



Carryl MacLeod
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Marketing Business Unit

**Chevron Environmental
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July 28, 2014

RECEIVED

By Alameda County Environmental Health at 2:53 pm, Jul 31, 2014

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

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

I accept the Second 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 Second 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 cursive script that reads "Carryl MacLeod".

Carryl MacLeod
Project Manager

Attachment: Second 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>

July 25, 2014

Reference No. 312264

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

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

Dear Mr. Wickham:

Conestoga-Rovers & Associates (CRA) is submitting this *Second 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 and Sampling Data Package* is included as Attachment A. Current and historical groundwater monitoring and sampling data are presented in Table 1 and current data are shown on Figure 2. Eurofins Lancaster Laboratories Environmental, LLCs' *Analytical Results* report is included as Attachment B.

RESULTS OF SECOND QUARTER 2014 EVENT

On June 19, 2014, G-R monitored the site wells per the established schedule; however, only one of the six wells scheduled for sampling was sampled due to insufficient water.

Results of the current monitoring event indicate the following:

- | | |
|--|---|
| • Shallow Groundwater Flow Direction | Southwest |
| • Shallow Hydraulic Gradient | 0.3 |
| • Deep Groundwater Flow Direction | Not monitored during second quarter |
| • Deep Hydraulic Gradient | Not monitored during second quarter |
| • Approximate Depth to Water - Shallow | 28 to 39 feet below grade |
| • Approximate Depth to Water - Deep | Not monitored during the second quarter |

Equal
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July 25, 2014

Reference No. 312264

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

| TABLE A: GROUNDWATER ANALYTICAL DATA | | | | | | |
|---|--|------------------------|---------------------------|---------------------------|--------------------------------|-------------------------------------|
| Well ID | TPHd* (µg/L) | TPHg (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Total Xylenes (µg/L) |
| ESLs | 100 | 100 | 1 | 40 | 30 | 20 |
| MW-1 | Monitored and sampled during 1 st and 3 rd quarters only | | | | | |
| MW-2 | | | | | | |
| MW-3 | | | | | | |
| MW-4 | | | | | | |
| MW-5 | | | | | | |
| MW-6 | | | | | | |
| MW-7 | Not sampled - Insufficient water | | | | | |
| MW-8 | | | | | | |
| MW-9 | | | | | | |
| MW-10 | | | | | | |
| MW-11 | | | | | | |
| MW-12 | 1,000/260 | 3,000 | 23 | 2 | 18 | 13 |
| ESL | San Francisco Bay Region-Regional Water Quality Control Board, (RWQCB), 2008, <i>Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater</i> , Interim final, May 2013, Table F-1a. | | | | | |
| NA | Not Analyzed | | | | | |
| * | Analyzed without and with 10 gram silica gel cleanup | | | | | |
| Concentrations in BOLD exceed ESLs | | | | | | |

CONCLUSIONS AND RECOMMENDATIONS

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

- TPHd, TPHg, and to a lesser extent, benzene are the primary constituents of concern at the site.
- Only shallow zone well MW-12 had sufficient water for sample collection during this event. Analytical results are consistent with historical results.

As recently installed wells (MW-10 through MW-12) have been monitored and sampled (where there was sufficient water to sample) over the last two years, the monitoring and sampling frequency will be reduced to semi-annual starting with the third quarter 2014 unless otherwise



**CONESTOGA-ROVERS
& ASSOCIATES**

July 25, 2014

Reference No. 312264

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

ANTICIPATED FUTURE ACTIVITIES

Groundwater Monitoring

G-R will initiate semi-annual monitoring and sampling of site wells during the third quarter 2014. CRA will submit a groundwater monitoring and sampling report.

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

Sincerely,
CONESTOGA-ROVERS & ASSOCIATES

Brian Silva

Greg Barclay, PG 6260



BS/aa/32
Encl.

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

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

FIGURES

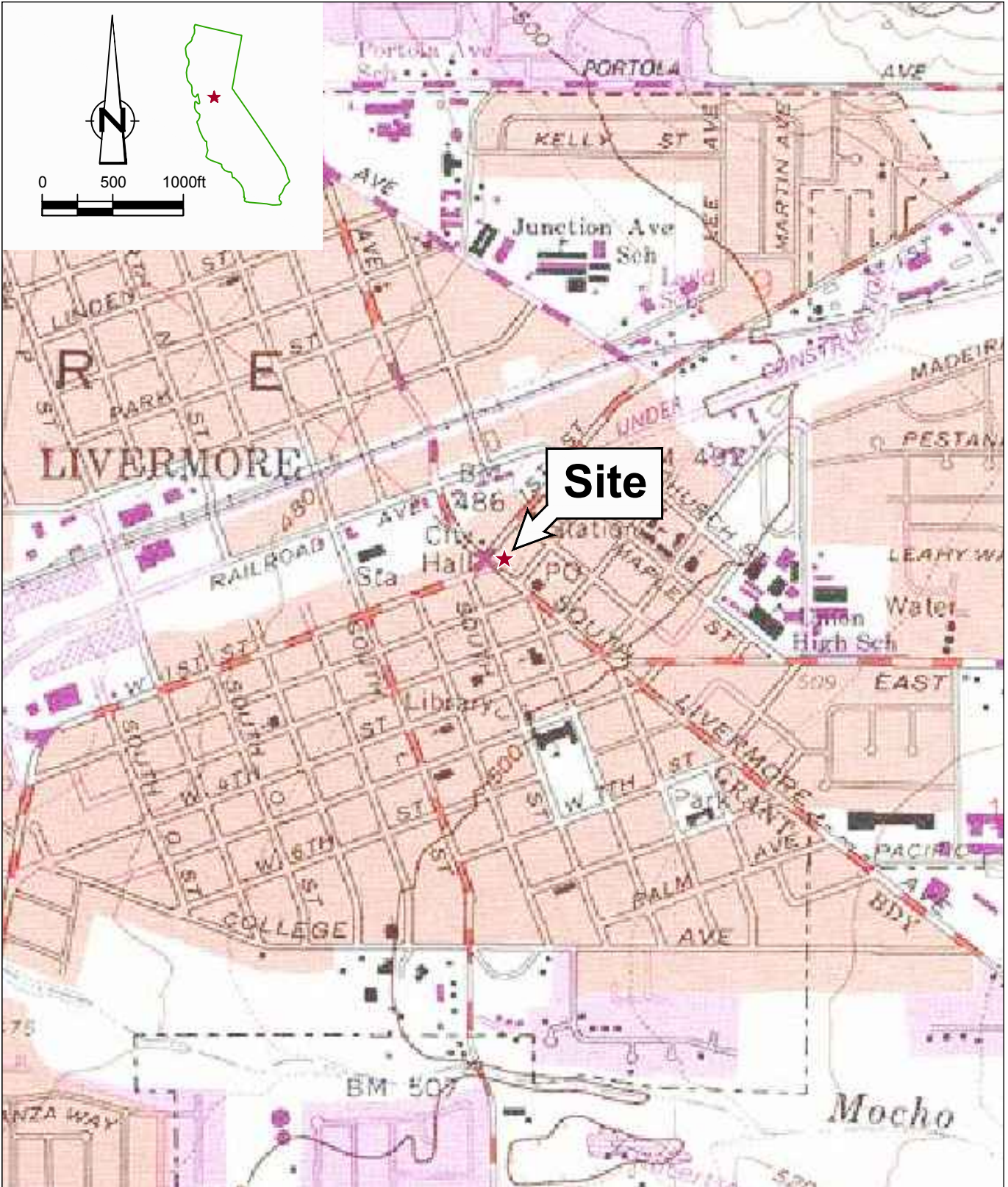


Figure 1
 VICINITY MAP
 FORMER TEXACO STATION (CHEVRON SITE 307233)
 2259 FIRST STREET
 Livermore, California



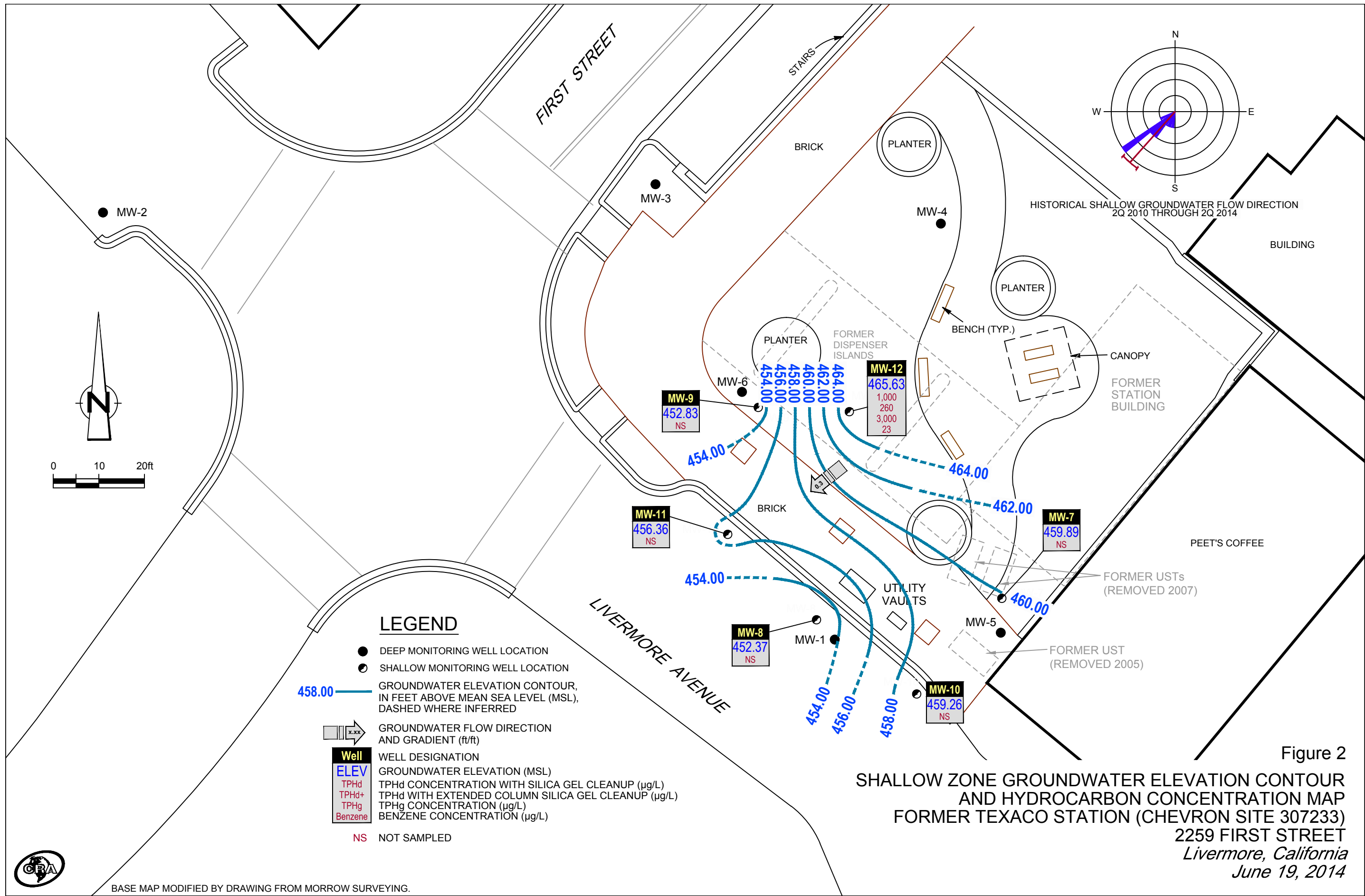


Figure 2
SHALLOW ZONE GROUNDWATER ELEVATION CONTOUR AND HYDROCARBON CONCENTRATION MAP
 FORMER TEXACO STATION (CHEVRON SITE 307233)
 2259 FIRST STREET
 Livermore, California
 June 19, 2014



BASE MAP MODIFIED BY DRAWING FROM MORROW SURVEYING.

TABLES

TABLE 1

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

| Location | Date | TOC | DTW | GWE | LNAPL | LNAPL REMOVED | TPH-DRO | TPH-DRO w/ Si Gel | TPH-GRO | B | T | E | X | Nitrate Nitrogen | Sulfate | Total sulfide (dissolved) | Ferrous Iron | Alkalinity, total (as CaCO3) | Alkalinity, phenolphthalein | Methane | Calcium | |
|-------------|-------------------------------|---------------|----------|----------|-------------|---------------|----------|-------------------|----------|----------|----------|----------|----------|------------------|----------|---------------------------|--------------|------------------------------|-----------------------------|----------|----------|----------|
| | Units | ft | ft | ft-ansl | ft | gal | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | |
| MW-1 | 05/25/2010 ¹ | 490.86 | 30.62 | 460.24 | 0.00 | 0.00 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-1 | 05/27/2010 | 490.86 | 30.65 | 460.21 | 0.00 | 0.00 | <50 | - | <50 | <0.5 | <0.5 | <0.5 | <0.5 | - | - | - | - | - | - | - | - | - |
| MW-1 | 09/13/2010 | 490.86 | 36.49 | 454.37 | 0.00 | 0.00 | 51 | - | <50 | <0.5 | <0.5 | <0.5 | <0.5 | - | - | - | - | - | - | - | - | - |
| MW-1 | 12/20/2010 | 490.86 | 32.24 | 458.62 | 0.00 | 0.00 | - | 79 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | - | - | - | - | - | - | - | - | - |
| MW-1 | 03/07/2011 | 490.86 | 27.86 | 463.00 | 0.00 | 0.00 | - | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 6,900 | 73,600 | - | <10 | - | - | - | - | - |
| MW-1 | 06/06/2011 | 490.86 | 27.10 | 463.76 | 0.00 | 0.00 | - | 220 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 7,000 | 71,000 | - | <10 | - | - | - | - | - |
| MW-1 | 09/19/2011 | 490.86 | 31.26 | 459.60 | 0.00 | 0.00 | - | 450/<50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | - | - | - | - | - | - | - | - | - |
| MW-1 | 03/09/2012 ⁷ | 490.86 | - | - | 0.00 | 0.00 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-1 | 03/12/2012 ⁴ | 490.86 | 41.35 | 449.51 | 0.00 | 0.00 | - | <50/<50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | - | - | - | - | - | - | - | - | - |
| MW-1 | 06/04/2012 ⁷ | 490.86 | - | - | 0.00 | 0.00 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-1 | 09/10/2012 ⁴ | 490.86 | 40.67 | 450.19 | 0.00 | 0.00 | - | <50 / <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | - | - | - | - | - | - | - | - | - |
| MW-1 | 12/10/2012 ⁷ | 490.86 | - | - | 0.00 | 0.00 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-1 | 03/04/2013 ⁴ | 490.86 | 30.35 | 460.51 | 0.00 | 0.00 | - | 170 / <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | - | - | - | - | - | - | - | - | - |
| MW-1 | 06/03/2013 ⁷ | 490.86 | - | - | 0.00 | 0.00 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-1 | 09/09/2013 ⁴ | 490.86 | 34.08 | 456.78 | 0.00 | 0.00 | - | <50 / <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | - | - | - | - | - | - | - | - | - |
| MW-1 | 12/09/2013 ⁷ | 490.86 | - | - | 0.00 | 0.00 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-1 | 03/27/2014 ⁴ | 490.86 | 35.48 | 455.38 | 0.00 | 0.00 | - | <50 / <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | - | - | - | - | - | - | - | - | - |
| MW-1 | 06/19/2014⁷ | 490.86 | - | - | 0.00 | 0.00 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-2 | 05/25/2010 ¹ | 489.43 | 31.18 | 458.25 | 0.00 | 0.00 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-2 | 05/27/2010 | 489.43 | 31.11 | 458.32 | 0.00 | 0.00 | <50 | - | <50 | <0.5 | <0.5 | <0.5 | <0.5 | - | - | - | - | - | - | - | - | - |
| MW-2 | 09/13/2010 | 489.43 | 36.96 | 452.47 | 0.00 | 0.00 | <50 | - | <50 | <0.5 | <0.5 | <0.5 | <0.5 | - | - | - | - | - | - | - | - | - |
| MW-2 | 12/20/2010 | 489.43 | 32.62 | 456.81 | 0.00 | 0.00 | - | 52 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | - | - | - | - | - | - | - | - | - |
| MW-2 | 03/07/2011 | 489.43 | 28.26 | 461.17 | 0.00 | 0.00 | - | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 3,600 | 45,900 | - | 20 | - | - | - | - | - |
| MW-2 | 06/06/2011 | 489.43 | 27.73 | 461.70 | 0.00 | 0.00 | - | 220 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 2,900 | 43,600 | - | <10 | - | - | - | - | - |
| MW-2 | 09/19/2011 | 489.43 | 31.92 | 457.51 | 0.00 | 0.00 | - | 230/<50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | - | - | - | - | - | - | - | - | - |
| MW-2 | 03/09/2012 ⁷ | 489.43 | - | - | 0.00 | 0.00 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-2 | 03/12/2012 ⁴ | 489.43 | 41.84 | 447.59 | 0.00 | 0.00 | - | <50/<50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | - | - | - | - | - | - | - | - | - |
| MW-2 | 06/04/2012 ⁷ | 489.43 | - | - | 0.00 | 0.00 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-2 | 09/10/2012 ⁴ | 489.43 | 41.32 | 448.11 | 0.00 | 0.00 | - | <50 / <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | - | - | - | - | - | - | - | - | - |

TABLE 1

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

| Location | Date | TOC | DTW | GWE | LNAPL | LNAPL REMOVED | TPH-DRO | TPH-DRO w/ Si Gel | TPH-GRO | B | T | E | X | Nitrate Nitrogen | Sulfate | Total sulfide (dissolved) | Ferrous Iron | Alkalinity, total (as CaCO3) | Alkalinity, phenolphthalein | Methane | Calcium |
|-------------|-------------------------------|---------------|-------|---------|-------------|---------------|---------|-------------------|---------|------|------|------|------|------------------|---------|---------------------------|--------------|------------------------------|-----------------------------|---------|---------|
| | Units | ft | ft | ft-anst | ft | gal | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L |
| MW-2 | 12/10/2012 ⁷ | 489.43 | - | - | 0.00 | 0.00 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-2 | 03/04/2013 ⁴ | 489.43 | 30.91 | 458.52 | 0.00 | 0.00 | - | <50 / <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | - | - | - | - | - | - | - | - |
| MW-2 | 06/03/2013 ⁷ | 489.43 | - | - | 0.00 | 0.00 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-2 | 09/09/2013 ⁴ | 489.43 | 34.76 | 454.67 | 0.00 | 0.00 | - | <50 / <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | - | - | - | - | - | - | - | - |
| MW-2 | 12/09/2013 ⁷ | 489.43 | - | - | 0.00 | 0.00 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-2 | 03/27/2014 ⁴ | 489.43 | 35.84 | 453.59 | 0.00 | 0.00 | - | 91 / <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | - | - | - | - | - | - | - | - |
| MW-2 | 06/19/2014⁷ | 489.43 | - | - | 0.00 | 0.00 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-3 | 05/25/2010 ¹ | 490.38 | 30.17 | 460.21 | 0.00 | 0.00 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-3 | 05/27/2010 | 490.38 | 30.98 | 459.40 | 0.00 | 0.00 | 610 | - | 2,100 | 2 | <0.5 | <0.5 | 0.9 | - | - | - | - | - | - | - | - |
| MW-3 | 09/13/2010 | 490.38 | 36.77 | 453.61 | 0.00 | 0.00 | <50 | - | <50 | <0.5 | <0.5 | <0.5 | <0.5 | - | - | - | - | - | - | - | - |
| MW-3 | 12/20/2010 | 490.38 | 32.41 | 457.97 | 0.00 | 0.00 | - | 97 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | - | - | - | - | - | - | - | - |
| MW-3 | 03/07/2011 | 490.38 | 28.06 | 462.32 | 0.00 | 0.00 | - | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 4,300 | 70,400 | - | 53 | - | - | - | - |
| MW-3 | 06/06/2011 | 490.38 | 27.28 | 463.10 | 0.00 | 0.00 | - | 110 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 3,900 | 66,400 | - | 17 | - | - | - | - |
| MW-3 | 09/19/2011 | 490.38 | 31.21 | 459.17 | 0.00 | 0.00 | - | 170/230 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | - | - | - | - | - | - | - | - |
| MW-3 | 03/09/2012 ⁷ | 490.38 | - | - | 0.00 | 0.00 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-3 | 03/12/2012 ⁴ | 490.38 | 41.66 | 448.72 | 0.00 | 0.00 | - | <50/<50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | - | - | - | - | - | - | - | - |
| MW-3 | 06/04/2012 ⁷ | 490.38 | - | - | 0.00 | 0.00 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-3 | 09/10/2012 ⁴ | 490.38 | 41.02 | 449.36 | 0.00 | 0.00 | - | <50 / <50 | <50 | <5 | <5 | <5 | <5 | - | - | - | - | - | - | - | - |
| MW-3 | 12/10/2012 ⁷ | 490.38 | - | - | 0.00 | 0.00 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-3 | 03/04/2013 ⁴ | 490.38 | 30.58 | 459.80 | 0.00 | 0.00 | - | 360 / 240 | 1,500 | 150 | 3 | 2 | 3 | - | - | - | - | - | - | - | - |
| MW-3 | 06/03/2013 ⁷ | 490.38 | - | - | 0.00 | 0.00 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-3 | 09/09/2013 ⁴ | 490.38 | 34.38 | 456.00 | 0.00 | 0.00 | - | 250 / 170 | 910 | 50 | 1 | 0.7 | 2 | - | - | - | - | - | - | - | - |
| MW-3 | 12/09/2013 ⁷ | 490.38 | - | - | 0.00 | 0.00 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-3 | 03/27/2014 ⁴ | 490.38 | 35.68 | 454.70 | 0.00 | 0.00 | - | 660 / <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | - | - | - | - | - | - | - | - |
| MW-3 | 06/19/2014⁷ | 490.38 | - | - | 0.00 | 0.00 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-4 | 05/25/2010 ¹ | 492.27 | 32.21 | 460.06 | 0.00 | 0.00 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-4 | 05/27/2010 | 492.27 | 32.26 | 460.01 | 0.00 | 0.00 | 230 | - | 1,800 | 1 | <0.5 | <0.5 | 0.7 | - | - | - | - | - | - | - | - |
| MW-4 | 09/13/2010 | 492.27 | 38.14 | 454.13 | 0.00 | 0.00 | <50 | - | <50 | <0.5 | <0.5 | <0.5 | <0.5 | - | - | - | - | - | - | - | - |

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA
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 LIVERMORE, CALIFORNIA

| Location | Date | TOC | DTW | GWE | LNAPL | LNAPL REMOVED | TPH-DRO | TPH-DRO w/ Si Gel | TPH-GRO | B | T | E | X | Nitrate Nitrogen | Sulfate | Total sulfide (dissolved) | Ferrous Iron | Alkalinity, total (as CaCO3) | Alkalinity, phenolphthalein | Methane | Calcium |
|-------------|-------------------------------|---------------|----------|----------|-------------|---------------|----------|-------------------|----------|----------|----------|----------|----------|------------------|----------|---------------------------|--------------|------------------------------|-----------------------------|----------|----------|
| | Units | ft | ft | ft-ansl | ft | gal | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L |
| MW-4 | 12/20/2010 | 492.27 | 33.80 | 458.47 | 0.00 | 0.00 | - | 180 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | - | - | - | - | - | - | - | - |
| MW-4 | 03/07/2011 | 492.27 | 29.42 | 462.85 | 0.00 | 0.00 | - | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 7,900 | 72,300 | - | 15 | - | - | - | - |
| MW-4 | 06/06/2011 | 492.27 | 28.52 | 463.75 | 0.00 | 0.00 | - | 87 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 7,500 | 67,700 | - | <10 | - | - | - | - |
| MW-4 | 09/19/2011 | 492.27 | 32.78 | 459.49 | 0.00 | 0.00 | - | 330/140 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | - | - | - | - | - | - | - | - |
| MW-4 | 03/09/2012 ⁷ | 492.27 | - | - | 0.00 | 0.00 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-4 | 03/12/2012 ⁴ | 492.27 | 42.99 | 449.28 | 0.00 | 0.00 | - | 130/<50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | - | - | - | - | - | - | - | - |
| MW-4 | 06/04/2012 ⁷ | 492.27 | - | - | 0.00 | 0.00 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-4 | 09/10/2012 ⁴ | 492.27 | 42.30 | 449.97 | 0.00 | 0.00 | - | 580 / 310 | 2,400 | 2 | 0.7 | 2 | 2 | - | - | - | - | - | - | - | - |
| MW-4 | 12/10/2012 ⁷ | 492.27 | - | - | 0.00 | 0.00 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-4 | 03/04/2013 ⁴ | 492.27 | 31.89 | 460.38 | 0.00 | 0.00 | - | 170 / 100 | 350 | <0.5 | <0.5 | 0.6 | <0.5 | - | - | - | - | - | - | - | - |
| MW-4 | 06/03/2013 ⁷ | 492.27 | - | - | 0.00 | 0.00 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-4 | 09/09/2013 ⁴ | 492.27 | 35.67 | 456.60 | 0.00 | 0.00 | - | 76 / 65 | 190 | <0.5 | <0.5 | <0.5 | <0.5 | - | - | - | - | - | - | - | - |
| MW-4 | 12/09/2013 ⁷ | 492.27 | - | - | 0.00 | 0.00 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-4 | 03/27/2014 ⁴ | 492.27 | 37.05 | 455.22 | 0.00 | 0.00 | - | 750 / 530 | 3,000 | 2 | 0.8 | 4 | 3 | - | - | - | - | - | - | - | - |
| MW-4 | 06/19/2014⁷ | 492.27 | - | - | 0.00 | 0.00 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-5 | 05/25/2010 ¹ | 491.99 | 31.39 | 460.60 | 0.00 | 0.00 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-5 | 05/27/2010 | 491.99 | 31.42 | 460.57 | 0.00 | 0.00 | 120 | - | 420 | 2 | <0.5 | <0.5 | 1 | - | - | - | - | - | - | - | - |
| MW-5 | 09/13/2010 | 491.99 | 37.25 | 454.74 | 0.00 | 0.00 | 700 | - | <50 | <0.5 | <0.5 | <0.5 | <0.5 | - | - | - | - | - | - | - | - |
| MW-5 | 12/20/2010 | 491.99 | 33.01 | 458.98 | 0.00 | 0.00 | - | 74 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | - | - | - | - | - | - | - | - |
| MW-5 | 03/07/2011 | 491.99 | 28.60 | 463.39 | 0.00 | 0.00 | - | 93 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 7,900 | 70,100 | - | 23 | - | - | - | - |
| MW-5 | 06/06/2011 | 491.99 | 27.71 | 464.28 | 0.00 | 0.00 | - | <50 | 18,000 | 1,500 | 45 | 450 | 1,700 | <250 | 2,700 | - | 11 | - | - | - | - |
| MW-5 | 06/22/2011 ² | 491.99 | 28.90 | 463.09 | 0.00 | 0.00 | - | - | <50 | <0.5 | <0.5 | <0.5 | <0.5 | - | - | - | - | - | - | - | - |
| MW-5 | 09/19/2011 | 491.99 | 31.94 | 460.05 | 0.00 | 0.00 | - | 240/410 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | - | - | - | - | - | - | - | - |
| MW-5 | 03/09/2012 ⁷ | 491.99 | - | - | 0.00 | 0.00 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-5 | 03/12/2012 ⁴ | 491.99 | 42.15 | 449.84 | 0.00 | 0.00 | - | 95/<50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | - | - | - | - | - | - | - | - |
| MW-5 | 06/4/2012 ⁷ | 491.99 | - | - | 0.00 | 0.00 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-5 | 09/10/2012 ⁴ | 491.99 | 41.39 | 450.60 | 0.00 | 0.00 | - | <50 / <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | - | - | - | - | - | - | - | - |
| MW-5 | 12/10/2012 ⁷ | 491.99 | - | - | 0.00 | 0.00 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-5 | 03/04/2013 ⁴ | 491.99 | 31.07 | 460.92 | 0.00 | 0.00 | - | <50 / <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | - | - | - | - | - | - | - | - |

TABLE 1

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

| Location | Date | TOC | DTW | GWE | LNAPL | LNAPL REMOVED | TPH-DRO | TPH-DRO w/ Si Gel | TPH-GRO | B | T | E | X | Nitrate Nitrogen | Sulfate | Total sulfide (dissolved) | Ferrous Iron | Alkalinity, total (as CaCO3) | Alkalinity, phenolphthalein | Methane | Calcium |
|-------------|-------------------------------|---------------|-------|---------|-------------|---------------|---------|-------------------|---------|-------|------|------|-------|------------------|---------|---------------------------|--------------|------------------------------|-----------------------------|---------|---------|
| | Units | ft | ft | ft-anst | ft | gal | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L |
| MW-5 | 06/03/2013 ⁷ | 491.99 | - | - | 0.00 | 0.00 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-5 | 09/09/2013 ⁴ | 491.99 | 34.79 | 457.20 | 0.00 | 0.00 | - | <50 / <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | - | - | - | - | - | - | - | - |
| MW-5 | 12/09/2013 ⁷ | 491.99 | - | - | 0.00 | 0.00 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-5 | 03/27/2014 ⁴ | 491.99 | 36.18 | 455.81 | 0.00 | 0.00 | - | <50 / <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | - | - | - | - | - | - | - | - |
| MW-5 | 06/19/2014⁷ | 491.99 | - | - | 0.00 | 0.00 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-6 | 05/25/2010 ¹ | 491.52 | 31.63 | 459.89 | 0.00 | 0.00 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-6 | 05/27/2010 | 491.52 | 31.79 | 459.73 | 0.00 | 0.00 | 1,000 | - | 3,700 | 4 | <0.5 | <0.5 | 1 | - | - | - | - | - | - | - | - |
| MW-6 | 09/13/2010 | 491.52 | 37.64 | 453.88 | 0.00 | 0.00 | 68 | - | <50 | <0.5 | <0.5 | <0.5 | <0.5 | - | - | - | - | - | - | - | - |
| MW-6 | 12/20/2010 | 491.52 | 33.32 | 458.20 | 0.00 | 0.00 | - | 140 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | - | - | - | - | - | - | - | - |
| MW-6 | 03/07/2011 | 491.52 | 28.96 | 462.56 | 0.00 | 0.00 | - | 63 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 360 | 55,400 | - | 33 | - | - | - | - |
| MW-6 | 06/06/2011 | 491.52 | 28.08 | 463.44 | 0.00 | 0.00 | - | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 5,300 | 54,000 | - | <10 | - | - | - | - |
| MW-6 | 09/19/2011 | 491.52 | 32.38 | 459.14 | 0.00 | 0.00 | - | <50/380 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | - | - | - | - | - | - | - | - |
| MW-6 | 03/09/2012 ⁷ | 491.52 | - | - | 0.00 | 0.00 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-6 | 03/12/2012 ⁴ | 491.52 | 42.50 | 449.02 | 0.00 | 0.00 | - | 54/<50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | - | - | - | - | - | - | - | - |
| MW-6 | 06/4/2012 ⁷ | 491.52 | - | - | 0.00 | 0.00 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-6 | 09/10/2012 ⁴ | 491.52 | 41.82 | 449.70 | 0.00 | 0.00 | - | 86/<50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | - | - | - | - | - | - | - | - |
| MW-6 | 12/10/2012 ⁷ | 491.52 | - | - | 0.00 | 0.00 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-6 | 03/04/2013 ⁴ | 491.52 | 31.45 | 460.07 | 0.00 | 0.00 | - | 210 / 160 | 210 | 0.6 | <0.5 | <0.5 | <0.5 | - | - | - | - | - | - | - | - |
| MW-6 | 06/03/2013 ⁷ | 491.52 | - | - | 0.00 | 0.00 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-6 | 09/09/2013 ⁴ | 491.52 | 35.22 | 456.30 | 0.00 | 0.00 | - | 120 / 66 | 110 | <0.5 | <0.5 | <0.5 | <0.5 | - | - | - | - | - | - | - | - |
| MW-6 | 12/09/2013 ⁷ | 491.52 | - | - | 0.00 | 0.00 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-6 | 03/27/2014 ⁴ | 491.52 | 36.58 | 454.94 | 0.00 | 0.00 | - | 160 / 160 | 870 | <0.5 | <0.5 | 0.6 | <0.5 | - | - | - | - | - | - | - | - |
| MW-6 | 06/19/2014⁷ | 491.52 | - | - | 0.00 | 0.00 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-7 | 05/25/2010 ¹ | 492.29 | 28.69 | 463.60 | 0.00 | 0.00 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-7 | 05/27/2010 | 492.29 | 28.61 | 463.68 | 0.00 | 0.00 | 2,800 | - | 14,000 | 1,800 | 35 | 320 | 660 | - | - | - | - | - | - | - | - |
| MW-7 | 09/13/2010 | 492.29 | 31.75 | 460.54 | 0.00 | 0.00 | 40,000 | - | 16,000 | 1,700 | 33 | 460 | 600 | - | - | - | - | - | - | - | - |
| MW-7 | 12/20/2010 | 492.29 | 27.96 | 464.33 | 0.00 | 0.00 | - | 6,200 | 15,000 | 2,800 | 59 | 450 | 530 | - | - | - | - | - | - | - | - |
| MW-7 | 03/07/2011 | 492.29 | 24.98 | 467.31 | 0.00 | 0.00 | - | 55,000 | 16,000 | 1,500 | 50 | 470 | 2,100 | <250 | 2,600 | - | 2,800 | - | - | - | - |

TABLE 1

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

| Location | Date | TOC | DTW | GWE | LNAPL | LNAPL REMOVED | TPH-DRO | TPH-DRO w/ Si Gel | TPH-GRO | B | T | E | X | Nitrate Nitrogen | Sulfate | Total sulfide (dissolved) | Ferrous Iron | Alkalinity, total (as CaCO3) | Alkalinity, phenolphthalein | Methane | Calcium |
|-------------|---------------------------------|---------------|--------------|---------------|-------------|---------------|---------|-------------------|---------|-------|------|------|-------|------------------|---------|---------------------------|--------------|------------------------------|-----------------------------|---------|---------|
| | Units | ft | ft | ft-ansl | ft | gal | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L |
| MW-7 | 06/06/2011 | 492.29 | 24.12 | 468.17 | 0.00 | 0.00 | - | 24,000 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 8,000 | 70,300 | - | 4,300 | - | - | - | - |
| MW-7 | 06/22/2011 ² | 492.29 | 26.71 | 465.58 | 0.00 | 0.00 | - | - | 19,000 | 1,800 | 47 | 490 | 2,200 | - | - | - | - | - | - | - | - |
| MW-7 | 09/19/2011 ³ | 492.29 | 28.85 | 463.44 | 0.12 | 0.00 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-7 | 03/09/2012 | 492.29 | - | - | 0.00 | 0.00 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-7 | 03/12/2012 ⁵ | 492.29 | 32.38 | 459.91 | 0.00 | 0.00 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-7 | 06/04/2012 ^{5,6} | 492.29 | 32.38 | 459.91 | 0.00 | 0.00 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-7 | 09/10/2012 ^{5,9} | 492.29 | 32.62 | 459.67 | 0.00 | 0.00 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-7 | 12/10/2012 ^{4,9} | 492.29 | 28.77 | 463.52 | 0.00 | 0.00 | - | 180,000 / 150,000 | 21,000 | 2,300 | 47 | 400 | 550 | - | 250,000 | <54 | 6,000 | 573,000 | - | 12,000 | 179,000 |
| MW-7 | 03/04/2013 ^{4,9} | 492.29 | 29.63 | 462.66 | 0.00 | 0.00 | - | 46,000 / 34,000 | 18,000 | 1,900 | 26 | 370 | 390 | - | 221,000 | 880 | 6,300 | 679,000 | - | 16,000 | 127,000 |
| MW-7 | 06/03/2013 ⁹ | 492.29 | 31.13 | 461.16 | 0.00 | 0.00 | - | - | 21,000 | 1,900 | 23 | 310 | 250 | - | 159,000 | - | - | - | - | 9,500 | - |
| MW-7 | 09/09/2013 ^{5,9} | 492.29 | 32.38 | 459.91 | 0.00 | 0.00 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-7 | 12/09/2013 ^{4,8,9} | 492.29 | 31.78 | 460.51 | 0.00 | 0.00 | - | 94,000 / 82,000 | 17,000 | 2,600 | 22 | 400 | 220 | - | - | - | - | - | - | - | - |
| MW-7 | 03/27/2014 ^{4,8,9} | 492.29 | 30.05 | 462.24 | 0.00 | 0.00 | - | 43,000 / 42,000 | 18,000 | 2,900 | 56 | 440 | 250 | - | 72,000 | 300 | 9,500 | 540,000 | - | 11,000 | 100,000 |
| MW-7 | 06/19/2014^{5,9} | 492.29 | 32.40 | 459.89 | 0.00 | 0.00 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-8 | 05/25/2010 ¹ | 490.89 | 30.62 | 460.27 | 0.00 | 0.00 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-8 | 05/27/2010 | 490.89 | 30.78 | 460.11 | 0.00 | 0.00 | 750 | - | 3,100 | 36 | 3 | <0.5 | 2 | - | - | - | - | - | - | - | - |
| MW-8 | 09/13/2010 | 490.89 | 36.55 | 454.34 | 0.00 | 0.00 | 590 | - | 3,400 | 5 | 2 | <0.5 | 1 | - | - | - | - | - | - | - | - |
| MW-8 | 12/20/2010 | 490.89 | 31.60 | 459.29 | 0.00 | 0.00 | - | 750 | 4,000 | 0.8 | 0.7 | 19 | 3 | - | - | - | - | - | - | - | - |
| MW-8 | 03/07/2011 | 490.89 | 28.20 | 462.69 | 0.00 | 0.00 | - | 1,300 | 2,800 | 0.9 | 0.7 | 12 | 2 | <250 | 7,000 | - | 820 | - | - | - | - |
| MW-8 | 06/06/2011 | 490.89 | 27.38 | 463.51 | 0.00 | 0.00 | - | 4,300 | 3,100 | 0.9 | 0.7 | 5 | 1 | <250 | 2,400 | - | 2,000 | - | - | - | - |
| MW-8 | 09/19/2011 | 490.89 | 31.81 | 459.08 | 0.00 | 0.00 | - | 6,800/720 | 4,600 | 1 | 0.8 | 0.5 | 0.8 | - | - | - | - | - | - | - | - |
| MW-8 | 03/09/2012 | 490.89 | - | - | 0.00 | 0.00 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-8 | 03/12/2012 ⁵ | 490.89 | 38.48 | 452.41 | 0.00 | 0.00 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-8 | 06/04/2012 ^{4,8} | 490.89 | 37.66 | 453.23 | 0.00 | 0.00 | - | 73,000/68,000 | 5,700 | 1 | 0.8 | 2 | 3 | - | <1,500 | <54 | 27,100 | 259,000 | <700 | 2,000 | 31,200 |
| MW-8 | 9/10/2012 ⁵ | 490.89 | 38.73 | 452.16 | 0.00 | 0.00 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-8 | 12/10/2012 ⁴ | 490.89 | 31.64 | 459.25 | 0.00 | 0.00 | - | 4,200 / 3,400 | 5,600 | <3 | <3 | 11 | <3 | - | <1,500 | 130 | 1,600 | 220,000 | - | 2,600 | 18,900 |
| MW-8 | 03/04/2013 ⁴ | 490.89 | 30.85 | 460.04 | 0.00 | 0.00 | - | 9,400 / 6,300 | 4,700 | <3 | <3 | <3 | <3 | - | <1,500 | 150 | 2,500 | 223,000 | - | 2,700 | 22,100 |
| MW-8 | 06/03/2013 ⁴ | 490.89 | 33.60 | 457.29 | 0.00 | 0.00 | - | 1,700 / 1,600 | 5,000 | 17 | 0.9 | <0.5 | 1 | - | 3,000 | <54 | 5,100 | 301,000 | - | 2,500 | 36,400 |
| MW-8 | 09/09/2013 ⁴ | 490.89 | 34.73 | 456.16 | 0.00 | 0.00 | - | 21,000 / 15,000 | 3,900 | 3 | 0.6 | <0.5 | 0.6 | - | <1,500 | <54 | 7,100 | 305,000 | - | 1,000 | 34,700 |

TABLE 1

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

| Location | Date | TOC | DTW | GWE | LNAPL | LNAPL REMOVED | TPH-DRO | TPH-DRO w/ Si Gel | TPH-GRO | B | T | E | X | Nitrate Nitrogen | Sulfate | Total sulfide (dissolved) | Ferrous Iron | Alkalinity, total (as CaCO3) | Alkalinity, phenolphthalein | Methane | Calcium |
|-------------|-------------------------------|---------------|--------------|---------------|-------------|---------------|---------|-------------------|---------|------|------|------|------|------------------|---------|---------------------------|--------------|------------------------------|-----------------------------|---------|---------|
| | Units | ft | ft | ft-ansl | ft | gal | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L |
| MW-8 | 12/09/2013 ⁴ | 490.89 | 33.82 | 457.07 | 0.00 | 0.00 | - | 19,000 / 13,000 | 6,800 | 1 | 0.7 | 3 | 0.9 | - | <1,500 | 220 | 3,200 | 219,000 | - | 2,400 | 22,000 |
| MW-8 | 03/27/2014 ⁴ | 490.89 | 35.58 | 455.31 | 0.00 | 0.00 | - | 34,000 / 38,000 | 6,500 | 1 | 1 | 15 | 2 | - | <1,500 | 240 | 9,600 | 185,000 | - | 3,400 | 31,900 |
| MW-8 | 06/19/2014⁵ | 490.89 | 38.52 | 452.37 | 0.00 | 0.00 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-9 | 05/25/2010 ¹ | 491.64 | 29.23 | 462.41 | 0.00 | 0.00 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-9 | 05/27/2010 | 491.64 | 28.96 | 462.68 | 0.00 | 0.00 | <50 | - | <50 | <0.5 | <0.5 | <0.5 | <0.5 | - | - | - | - | - | - | - | - |
| MW-9 | 09/13/2010 | 491.64 | 31.85 | 459.79 | 0.00 | 0.00 | 30,000 | - | <50 | <0.5 | <0.5 | <0.5 | <0.5 | - | - | - | - | - | - | - | - |
| MW-9 | 12/20/2010 | 491.64 | 28.95 | 462.69 | 0.00 | 0.00 | - | 56 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | - | - | - | - | - | - | - | - |
| MW-9 | 03/07/2011 | 491.64 | 25.67 | 465.97 | 0.00 | 0.00 | - | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <250 | 172,000 | - | 48 | - | - | - | - |
| MW-9 | 06/06/2011 | 491.64 | 24.67 | 466.97 | 0.00 | 0.00 | - | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <250 | 228,000 | - | <10 | - | - | - | - |
| MW-9 | 09/19/2011 | 491.64 | 29.46 | 462.18 | 0.00 | 0.00 | - | 250/<50* | <50 | <0.5 | <0.5 | <0.5 | <0.5 | - | - | - | - | - | - | - | - |
| MW-9 | 03/09/2012 ⁷ | 491.64 | - | - | 0.00 | 0.00 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-9 | 03/12/2012 ⁴ | 491.64 | 34.27 | 457.37 | 0.00 | 0.00 | - | <50/<50* | <50 | <0.5 | <0.5 | <0.5 | <0.5 | - | - | - | - | - | - | - | - |
| MW-9 | 06/04/2012 ⁷ | 491.64 | 35.80 | 455.84 | 0.00 | 0.00 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-9 | 9/10/2012 ⁴ | 491.64 | 36.53 | 455.11 | 0.00 | 0.00 | - | <50 / <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | - | - | - | - | - | - | - | - |
| MW-9 | 12/10/2012 ¹⁰ | 491.64 | 32.80 | 458.84 | 0.00 | 0.00 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-9 | 03/04/2013 ⁴ | 491.64 | 29.67 | 461.97 | 0.00 | 0.00 | - | <50 / <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | - | 135,000 | <54 | 520 | 342,000 | - | 15 | 176,000 |
| MW-9 | 06/03/2013 ⁴ | 491.64 | 31.30 | 460.34 | 0.00 | 0.00 | - | <50 / <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | - | 127,000 | <54 | 100 | 306,000 | - | 7.9 | 128,000 |
| MW-9 | 09/09/2013 ⁴ | 491.64 | 35.55 | 456.09 | 0.00 | 0.00 | - | <50 / <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | - | 133,000 | <54 | 84 | 321,000 | - | <3.0 | 74,300 |
| MW-9 | 12/09/2013 ⁴ | 491.64 | 34.81 | 456.83 | 0.00 | 0.00 | - | <50 / <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | - | 118,000 | <54 | <10 | 299,000 | - | <3.0 | 61,800 |
| MW-9 | 03/27/2014 ⁴ | 491.64 | 32.99 | 458.65 | 0.00 | 0.00 | - | <50 / <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | - | 110,000 | <54 | 82 | 303,000 | - | 9.2 | 132,000 |
| MW-9 | 06/19/2014⁵ | 491.64 | 38.81 | 452.83 | 0.00 | 0.00 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-10 | 03/09/2012 ¹ | 491.15 | 28.00 | 463.15 | 0.00 | 0.00 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-10 | 03/12/2012 ⁴ | 491.15 | 28.11 | 463.04 | 0.00 | 0.00 | - | 440/260 | 3,100 | <1 | <1 | 36 | 16 | - | - | - | - | - | - | - | - |
| MW-10 | 06/04/2012 ⁴ | 491.15 | 29.49 | 461.66 | 0.00 | 0.00 | - | 750/640 | 3,300 | 0.7 | 1 | 36 | 12 | - | - | - | - | - | - | - | - |
| MW-10 | 09/10/2012 ⁵ | 491.15 | 32.10 | 459.05 | 0.00 | 0.00 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-10 | 12/10/2012 ⁴ | 491.15 | 26.03 | 465.12 | 0.00 | 0.00 | - | 240 / 200 | 950 | <0.5 | <0.5 | 2 | 2 | - | - | - | - | - | - | - | - |
| MW-10 | 03/04/2013 ⁴ | 491.15 | 27.55 | 463.60 | 0.00 | 0.00 | - | 8,300 / 6,100 | 1,900 | <0.5 | <0.5 | 9 | 4 | - | 5,800 | 110 | 3,600 | 273,000 | - | 2,100 | 27,400 |
| MW-10 | 06/03/2013 ⁴ | 491.15 | 28.79 | 462.36 | 0.00 | 0.00 | - | 4,700 / 5,300 | 4,200 | 0.9 | 1 | 32 | 15 | - | <1,500 | <54 | 9,400 | 252,000 | - | 5,200 | 36,700 |

TABLE 1

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

| Location | Date | TOC | DTW | GWE | LNAPL | LNAPL REMOVED | TPH-DRO | TPH-DRO ug/Si Gel | TPH-GRO | B | T | E | X | Nitrate Nitrogen | Sulfate | Total sulfide (dissolved) | Ferrous Iron | Alkalinity, total (as CaCO3) | Alkalinity, phenolphthalein | Methane | Calcium | |
|--------------|-------------------------------|---------------|--------------|---------------|-------------|---------------|---------|-------------------|--------------|-----------|----------|-----------|-----------|------------------|---------|---------------------------|--------------|------------------------------|-----------------------------|---------|---------|---|
| | Units | ft | ft | ft-amsl | ft | gal | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | |
| MW-10 | 09/09/2013 ⁵ | 491.15 | 31.88 | 459.27 | 0.00 | 0.00 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-10 | 12/09/2013 ⁴ | 491.15 | 28.18 | 462.97 | 0.00 | 0.00 | - | 5,100 / 3,400 | 6,500 | 0.8 | 2 | 49 | 17 | - | 6,000 | 180 | 2,900 | 255,000 | - | 2,500 | 24,800 | |
| MW-10 | 03/27/2014 ⁴ | 491.15 | 26.85 | 464.30 | 0.00 | 0.00 | - | 2,500 / 2,400 | 3,200 | <0.5 | <0.5 | 12 | 3 | - | 8,300 | 120 | 2,200 | 216,000 | - | 3,000 | 23,600 | |
| MW-10 | 06/19/2014⁵ | 491.15 | 31.89 | 459.26 | 0.00 | 0.00 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-11 | 03/09/2012 ¹ | 490.59 | 31.48 | 459.11 | 0.00 | 0.00 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-11 | 03/12/2012 ⁴ | 490.59 | 33.35 | 457.24 | 0.00 | 0.00 | - | 160 / <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | - | - | - | - | - | - | - | - | - |
| MW-11 | 06/04/2012 ⁵ | 490.59 | 34.22 | 456.37 | 0.00 | 0.00 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-11 | 09/10/2012 ⁵ | 490.59 | 34.48 | 456.11 | 0.00 | 0.00 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-11 | 12/10/2012 ⁴ | 490.59 | 32.50 | 458.09 | 0.00 | 0.00 | - | 55 / <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | - | - | - | - | - | - | - | - | - |
| MW-11 | 03/04/2013 ⁴ | 490.59 | 28.11 | 462.48 | 0.00 | 0.00 | - | <50 / <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | - | 59,600 | <54 | 800 | 259,000 | - | 6.9 | 38,500 | |
| MW-11 | 06/03/2013 ⁴ | 490.59 | 31.53 | 459.06 | 0.00 | 0.00 | - | 690 / 200 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | - | 54,400 | <54 | 670 | - | - | 490 | - | |
| MW-11 | 09/09/2013 ⁵ | 490.59 | 34.13 | 456.46 | 0.00 | 0.00 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-11 | 12/09/2013 ⁴ | 490.59 | 31.38 | 459.21 | 0.00 | 0.00 | - | 220 / <50 | 100 | <0.5 | <0.5 | <0.5 | <0.5 | - | 72,100 | <54 | 230 | 284,000 | - | 210 | 43,900 | |
| MW-11 | 03/27/2014 ⁴ | 490.59 | 31.05 | 459.54 | 0.00 | 0.00 | - | 230 / 77 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | - | 47,600 | <54 | 280 | 262,000 | - | 34 | 36,200 | |
| MW-11 | 06/19/2014⁵ | 490.59 | 34.23 | 456.36 | 0.00 | 0.00 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-12 | 03/09/2012 ¹ | 493.72 | 25.43 | 468.29 | 0.00 | 0.00 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-12 | 03/12/2012 ⁴ | 493.72 | 26.97 | 466.75 | 0.00 | 0.00 | - | 1,100/310 | 3,000 | 10 | 1 | 19 | 38 | - | - | - | - | - | - | - | - | - |
| MW-12 | 06/04/2012 ⁴ | 493.72 | 26.54 | 467.18 | 0.00 | 0.00 | - | 990/510 | 4,200 | 15 | 2 | 12 | 23 | - | - | - | - | - | - | - | - | - |
| MW-12 | 09/10/2012 ⁴ | 493.72 | 28.80 | 464.92 | 0.00 | 0.00 | - | 1,000 / 290 | 2,500 | 30 | 2 | 2 | 2 | - | - | - | - | - | - | - | - | - |
| MW-12 | 12/10/2012 ⁴ | 493.72 | 25.36 | 468.36 | 0.00 | 0.00 | - | 840 / 330 | 2,500 | 10 | <3 | <3 | <3 | - | - | - | - | - | - | - | - | - |
| MW-12 | 03/04/2013 ⁴ | 493.72 | 25.61 | 468.11 | 0.00 | 0.00 | - | 1,800 / 590 | 3,200 | 26 | 2 | 20 | 16 | - | 19,400 | <54 | 4,700 | 559,000 | - | 1,100 | 80,300 | |
| MW-12 | 06/03/2013 ⁴ | 493.72 | 29.50 | 464.22 | 0.00 | 0.00 | - | 450 / 260 | 3,000 | 12 | 0.8 | 9 | 6 | - | 14,700 | <54 | 3,300 | 534,000 | - | 460 | 73,800 | |
| MW-12 | 09/09/2013 ⁴ | 493.72 | 27.32 | 466.40 | 0.00 | 0.00 | - | 720 / 280 | 3,300 | 33 | 2 | 19 | 14 | - | 9,500 | <54 | 4,500 | 559,000 | - | 960 | 69,200 | |
| MW-12 | 12/09/2013 ⁴ | 493.72 | 24.68 | 469.04 | 0.00 | 0.00 | - | 670 / 260 | 2,500 | 19 | 3 | 2 | 1 | - | 14,900 | <54 | 880 | 577,000 | - | 890 | 70,800 | |
| MW-12 | 03/27/2014 ⁴ | 493.72 | 24.82 | 468.90 | 0.00 | 0.00 | - | 1,000 / 230 | 2,100 | 5 | 2 | 1 | 2 | - | 3,100 | <54 | 4,300 | 580,000 | - | 780 | 71,800 | |
| MW-12 | 06/19/2014⁴ | 493.72 | 28.09 | 465.63 | 0.00 | 0.00 | - | 1,000/260 | 3,000 | 23 | 2 | 18 | 13 | - | - | - | - | - | - | - | - | - |
| QA | 05/27/2010 | - | - | - | - | - | - | - | <50 | <0.5 | <0.5 | <0.5 | <0.5 | - | - | - | - | - | - | - | - | - |

TABLE 1

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

| Location | Date | TOC | DTW | GWE | LNAPL | LNAPL REMOVED | TPH-DRO | TPH-DRO w/ Si Gel | TPH-GRO | B | T | E | X | Nitrate Nitrogen | Sulfate | Total sulfide (dissolved) | Ferrous Iron | Alkalinity, total (as CaCO3) | Alkalinity, phenolphthalein | Methane | Calcium |
|----------|------------|-----|-----|---------|-------|---------------|---------|-------------------|---------|------|------|------|------|------------------|---------|---------------------------|--------------|------------------------------|-----------------------------|---------|---------|
| | Units | ft | ft | ft-amsl | ft | gal | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L |
| QA | 09/13/2010 | - | - | - | - | - | - | - | <50 | <0.5 | <0.5 | <0.5 | <0.5 | - | - | - | - | - | - | - | - |
| QA | 12/20/2010 | - | - | - | - | - | - | - | <50 | <0.5 | <0.5 | <0.5 | <0.5 | - | - | - | - | - | - | - | - |
| QA | 03/07/2011 | - | - | - | - | - | - | - | <50 | <0.5 | <0.5 | <0.5 | <0.5 | - | - | - | - | - | - | - | - |
| QA | 06/06/2011 | - | - | - | - | - | - | - | <50 | <0.5 | <0.5 | <0.5 | <0.5 | - | - | - | - | - | - | - | - |
| QA | 06/22/2011 | - | - | - | - | - | - | - | <50 | <0.5 | <0.5 | <0.5 | <0.5 | - | - | - | - | - | - | - | - |
| QA | 09/19/2011 | - | - | - | - | - | - | - | <50 | <0.5 | <0.5 | <0.5 | <0.5 | - | - | - | - | - | - | - | - |
| QA | 03/12/2012 | - | - | - | - | - | - | - | <50 | <0.5 | <0.5 | <0.5 | <0.5 | - | - | - | - | - | - | - | - |
| QA | 06/03/2013 | - | - | - | - | - | - | - | <50 | <0.5 | <0.5 | <0.5 | <0.5 | - | - | - | - | - | - | - | - |
| QA | 09/09/2013 | - | - | - | - | - | - | - | <50 | <0.5 | <0.5 | <0.5 | <0.5 | - | - | - | - | - | - | - | - |
| QA | 12/09/2013 | - | - | - | - | - | - | - | <50 | <0.5 | <0.5 | <0.5 | <0.5 | - | - | - | - | - | - | - | - |
| QA | 03/27/2014 | - | - | - | - | - | - | - | <50 | <0.5 | <0.5 | <0.5 | <0.5 | - | - | - | - | - | - | - | - |
| QA | 06/19/2014 | - | - | - | - | - | - | - | <50 | <0.5 | <0.5 | <0.5 | <0.5 | - | - | - | - | - | - | - | - |

Abbreviations and Notes:

TOC = Top of casing

DTW = Depth to water

GWE = Groundwater elevation

(ft-amsl) = Feet above mean sea level

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

ft = Feet

µg/L = Micrograms per liter

TPH-DRO = Total petroleum hydrocarbons - diesel range organics

TPH-GRO = Total petroleum hydrocarbons - gasoline range organics

VOCS = Volatile organic compounds

B = Benzene

T = Toluene

E = Ethylbenzene

X = Xylenes (Total)

-- = Not available / not applicable

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

TABLE 1

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

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

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

ATTACHMENT A

MONITORING DATA PACKAGE



GETTLER-RYAN INC.



TRANSMITTAL

June 27, 2014
G-R #385876

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

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

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

WE HAVE ENCLOSED THE FOLLOWING:

| COPIES | DESCRIPTION |
|---------|---|
| VIA PDF | Groundwater Monitoring and Sampling Data Package Second Quarter Event of June 19, 2014 |

COMMENTS:

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

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

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

trans/9-0271

WELL CONDITION STATUS SHEET

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

Job #: **385876**
Event Date: **6/19/14**
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-7 | OK | | | | | | | N | N | 8" emco | N |
| MW-9 | OK | | | | | | | N | N | 8" MORRISON | N |
| MW-10 | OK | | | | | | | N | N | | N |
| MW-12 | OK | | | | | | | N | N | | N |
| MW-11 | OK | | | | | | | N | N | | N |
| MW-8 | OK | | | | | | | N | N | 12" emco | N |
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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 #307233
 Site Address: 2259 First Street
 City: Livermore, CA

Job Number: 385876
 Event Date: 6/19/14 (inclusive)
 Sampler: JH

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

Date Monitored: 6/19/14

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

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

LABORATORY INFORMATION

| SAMPLE ID | (#) CONTAINER | REFRIG. | PRESERV. TYPE | LABORATORY | ANALYSES |
|-----------|----------------|---------|---------------|------------|--|
| MW- | x voa vial | YES | HCL | LANCASTER | TPH-GRO(8015)/BTEX(8260) |
| | x 500ml ambers | YES | NP | LANCASTER | TPH-DRO w/sgc COLUMN/TPH-DRO w/sgc(8015) |
| | | | | | |
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COMMENTS: INSUFFICIENT H2O SKIMMER IN WELL

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



GETTLER - RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

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

Job Number: 385876
 Event Date: 6/19/14 (inclusive)
 Sampler: JH

Well ID: MW-8
 Well Diameter: 2 in.
 Total Depth: 38.62 ft.
 Depth to Water: 38.52 ft.

Date Monitored: 6/19/14

| | | | | |
|--------------------|------------|----------|----------|-----------|
| 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.

Depth to Water .10 xVF — = — x3 case volume = Estimated Purge Volume: — gal.

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

Purge Equipment:

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

Sampling Equipment:

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

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

Start Time (purge): _____

Weather Conditions: _____

Sample Time/Date: / /

Water Color: _____ Odor: Y / N

Approx. Flow Rate: _____ gpm.

Sediment Description: _____

Did well de-water? _____ If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: _____

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

| SAMPLE ID | (#) CONTAINER | REFRIG. | PRESERV. TYPE | LABORATORY | ANALYSES |
|-----------|----------------|---------|---------------|------------|--|
| MW- | x voa vial | YES | HCL | LANCASTER | TPH-GRO(8015)/BTEX(8260) |
| | x 500ml ambers | YES | NP | LANCASTER | TPH-DRO w/sgc COLUMN/TPH-DRO w/sgc(8015) |
| | | | | | |
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COMMENTS: INSUFFICIENT H2O

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



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

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

Job Number: 385876
 Event Date: 6/19/14 (inclusive)
 Sampler: 3H

Well ID: MW-9
 Well Diameter: 2 in.
 Total Depth: 39.54 ft.
 Depth to Water: 38.81 ft.

Date Monitored: 6/19/14

| | | | | |
|--------------------|------------|----------|----------|-----------|
| 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.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]:
 $.73 \times VF = \text{ }$ x3 case volume = Estimated Purge Volume: gal.

Purge Equipment:

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

Sampling Equipment:

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

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

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

| Time (2400 hr.) | Volume (gal.) | pH | Conductivity ($\mu\text{S}/\text{mS}$ / $\mu\text{mhos}/\text{cm}$) | Temperature (C / F) | D.O. (mg/L) | ORP (mV) |
|-----------------|---------------|-------|---|---------------------|-------------|----------|
| _____ | _____ | _____ | _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ | _____ | _____ | _____ |

LABORATORY INFORMATION

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

COMMENTS: INSUFFICIENT H2O

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



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

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

Job Number: 385876
 Event Date: 6/19/14 (inclusive)
 Sampler: 34

Well ID: MW-10
 Well Diameter: 2 in.
 Total Depth: 32.09 ft.
 Depth to Water: 31.89 ft.

Date Monitored: 6/19/14

| | | | | |
|--------------------|------------|----------|----------|-----------|
| 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.

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

Purge Equipment:

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

Sampling Equipment:

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

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

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

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

LABORATORY INFORMATION

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

COMMENTS: Insufficient H₂O

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



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

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

Job Number: 385876
 Event Date: 6/19/14 (inclusive)
 Sampler: 34

Well ID: MW-11
 Well Diameter: 2 in.
 Total Depth: 34.71 ft.
 Depth to Water: 34.23 ft.
.48 xVF = _____ x3 case volume = Estimated Purge Volume: _____ gal.

Date Monitored: 6/19/14

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

Check if water column is less than 0.50 ft.

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

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

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

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

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

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

LABORATORY INFORMATION

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

COMMENTS: INSUFFICIENT H2O

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



GETTLER-RYAN Inc.

WELL MONITORING/SAMPLING FIELD DATA SHEET

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

Job Number: 385876
 Event Date: 6/19/14 (inclusive)
 Sampler: JH

Well ID: MW-12
 Well Diameter: 2 in.
 Total Depth: 34.46 ft.
 Depth to Water: 28.09 ft.
6.37 xVF = 1.08

Date Monitored: 6/19/14

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

Check if water column is less than 0.50 ft.

x3 case volume = Estimated Purge Volume: 3.24 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 29.36

Purge Equipment:

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

Sampling Equipment:

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

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

Start Time (purge): 0710 Weather Conditions: Clean
 Sample Time/Date: 0930 / 6/19/14 Water Color: cloudy Odor: 0 / N Light
 Approx. Flow Rate: _____ gpm. Sediment Description: Light
 Did well de-water? No If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: _____

| Time (2400 hr.) | Volume (gal.) | pH | Conductivity (µS/mhos/cm) | Temperature (°C / °F) | D.O. (mg/L) | ORP (mV) |
|-----------------|---------------|-------------|---------------------------|-----------------------|-------------|----------|
| <u>0715</u> | <u>1</u> | <u>7.49</u> | <u>601</u> | <u>17.7</u> | _____ | _____ |
| <u>0720</u> | <u>2</u> | <u>7.62</u> | <u>639</u> | <u>17.7</u> | _____ | _____ |
| <u>0728</u> | <u>3.25</u> | <u>7.77</u> | <u>725</u> | <u>17.8</u> | _____ | _____ |

LABORATORY INFORMATION

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

COMMENTS: Water Level Double checked - slow Recovery after Purging well Didnot Recover to 80% after 2hrs sample taken.

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

Chevron California Region Analysis Request/Chain of Custody



Lancaster Laboratories

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

| 1 Client Information | | | | 4 Matrix | | | | 5 Analyses Requested | | | | 6 Remarks | | | | | | | |
|--|-------|---------|------|--|-----------|-------------|-------|--|----------------------------|---------------|--------------|--|--------------------------------------|----------------|------------|------------|----------------|--------|--------|
| Facility # SS#307233-OML G-R#385876 Global ID#T0600196622 Site Address 2259 FIRST STREET, 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 Jim Heron | | | | <input type="checkbox"/> Sediment <input checked="" type="checkbox"/> Ground <input type="checkbox"/> Surface <input type="checkbox"/> Potable <input type="checkbox"/> NPDES <input type="checkbox"/> Air <input type="checkbox"/> Soil <input type="checkbox"/> Water <input type="checkbox"/> Oil | | | | Total Number of Containers BTEX + E 8021 <input checked="" type="checkbox"/> 8260 TPH-GRO 8015 <input checked="" type="checkbox"/> 8260 TPH-DRO 8015 <input checked="" type="checkbox"/> Silica Gel Cleanup TPH-DRO 8015 with Silica Gel Cleanup <input checked="" type="checkbox"/> 8260 Full Scan Oxygenates Total Lead Method Dissolved Lead Method | | | | SCR #: _____ <input type="checkbox"/> Results in Dry Weight <input type="checkbox"/> J value reporting needed <input type="checkbox"/> Must meet lowest detection limits possible for 8260 compounds <input type="checkbox"/> 8021 MTBE Confirmation <input type="checkbox"/> Confirm highest hit by 8260 <input type="checkbox"/> Confirm all hits by 8260 <input type="checkbox"/> Run _____ oxy's on highest hit <input type="checkbox"/> Run _____ oxy's on all hits | | | | | | | |
| 2 Sample Identification | | 3 Soil | | 3 Grab | | 3 Composite | | | | | | | | | | | | | |
| Sample ID | Depth | Date | Time | Grab | Composite | Soil | Water | Oil | Total Number of Containers | BTEX + E 8021 | TPH-GRO 8015 | TPH-DRO 8015 | TPH-DRO 8015 with Silica Gel Cleanup | 8260 Full Scan | Oxygenates | Total Lead | Dissolved Lead | Method | Method |
| GA | | 6/19/14 | | X | | | X | | 2 | X | X | X | X | | | | | | |
| MW-12 | | ↓ | 0930 | X | | | X | | 8 | X | Y | X | X | | | | | | |
| 7 Turnaround Time Requested (TAT) (please circle) Standard <input checked="" type="radio"/> 5 day 4 day 72 hour 48 hour 24 hour | | | | Relinquished by _____ Date 6/19/14 Time 0945 Relinquished by _____ Date _____ Time _____ | | | | Received by _____ Date _____ Time _____ Received by _____ Date _____ Time _____ | | | | 9 | | | | | | | |
| 8 Data Package (circle if required) Type I - Full Type VI (Raw Data) | | | | EDD (circle if required) EDFFLAT (default) Other: _____ | | | | Relinquished by Commercial Carrier: UPS _____ FedEx <input checked="" type="checkbox"/> Other _____ | | | | Received by _____ Date 6/20/14 Time 0930 Temperature Upon Receipt 0.9 °C Custody Seals Intact? <input checked="" type="radio"/> Yes <input type="radio"/> 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

June 27, 2014

Project: 307233

Submittal Date: 06/20/2014
Group Number: 1483450
PO Number: 0015141332
Release Number: CMACLEOD
State of Sample Origin: CA

Client Sample Description

QA-T-140619 NA Water
MW-12-W-140619 Grab Groundwater
MW-12-W-140619 Grab Groundwater

Lancaster Labs (LL) #

7506428
7506429
7506430

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-140619 NA Water
Facility# 307233 Job# 385876 GRD
2259 First St-Livermore T0600196622

LL Sample # WW 7506428
LL Group # 1483450
Account # 10904

Project Name: 307233

Collected: 06/19/2014

Chevron

Submitted: 06/20/2014 09:20

L4310

Reported: 06/27/2014 14:45

6001 Bollinger Canyon Rd.
San Ramon CA 94583

FSLQA

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

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

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 | F141753AA | 06/24/2014 18:07 | Brett W Kenyon | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | F141753AA | 06/24/2014 18:07 | Brett W Kenyon | 1 |
| 01728 | TPH-GRO N. CA water C6-C12 | SW-846 8015B | 1 | 14177B20A | 06/27/2014 00:07 | Miranda P Tillinghast | 1 |
| 01146 | GC VOA Water Prep | SW-846 5030B | 1 | 14177B20A | 06/27/2014 00:07 | Miranda P Tillinghast | 1 |

Sample Description: MW-12-W-140619 Grab Groundwater
Facility# 307233 Job# 385876 GRD
2259 First St-Livermore T0600196622

LL Sample # WW 7506429
LL Group # 1483450
Account # 10904

Project Name: 307233

Collected: 06/19/2014 09:30 by JH Chevron
L4310
Submitted: 06/20/2014 09:20 6001 Bollinger Canyon Rd.
Reported: 06/27/2014 14:45 San Ramon CA 94583

FL12C

| 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 | 23 | 0.5 | 1 |
| 10943 | Ethylbenzene | 100-41-4 | 18 | 0.5 | 1 |
| 10943 | Toluene | 108-88-3 | 2 | 0.5 | 1 |
| 10943 | Xylene (Total) | 1330-20-7 | 13 | 0.5 | 1 |
| GC Volatiles SW-846 8015B ug/l ug/l | | | | | |
| 01728 | TPH-GRO N. CA water C6-C12 | n.a. | 3,000 | 50 | 1 |
| GC Petroleum SW-846 8015B ug/l ug/l | | | | | |
| Hydrocarbons w/Si | | | | | |
| 06610 | TPH-DRO CA C10-C28 w/ Si Gel | n.a. | 260 | 50 | 1 |
| The reverse surrogate, capric acid, is present at <1%. | | | | | |

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

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 | F141753AA | 06/24/2014 18:29 | Brett W Kenyon | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | F141753AA | 06/24/2014 18:29 | Brett W Kenyon | 1 |
| 01728 | TPH-GRO N. CA water C6-C12 | SW-846 8015B | 1 | 14177B20A | 06/27/2014 02:28 | Miranda P Tillinghast | 1 |
| 01146 | GC VOA Water Prep | SW-846 5030B | 1 | 14177B20A | 06/27/2014 02:28 | Miranda P Tillinghast | 1 |
| 06610 | TPH-DRO CA C10-C28 w/ Si Gel | SW-846 8015B | 1 | 141750023A | 06/26/2014 18:07 | Christine E Dolman | 1 |
| 11180 | Low Vol Ext (W) w/SG | SW-846 3510C | 1 | 141750023A | 06/25/2014 07:30 | Kerrie A Freeburn | 1 |

Sample Description: MW-12-W-140619 Grab Groundwater
 Facility# 307233 Job# 385876 GRD
 2259 First St-Livermore T0600196622

LL Sample # WW 7506430
 LL Group # 1483450
 Account # 10904

Project Name: 307233

Collected: 06/19/2014 09:30 by JH Chevron
 Submitted: 06/20/2014 09:20 L4310
 Reported: 06/27/2014 14:45 6001 Bollinger Canyon Rd.
 San Ramon CA 94583

FL12Q

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Dilution Factor |
|---------|---------------------------------------|---------------------|--------------------|------------------------------------|-----------------|
| | GC Petroleum Hydrocarbons w/Si | SW-846 8015B | ug/l | ug/l | |
| 06610 | TPH-DRO CA C10-C28 w/ Si Gel | n.a. | 1,000 | 50 | 1 |

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA
 All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---------|------------------------------|--------------|--------|------------|------------------------|--------------------|-----------------|
| 06610 | TPH-DRO CA C10-C28 w/ Si Gel | SW-846 8015B | 1 | 141750024A | 06/25/2014 14:51 | Christine E Dolman | 1 |
| 11180 | Low Vol Ext (W) w/SG | SW-846 3510C | 1 | 141750024A | 06/25/2014 07:30 | Kerrie A Freeburn | 1 |

Quality Control Summary

Client Name: Chevron
Reported: 06/27/14 at 02:45 PM

Group Number: 1483450

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

| <u>Analysis Name</u> | <u>Blank Result</u> | <u>Blank MDL</u> | <u>Report Units</u> | <u>LCS %REC</u> | <u>LCSD %REC</u> | <u>LCS/LCSD Limits</u> | <u>RPD</u> | <u>RPD Max</u> |
|------------------------------|-----------------------------------|------------------|---------------------|-----------------|------------------|------------------------|------------|----------------|
| Batch number: F141753AA | Sample number(s): 7506428-7506429 | | | | | | | |
| Benzene | N.D. | 0.5 | ug/l | 94 | 95 | 78-120 | 1 | 30 |
| Ethylbenzene | N.D. | 0.5 | ug/l | 91 | 92 | 79-120 | 1 | 30 |
| Toluene | N.D. | 0.5 | ug/l | 91 | 92 | 80-120 | 1 | 30 |
| Xylene (Total) | N.D. | 0.5 | ug/l | 88 | 90 | 80-120 | 2 | 30 |
| Batch number: 14177B20A | Sample number(s): 7506428-7506429 | | | | | | | |
| TPH-GRO N. CA water C6-C12 | N.D. | 50. | ug/l | 126 | 125 | 80-139 | 1 | 30 |
| Batch number: 141750023A | Sample number(s): 7506429 | | | | | | | |
| TPH-DRO CA C10-C28 w/ Si Gel | N.D. | 50. | ug/l | 66 | 61 | 43-120 | 8 | 20 |
| Batch number: 141750024A | Sample number(s): 7506430 | | | | | | | |
| TPH-DRO CA C10-C28 w/ Si Gel | N.D. | 50. | ug/l | 89 | 93 | 43-120 | 4 | 20 |

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: F141753AA

| | Dibromofluoromethane | 1,2-Dichloroethane-d4 | Toluene-d8 | 4-Bromofluorobenzene |
|---------|----------------------|-----------------------|------------|----------------------|
| 7506428 | 96 | 100 | 103 | 97 |
| 7506429 | 96 | 96 | 103 | 107 |
| Blank | 94 | 94 | 103 | 97 |
| LCS | 95 | 98 | 101 | 98 |
| LCSD | 97 | 98 | 100 | 97 |
| Limits: | 80-116 | 77-113 | 80-113 | 78-113 |

Analysis Name: TPH-GRO N. CA water C6-C12
Batch number: 14177B20A
Trifluorotoluene-F

| | |
|---------|-----|
| 7506428 | 90 |
| 7506429 | 131 |

*- 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: 06/27/14 at 02:45 PM

Group Number: 1483450

Surrogate Quality Control

Blank 91
LCS 95
LCSD 96

Limits: 63-135

Analysis Name: TPH-DRO CA C10-C28 w/ Si Gel
Batch number: 141750023A
Orthoterphenyl

7506429 80
Blank 71
LCS 79
LCSD 75

Limits: 46-131

Analysis Name: TPH-DRO CA C10-C28 w/ Si Gel
Batch number: 141750024A
Orthoterphenyl

7506430 102
Blank 88
LCS 94
LCSD 99

Limits: 46-131

*- 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 # 1483450 Sample # 1506428-30
Instructions on reverse side correspond with circled numbers.

| 1 Client Information | | | | 4 Matrix | | | | 5 Analyses Requested | | | | | | | | | | 6 Remarks | | | | | | | | | | | | | | | | | | | |
|--|--|------------|--|--|--|--------|--|--|--|------|--|---|--|-----|--|---|--|--|--|---------|--|--------------|--|--------------------------------------|--|----------------|--|------------|--|------------|--|----------------|--|--------|--|--------|--|
| Facility # <u>SS#307233-OML G-R#385876 Global ID#T0600196622</u> Site Address <u>2259 FIRST STREET, LIVERMORE, CA</u> Chevron PM <u>CM</u> CRASB Lead Consultant <u>Silva</u> Consultant/Office <u>Getter-Ryan, Inc., 6805 Sierra Court, Suite G, Dublin, CA 94008</u> Consultant Project Mgr. <u>Deanna L. Harding, deanna@grinc.com</u> Consultant Phone # <u>(925) 551-7444 x180</u> Sampler <u>Jim Heron</u> | | | | <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 <input type="checkbox"/> Total Number of Containers | | | | <input checked="" type="checkbox"/> 8260 <input type="checkbox"/> 8260 <input checked="" type="checkbox"/> Silica Gel Cleanup <input checked="" type="checkbox"/> Silica Gel Cleanup <input type="checkbox"/> 8260 Full Scan Oxygenates Total Lead Dissolved Lead Method Method | | | | | | | | | | SCR #: _____ <input type="checkbox"/> Results in Dry Weight <input type="checkbox"/> J value reporting needed <input type="checkbox"/> Must meet lowest detection limits possible for 8260 compounds <input type="checkbox"/> 8021 MTBE Confirmation <input type="checkbox"/> Confirm highest hit by 8260 <input type="checkbox"/> Confirm all hits by 8260 <input type="checkbox"/> Run _____ oxy's on highest hit <input type="checkbox"/> Run _____ oxy's on all hits | | | | | | | | | | | | | | | | | | | |
| 2 Sample Identification | | Soil Depth | | 3 Collected | | 3 Grab | | 3 Composite | | Soil | | Water | | Oil | | Total Number of Containers | | BTEX + MME | | TPH-GRO | | TPH-DRO 8015 | | TPH-DRO 8015 with Silica Gel Cleanup | | 8260 Full Scan | | Oxygenates | | Total Lead | | Dissolved Lead | | Method | | Method | |
| QA | | | | 6/15/14 | | X | | X | | X | | X | | X | | X | | X | | X | | X | | X | | X | | X | | X | | X | | X | | X | |
| MW-12 | | | | ↓ 0930 | | X | | X | | X | | X | | X | | X | | X | | X | | X | | X | | X | | X | | X | | X | | X | | X | |
| 7 Turnaround Time Requested (TAT) (please circle) <input checked="" type="radio"/> Standard 5 day 72 hour 48 hour 24 hour | | | | Relinquished by <u>[Signature]</u> Date <u>6/19/14</u> Time <u>0945</u> | | | | Received by _____ Date _____ Time _____ | | | | Relinquished by _____ Date _____ Time _____ | | | | Received by _____ Date _____ Time _____ | | | | | | | | | | | | | | | | | | | | | |
| 8 Data Package (circle if required) Type I - Full Type VI (Raw Data) | | | | EDD (circle if required) EDFFLAT (default) Other: _____ | | | | Relinquished by Commercial Carrier: UPS _____ FedEx <input checked="" type="checkbox"/> Other _____ | | | | Received by <u>[Signature]</u> Date <u>6/20/14</u> Time <u>0920</u> | | | | Temperature Upon Receipt <u>0.7</u> °C Custody Seals Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | | | | | | | | | | | | | | | | | | | | | |

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.

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