global ID#T0600101353
Site Address: 930 SPRINGTOWN BLVD., LIVERMORE, CA
Chevron PM: CM Lead Consultant: CRASB Silva
Consultant/Office: ~~G-R, Inc., 6747 Sierra Court, Suite J, Dublin, CA 94568~~
Consultant Prj. Mgr.: ~~Deanna L. Harding (deanna@grinc.com)~~
Consultant Phone #: 925-551-7555 Fax #: 925-551-7899
Sampler: Jim Herrera

Sample Identification	Date Collected	Time Collected	Grab	Composite	Soil	Water (☐ Potable ☐ NPDES)	Oil ☐ Air	Total Number of Containers	BTEX + MTBE 8260 ☒ 8021 ☐ (H)	TPH 8015 MOD GRO (H)	TPH 8015 MOD DRO ☐ Silica Gel Cleanup	8260 full scan	Oxygenates	Total Lead Method	Dissolved Lead Method
QA	2/14/13		X			X		2	X	X					
MW-9	↓	0955	X			X		6	X	X					
MW-10		1010	X			X		6	X	X					
MW-11		1200	X			X		6	X	X					
MW-12		1240	X			X		6	X	X					
MW-13		1105	X			X		6	X	X					
MW-14		1440	X			X		6	X	X					
MW-15		1550	X			X		6	X	X					
MW-16		0750	X			X		6	X	X					
MW-17		0855	X			X		6	X	X					
MW-18		1310	X			X		6	X	X					
MW-19		1330	X			X		6	X	X					
MW-20	↓	1700	X			X		6	X	X					

Preservative Codes
H = HCl T = Thiosulfate
N = HNO_3 B = NaOH
S = H_2SO_4 O = Other

☐ J value reporting needed
☒ Must meet lowest detection limits possible for 8260 compounds

8021 MTBE Confirmation
☐ Confirm highest hit by 8260
☐ Confirm all hits by 8260
☐ Run ____ oxy's on highest hit
☐ Run ____ oxy's on all hits

Comments / Remarks

Please forward the lab results directly to the Lead Consultant and cc: G-R.

Turnaround Time Requested (TAT) (please circle)
(STD. TAT) 72 hour 48 hour
24 hour 4 day 5 day

Data Package Options (please circle if required) **EDF/EDD**
QC Summary Type I - Full
Type VI (Raw Data) ☐ Coelt Deliverable not needed
WIP (RWQCB)
Disk

Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	2/14/13	2000	GETTLER-RYAN FRIDGE	02-19-13	0700
[signature]	02-19-13	1215	A. Salyer	19FEB13	1215
A. Salyer	19FEB13	1630	FEDEX		
Relinquished by Commercial Carrier: UPS (FedEx) Other 3433290 (3)			Received by: [signature]	2-20-13	910
Temperature Upon Receipt ~~0.2-1.4~~ 2-20-13 C°			Custody Seals Intact? (Yes) No		

0.2-1.4

Lancaster Laboratories, Inc., 2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 (717) 656-2300
Copies: White and yellow should accompany samples to Lancaster Laboratories. The pink copy should be retained by the client.

4804.01 (north) Rev. 10/12/06

eurofins | Lancaster Laboratories

Explanation of Symbols and Abbreviations

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

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
µg	microgram(s)	**mg**	milligram(s)
mL	milliliter(s)	**L**	liter(s)
m3	cubic meter(s)	**µL**	microliter(s)
		pg/L	picogram/liter

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

> greater than

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

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 of gas 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.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

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

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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

ATTACHMENT C

HISTORICAL GROUNDWATER MONITORING AND SAMPLING DATA

Table 1

Groundwater Monitoring Data and Analytical Results

Former Texaco Service Station #211253

930 Springtown Boulevard

Livermore, California

WELL ID/ DATE	TOC* (ft.)	DTW (ft.)	GWE (msl)	SPHT (ft.)	SPH REMOVED (gallons)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)
MW-9										
07/23/09[1]	523.14	13.00	510.14	0.00	0.00	5,200	4	5	310	100
11/09/09	523.14	12.70	510.44	0.00	0.00	240	4	4	2	5
02/22/10	523.14	11.93	511.21	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5
05/24/10	**523.14**	**12.22**	**510.92**	**0.00**	**0.00**	**6,200**	**9**	**5**	**470**	**110**
MW-10										
07/23/09[1]	522.76	12.59	510.17	0.00	0.00	16,000	220	440	440	660
11/09/09	522.76	12.30	510.46	0.00	0.00	2,800	1	2[3]	30	30
02/22/10	522.76	11.52	511.24	0.00	0.00	3,600	9	2	61	10
05/24/10	**522.76**	**11.82**	**510.94**	**0.00**	**0.00**	**3,000**	**12**	**3**	**110**	**22**
MW-11										
07/23/09[1]	523.25	13.05	510.20	0.00	0.00	5,400	25	28	62	66
11/09/09	523.25	12.73	510.52	0.00	0.00	1,100	3	0.6[3]	2	2
02/22/10	523.25	11.96	511.29	0.00	0.00	1,400	2	<0.5	5	0.9
05/24/10	**523.25**	**12.27**	**510.98**	**0.00**	**0.00**	**1,700**	**1**	**<0.5**	**10**	**0.6**
MW-12										
07/23/09[1]	523.42	13.03	510.41**	0.02	5.01[2]	48,000	340	3,100	1,300	7,600
11/09/09	523.42	12.78	510.64	0.00	0.00	18,000	290	560	22	3,100
02/22/10	523.42	12.13	511.29	0.00	0.00	14,000	190	590	310	1,400
05/24/10	**523.42**	**12.38**	**511.04**	**0.00**	**0.00**	**17,000**	**150**	**530**	**320**	**1,400**
MW-13										
07/23/09[1]	523.12	12.75	510.37	0.00	0.00	52,000	760	6,200	980	13,000
11/09/09	523.12	12.51	510.61	0.00	0.00	12,000	340	1,300	16	1,700
02/22/10	523.12	11.87	511.25	0.00	0.00	13,000	630	600	22	960
05/24/10	**523.12**	**12.10**	**511.02**	**0.00**	**0.00**	**15,000**	**950**	**670**	**130**	**790**

Table 1

Groundwater Monitoring Data and Analytical Results

Former Texaco Service Station #211253

930 Springtown Boulevard

Livermore, California

WELL ID/ DATE	TOC* (ft.)	DTW (ft.)	GWE (msl)	SPHT (ft.)	SPH REMOVED (gallons)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)
MW-14										
07/23/09[1]	520.88	10.40	510.48	0.00	0.00	8,400	230	460	180	670
11/09/09	520.88	10.11	510.77	0.00	0.00	23,000	1,800	1,900	750	2,600
02/22/10	520.88	9.37	511.51	0.00	0.00	48,000	3,600	7,900	2,100	9,400
05/24/10	**520.88**	**9.88**	**511.25****	**0.31**	**0.00**	**NOT SAMPLED DUE TO THE PRESENCE OF SPH**				**--**
MW-15										
07/23/09[1]	520.87	10.33	510.54	0.00	0.00	2,500	6	17	16	320
11/09/09	520.87	10.18	510.69	0.00	0.00	20,000	110	590	370	4,900
02/22/10	520.87	9.48	511.39	0.00	0.00	66	<0.5	3	1	6
05/24/10	**520.87**	**9.83**	**511.04**	**0.00**	**0.00**	**70**	**1**	**8**	**1**	**8**
MW-16										
07/23/09[1]	520.50	10.63	509.87	0.00	0.00	430	0.6	<0.5	<0.5	<0.5
11/09/09	520.50	10.31	510.19	0.00	0.00	180	<0.5	<0.5	<0.5	<0.5
02/22/10	520.50	9.63	510.87	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5
05/24/10	**520.50**	**9.88**	**510.62**	**0.00**	**0.00**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**
QA										
07/23/09	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5
11/09/09	--	--	--	--	--	<50	<0.5	1[4]	<0.5	<0.5
02/22/10	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5
05/24/10	--	--	--	--	--	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**

Table 1

Groundwater Monitoring Data and Analytical Results

Former Texaco Service Station #211253
930 Springtown Boulevard
Livermore, California

EXPLANATIONS:

TOC = Top of Casing
(ft.) = Feet
DTW = Depth to Water
GWE = Groundwater Elevation
SPHT = Separate Phase Hydrocarbon Thickness
(msl) = Mean Sea Level
TPH = Total Petroleum Hydrocarbons
GRO = Gasoline Range Organics
B = Benzene
T = Toluene
E = Ethylbenzene
X = Xylenes
-- = Not Measured/Not Analyzed
QA = Quality Assurance/Trip Blank
(µg/L) = Micrograms per liter

* TOC elevations were surveyed on July 22, 2009, by Morrow Surveying. Vertical datum is NAVD 88 from GPS Observations.

** GWE has been corrected due to the presence of SPH; correction factor: [(TOC - DTW) + (SPHT x 0.80)].

ANALYTICAL METHODS:

TPH-GRO analyzed by EPA Method 8015
BTEX analyzed by EPA Method 8260

[1] Well development preformed.

[2] Product + water removed.

[3] The Laboratory report indicates the result reported for toluene in this sample may be attributed to trace amounts of toluene recently found in HCl preserved vials from the manufacturer. The trip blank associated with this sample had a trace toluene detection of 1 ug/l. Please refer to the letter accompanying the lab report for further explanation.

[4] The Laboratory report indicates the result reported for toluene in this trip blank may be attributed to trace amounts of toluene recently found in HCl preserved vials from the manufacturer. Please refer to the letter accompanying the lab report for further explanation.