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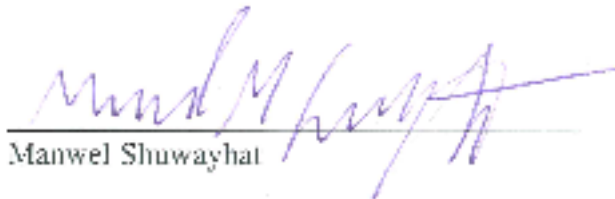
Allterra Environmental, Inc.
849 Almar Avenue, Suite C
No. 281
Santa Cruz, California 95060

Client: Manwel Shuwayhat
Project Location: 160 Holmes Street, Livermore, California
Subject: Third Quarter 2013 Groundwater Monitoring Report
Report Date: October 29, 2013

To Whom It May Concern:

I have reviewed the report referenced above and approve its distribution to the necessary regulatory agencies. Should any of the regulatory agencies require it, "I declare, under penalty of perjury, that the information and/or recommendations contained in the attached proposal or report is true and correct to the best of my knowledge."

Sincerely,


Manwel Shuwayhat



**Third Quarter 2013 Groundwater Monitoring Report
Fuel Leak Case No. RO0000324, Livermore Gas and Mini Mart
160 Holmes Street, Livermore, California**

Date:
October 29, 2013

Project No.:
160

Prepared For:
Livermore Gas and Mini mart
Attention: Manwel and Samira Shuwayhat
54 Wolfe Canyon Road
Kentfield, California 94904

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October 29, 2013
Project No.: 160

Manwel and Samira Shuwayhat
Livermore Gas and Mini Mart
54 Wolfe Canyon Road
Kentfield, California 94904

SUBJECT: Third Quarter 2013 Groundwater Monitoring Report for Fuel Leak Case No. RO0000324, Livermore Gas and Mini Mart, 160 Holmes Street, Livermore, California

Dear Mr. and Mrs. Shuwayhat:

On your behalf, Allterra Environmental, Inc. (Allterra) has prepared this Third Quarter 2013 Groundwater Monitoring Report for the property located at 160 Holmes Street in Livermore, California (Site). This report describes the field and analytical methods, provides a summary of groundwater monitoring results, and presents conclusions and recommendations regarding groundwater conditions at the Site. Monitoring activities were completed in accordance with Alameda County Environmental Health Services (ACEHS) and Regional Water Quality Control Board (RWQCB) guidelines, and Allterra's protocols presented in Appendix A.

Site Location and Description

The Site is located on the southwest corner of Holmes Street and 2nd Street at 160 Holmes Street in Livermore, California (Figure 1). The Site currently operates as a service station and convenience store. The Site is paved with concrete and asphalt, and a canopy covers the fuel dispensers. Pertinent site features, such as monitoring well locations, are presented on Figure 2.

Groundwater Monitoring for Third Quarter 2013

Field Activities

On August 24, 26 and 28, 2013, Allterra conducted groundwater monitoring at 12 on- and off-site monitoring wells (MW-1A and MW-5A through MW-9B) and three on-site extraction/injection wells (EW-1, EW-3, and EW-3B). Samples were not collected from wells MW-2A, MW-3A, MW-4A, and EW-2 during this monitoring event since these wells are only sampled annually (first quarter). Groundwater monitoring activities included the measurement of static groundwater levels, an evaluation of groundwater in the wells for the presence of petroleum hydrocarbons, field parameter testing, and groundwater quality sampling. Prior to sampling, all groundwater wells were purged using disposable bailers until temperature, color, specific conductance, and turbidity readings had stabilized or until at least three casing volumes had been removed. Groundwater sampling field logs are included in Appendix B.

Laboratory Analysis

Groundwater samples collected from the monitoring and extraction wells were submitted under chain-of-custody documentation to McCampbell Analytical, Inc., of Pittsburg, California, a State of California certified laboratory (ELAP #1644). All samples were analyzed for total petroleum

hydrocarbons as gasoline (TPHg) by EPA method 8015B, and for benzene, toluene, ethylbenzene, xylenes (BTEX), and methyl tert-butyl ether (MTBE) by EPA Method 8021B. Additionally, select wells were tested for total petroleum hydrocarbons as diesel (TPHd) by EPA method 8015B; fuel oxygenates tert-amyl methyl ether (TAME), tert-butyl alcohol (TBA), diisopropyl ether (DIPE), ethyl tert-butyl ether (ETBE), and MTBE by EPA Method 8260B; lead scavengers 1,2-dibromoethane (EDB) and 1,2-dichloroethane (1,2-DCA) by EPA Method 8260B, and hexachrome by EPA method E218.6. Copies of the chain-of-custody documentation and the certified analytical report, including quality assurance and quality control (QA/QC) data, are included in Appendix C.

Groundwater Gradient and Flow Direction

On August 24, 2013, Allterra personnel measured and recorded depths to groundwater from the tops of well casings (TOC) for each well. Recorded depths to groundwater ranged from 24.96 to 26.86 feet below TOC. The surveyed elevations of each well casing (measured in feet relative to mean sea level), depths to groundwater, and calculated groundwater elevations are presented in Table 1 and depicted on Figure 3 as groundwater elevation contours. For the August 2013 monitoring event, the general groundwater flow direction was to the north-northwest at a gradient of approximately 0.0073 feet per foot (ft/ft).

Analytical Results

Petroleum constituents were detected in seven of the fifteen wells sampled during this event. A summary of current and historical groundwater analytical results is presented in Table 2. Additionally, current concentrations of dissolved TPHg, TPHd, benzene, MTBE, and TBA in groundwater are shown on Figures 4 through 7. Time trend plots for contaminant concentrations in wells MW-1A, EW-1, and EW-3 are shown on Figures 8 through 15. A discussion of current groundwater analytical results is presented below:

- TPHg was detected in three wells at concentrations ranging from 84 micrograms per liter ($\mu\text{g/L}$) in EW-3B to 510 $\mu\text{g/L}$ in EW-3.
- TPHd was detected in five wells at concentrations ranging from 72 $\mu\text{g/L}$ in EW-1 to 370 $\mu\text{g/L}$ in EW-3.
- Benzene was detected in two wells at concentrations of 0.87 $\mu\text{g/L}$ in EW-3B and 2.0 $\mu\text{g/L}$ in EW-3.
- Toluene was detected in three wells at concentrations ranging from 0.69 $\mu\text{g/L}$ in EW-3B to 5.5 in MW-7A.
- Ethylbenzene was detected in three wells at concentrations ranging from 0.66 $\mu\text{g/L}$ in EW-3B to 3.8 $\mu\text{g/L}$ in MW-7A.
- Xylenes were detected in two wells at concentrations of 1.8 $\mu\text{g/L}$ in EW-3B and 15 $\mu\text{g/L}$ in EW-3.

- MTBE was detected in four wells at concentrations ranging from 1.1 µg/L in MW-7A to 4,300 µg/L in EW-3.
- TBA was detected in six wells at concentrations ranging from 32 µg/L in MW-7A to 19,000 µg/L in MW-1A.
- Hexachrome was detected in four wells at concentrations ranging from 1.6 µg/L in EW-1 to 19 µg/L in EW-3B.
- Lead scavengers were not detected above laboratory reporting limits in any wells sampled this quarter.

Discussion

Following in-situ chemical oxidation (ISCO) activities performed during second quarter 2013, it appears that petroleum constituents in the vicinity of EW-3 (within former source area) have been significantly reduced. During the first quarter 2013 monitoring event, MTBE and TBA were detected in EW-3 at concentrations of 6,300 µg/L and 130,000 µg/L, respectively. Current analytical results following remedial activities indicate MTBE and TBA in EW-3 at concentrations of 4,300 µg/L and 1,600 µg/L, respectively. MTBE and TBA concentrations in EW-3 have increased slightly since the June and July sampling events indicating that some contaminate rebound has occurred, however current concentrations are still well below baseline results. Additionally, hexachrome results following ISCO activities do not indicate any significant increases or adverse affects.

Conclusions

Based on the current groundwater monitoring data, Allterra concludes the following:

- The overall groundwater flow direction is to the north-northwest with an estimated gradient of 0.0073 ft/ft, which is consistent with previous monitoring events.
- For the August 2013 monitoring event, petroleum constituents were detected at or above laboratory detection limits in seven of the fifteen wells sampled. The highest concentrations of petroleum constituents remaining in shallow groundwater are limited to the area around wells EW-1, EW-3, and EW-3B.
- The highest concentration of TPHg and MTBE was detected in EW-3 at concentrations of 510 and 4,300 µg/L, respectively.
- The highest concentration of TBA was detected in well MW-1A (19,000 µg/L). Recent increases in TBA concentrations are likely due to degradation of MTBE caused by ISCO activities and natural processes.

- Since April 2011, petroleum constituents in groundwater have generally exhibited decreasing trends throughout the in-situ treatment zone. Substantial contaminant reduction has occurred in key wells MW-1A, EW-1, EW-3, and EW-3B located within the former source area.
- Based on third quarter 2013 analytical results, MW-1A demonstrates a 99.97%, 99.91%, 99.99%, and 99.99% reduction in TPHg, TPHd, benzene, and MTBE concentrations, respectively. EW-1 demonstrates a 99.86%, 67.27%, 99.89%, and 99.86% reduction in TPHg, TPHd, benzene, and MTBE concentrations, respectively. EW-3 demonstrates a 99.64%, 92.88%, 99.17%, and 98.98% reduction in TPHg, TPHd, benzene, and MTBE concentrations, respectively.
- Decreasing trends in petroleum constituents in shallow groundwater indicate that in-situ remedial efforts have been effective in treating soil and groundwater beneath the former source area at the Site.

Recommendations

Based on the conclusions presented above, Allterra recommends the following:

- Continue with the current quarterly groundwater monitoring at the Site for the purpose of closely monitoring potential contaminant rebound under varying seasonal conditions.
- To reduce project costs, up-gradient wells MW-2A, MW-3A, and EW-2 and cross-gradient well MW-4A will continue to be sampled for TPHg, BTEX, and MTBE on an annual basis (first quarter of each year).
- All other wells will continue to be sampled and analyzed for TPHg, BTEX, and MTBE on a quarterly basis. Only select wells will be analyzed for TPHd, 5-fuel oxygenates, and lead scavengers on a quarterly basis.
- Following four quarters of post-remedial verification monitoring, evaluate the Site for potential low-threat case closure.

Limitations

Allterra prepared this report for the use of Livermore Gas and Mini Mart, ACEHS and RWQCB in evaluating groundwater quality at selected locations at the time of this study. Statements, conclusions, and recommendations in this report are based solely on the field observations and analytical results related to work performed by Allterra and there is no warranty, expressed or implied. Site conditions and data can change over time; therefore, data presented in this report is only applicable to the timeframe of this study. Allterra's services have been performed in accordance with environmental principles generally accepted at this time and location.

Should you have any questions, please contact Allterra at (831) 425-2608.

Sincerely,
Allterra Environmental, Inc.



Aaron Powers
Project Geologist



Joe Mangine, P.G. 8423
Senior Geologist

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- Figure 2, Site Plan
- Figure 3, Shallow Groundwater Potentiometric Map of 8-24-13
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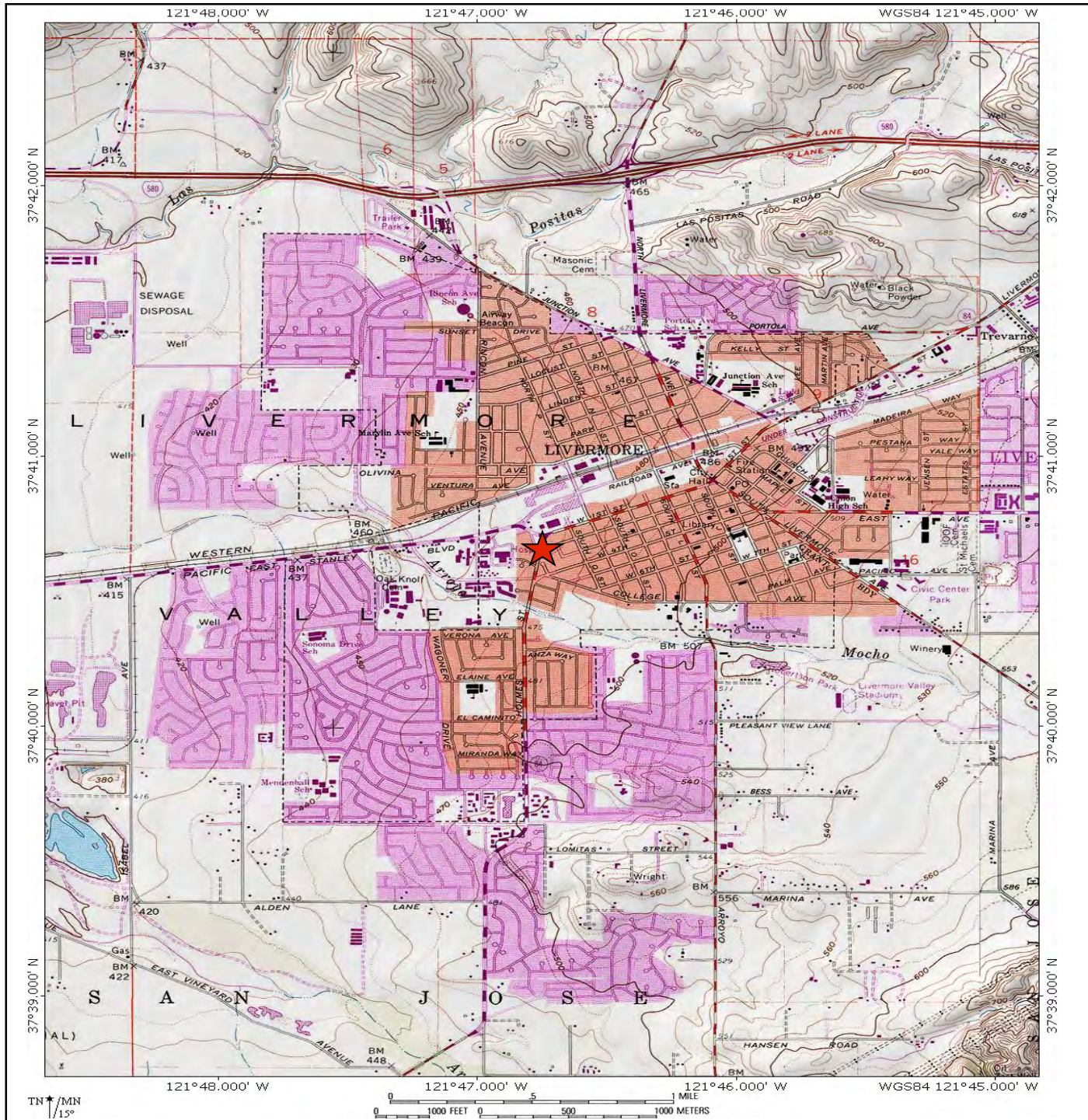
- Table 1, Groundwater Elevation Data
- Table 2, Groundwater Analytical Results

List of Appendices

- Appendix A, Groundwater Monitoring Field Protocol
- Appendix B, Groundwater Sampling Field Logs
- Appendix C, Certified Analytical Report and Chain-of-Custody

cc: Jerry Wickam, ACEHS

FIGURES 1 - 15

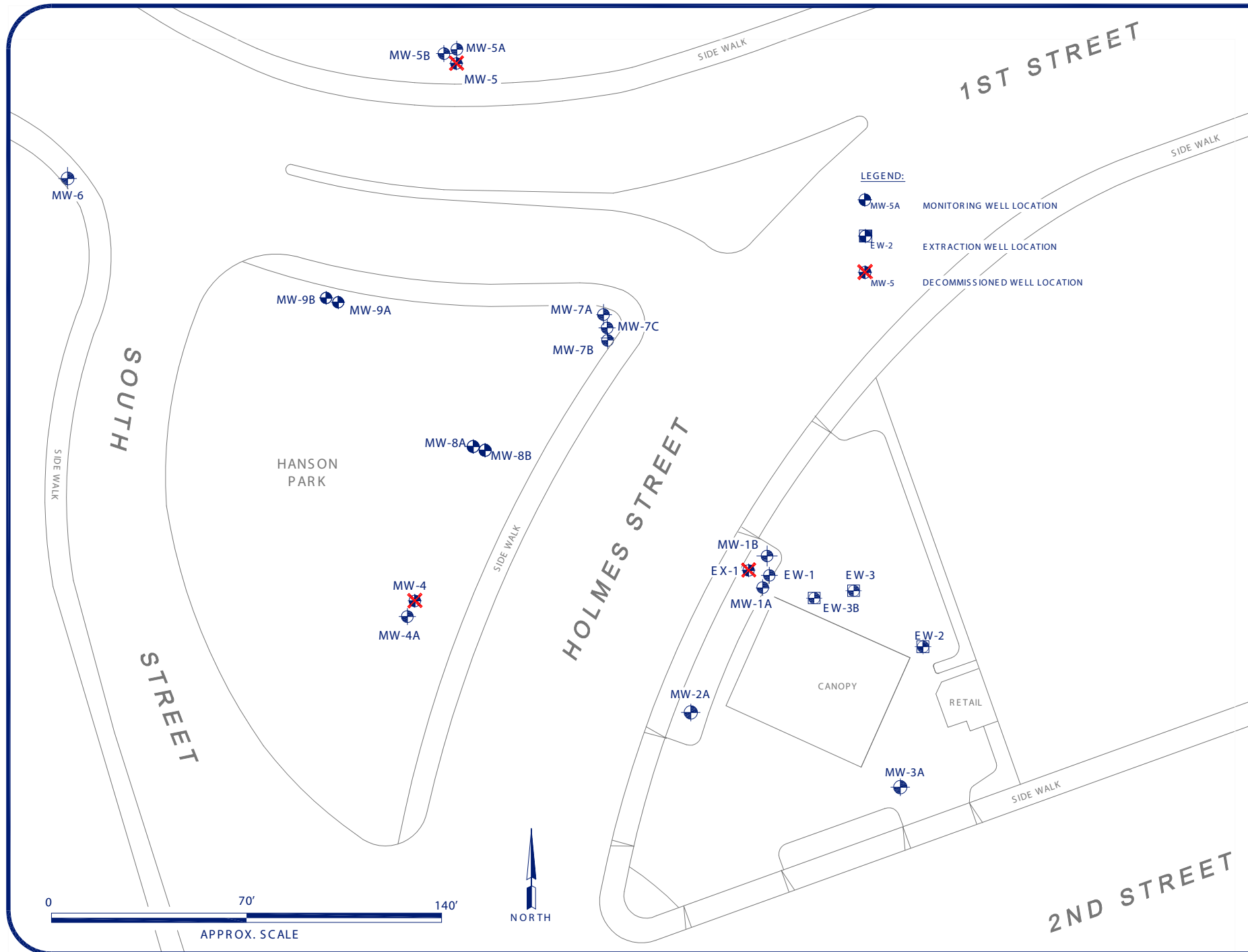


Vicinity Map
 Livermore Gas and Minimart
 160 Holmes Street
 Livermore, California

Figure 1

10/24/13

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General Notes

stamp

160 HOLMES STREET, LIVERMORE, CALIFORNIA
GROUNDWATER MONITORING REPORT

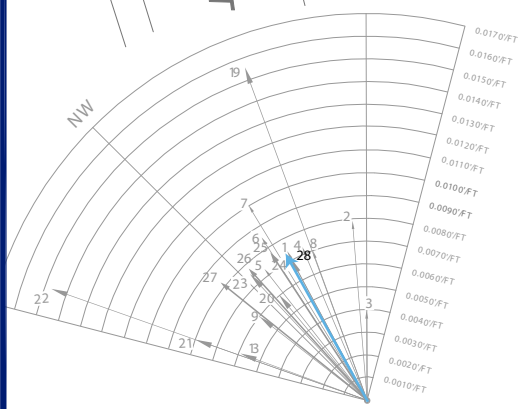
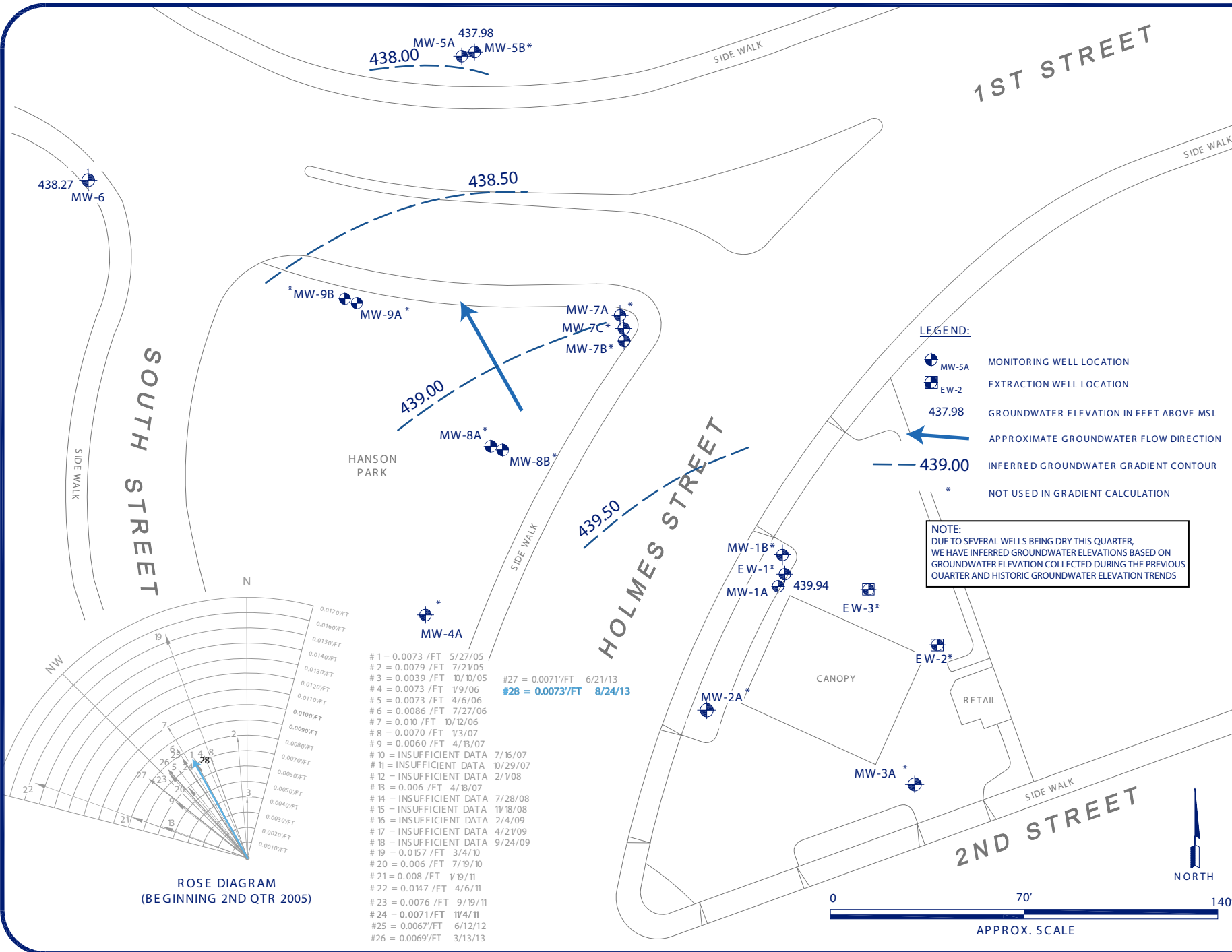
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Project Name and Address:
SITE PLAN
 THIRD QUARTER 2013
 GROUNDWATER MONITORING
 REPORT

<small>Project</small>	160	<small>Sheet</small>	FIGURE 2
<small>Date</small>	10-25-13		
<small>Scale</small>	see drawing		



ROSE DIAGRAM
(BEGINNING 2ND QTR 2005)

# 1 = 0.0073 /FT	5/27/05
# 2 = 0.0079 /FT	7/2/05
# 3 = 0.0039 /FT	10/10/05
# 4 = 0.0073 /FT	1/9/06
# 5 = 0.0073 /FT	4/6/06
# 6 = 0.0086 /FT	7/27/06
# 7 = 0.010 /FT	10/12/06
# 8 = 0.0070 /FT	1/3/07
# 9 = 0.0060 /FT	4/13/07
# 10 = INSUFFICIENT DATA	7/16/07
# 11 = INSUFFICIENT DATA	10/29/07
# 12 = INSUFFICIENT DATA	2/1/08
# 13 = 0.006 /FT	4/18/07
# 14 = INSUFFICIENT DATA	7/28/08
# 15 = INSUFFICIENT DATA	11/18/08
# 16 = INSUFFICIENT DATA	2/4/09
# 17 = INSUFFICIENT DATA	4/21/09
# 18 = INSUFFICIENT DATA	9/24/09
# 19 = 0.0157 /FT	3/4/10
# 20 = 0.006 /FT	7/19/10
# 21 = 0.008 /FT	1/19/11
# 22 = 0.0147 /FT	4/6/11
# 23 = 0.0076 /FT	9/19/11
# 24 = 0.0071/FT	11/4/11
# 25 = 0.0067/FT	6/12/12
# 26 = 0.0069/FT	3/13/13
# 27 = 0.0071/FT	6/21/13
# 28 = 0.0073/FT	8/24/13

LEGEND:

- MW-5A MONITORING WELL LOCATION
- EW-2 EXTRACTION WELL LOCATION
- 437.98 GROUNDWATER ELEVATION IN FEET ABOVE MSL
- APPROXIMATE GROUNDWATER FLOW DIRECTION
- 439.00 INFERRED GROUNDWATER GRADIENT CONTOUR
- * NOT USED IN GRADIENT CALCULATION

NOTE:
DUE TO SEVERAL WELLS BEING DRY THIS QUARTER, WE HAVE INFERRED GROUNDWATER ELEVATIONS BASED ON GROUNDWATER ELEVATION COLLECTED DURING THE PREVIOUS QUARTER AND HISTORIC GROUNDWATER ELEVATION TRENDS



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160 HOLMES STREET, LIVERMORE, CALIFORNIA
SOIL AND GROUNDWATER INVESTIGATION
AND REMEDIATION PROJECT

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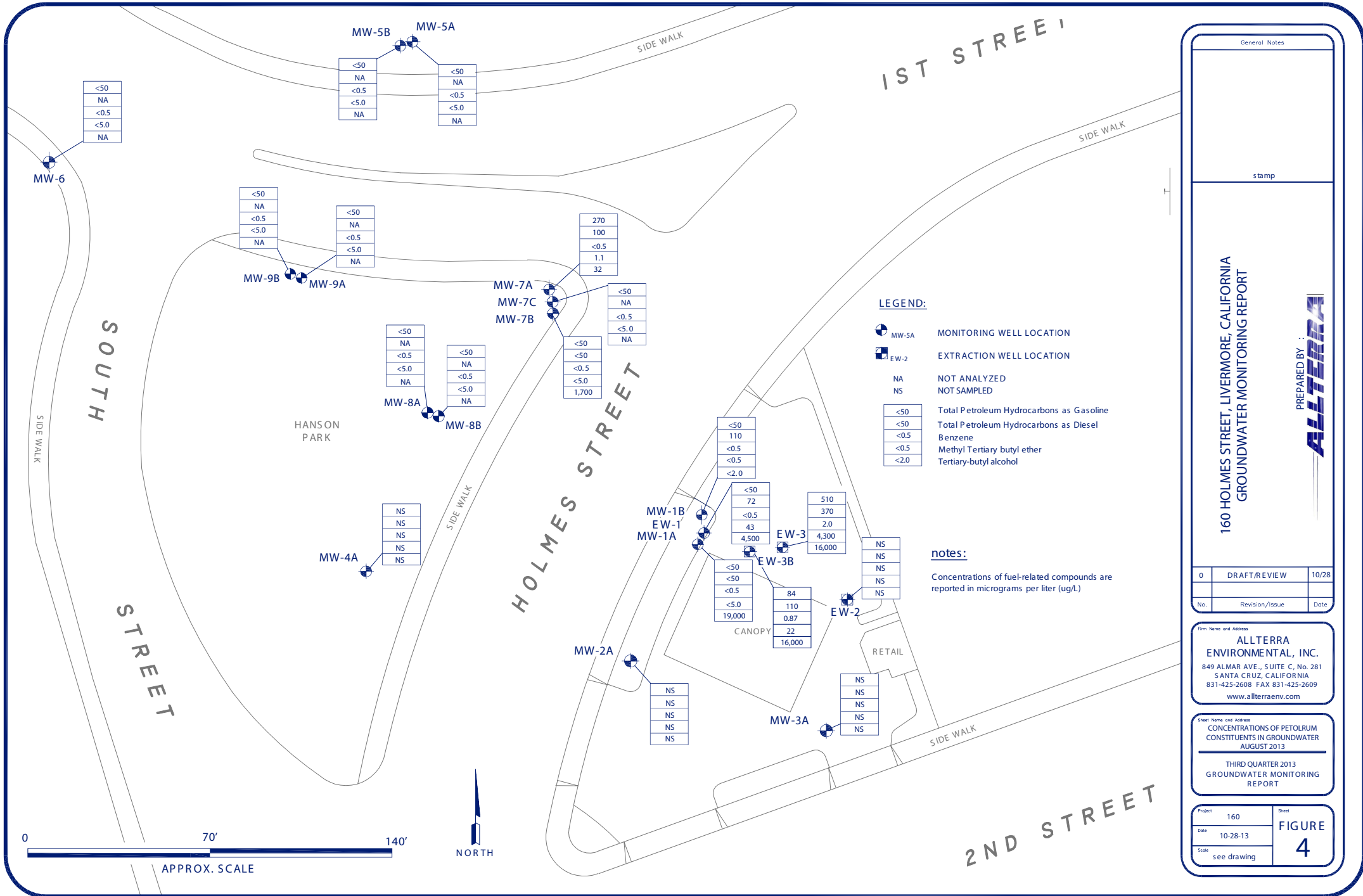
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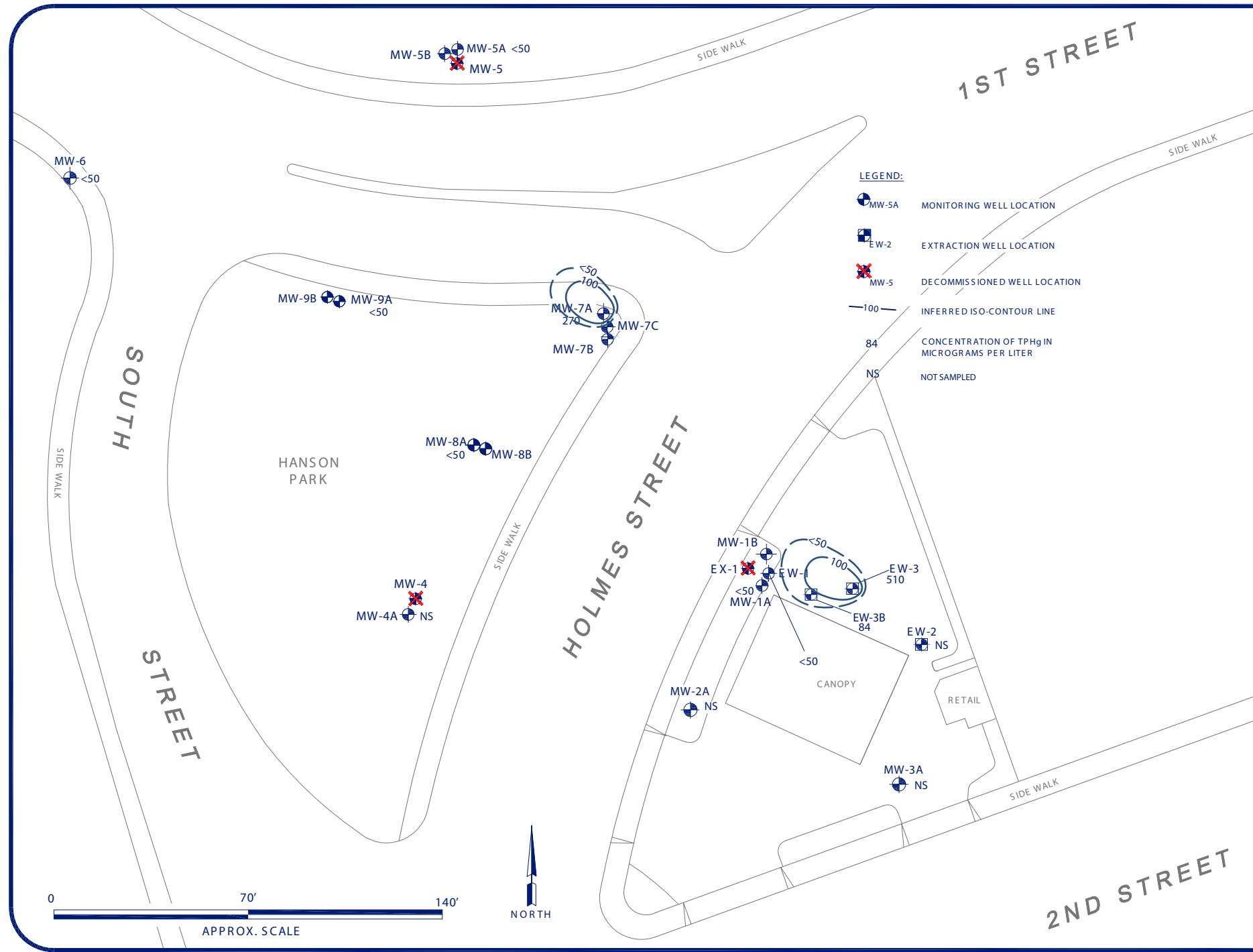
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Sheet Name and Address
SHALLOW GROUNDWATER
POTENTIOMETRIC
MAP FOR 8-24-13

THIRD QUARTER 2013
GROUNDWATER MONITORING
REPORT

Project	160	Sheet	
Date	10/28/13	FIGURE	
Scale	see drawing	3	





- LEGEND:**
- MW-5A MONITORING WELL LOCATION
 - EW-2 EXTRACTION WELL LOCATION
 - MW-5 DECOMMISSIONED WELL LOCATION
 - 100 INFERRED ISO-CONTOUR LINE
 - 84 CONCENTRATION OF TPHg IN MICROGRAMS PER LITER
 - NS NOT SAMPLED

General Notes

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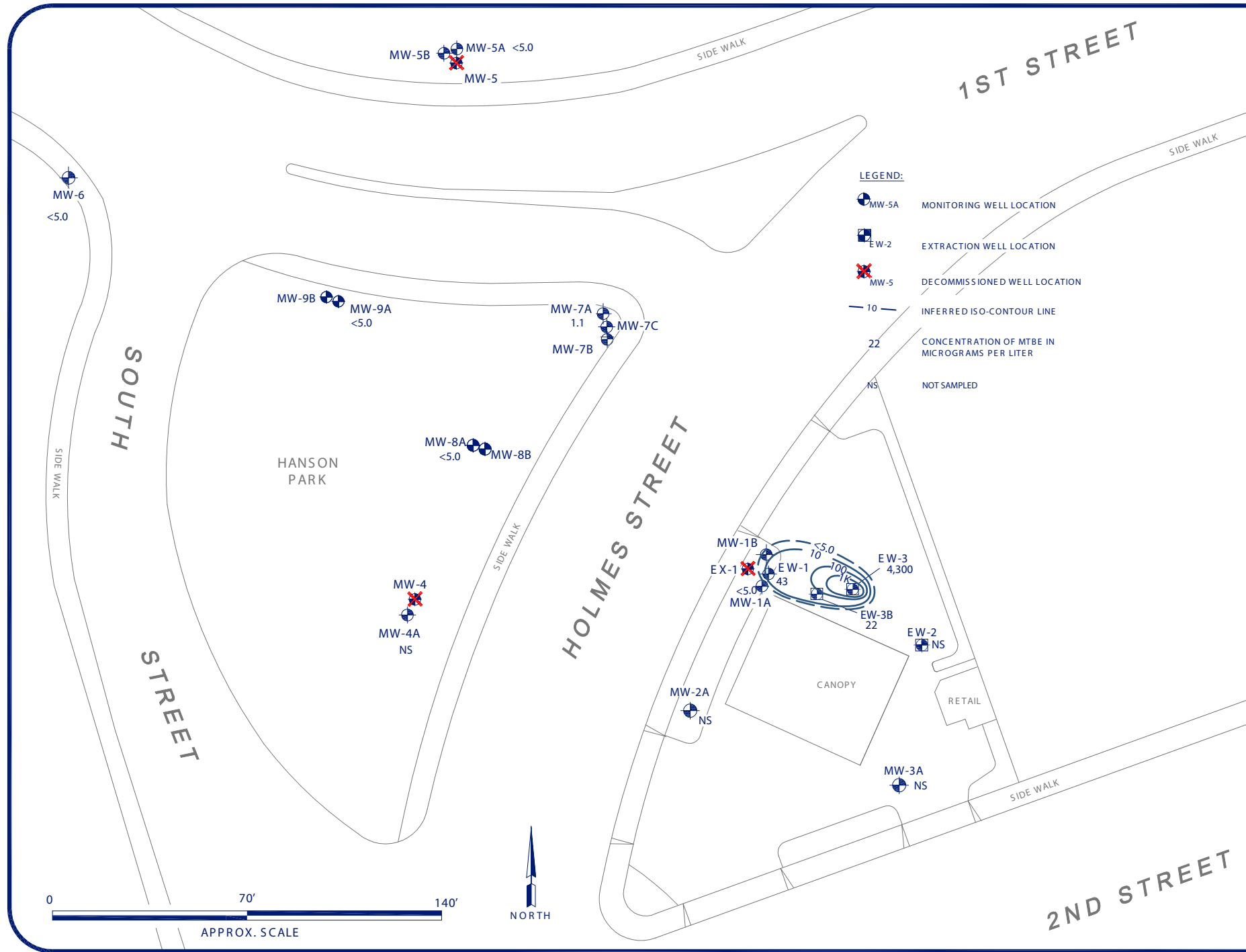
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Sheet Name and Address:
 TPHg ISO-CONCENTRATION
 MAP FOR "A" ZONE WELLS

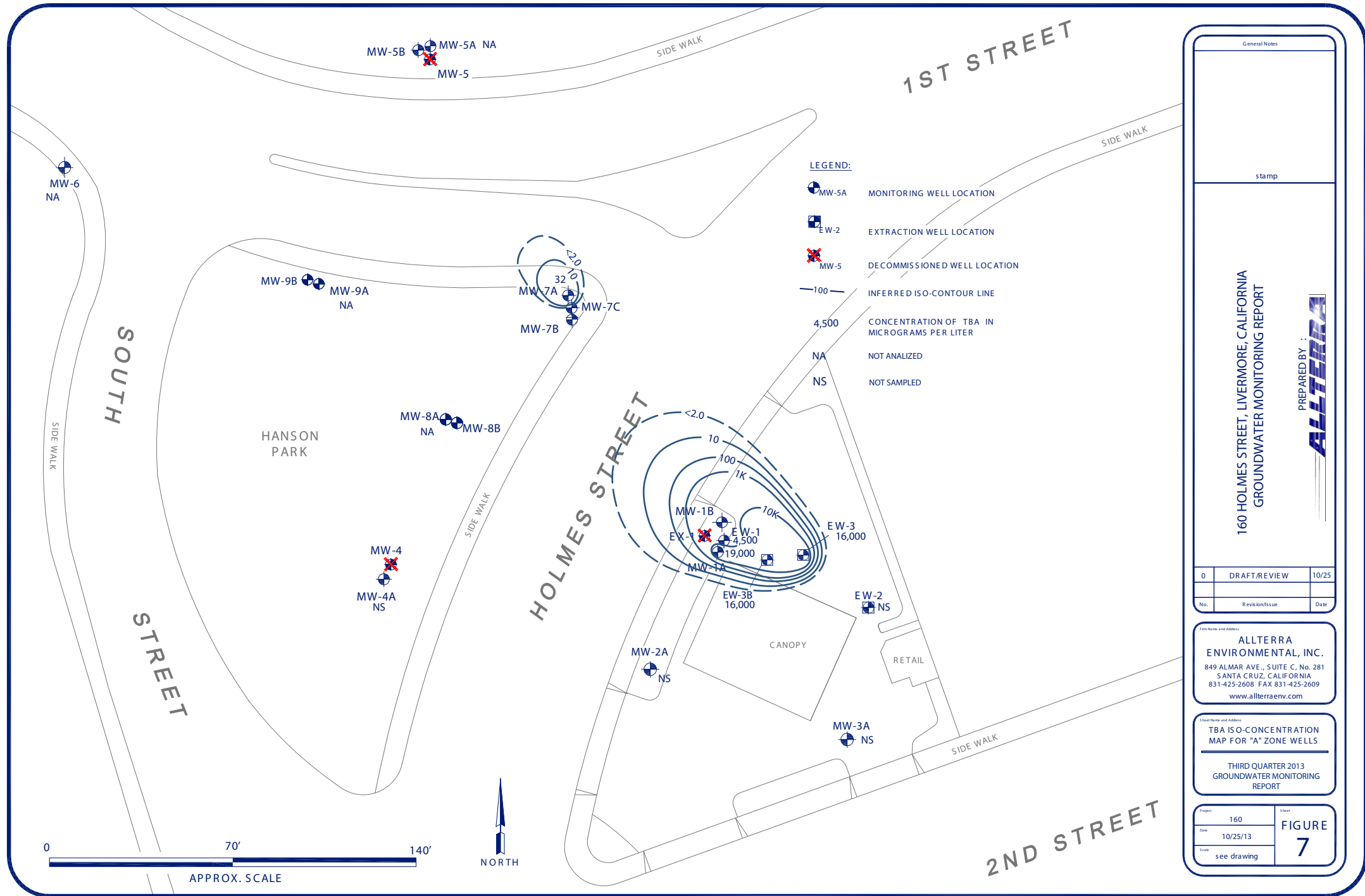
THIRD QUARTER 2013
 GROUNDWATER MONITORING
 REPORT

Project	160	Sheet	FIGURE
Date	10/24/13		5
Scale	see drawing		



- LEGEND:**
- MW-5A MONITORING WELL LOCATION
 - EW-2 EXTRACTION WELL LOCATION
 - MW-5 DECOMMISSIONED WELL LOCATION
 - 10 INFERRED ISO-CONTOUR LINE
 - 22 CONCENTRATION OF MTBE IN MICROGRAMS PER LITER
 - NS NOT SAMPLED

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<p>160 HOLMES STREET, LIVERMORE, CALIFORNIA GROUNDWATER MONITORING REPORT</p> <p style="text-align: right;">PREPARED BY : ALLTERRA</p>		
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<p>Sheet Name and Address</p> <p>MTBE ISO-CONCENTRATION MAP FOR "A" ZONE WELLS</p>		
<p>THIRD QUARTER 2013 GROUNDWATER MONITORING REPORT</p>		
Project	160	Sheet
Date	10/25/13	FIGURE
Scale	see drawing	6



General Notes

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160 HOLMES STREET, LIVERMORE, CALIFORNIA
GROUNDWATER MONITORING REPORT

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Sheet Name and Address
TBA ISO-CONCENTRATION MAP FOR "A" ZONE WELLS

THIRD QUARTER 2013
GROUNDWATER MONITORING REPORT

Project	160	Sheet	FIGURE
Date	10/25/13		7
Scale	see drawing		

Figure 8
MW-1A TPHg Concentrations in Groundwater Over Time

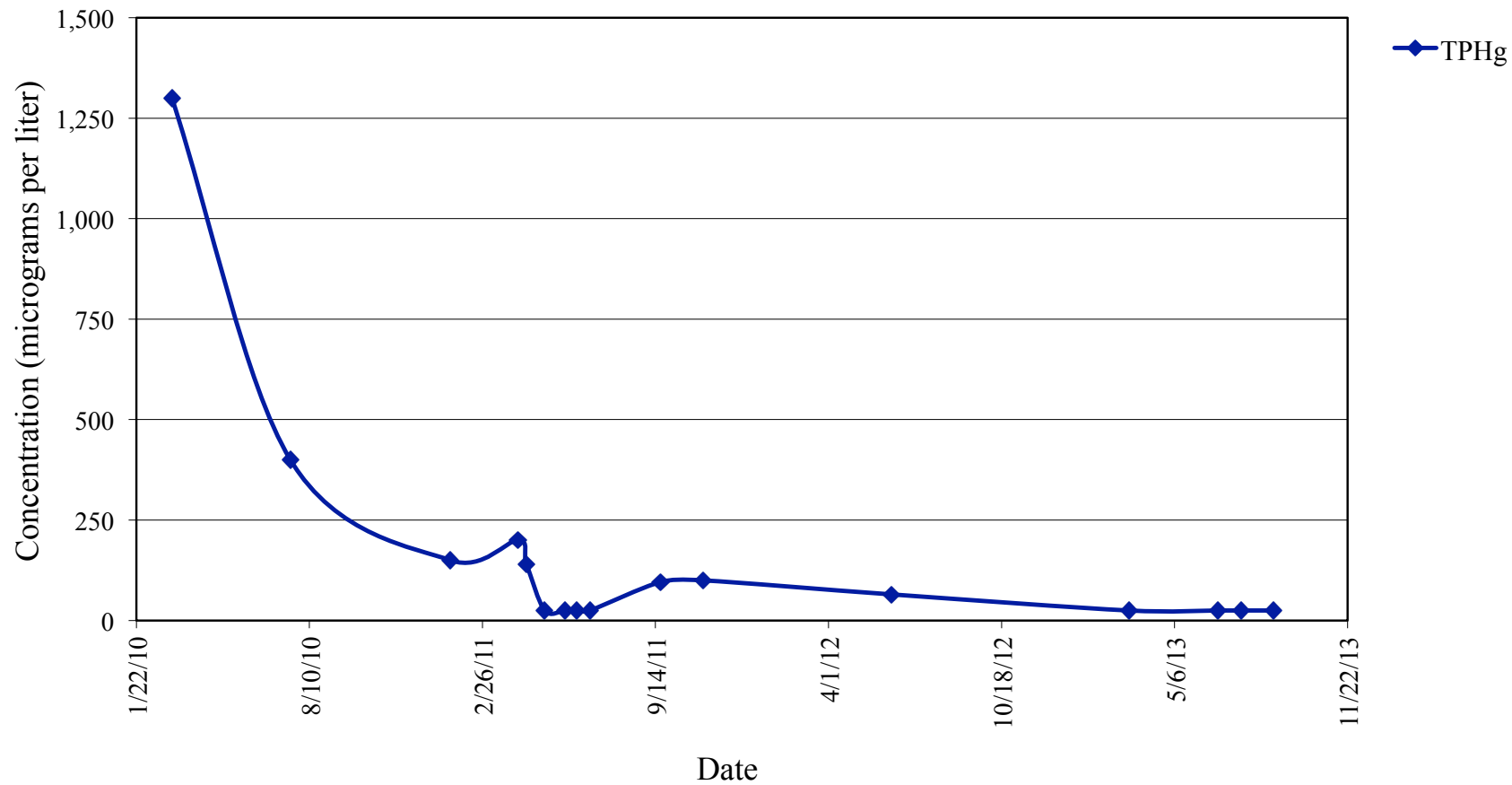


Figure 9
MW-1A MTBE Concentrations in Groundwater Over Time

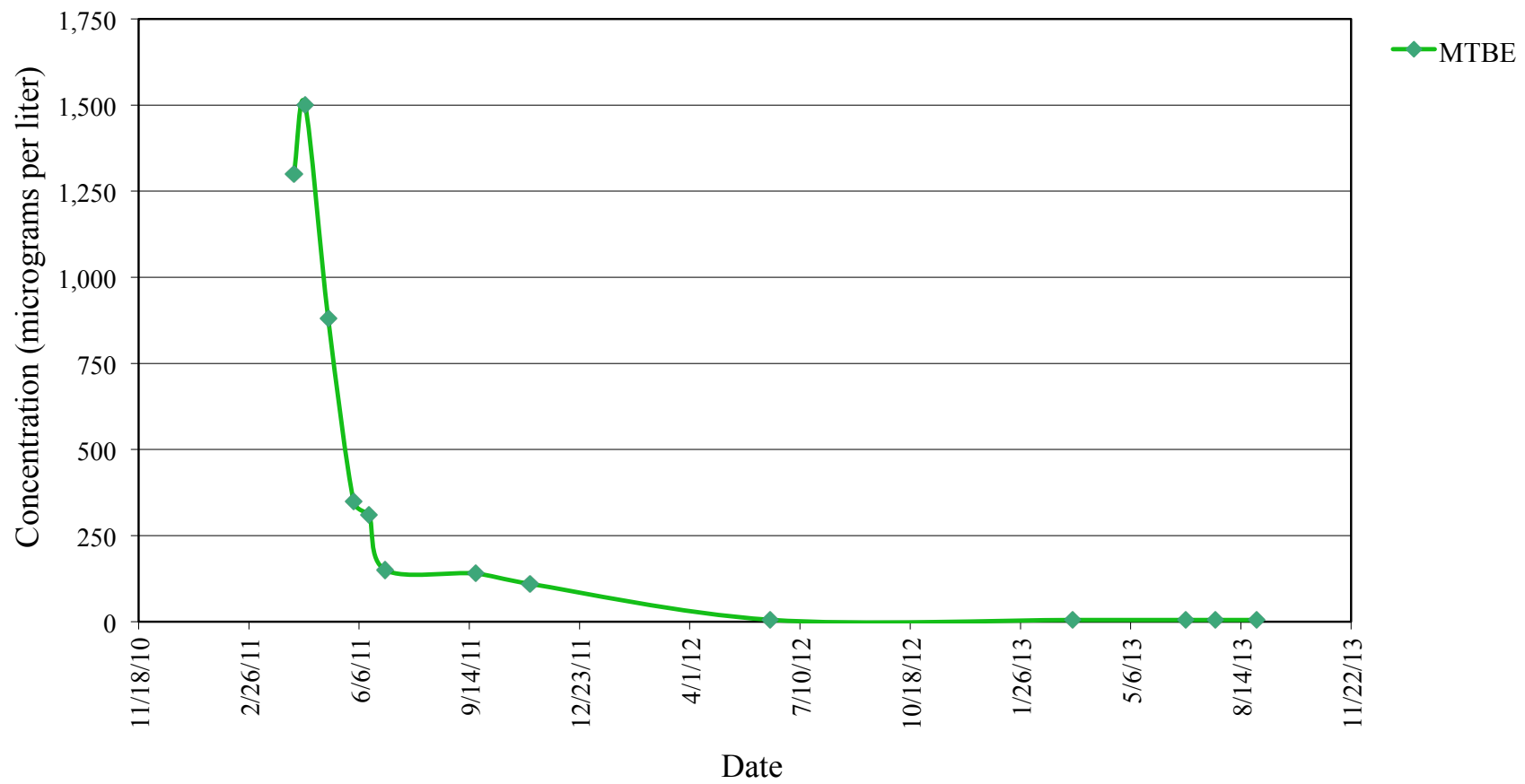


Figure 10
MW-1A TBA Concentrations in Groundwater Over Time

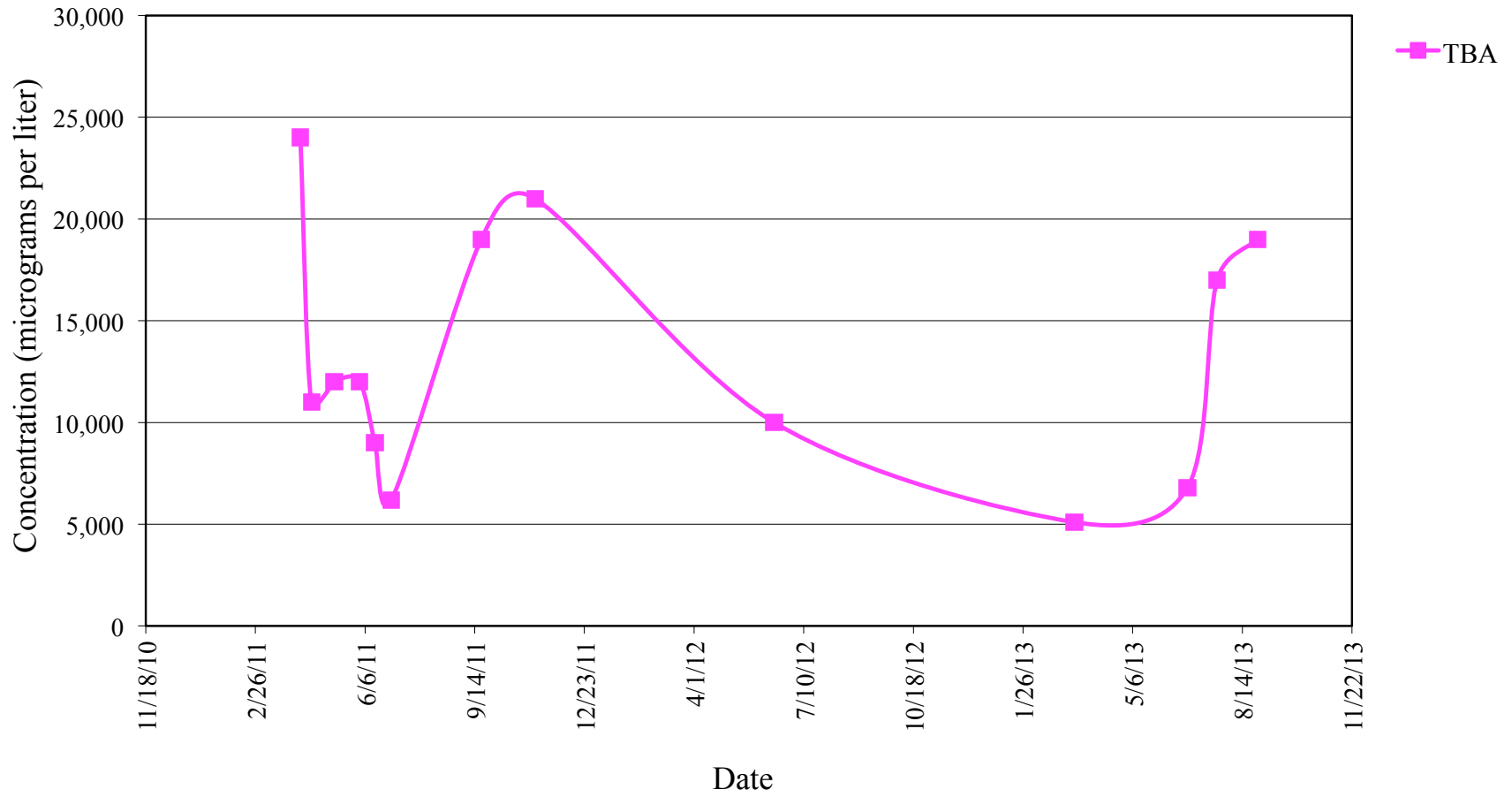


Figure 11
EW-1 TPHg Concentrations in Groundwater Over Time

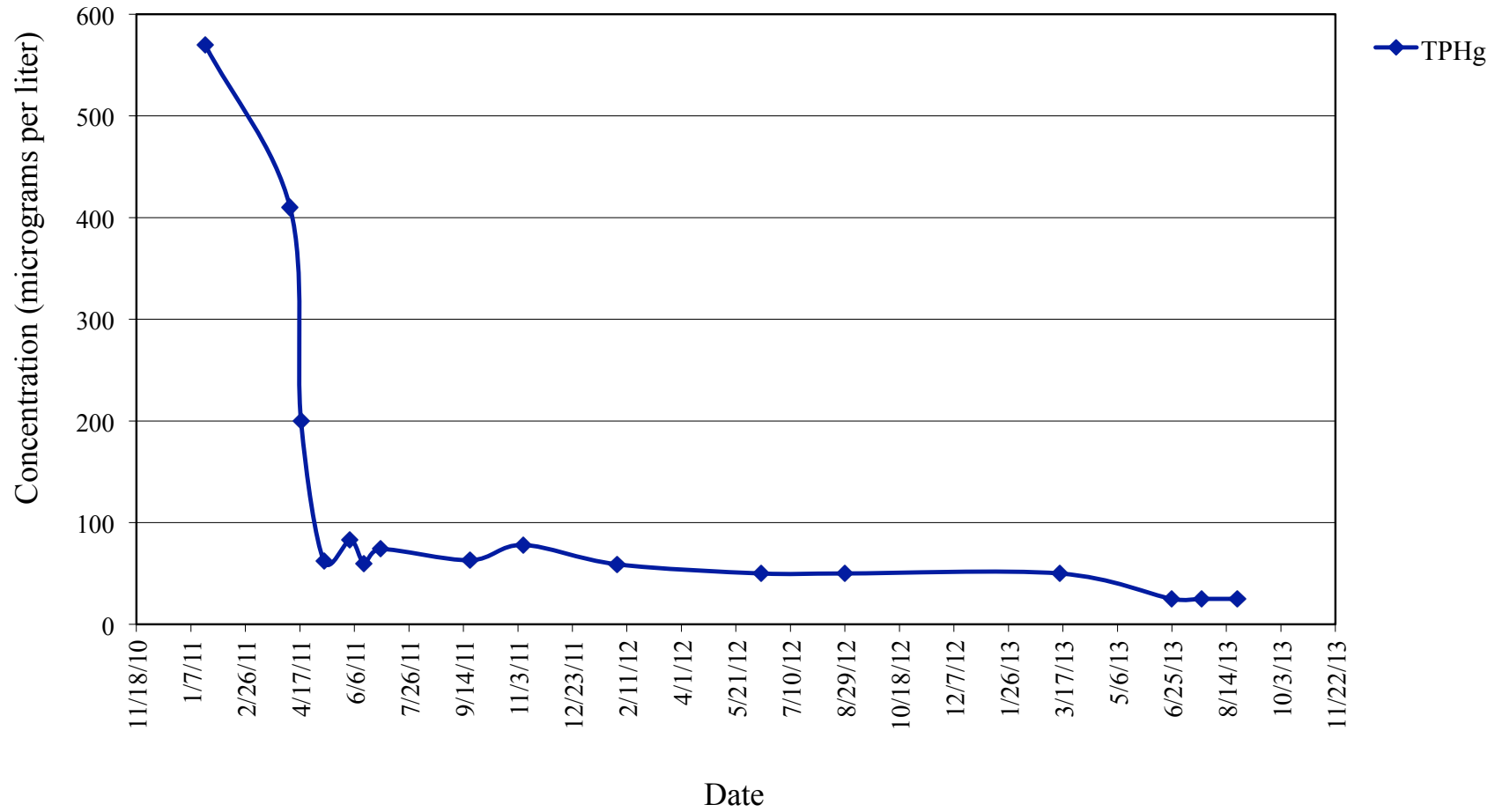


Figure 12
EW-1 MTBE Concentrations in Groundwater Over Time

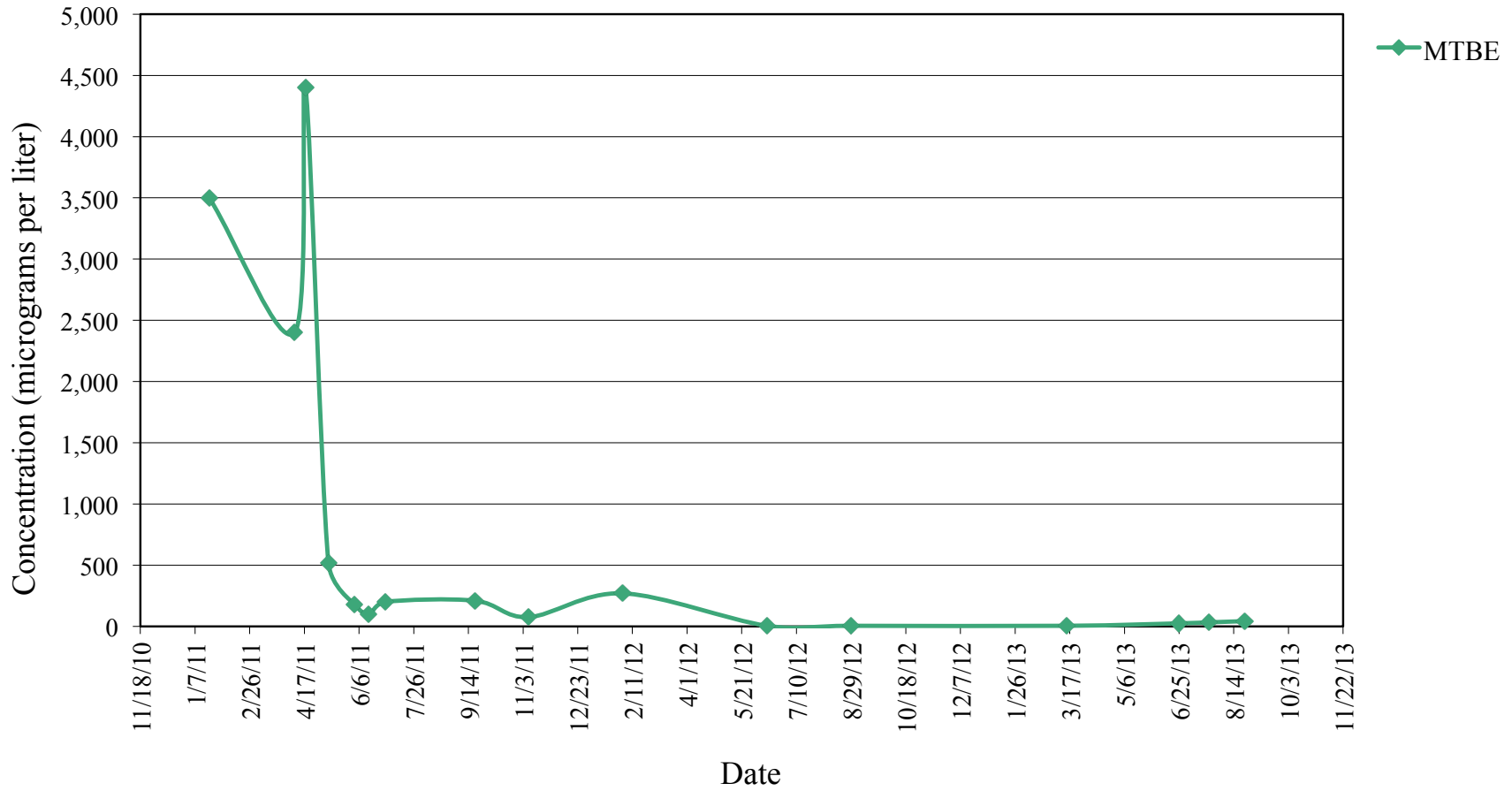


Figure 13
EW-1 TBA Concentrations in Groundwater Over Time

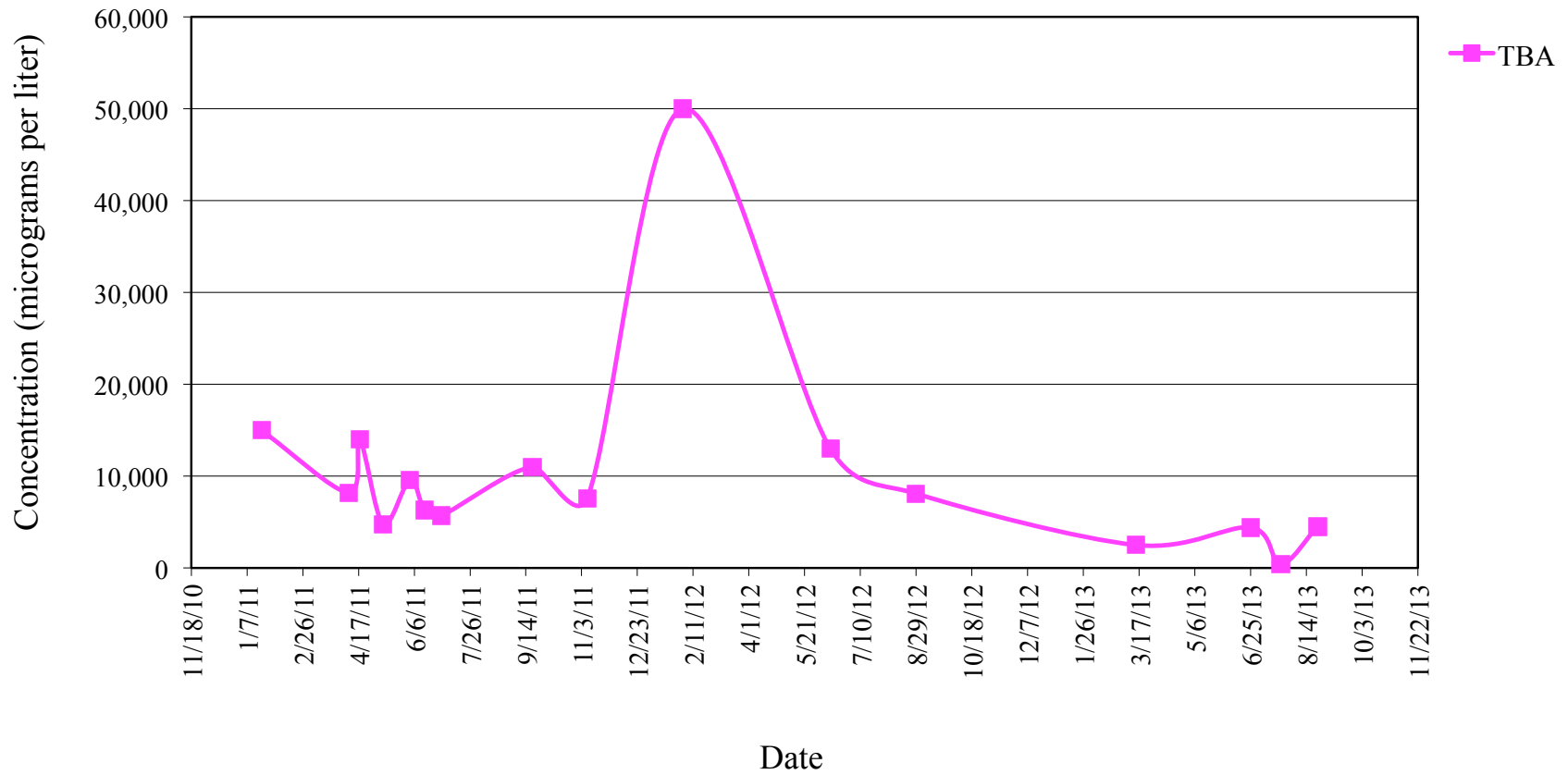


Figure 14
EW-3 TPHg Concentrations in Groundwater Over Time

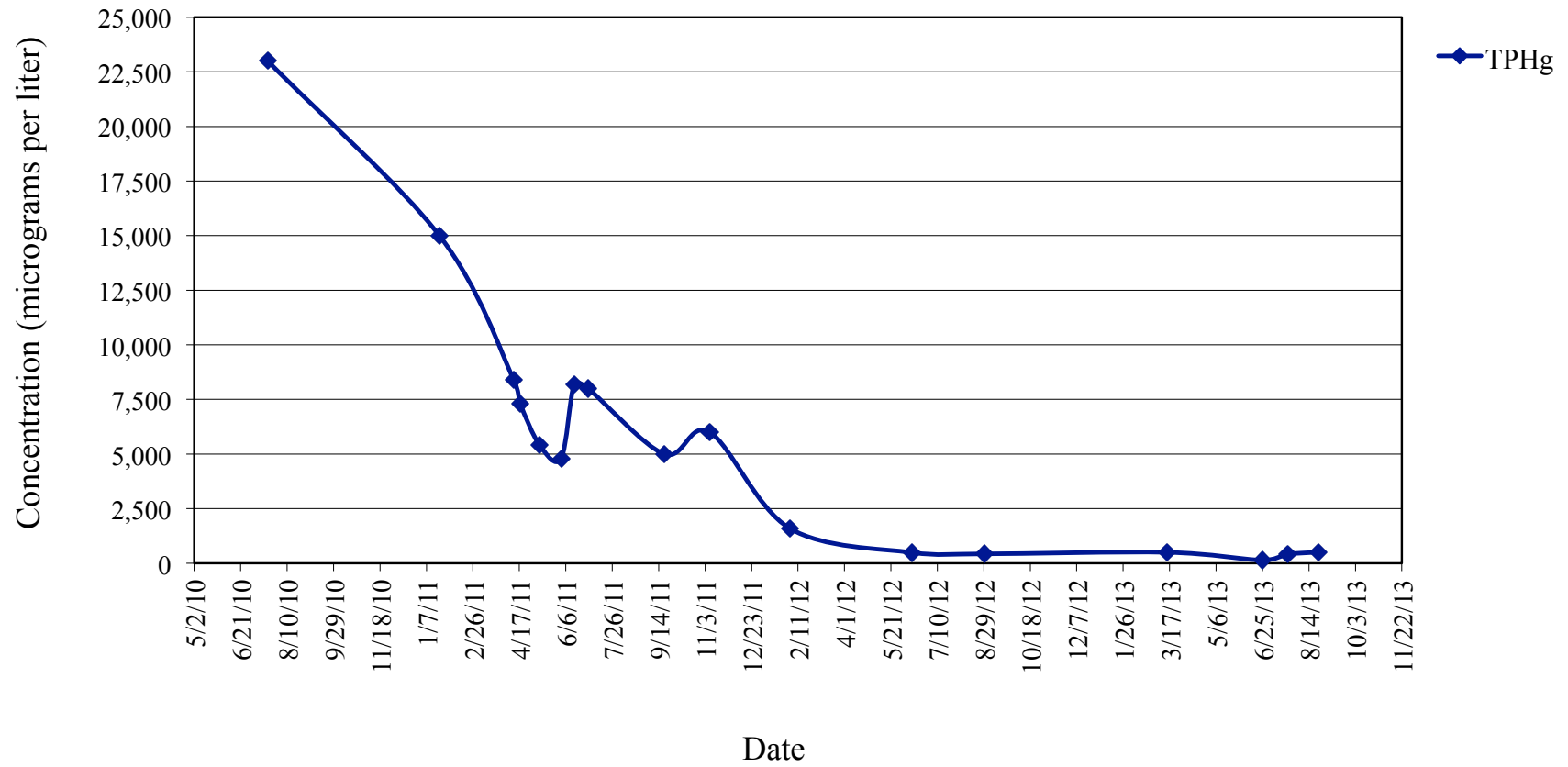
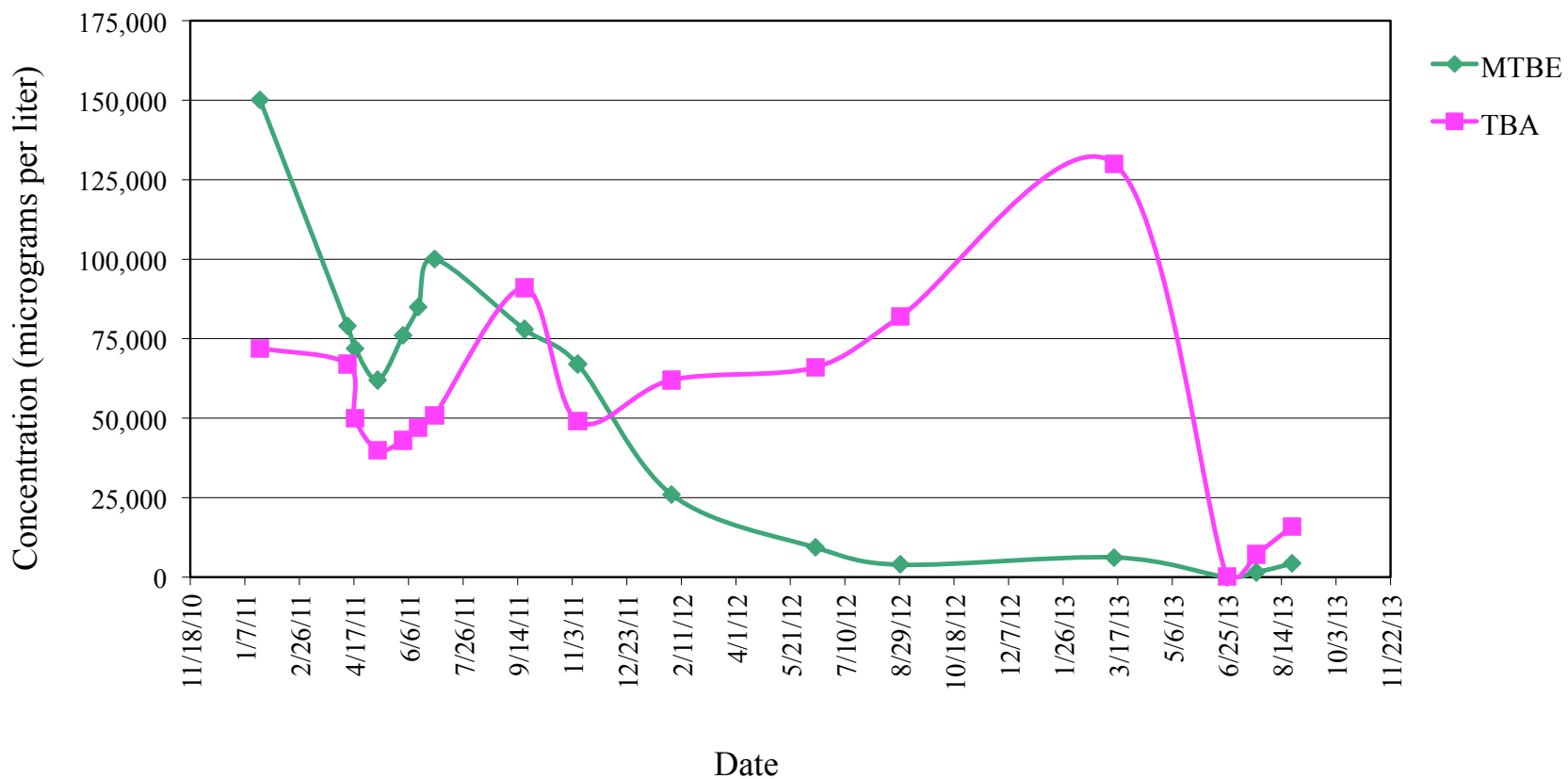


Figure 15
EW-3 MTBE and TBA Concentrations in Groundwater Over Time



TABLES 1 - 2

Table 1
Groundwater Elevation Data
160 Holmes Street, Livermore, California

Monitoring Well ID	Date	Top of Casing Elevation* (feet, msl)	Screen Interval (feet, bgs)	Depth to Groundwater (feet)	Groundwater Elevation (feet, msl)
MW-1*	8/11/00	465.03	15-30	NM	NC
	10/19/00	465.03	15-30	21.94	443.09
	2/22/01	465.03	15-30	22.91	442.12
	5/30/01	465.03	15-30	Dry	NC
	11/14/01	465.03	15-30	Dry	NC
	5/7/02	465.03	15-30	Dry	NC
	9/11/02	465.03	15-30	26.16	438.87
	12/1/02	465.03	15-30	27.55	437.48
	3/14/03	465.03	15-30	22.63	442.40
	6/25/03	465.03	15-30	22.10	442.93
	9/16/03	465.03	15-30	24.91	440.12
	12/22/03	465.03	15-30	21.75	443.28
	3/10/04	465.03	15-30	17.45	447.58
	6/15/04	465.03	15-30	22.38	442.65
	9/17/04	465.03	15-30	25.61	439.42
	12/10/04	465.03	15-30	22.18	442.85
	3/2/05	465.03	15-30	16.95	448.08
	5/27/05	465.03	15-30	18.42	446.61
	7/21/05	465.03	15-30	21.38	443.65
	10/10/05	465.03	15-30	22.49	442.54
1/9/06	465.03	15-30	18.05	446.98	
MW-1A*	4/6/06	465.03	15-30	15.60	449.43
	7/27/06	465.03	15-30	22.42	442.61
	10/12/06	465.03	15-30	23.46	441.57
	1/3/07	465.03	15-30	21.00	444.03
	4/13/07	465.03	15-30	23.24	441.79
	7/16/07	465.03	15-30	Dry	NC
	10/29/07	465.03	15-30	Dry	NC
	2/1/08	465.03	15-30	Dry	NC
	4/18/08	465.03	15-30	27.34	437.69
	7/28/08	465.03	15-30	Dry	NC
	11/18/08	465.03	15-30	Dry	NC
	2/4/09	465.03	15-30	Dry	NC
	4/21/09	465.03	15-30	Dry	NC
	9/24/09	465.03	15-30	35.00	430.03
	3/4/10	465.03	15-30	28.05	436.98
	7/19/10	465.03	15-30	23.85	441.18
	1/19/11	465.03	15-30	23.12	441.91
	4/6/11	465.03	15-30	18.40	446.63
	4/18/11	465.03	15-30	18.70	446.33
	5/9/11	465.03	15-30	19.26	445.77
	6/1/11	465.03	15-30	20.10	444.93
	6/15/11	465.03	15-30	20.44	444.59
	6/30/11	465.03	15-30	20.73	444.30
	9/19/11	465.03	15-30	22.91	442.12
	11/4/11	465.03	15-30	23.00	442.03
	2/1/12	465.03	15-30	Dry	NC
	6/13/12	465.03	15-30	26.90	438.13
	8/28/12	465.03	15-30	Dry	NC
	3/13/13	465.03	15-30	21.94	443.09
	6/21/13	465.03	15-30	25.52	439.51
8/24/13	465.03	15-30	25.09	439.94	

Table 1
Groundwater Elevation Data
 160 Holmes Street, Livermore, California

Monitoring Well ID	Date	Top of Casing Elevation* (feet, msl)	Screen Interval (feet, bgs)	Depth to Groundwater (feet)	Groundwater Elevation (feet, msl)
MW-1B**	4/6/06	465.02	50-55	15.59	449.43
	7/27/06	465.02	50-55	22.47	442.55
	10/12/06	465.02	50-55	23.51	441.51
	1/3/07	465.02	50-55	21.04	443.98
	4/13/07	465.02	50-55	23.30	441.72
	7/16/07	465.02	50-55	35.57	429.45
	10/29/07	465.02	50-55	47.32	417.70
	2/1/08	465.02	50-55	33.90	431.12
	4/18/08	465.02	50-55	27.35	437.67
	7/28/08	465.02	50-55	44.03	420.99
	11/18/08	465.02	50-55	48.50	416.52
	2/4/09	465.02	50-55	46.83	418.19
	4/21/09	465.02	50-55	37.10	427.92
	9/24/09	465.02	50-55	37.76	427.26
	3/4/10	465.02	50-55	27.41	437.61
	7/19/10	465.02	50-55	NM	NC
	1/19/11	465.02	50-55	23.10	441.92
	4/6/11	465.02	50-55	18.40	446.62
	4/18/11	465.02	50-55	18.60	446.42
	5/9/11	465.02	50-55	19.11	445.91
	6/1/11	465.02	50-55	20.10	444.92
	6/15/11	465.02	50-55	20.44	444.58
	6/30/11	465.02	50-55	20.74	444.28
	9/19/11	465.02	50-55	22.92	442.10
	11/4/11	465.02	50-55	22.95	442.07
	2/2/12	465.02	50-55	33.00	432.02
	6/13/12	465.02	50-55	26.99	438.03
	8/28/12	465.02	50-55	29.51	435.51
	3/13/13	465.02	50-55	21.96	443.06
	6/21/13	465.02	50-55	24.55	440.47
8/24/13	465.02	50-55	25.11	439.91	
MW-2*	8/11/00	464.94	15-30	NM	NC
	10/19/00	464.94	15-30	21.80	443.14
	2/22/01	464.94	15-30	22.87	442.07
	5/30/01	464.94	15-30	Dry	NC
	11/14/01	464.94	15-30	Dry	NC
	5/7/02	464.94	15-30	26.70	438.24
	9/11/02	464.94	15-30	25.96	438.98
	12/11/02	464.94	15-30	27.56	437.38
	3/14/03	464.94	15-30	22.41	442.53
	6/25/03	464.94	15-30	21.97	442.97
	9/16/03	464.94	15-30	24.70	440.24
	12/22/03	464.94	15-30	21.58	443.36
	3/10/04	464.94	15-30	17.31	447.63
	6/15/04	464.94	15-30	22.18	442.76
	9/17/04	464.94	15-30	25.44	439.50
	12/10/04	464.94	15-30	22.00	442.94
	3/2/05	464.94	15-30	16.75	448.19
	5/27/05	464.94	15-30	18.29	446.65
	7/21/05	464.94	15-30	20.46	444.48
	10/10/05	464.94	15-30	22.30	442.64
1/9/06	464.94	15-30	17.67	447.27	

Table 1
Groundwater Elevation Data
160 Holmes Street, Livermore, California

Monitoring Well ID	Date	Top of Casing Elevation* (feet, msl)	Screen Interval (feet, bgs)	Depth to Groundwater (feet)	Groundwater Elevation (feet, msl)	
MW-2A*	4/6/06	464.94	15-30	15.47	449.47	
	7/27/06	464.94	15-30	22.27	442.67	
	10/12/06	464.94	15-30	23.35	441.59	
	1/3/07	464.94	15-30	20.90	444.04	
	4/13/07	464.94	15-30	23.16	441.78	
	7/16/07	464.94	15-30	Dry	NC	
	10/29/07	464.94	15-30	Dry	NC	
	2/1/08	464.94	15-30	Dry	NC	
	4/18/08	464.94	15-30	27.26	437.68	
	7/28/08	464.94	15-30	Dry	NC	
	11/18/08	464.94	15-30	Dry	NC	
	2/4/09	464.94	15-30	Dry	NC	
	4/21/09	464.94	15-30	Dry	NC	
	9/24/09	464.94	15-30	Dry	NC	
	3/4/10	464.94	15-30	25.12	439.82	
	7/20/10	464.94	15-30	25.90	439.04	
	1/19/11	464.94	15-30	25.30	439.64	
	4/6/11	464.94	15-30	18.30	446.64	
	9/19/11	464.94	15-30	22.45	442.49	
	11/4/11	464.94	15-30	22.77	442.17	
	2/1/12	464.94	15-30	Dry	NC	
	6/12/12	464.94	15-30	26.79	438.15	
	8/28/12	464.94	15-30	NS	NC	
	3/13/13	464.94	15-30	21.81	443.13	
	6/21/13	464.94	15-30	24.33	440.61	
	8/24/13	464.94	15-30	NM	NC	
	MW-3*	8/11/00	465.84	15-30	NM	NC
		10/19/00	465.84	15-30	22.45	443.39
		2/22/01	465.84	15-30	23.51	442.33
5/30/01		465.84	15-30	Dry	NC	
11/14/01		465.84	15-30	Dry	NC	
5/7/02		465.84	15-30	Dry	NC	
9/11/02		465.84	15-30	26.61	439.23	
12/11/02		465.84	15-30	28.18	437.66	
3/14/03		465.84	15-30	23.04	442.80	
6/25/03		465.84	15-30	22.59	443.25	
9/16/03		465.84	15-30	25.33	440.51	
12/22/03		465.84	15-30	22.37	443.47	
3/10/04		465.84	15-30	17.88	447.96	
6/15/04		465.84	15-30	22.82	443.02	
9/17/04		465.84	15-30	26.09	439.75	
12/10/04		465.84	15-30	22.65	443.19	
3/5/05		465.84	15-30	17.33	448.51	
5/27/05		465.84	15-30	18.89	446.95	
7/21/05		465.84	15-30	21.10	444.74	
10/10/05		465.84	15-30	22.94	442.90	
1/9/06	465.84	15-30	18.24	447.60		

Table 1
Groundwater Elevation Data
160 Holmes Street, Livermore, California

Monitoring Well ID	Date	Top of Casing Elevation* (feet, msl)	Screen Interval (feet, bgs)	Depth to Groundwater (feet)	Groundwater Elevation (feet, msl)	
MW-3A*	4/6/06	465.84	15-30	16.02	449.82	
	7/27/06	465.84	15-30	22.90	442.94	
	10/12/06	465.84	15-30	23.99	441.85	
	1/3/07	465.84	15-30	21.52	444.32	
	4/13/07	465.84	15-30	23.78	442.06	
	7/16/07	465.84	15-30	Dry	NC	
	10/29/07	465.84	15-30	Dry	NC	
	2/1/08	465.84	15-30	Dry	NC	
	4/18/08	465.84	15-30	27.86	437.98	
	7/28/08	465.84	15-30	Dry	NC	
	11/18/08	465.84	15-30	Dry	NC	
	2/4/09	465.84	15-30	Dry	NC	
	4/21/09	465.84	15-30	Dry	NC	
	9/24/09	465.84	15-30	Dry	NC	
	3/4/10	465.84	15-30	27.95	437.89	
	7/19/10	465.84	15-30	26.55	439.29	
	1/19/11	465.84	15-30	23.63	442.21	
	4/6/11	465.84	15-30	18.90	446.94	
	9/19/11	465.85	15-30	23.40	442.45	
	11/4/11	465.85	15-30	23.60	442.25	
	2/1/12	465.85	15-30	Dry	NC	
	6/12/12	465.85	15-30	27.47	438.38	
	8/28/12	465.85	15-30	NM	NC	
	3/13/13	465.85	15-30	22.47	443.38	
	6/21/13	465.85	15-30	24.99	440.86	
	8/24/13	465.85	15-30	NM	NC	
	MW-4***	11/14/01	465.15	15-30	33.84	431.31
		5/7/02	465.15	15-30	26.75	438.40
9/11/02		465.15	15-30	26.66	438.49	
12/11/02		465.15	15-30	28.39	436.76	
3/14/03		465.15	15-30	23.14	442.01	
6/25/03		465.15	15-30	22.72	442.43	
9/16/03		465.15	15-30	25.39	439.76	
12/22/03		465.15	15-30	22.42	442.73	
3/4/04		465.15	15-30	18.20	446.95	
6/15/04		465.15	15-30	22.95	442.20	
9/17/04		465.15	15-30	26.12	439.03	
12/10/04		465.15	15-30	22.73	442.42	
3/2/05		465.15	15-30	17.60	447.55	
5/27/05		465.15	15-30	19.14	446.01	
7/21/05		465.15	15-30	21.25	443.90	
10/10/05		465.15	15-30	22.85	442.30	
1/9/06		465.15	15-30	18.54	446.61	

Table 1
Groundwater Elevation Data
160 Holmes Street, Livermore, California

Monitoring Well ID	Date	Top of Casing Elevation* (feet, msl)	Screen Interval (feet, bgs)	Depth to Groundwater (feet)	Groundwater Elevation (feet, msl)	
MW-4A**	4/6/06	464.96	15-30	16.19	448.77	
	7/27/06	464.96	15-30	22.87	442.09	
	10/12/06	464.96	15-30	23.90	441.06	
	1/3/07	464.96	15-30	21.52	443.44	
	4/13/07	464.96	15-30	23.78	441.18	
	7/16/07	464.96	15-30	Dry	NC	
	10/29/07	464.96	15-30	Dry	NC	
	2/1/08	464.96	15-30	Dry	NC	
	4/18/08	464.96	15-30	27.91	437.05	
	7/28/08	464.96	15-30	Dry	NC	
	11/18/08	464.96	15-30	Dry	NC	
	2/4/09	464.96	15-30	Dry	NC	
	9/24/09	464.96	15-30	Dry	NC	
	4/21/09	464.96	15-30	Dry	NC	
	3/4/10	464.96	15-30	25.66	439.30	
	7/20/10	464.96	15-30	24.25	440.71	
	1/19/11	464.96	15-30	23.64	441.32	
	4/6/11	464.96	15-30	18.90	446.06	
	9/19/11	464.96	15-30	23.43	441.53	
	11/4/11	464.96	15-30	23.40	441.56	
	2/1/12	464.96	15-30	Dry	NC	
	6/12/12	464.96	15-30	27.27	437.69	
	8/28/12	464.96	15-30	NM	NC	
	3/13/13	464.96	15-30	22.38	442.58	
	6/21/13	464.96	15-30	24.88	440.08	
	8/24/13	464.96	15-30	NM	NC	
	MW-5***	11/14/01	464.65	20-50	34.94	429.71
		5/7/02	464.65	20-50	27.90	436.75
9/11/02		464.65	20-50	27.99	436.66	
12/11/02		464.65	20-50	29.50	435.15	
3/14/03		464.65	20-50	24.26	440.39	
6/25/03		464.65	20-50	24.01	440.64	
9/16/03		464.65	20-50	26.83	437.82	
12/22/03		464.65	20-50	23.68	440.97	
3/10/04		464.65	20-50	19.22	445.43	
6/15/04		464.65	20-50	24.20	440.45	
9/17/04		464.65	20-50	27.68	436.97	
12/10/04		464.65	20-50	23.93	440.72	
3/2/05		464.65	20-50	18.56	446.09	
5/27/05		464.65	20-50	20.15	444.50	
7/21/05		464.65	20-50	22.55	442.10	
10/10/05		464.65	20-50	23.35	441.30	
1/9/06		464.65	20-50	19.53	445.12	

Table 1
Groundwater Elevation Data
 160 Holmes Street, Livermore, California

Monitoring Well ID	Date	Top of Casing Elevation* (feet, msl)	Screen Interval (feet, bgs)	Depth to Groundwater (feet)	Groundwater Elevation (feet, msl)
MW-5A**	4/6/06	464.64	20-35	17.35	447.29
	7/27/06	464.64	20-35	24.40	440.24
	10/12/06	464.64	20-35	25.58	439.06
	1/3/07	464.64	20-35	22.53	442.11
	4/13/07	464.64	20-35	24.77	439.87
	7/16/07	464.64	20-35	Dry	NC
	10/29/07	464.64	20-35	Dry	NC
	2/1/08	464.64	20-35	34.03	430.61
	4/18/08	464.64	20-35	28.13	436.51
	7/28/08	464.64	20-35	Dry	NC
	11/18/08	464.64	20-35	33.82	430.82
	2/4/09	464.64	20-35	Dry	NC
	4/21/09	464.64	20-35	Dry	NC
	9/24/09	464.64	20-35	Dry	NC
	3/4/10	464.64	20-35	28.77	435.87
	7/20/10	464.64	20-35	24.57	440.07
	1/19/11	464.64	20-35	24.52	440.12
	4/6/11	464.64	20-35	19.98	444.66
	9/19/11	464.64	20-35	24.62	440.02
	11/4/11	464.64	20-35	24.50	440.14
	2/1/12	464.64	20-35	Dry	NC
	6/12/12	464.64	20-35	28.39	436.25
	8/28/12	464.64	20-35	31.10	433.54
	3/13/13	464.64	20-35	23.38	441.26
6/21/13	464.64	20-35	26.15	438.49	
8/24/13	464.64	20-35	26.66	437.98	
MW-5B**	4/6/06	464.59	50-55	17.44	447.15
	7/27/06	464.59	50-55	24.09	440.50
	10/12/06	464.59	50-55	25.17	439.42
	1/3/07	464.59	50-55	22.44	442.15
	4/13/07	464.59	50-55	25.33	439.26
	7/16/07	464.59	50-55	36.50	428.09
	10/29/07	464.59	50-55	47.90	416.69
	2/1/08	464.59	50-55	33.25	431.34
	4/18/08	464.59	50-55	28.77	435.82
	7/28/08	464.59	50-55	44.76	419.83
	11/18/08	464.59	50-55	51.65	412.94
	2/4/09	464.59	50-55	47.63	416.96
	4/21/09	464.59	50-55	37.00	427.59
	9/24/09	464.59	50-55	39.73	424.86
	3/4/10	464.59	50-55	28.97	435.62
	7/19/10	464.59	50-55	25.40	439.19
	1/19/11	464.59	50-55	24.52	440.07
	4/6/11	464.59	50-55	20.05	444.54
	9/19/11	464.59	50-55	24.50	440.09
	11/4/11	464.59	50-55	24.40	440.19
	2/1/12	464.59	50-55	33.96	430.63
	6/12/12	464.59	50-55	28.65	435.94
	8/28/12	464.59	50-55	31.22	433.37
	3/13/13	464.59	50-55	23.42	441.17
6/21/13	464.59	50-55	26.21	438.38	
8/24/13	464.59	50-55	26.86	437.73	

Table 1
Groundwater Elevation Data
160 Holmes Street, Livermore, California

Monitoring Well ID	Date	Top of Casing Elevation* (feet, msl)	Screen Interval (feet, bgs)	Depth to Groundwater (feet)	Groundwater Elevation (feet, msl)
MW-6	11/14/01	464.13	20-50	33.88	430.25
	5/7/02	464.13	20-50	27.01	437.12
	9/11/02	464.13	20-50	27.03	437.10
	12/11/02	464.13	20-50	28.77	435.36
	3/14/03	464.13	20-50	23.46	440.67
	6/25/03	464.13	20-50	23.08	441.05
	9/16/03	464.13	20-50	25.77	438.36
	12/22/03	464.13	20-50	22.59	441.54
	3/10/04	464.13	20-50	18.65	445.48
	6/15/04	464.13	20-50	23.31	440.82
	9/17/04	464.13	20-50	26.56	437.57
	12/10/04	464.13	20-50	23.09	441.04
	3/2/05	464.13	20-50	18.04	446.09
	5/27/05	464.13	20-50	19.57	444.56
	7/21/05	464.13	20-50	21.60	442.53
	10/10/05	464.13	20-50	22.21	441.92
	1/9/06	464.13	20-50	18.99	445.14
	4/6/06	464.13	20-50	17.00	447.13
	7/27/06	464.13	20-50	23.45	440.68
	10/12/06	464.13	20-50	24.36	439.77
	1/3/07	464.13	20-50	22.03	442.10
	4/13/07	464.13	20-50	24.40	439.73
	7/16/07	464.13	20-50	NM	NC
	10/29/07	464.13	20-50	Dry	NC
	2/1/08	464.13	20-50	33.05	431.08
	4/18/08	464.13	20-50	28.20	435.93
	7/28/08	464.13	20-50	Dry	NC
	11/18/08	464.13	20-50	Dry	NC
	2/4/09	464.13	20-50	Dry	NC
	4/21/09	464.13	20-50	38.71	425.42
	9/24/09	464.13	20-50	38.26	425.87
	3/4/10	464.13	20-50	26.02	438.11
	7/19/10	464.13	20-50	24.65	439.48
	1/19/11	464.13	20-50	24.00	440.13
	4/6/11	464.13	20-50	21.76	442.37
	9/19/11	464.13	20-50	23.76	440.37
	11/4/11	464.13	20-50	23.00	441.13
	2/1/12	464.13	20-50	33.43	430.70
	6/12/12	464.13	20-50	27.62	436.51
	8/28/12	464.13	20-50	30.17	433.96
3/13/13	464.13	20-50	22.72	441.41	
6/21/13	464.13	20-50	25.30	438.83	
8/24/13	464.13	20-50	25.86	438.27	

Table 1
Groundwater Elevation Data
 160 Holmes Street, Livermore, California

Monitoring Well ID	Date	Top of Casing Elevation* (feet, msl)	Screen Interval (feet, bgs)	Depth to Groundwater (feet)	Groundwater Elevation (feet, msl)
MW-7A**	4/6/06	465.32	15-30	16.61	448.71
	7/27/06	465.32	15-30	23.40	441.92
	10/12/06	465.32	15-30	24.50	440.82
	1/3/07	465.32	15-30	21.80	443.52
	4/13/07	465.32	15-30	24.05	441.27
	7/16/07	465.32	15-30	Dry	NC
	10/29/07	465.32	15-30	Dry	NC
	2/1/08	465.32	15-30	Dry	NC
	4/18/08	465.32	15-30	28.16	437.16
	7/28/08	465.32	15-30	Dry	NC
	11/18/08	465.32	15-30	Dry	NC
	2/4/09	465.32	15-30	Dry	NC
	4/21/09	465.32	15-30	Dry	NC
	9/24/09	465.32	15-30	Dry	NC
	3/4/10	465.32	15-30	26.30	439.02
	7/19/10	465.32	15-30	24.78	440.54
	1/19/11	465.32	15-30	23.60	441.72
	4/6/11	465.32	15-30	19.35	445.97
	4/18/11	465.32	15-30	19.59	445.73
	5/9/11	465.32	15-30	21.15	444.17
	6/1/11	465.32	15-30	21.01	444.31
	6/15/11	465.32	15-30	21.45	443.87
	6/30/11	465.32	15-30	21.87	443.45
	9/19/11	465.32	15-30	23.96	441.36
	11/4/11	465.32	15-30	23.45	441.87
	2/1/12	465.32	15-30	Dry	NC
	6/13/12	465.32	15-30	27.93	437.39
	8/28/12	465.32	15-30	Dry	NC
	3/13/13	465.32	15-30	22.86	442.46
	6/21/13	465.32	15-30	25.09	440.23
8/24/13	465.32	15-30	25.00	440.32	
MW-7B**	4/6/06	465.39	45-50	16.85	448.54
	7/27/06	465.39	45-50	23.72	441.67
	10/12/06	465.39	45-50	24.74	440.65
	1/3/07	465.39	45-50	22.18	443.21
	4/13/07	465.39	45-50	24.41	440.98
	7/16/07	465.39	45-50	36.40	428.99
	10/29/07	465.39	45-50	Dry	NC
	2/1/08	465.39	45-50	33.84	431.55
	4/18/08	465.39	45-50	28.52	436.87
	7/28/08	465.39	45-50	44.92	420.47
	11/18/08	465.39	45-50	Dry	NC
	2/4/09	465.39	45-50	46.65	418.74
	4/21/09	465.39	45-50	36.83	428.56
	9/24/09	465.39	45-50	39.26	426.13
	3/4/10	465.39	45-50	28.63	436.76
	7/19/10	465.39	45-50	25.05	440.34
	1/19/11	465.39	45-50	24.15	441.24

Table 1
Groundwater Elevation Data
160 Holmes Street, Livermore, California

Monitoring Well ID	Date	Top of Casing Elevation* (feet, msl)	Screen Interval (feet, bgs)	Depth to Groundwater (feet)	Groundwater Elevation (feet, msl)
MW-7B cont.	4/6/11	465.39	45-50	21.78	443.61
	4/18/11	465.39	45-50	19.75	445.64
	5/9/11	465.39	45-50	20.40	444.99
	6/1/11	465.39	45-50	21.25	444.14
	6/15/11	465.39	45-50	21.45	443.94
	6/30/11	465.39	45-50	21.65	443.74
	9/19/11	465.39	45-50	24.10	441.29
	11/4/11	465.39	45-50	24.10	441.29
	2/2/12	465.39	45-50	33.91	431.48
	6/13/12	465.39	45-50	28.14	437.25
	8/28/12	465.39	45-50	30.67	434.72
	3/13/13	465.39	45-50	23.05	442.34
	6/21/13	465.39	45-50	25.70	439.69
	8/24/13	465.39	45-50	26.26	439.13
	MW-7C**	4/6/06	465.39	65-70	17.18
7/27/06		465.39	65-70	24.15	441.24
10/12/06		465.39	65-70	24.74	440.65
1/3/07		465.39	65-70	22.53	442.86
4/13/07		465.39	65-70	24.73	440.66
7/16/07		465.39	65-70	36.70	428.69
10/29/07		465.39	65-70	48.25	417.14
2/1/08		465.39	65-70	34.00	431.39
4/18/08		465.39	65-70	28.75	436.64
7/28/08		465.39	65-70	45.00	420.39
11/18/08		465.39	65-70	49.62	415.77
2/4/09		465.39	65-70	47.89	417.50
4/21/09		465.39	65-70	36.98	428.41
9/24/09		465.39	65-70	39.49	425.90
3/4/10		465.39	65-70	26.66	438.73
7/19/10		465.39	65-70	25.38	440.01
1/19/11		465.39	65-70	24.50	440.89
4/6/11		465.39	65-70	19.88	445.51
9/19/11		465.39	65-70	23.50	441.89
11/4/11		465.39	65-70	24.40	440.99
2/2/12		465.39	65-70	34.14	431.25
6/13/12		465.39	65-70	28.54	436.85
8/28/12		465.39	65-70	31.07	434.32
3/13/13	465.39	65-70	23.34	442.05	
6/21/13	465.39	65-70	26.00	439.39	
8/24/13	465.39	65-70	26.64	438.75	
MW-8A	7/28/08	NC	16-36	Dry	NC
	11/18/08	NC	16-36	35.40	NC
	2/4/09	NC	16-36	Dry	NC
	4/21/09	NC	16-36	Dry	NC
	9/24/09	NC	16-36	Dry	NC
	3/4/10	NC	16-36	26.33	NC
	7/20/10	NC	16-36	25.00	NC
	1/19/11	NC	16-36	24.30	NC
	4/6/11	NC	16-36	19.22	NC
	9/19/11	NC	16-36	24.05	NC
	11/4/11	NC	16-36	24.10	NC
	2/2/12	NC	16-36	33.99	NC
	6/12/12	NC	16-36	28.01	NC
	8/28/12	NC	16-36	30.53	NC
	3/13/13	NC	16-36	23.09	NC
	6/21/13	NC	16-36	25.60	NC
8/24/13	NC	16-36	26.13	NC	

Table 1
Groundwater Elevation Data
160 Holmes Street, Livermore, California

Monitoring Well ID	Date	Top of Casing Elevation* (feet, msl)	Screen Interval (feet, bgs)	Depth to Groundwater (feet)	Groundwater Elevation (feet, msl)
MW-8B	7/28/08	NC	46-51	44.90	NC
	11/18/08	NC	46-51	49.85	NC
	2/4/09	NC	46-51	47.95	NC
	4/21/09	NC	46-51	38.75	NC
	9/24/09	NC	46-51	38.47	NC
	3/4/10	NC	46-51	28.24	NC
	7/20/10	NC	46-51	24.70	NC
	1/19/11	NC	46-51	24.05	NC
	4/6/11	NC	46-51	19.42	NC
	9/19/11	NC	46-51	23.80	NC
	11/4/11	NC	46-51	23.50	NC
	2/2/12	NC	46-51	33.73	NC
	6/13/12	NC	46-51	27.75	NC
	8/28/12	NC	46-51	30.28	NC
	3/13/13	NC	46-51	22.82	NC
	6/21/13	NC	46-51	25.36	NC
	8/24/13	NC	46-51	25.91	NC
MW-9A	7/28/08	NC	14-36	Dry	NC
	11/18/08	NC	14-36	48.97	NC
	2/4/09	NC	14-36	Dry	NC
	4/21/09	NC	14-36	Dry	NC
	9/24/09	NC	14-36	Dry	NC
	3/4/10	NC	14-36	27.86	NC
	7/20/10	NC	14-36	24.15	NC
	1/19/11	NC	14-36	23.40	NC
	4/6/11	NC	14-36	21.50	NC
	9/19/11	NC	14-36	23.25	NC
	11/4/11	NC	14-36	23.50	NC
	2/1/12	NC	14-36	33.10	NC
	6/12/12	NC	14-36	27.30	NC
	8/28/12	NC	14-36	29.72	NC
	3/13/13	NC	14-36	22.20	NC
	6/21/13	NC	14-36	24.79	NC
	8/24/13	NC	14-36	25.35	NC
MW-9B	7/28/08	NC	47-52	44.05	NC
	11/18/08	NC	47-52	38.28	NC
	2/4/09	NC	47-52	47.03	NC
	4/21/09	NC	47-52	35.94	NC
	9/24/09	NC	47-52	37.93	NC
	3/4/10	NC	47-52	27.68	NC
	7/20/10	NC	47-52	24.30	NC
	1/19/11	NC	47-52	23.55	NC
	4/6/11	NC	47-52	21.21	NC
	9/19/11	NC	47-52	23.12	NC
	11/4/11	NC	47-52	23.35	NC
	2/1/12	NC	47-52	33.13	NC
	6/12/12	NC	47-52	27.19	NC
	8/28/12	NC	47-52	29.82	NC
	3/13/13	NC	47-52	22.29	NC
	6/21/13	NC	47-52	24.86	NC
	8/24/13	NC	47-52	25.42	NC

Table 1
Groundwater Elevation Data
160 Holmes Street, Livermore, California

Monitoring Well ID	Date	Top of Casing Elevation* (feet, msl)	Screen Interval (feet, bgs)	Depth to Groundwater (feet)	Groundwater Elevation (feet, msl)
EX-1**	11/14/01	465.30	30-55	33.41	431.89
	5/7/02	465.30	30-55	27.58	437.72
	9/11/02	465.30	30-55	NM	NC
	12/11/02	465.30	30-55	27.98	437.32
	3/14/03	465.30	30-55	23.02	442.28
	6/25/03	465.30	30-55	22.41	442.89
	9/16/03	465.30	30-55	24.65	440.65
	3/10/04	465.30	30-55	17.99	447.31
	6/15/04	465.30	30-55	22.48	442.82
	9/17/04	465.30	30-55	25.91	439.39
	12/10/04	465.30	30-55	NM	NC
	3/2/05	465.30	30-55	NM	NC
	5/27/05	465.30	30-55	18.68	446.62
	7/21/05	465.30	30-55	21.55	443.75
	10/10/05	465.30	30-55	22.73	442.57
	1/9/06	465.30	30-55	18.05	447.25
	EW-1***	4/6/06	465.45	15-40	15.99
7/27/06		465.45	15-40	23.85	441.60
10/12/06		465.45	15-40	23.51	441.94
1/3/07		465.45	15-40	21.45	444.00
4/13/07		465.45	15-40	23.69	441.76
10/29/07		465.45	15-40	NM	NC
2/1/08		465.45	15-40	NM	NC
4/18/08		465.45	15-40	27.83	437.62
7/28/08		465.45	15-40	NM	NC
11/18/08		465.45	15-40	Dry	NC
2/4/09		465.45	15-40	Dry	NC
4/21/09		465.45	15-40	Dry	NC
9/24/09		465.45	15-40	Dry	NC
3/4/10		465.45	15-40	27.87	NC
7/20/10		465.45	15-40	24.35	441.10
1/19/11		465.45	15-40	23.58	441.87
4/6/11		465.45	15-40	18.85	446.60
4/18/11		465.45	15-40	19.70	445.75
5/9/11		465.45	15-40	19.69	445.76
6/1/11		465.45	15-40	20.52	444.93
6/15/11		465.45	15-40	21.11	444.34
6/30/11		465.45	15-40	21.41	444.04
9/19/11		465.45	15-40	22.35	443.10
11/4/11		465.45	15-40	23.35	442.10
2/2/12		465.45	15-40	33.38	432.07
6/13/12		465.45	15-40	27.38	438.07
8/28/12		465.45	15-40	29.90	435.55
3/13/13	465.45	15-40	22.38	443.07	
6/21/13	465.45	15-40	24.95	440.50	
8/24/13	465.45	15-40	25.52	439.93	
EW-2***	4/6/06	465.99	15-40	16.20	449.79
	7/27/06	465.99	15-40	23.10	442.89
	10/12/06	465.99	15-40	21.48	444.51
	1/3/07	465.99	15-40	21.66	444.33
	4/13/07	465.99	15-40	23.93	442.06
	10/29/07	465.99	15-40	Dry	NC
	2/1/08	465.99	15-40	NM	NC
	4/18/08	465.99	15-40	28.04	437.95
	7/28/08	465.99	15-40	NM	NC
	11/18/08	465.99	15-40	Dry	NC

Table 1
Groundwater Elevation Data
 160 Holmes Street, Livermore, California

Monitoring Well ID	Date	Top of Casing Elevation* (feet, msl)	Screen Interval (feet, bgs)	Depth to Groundwater (feet)	Groundwater Elevation (feet, msl)
EW-2***	2/4/09	465.99	15-40	Dry	NC
cont.	4/21/09	465.99	15-40	Dry	NC
	9/24/09	465.99	15-40	Dry	NC
	3/4/10	465.99	15-40	25.89	NC
	7/20/10	465.99	15-40	24.45	441.54
	1/19/11	465.99	15-40	23.72	442.27
	4/6/11	465.99	15-40	19.00	446.99
	4/18/11	465.99	15-40	19.19	446.80
	5/9/11	465.99	15-40	19.67	446.32
	6/1/11	465.99	15-40	20.71	445.28
	6/15/11	465.99	15-40	21.00	444.99
	6/30/11	465.99	15-40	21.31	444.68
	9/19/11	465.99	15-40	23.55	442.44
	11/4/11	465.99	15-40	23.60	442.39
	2/2/12	465.99	15-40	33.66	432.33
	6/13/12	465.99	15-40	27.64	438.35
	8/28/12	465.99	15-40	NM	NC
	3/13/13	465.99	15-40	22.58	443.41
	6/21/13	465.99	15-40	26.14	439.85
	8/24/13	465.99	15-40	NM	NC
EW-3 ^(a)	11/18/08	NC	25-30	Dry	NC
	2/4/09	NC	25-30	33.80	NC
	4/21/09	NC	25-30	Dry	NC
	9/24/09	NC	25-30	Dry	NC
	3/4/10	NC	25-30	28.02	NC
	7/20/10	NC	25-30	NM	NC
	1/19/11	NC	25-30	23.50	NC
	4/6/11	NC	25-30	18.30	NC
	4/18/11	NC	25-30	19.40	NC
	5/9/11	NC	25-30	19.67	NC
	6/1/11	NC	25-30	20.72	NC
	6/15/11	NC	25-30	20.92	NC
	6/30/11	NC	25-30	21.11	NC
	9/19/11	NC	25-30	23.25	NC
	11/4/11	NC	25-30	23.30	NC
	2/2/12	NC	25-30	28.76	NC
	6/13/12	NC	25-30	27.31	NC
	8/28/12	NC	25-30	28.87	NC
	3/13/13	NC	25-30	22.32	NC
	6/21/13	NC	25-30	23.35	NC
	8/24/13	NC	25-30	24.96	NC
EW-3B ^(b)	3/13/13	NC	24-39	21.73	NC
	6/21/13	NC	24-39	24.12	NC
	8/24/13	NC	24-39	24.99	NC

Notes:

msl: mean sea level

bgs: below ground surface

NA: well not accessible

NC: elevation not calculated

NM: well not measured

* = Well MW-1, 2, and 3 renamed MW-1A, 2A, and 3A respectively

** = Well destroyed on 2/22/06-2/28/06

*** = Well installed on 2/22/06-2/28/06

(a) = Well EW-3 is 35 feet deep with a screen interval from 25 to 30 feet bgs.

(b) = Well EW-3B installed on March 5, 2013 with a screen interval from 24 to 39 feet bgs.

Table 2
Groundwater Analytical Results
160 Holmes Street, Livermore, California

Well ID	Date Collected	Groundwater Elevation (feet above MSL)	Total Petroleum Hydrocarbons (µg/L)		Aromatic Volatile Organic Compounds (µg/L)					Oxygenated Volatile Organics (µg/L)						Lead Scavengers (µg/L)		Hexavalent Chromium (µg/L)	
			Gasoline	Diesel	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE (8021B)	TAME	TBA	DIPE	ETBE	MTBE	Ethanol	Methanol	EDB		1,2-DCA
MW-1A*	8/11/00	NC	170,000	57,000	6,400	7,600	4,200	9,700	320,000	--	--	--	--	--	--	--	--	--	--
	10/19/00	443.09	170,000	17,000	8,400	3,200	2,700	10,000	200,000	--	--	--	--	--	--	--	--	--	--
	2/22/01	442.12	82,000	11,000	5,100	1,000	13,000	8,700	190,000	--	--	--	--	--	--	--	--	--	--
	5/30/01	NC	NS	NS	not sampled - well dry				NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/14/01	NC	NS	NS	not sampled - well dry				NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	5/7/02	NC	NS	NS	not sampled - well dry				NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/11/02	438.87	130,000	--	7,700	1,100	--	1,500	<5000	--	--	--	--	--	--	--	--	--	--
	12/1/02	437.48	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/14/03	442.40	180,000	3,800	7,100	3,200	4,300	6,000	220,000	--	--	--	--	--	--	--	--	--	--
	6/25/03	442.93	71,000	3,100	7,500	4,700	4,800	8,900	210,000	--	--	--	--	--	--	--	--	--	--
	9/16/03	440.12	37,000	3,600	4,600	220	3,600	930	150,000	--	--	--	--	--	--	--	--	--	--
	12/22/03	443.28	44,000	4,000	6,800	1,500	4,000	3,800	180,000	--	--	--	--	--	--	--	--	--	--
	3/10/04	447.58	72,000	3,100	6,000	11,000	3,900	10,000	260,000	--	--	--	--	--	--	--	--	--	--
	6/15/04	442.65	42,000	4,300	5,000	1,800	3,700	6,000	210,000	--	--	--	--	--	--	--	--	--	--
	9/17/04	439.42	24,000	2,900	2,800	<33	2,900	500	83,000	--	--	--	--	--	--	--	--	--	--
	12/10/04	442.85	31,000	2,700	4,600	190	4,400	2,800	200,000	--	--	--	--	--	--	--	--	--	--
	3/2/05	448.08	58,000	2,800	4,000	2,500	4,500	7,800	230,000	--	--	--	--	--	--	--	--	--	--
	5/27/05	446.61	79,000	4,600	4,300	6,200	5,100	13,000	240,000	--	--	--	--	--	--	--	--	--	--
	7/21/05	443.65	80,000	--	4,300	5,300	5,400	14,000	300,000	--	--	--	--	--	--	--	--	--	--
	10/10/05	442.54	58,000	--	4,300	240	5,600	8,300	170,000	--	--	--	--	--	--	--	--	--	--
	1/9/06	446.98	47,000	3,700	3,100	1,100	4,400	5,900	180,000	<2,500	<25,000	<2,500	<2,500	240,000	<250,000	<2,500,000	<2,500	<2,500	--
	4/6/06	449.43	18,000	1,900	1,200	280	2,400	2,200	110,000	<2,500	<25,000	<2,500	<2,500	87,000	<250,000	<2,500,000	<2,500	<2,500	--
	7/27/06	442.61	24,000	2,400	2,100	350	3,400	5,300	130,000	<5000	<50,000	<5000	<5000	160,000	--	--	--	--	--
	10/12/06	441.57	19,000	1,700	1,000	26	2,000	1,000	68,000	<1,200	<12,000	<1,200	<1,200	84,000	<120,000	<1,200,000	--	--	--
	1/3/07	444.03	27,000	2,300	1,300	53	2,500	1,900	120,000	<1,700	<1,7000	<1,700	<1,700	110,000	<170,000	<1,700,000	<1,700	<1,700	--
	4/13/07	441.79	28,000	3,000	1,600	74	3,700	1,800	190,000	<5,000	<50,000	<5,000	<5,000	200,000	<500,000	<5,000,000	<5,000	<5,000	--
	7/16/07	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	10/29/07	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/1/08	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	4/18/08	437.69	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	7/28/08	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/18/08	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/4/09	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	4/21/09	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/24/09	430.03	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/4/10	436.98	1,300	--	140	<5.0	26	6.0	16,000	--	--	--	--	--	--	--	--	--	--
	7/19/10	441.18	400	--	1.2	1.3	<0.5	0.76	880	--	--	--	--	--	--	--	--	--	--
	1/20/11	441.91	150	130	1.4	0.6	<0.5	1.4	300	<250	40,000	<250	<250	330	--	--	<250	<250	--
	4/8/11	442.37	200	180	2.0	1.9	<0.5	4.4	1,300	<120	24,000	<120	<120	2,300	--	--	<120	<120	<0.2
	4/18/11	446.33	140	130	0.56	<0.5	<0.5	4.2	1,500	<50	11,000	<50	<50	1,200	--	--	<0.5	<50	<10

Table 2
Groundwater Analytical Results
 160 Holmes Street, Livermore, California

Well ID	Date Collected	Groundwater Elevation (feet above MSL)	Total Petroleum Hydrocarbons (µg/L)		Aromatic Volatile Organic Compounds (µg/L)					Oxygenated Volatile Organics (µg/L)						Lead Scavengers (µg/L)		Hexavalent Chromium (µg/L)		
			Gasoline	Diesel	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE (8021B)	TAME	TBA	DIPE	ETBE	MTBE	Ethanol	Methanol	EDB		1,2-DCA	
MW-1A* cont.	5/9/11	445.77	<50	<50	<0.5	<0.5	<0.5	<0.5	880	<50	12,000	<50	<50	1,000	--	--	<50	<50	5.6	
	6/1/11	444.93	<50	52	<0.5	<0.5	<0.5	<0.5	350	<50	12,000	<50	<50	480	--	--	<50	<50	1.3	
	6/15/11	444.59	<50	70	<0.5	<0.5	<0.5	<0.5	310	<100	9,000	<100	<100	330	--	--	<100	<100	0.66	
	6/30/11	444.30	<50	54	<0.5	<0.5	<0.5	<0.5	150	<50	6,200	<50	<50	170	--	--	<50	<50	0.54	
	9/20/11	442.12	96	200	<0.5	0.6	<0.5	0.55	140	<120	19,000	<120	<120	150	--	--	<120	<120	--	
	11/8/11	442.03	100	150	1.3	0.99	<0.5	1.1	110	<100	21,000	<100	<100	150	--	--	<100	<100	--	
	2/1/12	NC	NS	NS	not sampled - well dry					NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	6/13/12	438.13	65	300	0.96	0.70	<0.5	<0.5	5.5	<50	10,000	<50	<50	<50	--	--	<0.5	<0.5	--	
	8/28/12	NC	NS	NS	not sampled - well dry					NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/14/13	443.09	<50	<50	1.1	<0.5	<0.5	<0.5	<5.0	<50	5,100	<50	<50	<50	<50	<50	<50	<50	<50	<0.2
	6/25/13	439.51	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<100	6,800	<100	<100	<100	--	--	<100	<100	1.2	
	7/22/13	NC	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<100	17,000	<100	<100	<100	--	--	<100	<100	<2.0	
	8/28/13	439.94	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<100	19,000	<100	<100	<100	<100	--	--	<100	<100	<0.2
MW-1B	3/13/06	446.44	<50	<50	<0.5	<0.5	<0.5	<0.5	8.2	<0.5	<5.0	<0.5	<0.5	7.9	<50	<500	<0.5	<0.5	--	
	4/6/06	449.43	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<5.0	<0.5	<0.5	1.0	<50	<500	<0.5	<0.5	--	
	7/27/06	442.55	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<5.0	<0.5	<0.5	<0.5	--	--	--	--	--	
	10/12/06	441.51	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<5.0	<0.5	<0.5	<0.5	<50	<500	--	--	--	
	1/3/07	443.98	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<5.0	<0.5	<0.5	<0.5	<50	<500	<0.5	<0.5	--	
	4/13/07	441.72	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<5.0	<0.5	<0.5	<0.5	<50	<500	<0.5	<0.5	--	
	7/16/07	429.45	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<5.0	<0.5	<0.5	<0.5	--	--	--	--	--	
	10/29/07	417.70	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<5.0	<0.5	<0.5	<0.5	<50	<500	<0.5	<0.5	--	
	2/1/08	431.12	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<2.0	<0.5	<0.5	<0.5	<50	<500	<0.5	<0.5	--	
	4/18/08	437.67	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<2.0	<0.5	<0.5	<0.5	<50	<500	<0.5	<0.5	--	
	7/29/08	420.99	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<2.0	<0.5	<0.5	<0.5	<50	<500	<0.5	<0.5	--	
	11/18/08	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	--
	2/4/09	418.19	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--	--
	4/21/09	427.92	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--	--
	9/24/09	427.26	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	1.1	--	--	--	--	--	--
	3/4/10	437.61	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--	--
	7/19/10	NC	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--	--
	1/20/11	441.92	<50	130	<0.5	<0.5	<0.5	<0.5	<5.0	<250	40,000	<250	<250	330	--	--	<250	<250	--	
	4/8/11	446.62	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<2.0	<0.5	<0.5	<0.5	--	--	<0.5	<0.5	2.5	
	4/18/11	446.42	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<2.0	<0.5	<0.5	<0.5	--	--	<0.5	<0.5	2.4	
	5/9/11	445.91	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<2.0	<0.5	<0.5	<0.5	--	--	<0.5	<0.5	2.4	
	6/1/11	444.92	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<2.0	<0.5	<0.5	<0.5	--	--	<0.5	<0.5	1.4	
	6/15/11	444.58	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<2.0	<0.5	<0.5	<0.5	--	--	<0.5	<0.5	1.8	
	6/30/11	444.28	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<2.0	<0.5	<0.5	<0.5	--	--	<0.5	<0.5	2.1	
9/20/11	442.10	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<2.0	<0.5	<0.5	<0.5	--	--	<0.5	<0.5	--		
11/8/11	442.07	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<2.0	<0.5	<0.5	<0.5	--	--	<0.5	<0.5	--		
2/2/12	432.02	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<2.0	<0.5	<0.5	<0.5	--	--	<0.5	<0.5	--		
6/13/12	438.03	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<2.0	<0.5	<0.5	<0.5	--	--	<0.5	<0.5	--		
8/28/12	435.51	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2.0	<0.5	<0.5	<0.5	--	--	<0.5	<0.5	1.6		

Table 2
Groundwater Analytical Results
160 Holmes Street, Livermore, California

Well ID	Date Collected	Groundwater Elevation (feet above MSL)	Total Petroleum Hydrocarbons (µg/L)		Aromatic Volatile Organic Compounds (µg/L)					Oxygenated Volatile Organics (µg/L)						Lead Scavengers (µg/L)		Hexavalent Chromium (µg/L)	
			Gasoline	Diesel	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE (8021B)	TAME	TBA	DIPE	ETBE	MTBE	Ethanol	Methanol	EDB		1,2-DCA
MW-1B cont.	3/14/13	443.06	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<2.0	<0.5	<0.5	<0.5	--	--	<0.5	<0.5	1.6
	6/21/13	441.47	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<2.0	<0.5	<0.5	<0.5	--	--	<0.5	<0.5	1.9
	7/22/13	NC	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	6.8	<0.5	<0.5	<0.5	--	--	<0.5	<0.5	1.7
	8/24/13	439.91	<50	110	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<2.0	<0.5	<0.5	<0.5	--	--	<0.5	<0.5	1.7
MW- 2A*	8/11/00	NC	4,500	1,900	220	52	160	170	3,000	--	--	--	--	--	--	--	--	--	--
	10/19/00	443.14	3,400	1,300	150	21	100	70	1,900	--	--	--	--	--	--	--	--	--	--
	2/22/01	442.07	7,600	880	25	<10	69	25	2,200	--	--	--	--	--	--	--	--	--	--
	5/30/01	NC	NS	NS	not sampled - well dry				NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/14/01	NC	NS	NS	not sampled - well dry				NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	5/7/02	438.24	400	86	5.4	<0.5	1.9	2.3	230	--	--	--	--	--	--	--	--	--	--
	9/11/02	438.98	260	--	1.3	<0.5	0.57	0.77	200	--	--	--	--	--	--	--	--	--	--
	12/1/02	437.38	250	120	7.9	1.6	13	9.9	180	--	--	--	--	--	--	--	--	--	--
	3/14/03	442.53	830	110	56	<0.5	<0.5	<1.0	1,200	--	--	--	--	--	--	--	--	--	--
	6/25/03	442.97	260	180	0.92	2.9	3.1	8.1	2,000	--	--	--	--	--	--	--	--	--	--
	9/16/03	440.24	420	260	3.6	3.4	5.2	2.4	1,300	--	--	--	--	--	--	--	--	--	--
	12/22/03	443.36	240	120	0.82	3.1	7.8	3.9	1,400	--	--	--	--	--	--	--	--	--	--
	3/10/04	447.63	280	210	9.4	4.2	14	11	1,400	--	--	--	--	--	--	--	--	--	--
	6/15/04	442.76	150	150	2.1	2.4	2.2	1.3	1,500	--	--	--	--	--	--	--	--	--	--
	9/17/04	439.50	61	70	<0.5	1.0	<0.5	<0.5	730	--	--	--	--	--	--	--	--	--	--
	12/10/04	442.94	84	110	<0.5	1.2	<0.5	1.5	1,300	--	--	--	--	--	--	--	--	--	--
	3/2/05	448.19	63	91	0.55	<0.5	0.63	0.51	1,000	--	--	--	--	--	--	--	--	--	--
	5/27/05	446.65	270	59	14	3.9	19	6.8	1,100	--	--	--	--	--	--	--	--	--	--
	7/21/05	444.48	280	--	8.6	2.5	17	2.5	1,500	--	--	--	--	--	--	--	--	--	--
	10/10/05	442.64	<50	--	<.5	<.5	<.5	<.5	680	--	--	--	--	--	--	--	--	--	--
	1/9/06	447.27	1,700	890	4.4	1.3	120	18	530	<10	330	<10	<10	590	<1,000	<10,000	<10	<10	--
	4/7/06	449.47	110	160	0.61	0.8	4.1	<0.5	270	<5.0	660	<5.0	<5.0	240	<500	<5,000	<5.0	<5.0	--
	7/27/06	442.67	<50	120	<0.5	0.84	<0.5	<0.5	87	<5.0	870	<5.0	<5.0	110	--	--	--	--	--
10/12/06	441.59	<50	70	<0.5	<0.5	<0.5	<0.5	29	<5.0	480	<5.0	<5.0	30	<500	<5,000	--	--	--	
1/3/07	444.04	55	60	0.57	<0.5	<0.5	<0.5	8.5	<2.5	590	<2.5	<2.5	7.8	<250	<2,500	<2.5	<2.5	--	
4/13/07	441.78	86	130	<0.5	0.6	<0.5	<0.5	16	<5.0	740	<5.0	<5.0	16	<500	<5,000	<5.0	<5.0	--	
7/16/07	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
10/29/07	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
2/1/08	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
4/18/08	437.68	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
7/28/08	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
11/18/08	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
2/4/09	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
4/21/09	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
9/24/09	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
3/4/10	439.82	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--	
7/20/10	439.09	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--	

Table 2
Groundwater Analytical Results
160 Holmes Street, Livermore, California

Well ID	Date Collected	Groundwater Elevation (feet above MSL)	Total Petroleum Hydrocarbons (µg/L)		Aromatic Volatile Organic Compounds (µg/L)					Oxygenated Volatile Organics (µg/L)						Lead Scavengers (µg/L)		Hexavalent Chromium (µg/L)		
			Gasoline	Diesel	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE (8021B)	TAME	TBA	DIPE	ETBE	MTBE	Ethanol	Methanol	EDB		1,2-DCA	
MW- 2A* cont.	1/21/11	439.64	<50	<50	<0.5	<0.5	<0.5	<0.5	2.8	<5.0	<5.0	<5.0	<5.0	2.8	--	--	<5.0	<5.0	--	
	4/8/11	446.64	<50	<50	<0.5	0.77	<0.5	6.2	<5.0	<0.5	15	<0.5	<0.5	3.3	--	--	<0.5	<0.5	<0.2	
	4/18/11	NC	<50	<50	<0.5	<0.5	<0.5	2.6	<5.0	24	24	<0.5	<0.5	2.7	--	--	<0.5	<0.5	<0.2	
	5/9/11	NC	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	26	<0.5	<0.5	3.7	--	--	<0.5	<0.5	<0.2	
	6/1/11	NC	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	13	<0.5	<0.5	2.8	--	--	<0.5	<0.5	<0.2	
	6/15/11	NC	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	19	<0.5	<0.5	2.8	--	--	<0.5	<0.5	<0.2	
	6/30/11	NC	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	13	<0.5	<0.5	3.0	--	--	<0.5	<0.5	<0.2	
	9/20/11	442.49	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	7.9	<0.5	<0.5	2.8	--	--	<0.5	<0.5	--	
	11/8/11	442.17	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<2.0	<0.5	<0.5	2.3	--	--	<0.5	<0.5	--	
	2/1/12	NC	NS	NS	not sampled - well dry					NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	6/12/12	438.15	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	5.4	<0.5	<0.5	1.1	--	--	<0.5	<0.5	--	
	8/30/12	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/13/13	443.13	<50	--	<0.5	<0.5	<0.5	0.70	<5.0	<0.5	<2.0	<0.5	<0.5	<0.5	--	--	--	--	--	
	6/25/13	440.61	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	7/22/13	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8/24/13	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	MW- 3A*	8/11/00	NC	59	260	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--
10/19/00		443.39	<50	<65	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--	
2/22/01		442.33	<50	100	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--	
5/30/01		NC	NS	NS	not sampled - well dry					NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
11/14/01		NC	NS	NS	not sampled - well dry					NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
5/7/02		NC	NS	NS	not sampled - well dry					NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
9/11/02		439.23	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--	
12/1/02		437.66	NS	NS	not sampled - well dry					NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
3/14/03		442.80	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--	
6/25/03		443.25	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--	
9/16/03		440.51	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--	
12/22/03		443.47	<50	69	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--	
3/10/04		447.96	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--	
6/15/04		443.02	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--	
9/17/04		439.75	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--	
12/10/04		443.19	<50	<50	<0.5	<0.5	<0.5	<0.5	7.6	--	--	--	--	--	--	--	--	--	--	
3/2/05		448.51	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--	
5/27/05		446.95	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--	
7/21/05		444.74	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--	
10/10/05		442.90	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--	
1/9/06		447.60	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<5.0	<0.5	<5.0	<0.5	<50	<500	<0.5	<0.5	--	
4/7/06		449.82	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<5.0	<0.5	<0.5	<0.5	<50	<500	<0.5	<0.5	--	
7/27/06		442.94	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<5.0	<0.5	<0.5	<0.5	--	--	--	--	--	
10/12/06	441.85	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<5.0	<0.5	<0.5	<0.5	<50	<500	--	--	--		
1/3/07	444.32	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<5.0	<0.5	<0.5	<0.5	<50	<500	<0.5	<0.5	--		
4/13/07	442.06	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<5.0	<0.5	<0.5	<0.5	<50	<500	<0.5	<0.5	--		

Table 2
Groundwater Analytical Results
160 Holmes Street, Livermore, California

Well ID	Date Collected	Groundwater Elevation (feet above MSL)	Total Petroleum Hydrocarbons (µg/L)		Aromatic Volatile Organic Compounds (µg/L)					Oxygenated Volatile Organics (µg/L)						Lead Scavengers (µg/L)		Hexavalent Chromium (µg/L)	
			Gasoline	Diesel	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE (8021B)	TAME	TBA	DIPE	ETBE	MTBE	Ethanol	Methanol	EDB		1,2-DCA
MW-3A cont.	7/16/07	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	10/29/07	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/1/08	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	4/18/08	437.98	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	7/28/08	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/18/08	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/4/09	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	4/21/09	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/24/09	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/4/10	437.89	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--
	7/19/20	439.29	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--
	1/20/11	442.21	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--
	4/8/11	446.94	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--
	9/20/11	442.45	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--
	11/8/11	442.25	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--
	2/1/12	NC	NS	NS	not sampled - well dry					NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	6/12/12	438.38	<50	NS	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--
	8/28/12	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/13/13	443.38	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--
	6/25/13	440.86	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7/22/13	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
8/24/13	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
MW-4**	11/14/01	431.31	510	90	4.0	<0.5	<0.5	<0.5	14	--	--	--	--	--	--	--	--	--	
	5/7/02	438.40	150	<50	3.5	0.5	<0.5	<0.5	48	--	--	--	--	--	--	--	--	--	
	9/11/02	438.49	<50	--	<0.5	<0.5	<0.5	<0.5	15	--	--	--	--	--	--	--	--	--	
	12/1/02	436.76	<50	<50	<0.5	<0.5	<0.5	<0.5	24	--	--	--	--	--	--	--	--	--	
	3/14/03	442.01	<50	<50	<0.5	<0.5	<0.5	<0.5	<1.0	--	--	--	--	--	--	--	--	--	
	6/25/03	442.43	<50	<50	<0.5	<0.5	<0.5	<0.5	<1.0	--	--	--	--	--	--	--	--	--	
	9/16/03	439.76	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	
	12/22/03	442.73	<50	69	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	
	3/10/04	446.95	<50	<50	<0.5	<0.5	<0.5	<0.5	37	--	--	--	--	--	--	--	--	--	
	6/15/04	442.20	<50	<50	<0.5	<0.5	<0.5	<0.5	7.4	--	--	--	--	--	--	--	--	--	
	9/17/04	439.03	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	
	12/10/04	442.42	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	
	3/2/05	447.55	<50	<50	<0.5	<0.5	<0.5	<0.5	14	--	--	--	--	--	--	--	--	--	
	5/27/05	446.01	<50	<50	<0.5	<0.5	<0.5	<0.5	9.6	--	--	--	--	--	--	--	--	--	
	7/21/05	443.90	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	
	10/10/05	442.30	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	
1/9/06	446.61	<50	<50	<0.5	<0.5	<0.5	<0.5	0.86	<0.5	<5.0	<0.5	<5.0	0.86	<50	<500	<5.0	<5.0	--	

Table 2
Groundwater Analytical Results
160 Holmes Street, Livermore, California

Well ID	Date Collected	Groundwater Elevation (feet above MSL)	Total Petroleum Hydrocarbons (µg/L)		Aromatic Volatile Organic Compounds (µg/L)					Oxygenated Volatile Organics (µg/L)						Lead Scavengers (µg/L)		Hexavalent Chromium (µg/L)		
			Gasoline	Diesel	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE (8021B)	TAME	TBA	DIPE	ETBE	MTBE	Ethanol	Methanol	EDB		1,2-DCA	
MW-4A	3/13/06	445.87	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<5.0	<0.5	<0.5	0.70	<50	<500	<0.5	<0.5	--	
	4/7/06	448.77	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<5.0	<0.5	<0.5	1.1	<50	<500	<0.5	<0.5	--	
	7/28/06	442.09	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<5.0	<0.5	<0.5	3.0	--	--	--	--	--	
	10/13/06	441.06	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<5.0	<0.5	<0.5	2.0	<50	<500	--	--	--	
	1/4/07	443.44	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<5.0	<0.5	<0.5	0.79	<50	<500	<0.5	<0.5	--	
	4/16/07	441.18	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<5.0	<0.5	<0.5	0.51	<50	<500	<0.5	<0.5	--	
	7/16/07	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	10/29/07	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/1/08	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	4/18/08	437.05	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	7/28/08	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/18/08	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/4/09	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	4/21/09	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/24/09	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/4/10	439.30	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--	--
	7/20/10	440.71	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--	--
	1/20/11	441.32	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--	--
	4/7/11	436.16	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--	--
	9/19/11	441.53	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--	--
	11/7/11	441.56	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--	--
	2/1/12	NC	NS	NS	not sampled - well dry					NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	6/12/12	437.69	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--	--
	8/28/12	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/13/13	442.58	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--	--
6/25/13	440.08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
7/22/13	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
8/24/13	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
MW-5**	11/14/01	429.71	<50	<66	<0.5	<0.5	<0.5	<0.5	8.2	--	--	--	--	--	--	--	--	--	--	
	5/7/02	436.75	140	<50	<0.5	<0.5	<0.5	<0.5	110	--	--	--	--	--	--	--	--	--	--	
	9/11/02	436.66	<50	--	<0.5	<0.5	<0.5	<0.5	6.3	--	--	--	--	--	--	--	--	--	--	
	12/1/02	435.15	73	<50	<0.5	<0.5	<0.5	<0.5	160	--	--	--	--	--	--	--	--	--	--	
	3/14/03	440.39	110	<50	<0.5	<0.5	<0.5	<0.5	170	--	--	--	--	--	--	--	--	--	--	
	6/25/03	440.64	<50	<50	<0.5	<0.5	<0.5	<0.5	89	--	--	--	--	--	--	--	--	--	--	
	9/16/03	437.82	630	<50	<0.5	3.50	<0.5	2.6	1,500	--	--	--	--	--	--	--	--	--	--	
	12/22/03	440.97	<0.5	<50	<0.5	<0.5	<0.5	<0.5	630	--	--	--	--	--	--	--	--	--	--	
	3/10/04	445.43	57	<50	<0.5	<0.5	<0.5	<0.5	1,100	--	--	--	--	--	--	--	--	--	--	
	6/15/04	440.45	<50	<50	<0.5	<0.5	<0.5	<0.5	750	--	--	--	--	--	--	--	--	--	--	
	9/17/04	436.97	<50	<50	<0.5	<0.5	<0.5	<0.5	780	--	--	--	--	--	--	--	--	--	--	
12/10/04	440.72	<50	<50	<0.5	<0.5	<0.5	<0.5	120	--	--	--	--	--	--	--	--	--	--		

Table 2
Groundwater Analytical Results
 160 Holmes Street, Livermore, California

Well ID	Date Collected	Groundwater Elevation (feet above MSL)	Total Petroleum Hydrocarbons (µg/L)		Aromatic Volatile Organic Compounds (µg/L)					Oxygenated Volatile Organics (µg/L)						Lead Scavengers (µg/L)		Hexavalent Chromium (µg/L)		
			Gasoline	Diesel	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE (8021B)	TAME	TBA	DIPE	ETBE	MTBE	Ethanol	Methanol	EDB		1,2-DCA	
MW-5** cont.	3/2/05	446.09	<50	<50	<0.5	<0.5	<0.5	<0.5	320	--	--	--	--	--	--	--	--	--	--	
	5/27/05	444.50	<50	<50	<0.5	<0.5	<0.5	<0.5	120	--	--	--	--	--	--	--	--	--	--	
	7/21/05	442.10	<50	--	<0.5	<0.5	<0.5	<0.5	97	--	--	--	--	--	--	--	--	--	--	
	10/10/05	441.30	<50	--	<0.5	<0.5	<0.5	<0.5	41	--	--	--	--	--	--	--	--	--	--	
	1/9/06	445.12	<50	<50	<0.5	<0.5	<0.5	<0.5	37	<0.5	<5.0	<0.5	<5.0	<5.0	<50	<500	<0.5	<0.5	--	
MW-5A	3/13/06	444.48	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<5.0	<0.5	<0.5	<0.5	<50	<500	<0.5	<0.5	--	
	4/7/06	447.29	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<5.0	<0.5	<0.5	<0.5	<50	<500	<0.5	<0.5	--	
	7/28/06	440.24	<50	62	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<5.0	<0.5	<0.5	<0.5	--	--	--	--	--	
	10/13/06	439.06	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	6.3	<0.5	<0.5	0.61	<50	<500	--	--	--	
	1/4/07	442.11	<50	320	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<5.0	<0.5	<0.5	<0.5	<50	<500	<0.5	<0.5	--	
	4/16/07	439.87	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<5.0	<0.5	<0.5	<0.5	<50	<500	<0.5	<0.5	--	
	7/16/07	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	10/29/07	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/1/08	430.61	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<2.0	<0.5	<0.5	1.3	<50	<500	<0.5	<0.5	--	
	4/18/08	436.51	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	7/28/08	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/18/08	464.64	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/4/09	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	4/21/09	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/24/09	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/4/10	435.87	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--	--
	7/20/10	440.07	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--	--
	1/19/11	440.12	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--	--
	4/7/11	436.16	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--	--
	9/19/11	440.02	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--	--
	11/7/11	440.14	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--	--
	2/1/12	NC	NS	NS	not sampled - well dry					NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	6/12/12	436.25	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<2.0	<0.5	<0.5	<0.5	--	--	--	--	--	--
8/29/12	433.54	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<2.0	<0.5	<0.5	<0.5	--	--	--	--	--	--	
3/13/13	441.26	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--	--	
6/25/13	438.49	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--	--	
7/22/13	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
8/24/13	431.34	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--	--	

Table 2
Groundwater Analytical Results
160 Holmes Street, Livermore, California

Well ID	Date Collected	Groundwater Elevation (feet above MSL)	Total Petroleum Hydrocarbons (µg/L)		Aromatic Volatile Organic Compounds (µg/L)					Oxygenated Volatile Organics (µg/L)						Lead Scavengers (µg/L)		Hexavalent Chromium (µg/L)		
			Gasoline	Diesel	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE (8021B)	TAME	TBA	DIPE	ETBE	MTBE	Ethanol	Methanol	EDB		1,2-DCA	
MW-5B	3/13/06	444.46	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<5.0	<0.5	<0.5	0.69	<50	<500	<0.5	<0.5	--	
	4/7/06	447.15	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<5.0	<0.5	<0.5	0.98	<50	<500	<0.5	<0.5	--	
	7/28/06	440.50	<50	<50	<0.5	<0.5	<0.5	<0.5	6.8	<0.5	6.3	<0.5	<0.5	0.61	--	--	--	--	--	
	10/13/06	439.42	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<5.0	<0.5	<0.5	3.6	<50	<500	--	--	--	
	1/4/07	442.15	<50	89	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<5.0	<0.5	<0.5	1.3	<50	<500	<0.5	<0.5	--	
	4/16/07	439.26	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<5.0	<0.5	<0.5	1.5	<50	<500	<0.5	<0.5	--	
	7/17/07	428.09	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<5.0	<0.5	<0.5	1.4	--	--	--	--	--	
	10/29/07	416.69	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<5.0	<0.5	<0.5	<0.5	<50	<500	<0.5	<0.5	--	
	2/1/08	431.34	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<2.0	<0.5	<0.5	1.9	<50	<500	<0.5	<0.5	--	
	4/18/08	435.82	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<2.0	<0.5	<0.5	1.5	<50	<500	<0.5	<0.5	--	
	7/29/08	419.83	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<2.0	<0.5	<0.5	<0.5	<50	<500	<0.5	<0.5	--	
	11/18/08	412.94	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<2.0	<0.5	<0.5	1.2	<50	<500	<0.5	<0.5	--	
	2/4/09	416.96	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--	--
	4/22/09	427.59	<50	--	<0.5	<0.5	<0.5	<0.5	48	--	--	--	--	--	--	--	--	--	--	--
	9/24/09	424.86	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<2.0	<0.5	<0.5	1.3	<50	<500	<0.5	<0.5	--	
	3/4/10	435.62	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--	--
	7/19/10	439.19	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--	--
	1/19/11	440.07	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--	--
	4/6/11	444.66	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--	--
	9/19/11	440.09	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--	--
	11/7/11	440.19	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--	--
	2/1/12	430.63	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--	--
	6/12/12	435.94	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<2.0	<0.5	<0.5	<0.5	--	--	--	--	--	--
	8/29/12	433.37	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<2.0	<0.5	<0.5	<0.5	--	--	--	--	--	--
	3/13/13	441.17	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--	--
	6/25/13	438.38	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--	--
7/22/13	NC		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
8/26/13		445.48	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--	

Table 2
Groundwater Analytical Results
 160 Holmes Street, Livermore, California

Well ID	Date Collected	Groundwater Elevation (feet above MSL)	Total Petroleum Hydrocarbons (µg/L)		Aromatic Volatile Organic Compounds (µg/L)					Oxygenated Volatile Organics (µg/L)						Lead Scavengers (µg/L)		Hexavalent Chromium (µg/L)	
			Gasoline	Diesel	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE (8021B)	TAME	TBA	DIPE	ETBE	MTBE	Ethanol	Methanol	EDB		1,2-DCA
MW-6	11/14/01	430.25	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--
	5/7/02	437.12	<50	<67	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--
	9/11/02	437.10	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--
	12/1/02	435.36	<50	<50	<0.5	<0.5	<0.5	<0.5	<1.0	--	--	--	--	--	--	--	--	--	--
	3/14/03	440.67	<50	<50	<0.5	<0.5	<0.5	<1.0	<1.0	--	--	--	--	--	--	--	--	--	--
	6/25/03	441.05	<50	<50	<0.5	<0.5	<0.5	<1.0	<1.0	--	--	--	--	--	--	--	--	--	--
	9/16/03	438.36	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--
	12/22/03	441.54	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--
	3/10/04	445.48	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--
	6/15/04	440.82	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--
	9/17/04	437.57	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--
	12/10/04	441.04	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--
	3/2/05	446.09	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--
	5/27/05	444.56	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--
	7/21/05	442.53	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--
	10/10/05	441.92	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--
	1/9/06	445.14	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<5.0	0.86	<50	<500	<0.5	<0.5	--
	4/6/06	447.13	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<5.0	<0.5	<5.0	<0.5	<50	<500	<0.5	<0.5	--
	7/28/06	440.68	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<5.0	<0.5	<0.5	<0.5	--	--	--	--	--
	10/13/06	439.77	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<5.0	<0.5	<0.5	<0.5	<50	<500	--	--	--
	1/4/07	442.10	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<5.0	<0.5	<0.5	<0.5	<50	<500	<0.5	<0.5	--
	4/16/07	439.73	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<5.0	<0.5	<0.5	<0.5	<50	<500	<0.5	<0.5	--
	7/16/07	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	10/29/07	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/1/08	431.08	<50	<50	<0.5	<0.5	<0.5	0.91	<5.0	<0.5	<2.0	<0.5	<0.5	<0.5	<50	<500	<0.5	<0.5	--
	4/18/08	435.93	<50	<50	<0.5	<0.5	<0.5	0.91	<5.0	<0.5	<2.0	<0.5	<0.5	<0.5	<50	<500	<0.5	<0.5	--
	7/28/08	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/18/08	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/4/09	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	4/22/09	425.42	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--
	9/24/09	425.87	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<2.0	<0.5	<0.5	<0.5	<50	<500	<0.5	<0.5	--
	3/4/10	438.11	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--
	7/19/20	439.48	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--
	1/19/11	440.13	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--
	4/6/11	442.37	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--
	9/19/11	440.37	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--
	11/7/11	441.13	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--
	2/1/12	430.70	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--
	6/12/12	436.51	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<2.0	<0.5	<0.5	<0.5	--	--	--	--	--
	8/29/12	433.96	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<2.0	<0.5	<0.5	<0.5	--	--	--	--	--

Table 2
Groundwater Analytical Results
160 Holmes Street, Livermore, California

Well ID	Date Collected	Groundwater Elevation (feet above MSL)	Total Petroleum Hydrocarbons (µg/L)		Aromatic Volatile Organic Compounds (µg/L)					Oxygenated Volatile Organics (µg/L)						Lead Scavengers (µg/L)		Hexavalent Chromium (µg/L)		
			Gasoline	Diesel	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE (8021B)	TAME	TBA	DIPE	ETBE	MTBE	Ethanol	Methanol	EDB		1,2-DCA	
MW-6 cont.	3/13/13	441.41	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--	
	6/25/13	438.83	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--	
	7/22/13	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	8/26/13	NC	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--	
MW-7A	3/13/06	445.85	6,200	1,800	140	21	200	560	6,900	<100	4,400	<100	<100	6,300	<10,000	<100,000	<100	<100	--	
	4/7/06	448.71	5,300	1,700	130	26	330	420	5,900	<100	7,500	<100	<100	6,600	<10,000	<100,000	<100	<100	--	
	7/28/06	441.92	2,200	470	28	18	60	0.85	240	<25	4,700	<25	<25	240	--	--	--	--	--	
	10/12/06	440.82	6,500	2,400	83	38	300	160	980	<17	4,700	<10	<17	1200	<1,700	<17,000	--	--	--	
	*** 11/21/06	NC	1,400	--	25	17	65	<0.5	45	<10	1,400	<10	<10	42	<1,000	<10,000	<10	<10	--	
	1/4/07	443.52	1,000	440	12	18	48	8.3	75	<5.0	1,100	<5.0	<5.0	73	<500	<5,000	<5.0	<5.0	--	
	4/16/07	441.27	520	470	17	5.6	2.6	0.88	140	<12	2,500	<12	<12	170	<1,200	<12,000	<12	<12	--	
	7/16/07	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	10/29/07	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/1/08	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	4/18/08	437.16	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	7/28/08	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/18/08	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/4/09	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	4/21/09	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/24/09	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/4/10	439.02	83	--	<0.5	0.81	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--	--
	7/19/10	440.54	680	--	<0.5	10	4.9	4.5	<5.0	--	--	--	--	--	--	--	--	--	--	--
	1/20/11	441.72	580	310	<0.5	7.3	7.2	1.5	<5.0	<2.5	490	<2.5	<2.5	5.8	--	--	<2.5	<2.5	--	
	4/11/11	445.97	140	<50	<0.5	1.7	<0.5	<0.5	<5.0	<2.5	540	<2.5	<2.5	5.8	--	--	<2.5	<2.5	<0.2	
	4/18/11	445.73	91	90	<0.5	0.94	<0.5	<0.5	8.5	400	400	<2.5	<2.5	5.8	--	--	<2.5	<2.5	<0.2	
	5/9/11	444.17	<50	69	<0.5	<0.5	<0.5	<0.5	<5.0	<1.7	350	<1.7	<1.7	5.9	--	--	<1.7	<1.7	<0.2	
	6/1/11	444.31	58	77	<0.5	0.76	0.79	0.97	5.2	<1.7	250	<1.7	<1.7	5.5	--	--	<1.7	<1.7	<0.2	
	6/15/11	443.87	<50	80	<0.5	<0.5	<0.5	<0.5	<5.0	<1.0	190	<1.0	<1.0	3.8	--	--	<1.0	<1.0	<0.2	
	6/30/11	443.45	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	81	<0.5	<0.5	2.5	--	--	<0.5	<0.5	<0.2	
	9/19/11	441.36	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	4.4	<0.5	<0.5	<0.5	--	--	<0.5	<0.5	--	
	11/7/11	441.87	<50	<50	<0.5	0.64	<0.5	<0.5	<5.0	<0.5	3.3	<0.5	<0.5	0.67	--	--	<0.5	<0.5	--	
	2/1/12	NC	NS	NS	not sampled - well dry					NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	6/13/12	437.39	390	1,200	<0.5	9.9	<0.5	<0.5	<5.0	<0.5	4.6	<0.5	<0.5	<0.5	--	--	<0.5	<0.5	--	
	8/29/12	NC	NS	NS	not sampled - well dry					NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	3/14/13	442.46	79	130	<0.5	1.3	<0.5	<0.5	<5.0	<0.5	130	<0.5	<0.5	0.97	--	--	<0.5	<0.5	--	
6/25/13	440.23	200	72	<0.5	7.2	<0.5	<0.5	0.66	<0.5	25	<0.5	<0.5	0.97	--	--	<0.5	<0.5	<0.2		
7/22/13	NC	<50	<50	<0.5	0.96	<0.5	<0.5	<5.0	<0.5	7.9	<0.5	<0.5	<0.5	--	--	<0.5	<0.5	<0.2		
8/26/13	420.47	270	100	<0.5	5.5	3.8	<0.5	<5.0	<0.5	32	<0.5	<0.5	1.1	--	--	<0.5	<0.5	<0.2		

Table 2
Groundwater Analytical Results
 160 Holmes Street, Livermore, California

Well ID	Date Collected	Groundwater Elevation (feet above MSL)	Total Petroleum Hydrocarbons (µg/L)		Aromatic Volatile Organic Compounds (µg/L)					Oxygenated Volatile Organics (µg/L)						Lead Scavengers (µg/L)		Hexavalent Chromium (µg/L)	
			Gasoline	Diesel	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE (8021B)	TAME	TBA	DIPE	ETBE	MTBE	Ethanol	Methanol	EDB		1,2-DCA
MW-7B	3/13/06	445.64	230	<50	1.8	4.7	<0.5	2.2	1,500	<50	7,300	<50	<50	1,300	<5,000	<50,000	<50	<50	--
	4/7/06	448.54	81	<50	1.9	1.6	1.1	0.58	1,000	<50	9,200	<50	<50	930	<5,000	<50,000	<50	<50	--
	7/28/06	441.67	150	<50	<0.5	1.9	<0.5	<0.5	1,500	<50	16,000	<50	<50	1,900	--	--	--	--	--
	10/12/06	440.65	110	<50	<0.5	1.3	<0.5	<0.5	900	<17	15,000	<17	<17	860	<1700	<17,000	--	--	--
***	11/21/06	NC	61	--	<0.5	0.76	<0.5	<0.5	740	<50	10,000	<50	<50	680	<5,000	<50,000	<50	<50	--
	1/4/07	443.21	91	<50	<0.5	2.1	<0.5	<0.5	200	<50	11,000	<50	<50	180	<5,000	<50,000	<50	<50	--
	4/16/07	440.98	94	<50	<0.5	2.6	<0.5	<0.5	35	<50	10,000	<50	<50	<50	<5,000	<50,000	<50	<50	--
	7/17/07	428.99	<50	<50	0.61	0.63	<0.5	<0.5	13	<17	4,000	<17	<17	<17	--	--	--	--	--
	10/29/07	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/1/08	431.55	420	<50	0.77	17	<0.5	0.97	45	<25	4,000	<25	<25	49	<2,500	<25,000	<25	<25	--
	4/18/08	436.87	650	100	3.4	15	8.3	<0.5	150	<25	3,800	<25	<25	140	<2,500	<25,000	<25	<25	--
	7/28/08	420.47	<50	<50	<0.5	0.56	<0.5	<0.5	17	<5.0	760	<5.0	<5.0	22	<500	<5,000	<5.0	<5.0	--
	11/18/08	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/4/09	418.74	620	--	<0.5	23	<0.5	2.7	<5.0	--	--	--	--	--	--	--	--	--	--
	4/21/09	428.56	170	--	2.1	5.8	<0.5	0.78	190	--	--	--	--	--	--	--	--	--	--
	9/24/09	426.13	<50	--	<0.5	1.8	<0.5	<0.5	210	<5.0	470	<5.0	<5.0	220	<500	<5,000	<5.0	<5.0	--
	3/4/10	436.76	140	--	<0.5	2.1	<0.5	<0.5	25	--	--	--	--	--	--	--	--	--	--
	7/19/10	440.34	74	--	<0.5	1.3	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--
	1/20/11	441.24	190	69	<0.5	4.1	<0.5	<0.5	<5.0	<25.0	4,400	<25.0	<25.0	<25.0	--	--	<25.0	<25.0	--
	4/11/11	443.61	110	<50	<0.5	2.7	<0.5	<0.5	<5.0	<17	2,900	<17	<17	<17	--	--	<17	<17	<0.2
	4/18/11	445.64	160	<50	<0.5	4.3	<0.5	0.6	<5.0	<17	3,300	<17	<17	<17	--	--	<17	<17	<0.2
	5/9/11	444.99	79	<50	<0.5	2.0	<0.5	<0.5	<5.0	<17	3,000	<17	<17	<17	--	--	<17	<17	<0.2
	6/1/11	444.14	72	<50	<0.5	1.9	<0.5	<0.5	<5.0	<50	3,100	<50	<50	<50	--	--	<50	<50	<0.2
	6/15/11	443.94	100	<50	<0.5	2.2	<0.5	<0.5	<5.0	<50	2,700	<50	<50	<50	--	--	<50	<50	<0.2
	6/30/11	443.74	100	<50	<0.5	2.4	<0.5	<0.5	<5.0	<25	2,900	<25	<25	<25	--	--	<25	<25	<0.2
	9/19/11	441.29	<50	56	<0.5	1.1	<0.5	<0.5	<5.0	<17	3,300	<17	<17	<17	--	--	<17	<17	--
	11/8/11	465.39	98	<50	<0.5	2.6	<0.5	<0.5	<5.0	<12	1,600	<12	<12	<12	--	--	<12	<12	--
	2/2/12	431.48	74	<50	<0.5	1.8	<0.5	<0.5	<5.0	<12	1,800	<12	<12	<12	--	--	<12	<12	--
	6/13/12	437.25	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<12	2,400	<12	<12	<12	--	--	<12	<12	--
	8/29/12	434.72	<50	<50	<0.5	0.73	<0.5	<0.5	<5.0	<12	2,000	<12	<12	<12	--	--	<12	<12	<0.2
	3/14/13	442.34	<50	<50	<0.5	1.60	<0.5	<0.5	<5.0	<17	1,700	<17	<17	<17	--	--	<17	<17	--
	6/25/13	439.69	<50	<50	<0.5	1.3	<0.5	<0.5	<5.0	<17	2,200	<17	<17	<17	--	--	<17	<17	<0.2
	7/22/13	NC	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	740	<5.0	<5.0	<5.0	--	--	<5.0	<5.0	<0.2
	8/26/13	420.39	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<10	1,700	<10	<10	<10	--	--	<10	<10	<0.2

Table 2
Groundwater Analytical Results
160 Holmes Street, Livermore, California

Well ID	Date Collected	Groundwater Elevation (feet above MSL)	Total Petroleum Hydrocarbons (µg/L)		Aromatic Volatile Organic Compounds (µg/L)					Oxygenated Volatile Organics (µg/L)						Lead Scavengers (µg/L)		Hexavalent Chromium (µg/L)		
			Gasoline	Diesel	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE (8021B)	TAME	TBA	DIPE	ETBE	MTBE	Ethanol	Methanol	EDB		1,2-DCA	
MW-7C	3/13/06	445.34	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<5.0	<0.5	<0.5	0.60	<50	<500	<0.5	<0.5	--	
	4/7/06	448.21	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<5.0	<0.5	<0.5	<0.5	<50	<500	<0.5	<0.5	--	
	7/28/06	441.24	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<5.0	<0.5	<0.5	<0.5	--	--	--	--	--	--
	10/13/06	440.65	89	<50	<0.5	1.4	<0.5	<0.5	900	<17	12,000	<17	<17	820	<1700	<17,000	--	--	--	
	***	11/21/06	NC	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	24	<0.5	<0.5	<0.5	<50	<500	<0.5	<0.5	--
	1/4/07	442.86	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	24	<0.5	<0.5	<0.5	<50	<500	<0.5	<0.5	--	
	4/16/07	440.66	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<5.0	<0.5	<0.5	<0.5	<50	<500	<0.5	<0.5	--	
	7/17/07	428.69	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<5.0	<0.5	<0.5	<0.5	--	--	--	--	--	
	10/29/07	417.14	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<5.0	<0.5	<0.5	<0.5	<50	<500	<0.5	<0.5	--	
	2/1/08	431.39	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<2.0	<0.5	<0.5	<0.5	<50	<500	<0.5	<0.5	--	
	4/18/08	436.64	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<2.0	<0.5	<0.5	<0.5	<50	<500	<0.5	<0.5	--	
	7/28/08	420.39	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<2.0	<0.5	<0.5	<0.5	<50	<500	<0.5	<0.5	--	
	11/18/08	415.77	97	<50	<0.5	<0.5	<0.5	<0.5	<90	<1.0	<4.0	<1.0	<1.0	<1.0	<100	<1,000	<1.0	<1.0	--	
	2/4/09	417.50	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--	
	4/22/09	428.41	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--	
	9/24/09	425.90	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<2.0	<0.5	<0.5	<0.5	<50	<500	<0.5	<0.5	--	
	3/4/10	438.73	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--	
	7/19/10	440.01	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--	
	1/20/11	440.89	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--	
	4/7/11	445.51	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--	
	9/20/11	441.89	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<2.0	<0.5	<0.5	<0.5	--	--	<0.5	<0.5	--	
	11/8/11	440.99	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<2.0	<0.5	<0.5	<0.5	--	--	<0.5	<0.5	--	
	2/2/12	431.25	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<2.0	<0.5	<0.5	<0.5	--	--	<0.5	<0.5	--	
	6/13/12	436.85	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<2.0	<0.5	<0.5	<0.5	--	--	<0.5	<0.5	--	
	8/30/12	434.32	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<2.0	<0.5	<0.5	<0.5	--	--	--	--	--	
	3/14/13	442.05	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--	
6/25/13	439.39	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--		
7/22/13	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		
8/24/13	NC	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--		
MW-8A	7/28/08	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		
	11/18/08	NC	67	<50	<0.5	2.6	<0.5	1.6	<5.0	<0.5	<2.0	<0.5	<0.5	4.9	<50	<500	<0.5	<0.5		
	2/4/09	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		
	4/21/09	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		
	9/24/09	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		
	3/4/10	NC	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--		
	7/20/10	NC	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--		
	1/20/11	NC	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--		
	4/7/11	NC	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--		
	9/19/11	NC	<50	--	<0.5	<0.5	<0.5	<0.5	5.3	--	--	--	--	--	--	--	--	--		
	11/7/11	NC	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--		
	2/2/12	NC	<50	--	<0.5	<0.5	<0.5	<0.5	9.7	--	--	--	--	--	--	--	--	--		
6/12/12	NC	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<2.0	<0.5	<0.5	<0.5	--	--	--	--			

Table 2
Groundwater Analytical Results
160 Holmes Street, Livermore, California

Well ID	Date Collected	Groundwater Elevation (feet above MSL)	Total Petroleum Hydrocarbons (µg/L)		Aromatic Volatile Organic Compounds (µg/L)					Oxygenated Volatile Organics (µg/L)						Lead Scavengers (µg/L)		Hexavalent Chromium (µg/L)		
			Gasoline	Diesel	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE (8021B)	TAME	TBA	DIPE	ETBE	MTBE	Ethanol	Methanol	EDB		1,2-DCA	
MW-8A cont.	8/29/12	NC	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<2.0	<0.5	<0.5	3.0	--	--	--	--	--	
	3/14/13	NC	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--	
	6/25/13	NC	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--	
	7/22/13	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	8/26/13	NC	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--	
MW-8B	7/28/08	NC	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<2.0	<0.5	<0.5	2.5	<50	<500	<0.5	<0.5	--	
	11/18/08	NC	<50	120	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<2.0	<0.5	<0.5	5.1	<50	<500	<0.5	<0.5	--	
	2/4/09	NC	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--	
	4/22/09	NC	50	--	<0.5	<0.5	<0.5	<0.5	1300	--	--	--	--	--	--	--	--	--	--	
	9/24/09	NC	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<2.0	<0.5	<0.5	<0.5	<50	<500	<0.5	<0.5	--	
	3/4/10	NC	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--	
	7/20/10	NC	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--	
	1/20/11	NC	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--	
	4/7/11	NC	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--	
	9/19/11	NC	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--	
	11/7/11	NC	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--	
	2/2/12	NC	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--	
	6/13/12	NC	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<2.0	<0.5	<0.5	<0.5	--	--	--	--	--	
	8/30/12	NC	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<2.0	<0.5	<0.5	<0.5	--	--	--	--	--	
	3/14/13	NC	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--	
	6/25/13	NC	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--	
	7/22/13	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	8/26/13	NC	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--	
	MW-9A	7/28/08	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		11/18/08	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2/4/09		NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
4/21/09		NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
9/24/09		NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
3/4/10		NC	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--	
7/20/10		NC	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--	
1/20/11		NC	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	74	<0.5	<0.5	1.1	<50	<500	<0.5	<0.5	--	
4/7/11		NC	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	65	<0.5	<0.5	0.74	--	--	<0.5	<0.5	--	
9/19/11		NC	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	120	<0.5	<0.5	1.6	--	--	<0.5	<0.5	--	
11/7/11		NC	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	2.9	<0.5	<0.5	<0.5	--	--	<0.5	<0.5	--	
2/1/12		NC	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<1.0	200	<1.0	<1.0	1.2	--	--	<1.0	<1.0	--	
6/12/12		NC	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<2.0	<0.5	<0.5	<0.5	--	--	<0.5	<0.5	--	
8/30/12		NC	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<2.0	<0.5	<0.5	<0.5	--	--	<0.5	<0.5	--	
3/13/13		NC	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--	
6/25/13		NC	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--	
7/22/13		NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
8/26/13		NC	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--	

Table 2
Groundwater Analytical Results
160 Holmes Street, Livermore, California

Well ID	Date Collected	Groundwater Elevation (feet above MSL)	Total Petroleum Hydrocarbons (µg/L)		Aromatic Volatile Organic Compounds (µg/L)					Oxygenated Volatile Organics (µg/L)						Lead Scavengers (µg/L)		Hexavalent Chromium (µg/L)	
			Gasoline	Diesel	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE (8021B)	TAME	TBA	DIPE	ETBE	MTBE	Ethanol	Methanol	EDB		1,2-DCA
MW-9B	7/29/08	NC	<50	63	<0.5	<0.5	<0.5	<0.5	100	<10	2,800	<10	<10	160	<1,000	<10,000	<10	<10	--
	11/18/08	NC	<50	1,000	<0.5	<0.5	<0.5	<0.5	7.0	<0.5	4.6	<0.5	<0.5	7.5	<50	<500	<0.5	<0.5	--
	2/4/09	NC	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--
	4/22/09	NC	<50	--	<0.5	<0.5	<0.5	<0.5	470	--	--	--	--	--	--	--	--	--	--
	9/24/09	NC	<50	--	<0.5	<0.5	<0.5	<0.5	5.4	<0.5	<2.0	<0.5	<0.5	7.2	<50	<500	<0.5	<0.5	--
	3/4/10	NC	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--
	7/20/10	NC	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--
	1/20/11	NC	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	8.9	<0.5	<0.5	0.65	<50	<500	<0.5	<0.5	--
	4/7/11	NC	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	22	<0.5	<0.5	1.2	--	--	<0.5	<0.5	--
	9/19/11	NC	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<2.0	<0.5	<0.5	1.2	--	--	<0.5	<0.5	--
	11/7/11	NC	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<2.0	<0.5	<0.5	1.7	--	--	<0.5	<0.5	--
	2/1/12	NC	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	89	<0.5	<0.5	3.3	--	--	<0.5	<0.5	--
	6/12/12	NC	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<2.0	<0.5	<0.5	1.6	--	--	<0.5	<0.5	--
	8/30/12	NC	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<2.0	<0.5	<0.5	0.55	--	--	<0.5	<0.5	--
	3/13/13	NC	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--
	6/25/13	NC	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--
	7/22/13	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8/26/13	NC	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--
EX-1**	11/14/01	431.89	13,000	2,000	180	1,000	330	3,200	2,200	--	--	--	--	--	--	--	--	--	--
	5/7/02	437.72	7,700	560	320	<25	66	150	6,200	--	--	--	--	--	--	--	--	--	--
	9/11/02	NC	2,800	--	32	<13	14	<13	2,500	--	--	--	--	--	--	--	--	--	--
	12/1/02	437.32	3,000	100	81	<0.5	44	<1.0	4,800	--	--	--	--	--	--	--	--	--	--
	3/14/03	442.28	750	50	<0.5	<0.5	7.7	13	1,200	--	--	--	--	--	--	--	--	--	--
	6/25/03	442.89	120	<50	3.2	3.7	4.2	7.6	260	--	--	--	--	--	--	--	--	--	--
	9/16/03	440.65	170	<50	0.5	1.5	<0.5	0.9	1,600	--	--	--	--	--	--	--	--	--	--
	3/10/04	447.31	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	6/15/04	442.82	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/17/04	439.39	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/10/04	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/2/05	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	5/27/05	446.62	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	7/21/05	443.75	<50	--	<0.5	<0.5	<0.5	<0.5	610	--	--	--	--	--	--	--	--	--	--
	10/10/05	442.57	<50	--	<0.5	<0.5	<0.5	<0.5	31	--	--	--	--	--	--	--	--	--	--
1/9/06	447.25	580	55	40	25	45	43	4,200	<170	<1,700	<170	<170	5,200	<170,000	<17,000	<170	<170	--	

Table 2
Groundwater Analytical Results
160 Holmes Street, Livermore, California

Well ID	Date Collected	Groundwater Elevation (feet above MSL)	Total Petroleum Hydrocarbons (µg/L)		Aromatic Volatile Organic Compounds (µg/L)					Oxygenated Volatile Organics (µg/L)						Lead Scavengers (µg/L)		Hexavalent Chromium (µg/L)		
			Gasoline	Diesel	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE (8021B)	TAME	TBA	DIPE	ETBE	MTBE	Ethanol	Methanol	EDB		1,2-DCA	
EW-1	3/13/06	446.47	210	120	5.0	4.10	7.5	12	3,400	<50	<100	<50	<50	2,300	<5,000	<50,000	<50	<50	--	
	4/7/06	449.46	1,900	190	66	170	110	380	7,900	<100	<1000	<100	<100	6,400	<10,000	<100,000	<100	<100	--	
	7/27/06	441.60	280	100	7.4	5.5	12	28	8,400	<500	<5,000	<500	<500	12,000	--	--	--	--	--	
	10/12/06	441.94	2,100	130	86	19	100	310	2,400	<50	1,400	<50	<50	2,800	<5,000	180,000	--	--	--	
	1/4/07	444.00	1,600	150	56	27	110	240	5,000	<50	2,900	<50	<50	4,900	<5,000	<50,000	<50	<50	--	
	4/13/07	441.76	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	7/16/07	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	10/29/07	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/1/08	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	4/18/08	437.62	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	7/28/08	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/18/08	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/4/09	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	4/21/09	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/24/09	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/4/10	NC	4,400	--	460	<25	380	<25	31,000	--	--	--	--	--	--	--	--	--	--	--
	7/20/10	441.10	400	--	4.4	6.6	1.8	4.4	590	--	--	--	--	--	--	--	--	--	--	--
	1/20/11	441.87	570	190	21	6.4	14	57	3,500	<50	15,000	<50	<50	3,300	--	--	<50	<50	--	
	4/8/11	446.60	410	220	11	4.2	3.1	43	2,400	<50	8,200	<50	<50	3,300	--	--	<50	<50	<0.2	
	4/18/11	445.75	200	130	<0.5	1.7	1.1	3.0	4,400	<50	14,000	<50	<50	3,600	--	--	<50	<50	6.1	
	5/9/11	445.76	62	<50	1.2	1.4	<0.5	<0.5	520	<25	4,800	<25	<25	390	--	--	<25	<25	<50	
	6/2/11	444.93	83	<50	1.3	2.1	<0.5	0.6	180	<100	9,600	<100	<100	240	--	--	<100	<100	<0.2	
	6/15/11	444.34	60	<50	<0.5	1.8	<0.5	<0.5	97	<100	6,300	<100	<100	100	--	--	<100	<100	<0.2	
	6/30/11	444.04	74	<50	<0.5	2.0	<0.5	<0.5	200	<50	5,700	<50	<50	200	--	--	<50	<50	--	
	9/20/11	443.10	63	52	<0.5	2.1	<0.5	<0.5	210	<50	11,000	<50	<50	190	--	--	<50	<50	--	
	11/8/11	442.10	78	<50	<0.5	1.8	<0.5	<0.5	76	<50	7,600	<50	<50	97	--	--	<50	<50	--	
	2/2/12	432.07	59	57	<0.5	1.1	<0.5	<0.5	270	<500	50,000	<500	<500	<500	--	--	<500	<500	--	
	6/13/12	438.07	<50	<50	<0.5	<0.5	<0.5	<0.5	<50	<50	13,000	<50	<50	<50	--	--	<50	<50	--	
	8/29/12	435.55	<50	<50	<0.5	0.62	<0.5	<0.5	<50	<50	8,100	<50	<50	<50	--	--	<50	<50	<0.2	
	3/14/13	443.07	<50	<50	<0.5	<0.5	<0.5	<0.5	<50	<25	2,500	<25	<25	<25	--	--	<25	<25	<0.2	
6/25/13	440.50	<50	160	<0.5	<0.5	<0.5	<0.5	25	<50	4,400	<50	<50	<50	--	--	<50	<50	19		
7/22/13	NC	<50	55	<0.5	<0.5	<0.5	<0.5	33	<50	530	<50	<50	29	--	--	<50	<50	6.7		
8/24/13	439.93	<50	72	<0.5	<0.5	<0.5	<0.5	43	<50	4,500	<50	<50	35	--	--	<50	<50	1.6		

Table 2
Groundwater Analytical Results
160 Holmes Street, Livermore, California

Well ID	Date Collected	Groundwater Elevation (feet above MSL)	Total Petroleum Hydrocarbons (µg/L)		Aromatic Volatile Organic Compounds (µg/L)					Oxygenated Volatile Organics (µg/L)						Lead Scavengers (µg/L)		Hexavalent Chromium (µg/L)		
			Gasoline	Diesel	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE (8021B)	TAME	TBA	DIPE	ETBE	MTBE	Ethanol	Methanol	EDB		1,2-DCA	
EW-2	3/13/06	446.81	<250	69	<2.5	<2.5	<2.5	<2.5	5,400	<100	<1,000	<100	<100	5,100	<10,000	<100,000	<100	<100	--	
	4/7/06	449.79	470	160	15	2.5	24	13	2,000	<50	<500	<50	<50	1,800	<5,000	<50,000	<50	<50	--	
	7/27/06	442.89	260	350	2.2	1.7	6.1	3.0	8,700	<500	<5,000	<500	<500	12,000	--	--	--	--	--	
	10/12/06	444.51	110	<50	2.0	1.0	3.1	3.9	620	<12	<120	<12	<12	680	<1,200	<12,000	--	--	--	
	1/4/07	444.33	<500	<50	5.3	<5.0	16	7.1	4,500	<50	<500	<50	<50	4,200	<5,000	<50,000	<50	<50	--	
	4/13/07	442.06	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	7/16/07	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	10/29/07	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/1/08	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	4/18/08	437.95	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	7/28/08	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/18/08	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/4/09	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	4/21/09	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/24/09	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/4/10	NC	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--	--
	7/20/10	441.54	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--	--
	1/21/11	442.27	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	2.8	<0.5	<0.5	2.1	--	--	<0.5	<0.5	--	
	4/11/11	446.99	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	2.1	<0.5	<0.5	0.65	--	--	<0.5	<0.5	0.65	
	4/18/11	446.80	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<2.0	<0.5	<0.5	0.7	--	--	<0.5	<0.5	0.51	
	5/9/11	446.32	<50	<50	<0.5	<0.5	<0.5	<0.5	15	<0.5	2.8	<0.5	<0.5	12	--	--	<0.5	<0.5	0.7	
	6/2/11	445.28	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	12	<0.5	<0.5	6.2	--	--	<0.5	<0.5	14	
	6/15/11	444.99	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<2.0	<0.5	<0.5	2.3	--	--	<0.5	<0.5	5.4	
	6/30/11	444.68	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<2.0	<0.5	<0.5	2.4	--	--	<0.5	<0.5	2.3	
	9/20/11	441.44	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<2.0	<0.5	<0.5	1.3	--	--	<0.5	<0.5	--	
	11/8/11	442.39	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<2.0	<0.5	<0.5	1.0	--	--	<0.5	<0.5	--	
	2/2/12	432.33	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	490	<5.0	<5.0	<5.0	--	--	<5.0	<5.0	--	
	6/13/12	438.35	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<2.0	<5.0	<5.0	0.89	--	--	<5.0	<5.0	--	
	8/28/12	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/14/13	443.41	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	--	--
6/25/13	439.85	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
7/22/13	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
8/24/13	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	

Table 2
Groundwater Analytical Results
160 Holmes Street, Livermore, California

Well ID	Date Collected	Groundwater Elevation (feet above MSL)	Total Petroleum Hydrocarbons (µg/L)		Aromatic Volatile Organic Compounds (µg/L)					Oxygenated Volatile Organics (µg/L)						Lead Scavengers (µg/L)		Hexavalent Chromium (µg/L)		
			Gasoline	Diesel	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE (8021B)	TAME	TBA	DIPE	ETBE	MTBE	Ethanol	Methanol	EDB		1,2-DCA	
EW-3 ^(a)	11/18/08	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	2/4/09	NC	<10,000	--	<100	<100	<100	<100	420,000	--	--	--	--	--	--	--	--	--	--	--
	4/21/09	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/24/09	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/4/10	NC	140,000	--	240	900	320	28,000	340,000	--	--	--	--	--	--	--	--	--	--	--
	7/20/10	NC	23,000	--	240	940	760	3,100	150,000	--	--	--	--	--	--	--	--	--	--	--
	1/21/11	NC	15,000	5,200	230	93	1,100	1,900	150,000	<2,500	72,000	<2,500	<2,500	150,000	--	--	<2,500	<2,500	--	--
	4/11/11	NC	8,400	590	110	37	690	820	68,000	<2,500	67,000	<2,500	<2,500	79,000	--	--	<2,500	<2,500	<0.2	<0.2
	4/18/11	NC	7,300	1,300	81	100	350	870	85,000	<1,700	50,000	<1,700	<1,700	72,000	--	--	<1,700	<1,700	0.35	0.35
	5/9/11	NC	5,400	2,200	56	<50	160	350	79,000	<1,000	40,000	<1,000	<1,000	62,000	--	--	<1,000	<1,000	7.0	7.0
	6/1/11	NC	4,800	3,700	53	<25	170	300	50,000	<1,000	43,000	<1,000	<1,000	76,000	--	--	<1,000	<1,000	160	160
	6/15/11	NC	8,200	2,200	66	<50	270	360	93,000	<2,500	47,000	<2,500	<2,500	85,000	--	--	<2,500	<2,500	180	180
	6/30/11	NC	8,000	1,900	64	<50	260	260	100,000	<2,500	51,000	<2,500	<2,500	100,000	--	--	<2,500	<2,500	110	110
	9/20/11	NC	<5,000"	1,700	<50"	64	74	100	80,000	<2,500	91,000	<2,500	<2,500	78,000	--	--	<2,500	<2,500	--	--
	11/8/11	NC	<6,000"	860	<50"	<50	60	130	82,000	<2,500	49,000	<2,500	<2,500	67,000	--	--	<2,500	<2,500	--	--
	2/2/12	NC	1,600	510	<5.0"	13	10	35	24,000	<500	62,000	<500	<500	26,000	--	--	<500	<500	--	--
	6/13/12	NC	490	870	<0.5	2.3	3.0	7.9	8,600	<250	66,000	<250	<250	9,300	--	--	<250	<250	--	--
	8/30/12	NC	430	580	<1.7	<1.7	5.7	20	3,900	<500	82,000	<500	<500	3,900	--	--	<500	<500	--	--
	3/14/13	NC	<1000	500	<10	<10	<10	<10	6,300	<500	130,000	<500	<500	6,200	--	--	<500	<500	<0.2	<0.2
	6/25/13	NC	140	1,600	<0.5	0.8	2.6	4.4	<10	<1.0	130	<1.0	<1.0	9.0	--	--	<1.0	<1.0	44	44
7/22/13	NC	410	480	1.0	0.68	<0.5	14	1,500	<50	7,100	<50	<50	1,400	--	--	<50	<50	24	24	
8/24/13	NC	510	370	2.0	1.1	1.6	15	4,100	<100	16,000	<100	<100	4,300	--	--	<100	<100	18	18	
EW-3B ^(b)	3/14/13	NC	58	110	<0.5	0.64	<0.5	<0.5	13	<50	14,000	<50	<50	<50	--	--	<50	<50	<0.2	<0.2
	6/25/13	NC	120	180	<0.5	1.1	<0.5	<0.5	<30	<250	27,000	<250	<250	<250	--	--	<250	<250	21	21
	7/22/13	NC	80	140	0.59	0.54	0.88	1.0	24	<100	15,000	<100	<100	<100	--	--	<100	<100	25	25
	8/24/13	NC	84	110	0.87	0.69	0.66	1.8	22	<100	16,000	<100	<100	<100	--	--	<100	<100	19	19

Notes:

Samples analyzed for TPHg and TPHd by EPA Method 8015Bm, BTEX by EPA Method 8021B, MTBE by EPA Method 8021B and/or 8260B, fuel oxygenates and lead scavengers by EPA Method 8260, and hexavalent chromium by EPA Method E200.8.

µg/L = micrograms per liter

NC = Not Calculated

NS = Not Sampled

-- = Not Analyzed

EDB = 1,2-Dibromoether

1,2-DCA = 1,2-Dichloroethane

MTBE = Methyl tertiary butyl ether

DIPE = Di-isopropyl Ether

ETBE = Ethyl tert-Butyl Ether

TAME - tert-Amyl Methyl Ether

TBA = tert-Butanol

" = High concentrations of MTBE resulted in high reporting limits, both TPHg and benzene were estimated just below listed reporting limits by laboratory.

* = Well MW-1 renamed MW-1A, well MW-2 renamed MW-2A, Well MW-3 renamed MW-3A in February 2006.

** = Well destroyed in February 2006.

*** = Anomalous data observed in MW-7C on October 12, 2006. Therefore, MW-7A/B/C were resampled on November 21, 2006.

(a) = Well EW-3 is 35 feet deep with a screen interval from 25 to 30 feet bgs.

(b) = Well EW-3B is 39 feet deep with a screen interval from 24 to 39 feet bgs.

APPENDIX A
Groundwater Monitoring Field Protocol

Appendix A

Groundwater Monitoring Protocol

Well Monitoring and Sample Collection

A Teflon bailer or submersible pump was used to purge a minimum of three well volumes of groundwater from each well. After each well volume is purged, field parameters such as pH, temperature, and conductivity are recorded. Wells are purged until field parameters have stabilized or a maximum of ten (10) well volumes of groundwater have been removed. When possible, purge rates will not exceed the recharge rate for the well. However, if the well yield is low and the well was dewatered, the well is allowed to recharge to 80% of its original volume prior to sample collection. Field parameter measurements and pertinent qualitative observations, such as groundwater color and odor, are recorded in Groundwater Sampling Field Logs. Groundwater samples are collected in appropriate bottles and stored on ice for delivery, under chain-of-custody documentation, to a state-certified laboratory for analysis.

Equipment Decontamination

All drilling, sampling, and well development equipment was cleaned in a solution of laboratory grade detergent and distilled water or steam cleaned before use at each sampling point.

Field Personnel

During groundwater sampling activities, sampling personnel will wear pertinent attire to minimize risks to health and safety. Field personnel will also use a pair of clean, powderless, surgical gloves for each successive sampling point. Used surgical gloves will be placed into waste barrels for future disposal.

Waste Disposal

Water generated during well purging and sampling activities will be placed into DOT-approved 55-gallon waste drums. Waste drums will be temporarily stored on-site pending proper disposal of wastewater to an approved transport, storage, and disposal (TSD) facility.

APPENDIX B
Groundwater Sampling Field Logs



Groundwater Sampling Field Log

Site Address: 160 Holmes

Project Number: 160

Date: 8/24/13

Field Personnel: LF

Monitoring Well Information

Monitoring Well ID: MW-1A

Depth to Water (ft): 25.09

Total Depth (ft): 28.50

Depth to Product (ft):

Comments:

Monitoring Well Diameter (in): 2" CC

Water Column (feet): 3.41 (.17) = 0.579

80% Recharge Depth (ft):

1 Well Volume (gallons): 1.579(3) = 1.74

Field Measurements and Observations

Time	Depth to Water	Purge Volume	Conductivity	Temperature	Dissolved Oxygen	Oxidation Reduction Potential	pH	Turbidity	Color	Odor
		1	4.52	21			7.98			
		.5	10.09	22			8.08	NONE	gray	NONE

Total Purge Volume: _____

Comments: DRY!!

Groundwater Sampling Information

Sample ID: MW-1A

Sample Containers (#/Type):

Comments:

MW-1A

(5) VOA HCL (1) 250 ml Poly NaB4, Na2CO3, KNCO3

Sample Time:

Groundwater Sampling Field Log

Site Address: 160 Holmes

Project Number: 160

Date:

Field Personnel:

Monitoring Well Information

Monitoring Well ID: MW-1B

Depth to Water (ft): 25.11

Total Depth (ft): 54.50

Depth to Product (ft):

Comments:

Monitoring Well Diameter (in): 2" CC

Water Column (feet): 27.37 (.17) = 4.99

80% Recharge Depth (ft):

1 Well Volume (gallons): 4.99(3) = 14.98

Field Measurements and Observations

Time	Depth to Water	Purge Volume	Conductivity	Temperature	Dissolved Oxygen	Oxidation Reduction Potential	pH	Turbidity	Color	Odor
11:50		5	20.8	24.44	7.33	56	10.83	38.2	clear	NONE
12:00		12	20.7	21.10	5.05	165	9.32	16.0	gray	NONE
12:15		15	25.01	21.43	6.4	162	8.32	12.4	gray	NONE

Total Purge Volume: 15

Comments:

Groundwater Sampling Information

Sample ID: MW-1B

Sample Containers (#/Type):

Comments:

MW-1B

(5) VOA HCL (1) 250 ml Poly NaB4, Na2CO3, KNCO3

Sample Time: 12:30

Groundwater Sampling Field Log

Site Address: **160 Holmes**

Date:

Project Number: **160**

Field Personnel:

Monitoring Well Information

Monitoring Well ID: **MW-4A**

Monitoring Well Diameter (in): **2"**

CC

Depth to Water (ft):

Water Column (feet):

(.17) =

Total Depth (ft): **28.80**

80% Recharge Depth (ft):

Depth to Product (ft):

1 Well Volume (gallons):

Comments:

Field Measurements and Observations

Time	Depth to Water	Purge Volume	Conductivity	Temperature	pH	Turbidity	Color	Odor

Total Purge Volume:

Comments: **NOT SAMPLED**

Groundwater Sampling Information

Sample ID:

MW-4A

Sample Time:

Sample Containers (#/Type):

(3) VOA HCL

Comments:

Not sampled

Groundwater Sampling Field Log

Site Address: **160 Holmes**

Date:

Project Number: **160**

Field Personnel:

Monitoring Well Information

Monitoring Well ID: **MW-5A**

Monitoring Well Diameter (in): **2"**

CC

Depth to Water (ft): **26.66**

Water Column (feet):

7.34 (.17) = 1.25

Total Depth (ft): **34.00**

80% Recharge Depth (ft):

Depth to Product (ft):

1 Well Volume (gallons):

1.25(3) = 3.74

Comments:

Field Measurements and Observations

Time	Depth to Water	Purge Volume	Conductivity	Temperature	pH	Turbidity	Color	Odor
13:05		2	.936	24.82	8.41	194	gray	none
1:10		4	.852	23.96	8.24	300	gray	none

Total Purge Volume: **4**

Comments: **(2) ORP = 155 DO = 8.64 (4): DO = 8.20**

Groundwater Sampling Information

Sample ID:

MW-5A

Sample Time:

1:15

ORP:

Sample Containers (#/Type):

(3) VOA HCL

Comments:

158

Groundwater Sampling Field Log

Site Address: 160 Holmes

Date:

Project Number: 160

Field Personnel:

Monitoring Well Information

Monitoring Well ID: MW-5B

Monitoring Well Diameter (in): 2" CC

Depth to Water (ft): 26.86

Water Column (feet): 25.78 $(.17) = 4.38$

Total Depth (ft): 52.64

80% Recharge Depth (ft):

Depth to Product (ft):

1 Well Volume (gallons): $4.38(3) = 13.15$

Comments:

Field Measurements and Observations

Time	Depth to Water	Purge Volume	Conductivity	Temperature	pH	Turbidity	DO Color	ORP -Odor
10:15	26.86	4	.613	20.85	11.73	19.5	6.57	81
10:30		8	.599	19.66	10.81	37.6	5.77	95
10:40		13	.552	19.79	10.39	37.1		105

Total Purge Volume: 13

Comments: color: gray/yellow NO odor

Groundwater Sampling Information

Sample ID: MW-5B

Sample Containers (#/Type): (3) VOA HCL

Sample Time: 10:45

Comments:

Groundwater Sampling Field Log

Site Address: 160 Holmes

Date:

Project Number: 160

Field Personnel:

Monitoring Well Information

Monitoring Well ID: MW-6

Monitoring Well Diameter (in): 2" CC

Depth to Water (ft): 25.86

Water Column (feet): 21.14 $(.17) = 3.60$

Total Depth (ft): 47.00

80% Recharge Depth (ft):

Depth to Product (ft):

1 Well Volume (gallons): $3.60(3) = 10.78$

Comments:

Field Measurements and Observations

Time	Depth to Water	Purge Volume	Conductivity	Temperature	pH	Turbidity	do Color	ORP -Odor
11:10	25.86	3	.512	20.41	9.5	0	6.52	153
11:20		6	.433	19.22	9.33	0	7.20	157
11:30		10	.463	19.56	9.09	0	6.49	164

Total Purge Volume: 10

Comments: Color: brown odor: none

Groundwater Sampling Information

Sample ID: MW-6

Sample Containers (#/Type): (3) VOA HCL

Sample Time: 11:40

Comments:



Groundwater Sampling Field Log

Site Address: 160 Holmes					Date:					
Project Number: 160					Field Personnel:					
Monitoring Well Information										
Monitoring Well ID: MW-7A					Monitoring Well Diameter (in): 2" CC					
Depth to Water (ft): 25.00					Water Column (feet): 4.00 (.17) = .68					
Total Depth (ft): 29.00					80% Recharge Depth (ft):					
Depth to Product (ft):					1 Well Volume (gallons): .68(3) = 2.04					
Comments:										
Field Measurements and Observations										
Time	Depth to Water	Purge Volume	Conductivity	Temperature	Dissolved Oxygen	Oxidation Reduction Potential	pH	Turbidity	Color	Odor
1:20	25.00	1	1.78	22.30	4.02	85	7.63	501	blackish	none
1:30	well dry!	2	1.43	21.53	5.50	77	7.61	1000(?)	grey	↓
Total Purge Volume: 2					Comments: Turbidity was blinking 1000					
Groundwater Sampling Information										
Sample ID: MW-7A					Sample Time: 3:40					
Sample Containers (#/Type): (5) VOA HCL (1) 250 ml Poly NaB4, Na2CO3, KNCO3					Comments:					

Groundwater Sampling Field Log

Site Address: 160 Holmes					Date:					
Project Number: 160					Field Personnel:					
Monitoring Well Information										
Monitoring Well ID: MW-7B					Monitoring Well Diameter (in): 2" CC					
Depth to Water (ft): 26.26					Water Column (feet): 22.24 (.17) = 3.78					
Total Depth (ft): 48.50					80% Recharge Depth (ft):					
Depth to Product (ft):					1 Well Volume (gallons): 3.78(3) = 11.34					
Comments:										
Field Measurements and Observations										
Time	Depth to Water	Purge Volume	Conductivity	Temperature	Dissolved Oxygen	Oxidation Reduction Potential	pH	Turbidity	Color	Odor
12:10		5	1.746	23.25	4.05	87	8.22	19	gray	—
12:20		10	1.839	21.32	3.34	55	7.77	4.7	↓	↓
12:30		11	1.848	21.38	3.20	52	7.77	5.6	↓	↓
Total Purge Volume: 11					Comments:					
Groundwater Sampling Information										
Sample ID: MW-7B					Sample Time: 12:40					
Sample Containers (#/Type): (5) VOA HCL (1) 250 ml Poly NaB4, Na2CO3, KNCO3					Comments:					

Groundwater Sampling Field Log

Site Address: **160 Holmes** Date: **8/24/13**
 Project Number: **160** Field Personnel: **J-Hat**

Monitoring Well Information

Monitoring Well ID: **MW-7C** Monitoring Well Diameter (in): **2"** CC
 Depth to Water (ft): **26.64** Water Column (feet): **41.86** $(.17) = 7.12$
 Total Depth (ft): **68.50** 80% Recharge Depth (ft):
 Depth to Product (ft): 1 Well Volume (gallons): **7.12(3) = 21.35**
 Comments:

Field Measurements and Observations

Time	Depth to Water	Purge Volume	Conductivity	Temperature	pH	Turbidity	Color	Odor
12:00	26.64	5	.472	20.61	8.82	10.3		No
12:15		10	.482	20.36	8.59	10.8		
12:28		20	.494	20.54	8.47	6.2		

Total Purge Volume: **20g** Comments: **Very Clear H₂O.**

Groundwater Sampling Information

Sample ID: **MW-7C** Sample Time: **12:30**
 Sample Containers (#/Type): **(3) VOA HCL**
 Comments:

Groundwater Sampling Field Log

Site Address: **160 Holmes** Date:
 Project Number: **160** Field Personnel:

Monitoring Well Information

Monitoring Well ID: **MW-8A** Monitoring Well Diameter (in): **2"** CC
 Depth to Water (ft): **26.13** Water Column (feet): **9.37** $(.17) = 1.59$
 Total Depth (ft): **35.50** 80% Recharge Depth (ft):
 Depth to Product (ft): 1 Well Volume (gallons): **1.59(3) = 4.78**
 Comments:

Field Measurements and Observations

Time	Depth to Water	Purge Volume	Conductivity	Temperature	pH	Turbidity	DO -Color-	ORP -Odor-
12:40	35.50	1.5	.651	21.33	8.06	182	4.32	119
12:45		3	.669	20.14	7.93	487	4.11	132
12:50		5	.534	20.21	7.86	416	4.68	170

Total Purge Volume: **5** Comments: **color: brown odor: none**

Groundwater Sampling Information

Sample ID: **MW-8A** Sample Time: **2:00**
 Sample Containers (#/Type): **(3) VOA HCL**
 Comments:

Groundwater Sampling Field Log

Site Address: **160 Holmes** Date: _____
 Project Number: **160** Field Personnel: _____

Monitoring Well Information

Monitoring Well ID: **MW-8B** Monitoring Well Diameter (in): **2"** **CC**
 Depth to Water (ft): **25.91** Water Column (feet): **24.59** **(.17) = 4.18**
 Total Depth (ft): **50.50** 80% Recharge Depth (ft): _____
 Depth to Product (ft): _____ 1 Well Volume (gallons): **4.18(3) = 12.54**
 Comments: _____

Field Measurements and Observations

Time	Depth to Water	Purge Volume	Conductivity	Temperature	pH	Turbidity	DO Color	ORP Odor
2:20	25.91	4	0.497	20.73	7.9	12.4	7.71	183
2:30		8	0.498	20.37	7.91	29.9	6.55	182
2:40		12	0.500	20.38	7.88	35.7	6.06	183

Total Purge Volume: **12** Comments: **color: grayish odor**

Groundwater Sampling Information

Sample ID: **MW-8B** Sample Time: **2:40**
 Sample Containers (#/Type): **(3) VOA HCL**
 Comments: _____

Groundwater Sampling Field Log

Site Address: **160 Holmes** Date: _____
 Project Number: **160** Field Personnel: _____

Monitoring Well Information

Monitoring Well ID: **MW-9A** Monitoring Well Diameter (in): **2"** **CC**
 Depth to Water (ft): **25.35** Water Column (feet): **14.15** **(.17) = 2.41**
 Total Depth (ft): **39.50** 80% Recharge Depth (ft): _____
 Depth to Product (ft): _____ 1 Well Volume (gallons): **2.41(3) = 7.22**
 Comments: _____

Field Measurements and Observations

Time	Depth to Water	Purge Volume	Conductivity	Temperature	pH	Turbidity	DO Color	ORP Odor
2:45	25.35	3.0	0.499	21.56	8.34	14.6	8.59	163
3:00		2.0	0.496	20.60	8.18	7.0	7.07	174
3:10		1	0.500	20.44	8.09	7.0	6.58	180

Total Purge Volume: **7** Comments: **color clear no odor**

Groundwater Sampling Information

Sample ID: **MW-9A** Sample Time: **3:10**
 Sample Containers (#/Type): **(3) VOA HCL**
 Comments: _____



Groundwater Sampling Field Log

Site Address: 160 Holmes	Date:
Project Number: 160	Field Personnel:

Monitoring Well Information

Monitoring Well ID: MW-9B	Monitoring Well Diameter (in): 2" CC
Depth to Water (ft): 25.42	Water Column (feet): 25.58 (.17) = 4.35
Total Depth (ft): 51.00	80% Recharge Depth (ft):
Depth to Product (ft):	1 Well Volume (gallons): 4.35(3) = 13.05
Comments:	

Field Measurements and Observations

Time	Depth to Water	Purge Volume	Conductivity	Temperature	pH	Turbidity	Color	Odor	
3:15	25.42	5	0.629	20.53	7.53	123	4.24	227	
3:30		10	0.636	19.97	7.40	155	5.05	225	
Total Purge Volume: 10		Comments: color: clear no odor							

Groundwater Sampling Information

Sample ID: MW-9B	Sample Time: 3:35
Sample Containers (#/Type): (3) VOA HCL	
Comments:	

Groundwater Sampling Field Log

Site Address: 160 Holmes	Date:
Project Number: 160	Field Personnel:

Monitoring Well Information

Monitoring Well ID: EW-1	Monitoring Well Diameter (in): 4" CC
Depth to Water (ft): 25.52	Water Column (feet): 13.48 (.66) = 8.90
Total Depth (ft): 39.00	80% Recharge Depth (ft):
Depth to Product (ft):	1 Well Volume (gallons): 8.90(3) = 26.70
Comments:	

Field Measurements and Observations

Time	Depth to Water	Purge Volume	Conductivity	Temperature	Dissolved Oxygen	Oxidation Reduction Potential	pH	Turbidity	Color	Odor
11:15		10	4.06	21.86	5.52	57	11.28	780	brown	None
11:25		20	3.46	20.00	5.09	60	10.52	0.00	brown	None
11:35		27	3.34	19.35	8.51	57	10.32	0.0	brown	None
Total Purge Volume: 27		Comments:								

Groundwater Sampling Information

Sample ID: EW-1	Sample Time: 11:40
Sample Containers (#/Type): (5) VOA HCL (1) 250 ml Poly NaB4, Na2CO3, KNC03	
Comments:	

Groundwater Sampling Field Log										
Site Address: 160 Holmes						Date: 8/24/13				
Project Number: 160						Field Personnel:				
Monitoring Well Information										
Monitoring Well ID: EW-3B						Monitoring Well Diameter (in): 4" CC				
Depth to Water (ft): 24.99						Water Column (feet): 19.01 (.66) = 9.25				
Total Depth (ft): 39.00						80% Recharge Depth (ft):				
Depth to Product (ft):						1 Well Volume (gallons): 9.25(3) = 27.75				
Comments:										
Field Measurements and Observations										
Time	Depth to Water	Purge Volume	Conductivity	Temperature	Dissolved Oxygen	Oxidation Reduction Potential	pH	Turbidity	Color	Odor
10:50	24.99	5	26.4	19.35	7.47	34	11.02	744	6rn/org	ND
11:00	24.99	5	24.6	18.96	7.25	35	11.12	8	"	"
4:00pm	24.99	3	27.2	20.69	10.74	27	9.82	0	"	"
Total Purge Volume:						Comments: NOT SAMPLED Org @ 10 ga				
Groundwater Sampling Information										
Sample ID: EW-3B						Sample Time: 4:00				
Sample Containers (#/Type): (5) VOA HCL (1) 250 ml Poly NaB4, Na2CO3, KNCO3						Comments:				

Groundwater Sampling Field Log										
Site Address:						Date:				
Project Number:						Field Personnel:				
Monitoring Well Information										
Monitoring Well ID:						Monitoring Well Diameter (in): CC				
Depth to Water (ft):						Water Column (feet):				
Total Depth (ft):						80% Recharge Depth (ft):				
Depth to Product (ft):						1 Well Volume (gallons):				
Comments:										
Field Measurements and Observations										
Time	Depth to Water	Purge Volume	Conductivity	Temperature			pH	Turbidity	Color	Odor
Total Purge Volume:						Comments:				
Groundwater Sampling Information										
Sample ID:						Sample Time:				
Sample Containers (#/Type):						Comments:				

APPENDIX C
Certified Analytical Reports and Chains-of-Custody



McC Campbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1308949

Report Created for: Allterra Environmental
849 Almar Ave, Ste. C #281
Santa Cruz, CA 95060

Project Contact: James Allen
Project Name: #160 Holmes Street Livermore CA
Project P.O.:

Project Received: 08/28/2013

Analytical Report reviewed & approved for release on 09/05/2013 by:

*Question about
your data?*

[Click here to email
McC Campbell](#)

Angela Rydelius,
Laboratory Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.





Glossary of Terms & Qualifier Definitions

Client: Allterra Environmental
Project: #160 Holmes Street Livermore CA
WorkOrder: 1308949

<u>Glossary Abbreviation</u>	<u>Description</u>
95% Interval	95% Confident Interval
DF	Dilution Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ND	Not detected at or above the indicated MDL or RL
NR	Analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix; or sample diluted due to high matrix or analyte content.
RL	Reporting Limit
RPD	Relative Percent Deviation
SPK Val	Spike Value
SPKRef Val	Spike Reference Value

Analytical Qualifier

H	samples were analyzed out of holding time
S	spike recovery outside accepted recovery limits
b1	aqueous sample that contains greater than ~1 vol. % sediment
c4	surrogate diluted out of range or surrogate coelutes with another peak.
d1	weakly modified or unmodified gasoline is significant
e2	diesel range compounds are significant; no recognizable pattern
e4	gasoline range compounds are significant.
e6	one to a few isolated peaks present in the THP(d/mo) chromatogram
e7	oil range compounds are significant



Analytical Report

Client: Allterra Environmental
Project: #160 Holmes Street Livermore CA
Date Received: 8/28/13 10:51
Date Prepared: 8/30/13

WorkOrder: 1308949
Extraction Method: E218.6
Analytical Method: E218.6
Unit: µg/L

Hexachrome by IC

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
MW-1B	1308949-001D	Water	08/24/2013 12:30	IC2	81158

Analytes	Result	RL	DF	Date Analyzed
Hexachrome	1.7	0.20	1	08/30/2013 15:11

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
MW-7A	1308949-002D	Water	08/26/2013 15:40	IC2	81158

Analytes	Result	RL	DF	Date Analyzed
Hexachrome	ND	0.20	1	08/30/2013 03:29

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
MW-7B	1308949-003D	Water	08/26/2013 12:40	IC2	81158

Analytes	Result	RL	DF	Date Analyzed
Hexachrome	ND	0.20	1	08/30/2013 03:47

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
EW-1	1308949-004D	Water	08/24/2013 11:40	IC2	81158

Analytes	Result	RL	DF	Date Analyzed
Hexachrome	1.6	0.20	1	08/30/2013 16:06

Analytical Comments: b1

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
EW-3	1308949-005D	Water	08/24/2013 13:40	IC2	81158

Analytes	Result	RL	DF	Date Analyzed
Hexachrome	18	4.0	20	08/30/2013 09:23

(Cont.)



Analytical Report

Client: Allterra Environmental
Project: #160 Holmes Street Livermore CA
Date Received: 8/28/13 10:51
Date Prepared: 8/30/13

WorkOrder: 1308949
Extraction Method: E218.6
Analytical Method: E218.6
Unit: µg/L

Hexachrome by IC

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
EW-3B	1308949-006D	Water	08/24/2013 16:00	IC2	81158

Analytes	Result	RL	DF	Date Analyzed
Hexachrome	19	4.0	20	08/30/2013 10:46

Analytical Comments: b1



Analytical Report

Client: Allterra Environmental
Project: #160 Holmes Street Livermore CA
Date Received: 8/28/13 10:51
Date Prepared: 8/31/13-9/3/13

WorkOrder: 1308949
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L

Oxygenated Volatile Organics + EDB and 1,2-DCA by P&T and GC/MS

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
MW-1B	1308949-001C	Water	08/24/2013 12:30	GC28	81238

Analytes	Result	RL	DF	Date Analyzed
tert-Amyl methyl ether (TAME)	ND	0.50	1	08/31/2013 04:52
t-Butyl alcohol (TBA)	ND	2.0	1	08/31/2013 04:52
1,2-Dibromoethane (EDB)	ND	0.50	1	08/31/2013 04:52
1,2-Dichloroethane (1,2-DCA)	ND	0.50	1	08/31/2013 04:52
Diisopropyl ether (DIPE)	ND	0.50	1	08/31/2013 04:52
Ethyl tert-butyl ether (ETBE)	ND	0.50	1	08/31/2013 04:52
Methyl-t-butyl ether (MTBE)	ND	0.50	1	08/31/2013 04:52

Surrogates	REC (%)	Limits	Date Analyzed
dibromofluoromethane	103	70-130	08/31/2013 04:52

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
MW-7A	1308949-002C	Water	08/26/2013 15:40	GC28	81238

Analytes	Result	RL	DF	Date Analyzed
tert-Amyl methyl ether (TAME)	ND	0.50	1	08/31/2013 05:30
t-Butyl alcohol (TBA)	32	2.0	1	08/31/2013 05:30
1,2-Dibromoethane (EDB)	ND	0.50	1	08/31/2013 05:30
1,2-Dichloroethane (1,2-DCA)	ND	0.50	1	08/31/2013 05:30
Diisopropyl ether (DIPE)	ND	0.50	1	08/31/2013 05:30
Ethyl tert-butyl ether (ETBE)	ND	0.50	1	08/31/2013 05:30
Methyl-t-butyl ether (MTBE)	1.1	0.50	1	08/31/2013 05:30

Surrogates	REC (%)	Limits	Date Analyzed
dibromofluoromethane	100	70-130	08/31/2013 05:30

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
MW-7B	1308949-003C	Water	08/26/2013 12:40	GC28	81238

Analytes	Result	RL	DF	Date Analyzed
tert-Amyl methyl ether (TAME)	ND	10	20	08/31/2013 11:15
t-Butyl alcohol (TBA)	1700	40	20	08/31/2013 11:15
1,2-Dibromoethane (EDB)	ND	10	20	08/31/2013 11:15
1,2-Dichloroethane (1,2-DCA)	ND	10	20	08/31/2013 11:15
Diisopropyl ether (DIPE)	ND	10	20	08/31/2013 11:15
Ethyl tert-butyl ether (ETBE)	ND	10	20	08/31/2013 11:15
Methyl-t-butyl ether (MTBE)	ND	10	20	08/31/2013 11:15

Surrogates	REC (%)	Limits	Date Analyzed
dibromofluoromethane	101	70-130	08/31/2013 11:15

(Cont.)



Analytical Report

Client: Allterra Environmental
Project: #160 Holmes Street Livermore CA
Date Received: 8/28/13 10:51
Date Prepared: 8/31/13-9/3/13

WorkOrder: 1308949
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L

Oxygenated Volatile Organics + EDB and 1,2-DCA by P&T and GC/MS

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
EW-1	1308949-004C	Water	08/24/2013 11:40	GC28	81250
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
tert-Amyl methyl ether (TAME)	ND		25	50	09/03/2013 15:43
t-Butyl alcohol (TBA)	4500		100	50	09/03/2013 15:43
1,2-Dibromoethane (EDB)	ND		25	50	09/03/2013 15:43
1,2-Dichloroethane (1,2-DCA)	ND		25	50	09/03/2013 15:43
Diisopropyl ether (DIPE)	ND		25	50	09/03/2013 15:43
Ethyl tert-butyl ether (ETBE)	ND		25	50	09/03/2013 15:43
Methyl-t-butyl ether (MTBE)	35		25	50	09/03/2013 15:43
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>	Analytical Comments: b1	
dibromofluoromethane	99		70-130		09/03/2013 15:43
EW-3	1308949-005C	Water	08/24/2013 13:40	GC4	81250
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
tert-Amyl methyl ether (TAME)	ND		100	200	09/03/2013 20:04
t-Butyl alcohol (TBA)	16,000		400	200	09/03/2013 20:04
1,2-Dibromoethane (EDB)	ND		100	200	09/03/2013 20:04
1,2-Dichloroethane (1,2-DCA)	ND		100	200	09/03/2013 20:04
Diisopropyl ether (DIPE)	ND		100	200	09/03/2013 20:04
Ethyl tert-butyl ether (ETBE)	ND		100	200	09/03/2013 20:04
Methyl-t-butyl ether (MTBE)	4300		100	200	09/03/2013 20:04
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
dibromofluoromethane	92		70-130		09/03/2013 20:04
EW-3B	1308949-006C	Water	08/24/2013 16:00	GC4	81250
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
tert-Amyl methyl ether (TAME)	ND		100	200	09/03/2013 20:44
t-Butyl alcohol (TBA)	16,000		400	200	09/03/2013 20:44
1,2-Dibromoethane (EDB)	ND		100	200	09/03/2013 20:44
1,2-Dichloroethane (1,2-DCA)	ND		100	200	09/03/2013 20:44
Diisopropyl ether (DIPE)	ND		100	200	09/03/2013 20:44
Ethyl tert-butyl ether (ETBE)	ND		100	200	09/03/2013 20:44
Methyl-t-butyl ether (MTBE)	ND		100	200	09/03/2013 20:44
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>	Analytical Comments: b1	
dibromofluoromethane	92		70-130		09/03/2013 20:44



Analytical Report

Client: Allterra Environmental
Project: #160 Holmes Street Livermore CA
Date Received: 8/28/13 10:51
Date Prepared: 8/29/13-9/5/13

WorkOrder: 1308949
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
Unit: µg/L

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
MW-1B	1308949-001A	Water	08/24/2013 12:30	GC3	81147

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	50	1	08/29/2013 00:30
MTBE	ND	5.0	1	08/29/2013 00:30
Benzene	ND	0.50	1	08/29/2013 00:30
Toluene	ND	0.50	1	08/29/2013 00:30
Ethylbenzene	ND	0.50	1	08/29/2013 00:30
Xylenes	ND	0.50	1	08/29/2013 00:30
Surrogates	REC (%)	Limits		
aaa-TFT	105	70-130		08/29/2013 00:30

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
MW-7A	1308949-002A	Water	08/26/2013 15:40	GC3	81147

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	270	50	1	08/29/2013 00:59
MTBE	ND	5.0	1	08/29/2013 00:59
Benzene	ND	0.50	1	08/29/2013 00:59
Toluene	5.5	0.50	1	08/29/2013 00:59
Ethylbenzene	3.8	0.50	1	08/29/2013 00:59
Xylenes	ND	0.50	1	08/29/2013 00:59
Surrogates	REC (%)	Qualifiers	Limits	Analytical Comments: d1,c4
aaa-TFT	150	S	70-130	08/29/2013 00:59

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
MW-7B	1308949-003A	Water	08/26/2013 12:40	GC3	81147

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	50	1	09/05/2013 09:44
MTBE	ND	5.0	1	09/05/2013 09:44
Benzene	ND	0.50	1	09/05/2013 09:44
Toluene	ND	0.50	1	09/05/2013 09:44
Ethylbenzene	ND	0.50	1	09/05/2013 09:44
Xylenes	ND	0.50	1	09/05/2013 09:44
Surrogates	REC (%)	Limits		
aaa-TFT	112	70-130		09/05/2013 09:44

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Analytical Report

Client: Allterra Environmental
Project: #160 Holmes Street Livermore CA
Date Received: 8/28/13 10:51
Date Prepared: 8/29/13-9/5/13

WorkOrder: 1308949
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
Unit: µg/L

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
EW-1	1308949-004A	Water	08/24/2013 11:40	GC3	81147
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH(g)	ND		50	1	08/29/2013 02:28
MTBE	43		5.0	1	08/29/2013 02:28
Benzene	ND		0.50	1	08/29/2013 02:28
Toluene	ND		0.50	1	08/29/2013 02:28
Ethylbenzene	ND		0.50	1	08/29/2013 02:28
Xylenes	ND		0.50	1	08/29/2013 02:28
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>	Analytical Comments: b1	
aaa-TFT	100		70-130		08/29/2013 02:28
EW-3	1308949-005A	Water	08/24/2013 13:40	GC7	81296
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH(g)	510		50	1	09/03/2013 19:39
MTBE	4100		500	100	09/04/2013 20:48
Benzene	2.0		0.50	1	09/03/2013 19:39
Toluene	1.1		0.50	1	09/03/2013 19:39
Ethylbenzene	1.6		0.50	1	09/03/2013 19:39
Xylenes	15		0.50	1	09/03/2013 19:39
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>	Analytical Comments: d1	
aaa-TFT	89		70-130		09/03/2013 19:39
EW-3B	1308949-006A	Water	08/24/2013 16:00	GC3	81296
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH(g)	84		50	1	09/05/2013 06:41
MTBE	22		5.0	1	09/05/2013 06:41
Benzene	0.87		0.50	1	09/05/2013 06:41
Toluene	0.69		0.50	1	09/05/2013 06:41
Ethylbenzene	0.66		0.50	1	09/05/2013 06:41
Xylenes	1.8		0.50	1	09/05/2013 06:41
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>	Analytical Comments: d1,b1	
aaa-TFT	97		70-130		09/05/2013 06:41

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Analytical Report

Client: Allterra Environmental
Project: #160 Holmes Street Livermore CA
Date Received: 8/28/13 10:51
Date Prepared: 8/29/13-9/5/13

WorkOrder: 1308949
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
Unit: µg/L

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
MW-5A	1308949-007A	Water	08/24/2013 13:15	GC3	81147
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH(g)	ND		50	1	08/29/2013 02:58
MTBE	ND		5.0	1	08/29/2013 02:58
Benzene	ND		0.50	1	08/29/2013 02:58
Toluene	ND		0.50	1	08/29/2013 02:58
Ethylbenzene	ND		0.50	1	08/29/2013 02:58
Xylenes	ND		0.50	1	08/29/2013 02:58
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
aaa-TFT	101		70-130		08/29/2013 02:58
MW-5B	1308949-008A	Water	08/26/2013 10:45	GC3	81147
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH(g)	ND		50	1	08/29/2013 03:28
MTBE	ND		5.0	1	08/29/2013 03:28
Benzene	ND		0.50	1	08/29/2013 03:28
Toluene	ND		0.50	1	08/29/2013 03:28
Ethylbenzene	ND		0.50	1	08/29/2013 03:28
Xylenes	ND		0.50	1	08/29/2013 03:28
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
aaa-TFT	104		70-130		08/29/2013 03:28
MW-7C	1308949-009A	Water	08/24/2013 12:30	GC3	81147
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH(g)	ND		50	1	08/29/2013 03:57
MTBE	ND		5.0	1	08/29/2013 03:57
Benzene	ND		0.50	1	08/29/2013 03:57
Toluene	ND		0.50	1	08/29/2013 03:57
Ethylbenzene	ND		0.50	1	08/29/2013 03:57
Xylenes	ND		0.50	1	08/29/2013 03:57
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
aaa-TFT	102		70-130		08/29/2013 03:57

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Analytical Report

Client: Allterra Environmental
Project: #160 Holmes Street Livermore CA
Date Received: 8/28/13 10:51
Date Prepared: 8/29/13-9/5/13

WorkOrder: 1308949
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
Unit: µg/L

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
MW-8A	1308949-010A	Water	08/26/2013 14:00	GC3	81147

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	50	1	08/29/2013 04:56
MTBE	ND	5.0	1	08/29/2013 04:56
Benzene	ND	0.50	1	08/29/2013 04:56
Toluene	ND	0.50	1	08/29/2013 04:56
Ethylbenzene	ND	0.50	1	08/29/2013 04:56
Xylenes	ND	0.50	1	08/29/2013 04:56
Surrogates	REC (%)	Limits		
aaa-TFT	102	70-130		08/29/2013 04:56

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
MW-8B	1308949-011A	Water	08/26/2013 14:40	GC3	81147

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	50	1	08/29/2013 05:26
MTBE	ND	5.0	1	08/29/2013 05:26
Benzene	ND	0.50	1	08/29/2013 05:26
Toluene	ND	0.50	1	08/29/2013 05:26
Ethylbenzene	ND	0.50	1	08/29/2013 05:26
Xylenes	ND	0.50	1	08/29/2013 05:26
Surrogates	REC (%)	Limits		
aaa-TFT	102	70-130		08/29/2013 05:26

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
MW-9A	1308949-012A	Water	08/26/2013 15:10	GC3	81147

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	50	1	08/29/2013 07:54
MTBE	ND	5.0	1	08/29/2013 07:54
Benzene	ND	0.50	1	08/29/2013 07:54
Toluene	ND	0.50	1	08/29/2013 07:54
Ethylbenzene	ND	0.50	1	08/29/2013 07:54
Xylenes	ND	0.50	1	08/29/2013 07:54
Surrogates	REC (%)	Limits		
aaa-TFT	105	70-130		08/29/2013 07:54

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Analytical Report

Client: Allterra Environmental
Project: #160 Holmes Street Livermore CA
Date Received: 8/28/13 10:51
Date Prepared: 8/29/13-9/5/13

WorkOrder: 1308949
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
Unit: µg/L

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
MW-9B	1308949-013A	Water	08/26/2013 15:35	GC3	81147
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH(g)	ND		50	1	08/29/2013 08:24
MTBE	ND		5.0	1	08/29/2013 08:24
Benzene	ND		0.50	1	08/29/2013 08:24
Toluene	ND		0.50	1	08/29/2013 08:24
Ethylbenzene	ND		0.50	1	08/29/2013 08:24
Xylenes	ND		0.50	1	08/29/2013 08:24
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
aaa-TFT	103		70-130		08/29/2013 08:24
MW-6	1308949-014A	Water	08/26/2013 23:40	GC3	81152
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH(g)	ND		50	1	08/29/2013 20:03
MTBE	ND		5.0	1	08/29/2013 20:03
Benzene	ND		0.50	1	08/29/2013 20:03
Toluene	ND		0.50	1	08/29/2013 20:03
Ethylbenzene	ND		0.50	1	08/29/2013 20:03
Xylenes	ND		0.50	1	08/29/2013 20:03
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>	Analytical Comments: b1	
aaa-TFT	97		70-130		08/29/2013 20:03



Analytical Report

Client: Allterra Environmental
Project: #160 Holmes Street Livermore CA
Date Received: 8/28/13 10:51
Date Prepared: 8/28/13-9/4/13

WorkOrder: 1308949
Extraction Method: SW3510C
Analytical Method: SW8015B
Unit: µg/L

Total Extractable Petroleum Hydrocarbons

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
MW-1B	1308949-001B	Water	08/24/2013 12:30	GC6A	81096
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	110		50	1	09/04/2013 20:07
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>	Analytical Comments: e6	
C9	106		70-130		09/04/2013 20:07
MW-7A	1308949-002B	Water	08/26/2013 15:40	GC9b	81096
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	100		50	1	09/05/2013 10:57
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>	Analytical Comments: e4	
C9	94		70-130		09/05/2013 10:57
MW-7B	1308949-003B	Water	08/26/2013 12:40	GC9b	81096
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	ND		50	1	09/05/2013 12:10
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
C9	91		70-130		09/05/2013 12:10
EW-1	1308949-004B	Water	08/24/2013 11:40	GC9a	81324
<u>Analytes</u>	<u>Result</u>	<u>Qualifiers</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	72	H	50	1	09/05/2013 12:10
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>	Analytical Comments: e2,b1	
C9	84	H	70-130		09/05/2013 12:10
EW-3	1308949-005B	Water	08/24/2013 13:40	GC6B	81096
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	370		50	1	08/28/2013 20:33
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>	Analytical Comments: e7,e2	
C9	123		70-130		08/28/2013 20:33

(Cont.)



Analytical Report

Client: Allterra Environmental
Project: #160 Holmes Street Livermore CA
Date Received: 8/28/13 10:51
Date Prepared: 8/28/13-9/4/13

WorkOrder: 1308949
Extraction Method: SW3510C
Analytical Method: SW8015B
Unit: µg/L

Total Extractable Petroleum Hydrocarbons

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
EW-3B	1308949-006B	Water	08/24/2013 16:00	GC9a	81259
<u>Analytes</u>	<u>Result</u>	<u>Qualifiers</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	110	H	50	1	09/05/2013 13:20
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>	Analytical Comments: e4,e2,b1	
C9	83	H	70-130	09/05/2013 13:20	



Quality Control Report

Client: Allterra Environmental	WorkOrder: 1308949
Date Prepared: 8/29/13	BatchID: 81158
Date Analyzed: 8/29/13	Extraction Method: E218.6
Instrument: IC2	Analytical Method: E218.6
Matrix: Water	Unit: µg/L
Project: #160 Holmes Street Livermore CA	Sample ID: MB/LCS-81158 1308997-001AMS/MSD

QC SUMMARY REPORT FOR E218.6

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Hexachrome	ND	24.6	0.20	25	-	98.4	90-110

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	%RPD	RPD Limit
Hexachrome	26.7	26.86	25	2.1	98.2	98.9	90-110	0.597	10



Quality Control Report

Client: Allterra Environmental
Date Prepared: 8/30/13
Date Analyzed: 8/30/13
Instrument: GC28
Matrix: Water
Project: #160 Holmes Street Livermore CA

WorkOrder: 1308949
BatchID: 81238
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L
Sample ID: MB/LCS-81238
 1308925-001EMS/MSD

QC SUMMARY REPORT FOR SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acetone	ND	-	10	-	-	-	-
tert-Amyl methyl ether (TAME)	ND	20.25	0.50	20	-	101	70-130
Benzene	ND	19.52	0.50	20	-	97.6	70-130
Bromobenzene	ND	-	0.50	-	-	-	-
Bromochloromethane	ND	-	0.50	-	-	-	-
Bromodichloromethane	ND	-	0.50	-	-	-	-
Bromoform	ND	-	0.50	-	-	-	-
Bromomethane	ND	-	0.50	-	-	-	-
2-Butanone (MEK)	ND	-	2.0	-	-	-	-
t-Butyl alcohol (TBA)	ND	79.19	2.0	80	-	99	70-130
n-Butyl benzene	ND	-	0.50	-	-	-	-
sec-Butyl benzene	ND	-	0.50	-	-	-	-
tert-Butyl benzene	ND	-	0.50	-	-	-	-
Carbon Disulfide	ND	-	0.50	-	-	-	-
Carbon Tetrachloride	ND	-	0.50	-	-	-	-
Chlorobenzene	ND	19.62	0.50	20	-	98.1	70-130
Chloroethane	ND	-	0.50	-	-	-	-
Chloroform	ND	-	0.50	-	-	-	-
Chloromethane	ND	-	0.50	-	-	-	-
2-Chlorotoluene	ND	-	0.50	-	-	-	-
4-Chlorotoluene	ND	-	0.50	-	-	-	-
Dibromochloromethane	ND	-	0.50	-	-	-	-
1,2-Dibromo-3-chloropropane	ND	-	0.20	-	-	-	-
1,2-Dibromoethane (EDB)	ND	20.87	0.50	20	-	104	70-130
Dibromomethane	ND	-	0.50	-	-	-	-
1,2-Dichlorobenzene	ND	-	0.50	-	-	-	-
1,3-Dichlorobenzene	ND	-	0.50	-	-	-	-
1,4-Dichlorobenzene	ND	-	0.50	-	-	-	-
Dichlorodifluoromethane	ND	-	0.50	-	-	-	-
1,1-Dichloroethane	ND	-	0.50	-	-	-	-
1,2-Dichloroethane (1,2-DCA)	ND	19.01	0.50	20	-	95	70-130
1,1-Dichloroethene	ND	-	0.50	-	-	-	-
cis-1,2-Dichloroethene	ND	-	0.50	-	-	-	-
trans-1,2-Dichloroethene	ND	-	0.50	-	-	-	-
1,2-Dichloropropane	ND	-	0.50	-	-	-	-
1,3-Dichloropropane	ND	-	0.50	-	-	-	-
2,2-Dichloropropane	ND	-	0.50	-	-	-	-
1,1-Dichloropropene	ND	-	0.50	-	-	-	-
cis-1,3-Dichloropropene	ND	-	0.50	-	-	-	-

(Cont.)



Quality Control Report

Client: Allterra Environmental

WorkOrder: 1308949

Date Prepared: 8/30/13

BatchID: 81238

Date Analyzed: 8/30/13

Extraction Method: SW5030B

Instrument: GC28

Analytical Method: SW8260B

Matrix: Water

Unit: µg/L

Project: #160 Holmes Street Livermore CA

Sample ID: MB/LCS-81238

1308925-001EMS/MSD

QC SUMMARY REPORT FOR SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
trans-1,3-Dichloropropene	ND	-	0.50	-	-	-	-
Diisopropyl ether (DIPE)	ND	20.72	0.50	20	-	104	70-130
Ethylbenzene	ND	-	0.50	-	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	20.25	0.50	20	-	101	70-130
Freon 113	ND	-	10	-	-	-	-
Hexachlorobutadiene	ND	-	0.50	-	-	-	-
Hexachloroethane	ND	-	0.50	-	-	-	-
2-Hexanone	ND	-	0.50	-	-	-	-
Isopropylbenzene	ND	-	0.50	-	-	-	-
4-Isopropyl toluene	ND	-	0.50	-	-	-	-
Methyl-t-butyl ether (MTBE)	ND	19.25	0.50	20	-	96.3	70-130
Methylene chloride	ND	-	0.50	-	-	-	-
4-Methyl-2-pentanone (MIBK)	ND	-	0.50	-	-	-	-
Naphthalene	ND	-	0.50	-	-	-	-
n-Propyl benzene	ND	-	0.50	-	-	-	-
Styrene	ND	-	0.50	-	-	-	-
1,1,1,2-Tetrachloroethane	ND	-	0.50	-	-	-	-
1,1,2,2-Tetrachloroethane	ND	-	0.50	-	-	-	-
Tetrachloroethene	ND	-	0.50	-	-	-	-
Toluene	ND	19.66	0.50	20	-	98.1	70-130
1,2,3-Trichlorobenzene	ND	-	0.50	-	-	-	-
1,2,4-Trichlorobenzene	ND	-	0.50	-	-	-	-
1,1,1-Trichloroethane	ND	-	0.50	-	-	-	-
1,1,2-Trichloroethane	ND	-	0.50	-	-	-	-
Trichloroethene	ND	19.74	0.50	20	-	98.7	70-130
Trichlorofluoromethane	ND	-	0.50	-	-	-	-
1,2,3-Trichloropropane	ND	-	0.50	-	-	-	-
1,2,4-Trimethylbenzene	ND	-	0.50	-	-	-	-
1,3,5-Trimethylbenzene	ND	-	0.50	-	-	-	-
Vinyl Chloride	ND	-	0.50	-	-	-	-
Xylenes, Total	ND	-	0.50	-	-	-	-

Surrogate Recovery

dibromofluoromethane	25.55	25.4		25	102	102	70-130
toluene-d8	23.85	24.18		25	95	97	70-130
4-BFB	2.385	2.442		2.5	95	98	70-130

(Cont.)



Quality Control Report

Client: Allterra Environmental

WorkOrder: 1308949

Date Prepared: 8/30/13

BatchID: 81238

Date Analyzed: 8/30/13

Extraction Method: SW5030B

Instrument: GC28

Analytical Method: SW8260B

Matrix: Water

Unit: µg/L

Project: #160 Holmes Street Livermore CA

Sample ID: MB/LCS-81238

1308925-001EMS/MSD

QC SUMMARY REPORT FOR SW8260B

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
tert-Amyl methyl ether (TAME)	18.45	19.26	20	ND	92.3	96.3	70-130	4.31	20
Benzene	18.99	17.95	20	ND	94.4	89.2	70-130	5.64	20
t-Butyl alcohol (TBA)	75.23	81.91	80	ND	92.5	101	70-130	8.50	20
Chlorobenzene	19.09	18.47	20	ND	95.4	92.4	70-130	3.28	20
1,2-Dibromoethane (EDB)	19.89	20.6	20	ND	99.4	103	70-130	3.55	20
1,2-Dichloroethane (1,2-DCA)	17.26	17.84	20	ND	86.3	89.2	70-130	3.27	20
Diisopropyl ether (DIPE)	19.18	19.05	20	ND	95.9	95.3	70-130	0.647	20
Ethyl tert-butyl ether (ETBE)	18.71	19.25	20	ND	93.5	96.3	70-130	2.87	20
Methyl-t-butyl ether (MTBE)	17.7	18.87	20	ND	88.5	94.3	70-130	6.37	20
Toluene	19.41	18.38	20	ND	96.4	91.3	70-130	5.45	20
Trichloroethene	18.81	17.92	20	ND	94.1	89.6	70-130	4.88	20
Surrogate Recovery									
dibromofluoromethane	24.88	24.86	25	99	100	99	70-130	0.0707	20
toluene-d8	24.6	24.38	25	99	98	98	70-130	0	20
4-BFB	2.275	2.334	2.5	98	91	93	70-130	2.55	20

(Cont.)



Quality Control Report

Client: Allterra Environmental
Date Prepared: 8/31/13
Date Analyzed: 8/30/13
Instrument: GC4
Matrix: Water
Project: #160 Holmes Street Livermore CA

WorkOrder: 1308949
BatchID: 81250
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L
Sample ID: MB/LCS-81250
 1308990-002BMS/MSD

QC SUMMARY REPORT FOR SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acetone	ND	-	10	-	-	-	-
tert-Amyl methyl ether (TAME)	ND	21.03	0.50	20	-	105	70-130
Benzene	ND	18.76	0.50	20	-	93.8	70-130
Bromobenzene	ND	-	0.50	-	-	-	-
Bromochloromethane	ND	-	0.50	-	-	-	-
Bromodichloromethane	ND	-	0.50	-	-	-	-
Bromoform	ND	-	0.50	-	-	-	-
Bromomethane	ND	-	0.50	-	-	-	-
2-Butanone (MEK)	ND	-	2.0	-	-	-	-
t-Butyl alcohol (TBA)	ND	86.06	2.0	80	-	108	70-130
n-Butyl benzene	ND	-	0.50	-	-	-	-
sec-Butyl benzene	ND	-	0.50	-	-	-	-
tert-Butyl benzene	ND	-	0.50	-	-	-	-
Carbon Disulfide	ND	-	0.50	-	-	-	-
Carbon Tetrachloride	ND	-	0.50	-	-	-	-
Chlorobenzene	ND	18.47	0.50	20	-	92.3	70-130
Chloroethane	ND	-	0.50	-	-	-	-
Chloroform	ND	-	0.50	-	-	-	-
Chloromethane	ND	-	0.50	-	-	-	-
2-Chlorotoluene	ND	-	0.50	-	-	-	-
4-Chlorotoluene	ND	-	0.50	-	-	-	-
Dibromochloromethane	ND	-	0.50	-	-	-	-
1,2-Dibromo-3-chloropropane	ND	-	0.20	-	-	-	-
1,2-Dibromoethane (EDB)	ND	22.92	0.50	20	-	115	70-130
Dibromomethane	ND	-	0.50	-	-	-	-
1,2-Dichlorobenzene	ND	-	0.50	-	-	-	-
1,3-Dichlorobenzene	ND	-	0.50	-	-	-	-
1,4-Dichlorobenzene	ND	-	0.50	-	-	-	-
Dichlorodifluoromethane	ND	-	0.50	-	-	-	-
1,1-Dichloroethane	ND	-	0.50	-	-	-	-
1,2-Dichloroethane (1,2-DCA)	ND	18.95	0.50	20	-	94.8	70-130
1,1-Dichloroethene	ND	-	0.50	-	-	-	-
cis-1,2-Dichloroethene	ND	-	0.50	-	-	-	-
trans-1,2-Dichloroethene	ND	-	0.50	-	-	-	-
1,2-Dichloropropane	ND	-	0.50	-	-	-	-
1,3-Dichloropropane	ND	-	0.50	-	-	-	-
2,2-Dichloropropane	ND	-	0.50	-	-	-	-
1,1-Dichloropropene	ND	-	0.50	-	-	-	-
cis-1,3-Dichloropropene	ND	-	0.50	-	-	-	-

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Quality Control Report

Client: Allterra Environmental
Date Prepared: 8/31/13
Date Analyzed: 8/30/13
Instrument: GC4
Matrix: Water
Project: #160 Holmes Street Livermore CA

WorkOrder: 1308949
BatchID: 81250
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L
Sample ID: MB/LCS-81250
 1308990-002BMS/MSD

QC SUMMARY REPORT FOR SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
trans-1,3-Dichloropropene	ND	-	0.50	-	-	-	-
Diisopropyl ether (DIPE)	ND	18.02	0.50	20	-	90.1	70-130
Ethylbenzene	ND	-	0.50	-	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	19.78	0.50	20	-	98.9	70-130
Freon 113	ND	-	10	-	-	-	-
Hexachlorobutadiene	ND	-	0.50	-	-	-	-
Hexachloroethane	ND	-	0.50	-	-	-	-
2-Hexanone	ND	-	0.50	-	-	-	-
Isopropylbenzene	ND	-	0.50	-	-	-	-
4-Isopropyl toluene	ND	-	0.50	-	-	-	-
Methyl-t-butyl ether (MTBE)	ND	21.01	0.50	20	-	105	70-130
Methylene chloride	ND	-	0.50	-	-	-	-
4-Methyl-2-pentanone (MIBK)	ND	-	0.50	-	-	-	-
Naphthalene	ND	-	0.50	-	-	-	-
n-Propyl benzene	ND	-	0.50	-	-	-	-
Styrene	ND	-	0.50	-	-	-	-
1,1,1,2-Tetrachloroethane	ND	-	0.50	-	-	-	-
1,1,2,2-Tetrachloroethane	ND	-	0.50	-	-	-	-
Tetrachloroethene	ND	-	0.50	-	-	-	-
Toluene	ND	18.81	0.50	20	-	93.8	70-130
1,2,3-Trichlorobenzene	ND	-	0.50	-	-	-	-
1,2,4-Trichlorobenzene	ND	-	0.50	-	-	-	-
1,1,1-Trichloroethane	ND	-	0.50	-	-	-	-
1,1,2-Trichloroethane	ND	-	0.50	-	-	-	-
Trichloroethene	ND	17.89	0.50	20	-	89.5	70-130
Trichlorofluoromethane	ND	-	0.50	-	-	-	-
1,2,3-Trichloropropane	ND	-	0.50	-	-	-	-
1,2,4-Trimethylbenzene	ND	-	0.50	-	-	-	-
1,3,5-Trimethylbenzene	ND	-	0.50	-	-	-	-
Vinyl Chloride	ND	-	0.50	-	-	-	-
Xylenes, Total	ND	-	0.50	-	-	-	-

Surrogate Recovery

dibromofluoromethane	23.29	24.02		25	93	96	70-130
toluene-d8	26.9	26.32		25	108	105	70-130
4-BFB	2.614	2.583		2.5	105	103	70-130

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Quality Control Report

Client: Allterra Environmental
Date Prepared: 8/31/13
Date Analyzed: 8/30/13
Instrument: GC4
Matrix: Water
Project: #160 Holmes Street Livermore CA

WorkOrder: 1308949
BatchID: 81250
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L
Sample ID: MB/LCS-81250
 1308990-002BMS/MSD

QC SUMMARY REPORT FOR SW8260B

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
tert-Amyl methyl ether (TAME)	22.28	22.47	20	ND	111	112	70-130	0.867	20
Benzene	19.06	19.75	20	ND	95.3	98.7	70-130	3.55	20
t-Butyl alcohol (TBA)	85.7	82.48	80	ND	107	103	70-130	3.83	20
Chlorobenzene	18.85	19.35	20	ND	94.3	96.8	70-130	2.62	20
1,2-Dibromoethane (EDB)	23.02	22.8	20	ND	115	114	70-130	0.980	20
1,2-Dichloroethane (1,2-DCA)	19.07	19.48	20	ND	95.3	97.4	70-130	2.16	20
Diisopropyl ether (DIPE)	18.18	18.92	20	ND	90.9	94.6	70-130	3.99	20
Ethyl tert-butyl ether (ETBE)	20.09	20.47	20	ND	100	102	70-130	1.85	20
Methyl-t-butyl ether (MTBE)	21.27	21.43	20	ND	106	107	70-130	0.735	20
Toluene	19.25	19.56	20	ND	96	97.6	70-130	1.60	20
Trichloroethene	18.36	18.88	20	ND	91.8	94.4	70-130	2.78	20
Surrogate Recovery									
dibromofluoromethane	24.16	23.85	25	89	97	95	70-130	1.28	20
toluene-d8	26.31	25.96	25	108	105	104	70-130	1.33	20
4-BFB	2.638	2.503	2.5	102	106	100	70-130	5.22	20



Quality Control Report

Client: Allterra Environmental	WorkOrder: 1308949
Date Prepared: 8/28/13	BatchID: 81147
Date Analyzed: 8/28/13	Extraction Method: SW5030B
Instrument: GC3	Analytical Method: SW8021B/8015Bm
Matrix: Water	Unit: µg/L
Project: #160 Holmes Street Livermore CA	Sample ID: MB/LCS-81147 1308949-010AMS/MSD

QC SUMMARY REPORT FOR SW8021B/8015Bm

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH(btex)	ND	59.24	40	60	-	98.7	70-130
MTBE	ND	11.1	5.0	10	-	107	70-130
Benzene	ND	9.878	0.50	10	-	98.8	70-130
Toluene	ND	10.11	0.50	10	-	101	70-130
Ethylbenzene	ND	10.09	0.50	10	-	100	70-130
Xylenes	ND	30.66	0.50	30	-	101	70-130

Surrogate Recovery

aaa-TFT	10.09	9.826		10	101	98	70-130
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Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH(btex)	57.74	57.1	60	ND	96.2	95.2	70-130	1.11	20
MTBE	10.71	11.02	10	ND	102	105	70-130	2.84	20
Benzene	9.789	10.45	10	ND	97.9	105	70-130	6.55	20
Toluene	9.973	10.61	10	ND	99.7	106	70-130	6.21	20
Ethylbenzene	9.9	10.52	10	ND	99	105	70-130	6.05	20
Xylenes	29.94	31.81	30	ND	99.8	106	70-130	6.07	20

Surrogate Recovery

aaa-TFT	10.06	9.964	10	102	101	100	70-130	0.936	20
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Quality Control Report

Client: Allterra Environmental	WorkOrder: 1308949
Date Prepared: 8/29/13	BatchID: 81152
Date Analyzed: 8/29/13	Extraction Method: SW5030B
Instrument: GC3	Analytical Method: SW8021B/8015Bm
Matrix: Water	Unit: µg/L
Project: #160 Holmes Street Livermore CA	Sample ID: MB/LCS-81152 1308974-001AMS/MSD

QC SUMMARY REPORT FOR SW8021B/8015Bm

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH(btex)	ND	57.05	40	60	-	95.1	70-130
MTBE	ND	10.22	5.0	10	-	102	70-130
Benzene	ND	9.456	0.50	10	-	94.6	70-130
Toluene	ND	9.637	0.50	10	-	96.4	70-130
Ethylbenzene	ND	9.644	0.50	10	-	96.4	70-130
Xylenes	ND	29.36	0.50	30	-	97.9	70-130

Surrogate Recovery

aaa-TFT	10.31	9.807		10	103	98	70-130
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Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH(btex)	57.72	56.09	60	ND	96.2	93.5	70-130	2.87	20
MTBE	10.57	10.3	10	ND	106	103	70-130	2.66	20
Benzene	9.622	9.328	10	ND	96.2	93.3	70-130	3.10	20
Toluene	9.757	9.432	10	ND	97.6	94.3	70-130	3.39	20
Ethylbenzene	9.755	9.478	10	ND	97.6	94.8	70-130	2.88	20
Xylenes	29.72	28.78	30	ND	99.1	95.9	70-130	3.23	20

Surrogate Recovery

aaa-TFT	9.839	9.829	10	98	98	98	70-130	0	20
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Quality Control Report

Client: Allterra Environmental	WorkOrder: 1308949
Date Prepared: 9/3/13	BatchID: 81296
Date Analyzed: 9/4/13	Extraction Method: SW5030B
Instrument: GC7	Analytical Method: SW8021B/8015Bm
Matrix: Water	Unit: µg/L
Project: #160 Holmes Street Livermore CA	Sample ID: MB/LCS-81296 1308925-001AMS/MSD

QC SUMMARY REPORT FOR SW8021B/8015Bm

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH(btex)	ND	54.37	40	60	-	90.6	70-130
MTBE	ND	8.935	5.0	10	-	89.4	70-130
Benzene	ND	10.23	0.50	10	-	102	70-130
Toluene	ND	10.69	0.50	10	-	107	70-130
Ethylbenzene	ND	10.68	0.50	10	-	107	70-130
Xylenes	ND	34.06	0.50	30	-	114	70-130

Surrogate Recovery

aaa-TFT	9.22	8.387		10	92	84	70-130
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Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH(btex)	52.06	57.91	60	ND	86.8	96.5	70-130	10.6	20
MTBE	7.953	8.365	10	ND	79.5	83.6	70-130	5.04	20
Benzene	9.764	10.31	10	ND	96.7	102	70-130	5.44	20
Toluene	9.977	10.69	10	ND	98.3	105	70-130	6.90	20
Ethylbenzene	10.08	10.56	10	ND	101	106	70-130	4.69	20
Xylenes	31.53	32.44	30	ND	105	108	70-130	2.85	20

Surrogate Recovery

aaa-TFT	8.863	8.737	10	104	89	87	70-130	1.43	20
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Quality Control Report

Client: Allterra Environmental
Date Prepared: 8/28/13
Date Analyzed: 8/28/13
Instrument: GC11B
Matrix: Water
Project: #160 Holmes Street Livermore CA

WorkOrder: 1308949
BatchID: 81096
Extraction Method: SW3510C
Analytical Method: SW8015B
Unit: µg/L
Sample ID: MB/LCS-81096

QC SUMMARY REPORT FOR SW8015B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH-Diesel (C10-C23)	ND	955.7	50	1000	-	95.6	70-130
Surrogate Recovery							
C9	535	536.6		625	86	86	70-130



Quality Control Report

Client: Allterra Environmental
Date Prepared: 9/3/13
Date Analyzed: 9/4/13
Instrument: GC6A, GC9b
Matrix: Water
Project: #160 Holmes Street Livermore CA

WorkOrder: 1308949
BatchID: 81259
Extraction Method: SW3510C
Analytical Method: SW8015B
Unit: µg/L
Sample ID: MB/LCS-81259

QC SUMMARY REPORT FOR SW8015B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH-Diesel (C10-C23)	ND	1277	50	1000	-	128	70-130
Surrogate Recovery							
C9	610.3	623.2		625	98	100	70-130



Quality Control Report

Client: Allterra Environmental

WorkOrder: 1308949

Date Prepared: 9/4/13

BatchID: 81324

Date Analyzed: 9/5/13

Extraction Method: SW3510C

Instrument: GC6B

Analytical Method: SW8015B

Matrix: Water

Unit: µg/L

Project: #160 Holmes Street Livermore CA

Sample ID: MB/LCS-81324

QC SUMMARY REPORT FOR SW8015B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH-Diesel (C10-C23)	ND	959.3	50	1000	-	95.9	70-130
Surrogate Recovery							
C9	661.3	637.5		625	106	102	70-130



CHAIN-OF-CUSTODY RECORD

WorkOrder: 1308949

ClientCode: ATRS

WaterTrax
 WriteOn
 EDF
 Excel
 EQUIS
 Email
 HardCopy
 ThirdParty
 J-flag

Report to:
 James Allen
 Allterra Environmental
 849 Almar Ave, Ste. C #281
 Santa Cruz, CA 95060
 831-425-2608 FAX: 831-425-2609

Email: allterraenvironmental@yahoo.com; micah
cc:
PO:
ProjectNo: #160 Holmes Street Livermore CA

Bill to:
 Accounts Payable
 Allterra Environmental
 849 Almar Ave, Ste. C #281
 Santa Cruz, CA 95060
 micah@allterraenv.com

Requested TAT: **5 days**

Date Received: **08/28/2013**

Date Printed: **08/28/2013**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)												
					1	2	3	4	5	6	7	8	9	10	11	12	
1308949-001	MW-1B	Water	8/24/2013 12:30	<input type="checkbox"/>	D	C	A	A	B								
1308949-002	MW-7A	Water	8/26/2013 15:40	<input type="checkbox"/>	D	C	A		B								
1308949-003	MW-7B	Water	8/26/2013 12:40	<input type="checkbox"/>	D	C	A		B								
1308949-004	EW-1	Water	8/24/2013 11:40	<input type="checkbox"/>	D	C	A		B								
1308949-005	EW-3	Water	8/24/2013 13:40	<input type="checkbox"/>	D	C	A		B								
1308949-006	EW-3B	Water	8/24/2013 16:00	<input type="checkbox"/>	D	C	A		B								
1308949-007	MW-5A	Water	8/24/2013 13:15	<input type="checkbox"/>			A										
1308949-008	MW-5B	Water	8/26/2013 10:45	<input type="checkbox"/>			A										
1308949-009	MW-7C	Water	8/24/2013 12:30	<input type="checkbox"/>			A										
1308949-010	MW-8A	Water	8/26/2013 14:00	<input type="checkbox"/>			A										
1308949-011	MW-8B	Water	8/26/2013 14:40	<input type="checkbox"/>			A										
1308949-012	MW-9A	Water	8/26/2013 15:10	<input type="checkbox"/>			A										
1308949-013	MW-9B	Water	8/26/2013 15:35	<input type="checkbox"/>			A										
1308949-014	MW-6	Water	8/26/2013 23:40	<input type="checkbox"/>			A										

Test Legend:

1	218_6_W	2	5-OXYS+PBSCV_W	3	G-MBTEX_W	4	PREDF REPORT	5	TPH(D)_W
6		7		8		9		10	
11		12							

Prepared by: Elisa Venegas

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days). Hazardous samples will be returned to client or disposed of at client expense.

ATR 1308944



849 Almar Avenue, Suite C, #281
 Santa Cruz, California 95060
 Website: www.allterraenv.com
 Phone: (831) 425-2608 Facsimile: (831) 425-2609

Report and Bill to: Allterra Environmental, Inc.

Project Number: 160

Project Location: 160 Holmes Street Livermore CA

Project Name:

Sampler Signature: *[Signature]* for Joey Helfield

Chain of Custody Record

Turn Around Time (circle one) RUSH 24HR 48HR 72HR 5 Day

Field Point Name Sample ID	Sample Collection		Sample Containers		Matrix					Preservation				TPHg/ BTEX/ MTBE (EPA 8015/8021)	BTEX (EPA 8020)	TPHd (EPA 8015)	5-fuel oxy (EPA 8260)	Ethanol and Methanol (EPA 8260)	Lead Scavengers (8260)	Total HVOCs (EPA 8260)	pH, BOD, Fixed Dissolved Solids	Chloride, Sulfate, Boron, Sulfate	Nitrite, Nitrate, Total Kjeldahl Nitrogen, and Total Nitrogen (as N)	Priority Pollutants (Inorganics)	Perchlorate	Hexachrome	Total Haloacetic Acids	EDF required
	Date	Time	Number of Containers	Container Type	Air	Water	Soil	Sludge	Other	Ice	HCl	HNO ₃	Other															
MW-1A			6	(6) Various		X				X	X	X		X	X	X									X	X		
MW-1B	8/24/13	12:30 PM	6	(6) Various		X				X	X	X		X	X	X									X	X		
MW-7A	8/26/13	3:40 PM	6	(6) Various		X				X	X	X		X	X	X									X	X		
MW-7B	8/26/13	12:40 PM	6	(6) Various		X				X	X	X		X	X	X									X	X		
EW-1	8/24/13	11:40 AM	6	(6) Various		X				X	X	X		X	X	X									X	X		
EW-3	8/24/13	4:40 PM	6	(6) Various		X				X	X	X		X	X	X									X	X		
EW-3B	8/24/13	4:00 PM	6	(6) Various		X				X	X	X		X	X	X									X	X		
MW-5A	8/24/13	1:15 PM	3	VOA		X				X	X			X												X		
MW-5B	8/26/13	10:45 AM	3	VOA		X				X	X			X												X		
MW-7C	8/24/13	12:30 PM	3	VOA		X				X	X			X												X		
MW-8A	8/26/13	2:00 PM	3	VOA		X				X	X			X												X		
MW-8B	8/26/13	2:40 PM	3	VOA		X				X	X			X												X		
MW-9A	8/26/13	3:10 PM	3	VOA		X				X	X			X												X		
MW-9B	8/26/13	3:35 PM	3	VOA		X				X	X			X												X		
MW-6	8/26/13	11:40 PM	3	VOA		X				X	X			X												X		

Sampled By: *Joey Helfield* Date: 8/26/13 Time: Relinquished By: *[Signature]*

Received By: Date: Time: Received By:

Received By: Date: 8/27 Time: 9:30 Received By: *[Signature]*

Comments: No MW-1A sample collected 15.2°C
 5 VOAs collected for MW-7C
 still just test for Gas BTEX MTBE only

ICE / t. 15.2
 GOOD CONDITION ✓
 HEAD SPACE ABSENT ✓
 DECHLORINATED IN LAB ✓
 PRESERVATION ✓
 APPROPRIATE CONTAINERS ✓
 PRESERVED IN LAB ✓
 VOAS | O&G | METALS | OTHER



Sample Receipt Checklist

Client Name: **Alterra Environmental** Date and Time Received: **8/28/2013 10:51:14 AM**
 Project Name: **#160 Holmes Street Livermore CA** LogIn Reviewed by: **Elisa Venegas**
 WorkOrder N°: **1308949** Matrix: Water Carrier: Golden State Overnight

Chain of Custody (COC) Information

Chain of custody present? Yes No
 Chain of custody signed when relinquished and received? Yes No
 Chain of custody agrees with sample labels? Yes No
 Sample IDs noted by Client on COC? Yes No
 Date and Time of collection noted by Client on COC? Yes No
 Sampler's name noted on COC? Yes No

Sample Receipt Information

Custody seals intact on shipping container/cooler? Yes No NA
 Shipping container/cooler in good condition? Yes No
 Samples in proper containers/bottles? Yes No
 Sample containers intact? Yes No
 Sufficient sample volume for indicated test? Yes No

Sample Preservation and Hold Time (HT) Information

All samples received within holding time? Yes No
 Container/Temp Blank temperature Cooler Temp: 15.2°C NA
 Water - VOA vials have zero headspace / no bubbles? Yes No No VOA vials submitted
 Sample labels checked for correct preservation? Yes No
 Metal - pH acceptable upon receipt (pH<2)? Yes No NA
 Samples Received on Ice? Yes No

(Ice Type: WET ICE)

* NOTE: If the "No" box is checked, see comments below.

 Comments: ice completely melted upon arrival



McC Campbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1308A07

Report Created for: Allterra Environmental
849 Almar Ave, Ste. C #281
Santa Cruz, CA 95060

Project Contact: James Allen
Project Name: #160 Holmes St., Livermore, CA
Project P.O.:

Project Received: 08/29/2013

Analytical Report reviewed & approved for release on 09/05/2013 by:

*Question about
your data?*

[Click here to email
McC Campbell](#)

Angela Rydelius,
Laboratory Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.





Glossary of Terms & Qualifier Definitions

Client: Allterra Environmental
Project: #160 Holmes St., Livermore, CA
WorkOrder: 1308A07

<u>Glossary Abbreviation</u>	<u>Description</u>
95% Interval	95% Confident Interval
DF	Dilution Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ND	Not detected at or above the indicated MDL or RL
NR	Analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix; or sample diluted due to high matrix or analyte content.
RL	Reporting Limit
RPD	Relative Percent Deviation
SPK Val	Spike Value
SPKRef Val	Spike Reference Value



Analytical Report

Client: Allterra Environmental
Project: #160 Holmes St., Livermore, CA
Date Received: 8/29/13 11:16
Date Prepared: 8/29/13

WorkOrder: 1308A07
Extraction Method: E218.6
Analytical Method: E218.6
Unit: µg/L

Hexachrome by IC

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
MW-1A	1308A07-001D	Water	08/28/2013 11:10	IC2	81159
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Hexachrome	ND		0.20	1	08/29/2013 18:38



Analytical Report

Client: Allterra Environmental
Project: #160 Holmes St., Livermore, CA
Date Received: 8/29/13 11:16
Date Prepared: 9/3/13

WorkOrder: 1308A07
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L

Oxygenated Volatile Organics + EDB and 1,2-DCA by P&T and GC/MS

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
MW-1A	1308A07-001B	Water	08/28/2013 11:10	GC10	81240
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
tert-Amyl methyl ether (TAME)	ND		100	200	09/03/2013 19:36
t-Butyl alcohol (TBA)	19,000		400	200	09/03/2013 19:36
1,2-Dibromoethane (EDB)	ND		100	200	09/03/2013 19:36
1,2-Dichloroethane (1,2-DCA)	ND		100	200	09/03/2013 19:36
Diisopropyl ether (DIPE)	ND		100	200	09/03/2013 19:36
Ethyl tert-butyl ether (ETBE)	ND		100	200	09/03/2013 19:36
Methyl-t-butyl ether (MTBE)	ND		100	200	09/03/2013 19:36
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
dibromofluoromethane	96		70-130		09/03/2013 19:36



Analytical Report

Client: Allterra Environmental
Project: #160 Holmes St., Livermore, CA
Date Received: 8/29/13 11:16
Date Prepared: 8/31/13

WorkOrder: 1308A07
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
Unit: µg/L

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
MW-1A	1308A07-001A	Water	08/28/2013 11:10	GC3	81237
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH(g)	ND		50	1	08/31/2013 09:40
MTBE	ND		5.0	1	08/31/2013 09:40
Benzene	ND		0.50	1	08/31/2013 09:40
Toluene	ND		0.50	1	08/31/2013 09:40
Ethylbenzene	ND		0.50	1	08/31/2013 09:40
Xylenes	ND		0.50	1	08/31/2013 09:40
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
aaa-TFT	102		70-130		08/31/2013 09:40



Analytical Report

Client: Allterra Environmental
Project: #160 Holmes St., Livermore, CA
Date Received: 8/29/13 11:16
Date Prepared: 8/29/13

WorkOrder: 1308A07
Extraction Method: SW3510C
Analytical Method: SW8015B
Unit: µg/L

Total Extractable Petroleum Hydrocarbons

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
MW-1A	1308A07-001C	Water	08/28/2013 11:10	GC6B	81096
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	ND		50	1	08/31/2013 14:43
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
C9	97		70-130		08/31/2013 14:43



Quality Control Report

Client: Allterra Environmental
Date Prepared: 8/29/13
Date Analyzed: 8/29/13
Instrument: IC2
Matrix: Water
Project: #160 Holmes St., Livermore, CA

WorkOrder: 1308A07
BatchID: 81159
Extraction Method: E218.6
Analytical Method: E218.6
Unit: µg/L
Sample ID: MB/LCS-81159
 1308A07-001DMS/MSD

QC SUMMARY REPORT FOR E218.6

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Hexachrome	ND	26.38	0.20	25	-	106	90-110

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Hexachrome	26.43	25.94	25	ND	106	104	90-110	1.87	10



Quality Control Report

Client: Allterra Environmental
Date Prepared: 8/31/13
Date Analyzed: 8/31/13
Instrument: GC28
Matrix: Water
Project: #160 Holmes St., Livermore, CA

WorkOrder: 1308A07
BatchID: 81240
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L
Sample ID: MB/LCS-81240
 1308A08-003BMS/MSD

QC SUMMARY REPORT FOR SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acetone	ND	-	10	-	-	-	-
tert-Amyl methyl ether (TAME)	ND	19.87	0.50	20	-	99.3	70-130
Benzene	ND	18.42	0.50	20	-	92.1	70-130
Bromobenzene	ND	-	0.50	-	-	-	-
Bromochloromethane	ND	-	0.50	-	-	-	-
Bromodichloromethane	ND	-	0.50	-	-	-	-
Bromoform	ND	-	0.50	-	-	-	-
Bromomethane	ND	-	0.50	-	-	-	-
2-Butanone (MEK)	ND	-	2.0	-	-	-	-
t-Butyl alcohol (TBA)	ND	74.59	2.0	80	-	93.2	70-130
n-Butyl benzene	ND	-	0.50	-	-	-	-
sec-Butyl benzene	ND	-	0.50	-	-	-	-
tert-Butyl benzene	ND	-	0.50	-	-	-	-
Carbon Disulfide	ND	-	0.50	-	-	-	-
Carbon Tetrachloride	ND	-	0.50	-	-	-	-
Chlorobenzene	ND	18.83	0.50	20	-	94.2	70-130
Chloroethane	ND	-	0.50	-	-	-	-
Chloroform	ND	-	0.50	-	-	-	-
Chloromethane	ND	-	0.50	-	-	-	-
2-Chlorotoluene	ND	-	0.50	-	-	-	-
4-Chlorotoluene	ND	-	0.50	-	-	-	-
Dibromochloromethane	ND	-	0.50	-	-	-	-
1,2-Dibromo-3-chloropropane	ND	-	0.20	-	-	-	-
1,2-Dibromoethane (EDB)	ND	20.35	0.50	20	-	102	70-130
Dibromomethane	ND	-	0.50	-	-	-	-
1,2-Dichlorobenzene	ND	-	0.50	-	-	-	-
1,3-Dichlorobenzene	ND	-	0.50	-	-	-	-
1,4-Dichlorobenzene	ND	-	0.50	-	-	-	-
Dichlorodifluoromethane	ND	-	0.50	-	-	-	-
1,1-Dichloroethane	ND	-	0.50	-	-	-	-
1,2-Dichloroethane (1,2-DCA)	ND	17	0.50	20	-	85	70-130
1,1-Dichloroethene	ND	-	0.50	-	-	-	-
cis-1,2-Dichloroethene	ND	-	0.50	-	-	-	-
trans-1,2-Dichloroethene	ND	-	0.50	-	-	-	-
1,2-Dichloropropane	ND	-	0.50	-	-	-	-
1,3-Dichloropropane	ND	-	0.50	-	-	-	-
2,2-Dichloropropane	ND	-	0.50	-	-	-	-
1,1-Dichloropropene	ND	-	0.50	-	-	-	-
cis-1,3-Dichloropropene	ND	-	0.50	-	-	-	-

(Cont.)



Quality Control Report

Client: Allterra Environmental
Date Prepared: 8/31/13
Date Analyzed: 8/31/13
Instrument: GC28
Matrix: Water
Project: #160 Holmes St., Livermore, CA

WorkOrder: 1308A07
BatchID: 81240
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L
Sample ID: MB/LCS-81240
 1308A08-003BMS/MSD

QC SUMMARY REPORT FOR SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
trans-1,3-Dichloropropene	ND	-	0.50	-	-	-	-
Diisopropyl ether (DIPE)	ND	19.49	0.50	20	-	97.5	70-130
Ethylbenzene	ND	-	0.50	-	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	19.16	0.50	20	-	95.8	70-130
Freon 113	ND	-	10	-	-	-	-
Hexachlorobutadiene	ND	-	0.50	-	-	-	-
Hexachloroethane	ND	-	0.50	-	-	-	-
2-Hexanone	ND	-	0.50	-	-	-	-
Isopropylbenzene	ND	-	0.50	-	-	-	-
4-Isopropyl toluene	ND	-	0.50	-	-	-	-
Methyl-t-butyl ether (MTBE)	ND	18.03	0.50	20	-	90.1	70-130
Methylene chloride	ND	-	0.50	-	-	-	-
4-Methyl-2-pentanone (MIBK)	ND	-	0.50	-	-	-	-
Naphthalene	ND	-	0.50	-	-	-	-
n-Propyl benzene	ND	-	0.50	-	-	-	-
Styrene	ND	-	0.50	-	-	-	-
1,1,1,2-Tetrachloroethane	ND	-	0.50	-	-	-	-
1,1,2,2-Tetrachloroethane	ND	-	0.50	-	-	-	-
Tetrachloroethene	ND	-	0.50	-	-	-	-
Toluene	ND	18.7	0.50	20	-	93.5	70-130
1,2,3-Trichlorobenzene	ND	-	0.50	-	-	-	-
1,2,4-Trichlorobenzene	ND	-	0.50	-	-	-	-
1,1,1-Trichloroethane	ND	-	0.50	-	-	-	-
1,1,2-Trichloroethane	ND	-	0.50	-	-	-	-
Trichloroethene	ND	18.25	0.50	20	-	91.2	70-130
Trichlorofluoromethane	ND	-	0.50	-	-	-	-
1,2,3-Trichloropropane	ND	-	0.50	-	-	-	-
1,2,4-Trimethylbenzene	ND	-	0.50	-	-	-	-
1,3,5-Trimethylbenzene	ND	-	0.50	-	-	-	-
Vinyl Chloride	ND	-	0.50	-	-	-	-
Xylenes, Total	ND	-	0.50	-	-	-	-
Surrogate Recovery							
dibromofluoromethane	25.31	25.06		25	101	100	70-130
toluene-d8	24.6	-		25	98	-	-
4-BFB	2.412	-		2.5	96	-	-

(Cont.)



Quality Control Report

Client: Allterra Environmental
Date Prepared: 8/31/13
Date Analyzed: 8/31/13
Instrument: GC28
Matrix: Water
Project: #160 Holmes St., Livermore, CA

WorkOrder: 1308A07
BatchID: 81240
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L
Sample ID: MB/LCS-81240
 1308A08-003BMS/MSD

QC SUMMARY REPORT FOR SW8260B

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
tert-Amyl methyl ether (TAME)	19.51	19.83	20	ND	97.6	99.1	70-130	1.59	20
Benzene	17.62	18.29	20	ND	88.1	91.4	70-130	3.70	20
t-Butyl alcohol (TBA)	82.77	88.52	80	ND	103	111	70-130	6.72	20
Chlorobenzene	18.22	18.41	20	ND	91.1	92.1	70-130	1.04	20
1,2-Dibromoethane (EDB)	20.28	20.45	20	ND	101	102	70-130	0.836	20
1,2-Dichloroethane (1,2-DCA)	17.67	18.56	20	ND	88.3	92.8	70-130	4.90	20
Diisopropyl ether (DIPE)	19.07	19.66	20	ND	95.4	98.3	70-130	3.02	20
Ethyl tert-butyl ether (ETBE)	19.19	20	20	ND	96	100	70-130	4.12	20
Methyl-t-butyl ether (MTBE)	18.86	19.93	20	ND	92.5	97.8	70-130	5.50	20
Toluene	17.46	17.95	20	ND	87	89.5	70-130	2.80	20
Trichloroethene	17.77	18.26	20	ND	88.9	91.3	70-130	2.73	20
Surrogate Recovery									
dibromofluoromethane	25.26	26.08	25	103	101	104	70-130	3.18	20



Quality Control Report

Client: Allterra Environmental
Date Prepared: 8/30/13
Date Analyzed: 8/30/13
Instrument: GC3
Matrix: Water
Project: #160 Holmes St., Livermore, CA

WorkOrder: 1308A07
BatchID: 81237
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
Unit: µg/L
Sample ID: MB/LCS-81237
 1308A69-005AMS/MSD

QC SUMMARY REPORT FOR SW8021B/8015Bm

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH(btex)	ND	56.9	40	60	-	94.8	70-130
MTBE	ND	11.27	5.0	10	-	113	70-130
Benzene	ND	9.842	0.50	10	-	98.4	70-130
Toluene	ND	10.02	0.50	10	-	100	70-130
Ethylbenzene	ND	10.03	0.50	10	-	100	70-130
Xylenes	ND	30.53	0.50	30	-	102	70-130

Surrogate Recovery

aaa-TFT	10.24	9.834		10	102	98	70-130
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Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH(btex)	56.14	57.24	60	ND	93.6	95.4	70-130	1.93	20
MTBE	10.55	10.32	10	ND	105	103	70-130	2.16	20
Benzene	9.528	9.198	10	ND	95.3	92	70-130	3.53	20
Toluene	9.668	9.331	10	ND	96.7	93.3	70-130	3.54	20
Ethylbenzene	9.647	9.504	10	ND	96.5	95	70-130	1.49	20
Xylenes	29.43	28.87	30	ND	98.1	96.2	70-130	1.94	20

Surrogate Recovery

aaa-TFT	9.734	9.736	10	101	97	97	70-130	0	20
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Quality Control Report

Client: Allterra Environmental
Date Prepared: 8/28/13
Date Analyzed: 8/28/13
Instrument: GC11B
Matrix: Water
Project: #160 Holmes St., Livermore, CA

WorkOrder: 1308A07
BatchID: 81096
Extraction Method: SW3510C
Analytical Method: SW8015B
Unit: µg/L
Sample ID: MB/LCS-81096

QC SUMMARY REPORT FOR SW8015B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH-Diesel (C10-C23)	ND	955.7	50	1000	-	95.6	70-130
Surrogate Recovery							
C9	535	536.6		625	86	86	70-130



1534 Willow Pass Rd
 Pittsburg, CA 94565-1701
 (925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1308A07

ClientCode: ATRS

WaterTrax
 WriteOn
 EDF
 Excel
 EQuIS
 Email
 HardCopy
 ThirdParty
 J-flag

Report to:
 James Allen
 Allterra Environmental
 849 Almar Ave, Ste. C #281
 Santa Cruz, CA 95060
 831-425-2608 FAX: 831-425-2609

Email: allterraenvironmental@yahoo.com; micah
cc:
PO:
ProjectNo: #160 Holmes St., Livermore, CA

Bill to:
 Accounts Payable
 Allterra Environmental
 849 Almar Ave, Ste. C #281
 Santa Cruz, CA 95060
 micah@allterraenv.com

Requested TAT: 5 days

Date Received: 08/29/2013

Date Printed: 08/29/2013

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)												
					1	2	3	4	5	6	7	8	9	10	11	12	
1308A07-001	MW-1A	Water	8/28/2013 11:10	<input type="checkbox"/>	D	B	A	A	C								

Test Legend:

1	218_6_W	2	5-OXYS+PBSCV_W	3	G-MBTEX_W	4	PREFD REPORT	5	TPH(D)_W
6		7		8		9		10	
11		12							

Prepared by: _____

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days). Hazardous samples will be returned to client or disposed of at client expense.



Sample Receipt Checklist

Client Name: **Alterra Environmental** Date and Time Received: **8/29/2013 11:16:47 AM**
 Project Name: **#160 Holmes St., Livermore, CA** LogIn Reviewed by: **Elisa Venegas**
 WorkOrder N°: **1308A07** Matrix: Water Carrier: Golden State Overnight

Chain of Custody (COC) Information

Chain of custody present? Yes No
 Chain of custody signed when relinquished and received? Yes No
 Chain of custody agrees with sample labels? Yes No
 Sample IDs noted by Client on COC? Yes No
 Date and Time of collection noted by Client on COC? Yes No
 Sampler's name noted on COC? Yes No

Sample Receipt Information

Custody seals intact on shipping container/cooler? Yes No NA
 Shipping container/cooler in good condition? Yes No
 Samples in proper containers/bottles? Yes No
 Sample containers intact? Yes No
 Sufficient sample volume for indicated test? Yes No

Sample Preservation and Hold Time (HT) Information

All samples received within holding time? Yes No
 Container/Temp Blank temperature Cooler Temp: 12°C NA
 Water - VOA vials have zero headspace / no bubbles? Yes No No VOA vials submitted
 Sample labels checked for correct preservation? Yes No
 Metal - pH acceptable upon receipt (pH<2)? Yes No NA
 Samples Received on Ice? Yes No

(Ice Type: WET ICE)

* NOTE: If the "No" box is checked, see comments below.

 Comments: