



Carryl MacLeod
Project Manager
Marketing Business Unit

**Chevron Environmental
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October 13, 2014

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

RECEIVED

By Alameda County Environmental Health at 9:27 am, Oct 14, 2014

I accept the *Third Quarter 2014 Groundwater Monitoring and Sampling Report*.

I agree with the conclusions and recommendations presented in this document. The information included is accurate to the best of my knowledge, and appears to meet local agency and Regional Board guidelines. This Third Quarter 2014 Groundwater Monitoring and Sampling Report was prepared by Conestoga Rovers & Associates, upon whose assistance and advice I have relied.

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

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

Sincerely,

A handwritten signature in blue ink that reads "Carryl MacLeod".

Carryl MacLeod
Project Manager

Attachment: *Third Quarter 2014 Groundwater Monitoring and Sampling Report*



**CONESTOGA-ROVERS
& ASSOCIATES**

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

October 13, 2014

Reference No. 060058

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

Re: Third Quarter 2014
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 *Third Quarter 2014 Groundwater Monitoring and Sampling Report* for the site referenced above (Figure 1) on behalf of Chevron Environmental Management Company (Chevron). Groundwater monitoring and sampling was performed by Gettler-Ryan Inc. (G-R) of Dublin, California and their *Groundwater Monitoring Data Package* is included as Attachment A. Current groundwater monitoring and sampling data are presented in Table 1 and shown on Figures 2 and 3. Eurofins Lancaster Laboratories Environmental, LLC's *Analytical Results* report is included as Attachment B. Historical groundwater monitoring and sampling data are included as Attachment C.

RESULTS OF THIRD QUARTER 2014 EVENT

On August 6, 2014, 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 and intermediate zones are illustrated on Figures 2 and 3.

Equal
Employment Opportunity
Employer



October 13, 2014

Reference No. 060058

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Results of the current monitoring event indicate the following:

- Groundwater Flow Direction
 - Shallow (Figure 2) Northwest
 - Intermediate (Figure 3) Variable
 - Deep Not Applicable (single well)

- Approximate Depth to Groundwater
 - Shallow Wells 11 to 14 feet below grade (fbg)
 - Intermediate Wells 12 to 16 fbg
 - Deep Well 12 fbg

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

TABLE A: GROUNDWATER ANALYTICAL DATA					
<i>Well ID</i>	<i>TPHg (µg/L)</i>	<i>Benzene (µg/L)</i>	<i>Toluene (µg/L)</i>	<i>Ethylbenzene (µg/L)</i>	<i>Total Xylenes (µg/L)</i>
<i>ESLs</i>	100	1	40	30	20
<i>Shallow Wells</i>					
MW-9	Not sampled due to insufficient water				
MW-11	Not sampled - Dry well				
MW-14	Not sampled due to LNAPL - 0.02 ft				
MW-18	Not sampled due to insufficient water				
MW-19	Not sampled due to insufficient water				
MW-20	1,600	<0.5	<0.5	3	<0.5
<i>Intermediate Wells</i>					
MW-10	<50	<0.5	<0.5	<0.5	<0.5
MW-12	4,200	20	13	25	59
MW-13	19,000	920	1,900	370	2,500
MW-16	<50	<0.5	<0.5	<0.5	<0.5
MW-17	<50	<0.5	<0.5	<0.5	<0.5
<i>Deep Well</i>					
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				
	Semi-annual wells are sampled during the first and third quarters				



October 13, 2014

Reference No. 060058

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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 at the three depth intervals are at least partially hydraulically connected.
- LNAPL was detected in MW-14 during the third quarter 2014 event at a thickness of 0.02 ft. To confirm the presence of LNAPL, CRA gauged MW-14 approximately one week after the initial detection and on August 14, 2014 confirmed the presence of LNAPL at a thickness of 0.01 ft. Groundwater levels in MW-14 have dropped approximately one foot since the May 2014 monitoring and sampling event. Given LNAPL has not been measured in MW-14 in two years, it is likely that its reappearance is transient resulting from dropping groundwater levels and localized LNAPL previously trapped in submerged soil.
- Consistent with past data, no hydrocarbons were detected in deep well MW-15.
- Dissolved hydrocarbon concentrations in site wells are generally stable to declining.

As stated in CRA's *Low-Threat Closure Request*, dated July 28, 2014, Chevron shall cease groundwater monitoring and sampling activities pending a response and further direction from ACEH. No future groundwater monitoring or sampling is scheduled at this time. The site is currently in the public comment period, which closes October 28, 2014.



**CONESTOGA-ROVERS
& ASSOCIATES**

October 13, 2014

Reference No. 060058

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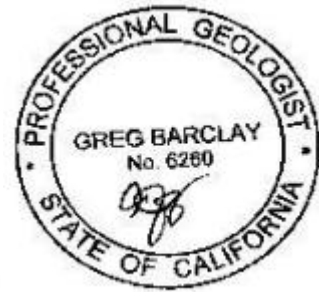
Please contact Brian Silva at (916) 889-8908 if you have any questions or require additional information.

Sincerely,

CONESTOGA-ROVERS & ASSOCIATES

Brian Silva

Greg Barclay, PG 6260



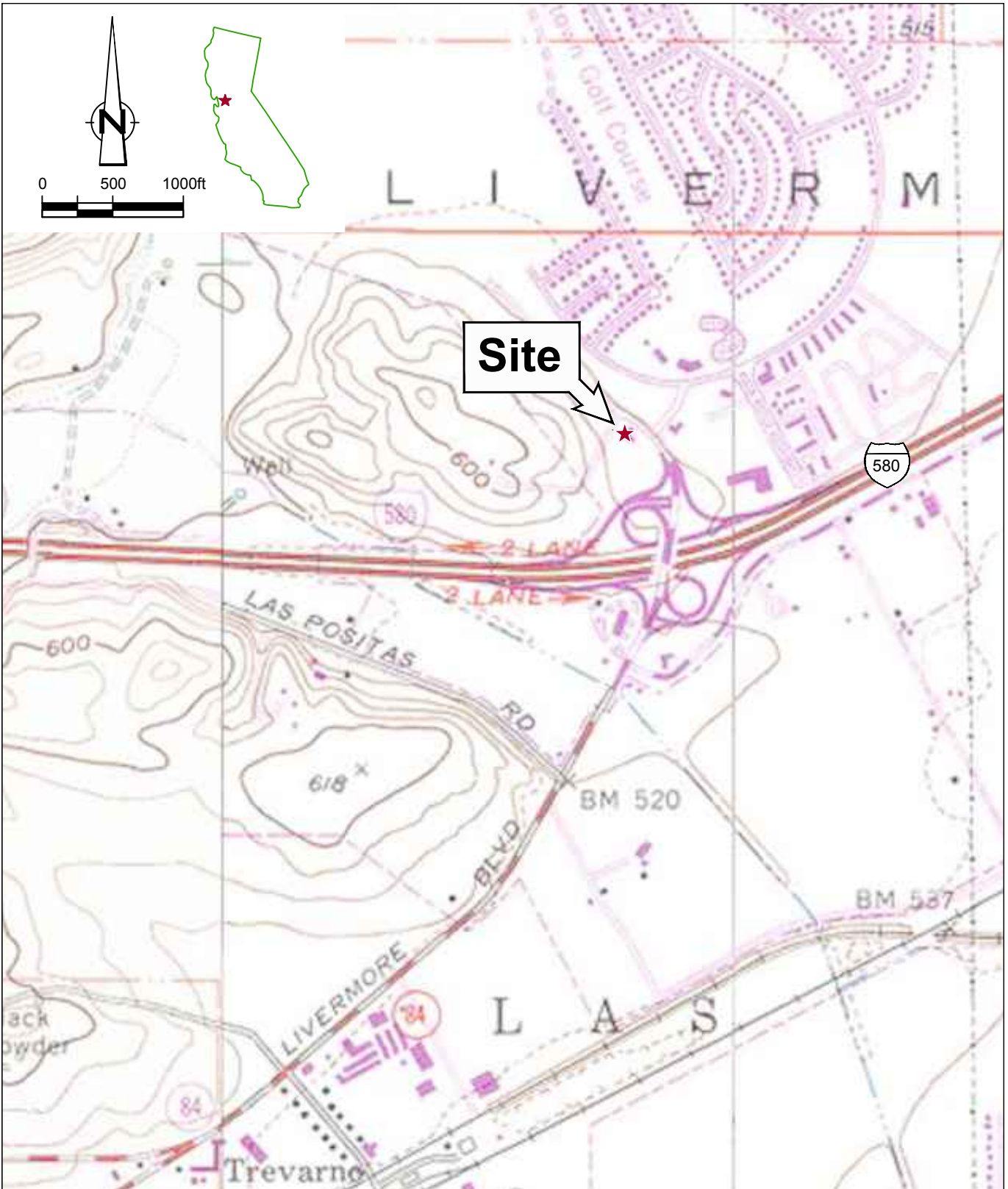
BS/aa/29

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
Table 1	Groundwater Monitoring and Sampling Data
Attachment A	Groundwater Monitoring and Sampling Data Package
Attachment B	Laboratory Analytical Report
Attachment C	Historical Groundwater Monitoring and Sampling Data

cc: Ms. Carryl MacLeod, Chevron (*electronic copy*)
Mr. Keiran Buckley
Mr. Ken Hilliard
Mr. Kirk F. Sniff, Esq, Strasburger & Price, LLP
Mrs. Janet Brayer

FIGURES



Site

580

LAS POSITAS RD

LIVERMORE BLVD

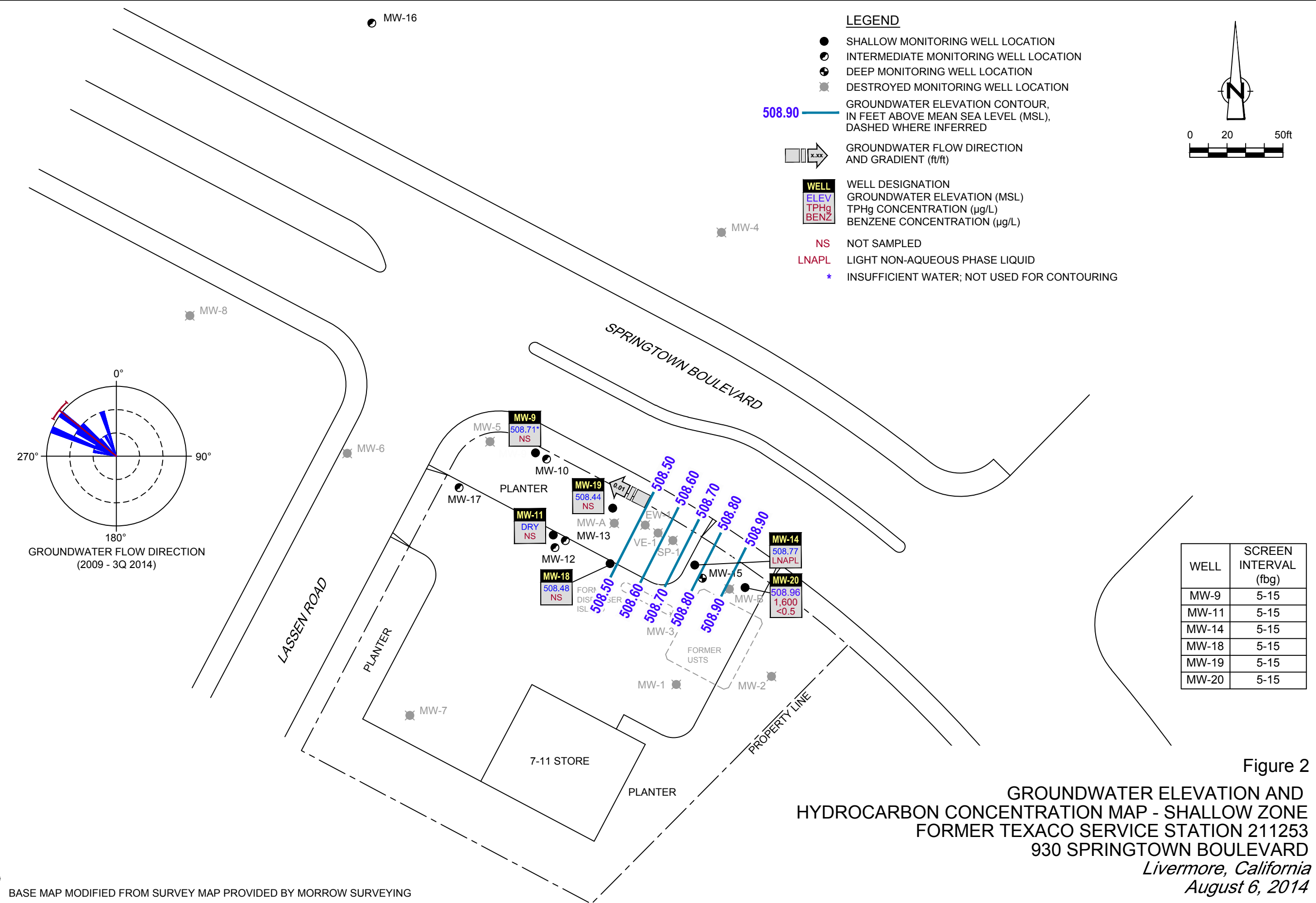
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Figure 1

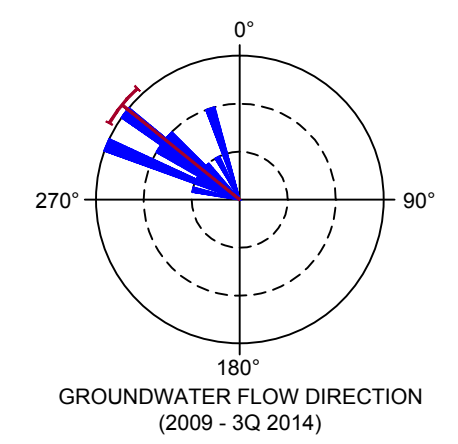
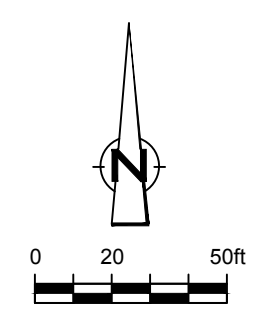
VICINITY MAP
 FORMER TEXACO STATION 211253
 930 SPRINGTOWN BOULEVARD
Livermore, California





LEGEND

- SHALLOW MONITORING WELL LOCATION
- INTERMEDIATE MONITORING WELL LOCATION
- ⊙ DEEP MONITORING WELL LOCATION
- ⊗ DESTROYED MONITORING WELL LOCATION
- 508.90 — GROUNDWATER ELEVATION CONTOUR, IN FEET ABOVE MEAN SEA LEVEL (MSL), DASHED WHERE INFERRED
- GROUNDWATER FLOW DIRECTION AND GRADIENT (ft/ft)
- WELL
ELEV
TPHg
BENZ
- NS NOT SAMPLED
- LNAPL LIGHT NON-AQUEOUS PHASE LIQUID
- * INSUFFICIENT WATER; NOT USED FOR CONTOURING



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
August 6, 2014

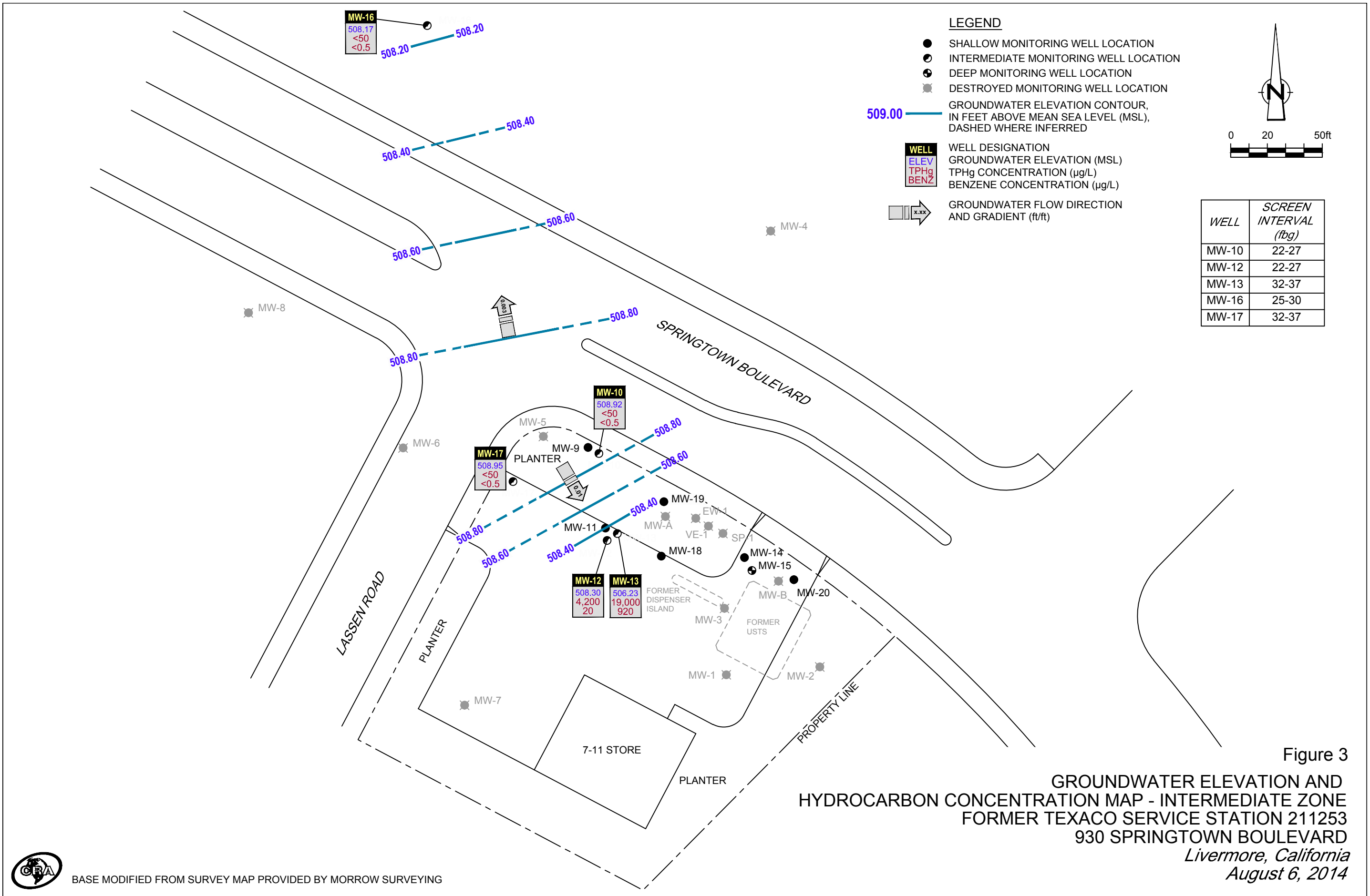


Figure 3
 GROUNDWATER ELEVATION AND
 HYDROCARBON CONCENTRATION MAP - INTERMEDIATE ZONE
 FORMER TEXACO SERVICE STATION 211253
 930 SPRINGTOWN BOULEVARD
 Livermore, California
 August 6, 2014



BASE MODIFIED FROM SURVEY MAP PROVIDED BY MORROW SURVEYING

TABLE

TABLE 1

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

Location	Date	TOC	DTW	GWE	LNAPL	LNAPL REMOVED	HYDROCARBONS	PRIMARY VOCS				GENERAL CHEMISTRY			
							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-9 ^{2,5}	05/20/2013	523.14	13.11	510.03	-	-	-	-	-	-	-	-	-	-	-
MW-9 ^{2,5}	07/30/2013	523.14	13.55	509.59	-	-	5,600	6	4	31	77	-	-	-	-
MW-9 ^{2,5}	11/06/2013	523.14	13.57	509.57	-	-	-	-	-	-	-	-	-	-	-
MW-9 ^{2,5,6}	01/30/2014	523.14	13.65	509.49	-	-	-	-	-	-	-	-	-	-	-
MW-9 ^{2,5,6}	05/28/2014	523.14	13.71	509.43	-	-	-	-	-	-	-	-	-	-	-
MW-9^{2,5,6}	08/06/2014	523.14	14.43	508.71	-	-	-	-	-	-	-	-	-	-	-
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-10 ^{3,5}	05/20/2013	523.25	12.70	510.55	-	-	-	-	-	-	-	-	-	-	-
MW-10 ^{3,5}	07/30/2013	523.25	13.15	510.10	-	-	170	<0.5	<0.5	<0.5	<0.5	-	-	-	-
MW-10 ^{3,5}	11/06/2013	523.25	13.18	510.07	-	-	-	-	-	-	-	-	-	-	-
MW-10 ^{3,5}	01/30/2014	523.25	13.34	509.91	-	-	57	<0.5	<0.5	<0.5	<0.5	-	-	-	-
MW-10 ^{3,5}	05/28/2014	523.25	13.30	509.95	-	-	-	-	-	-	-	-	-	-	-
MW-10^{3,5}	08/06/2014	523.25	14.33	508.92	-	-	<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

Location	Date	TOC	DTW	GWE	LNAPL	LNAPL REMOVED	HYDROCARBONS	PRIMARY VOCS				GENERAL CHEMISTRY			
							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-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-11 ^{2,5}	05/20/2013	523.42	13.13	510.29	-	-	-	-	-	-	-	-	-	-	-
MW-11 ^{2,5}	07/30/2013	523.42	13.60	509.82	-	-	320	<0.5	<0.5	<0.5	<0.5	-	-	-	-
MW-11 ^{2,5}	11/06/2013	523.42	13.64	509.78	-	-	-	-	-	-	-	-	-	-	-
MW-11 ^{2,5,6}	01/30/2014	523.42	13.69	509.73	-	-	-	-	-	-	-	-	-	-	-
MW-11 ^{2,5,6}	05/28/2014	523.42	13.73	509.69	-	-	-	-	-	-	-	-	-	-	-
MW-11^{2,5,7}	08/06/2014	523.42	-	-	-	-	-	-	-	-	-	-	-	-	-
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	-	-	-	-
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-12 ^{3,5}	05/20/2013	523.12	13.21	509.91	-	-	-	-	-	-	-	-	-	-	-
MW-12 ^{3,5}	07/30/2013	523.12	13.62	509.50	-	-	9,000	52	190	160	610	-	-	-	-
MW-12 ^{3,5}	11/06/2013	523.12	13.66	509.46	-	-	-	-	-	-	-	-	-	-	-
MW-12 ^{3,5}	01/30/2014	523.12	13.66	509.46	-	-	7,800	11	31	120	240	-	-	-	-
MW-12 ^{3,5}	05/28/2014	523.12	13.76	509.36	-	-	-	-	-	-	-	-	-	-	-
MW-12^{3,5}	08/06/2014	523.12	14.82	508.30	-	-	4,200	20	13	25	59	-	-	-	-

TABLE 1

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

Location	Date	TOC	DTW	GWE	LNAPL	LNAPL REMOVED	HYDROCARBONS	PRIMARY VOCS				GENERAL CHEMISTRY			
							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-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-13 ^{3,5}	05/20/2013	520.88	12.94	507.94	-	-	-	-	-	-	-	-	-	-	-
MW-13 ^{3,5}	07/30/2013	520.88	13.35	507.53	-	-	2,800	94	19	22	57	-	-	-	-
MW-13 ^{3,5}	11/06/2013	520.88	13.38	507.50	-	-	-	-	-	-	-	-	-	-	-
MW-13 ^{3,5}	01/30/2014	520.88	13.43	507.45	-	-	14,000	650	1,500	110	1,900	-	-	-	-
MW-13 ^{3,5}	05/28/2014	520.88	13.50	507.38	-	-	-	-	-	-	-	-	-	-	-
MW-13^{3,5}	08/06/2014	520.88	14.65	506.23	-	-	19,000	920	1,900	370	2,500	-	-	-	-
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	-	-	-	-	-	-	-	-	-
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	-	-	-	-	-	-	-	-	-	-	-

TABLE 1

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

Location	Date	TOC	DTW	GWE	LNAPL	LNAPL REMOVED	HYDROCARBONS	PRIMARY VOCS				GENERAL CHEMISTRY			
							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}	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-14 ^{2,5}	05/20/2013	520.88	10.51	510.37	-	-	-	-	-	-	-	-	-	-	-
MW-14 ^{2,5}	07/30/2013	520.88	10.92	509.96	-	-	6,500	370	110	140	430	-	-	-	-
MW-14 ^{2,5}	11/06/2013	520.88	11.03	509.85	-	-	-	-	-	-	-	-	-	-	-
MW-14 ^{2,5}	01/30/2014	520.88	11.03	509.85	-	-	4,300	230	64	80	220	-	-	-	-
MW-14 ^{2,5}	05/28/2014	520.88	11.05	509.83	-	-	-	-	-	-	-	-	-	-	-
MW-14^{1,2,5}	08/06/2014**	520.88	12.13	508.77	0.02	-	-	-	-	-	-	-	-	-	-
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-15 ^{4,5}	05/20/2013	520.87	10.58	510.29	-	-	-	-	-	-	-	-	-	-	-
MW-15 ^{4,5}	07/30/2013	520.87	11.00	509.87	-	-	<50	<0.5	<0.5	<0.5	0.6	-	-	-	-
MW-15 ^{4,5}	11/06/2013	520.87	11.07	509.80	-	-	-	-	-	-	-	-	-	-	-
MW-15 ^{4,5}	01/30/2014	520.87	11.06	509.81	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-
MW-15 ^{4,5}	05/28/2014	520.87	11.14	509.73	-	-	-	-	-	-	-	-	-	-	-
MW-15^{4,5}	08/06/2014	520.87	12.10	508.77	-	-	<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	-	-	-	-

TABLE 1

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

Location	Date	TOC	DTW	GWE	LNAPL	LNAPL REMOVED	HYDROCARBONS	PRIMARY VOCS				GENERAL CHEMISTRY			
							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-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-16 ^{3,5}	05/20/2013	520.50	10.70	509.80	-	-	-	-	-	-	-	-	-	-	-
MW-16 ^{3,5}	07/30/2013	520.50	11.12	509.38	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-
MW-16 ^{3,5}	11/06/2013	520.50	11.16	509.34	-	-	-	-	-	-	-	-	-	-	-
MW-16 ^{3,5}	01/30/2014	520.50	11.35	509.15	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-
MW-16 ^{3,5}	05/28/2014	520.50	11.31	509.19	-	-	-	-	-	-	-	-	-	-	-
MW-16^{3,5}	08/06/2014	520.50	12.33	508.17	-	-	<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
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-17 ³	05/20/2013	524.81	14.65	510.16	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-
MW-17 ³	07/30/2013	524.81	15.09	509.72	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-
MW-17 ³	11/06/2013	524.81	14.93	509.88	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-
MW-17 ³	01/30/2014	524.81	14.90	509.91	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-
MW-17 ³	05/28/2014	524.81	15.15	509.66	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-
MW-17³	08/06/2014	524.81	15.86	508.95	-	-	<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	-	-	-	-

TABLE 1

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

Location	Date	TOC	DTW	GWE	LNAPL	LNAPL REMOVED	HYDROCARBONS	PRIMARY VOCS				GENERAL CHEMISTRY			
							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-18 ²	05/20/2013	522.40	12.11	510.29	-	-	1,200	28	47	52	130	-	-	-	-
MW-18 ²	07/30/2013	522.40	12.57	509.83	-	-	6,400	270	230	440	1,100	-	-	-	-
MW-18 ²	11/06/2013	522.40	12.67	509.73	-	-	1,400	43	28	74	190	-	-	-	-
MW-18 ²	01/30/2014	522.40	12.70	509.70	-	-	220	0.6	0.8	<0.5	<0.5	-	-	-	-
MW-18 ²	05/28/2014	522.40	12.75	509.65	-	-	4,400	300	160	310	840	-	-	-	-
MW-18^{2,6}	08/06/2014	522.40	13.92	508.48	-	-	-	-	-	-	-	-	-	-	-
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-19 ²	05/20/2013	522.63	12.44	510.19	-	-	4,700	6	2	43	7	-	-	-	-
MW-19 ²	07/30/2013	522.63	12.93	509.70	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-
MW-19 ²	11/06/2013	522.63	12.96	509.67	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-
MW-19 ²	01/30/2014	522.63	13.05	509.58	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-
MW-19 ²	05/28/2014	522.63	13.06	509.57	-	-	76	<0.5	<0.5	<0.5	<0.5	-	-	-	-
MW-19^{2,6}	08/06/2014	522.63	14.19	508.44	-	-	-	-	-	-	-	-	-	-	-
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	-	-	-	-
MW-20 ²	05/20/2013	520.28	9.78	510.50	-	-	3,000	<0.5	1	24	30	-	-	-	-
MW-20 ²	07/30/2013	520.28	10.28	510.00	-	-	2,800	<0.5	3	23	17	-	-	-	-
MW-20 ²	11/06/2013	520.28	10.27	510.01	-	-	1,900	<0.5	2	18	17	-	-	-	-
MW-20 ²	01/30/2014	520.28	10.33	509.95	-	-	1,100	<0.5	<0.5	1	<0.5	-	-	-	-

TABLE 1

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

Location	Date	TOC	DTW	GWE	LNAPLT	LNAPL REMOVED	HYDROCARBONS	PRIMARY VOCS				GENERAL CHEMISTRY			
							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-20 ²	05/28/2014	520.28	10.34	509.94	-	-	970	<0.5	<0.5	0.8	<0.5	-	-	-	-
MW-20 ²	08/06/2014	520.28	11.32	508.96	-	-	1,600	<0.5	<0.5	3	<0.5	-	-	-	-
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	-	-	-	-
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	-	-	-	-
QA	05/20/2013	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-
QA	07/30/2013	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-
QA	11/06/2013	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-
QA	01/30/2014	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-
QA	05/28/2014	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-
QA	08/06/2014	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-

Abbreviations and Notes:

TOC = Top of casing

DTW = Depth to water

GWE = Groundwater elevation

(ft-amsl) = Feet above mean sea level

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

TABLE 1

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

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

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

6 Insufficient water

7 Dry

ATTACHMENT A

MONITORING DATA PACKAGE



TRANSMITTAL

August 15, 2014
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.
6805 Sierra Court, Suite G
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 Third Quarter Event of August 6, 2014

COMMENTS:

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

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

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

Trans/211253

WELL CONDITION STATUS SHEET

Client/
Facility #: **Chevron #211253**

Site Address: **930 Springtown Blvd.**

City: **Livermore, CA**

Job #: **385867**

Event Date: **3/16/14**

Sampler: **G. MEDINA**

WELL ID	Vault Frame Condition	Gasket/O-Ring <small>(M) Missing (R) Replaced</small>	Bolts <small>(M) Missing (R) Replaced</small>	Bolt Flanges <small>B=Broken S=Stripped R=Retaped</small>	Apron Condition <small>C=Cracked B=Broken G=Gone</small>	Grout Seal <small>(Deficient) Inches from TOC</small>	Casing <small>(Condition prevents tight cap seal)</small>	REPLACE LOCK Y/N	REPLACE CAP Y/N	WELL VAULT <small>Manufacture/Size/ # of Bolts</small>	Pictures Taken Y/N
MW-9	OK	OK	OK	OK	OK	OK	OK	N	N	EMCO 1/2/2	N
MW-10	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
MW-11	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
MW-12	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
MW-13	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
MW-14	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
MW-15	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
MW-16	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
MW-17	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
MW-18	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
MW-19	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
MW-20	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓

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 Seaport Environmental located in Redwood City, 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: 8/6/14 (inclusive)
Sampler: G.M.

Well ID: MW-9
Well Diameter: 4 in.
Total Depth: 14.76 ft.
Depth to Water: 14.43 ft.
0.33 xVF = _____ x3 case volume = Estimated Purge Volume: _____ gal.

Date Monitored: 8/6/14

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

Check if water column is less than 0.50 ft.

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

Purge Equipment:

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

Sampling Equipment:

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

Time Started: _____ (2400 hrs)
 Time Completed: _____ (2400 hrs)
 Depth to Product: _____ ft
 Depth to Water: _____ ft
 Hydrocarbon Thickness: 8 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)

COMMENTS: INSUFFICIENT H₂O

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



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

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

Job Number: 385867
 Event Date: 8/6/14 (inclusive)
 Sampler: GM

Well ID: MW-10
 Well Diameter: 4 in.
 Total Depth: 26.31 ft.
 Depth to Water: 14.33 ft.

Date Monitored: 8/6/14

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

Check if water column is less than 0.50 ft.
 Depth to Water = 11.98 xVF 0.66 = 7.90 x3 case volume = Estimated Purge Volume: 24 gal.
 Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 16.72

Purge Equipment:

Disposable Bailer _____
 Stainless Steel Bailer _____
 Stack Pump _____
 Peristaltic Pump X _____
 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:	<u>Ø</u> 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): 1440
 Sample Time/Date: 1750 8/6/14
 Approx. Flow Rate: 2 gpm.
 Did well de-water? Yes If yes, Time: 1455 Volume: 11 gal. DTW @ Sampling: 16.70
 Weather Conditions: Sunny
 Water Color: Cloudy Odor: Ø S-LIGHT
 Sediment Description: SILT

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS/cm)	Temperature (C F)	D.O. (mg/L)	ORP (mV)
<u>1445</u>	<u>8</u>	<u>7.42</u>	<u>1321</u>	<u>23.5</u>		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-10</u>	<u>6x vial</u>	<u>YES</u>	<u>HCL</u>	<u>LANCASTER</u>	<u>TPH-GRO(8015)/BTEX(8260)</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 #211253
 Site Address: 930 Springtown Blvd.
 City: Livermore, CA

Job Number: 385867
 Event Date: 3/6/14 (inclusive)
 Sampler: GM

Well ID: MW- 11
 Well Diameter: 4 in.
 Total Depth: 14.35 ft.
 Depth to Water: DRY ft.

Date Monitored: 3/6/14

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

Check if water column is less than 0.50 ft.

xVF _____ = _____ x3 case volume = Estimated Purge Volume: _____ gal.

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

Purge Equipment:

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

Sampling Equipment:

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

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

Start Time (purge): _____
 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)

COMMENTS: DRY

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



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: 8/6/14 (inclusive)
 Sampler: GM

Well ID: MW-12
 Well Diameter: 4 in.
 Total Depth: 26.61 ft.
 Depth to Water: 14.82 ft.
11.79 xVF = 0.66 = 7.79

Date Monitored: 8/6/14

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

Check if water column is less than 0.50 ft.

x3 case volume = Estimated Purge Volume: 24 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 17.17

Purge Equipment:
 Disposable Bailer _____
 Stainless Steel Bailer _____
 Stack Pump X _____
 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:	<u>0</u> 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): 1655
 Sample Time/Date: 1730 / 8/6/14
 Approx. Flow Rate: 2 gpm.
 Did well de-water? no If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 17.16

Weather Conditions: SUNNY
 Water Color: CLOUDY Odor: CPN STRONG
 Sediment Description: SILT

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS) mS µmhos/cm	Temperature (C) (F)	D.O. (mg/L)	ORP (mV)
<u>1659</u>	<u>8</u>	<u>7.22</u>	<u>1169</u>	<u>22.6</u>		
<u>1703</u>	<u>16</u>	<u>7.14</u>	<u>1185</u>	<u>22.5</u>		
<u>1707</u>	<u>24</u>	<u>7.07</u>	<u>1197</u>	<u>22.1</u>		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-12</u>	<u>6</u> vial	<u>YES</u>	<u>HCL</u>	<u>LANCASTER</u>	<u>TPH-GRO(8015)/BTEX(8260)</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 #211253
 Site Address: 930 Springtown Blvd.
 City: Livermore, CA

Job Number: 385867
 Event Date: 8/6/14 (inclusive)
 Sampler: Gm

Well ID: MW-13
 Well Diameter: 4 in.
 Total Depth: 76.60 ft.
 Depth to Water: 14.65 ft.
21.95 xVF = 0.66 = 14.48 x3 case volume = Estimated Purge Volume: 44 gal.

Date Monitored: 8/6/14

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

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 19.04

Purge Equipment:

Disposable Bailer _____
 Stainless Steel Bailer _____
 Stack Pump X _____
 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: 0 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): 1600
 Sample Time/Date: 1639 8/6/14
 Approx. Flow Rate: _____ gpm.
 Did well de-water? No If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 19.00
 Weather Conditions: Sunny
 Water Color: Cloudy odor: GN Strong
 Sediment Description: Silt

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (uS/mS / umhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
<u>1607</u>	<u>14</u>	<u>7.17</u>	<u>1253</u>	<u>21.3</u>	_____	_____
<u>1615</u>	<u>30</u>	<u>7.10</u>	<u>1276</u>	<u>21.1</u>	_____	_____
<u>1622</u>	<u>44</u>	<u>7.00</u>	<u>1289</u>	<u>21.0</u>	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-13</u>	<u>6 x voa vial</u>	<u>YES</u>	<u>HCL</u>	<u>LANCASTER</u>	<u>TPH-GRO(8015)/BTEX(8260)</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 #211253
 Site Address: 930 Springtown Blvd.
 City: Livermore, CA

Job Number: 385867
 Event Date: 8/6/14 (inclusive)
 Sampler: GM

Well ID: MW-14
 Well Diameter: 4 in.
 Total Depth: 14.37 ft.
 Depth to Water: 12.13 ft.
2.24 xVF = _____ x3 case volume = Estimated Purge Volume: ✓ gal.

Date Monitored: 8/6/14

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

Check if water column is less than 0.50 ft.

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

Purge Equipment:

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

Sampling Equipment:

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

Time Started:	_____ (2400 hrs)
Time Completed:	_____ (2400 hrs)
Depth to Product:	<u>12.11</u> ft
Depth to Water:	<u>12.13</u> ft
Hydrocarbon Thickness:	<u>0.02</u> 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: _____ Volume: _____ gal. DTW @ Sampling: _____

Weather Conditions: _____
 Water Color: _____ Odor: Y / N
 Sediment Description: _____

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)

COMMENTS: SPH UNABLE TO SAMPLE



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: 8/6/14 (inclusive)
 Sampler: Gm

Well ID: MW-15
 Well Diameter: 4 in.
 Total Depth: 45.79 ft.
 Depth to Water: 12.10 ft.
33.69 xVF 0.66 = 22.23

Date Monitored: 8/6/14

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

Check if water column is less than 0.50 ft.

x3 case volume = Estimated Purge Volume: 63 gal.

Depth to Water w/ 80% Recharge ((Height of Water Column x 0.20) + DTW): 13.83

Purge Equipment:

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

Sampling Equipment:

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

Time Started: _____ (2400 hrs)
 Time Completed: _____ (2400 hrs)
 Depth to Product: _____ ft
 Depth to Water: _____ ft
 Hydrocarbon Thickness: 0 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): 1235
 Sample Time/Date: 1328 / 8/6/14
 Approx. Flow Rate: 2 gpm.
 Did well de-water? No If yes, Time: _____ Volume: _____ gal.
 Weather Conditions: Sunny
 Water Color: Clear Odor: DN SLIGHT
 Sediment Description: NONE
 DTW @ Sampling: 18.77

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C F)	D.O. (mg/L)	ORP (mV)
<u>1246</u>	<u>22</u>	<u>7.97</u>	<u>1899</u>	<u>21.6</u>		
<u>1258</u>	<u>46</u>	<u>7.84</u>	<u>1916</u>	<u>21.6</u>		
<u>1309</u>	<u>68</u>	<u>7.82</u>	<u>1932</u>	<u>21.6</u>		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-15</u>	<u>6 x voa vial</u>	<u>YES</u>	<u>HCL</u>	<u>LANCASTER</u>	<u>TPH-GRO(8015)/BTEX(8260)</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 #211253
 Site Address: 930 Springtown Blvd.
 City: Livermore, CA

Job Number: 385867
 Event Date: 8/6/14 (inclusive)
 Sampler: GM

Well ID: MW-16
 Well Diameter: 4 in.
 Total Depth: 29.17 ft.
 Depth to Water: 12.33 ft.
16.84 xVF = 0.66 = 11.11

Date Monitored: 8/6/14

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

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 15.69

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

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

Time Started:	_____ (2400 hrs)
Time Completed:	_____ (2400 hrs)
Depth to Product:	_____ ft
Depth to Water:	_____ ft
Hydrocarbon Thickness:	<u>0</u> ft
Visual Confirmation/Description:	_____
Skimmer / Absorbant Sock (circle one)	
Amt Removed from Skimmer:	_____ ltr
Amt Removed from Well:	_____ ltr
Water Removed:	_____ ltr

Start Time (purge): 1135 Weather Conditions: SUNNY
 Sample Time/Date: 1215/8/6/14 Water Color: CLEAR Odor: YDN SLIGHT
 Approx. Flow Rate: - gpm. Sediment Description: SLT SLT
 Did well de-water? NO If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 15.16

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (°C / F)	D.O. (mg/L)	ORP (mV)
<u>1141</u>	<u>12</u>	<u>7.39</u>	<u>1633</u>	<u>21.6</u>	_____	_____
<u>1147</u>	<u>24</u>	<u>7.31</u>	<u>1669</u>	<u>21.6</u>	_____	_____
<u>1153</u>	<u>34</u>	<u>7.25</u>	<u>1665</u>	<u>21.7</u>	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-16</u>	<u>6</u> x vial	<u>YES</u>	<u>HCL</u>	<u>LANCASTER</u>	<u>TPH-GRO(8015)/BTEX(8260)</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 #211253
 Site Address: 930 Springtown Blvd.
 City: Livermore, CA

Job Number: 385867
 Event Date: 8/6/14 (inclusive)
 Sampler: GM

Well ID: MW-17
 Well Diameter: 4 in.
 Total Depth: 37.05 ft.
 Depth to Water: 15.86 ft.
21.19 xVF 0.66 = 13.98

Date Monitored: 8/6/14

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

Check if water column is less than 0.50 ft.

x3 case volume = Estimated Purge Volume: 42 gal.
 Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 20.09

Purge Equipment:

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

Sampling Equipment:

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

Time Started:	_____ (2400 hrs)
Time Completed:	_____ (2400 hrs)
Depth to Product:	_____ ft
Depth to Water:	_____ ft
Hydrocarbon Thickness:	<u>0</u> 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): 1345
 Sample Time/Date: 1428 8/6/14
 Approx. Flow Rate: 2 gpm.
 Did well de-water? NO If yes, Time: _____ Volume: _____ gal.

Weather Conditions: SUNNY
 Water Color: Clear Odor: YDN SLIGHT
 Sediment Description: None
 DTW @ Sampling: 19.93

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS/mS µmhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
<u>1352</u>	<u>14</u>	<u>7.95</u>	<u>1578</u>	<u>22.1</u>		
<u>1359</u>	<u>28</u>	<u>7.89</u>	<u>1591</u>	<u>21.9</u>		
<u>1406</u>	<u>42</u>	<u>7.81</u>	<u>1609</u>	<u>21.9</u>		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-17</u>	<u>6 x vial</u>	<u>YES</u>	<u>HCL</u>	<u>LANCASTER</u>	<u>TPH-GRO(8015)/BTEX(8260)</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 #211253
 Site Address: 930 Springtown Blvd.
 City: Livermore, CA

Job Number: 385867
 Event Date: 8/6/14 (inclusive)
 Sampler: GJM

Well ID: MW-18
 Well Diameter: 4 in.
 Total Depth: 14.60 ft.
 Depth to Water: 13.92 ft.
0.68 xVF _____ = _____ x3 case volume = Estimated Purge Volume: _____ gal.

Date Monitored: 8/6/14

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

Check if water column is less than 0.50 ft.

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

Purge Equipment:

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

Sampling Equipment:

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

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

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

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

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

LABORATORY INFORMATION

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

COMMENTS: INSUFFICIENT H₂O



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: 8/6/14 (inclusive)
 Sampler: Gm

Well ID: MW-19
 Well Diameter: 4 in.
 Total Depth: 14.37 ft.
 Depth to Water: 14.19 ft.
0.68 xVF _____ = _____ x3 case volume = Estimated Purge Volume: _____ gal.

Date Monitored: 8/6/14

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

Check if water column is less than 0.50 ft.

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

Purge Equipment:

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

Sampling Equipment:

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

Time Started: _____ (2400 hrs)
 Time Completed: _____ (2400 hrs)
 Depth to Product: _____ ft
 Depth to Water: _____ ft
 Hydrocarbon Thickness: 0 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)

COMMENTS: INSUFFICIENT H₂O



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #211253 Job Number: 385867
 Site Address: 930 Springtown Blvd. Event Date: 8/6/14 (inclusive)
 City: Livermore, CA Sampler: Gas

Well ID MW-20

Date Monitored: 8/6/14

Well Diameter 4 in.

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

Total Depth 14.62 ft.

Depth to Water 11.32 ft.

Check if water column is less than 0.50 ft.

3.30 xVF 0.66 = 2.17 x3 case volume = Estimated Purge Volume: 7 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 11.98

Purge Equipment:

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

Sampling Equipment:

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

Time Started: _____ (2400 hrs)
 Time Completed: _____ (2400 hrs)
 Depth to Product: _____ ft
 Depth to Water: _____ ft
 Hydrocarbon Thickness: Ø 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): 1510 Weather Conditions: Sunny
 Sample Time/Date: 1545 / 8/6/14 Water Color: Cloudy Odor: YN Moderate
 Approx. Flow Rate: _____ gpm. Sediment Description: Silt
 Did well de-water? No If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 11.69

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (°C / °F)	D.O. (mg/L)	ORP (mV)
<u>1517</u>	<u>2.5</u>	<u>7.44</u>	<u>1401</u>	<u>23.1</u>	_____	_____
<u>1517</u>	<u>5</u>	<u>7.35</u>	<u>1419</u>	<u>23.0</u>	_____	_____
<u>1522</u>	<u>7</u>	<u>7.34</u>	<u>1435</u>	<u>23.1</u>	_____	_____

LABORATORY INFORMATION

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

COMMENTS:

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

Chevron California Region Analysis Request/Chain of Custody



Lancaster Laboratories

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 SSW211253-OML G-R-385867 Global ID#10600101353				Soil <input type="checkbox"/> Sediment <input type="checkbox"/> Potable <input type="checkbox"/> Ground <input checked="" type="checkbox"/> Surface <input type="checkbox"/> Water <input type="checkbox"/> NPDES <input type="checkbox"/> Oil <input type="checkbox"/> Air <input type="checkbox"/>				Total Number of Containers BTEX + 8260 8021 <input type="checkbox"/> 8260 <input checked="" type="checkbox"/> TPH-GRO 8015 <input checked="" type="checkbox"/> 8260 <input type="checkbox"/> TPH-DRO 8015 without Silica Gel Cleanup <input type="checkbox"/> TPH-DRO 8015 with Silica Gel Cleanup <input type="checkbox"/> 8260 Full Scan Oxygenates Total Lead Method _____ Dissolved Lead Method _____													
Site Address 629 SPRINGTOWN BLVD., LIVERMORE, CA																					
Client CRASB Lead Silva																					
Consultant Grinc-Ryan, Inc., 6805 Sierra Court, Suite G, Dublin, CA 94568																					
Consultant Project Mgr. Deanna L. Harding, deanna@grinc.com																					
Consulting Phone (925) 551-7444 x180				3																	
Sampler GILBERT MEDINA				Composite																	
2 Sample Identification		Soil Depth		Collected		Grab															
				Date		Time															
QA				8/6/14		-		X													
MW-10						1750		W													
MW-12						1730		W													
MW-13						1639		W													
MW-15						1328		W													
MW-16						1215		W													
MW-17						1428		W													
MW-20						1545		W													

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

7 Turnaround Time Requested (TAT) (please circle)				Relinquished by				Date		Time		Received by		Date		Time	
Standard <input checked="" type="radio"/> 5 day 4 day 72 hour 48 hour 24 hour EDF/EDD								8/7/14									

8 Data Package (circle if required)		EDD (circle if required)		Relinquished by Commercial Carrier:				Received by		Date		Time	
Type I - Full		EDFFLAT (default)		UPS <input checked="" type="checkbox"/> FedEx _____ Other _____									
Type VI (Raw Data)		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

August 14, 2014

Project: 211253

Submittal Date: 08/08/2014
Group Number: 1494654
PO Number: 0015141332
Release Number: CMACLEOD
State of Sample Origin: CA

Client Sample Description

<u>Client Sample Description</u>	<u>Lancaster Labs (LL) #</u>
QA-T-140806 NA Water	7558666
MW-10-W-140806 Grab Groundwater	7558667
MW-12-W-140806 Grab Groundwater	7558668
MW-13-W-140806 Grab Groundwater	7558669
MW-15-W-140806 Grab Groundwater	7558670
MW-16-W-140806 Grab Groundwater	7558671
MW-17-W-140806 Grab Groundwater	7558672
MW-20-W-140806 Grab Groundwater	7558673

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

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

Respectfully Submitted,



Amek Carter
Specialist

(717) 556-7252

Sample Description: QA-T-140806 NA Water
Facility# 211253 Job# 385867 GRD
930 Springtown-Livermore T0600101353

LL Sample # WW 7558666
LL Group # 1494654
Account # 10904

Project Name: 211253

Collected: 08/06/2014

Chevron

Submitted: 08/08/2014 09:30

L4310

Reported: 08/14/2014 21:27

6001 Bollinger Canyon Rd.
San Ramon CA 94583

SBLQA

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

CA ELAP Lab Certification No. 2792

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10943	BTEX 8260B Water	SW-846 8260B	1	D142231AA	08/11/2014 12:46	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D142231AA	08/11/2014 12:46	Daniel H Heller	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	14223C20A	08/13/2014 12:51	Miranda P Tillinghast	1
01146	GC VOA Water Prep	SW-846 5030B	1	14223C20A	08/13/2014 12:51	Miranda P Tillinghast	1

Sample Description: MW-10-W-140806 Grab Groundwater
Facility# 211253 Job# 385867 GRD
930 Springtown-Livermore T0600101353

LL Sample # WW 7558667
LL Group # 1494654
Account # 10904

Project Name: 211253

Collected: 08/06/2014 17:50 by GM Chevron
L4310
Submitted: 08/08/2014 09:30 6001 Bollinger Canyon Rd.
Reported: 08/14/2014 21:27 San Ramon CA 94583

SBL10

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

CA ELAP Lab Certification No. 2792

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10943	BTEX 8260B Water	SW-846 8260B	1	D142231AA	08/11/2014 18:31	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D142231AA	08/11/2014 18:31	Daniel H Heller	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	14223C20A	08/13/2014 19:36	Miranda P Tillinghast	1
01146	GC VOA Water Prep	SW-846 5030B	1	14223C20A	08/13/2014 19:36	Miranda P Tillinghast	1

Sample Description: MW-12-W-140806 Grab Groundwater
Facility# 211253 Job# 385867 GRD
930 Springtown-Livermore T0600101353

LL Sample # WW 7558668
LL Group # 1494654
Account # 10904

Project Name: 211253

Collected: 08/06/2014 17:30 by GM Chevron
L4310
Submitted: 08/08/2014 09:30 6001 Bollinger Canyon Rd.
Reported: 08/14/2014 21:27 San Ramon CA 94583

SBL12

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B ug/l					
10943	Benzene	71-43-2	20	5	10
10943	Ethylbenzene	100-41-4	25	5	10
10943	Toluene	108-88-3	13	5	10
10943	Xylene (Total)	1330-20-7	59	5	10
GC Volatiles SW-846 8015B ug/l					
01728	TPH-GRO N. CA water C6-C12	n.a.	4,200	50	1

General Sample Comments

CA ELAP Lab Certification No. 2792

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10943	BTEX 8260B Water	SW-846 8260B	1	D142231AA	08/11/2014 18:54	Daniel H Heller	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D142231AA	08/11/2014 18:54	Daniel H Heller	10
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	14223C20A	08/13/2014 21:23	Miranda P Tillinghast	1
01146	GC VOA Water Prep	SW-846 5030B	1	14223C20A	08/13/2014 21:23	Miranda P Tillinghast	1

Sample Description: MW-13-W-140806 Grab Groundwater
Facility# 211253 Job# 385867 GRD
930 Springtown-Livermore T0600101353

LL Sample # WW 7558669
LL Group # 1494654
Account # 10904

Project Name: 211253

Collected: 08/06/2014 16:39 by GM Chevron
L4310
Submitted: 08/08/2014 09:30 6001 Bollinger Canyon Rd.
Reported: 08/14/2014 21:27 San Ramon CA 94583

SBL13

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B ug/l					
10943	Benzene	71-43-2	920	5	10
10943	Ethylbenzene	100-41-4	370	5	10
10943	Toluene	108-88-3	1,900	5	10
10943	Xylene (Total)	1330-20-7	2,500	5	10
GC Volatiles SW-846 8015B ug/l					
01728	TPH-GRO N. CA water C6-C12	n.a.	19,000	500	10

General Sample Comments

CA ELAP Lab Certification No. 2792

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10943	BTEX 8260B Water	SW-846 8260B	1	D142231AA	08/11/2014 19:17	Daniel H Heller	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D142231AA	08/11/2014 19:17	Daniel H Heller	10
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	14223D20A	08/13/2014 22:58	Miranda P Tillinghast	10
01146	GC VOA Water Prep	SW-846 5030B	1	14223D20A	08/13/2014 22:58	Miranda P Tillinghast	10

Sample Description: MW-15-W-140806 Grab Groundwater
Facility# 211253 Job# 385867 GRD
930 Springtown-Livermore T0600101353

LL Sample # WW 7558670
LL Group # 1494654
Account # 10904

Project Name: 211253

Collected: 08/06/2014 13:28 by GM Chevron
L4310
Submitted: 08/08/2014 09:30 6001 Bollinger Canyon Rd.
Reported: 08/14/2014 21:27 San Ramon CA 94583

SBL15

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

CA ELAP Lab Certification No. 2792

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10943	BTEX 8260B Water	SW-846 8260B	1	F142252AA	08/13/2014 13:46	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F142252AA	08/13/2014 13:46	Anita M Dale	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	14223D20A	08/13/2014 17:34	Miranda P Tillinghast	1
01146	GC VOA Water Prep	SW-846 5030B	1	14223D20A	08/13/2014 17:34	Miranda P Tillinghast	1

Sample Description: MW-16-W-140806 Grab Groundwater
Facility# 211253 Job# 385867 GRD
930 Springtown-Livermore T0600101353

LL Sample # WW 7558671
LL Group # 1494654
Account # 10904

Project Name: 211253

Collected: 08/06/2014 12:15 by GM Chevron
L4310
Submitted: 08/08/2014 09:30 6001 Bollinger Canyon Rd.
Reported: 08/14/2014 21:27 San Ramon CA 94583

SBL16

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

CA ELAP Lab Certification No. 2792

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10943	BTEX 8260B Water	SW-846 8260B	1	F142252AA	08/13/2014 14:08	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F142252AA	08/13/2014 14:08	Anita M Dale	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	14223D20A	08/13/2014 13:31	Miranda P Tillinghast	1
01146	GC VOA Water Prep	SW-846 5030B	1	14223D20A	08/13/2014 13:31	Miranda P Tillinghast	1

Sample Description: MW-17-W-140806 Grab Groundwater
Facility# 211253 Job# 385867 GRD
930 Springtown-Livermore T0600101353

LL Sample # WW 7558672
LL Group # 1494654
Account # 10904

Project Name: 211253

Collected: 08/06/2014 14:28 by GM Chevron
L4310
Submitted: 08/08/2014 09:30 6001 Bollinger Canyon Rd.
Reported: 08/14/2014 21:27 San Ramon CA 94583

SBL17

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

CA ELAP Lab Certification No. 2792

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10943	BTEX 8260B Water	SW-846 8260B	1	F142252AA	08/13/2014 14:30	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F142252AA	08/13/2014 14:30	Anita M Dale	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	14223D20A	08/13/2014 13:58	Miranda P Tillinghast	1
01146	GC VOA Water Prep	SW-846 5030B	1	14223D20A	08/13/2014 13:58	Miranda P Tillinghast	1

Sample Description: MW-20-W-140806 Grab Groundwater
Facility# 211253 Job# 385867 GRD
930 Springtown-Livermore T0600101353

LL Sample # WW 7558673
LL Group # 1494654
Account # 10904

Project Name: 211253

Collected: 08/06/2014 15:45 by GM Chevron
L4310
Submitted: 08/08/2014 09:30 6001 Bollinger Canyon Rd.
Reported: 08/14/2014 21:27 San Ramon CA 94583

SBL20

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	3	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.	1,600	50	1

General Sample Comments

CA ELAP Lab Certification No. 2792

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10943	BTEX 8260B Water	SW-846 8260B	1	F142252AA	08/13/2014 14:52	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F142252AA	08/13/2014 14:52	Anita M Dale	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	14223D20A	08/13/2014 18:01	Miranda P Tillinghast	1
01146	GC VOA Water Prep	SW-846 5030B	1	14223D20A	08/13/2014 18:01	Miranda P Tillinghast	1

Quality Control Summary

Client Name: Chevron
Reported: 08/14/14 at 09:27 PM

Group Number: 1494654

Surrogate Quality Control

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7558666	107	103	91	95
7558667	107	102	90	96
7558668	106	102	91	98
7558669	106	99	92	99
Blank	107	103	92	97
LCS	106	104	90	99
LCSD	104	104	91	101
Limits:	80-116	77-113	80-113	78-113

Analysis Name: UST VOCs by 8260B - Water
Batch number: F142252AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7558670	99	103	98	95
7558671	98	98	96	93
7558672	99	104	97	94
7558673	98	97	98	97
Blank	95	101	100	92
LCS	95	107	98	96
MS	97	97	99	98
MSD	97	101	98	98
Limits:	80-116	77-113	80-113	78-113

Analysis Name: TPH-GRO N. CA water C6-C12
Batch number: 14223C20A
Trifluorotoluene-F

7558666	77
7558667	81
7558668	153*
Blank	78
LCS	78
LCSD	82
Limits:	63-135

Analysis Name: TPH-GRO N. CA water C6-C12
Batch number: 14223D20A
Trifluorotoluene-F

7558669	111
7558670	88
7558671	89
7558672	88
7558673	127
Blank	92
LCS	92
LCSD	97
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.

Quality Control Summary

Client Name: Chevron
Reported: 08/14/14 at 09:27 PM

Group Number: 1494654

*- 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

Acct. # 10904

For Eurofins Lancaster Laboratories use only

Group # 1494654 Sample # 7558666-73

Instructions on reverse side correspond with circled numbers.

(1) Client Information				(4) Matrix				(5) Analyses Requested												COR # _____					
Facility # SS#211253-OML G-R#385867 Global ID#T0600101353 Site Address 930 SPRINGTOWN BLVD., LIVERMORE, CA Chevron PM CM CRASB Lead Consultant Silva Consultant/Office Getter-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 GILBERT MEDINA				<input type="checkbox"/> Sediment <input checked="" type="checkbox"/> Ground <input type="checkbox"/> Surface <input type="checkbox"/> Potable <input type="checkbox"/> NPDES <input type="checkbox"/> Air <input type="checkbox"/> Oil Total Number of Containers _____				<input checked="" type="checkbox"/> 8260 <input type="checkbox"/> 8021 <input checked="" type="checkbox"/> 8015 <input type="checkbox"/> TPH-DRO 8015 without Silica Gel Cleanup <input type="checkbox"/> TPH-DRO 8015 with Silica Gel Cleanup <input type="checkbox"/> 8260 Full Scan Oxygenates _____ Total Lead _____ Method _____ Dissolved Lead _____ Method _____												<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		Collected		Grab	Composite	Soil	Water	Oil	Total Number of Containers	BTEX +	TPH-GRO	TPH-DRO 8015 without Silica Gel Cleanup	TPH-DRO 8015 with Silica Gel Cleanup	8260 Full Scan	Oxygenates	Total Lead	Dissolved Lead	Method	Method	(6) Remarks			
Date	Time	Date	Time	Please forward the lab results directly to the Lead Consultant and cc: G-R.																					
QA		8/6/14				X						2	X	X											
MW-10			1750									6													
MW-12			1730																						
MW-13			1639																						
MW-15			1328																						
MW-16			1215																						
MW-17			1428																						
MW-20			1545																						
(7) Turnaround Time Requested (TAT) (please circle)				Relinquished by <i>[Signature]</i>				Date		Time		Received by				Date		Time		(9)					
<input checked="" type="radio"/> Standard 5 day <input type="radio"/> 72 hour				<input type="radio"/> 4 day <input type="radio"/> 24 hour				8/7/14																	
<input type="radio"/> EDF/EDD																									
(8) Data Package (circle if required)		EDD (circle if required)		Relinquished by Commercial Carrier:				Received by <i>[Signature]</i>				Date		Time		Custody Seals Intact? <input checked="" type="radio"/> Yes <input type="radio"/> No									
Type I - Full		EDFFLAT (default)		UPS <input checked="" type="checkbox"/> FedEx _____ Other _____								8-8-14		0930											
Type VI (Raw Data)		Other: _____		Temperature Upon Receipt <u>1.3</u> °C																					

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

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

Data Qualifiers:

C – result confirmed by reanalysis.

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

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

Inorganic Qualifiers

A	TIC is a possible aldol-condensation product	B	Value is $<$ CRDL, but \geq IDL
B	Analyte was also detected in the blank	E	Estimated due to interference
C	Pesticide result confirmed by GC/MS	M	Duplicate injection precision not met
D	Compound quantitated on a diluted sample	N	Spike sample not within control limits
E	Concentration exceeds the calibration range of the instrument	S	Method of standard additions (MSA) used for calculation
N	Presumptive evidence of a compound (TICs only)	U	Compound was not detected
P	Concentration difference between primary and confirmation columns $>$ 25%	W	Post digestion spike out of control limits
U	Compound was not detected	*	Duplicate analysis not within control limits
X,Y,Z	Defined in case narrative	+	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.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

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 performed.

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.