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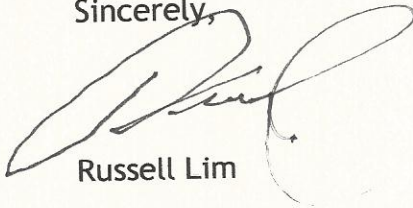
Alameda County Health Care Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502

Re: RO #479, Report 

I declare under penalty of perjury that to the best of my knowledge the information and/or recommendations contained in the attached report is/are true and correct.

If you have further questions I may be reached at 925-381-3608.

Sincerely,



Russell Lim



Aqua Science Engineers, Inc. 1460 Washington Blvd, Suite A2011, Concord, CA 94521
(925) 820-9391

August 15, 2016

QUARTERLY GROUNDWATER MONITORING REPORT
JUNE 2016 GROUNDWATER SAMPLING

at

Lim Family Property
250 8th Street
Oakland, California

Submitted by:
AQUA SCIENCE ENGINEERS, INC.
55 Oak Court, Suite 220
Danville, CA 94526
(925) 820-9391



Aqua Science Engineers, Inc. 1460 Washington Blvd, Suite A2011, Concord, CA 94521
(925) 820-9391

1.0 INTRODUCTION

This report presents the methods and findings of Aqua Science Engineers, Inc. (ASE)'s quarterly groundwater monitoring event at the Lim Family property located at 250 8th Street in Oakland, California (*Figures 1 and 2*).

2.0 GROUNDWATER FLOW DIRECTION AND GRADIENT

On June 9, 2016, ASE measured the depth to water in monitoring wells MW-1, MW-2, MW-3, MW-4R, MW-5, and MW-7 using an electric water level sounder. Monitoring wells MW-6 and MW-8 are no longer sampled. The surface of the groundwater was also checked for the presence of free-floating hydrocarbons or sheen. Monitoring well MW-3 contained a hydrocarbon sheen floating on the water surface. No free-floating hydrocarbons or sheen were present in any of the other monitoring wells. This is the ninth consecutive sampling event where MW-4R didn't contain free-floating hydrocarbons. Groundwater elevation data is presented in Table One.

A groundwater elevation (potentiometric surface) contour map is shown as Figure 2. The groundwater flow direction at the site is generally to the south at an approximate gradient of 0.007-feet/foot during this sampling period. The gradient and flow direction are generally consistent with previous findings.

3.0 MONITORING WELL SAMPLING

On June 9, 2016, ASE collected groundwater samples from six monitoring wells for analysis. Prior to sampling, the wells were purged of three well casing volumes of groundwater using disposable polyethylene bailers. The pH, temperature and conductivity of the purge water were monitored during evacuation, and samples were not collected until these parameters stabilized. Samples were collected from each well using disposable polyethylene bailers. The groundwater samples were decanted from the bottom of the bailers using low-flow emptying devices into 40-ml volatile organic analysis (VOA) vials, preserved with hydrochloric acid, sealed without headspace and labeled. All samples were stored on ice for transport to McCampbell Analytical of Pittsburg, California under appropriate chain of custody documentation. Well sampling purge water was contained in a sealed and labeled 55-gallon steel drum for temporary storage until off-site disposal can be arranged. See Appendix A for copies of the well sampling field logs.



4.0 ANALYTICAL RESULTS FOR GROUNDWATER

All groundwater samples were analyzed by McCampbell for total petroleum hydrocarbons as gasoline (TPH-G), benzene, toluene, ethyl benzene, total xylenes (collectively known as BTEX), fuel oxygenates including methyl tertiary butyl ether (MTBE), and lead scavengers by EPA Method 8260B, and total petroleum hydrocarbons as diesel (TPH-D) by modified EPA Method 8015. The analytical results are tabulated in Table Two, and copies of the certified analytical report and chain of custody form are included in Appendix B.

5.0 CONCLUSIONS

- Hydrocarbon concentrations in groundwater samples collected from monitoring well MW-1 increased very slightly from the previous sampling event, but are very similar to results from the last several sampling events and represent stabilized concentrations. The only compounds detected this quarter were 340 parts per billion (ppb) TPH-G, 200 ppb TPH-D, 2.1 ppb benzene, 1.2 ppb total xylenes, 0.77 ppb DIPE, and 7.3 ppb TBA. No toluene, ethyl benzene, MTBE, or lead scavengers were detected.
- Hydrocarbon concentrations in groundwater samples collected from monitoring well MW-2 increased slightly from the previous sampling event, but are similar to the results from the from the last several sampling events and appear to represent stabilized concentrations over the last year.
- No free-floating hydrocarbons were measured in monitoring well MW-3 this period. The hydrocarbon concentrations, other than TPH-D, increased slightly from the previous sampling event, but are very similar to the results from last September, with the exception of benzene, which is the highest concentration since June 2013. The TPH-D concentrations this quarter is significantly lower than the concentrations detected during the last two sampling events.
- No free-floating hydrocarbons were detected in monitoring well MW-4R this period. This is the 11th consecutive sampling event where no free-floating hydrocarbons were detected in this well. The concentrations increased significantly from the anomalous non-detectable concentrations from last quarter. It should be noted that the analytical concentrations from the January sampling in this well appear more in line with what would be expected in MW-5, and the MW-5 results appear more in line with what would be expected in MW-4R. It is possible the there was a mix up between these two samples in the field or at the lab.
- No hydrocarbons were detected in groundwater samples collected from MW-5, other than 3.9 ppb TBA. This is a significant decrease in concentrations from the anomalous results from the previous sampling period. It should be noted that the analytical concentrations from the January sampling in this well appear more in line with what would be expected in MW-5, and the MW-5 results appear more in line with what would be expected in MW-4R. It is possible the there was a mix up between these two samples in the field or at the lab.



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- There was a slight increase in hydrocarbon concentrations detected in groundwater samples collected from monitoring well MW-7 during this sampling event (moderate increase in TPH-G concentration). However, the results still remain significantly lower than all of the results prior to 2015.

Concentrations in groundwater samples collected from the following wells exceeded Environmental Screening Levels (ESLs) for drinking water as established by the California Regional Water Quality Control Board, San Francisco Bay Region dated February 2016:

- Concentrations of TPH-G, TPH-D and benzene in the groundwater samples collected from monitoring wells MW-1, MW-2 and MW-4R.
- Concentrations of TPH-G, TPH-D, and BTEX in the groundwater sample collected from monitoring well MW-3 exceeded ESLs.
- Concentrations of TPH-G, TPH-D, benzene ethyl benzene, and total xylenes in the groundwater sample collected from monitoring well MW-7 exceeded ESLs.

6.0 RECOMMENDATIONS

ASE recommends continuing groundwater monitoring on a quarterly sampling schedule to monitor for rebound during non-remediation conditions. Based on a quarterly sampling schedule, the next groundwater monitoring event is scheduled for September 2016.

ASE will also conduct a soil vapor survey during the next quarter once the workplan is approved by the Alameda County Health Care Services Agency.

7.0 REPORT LIMITATIONS

The results presented in this report represent conditions at the time of the groundwater sampling, at the specific locations where the samples were collected, and for the specific parameters analyzed by the laboratory. It does not fully characterize the site for contamination resulting from unknown sources, or for parameters not analyzed by the laboratory. All of the laboratory work cited in this report was prepared under the direction of an independent CAL-DHS certified laboratory. The independent laboratory is solely responsible for the contents and conclusions of the chemical analysis data.



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Aqua Science Engineers appreciates the opportunity to assist The Lim Family with their environmental needs. Should you have any questions or comments, please feel free to call us at (925) 820-9391.

Respectfully submitted,

AQUA SCIENCE ENGINEERS, INC.

A handwritten signature in black ink that reads "Robert E. Kitay". The signature is written in a cursive style with a long, sweeping underline.



Robert E. Kitay, P.G.
Senior Geologist

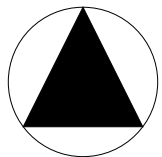
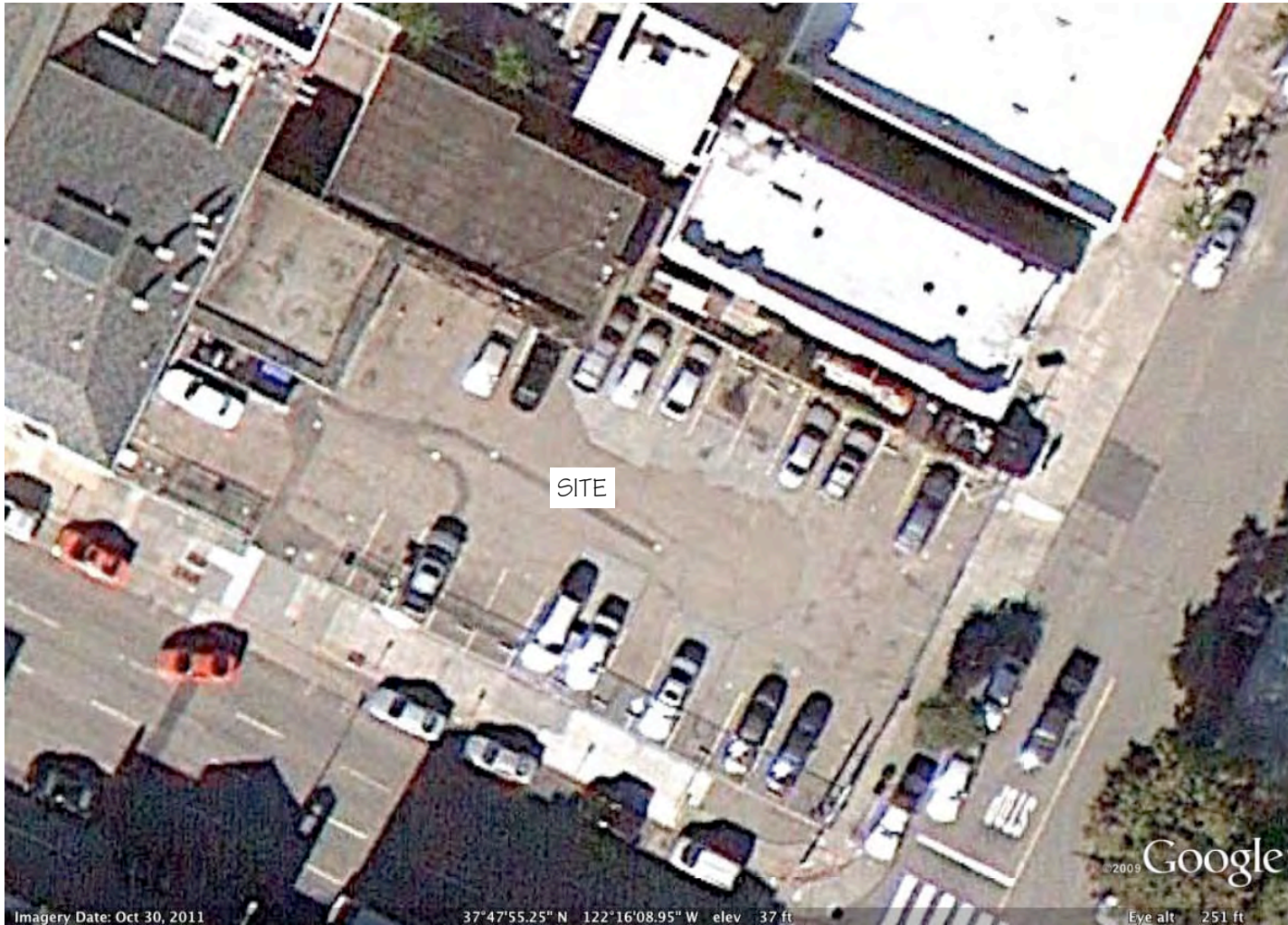
Attachments: Figures 1 and 2
Tables One, Two, and Three
Appendices A and B

cc: Ms. Kit Soo, ACHCSA



Aqua Science Engineers, Inc. 1460 Washington Blvd, Suite A2011, Concord, CA 94521
(925) 820-9391

FIGURES



NORTH

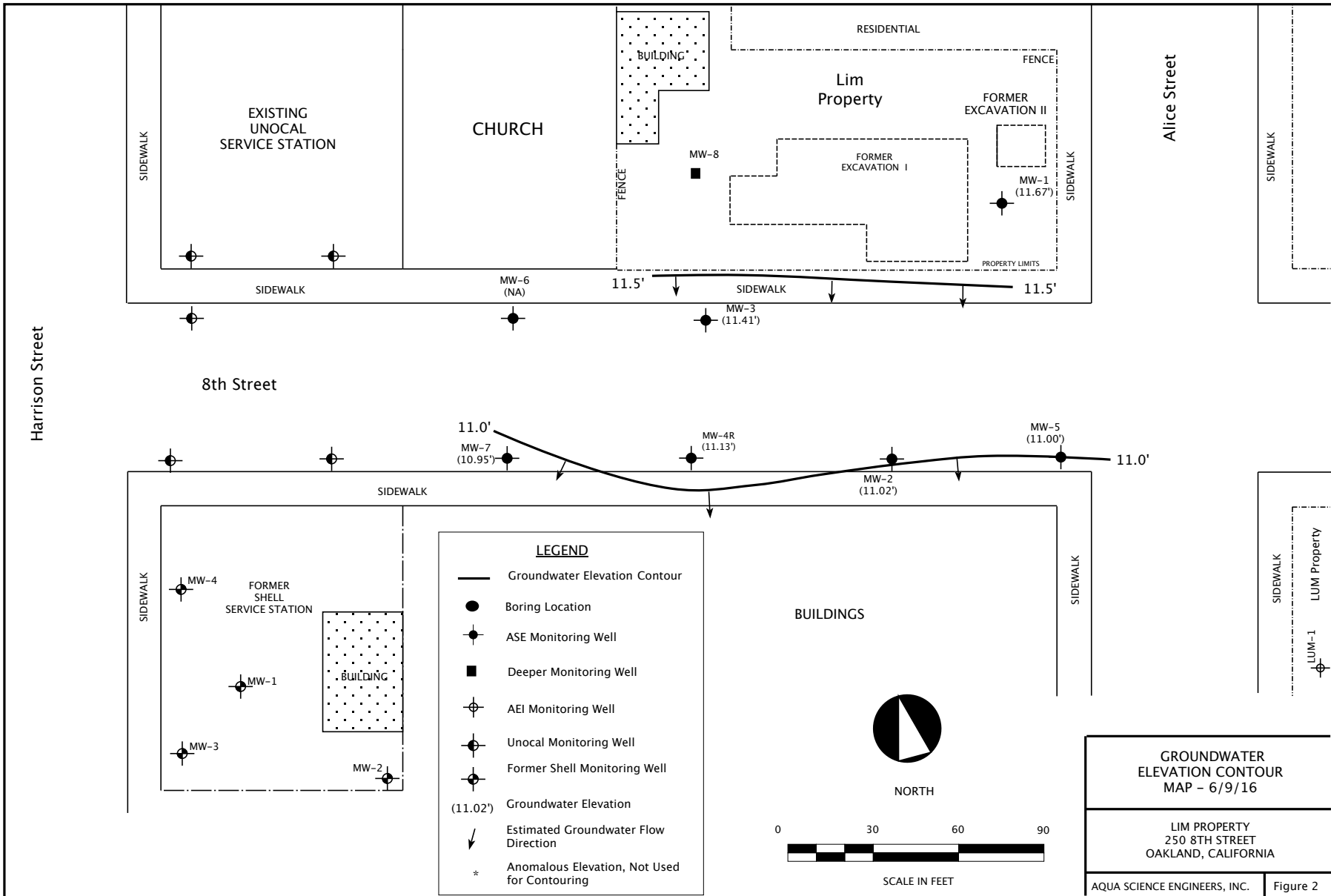
NOT TO SCALE

SITE LOCATION MAP

Lim Family Property
250 8th Street
Oakland, California

Aqua Science Engineers

Figure 1





Aqua Science Engineers, Inc. 1460 Washington Blvd, Suite A2011, Concord, CA 94521
(925) 820-9391

TABLES

TABLE ONE
Groundwater Elevation Data
Lim Family Property
250 8th Street
Oakland, CA

Well I.D.	Date of Measurement	Top of Elevation (msl)	Depth to Water (feet)	Product Thickness (feet)	Groundwater Elevation (msl)
MW-1	01/30/95	25.51	16.21		9.30
	04/12/95		15.71		9.80
	07/14/95		16.71		8.80
	10/17/95		17.72		7.79
	01/12/96		18.03		7.48
	07/25/96		16.82		8.69
	01/06/97		15.60		9.91
	07/08/97		17.31		8.20
	01/26/98		15.21		10.30
	07/23/98		15.38		10.13
	01/05/99		16.82		8.69
	07/13/99		15.89		9.62
	01/12/00		17.44		8.07
	04/24/00		16.37		9.14
	07/20/00		16.30		9.21
	10/24/00		17.25		8.26
	01/18/01		17.29		8.22
	04/05/01		15.88		9.63
	07/17/01		16.54		8.97
	10/25/01		16.89		8.62
	01/21/02		14.92		10.59
	04/11/02		14.02		11.49
	06/11/02		29.72	15.33	14.39
	09/17/02	15.96		13.76	
	12/18/02	16.14		13.58	
	03/25/03	16.16		13.56	
	06/23/03	16.01		13.71	
	09/26/03	16.57		13.15	
	12/18/03	16.41		13.31	
	03/12/04	14.64		15.08	
	06/17/04	15.71		14.01	
	09/17/04	16.35		13.37	
	12/17/04	16.10		13.62	
	04/28/05	14.10		15.62	
	07/19/05	15.94		13.78	
	10/03/05	16.34		13.38	
	12/06/05	16.21		13.51	
	03/15/06	16.21		13.51	
	06/28/06	14.92		14.80	
	08/31/06	15.60		14.12	
	11/21/06	17.20		12.52	
	02/12/07	16.12		13.60	
	05/02/07	16.92		12.80	
	08/09/07	17.58		12.14	
	12/06/07	18.60		11.12	
	02/26/08	17.13		12.59	
05/30/08	18.17		11.55		
08/28/08	18.47		11.25		
12/11/08	19.19		10.53		
03/31/09	17.59		12.13		
12/31/09	18.57		11.15		
06/03/10	16.94		12.78		
12/20/10	18.21		11.51		
06/30/11	17.43		12.29		
06/22/12	17.08		12.64		
12/13/12	17.32		12.40		
06/18/13	18.13		11.59		
12/23/13	18.29		11.43		
06/30/14	18.95		10.77		
12/17/14	18.39		11.33		
06/23/15	19.12		10.60		
09/30/15	19.49		10.23		
01/08/16	19.19		10.53		
08/09/16			18.05	11.67	

TABLE ONE
Groundwater Elevation Data
Lim Family Property
250 8th Street
Oakland, CA

Well I.D.	Date of Measurement	Top of Elevation (msl)	Depth to Water (feet)	Product Thickness (feet)	Groundwater Elevation (msl)
MW-2	01/30/95	23.99	15.02		8.97
	04/12/95		14.75		9.24
	07/14/95		16.02		7.97
	10/17/95		16.94		7.05
	01/12/96		17.05		6.94
	07/25/96		16.02		7.97
	01/06/97		14.34		9.65
	07/08/97		16.52		7.47
	01/26/98		14.10		9.89
	07/23/98		14.70		9.29
	01/05/99		16.01		7.98
	07/13/99		15.40		8.59
	01/12/00		16.76		7.23
	04/24/00		15.67		8.32
	07/20/00		15.70		8.29
	10/24/00		16.56		7.43
	01/18/01		16.47		7.52
	04/05/01		15.88		8.11
	07/17/01		15.35		8.64
	10/25/01		15.63		8.36
	01/21/02		13.55		10.44
	04/11/02		13.74		10.25
	06/11/02		28.19	14.06	14.13
	09/17/02		14.67		13.52
	12/18/02		14.88		13.31
	03/25/03		15.11		13.08
	06/23/03		14.94		13.25
	09/26/03		15.49		12.70
	12/18/03		15.13		13.06
	03/12/04		13.50		14.69
	06/17/04		14.63		13.56
	09/17/04		15.19		13.00
	12/17/04		14.88		13.31
	04/28/05	13.39		14.80	
	07/19/05	15.27		12.92	
	10/03/05	15.57		12.62	
	12/06/05	15.35		12.84	
	03/15/06	12.65		15.54	
	06/28/06	14.45		13.74	
	08/31/06	15.37		12.82	
	11/21/06	16.22		11.97	
	02/12/07	16.12		12.07	
	05/02/07	16.12		12.07	
	08/09/07	16.85		11.34	
	12/06/07	17.95		10.24	
	02/26/08	16.15		12.04	
05/30/08	17.33		10.86		
08/28/08	17.53		10.66		
12/11/08	18.28		9.91		
03/31/09	16.63		11.56		
12/31/09	17.46		10.73		
06/03/10	16.00		12.19		
12/20/10	17.25		10.94		
06/30/11	16.55		11.64		
06/22/12	16.36		11.83		
12/13/12	16.24		11.95		
06/18/13	17.28		10.91		
12/23/13	18.60		9.59		
06/30/14	17.16		11.03		
12/17/14	17.39		10.80		
06/23/15	18.57		9.62		
09/30/15	18.51		9.68		
01/08/16	18.12		10.07		
08/09/16			17.17	11.02	

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Groundwater Elevation Data
Lim Family Property
250 8th Street
Oakland, CA

Well I.D.	Date of Measurement	Top of Elevation (msl)	Depth to Water (feet)	Product Thickness (feet)	Groundwater Elevation (msl)	
MW-3	01/12/00	24.25	16.68	0.01	7.58*	
	04/24/00		15.58	0.15	8.79*	
	07/20/00		16.01	0.41	8.57*	
	10/24/00		16.95	0.21	7.47*	
	01/18/01		16.63	0.21	7.79*	
	04/05/01		15.16	0.23	9.27*	
	07/17/01		15.92	0.39	8.64*	
	10/25/01		16.26	0.38	8.29*	
	01/21/02		14.08	0.16	10.30*	
	04/11/02		14.59	0.54	10.09*	
	06/11/02		28.58	15.16	0.90	14.14*
	09/17/02			16.04	1.24	13.53*
	10/01/02			16.14	1.23	13.42*
	10/25/02	15.80		0.60	13.26*	
	11/12/02	15.87		0.47	13.09*	
	12/18/02	15.42		0.47	13.54*	
	03/25/03	16.11		1.14	13.38*	
	06/23/03	16.58		1.86	13.49*	
	09/26/03	16.11		0.66	13.00*	
	12/18/03	15.83		0.59	13.22*	
	03/12/04	14.51		1.21	15.04*	
	06/17/04	15.25		0.68	13.87*	
	09/17/04	16.14		0.96	13.21*	
	12/17/04	15.05		0.25	13.73*	
	01/13/05	13.40		0.45	15.54*	
	04/28/05	15.31		2.43	15.21*	
	07/19/05	16.29		1.67	13.63*	
	10/03/05	16.10	1.47	13.66*		
	12/06/05	15.04	1.17	14.48*		
	03/15/06	12.65	2.41	15.49*		
	06/28/06	13.55	2.61	16.16*		
	08/31/06	14.85	2.20	15.49*		
	11/21/06	16.05	1.10	13.41*		
	02/12/07	15.96	0.35	12.90*		
	05/02/07	15.11	0.09	13.54*		
	08/09/07	15.83	0.09	12.82*		
	12/06/07	18.10	0.50	10.88*		
	02/26/08	16.47	0.22	12.29*		
	05/30/08	17.90	0.70	11.24*		
	08/28/08	18.05	0.54	10.96*		
	12/11/08	18.57	0.46	10.38*		
03/31/09	16.89	0.23	11.87*			
12/31/09	17.64	sheen	10.94*			
06/03/10	16.58	0.56	12.45*			
12/20/10	17.20	0.45	11.74*			
06/30/11	15.92		12.66			
06/22/12	16.64	0.69	12.48*			
12/13/12	16.24	None	12.34			
06/18/13	17.01		11.57			
12/23/13	18.29		10.29			
06/30/14	NOT MEASURED - PROBE MALFUNCTION					
12/17/14		16.91		11.67		
06/23/15		17.61		10.97		
09/30/15		19.62		8.96		
01/08/16		18.15	0.02	10.45		
08/09/16		17.17	sheen	11.41		

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Oakland, CA

Well I.D.	Date of Measurement	Top of Elevation (msl)	Depth to Water (feet)	Product Thickness (feet)	Groundwater Elevation (msl)
MW-4	01/12/00	23.71	17.24		6.47
	04/24/00		16.18		7.53
	07/20/00		16.18		7.53
	10/24/00		17.03		6.68
	01/18/01		16.87		6.84
	04/05/01		15.28		8.43
	07/17/01		15.92		7.79
	10/25/01		16.23		7.48
	01/21/01		14.14		9.57
	04/11/02		14.43		9.28
	06/11/02	28.61	14.72		13.89
	09/17/02		15.29		13.32
	12/18/02		15.20		13.41
	03/25/03		15.53		13.08
	06/23/03		15.35		13.26
	09/26/03		15.91		12.70
	12/18/03		15.63		12.98
	03/12/04		13.88		14.73
	06/17/04		15.03		13.58
	09/17/04		15.61		13.00
	12/17/04		15.32		13.29
	04/28/05		13.82		14.79
	07/19/05		15.44		13.17
	10/03/05		15.91		12.70
	12/06/05		15.71		12.90
	03/15/06		13.05		15.56
	06/28/06		14.49		14.12
	08/31/06		15.75		12.86
	11/21/06		16.70		11.91
	02/12/07		16.51		12.10
	05/02/07		16.51		12.10
	08/09/07		17.17		11.44
	12/06/07		18.08		10.53
02/26/08	16.57		12.04		
05/30/08	17.66		10.95		
08/28/08	17.98		10.63		
12/11/08	18.61		10.00		
03/31/09	18.75		2.00	11.46*	
MW-4R	12/31/09	28.78	19.85	2.30	10.77*
	06/03/10		18.67	2.57	12.17*
	12/20/10		18.95	2.00	11.43*
	06/30/11		16.45		12.33
	06/22/12		16.69		12.09
	12/13/12		16.61		12.17
	06/18/13		17.60		11.18
	12/23/13		19.07		9.71
	06/30/14		18.77		10.01
	12/17/14		17.95		10.83
	06/23/15		18.35		10.43
	09/30/15		18.96		9.82
	01/08/16		18.60		10.18
06/09/16	17.65			11.13	

TABLE ONE
Groundwater Elevation Data
Lim Family Property
250 8th Street
Oakland, CA

Well I.D.	Date of Measurement	Top of Elevation (msl)	Depth to Water (feet)	Product Thickness (feet)	Groundwater Elevation (msl)
MW-5	06/11/02	28.40	14.23		14.17
	09/17/02		14.80		13.60
	12/18/02		15.08		13.32
	03/25/03		15.31		13.09
	06/23/03		15.16		13.24
	09/26/03		15.72		12.68
	12/18/03		15.47		12.93
	03/12/04		13.44		14.96
	06/17/04		14.90		13.50
	09/17/04		15.45		12.95
	12/17/04		15.12		13.28
	04/28/05		13.63		14.77
	07/19/05		15.67		12.73
	10/03/05		15.81		12.59
	12/06/05		15.60		12.80
	03/15/06		12.81		15.59
	06/28/06		15.21		13.19
	08/31/06		15.55		12.85
	11/21/06		17.09		11.31
	02/12/07		16.29		12.11
	05/02/07		16.21		12.19
	08/09/07		16.97		11.43
	12/06/07		18.35		10.05
	02/26/08		16.35		12.05
	05/30/08		17.62		10.78
	08/28/08		17.72		10.68
	12/11/08		18.62		9.78
	03/31/09		16.94		11.46
	12/31/09		17.73		10.67
	06/03/10		16.20		12.20
	12/20/10		17.72		10.68
	06/30/11		16.75		11.65
	06/22/12		16.41		11.99
12/13/12	16.46		11.94		
06/18/13	17.48		10.92		
12/23/13	18.62		9.78		
06/30/14	18.11		10.29		
12/17/14	17.46		10.94		
06/23/15	18.12		10.28		
09/30/15	18.74		9.66		
01/08/16	18.35		10.05		
06/09/16	17.40		11.00		

TABLE ONE
 Groundwater Elevation Data
 Lim Family Property
 250 8th Street
 Oakland, CA

Well I.D.	Date of Measurement	Top of Elevation (msl)	Depth to Water (feet)	Product Thickness (feet)	Groundwater Elevation (msl)	
MW-6	06/11/02	29.20	14.95		14.25	
	09/17/02		15.47		13.73	
	12/18/02		15.43		13.77	
	03/25/03		15.67		13.53	
	06/23/03		15.48		13.72	
	09/26/03		NOT MEASURED - SOUNDER MALFUNCTION			
	12/18/03		15.79		13.41	
	03/12/04		14.04		15.16	
	06/17/04		15.13		14.07	
	09/17/04		15.74		13.46	
	12/17/04		15.54		13.66	
	04/28/05		13.91		15.29	
	07/19/05		15.30		13.90	
	10/03/05		15.35		13.85	
	12/06/05		15.69		13.51	
	03/15/06		13.14		16.06	
	06/28/06		14.44		14.76	
	08/31/06		16.25		12.95	
	11/21/06		16.69		12.51	
	02/12/07		16.63		12.57	
	05/02/07		16.57		12.63	
	08/09/07		17.19		12.01	
	12/06/07		17.95		11.25	
	02/26/08		16.66		12.54	
	05/30/08		17.64		11.56	
	08/28/08		18.03		11.17	
	12/11/08		18.54		10.66	
	03/31/09		17.10		12.10	
	12/31/09		18.00		11.20	
	06/03/10		16.58		12.62	
	12/20/10		17.40		11.80	
	06/30/11		17.02		12.18	
06/22/12	16.70		12.50			
12/13/12	16.77		12.43			
06/18/13	17.69		11.51			
12/23/13	18.74		10.46			
06/30/14	No Longer measured					

TABLE ONE
Groundwater Elevation Data
Lim Family Property
250 8th Street
Oakland, CA

Well I.D.	Date of Measurement	Top of Elevation (msl)	Depth to Water (feet)	Product Thickness (feet)	Groundwater Elevation (msl)
MW-7	06/11/02	28.95	15.19		13.76
	09/17/02		15.73		13.22
	12/18/02	NOT MEASURED - CAR PARKED OVER WELL			
	03/25/03		15.96		12.99
	06/23/03		15.75		13.20
	09/26/03		16.29		12.66
	12/18/03		16.03		12.92
	03/12/04		14.28		14.67
	06/17/04		15.42		13.53
	09/17/04		16.02		12.93
	12/17/04		15.45		13.50
	04/28/05		14.15		14.80
	07/19/05		15.30		13.65
	10/03/05		16.25		12.70
	12/06/05		16.05		12.90
	03/15/06		13.36		15.59
	06/28/06		14.81		14.14
	08/31/06		16.13		12.82
	11/21/06		17.06		11.89
	02/12/07		16.97		11.98
	05/02/07		16.93		12.02
	08/09/07		17.56		11.39
	12/06/07		18.32		10.63
	02/26/08		16.93		12.02
	05/30/08		17.97		10.98
	08/28/08		18.33		10.62
	12/11/08		18.86		10.09
	03/31/09		17.37		11.58
	12/31/09		18.26		10.69
	06/03/10		16.86		12.09
	12/20/10		17.70		11.25
	06/30/11		17.36		11.59
	06/22/12		17.03		11.92
12/13/12		17.01		11.94	
06/18/13		18.02		10.93	
12/23/13		19.77		9.18	
06/30/14		18.36		10.59	
12/17/14		18.75		10.20	
06/23/15		18.75		10.20	
09/30/15		19.25		9.70	
01/08/16		18.91		10.04	
	06/09/16		18.00		10.95
MW-8	02/26/08	30.14	21.50		8.64
	05/30/08		22.52		7.62
	08/28/08		23.27		6.87
	12/11/08		23.15		6.99
	03/31/09		21.46		8.68
	12/31/09		22.75		7.39
	06/03/10		21.06		9.08
	12/20/10		22.18		7.96
	06/30/11		21.95		8.19
	06/22/12		21.23		8.91
	12/13/12		21.89		8.25
	06/18/13		22.44		7.70
	12/23/13		23.22		6.92
	06/30/14	No Longer measured			

Notes:

* = Adjusted for the presence of free-floating oil by the equation: Top of Casing Elevation - Depth to Water + (0.8 x Floating Hydrocarbon Thickness) = Groundwater Elevation (Adjusted).

Top of casing elevations resurveyed by Mid Coast Engineers on 6/27/02 and 7/11/02.

TABLE TWO
Summary of Chemical Analysis of Groundwater Samples
Petroleum Hydrocarbon Concentrations
All results are in parts per billion

Well/ Date Sampled	TPH Gasoline	TPH Diesel	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	DIPE	TBA	Other Oxys	EDC	EDB
MW-1												
01/30/95	740	200	3	5	1	4	--	---	---	---	---	---
04/12/95	400	500	< 0.5	< 0.5	3	< 2	--	---	---	---	---	---
07/14/95	520	400	1	< 0.5	2	3	--	---	---	---	---	---
10/17/95	400	200	0.5	1	3	< 2	--	---	---	---	---	---
01/12/96	120	890	< 0.5	< 0.5	< 0.5	< 1.0	< 2.0	---	---	---	---	---
07/08/96	320	300	0.52	2.7	1.2	2.3	< 5.0	---	---	---	---	---
01/06/97	110	75	< 0.5	0.68	< 0.5	< 0.5	< 5.0	---	---	---	---	---
07/08/97	380	290	< 0.5	1.5	1.4	1.9	< 5.0	---	---	---	< 0.5	< 0.5
01/26/98	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0	---	---	---	< 0.5	< 0.5
07/23/98	190	< 50	0.54	2.8	2	1.8	< 5.0	---	---	---	< 2	< 2
01/05/99	200	< 50	1.8	1.6	3.3	< 0.5	< 5.0	---	---	---	< 0.5	< 0.5
07/13/99	340	< 50	< 0.5	< 0.5	2.6	< 0.5	< 5.0	---	---	---	< 0.5	< 0.5
01/12/00	300	1,000	22	36	5.5	24	< 5.0	---	---	---	< 0.5	< 0.5
04/24/00	360	280*	< 0.5	< 0.5	< 0.5	2.1	< 5.0	---	---	---	< 0.5	< 0.5
07/20/00	290	150*	1.8	< 0.5	< 0.5	< 0.5	< 5.0	---	---	---	< 0.5	< 0.5
10/24/00	170**	280*	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0	---	---	---	< 0.5	< 0.5
01/18/01	170**	150*	< 0.5	< 0.5	< 0.5	2.1	< 5.0	---	---	---	< 0.5	< 0.5
04/05/01	350**	190*	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0	---	---	---	< 0.5	< 0.5
07/17/01	310	570	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0	---	---	---	< 0.5	< 0.5
10/25/01	250	260	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0	---	---	---	---	---
01/22/02	200	250	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0	---	---	---	---	---
04/11/02	260	300	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0	---	---	---	---	---
06/11/02	270	330	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0	---	---	---	---	---
09/17/02	320	1,700	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0	---	---	---	---	---
12/18/02	170	320	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0	---	---	---	---	---
03/25/03	320	< 500	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0	---	---	---	---	---
06/23/03	240	310	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0	---	---	---	---	---
09/26/03	110	300	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	---	---	---	< 0.5	< 0.5
12/18/03	150	340	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	---	---	---	< 0.5	< 0.5
03/12/04	220	510	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	---	---	---	< 0.5	< 0.5
06/17/04	250	490	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	---	---	---	< 0.5	< 0.5
09/17/04	110	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	---	---	---	---	---
11/10/04***	180	400	0.68	< 0.5	1.7	< 0.5	< 5.0	---	---	---	---	---
12/17/04	77	130	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	---	---	---	< 0.5	< 0.5
04/28/05	250	190	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.67	< 0.5	< 0.5	< 0.5	< 0.5
07/19/05	340	na	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.76	< 5.0	< 0.5	< 0.5	< 0.5
10/03/05	170	< 100	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.50	< 5.0	< 0.5	< 0.5	< 0.5
12/06/05	140	67	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0	---	---	---	---	---
03/15/06	170	< 80	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
06/28/06	230	130	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
08/31/06	310	< 200	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 5.0	< 0.50	< 0.50	< 0.50
11/21/06	220	160	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 5.0	< 0.50	< 0.50	< 0.50
02/23/07	140	120	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.2	< 5.0	< 0.50	< 0.50	< 0.50
05/02/07	180	140	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.3	< 5.0	< 0.50	< 0.50	< 0.50
08/09/07	130	120	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.85	< 5.0	< 0.50	< 0.50	< 0.50
12/06/07	53	160	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 5.0	< 5.0	< 0.50	< 0.50	< 0.50
02/26/08	93	< 50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.1	< 5.0	< 0.50	< 0.50	< 0.50
05/30/08	200	240	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.95	< 5.0	< 0.50	< 0.50	< 0.50
08/28/08	150	200	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.2	< 5.0	< 0.50	---	---
12/11/08	110	140	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.92	< 5.0	< 0.50	---	---
03/31/09	160	< 200	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.8	< 5.0	< 0.50	< 0.50	< 0.50
12/31/09	140	200	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.84	< 5.0	< 0.50	< 0.50	< 0.50
06/03/10	300	140	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.72	< 5.0	< 0.50	< 0.50	< 0.50
12/20/10	140	180	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 5.0	< 0.50	< 0.50	< 0.50
06/30/11	650	< 200	1.9	< 0.50	< 0.50	< 0.50	< 0.50	0.78	< 5.0	< 0.50	< 0.50	< 0.50
06/22/12	750	< 200	23	< 0.50	1.1	2.3	< 0.50	0.80	12	< 0.50	< 0.50	< 0.50
12/13/12	180	90	2.6	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 5.0	< 0.50	< 0.50	< 0.50
06/18/13	370	84	1.5	< 0.50	< 0.50	< 0.50	< 0.50	0.52	< 5.0	< 0.50	< 0.50	< 0.50
12/23/13	410	200	2.0	< 0.50	< 0.50	< 0.50	< 0.50	0.64	< 5.0	< 0.50	< 0.50	< 0.50
06/30/14	400	140	6.9	< 0.50	< 0.50	< 0.50	< 0.50	1.4	< 5.0	< 0.50	< 0.50	< 0.50
12/17/14	520	77	11	< 0.50	< 0.50	1.8	< 0.50	0.56	< 5.0	< 0.50	< 0.50	< 0.50
06/23/15	380	130	3.2	< 0.50	< 0.50	0.92	< 0.50	< 0.50	2.2	< 0.50	< 0.50	< 0.50
09/30/15	210	280	1.2	< 0.50	< 0.50	< 0.50	< 0.50	0.59	4.3	< 0.50	< 0.50	< 0.50
01/08/16	130	60	0.64	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50
06/09/16	340	200	2.1	< 0.50	< 0.50	1.2	< 0.50	0.77	7.3	< 0.50	< 0.50	< 0.50

TABLE TWO
Summary of Chemical Analysis of Groundwater Samples
Petroleum Hydrocarbon Concentrations
All results are in parts per billion

Well/ Date Sampled	TPH Gasoline	TPH Diesel	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	DIPE	TBA	Other Oxys	EDC	EDB
MW-2												
01/30/95	88,000	800	19,000	18,000	2,400	10,000	--	--	--	--	--	--
04/12/95	110,000	990	21,000	28,000	2,800	14,000	--	--	--	--	--	--
07/14/95	120,000	5,000	20,000	25,000	3,200	15,000	--	--	--	--	--	--
10/17/95	190,000	4,000	15,000	26,000	4,900	23,000	--	--	--	--	--	--
01/12/96	32,000	2,600	10,000	8,000	1,100	4,800	< 2	--	--	--	--	--
07/08/96	110,000	2,500	20,000	18,000	2,500	12,000	< 500	--	--	--	--	--
01/06/97	230,000	37,000	11,000	19,000	4,300	20,000	< 1,200	--	--	--	--	--
07/08/97	91,000	35,000	16,000	20,000	2,700	13,000	< 1,000	--	--	--	< 0.5	< 0.5
01/26/98	50,000	11,000	12,000	12,000	1,600	6,700	< 250	--	--	--	11	< 0.5
07/23/98	50,000	8,100#	11,000	8,300	1,800	7,000	1,100	--	--	--	9.9	< 0.5
01/05/99	50,000	7,600#	12,000	12,000	2,300	9,600	1,300	--	--	--	< 50	< 50
07/13/99	73,000	8,500	11,000	13,000	2,200	9,800	< 500	--	--	--	7.7	< 0.5
01/12/00	63,000	11,000	10,000	12,000	1,800	7,800	< 500	--	--	--	8.8	< 1.0
04/24/00	76,000	23,000*	7,100	14,000	2,000	9,400	< 500	--	--	--	5.9	< 5.0
07/20/00	68,000	5,300#	11,000	14,000	2,300	11,000	< 1,000	--	--	--	6.7	< 5.0
10/24/00	48,000	6,400*	11,000	9,400	1,500	7,300	< 500	--	--	--	< 5.0	< 5.0
01/18/01	37,000	4,600*	6,900	5,600	1,200	5,300	< 500	--	--	--	< 5.0	< 5.0
04/05/01	59,000	4,600*	7,100	9,800	1,600	7,600	< 500	--	--	--	4.6	< 5.0
07/17/01	90,000	< 10,000	9,200	14,000	2,700	11,000	< 50	--	--	--	< 50	--
10/25/01	79,000	< 3,800	9,200	14,000	2,400	11,000	< 50	--	--	--	< 50	< 50
01/22/02	76,000	< 2,300	7,000	13,000	2,200	9,600	< 50	--	--	--	< 50	< 50
04/11/02	76,000	< 1,500	7,800	11,000	2,900	12,000	< 50	--	--	--	--	--
06/11/02	72,000	< 2,500	7,300	9,600	2,500	12,000	< 50	--	--	--	--	--
09/17/02	52,000	< 3,000	5,000	5,400	2,100	9,100	< 20	--	--	--	< 20	< 20
12/18/02	46,000	< 6,000	2,900	3,000	1,800	7,600	22	--	--	--	< 10	< 10
03/25/03	87,000	< 8,000	7,900	9,300	2,900	12,000	< 50	--	--	--	< 50	< 50
06/23/03	46,000	< 3000	7,800	4,000	1,900	6,600	< 50	--	--	--	< 50	< 50
09/26/03	52,000	< 3000	9,100	3,500	1,300	5,000	< 50	--	--	--	< 50	< 50
12/18/03	61,000	< 4,000	13,000	3,500	1,600	5,600	< 20	--	--	--	< 20	< 20
03/12/04	53,000	< 4,000	9,100	3,500	1,700	5,700	< 25	--	--	--	< 25	< 25
06/17/04	59,000	< 3,000	7,100	4,000	1,700	7,300	< 25	--	--	--	< 25	< 25
09/17/04	33,000	--	9,800	1,200	1,300	4,000	< 20	--	--	--	--	--
11/10/04***	44,000	3,600	13,000	4,400	1,600	6,000	< 1000	--	--	--	--	--
12/17/04	54,000	< 3,000	7,900	2,200	1,700	3,900	< 15	--	--	--	< 15	< 15
04/28/05	81,000	< 3,000	7,000	6,000	2,100	8,700	< 15	90	< 15	< 15	< 15	< 15
07/19/05	59,000	na	7,900	4,400	1,900	7,000	< 15	< 15	77	< 15	< 15	< 15
10/03/05	34,000	< 800	7,800	810	1,000	2,800	< 15	< 15	< 70	< 15	< 15	< 15
12/06/05	26,000	< 800	6,100	940	770	2,000	< 15	--	--	--	--	--
03/15/06	33,000	< 1,500	7,700	2,600	1,400	4,200	< 15	< 15	< 15	< 15	< 15	< 15
06/28/06	96,000	< 4,000	10,000	14,000	2,900	12,000	< 15	< 15	< 5.0	< 15	33	< 15
8/31/06	47,000	< 3,000	5,800	5,100	2,200	8,700	< 15	< 15	81	< 15	< 15	< 15
11/21/06	51,000	< 1,500	6,800	3,400	1,700	6,200	< 15	< 15	82	< 15	< 15	< 15
02/23/07	38,000	< 1,500	7,800	2,000	1,500	4,600	< 15	< 15	190	< 15	< 15	< 15
05/02/07	55,000	< 3,000	6,500	5,100	2,400	8,600	< 15	< 15	110	< 15	< 15	< 15
08/09/07	39,000	< 3,000	6,600	2,200	1,600	4,900	< 15	< 15	81	< 15	< 15	< 15
12/06/07	20,000	< 1,500	7,400	510	680	1,200	< 15	< 15	120	< 15	< 15	< 15
02/26/08	43,000	< 4,000	8,200	940	1,400	3,700	< 15	< 15	70	< 15	< 15	< 15
05/30/08	31,000	< 1,000	11,000	620	1,100	2,300	< 15	< 15	84	< 15	< 15	< 15
08/28/08	38,000	< 3,000	11,000	630	1,400	3,800	< 25	< 25	< 150	< 25	--	--
12/11/08	32,000	< 2,000	11,000	610	1,000	2,700	< 25	< 25	< 150	< 25	--	--
03/31/09	44,000	< 4,000	6,500	3,300	1,700	5,600	< 9.0	< 9.0	56	< 9.0	< 9.0	< 9.0
12/31/09	36,000	< 4,000	9,700	350	1,600	3,800	< 9.0	13	56	< 9.0	< 9.0	< 9.0
06/03/10	53,000	< 10,000	8,600	2,600	2,500	8,000	< 5.0	8.9	69	< 5.0	< 5.0	< 5.0
12/20/10	39,000	< 4,000	13,000	530	1,600	3,600	< 15	21	< 70	< 15	< 15	< 15
06/30/11	65,000	< 6,000	7,300	5,900	2,400	10,000	< 20	< 20	< 90	< 20	< 20	< 20
06/22/12	1,200	140	50	56	4.0	160	< 0.50	1.6	17	< 0.50	1.1	< 0.50
12/13/12	2,400	66	890	4.1	9.6	16	< 0.50	5.4	17	< 0.50	1.4	< 0.50
06/18/13	5,300	88	2,400	7.8	80	31	< 1.5	7.8	17	< 1.5	< 1.5	< 1.5
12/23/13	6,600	210	2,200	6.6	15	16	< 4.0	7.9	34	< 4.0	< 4.0	< 4.0
06/30/14	21,000	200	8,000	94	290	400	< 4.0	16	66	< 4.0	< 4.0	< 4.0
12/17/14	27,000	180	7,600	53	100	210	< 15	< 15	< 70	< 15	< 15	< 15
06/23/15	17,000	1,400	7,800	< 250	< 250	560	< 250	< 250	< 1,000	< 250	< 250	< 250
09/30/15	11,000	1,500	8,900	< 500	< 500	< 500	< 500	< 500	< 2,000	< 500	< 500	< 500
01/08/16	12,000	1,000	7,000	< 120	< 120	< 120	< 120	< 120	< 500	< 120	< 120	< 120
06/09/16	21,000	1,400	8,100	< 120	< 120	< 120	< 120	< 120	< 500	< 120	< 120	< 120

TABLE TWO
Summary of Chemical Analysis of Groundwater Samples
Petroleum Hydrocarbon Concentrations
All results are in parts per billion

Well/ Date Sampled	TPH Gasoline	TPH Diesel	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	DIPE	TBA	Other Oxys	EDC	EDB
MW-3												
01/12/00	140,000	13,000*	22,000	19,000	2,400	11,000	< 500	---	---	---	---	---
04/24/00	240,000	700,000*	33,000/ 35,000	52,000/ 87,000	5,700/ 18,000	28,000/ 84,000	< 5,000	---	---	---	---	---
07/20/00	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS											
10/24/00	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS											
01/18/01	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS											
04/05/01	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS											
07/17/01	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS											
10/25/01	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS											
01/22/02	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS											
04/11/02	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS											
06/11/02	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS											
09/17/02	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS											
12/18/02	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS											
03/25/03	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS											
06/23/03	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS											
09/26/03	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS											
12/18/03	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS											
03/12/04	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS											
06/17/04	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS											
09/17/04	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS											
11/10/04	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS											
12/17/04	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS											
04/28/05	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS											
07/19/05	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS											
10/03/05	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS											
12/06/05	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS											
03/15/06	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS											
06/28/06	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS											
8/31/06	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS											
11/21/06	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS											
02/23/07	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS											
05/02/07	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS											
08/09/07	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS											
12/06/07	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS											
02/26/08	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS											
05/30/08	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS											
08/28/08	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS											
12/11/08	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS											
03/31/09	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS											
12/31/09	60,000	< 25,000	7,500	6,500	1,000	6,600	< 20	< 20	< 90	< 20	< 20	< 20
06/03/10	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS											
12/20/10	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS											
06/30/11	140,000	< 40,000	12,000	21,000	4,000	17,000	< 20	< 20	< 90	< 20	< 20	< 20
06/22/12	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS (0.69-feet)											
12/13/12	99,000	< 12,000	5,800	5,800	2,100	11,000	< 10	< 10	60	< 10	< 10	< 10
06/18/13	100,000	220,000	6,700	7,900	2,000	15,000	< 10	< 10	< 50	< 10	< 10	< 10
12/23/13	80,000	4,700	4,800	2,100	860	11,000	< 15	< 15	110	< 15	< 15	< 15
06/30/14	97,000	5,900	4,600	6,200	1,300	11,000	< 15	< 15	500	< 15	< 15	< 15
12/17/14	53,000	8,300	1,800	1,200	560	5,300	< 9.0	< 9.0	400	< 9.0	10	< 9.0
06/23/15	27,000	13,000	3,500	390	580	4,600	< 50	< 50	420	< 50	< 50	< 50
09/30/15	77,000	130,000	4,100	1,000	870	9,100	< 100	< 100	< 400	< 100	< 100	< 100
01/08/16	47,000	220,000	3,900	440	1,200	10,000	< 100	< 100	< 400	< 100	< 100	< 100
06/09/16	73,000	40,000	6,000	1,200	1,400	11,000	< 120	< 120	< 500	< 120	< 120	< 120

TABLE TWO
Summary of Chemical Analysis of Groundwater Samples
Petroleum Hydrocarbon Concentrations
All results are in parts per billion

Well/ Date Sampled	TPH Gasoline	TPH Diesel	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	DIPE	TBA	Other Oxys	EDC	EDB
MW-4												
01/12/00	99,000	7,900*	16,000	20,000	2,100	12,000	< 2,500	---	---	---	< 50	< 50
04/24/00	54,000	44,000*	3,400/ 4,500	13,000/ 20,000	1,800/ 2,800	8,800/ 14,000	< 1,300	---	---	---	< 250	< 250
07/20/00	8,000	3,500	9,200/ 11,000	20,000/ 22,000	2,500/ 3,400	12,000/ 13,000	< 1,000	---	---	---	< 200	< 200
10/24/00	98,000	8,000*	21,000	29,000	2,700	15,000	< 1,000	---	---	---	< 250	< 250
01/18/01	91,000	12,000	17,000/ 15,000	21,000/ 21,000	2,500/ 2,800	13,000/ 11,000	< 1,000	---	---	---	< 250	< 250
04/05/01	88,000	7,500*	6,900/ 3,200	18,000/ 9,000	2,500/ 1,300	12,000/ 6,400	< 1,000	---	---	---	< 50	< 50
07/17/01	95,000	< 3,000	8,000	16,000	2,900	11,000	49	---	---	---	69	---
10/25/01	89,000	< 2,200	9,300	18,000	2,400	12,000	66	---	---	---	72	< 50
01/22/02	80,000	< 2,300	4,600	15,000	2,500	11,000	< 50	---	---	---	< 50	< 50
04/11/02	90,000	< 900	6,600	18,000	2,800	12,000	55	---	---	---	---	---
06/25/02	110,000	< 3,000	10,000	20,000	2,900	13,000	< 100	---	---	---	< 100	< 100
09/17/02	110,000	< 3,000	9,600	21,000	2,800	13,000	< 100	---	---	---	< 100	< 100
12/18/02	97,000	< 4,000	8,000	20,000	2,600	12,000	< 50	---	---	---	< 50	< 50
03/25/03	97,000	< 7,500	7,600	22,000	2,500	12,000	< 100	---	---	---	< 100	< 100
06/23/03	100,000	< 3,000	9,600	22,000	3,300	15,000	< 100	---	---	---	< 100	< 100
09/26/03	110,000	< 4,000	9,300	17,000	2,100	10,000	< 50	---	---	---	87	< 50
12/18/03	110,000	< 2,000	8,900	19,000	2,500	12,000	< 25	---	---	---	46	< 25
03/12/04	96,000	< 4,000	6,500	18,000	2,700	12,000	< 40	---	---	---	< 40	< 40
06/17/04	110,000	< 4,000	10,000	20,000	2,900	13,000	< 50	---	---	---	93	< 50
09/17/04	78,000	---	9,300	15,000	2,400	11,000	< 50	---	---	---	---	---
11/10/04***	87,000	4,300	15,000	21,000	3,000	16,000	< 1300	---	---	---	---	---
12/17/04	88,000	< 3,000	8,500	16,000	2,800	12,000	< 25	---	---	---	53	< 25
04/28/05	110,000	< 3,000	7,800	14,000	2,200	10,000	< 25	< 25	< 25	< 25	46	< 25
07/19/05	90,000	na	10,000	13,000	2,300	10,000	< 40	< 20	< 20	< 20	73	< 40
10/03/05	68,000	< 800	9,400	4,000	1,800	8,700	23	23	< 5.0	< 20	62	< 20
12/06/05	81,000	< 1,500	8,900	7,200	2,200	9,500	< 20	---	---	---	---	---
03/15/06	68,000	< 3,000	7,300	14,000	2,500	10,000	< 20	< 20	< 20	< 20	< 20	< 20
06/28/06	61,000	< 3,000	8,500	4,100	2,600	11,000	< 20	< 20	< 5.0	< 20	20	< 20
08/31/06	68,000	< 2,000	9,500	9,600	2,500	12,000	< 20	< 20	< 5.0	< 20	36	< 20
11/21/06	68,000	< 1,500	9,000	5,000	2,000	9,300	< 20	< 20	230	< 20	42	< 20
02/23/07	90,000	< 2,000	11,000	11,000	2,800	12,000	< 20	< 20	290	< 20	36	< 20
05/02/07	56,000	< 2,000	7,300	6,300	2,500	11,000	< 15	< 15	160	< 15	20	< 15
08/09/07	52,000	< 2,000	7,600	2,600	2,100	8,400	< 15	15	170	< 15	31	< 15
12/06/07	60,000	< 2,000	13,000	2,000	2,800	11,000	< 15	22	150	< 15	< 15	< 15
02/26/08	42,000	< 2,000	3,700	2,300	2,300	8,900	< 15	< 15	90	< 15	< 15	< 15
05/30/08	64,000	< 3,000	9,200	5,100	3,000	12,000	< 15	< 15	83	< 15	19	< 15
08/28/08	73,000	< 5,000	9,700	5,500	3,300	12,000	< 15	< 15	< 70	< 15	---	---
12/11/08	120,000	< 40,000	14,000	12,000	4,400	19,000	< 25	< 25	< 150	< 25	---	---
03/31/09	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS											
MW-4R												
12/31/09	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS											
06/03/10	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS											
12/20/10	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS											
06/30/11	190,000	< 30,000	3,800	11,000	2,900	20,000	< 25	< 25	< 150	< 25	< 25	< 25
06/22/12	4,500	< 200	31	53	5.0	500	6.3	6.1	180	< 0.5	21	< 0.5
12/13/12	3,700	< 200	97	76	50	590	< 0.50	1.0	41	< 0.50	2.5	< 0.50
06/18/13	3,800	110	37	33	10	400	1.5	2.5	120	< 0.50	7.2	< 0.50
12/23/13	240	100	< 0.50	< 0.50	< 0.50	5.4	< 0.50	< 0.50	< 5.0	< 0.50	< 0.50	< 0.50
06/30/14	3,600	340	1,300	6.3	1.3	16	< 0.50	0.93	22	< 0.50	< 0.50	< 0.50
12/17/14	210	240	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 5.0	< 0.50	< 0.50	< 0.50
06/23/15	200	99	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50
09/30/15	1,800	600	650	< 17	< 17	18	< 17	< 17	78	< 17	< 17	< 17
01/08/16	< 50	< 50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50
06/09/16	7,600	660	2,600	< 50	120	140	< 50	< 50	200	< 50	< 50	< 50

TABLE TWO
Summary of Chemical Analysis of Groundwater Samples
Petroleum Hydrocarbon Concentrations
All results are in parts per billion

Well/ Date Sampled	TPH Gasoline	TPH Diesel	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	DIPE	TBA	Other Oxys	EDC	EDB
MW-5												
06/11/02	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	28	---	---	---	< 0.5	< 0.5
09/17/02	< 50	110	< 0.5	< 0.5	< 0.5	< 0.5	4.8	---	---	---	< 0.5	< 0.5
12/18/02	< 50	140	< 0.5	< 0.5	< 0.5	< 0.5	1.8	---	---	---	< 0.5	< 0.5
03/25/03	< 50	130	< 0.5	< 0.5	< 0.5	< 0.5	7.4	---	---	---	< 0.5	< 0.5
06/23/03	< 50	390	< 0.5	< 0.5	< 0.5	< 0.5	17	---	---	---	< 0.5	< 0.5
09/26/03	< 50	700	< 0.5	< 0.5	< 0.5	< 0.5	21	---	---	---	< 0.5	< 0.5
12/18/03	< 50	550	< 0.5	< 0.5	< 0.5	< 0.5	16	---	---	---	< 0.5	< 0.5
03/12/04	< 50	490	< 0.5	< 0.5	< 0.5	< 0.5	9.1	---	---	---	< 40	< 40
06/17/04	< 50	510	< 0.5	< 0.5	< 0.5	< 0.5	9.8	---	---	---	< 0.5	< 0.5
09/17/04	< 50	--	< 0.5	< 0.5	< 0.5	< 0.5	5.5	---	---	---	---	---
11/10/04***	< 50	370	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0	---	---	---	---	---
12/17/04	< 50	120	< 0.5	< 0.5	< 0.5	< 0.5	9.2	---	---	---	< 0.5	< 0.5
04/28/05	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	2.2	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
07/19/05	< 50	na	< 0.5	< 0.5	< 0.5	< 0.5	6.1	2.1	< 5.0	< 0.5	< 0.5	< 0.5
10/03/05	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	2.4	1.7	< 5.0	< 0.5	< 0.5	< 0.5
12/06/05	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0	---	---	---	---	---
03/15/06	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	3.3	< 0.5	< 5.0	< 0.5	< 0.5	< 0.5
06/28/06	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	1.8	< 0.5	< 5.0	< 0.5	< 0.5	< 0.5
08/31/06	< 50	< 50	< 0.50	< 0.50	< 0.50	< 0.50	3.4	< 0.50	< 5.0	< 0.50	< 0.50	< 0.50
12/05/06	< 50	< 50	< 0.50	< 0.50	< 0.50	< 0.50	5.2	1.7	5.4	< 0.50	< 0.50	< 0.50
02/23/07	< 50	< 50	< 0.50	< 0.50	< 0.50	< 0.50	6.0	1.4	< 5.0	< 0.50	< 0.50	< 0.50
05/02/07	< 50	< 50	< 0.50	< 0.50	< 0.50	< 0.50	3.8	1.3	< 5.0	< 0.50	< 0.50	< 0.50
08/09/07	< 50	< 50	< 0.50	< 0.50	< 0.50	< 0.50	5.5	1.3	< 5.0	< 0.50	< 0.50	< 0.50
12/06/07	< 50	< 50	< 0.50	< 0.50	< 0.50	< 0.50	1.8	1.5	< 5.0	< 0.50	< 0.50	< 0.50
02/26/08	260	< 50	32	1.3	0.62	0.92	3.4	5.6	7.7	< 0.50	0.60	< 0.50
05/30/08	71	< 50	1.8	< 0.50	< 0.50	< 0.50	2.4	3.1	< 5.0	< 0.50	< 0.50	< 0.50
08/28/08	< 50	< 50	< 0.50	< 0.50	< 0.50	< 0.50	2.1	2.2	< 5.0	< 0.50	---	---
12/11/08	< 50	< 50	< 0.50	< 0.50	< 0.50	< 0.50	2.2	2.5	< 5.0	< 0.50	---	---
03/31/09	< 50	< 50	< 0.50	< 0.50	< 0.50	< 0.50	1.2	1.3	< 5.0	< 0.50	< 0.50	< 0.50
12/31/09	< 50	< 50	< 0.50	< 0.50	< 0.50	< 0.50	1.9	1.5	< 5.0	< 0.50	< 0.50	< 0.50
06/03/10	< 50	< 50	< 0.50	< 0.50	< 0.50	< 0.50	0.56	< 0.50	< 5.0	< 0.50	< 0.50	< 0.50
12/20/10	< 50	< 50	< 0.50	< 0.50	< 0.50	< 0.50	0.61	0.67	< 5.0	< 0.50	< 0.50	< 0.50
06/30/11	< 50	< 50	1.6	< 0.50	< 0.50	< 0.50	< 0.50	1.0	< 5.0	< 0.50	< 0.50	< 0.50
06/22/12	< 50	< 50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 5.0	< 0.50	< 0.50	< 0.50
12/13/12	79	< 50	2.7	< 0.50	0.86	0.74	< 0.50	< 0.50	< 5.0	< 0.50	< 0.50	< 0.50
06/18/13	< 50	< 50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 5.0	< 0.50	< 0.50	< 0.50
12/23/13	< 50	< 50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.65	< 5.0	< 0.50	< 0.50	< 0.50
06/30/14	< 50	< 50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.70	< 5.0	< 0.50	< 0.50	< 0.50
12/17/14	100	< 50	21	0.56	< 0.50	< 0.50	< 0.50	1.2	< 5.0	< 0.50	< 0.50	< 0.50
06/23/15	< 50	< 50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.53	< 2.0	< 0.50	< 0.50	< 0.50
09/30/15	< 50	< 50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.54	< 2.0	< 0.50	< 0.50	< 0.50
01/08/16	2,800	610	660	6.7	< 5.0	20	< 5.0	< 5.0	100	< 5.0	< 5.0	< 5.0
06/09/16	< 50	< 50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	3.9	< 0.50	< 0.50	< 0.50

TABLE TWO
Summary of Chemical Analysis of Groundwater Samples
Petroleum Hydrocarbon Concentrations
All results are in parts per billion

Well/ Date Sampled	TPH Gasoline	TPH Diesel	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	DIPE	TBA	Other Oxys	EDC	EDB	
MW-6													
06/11/02	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	1.2	---	---	---	< 0.5	< 0.5	
09/17/02	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	1.0	---	---	---	< 0.5	< 0.5	
12/18/02	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	0.90	---	---	---	< 0.5	< 0.5	
03/25/03	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0	---	---	---	< 0.5	< 0.5	
06/23/03	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	---	---	---	< 0.5	< 0.5	
09/26/03	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	---	---	---	< 0.5	< 0.5	
12/18/03	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	---	---	---	< 0.5	< 0.5	
03/12/04	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	---	---	---	< 0.5	< 0.5	
06/17/04	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	---	---	---	< 0.5	< 0.5	
09/17/04	< 50	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	---	---	---	---	---	
11/10/04***	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0	---	---	---	---	---	
12/17/04	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	---	---	---	< 0.5	< 0.5	
04/28/05	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	
07/19/05	< 50	na	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0	< 0.5	< 0.5	< 0.5	
10/03/05	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0	< 0.5	< 0.5	< 0.5	
12/06/05	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0	---	---	---	---	---	
03/15/06	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	
06/28/06	< 50	< 50	< 0.5	< 0.5	< 0.5	0.65	< 0.5	< 0.5	< 5.0	< 0.5	< 0.5	< 0.5	
08/31/06	< 50	< 50	< 0.50	2.4	0.90	4.0	< 0.50	< 0.50	< 5.0	< 0.50	< 0.50	< 0.50	
11/21/06	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0	< 0.50	< 5.0	< 0.50	< 0.50	< 0.50	
02/23/07	< 50	< 50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 5.0	< 0.50	< 0.50	< 0.50	
05/02/07	< 50	< 50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 5.0	< 0.50	< 0.50	< 0.50	
08/09/07	< 50	< 50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 5.0	< 0.50	< 0.50	< 0.50	
12/06/07	< 50	< 50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 5.0	< 0.50	< 0.50	< 0.50	
02/26/08	< 50	< 50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 5.0	< 0.50	< 0.50	< 0.50	
05/30/08	< 50	< 50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 5.0	< 0.50	< 0.50	< 0.50	
08/28/08	< 50	< 50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 5.0	< 0.50	---	---	
12/11/08	< 50	< 50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 5.0	< 0.50	---	---	
03/31/09	< 50	< 50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 5.0	< 0.50	< 0.50	< 0.50	
12/31/09	< 50	< 50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 5.0	< 0.50	< 0.50	< 0.50	
06/03/10	< 50	< 50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 5.0	< 0.50	< 0.50	< 0.50	
12/20/10	< 50	< 50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 5.0	< 0.50	< 0.50	< 0.50	
06/30/11	< 50	< 50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 5.0	< 0.50	< 0.50	< 0.50	
06/22/12	< 50	< 50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 5.0	< 0.50	< 0.50	< 0.50	
12/13/12	< 50	< 50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 5.0	< 0.50	< 0.50	< 0.50	
06/18/13	< 50	< 50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 5.0	< 0.50	< 0.50	< 0.50	
12/23/13	< 50	< 50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 5.0	< 0.50	< 0.50	< 0.50	
06/30/14												No Longer Sampled	
12/17/14													No Longer Sampled
06/23/15													No Longer Sampled
09/30/15													No Longer Sampled
01/08/16													No Longer Sampled
06/09/16													No Longer Sampled

TABLE TWO
Summary of Chemical Analysis of Groundwater Samples
Petroleum Hydrocarbon Concentrations
All results are in parts per billion

Well/ Date Sampled	TPH Gasoline	TPH Diesel	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	DIPE	TBA	Other Oxys	EDC	EDB
MW-7												
06/25/02	38,000	< 2,000	890	5,100	1,200	5,200	< 20	---	---	---	< 20	< 20
09/17/02	26,000	< 2,000	590	3,600	880	4,000	< 20	---	---	---	< 20	< 20
12/18/02	NOT SAMPLED - CAR PARKED OVER WELL											
03/25/03	39,000	< 2,900	410	7,700	1,000	6,400	< 5.0	---	---	---	< 2.5	< 2.5
06/23/03	17,000	< 1,000	440	2,600	630	2,600	< 10	---	---	---	< 10	< 10
09/26/03	17,000	< 1,000	230	1,800	470	2,200	< 5.0	---	---	---	< 5.0	< 5.0
12/18/03	20,000	< 1,000	290	2,500	590	2,900	< 5.0	---	---	---	< 5.0	< 5.0
03/12/04	20,000	< 1,500	300	3,000	760	3,200	< 10	---	---	---	< 10	< 10
06/17/04	12,000	< 800	250	1,800	450	1,900	< 5.0	---	---	---	< 5.0	< 5.0
09/17/04	9,900	--	200	1,500	450	1,800	< 5.0	---	---	---	---	---
11/10/04***	20,000	1,900	550	4,200	920	4,000	< 500	---	---	---	---	---
12/17/04	14,000	< 800	220	1,700	530	2,000	< 3.0	---	---	---	< 3.0	< 3.0
04/28/05	13,000	< 300	84	1,000	660	2,200	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
07/19/05	16,000	na	170	1,800	540	2,200	< 2.5	< 2.5	< 5.0	< 2.5	< 2.5	< 2.5
10/03/05	7,400	< 200	140	710	350	1,100	< 0.50	< 0.50	< 5.0	< 0.50	< 0.50	< 0.50
12/06/05	22,000	< 600	240	2,300	800	3,400	< 5.0	---	---	---	---	---
03/15/06	3,800	< 200	4.6	160	120	620	< 0.50	< 0.50	< 5.0	< 0.50	< 0.50	< 0.50
06/28/06	6,400	< 500	19.0	340	490	940	< 0.90	< 0.50	< 5.0	< 0.50	< 0.90	< 0.90
08/31/06	20,000	< 600	160	2,200	1,300	3,500	< 2.5	1.4	< 15	< 5.0	< 2.5	< 2.5
11/21/06	21,000	< 1,000	240	2,500	880	3,400	< 5.0	< 5.0	< 25	< 5.0	< 5.0	< 5.0
02/23/07	10,000	< 200	150	1,300	580	2,400	< 2.5	< 2.5	< 15	< 2.5	< 2.5	< 2.5
05/02/07	26,000	< 1,000	300	2,400	1,800	6,700	< 2.5	< 2.5	< 50	< 2.5	< 2.5	< 2.5
08/09/07	13,000	< 800	250	800	1,000	3,000	< 2.5	< 2.5	< 15	< 2.5	< 2.5	< 2.5
12/06/07	9,600	< 1,000	160	850	530	2,000	< 2.5	< 2.5	45	< 2.5	< 2.5	< 2.5
02/26/08	14,000	< 800	190	1,000	740	3,000	< 2.5	< 2.5	69	< 2.5	< 2.5	< 2.5
05/30/08	9,900	< 200	160	620	590	2,300	< 2.5	< 2.5	< 15	< 2.5	< 2.5	< 2.5
08/28/08	11,000	< 800	180	500	650	2,400	< 2.5	< 2.5	< 15	< 2.5	---	---
12/11/08	8,000	< 500	160	300	540	1,600	< 2.5	< 2.5	< 15	< 2.5	---	---
03/31/09	5,600	< 300	82	190	360	1,000	< 1.5	< 1.5	< 7.0	< 1.5	< 1.5	< 1.5
12/31/09	16,000	< 800	140	1,200	750	2,800	< 0.5	< 0.50	10	< 0.50	< 0.50	< 0.50
06/03/10	22,000	< 2,000	160	1,000	1,300	3,500	< 5.0	< 5.0	< 25	< 5.0	< 5.0	< 5.0
12/20/10	23,000	< 1,000	230	820	1,500	4,900	< 5.0	< 5.0	< 25	< 5.0	< 5.0	< 5.0
06/30/11	26,000	< 4,000	190	310	1,800	3,900	< 5.0	< 5.0	< 25	< 5.0	< 5.0	< 5.0
06/22/12	10,000	< 600	120	52	1,100	310	< 2.0	< 2.0	43	< 2.0	< 2.0	< 2.0
12/13/12	16,000	610	78	80	1,000	940	< 2.5	< 2.5	< 15	< 2.5	< 2.5	< 2.5
06/18/13	6,000	250	19	22	310	390	< 0.90	< 0.90	6.3	< 0.90	< 0.90	< 0.90
12/23/13	2,200	290	6.8	5.2	15	78	< 0.50	< 0.50	10	< 0.50	< 0.50	< 0.50
06/30/14	2,700	380	12	7.3	83	63	< 0.50	< 0.50	32	< 0.50	< 0.50	< 0.50
12/17/14	3,300	700	3.0	8.3	31	200	< 0.50	< 0.50	14	< 0.50	< 0.50	< 0.50
06/23/15	440	180	< 0.50	0.50	2.7	4.9	< 0.50	< 0.50	5.3	< 0.50	< 0.50	< 0.50
09/30/15	700	610	2.6	2.2	7.2	13	< 0.50	< 0.50	27	< 0.50	< 0.50	< 0.50
01/08/16	480	470	1.3	0.63	6.6	16	< 0.50	< 0.50	9.5	< 0.50	< 0.50	< 0.50
06/09/16	1,200	330	1.5	2.2	24	44	< 0.50	< 0.50	9.8	< 0.50	< 0.50	< 0.50

TABLE TWO
Summary of Chemical Analysis of Groundwater Samples
Petroleum Hydrocarbon Concentrations
All results are in parts per billion

Well/ Date Sampled	TPH Gasoline	TPH Diesel	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	DIPE	TBA	Other Oxys	EDC	EDB
MW-8												
02/26/08	< 50	< 50	0.51	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 5.0	< 0.50	< 0.50	< 0.50
05/30/08	< 50	< 50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 5.0	< 0.50	< 0.50	< 0.50
08/28/08	< 50	< 50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 5.0	< 0.50	---	---
12/11/08	< 50	< 50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 5.0	< 0.50	---	---
03/31/09	< 50	< 50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 5.0	< 0.50	< 0.50	< 0.50
12/31/09	< 50	< 50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 5.0	< 0.50	< 0.50	< 0.50
06/03/10	< 50	< 50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 5.0	< 0.50	< 0.50	< 0.50
12/20/10	< 50	< 50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 5.0	< 0.50	< 0.50	< 0.50
06/30/11	< 50	< 50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 5.0	< 0.50	< 0.50	< 0.50
06/22/12	< 50	< 50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 5.0	< 0.50	< 0.50	< 0.50
12/13/12	< 50	56	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 5.0	< 0.50	< 0.50	< 0.50
06/18/13	< 50	83	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 5.0	< 0.50	< 0.50	< 0.50
12/23/13	< 50	< 50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 5.0	< 0.50	< 0.50	< 0.50
06/30/14												No Longer Sampled
12/17/14												No Longer Sampled
06/23/15												No Longer Sampled
09/30/15												No Longer Sampled
01/08/16												No Longer Sampled
06/09/16												No Longer Sampled
ESL	100	100	1	40	13	20	5	NE	12	NE	0.5	0.05

Notes:

* = Hydrocarbons reported are in the early diesel range, and do not match the laboratory standards.
** = Hydrocarbons reported do not match the laboratory gasoline standard.
*** = Grab sample - Not purged
= Estimated concentration reported due to overlapping fuel patterns.
/ = Results separated by a slash represent results from two different laboratory methods (8020/8260)
na = not analyzed
Non-detectable concentrations noted by the less than sign (<) followed by the detection limit.
Most recent data in bold.
ESL = Environmental screening levels prepared by the California Regional Water Quality Control Board, San Francisco Bay Region dated February 2016.

TPH = Total petroleum hydrocarbons EDC = 1,2-Dichloroethane
MTBE = Methyl tertiary butyl ether EDB = 1,2-Dibromoethane
DIPE = Diisopropyl ether
TBA = Tery-butanol
Oxy = Oxygenates

TABLE THREE
Groundwater Analytical Results
Oil & Grease and Volatile Organic Compounds
 All results are in parts per billion

Date Sampled & Compound Analyzed	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	MW-8
<u>7/8/97</u>								
Hydrocarbon Oil and Grease	-	< 1,000	-	-	-	-	-	-
Tetrachloroethane (PCE)	0.9	< 0.5	-	-	-	-	-	-
Other VOCs	< 0.5 - < 3	< 0.5 - < 3	-	-	-	-	-	-
<u>1/26/98</u>								
Hydrocarbon Oil and Grease	-	< 1,000	-	-	-	-	-	-
Trichloroethene	0.7	< 5.0	-	-	-	-	-	-
Tetrachloroethene	10	< 5.0	-	-	-	-	-	-
1,2-Dichloroethane	< 0.5	11	-	-	-	-	-	-
Other VOCs	< 0.5 - < 50	< 0.5 - < 50	-	-	-	-	-	-
<u>7/23/98</u>								
Hydrocarbon Oil and Grease	-	< 1,000	-	-	-	-	-	-
Tetrachloroethene	4	4.6	-	-	-	-	-	-
1,2-Dichloroethane	< 2	9.9	-	-	-	-	-	-
Other VOCs	< 2 - < 10	< 0.5 - < 5.0	-	-	-	-	-	-
<u>1/5/99</u>								
Hydrocarbon Oil and Grease	-	< 1,000	-	-	-	-	-	-
Tetrachloroethene	5.1	< 50	-	-	-	-	-	-
Trichloroethene	0.52	< 50	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	0.58	< 50	-	-	-	-	-	-
Chloroform	8.2	< 50	-	-	-	-	-	-
Other VOCs	< 0.5 - < 5	< 50 - < 500	-	-	-	-	-	-
<u>7/13/99</u>								
Hydrocarbon Oil and Grease	-	< 1,000	-	-	-	-	-	-
Tetrachloroethene	1.5	0.68	-	-	-	-	-	-
Chloroform	4.6	< 50	-	-	-	-	-	-
1,2-Dichloroethane	<0.50	7.7	-	-	-	-	-	-
Other VOCs	< 0.5 - < 5	< 0.5 - < 500	-	-	-	-	-	-
<u>1/12/00</u>								
Hydrocarbon Oil and Grease	-	< 1,000	< 1,000	< 1,000	-	-	-	-
Tetrachloroethene	0.8	< 1.0	< 100	< 50	-	-	-	-
Chloroform	3.2	< 1.0	< 100	< 50	-	-	-	-
1,2-Dichloroethane	<0.50	8.8	120	140	-	-	-	-
Acetone	-	-	25,000	6,400	-	-	-	-
Naphthalene	-	-	550	540	-	-	-	-
Isopropylbenzene	-	-	120	89	-	-	-	-
Other VOCs	< 0.5 - < 5.0	< 1.0 - < 4.0	< 100 - < 10,000	< 50 - < 5,000	-	-	-	-
<u>4/24/00</u>								
Hydrocarbon Oil and Grease	-	<1,000	4,100	< 1,000	-	-	-	-
1,2-Dichloroethane	< 0.5	5.9	< 1,000	< 250	-	-	-	-
Naphthalene	-	-	3,800	590	-	-	-	-
Isopropylbenzene	-	-	1,200	< 250	-	-	-	-
Other VOCs	< 0.5 - < 5.0	< 5.0 - < 20	1,000 - < 100,000	250 - < 25,000	-	-	-	-
<u>7/20/00</u>								
Hydrocarbon Oil and Grease	-	< 1,000	-	< 1,000	-	-	-	-
Tetrachloroethene	0.59	< 5.0	FREE	< 200	-	-	-	-
Chloroform	2.1	< 5.0	PRODUCT	< 200	-	-	-	-
1,2-Dichloroethane	< 0.5	6.7	---	< 200	-	-	-	-
Acetone	-	-	NOT	< 20,000	-	-	-	-
Naphthalene	-	-	SAMPLED	730	-	-	-	-
Other VOCs	< 0.5 - < 20	< 5.0 - < 20	-	< 250 - < 20,000	-	-	-	-
<u>10/24/00</u>								
Hydrocarbon Oil and Grease	-	< 1,000	FREE	< 1,000	-	-	-	-
Tetrachloroethene	< 0.5	< 5.0	PRODUCT	< 250	-	-	-	-
Chloroform	1.0	< 5.0	NOT	< 250	-	-	-	-
Other VOCs	< 0.5 - < 20	< 5.0 - < 20	SAMPLED	< 250 - < 25,000	-	-	-	-
<u>1/18/01</u>								
Hydrocarbon Oil and Grease	-	2,100	FREE	1,300	-	-	-	-
Tetrachloroethene	1.3	< 5.0	---	< 250	-	-	-	-
Chloroform	6.4	< 5.0	NOT	< 250	-	-	-	-
Other VOCs	< 0.5 - < 20	< 5.0 - < 20	SAMPLED	< 250 - < 25,000	-	-	-	-

TABLE THREE
Groundwater Analytical Results
Oil & Grease and Volatile Organic Compounds
 All results are in parts per billion

Date Sampled & Compound Analyzed	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	MW-8
<u>4/5/01</u>								
Hydrocarbon Oil and Grease	-	< 1.0	FREE	1,100.0	-	-	-	-
Tetrachloroethene	< 0.5	1.1	PRODUCT	< 50	-	-	-	-
1,2 dichloroethane	< 0.5	4.6	---	< 50	-	-	-	-
Trichloroethene	< 0.5	0.58	NOT	< 50	-	-	-	-
Naphthalene	-	-	---	320	-	-	-	-
Other VOCs	< 0.5 - < 2.0	< 5.0 - < 20	SAMPLED	< 50 - < 5,000	-	-	-	-
<u>7/17/01</u>								
Hydrocarbon Oil and Grease	-	< 500	FREE	< 500	-	-	-	-
Tetrachloroethene	-	-	PRODUCT	-	-	-	-	-
1,2 dichloroethane	< 0.5	< 50	---	69.0	-	-	-	-
Trichloroethene	-	-	NOT	-	-	-	-	-
Naphthalene	-	-	---	-	-	-	-	-
Other VOCs	-	-	SAMPLED	-	-	-	-	-



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APPENDIX A

Well Sampling Field Log

AQUA SCIENCE ENGINEERS

WELL SAMPLING FIELD LOG

PROJECT NAME Lim

JOB NUMBER 2808 DATE OF SAMPLING 6-9-16

WELL ID. MW-1 SAMPLER RK

TOTAL DEPTH OF WELL 26.80 WELL DIAMETER 2"

DEPTH TO WATER PRIOR TO PURGING 18.05 TIME OF MEASUREMENT

PRODUCT THICKNESS 0

DEPTH OF WELL CASING IN WATER 8.75

NUMBER OF GALLONS PER WELL CASING VOLUME 1.5

NUMBER OF WELL CASING VOLUMES TO BE REMOVED 3

REQUIRED VOLUME OF GROUNDWATER TO BE PURGED PRIOR TO SAMPLING 4.5 gal

EQUIPMENT USED TO PURGE WELL NEW DISPOSABLE BAILER

TIME EVACUATION STARTED 1205 TIME EVACUATION COMPLETED 1235

TIME SAMPLES WERE COLLECTED 1240

DID WELL GO DRY NO AFTER HOW MANY GALLONS —

VOLUME OF GROUNDWATER PURGED 4.5 gal

SAMPLING DEVICE NEW DISPOSABLE BAILER

SAMPLE COLOR clear ODOR/SEDIMENT None/None

CHEMICAL DATA

VOLUME PURGED	TEMPERATURE	PH	CONDUCTIVITY
1	20.5	5.5	990
2	20.6	5.6	900
3	20.6	5.6	900

SAMPLES COLLECTED

SAMPLE	# OF CONTAINERS	SIZE AND TYPE OF CONTAINER	ANALYSIS	PRESERVED
MW-1	5	40-ml VOA	8260B	H4

AQUA SCIENCE ENGINEERS

WELL SAMPLING FIELD LOG

PROJECT NAME Lim

JOB NUMBER 2808 DATE OF SAMPLING 6-9-16

WELL ID. MW-2 SAMPLER PK

TOTAL DEPTH OF WELL 26.80 WELL DIAMETER 2

DEPTH TO WATER PRIOR TO PURGING 17.17 TIME OF MEASUREMENT

PRODUCT THICKNESS

DEPTH OF WELL CASING IN WATER 9.63

NUMBER OF GALLONS PER WELL CASING VOLUME 1.6

NUMBER OF WELL CASING VOLUMES TO BE REMOVED 3

REQUIRED VOLUME OF GROUNDWATER TO BE PURGED PRIOR TO SAMPLING 4.8 gal

EQUIPMENT USED TO PURGE WELL NEW DISPOSABLE BAILER

TIME EVACUATION STARTED 1430 TIME EVACUATION COMPLETED 1455

TIME SAMPLES WERE COLLECTED 1500

DID WELL GO DRY NO AFTER HOW MANY GALLONS —

VOLUME OF GROUNDWATER PURGED 4.8 gal

SAMPLING DEVICE NEW DISPOSABLE BAILER

SAMPLE COLOR clear ODOR/SEDIMENT mod hc / none

CHEMICAL DATA

VOLUME PURGED	TEMPERATURE	PH	CONDUCTIVITY
<u>1</u>	<u>19.9</u>	<u>5.6</u>	<u>850</u>
<u>2</u>	<u>19.9</u>	<u>5.7</u>	<u>790</u>
<u>3</u>	<u>17.9</u>	<u>5.7</u>	<u>780</u>

SAMPLES COLLECTED

SAMPLE	# OF CONTAINERS	SIZE AND TYPE OF CONTAINER	ANALYSIS	PRESERVED
<u>MW-2</u>	<u>5</u>	<u>40-ml VOA</u>	<u>820B</u>	<u>HY</u>

AQUA SCIENCE ENGINEERS

WELL SAMPLING FIELD LOG

PROJECT NAME Lim

JOB NUMBER 2808 DATE OF SAMPLING 6-9-15

WELL ID. MW-3 SAMPLER RK

TOTAL DEPTH OF WELL 30.0 WELL DIAMETER 2"

DEPTH TO WATER PRIOR TO PURGING 17.17 TIME OF MEASUREMENT

PRODUCT THICKNESS sheen

DEPTH OF WELL CASING IN WATER 12.83

NUMBER OF GALLONS PER WELL CASING VOLUME 2.1

NUMBER OF WELL CASING VOLUMES TO BE REMOVED 3

REQUIRED VOLUME OF GROUNDWATER TO BE PURGED PRIOR TO SAMPLING 6.3

EQUIPMENT USED TO PURGE WELL NEW DISPOSABLE BAILER

TIME EVACUATION STARTED 1315 TIME EVACUATION COMPLETED 1340

TIME SAMPLES WERE COLLECTED 1340

DID WELL GO DRY No AFTER HOW MANY GALLONS —

VOLUME OF GROUNDWATER PURGED 6.3 gal

SAMPLING DEVICE NEW DISPOSABLE BAILER

SAMPLE COLOR black ODOR/SEDIMENT v. strong / black sediment

CHEMICAL DATA

VOLUME PURGED	TEMPERATURE	PH	CONDUCTIVITY
<u>Not collected due to sheen</u>			

SAMPLES COLLECTED

SAMPLE	# OF CONTAINERS	SIZE AND TYPE OF CONTAINER	ANALYSIS	PRESERVED
<u>MW-3</u>	<u>5</u>	<u>40-ml VOA</u>	<u>8260B/8015</u>	<u>HCl</u>

AQUA SCIENCE ENGINEERS

WELL SAMPLING FIELD LOG

PROJECT NAME Lim

JOB NUMBER 2808 DATE OF SAMPLING 6-9-16

WELL ID. MW-4R SAMPLER RK

TOTAL DEPTH OF WELL 280 WELL DIAMETER 4"

DEPTH TO WATER PRIOR TO PURGING 17.65 TIME OF MEASUREMENT

PRODUCT THICKNESS ⊕

DEPTH OF WELL CASING IN WATER 10.35

NUMBER OF GALLONS PER WELL CASING VOLUME 6.8

NUMBER OF WELL CASING VOLUMES TO BE REMOVED 3

REQUIRED VOLUME OF GROUNDWATER TO BE PURGED PRIOR TO SAMPLING 20.4 gal

EQUIPMENT USED TO PURGE WELL NEW DISPOSABLE BAILER

TIME EVACUATION STARTED 10:15 TIME EVACUATION COMPLETED 11:05

TIME SAMPLES WERE COLLECTED 11:10

DID WELL GO DRY No AFTER HOW MANY GALLONS —

VOLUME OF GROUNDWATER PURGED 20.4 gal

SAMPLING DEVICE NEW DISPOSABLE BAILER

SAMPLE COLOR None ODOR/SEDIMENT slight hcl/no silt

CHEMICAL DATA

VOLUME PURGED	TEMPERATURE	PH	CONDUCTIVITY
<u>1</u>	<u>21.1</u>	<u>5.3</u>	<u>600</u>
<u>2</u>	<u>20.8</u>	<u>6.1</u>	<u>680</u>
<u>3</u>	<u>20.7</u>	<u>6.1</u>	<u>690</u>

SAMPLES COLLECTED

SAMPLE	# OF CONTAINERS	SIZE AND TYPE OF CONTAINER	ANALYSIS	PRESERVED
<u>MW-4R</u>	<u>5</u>	<u>40-ml VOA</u>	<u>82608</u>	<u>HCl</u>

AQUA SCIENCE ENGINEERS

WELL SAMPLING FIELD LOG

PROJECT NAME <u>Lim</u>	
JOB NUMBER <u>2808</u>	DATE OF SAMPLING <u>6-9-15</u>
WELL ID. <u>MW-5</u>	SAMPLER <u>PK</u>
TOTAL DEPTH OF WELL <u>29.6</u>	WELL DIAMETER <u>2"</u>
DEPTH TO WATER PRIOR TO PURGING <u>17.40</u>	TIME OF MEASUREMENT
PRODUCT THICKNESS <u>A</u>	
DEPTH OF WELL CASING IN WATER <u>12.2</u>	
NUMBER OF GALLONS PER WELL CASING VOLUME <u>2.0</u>	
NUMBER OF WELL CASING VOLUMES TO BE REMOVED <u>3</u>	
REQUIRED VOLUME OF GROUNDWATER TO BE PURGED PRIOR TO SAMPLING <u>6 gal</u>	
EQUIPMENT USED TO PURGE WELL	<u>NEW DISPOSABLE BAILER</u>
TIME EVACUATION STARTED <u>800</u>	TIME EVACUATION COMPLETED <u>830</u>
TIME SAMPLES WERE COLLECTED <u>835</u>	
DID WELL GO DRY <u>No</u>	AFTER HOW MANY GALLONS <u>—</u>
VOLUME OF GROUNDWATER PURGED <u>6 gal</u>	
SAMPLING DEVICE	<u>NEW DISPOSABLE BAILER</u>
SAMPLE COLOR <u>clear</u>	ODOR/SEDIMENT <u>None / None</u>

CHEMICAL DATA

VOLUME PURGED	TEMPERATURE	PH	CONDUCTIVITY
<u>1</u>	<u>19.9</u>	<u>5.1</u>	<u>550</u>
<u>2</u>	<u>19.9</u>	<u>6.1</u>	<u>560</u>
<u>3</u>	<u>19.9</u>	<u>6.2</u>	<u>550</u>

SAMPLES COLLECTED

SAMPLE	# OF CONTAINERS	SIZE AND TYPE OF CONTAINER	ANALYSIS	PRESERVED
<u>MW-5</u>	<u>5</u>	<u>40-ml VOA</u>	<u>8260B</u>	<u>H41</u>

AQUA SCIENCE ENGINEERS

WELL SAMPLING FIELD LOG

PROJECT NAME Lim

JOB NUMBER 2808 DATE OF SAMPLING 6-9-16

WELL ID. MW-7 SAMPLER RK

TOTAL DEPTH OF WELL 28.0 WELL DIAMETER 2"

DEPTH TO WATER PRIOR TO PURGING 18.00 TIME OF MEASUREMENT

PRODUCT THICKNESS 0

DEPTH OF WELL CASING IN WATER 10.0

NUMBER OF GALLONS PER WELL CASING VOLUME 1.7

NUMBER OF WELL CASING VOLUMES TO BE REMOVED 3

REQUIRED VOLUME OF GROUNDWATER TO BE PURGED PRIOR TO SAMPLING 5.1 gal

EQUIPMENT USED TO PURGE WELL NEW DISPOSABLE BAILER

TIME EVACUATION STARTED 910 TIME EVACUATION COMPLETED 940

TIME SAMPLES WERE COLLECTED 945

DID WELL GO DRY No AFTER HOW MANY GALLONS —

VOLUME OF GROUNDWATER PURGED 5.1 gal

SAMPLING DEVICE NEW DISPOSABLE BAILER

SAMPLE COLOR clear ODOR/SEDIMENT slight hc / none

CHEMICAL DATA

VOLUME PURGED	TEMPERATURE	PH	CONDUCTIVITY
<u>1</u>	<u>20.0</u>	<u>5.7</u>	<u>480</u>
<u>2</u>	<u>20.1</u>	<u>6.1</u>	<u>490</u>
<u>3</u>	<u>20.1</u>	<u>6.2</u>	<u>490</u>

SAMPLES COLLECTED

SAMPLE	# OF CONTAINERS	SIZE AND TYPE OF CONTAINER	ANALYSIS	PRESERVED
<u>MW-7</u>	<u>5</u>	<u>40-ml VOA</u>	<u>8260B</u>	<u>HCl</u>



Aqua Science Engineers, Inc. 1460 Washington Blvd, Suite A2011, Concord, CA 94521
(925) 820-9391

APPENDIX B

Certified Analytical Report
and
Chain of Custody Documentation



McC Campbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1606613

Report Created for: Aqua Science Engineers, Inc.
55 Oak Court Suite 220
Danville, CA 94526

Project Contact: Robert Kitay
Project P.O.:
Project Name: 2808; Lim

Project Received: 06/14/2016

Analytical Report reviewed & approved for release on 06/20/2016 by:

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: Aqua Science Engineers, Inc.
Project: 2808; Lim
WorkOrder: 1606613

Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
M	Estimate Maximum Possible Concentration
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)



Glossary of Terms & Qualifier Definitions

Client: Aqua Science Engineers, Inc.
Project: 2808; Lim
WorkOrder: 1606613

Analytical Qualifiers

b6 lighter than water immiscible sheen/product is present
e4/e11 gasoline range compounds are significant.; and/or stoddard solvent/mineral spirit (?)
e11 stoddard solvent/mineral spirit (?)



Analytical Report

Client: Aqua Science Engineers, Inc.
Date Received: 6/14/16 17:36
Date Prepared: 6/17/16
Project: 2808; Lim

WorkOrder: 1606613
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L

Oxygenates, MBTEX & Lead Scavengers by GC/MS

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
MW-1	1606613-001B	Water	06/09/2016 12:40	GC10	122372

Analytes	Result	RL	DF	Date Analyzed
tert-Amyl methyl ether (TAME)	ND	0.50	1	06/17/2016 15:34
Benzene	2.1	0.50	1	06/17/2016 15:34
t-Butyl alcohol (TBA)	7.3	2.0	1	06/17/2016 15:34
1,2-Dibromoethane (EDB)	ND	0.50	1	06/17/2016 15:34
1,2-Dichloroethane (1,2-DCA)	ND	0.50	1	06/17/2016 15:34
Diisopropyl ether (DIPE)	0.77	0.50	1	06/17/2016 15:34
Ethylbenzene	ND	0.50	1	06/17/2016 15:34
Ethyl tert-butyl ether (ETBE)	ND	0.50	1	06/17/2016 15:34
Methyl-t-butyl ether (MTBE)	ND	0.50	1	06/17/2016 15:34
Toluene	ND	0.50	1	06/17/2016 15:34
Xylenes, Total	1.2	0.50	1	06/17/2016 15:34

Surrogates	REC (%)	Limits	Date Analyzed
Dibromofluoromethane	94	70-130	06/17/2016 15:34
Toluene-d8	97	70-130	06/17/2016 15:34

Analyst(s): KF

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
MW-2	1606613-002B	Water	06/09/2016 15:00	GC28	122372

Analytes	Result	RL	DF	Date Analyzed
tert-Amyl methyl ether (TAME)	ND	120	250	06/17/2016 16:11
Benzene	8100	120	250	06/17/2016 16:11
t-Butyl alcohol (TBA)	ND	500	250	06/17/2016 16:11
1,2-Dibromoethane (EDB)	ND	120	250	06/17/2016 16:11
1,2-Dichloroethane (1,2-DCA)	ND	120	250	06/17/2016 16:11
Diisopropyl ether (DIPE)	ND	120	250	06/17/2016 16:11
Ethylbenzene	ND	120	250	06/17/2016 16:11
Ethyl tert-butyl ether (ETBE)	ND	120	250	06/17/2016 16:11
Methyl-t-butyl ether (MTBE)	ND	120	250	06/17/2016 16:11
Toluene	ND	120	250	06/17/2016 16:11
Xylenes, Total	ND	120	250	06/17/2016 16:11

Surrogates	REC (%)	Limits	Date Analyzed
Dibromofluoromethane	95	70-130	06/17/2016 16:11
Toluene-d8	94	70-130	06/17/2016 16:11

Analyst(s): KF

(Cont.)

NELAP 4033ORELAP

 Angela Rydelius, Lab Manager



Analytical Report

Client: Aqua Science Engineers, Inc.
Date Received: 6/14/16 17:36
Date Prepared: 6/17/16
Project: 2808; Lim

WorkOrder: 1606613
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L

Oxygenates, MBTEX & Lead Scavengers by GC/MS

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
MW-3	1606613-003B	Water	06/09/2016 13:40	GC28	122372

Analytes	Result	RL	DF	Date Analyzed
tert-Amyl methyl ether (TAME)	ND	120	250	06/17/2016 16:50
Benzene	6000	120	250	06/17/2016 16:50
t-Butyl alcohol (TBA)	ND	500	250	06/17/2016 16:50
1,2-Dibromoethane (EDB)	ND	120	250	06/17/2016 16:50
1,2-Dichloroethane (1,2-DCA)	ND	120	250	06/17/2016 16:50
Diisopropyl ether (DIPE)	ND	120	250	06/17/2016 16:50
Ethylbenzene	1400	120	250	06/17/2016 16:50
Ethyl tert-butyl ether (ETBE)	ND	120	250	06/17/2016 16:50
Methyl-t-butyl ether (MTBE)	ND	120	250	06/17/2016 16:50
Toluene	1200	120	250	06/17/2016 16:50
Xylenes, Total	11,000	120	250	06/17/2016 16:50

Surrogates	REC (%)	Limits	Date Analyzed
Dibromofluoromethane	96	70-130	06/17/2016 16:50
Toluene-d8	95	70-130	06/17/2016 16:50

Analyst(s): KF

Analytical Comments: b6

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
MW-4R	1606613-004B	Water	06/09/2016 11:10	GC16	122372

Analytes	Result	RL	DF	Date Analyzed
tert-Amyl methyl ether (TAME)	ND	50	100	06/17/2016 00:04
Benzene	2600	50	100	06/17/2016 00:04
t-Butyl alcohol (TBA)	ND	200	100	06/17/2016 00:04
1,2-Dibromoethane (EDB)	ND	50	100	06/17/2016 00:04
1,2-Dichloroethane (1,2-DCA)	ND	50	100	06/17/2016 00:04
Diisopropyl ether (DIPE)	ND	50	100	06/17/2016 00:04
Ethylbenzene	120	50	100	06/17/2016 00:04
Ethyl tert-butyl ether (ETBE)	ND	50	100	06/17/2016 00:04
Methyl-t-butyl ether (MTBE)	ND	50	100	06/17/2016 00:04
Toluene	ND	50	100	06/17/2016 00:04
Xylenes, Total	140	50	100	06/17/2016 00:04

Surrogates	REC (%)	Limits	Date Analyzed
Dibromofluoromethane	94	70-130	06/17/2016 00:04
Toluene-d8	86	70-130	06/17/2016 00:04

Analyst(s): KF

(Cont.)

NELAP 4033ORELAP

Angela Rydelius, Lab Manager



Analytical Report

Client: Aqua Science Engineers, Inc.
Date Received: 6/14/16 17:36
Date Prepared: 6/17/16
Project: 2808; Lim

WorkOrder: 1606613
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L

Oxygenates, MBTEX & Lead Scavengers by GC/MS

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
MW-5	1606613-005B	Water	06/09/2016 08:35	GC16	122372

Analytes	Result	RL	DF	Date Analyzed
tert-Amyl methyl ether (TAME)	ND	0.50	1	06/17/2016 00:44
Benzene	ND	0.50	1	06/17/2016 00:44
t-Butyl alcohol (TBA)	3.9	2.0	1	06/17/2016 00:44
1,2-Dibromoethane (EDB)	ND	0.50	1	06/17/2016 00:44
1,2-Dichloroethane (1,2-DCA)	ND	0.50	1	06/17/2016 00:44
Diisopropyl ether (DIPE)	ND	0.50	1	06/17/2016 00:44
Ethylbenzene	ND	0.50	1	06/17/2016 00:44
Ethyl tert-butyl ether (ETBE)	ND	0.50	1	06/17/2016 00:44
Methyl-t-butyl ether (MTBE)	ND	0.50	1	06/17/2016 00:44
Toluene	ND	0.50	1	06/17/2016 00:44
Xylenes, Total	ND	0.50	1	06/17/2016 00:44
Surrogates	REC (%)	Limits		
Dibromofluoromethane	92	70-130		06/17/2016 00:44
Toluene-d8	88	70-130		06/17/2016 00:44

Analyst(s): KF

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
MW-7	1606613-006B	Water	06/09/2016 09:45	GC28	122372

Analytes	Result	RL	DF	Date Analyzed
tert-Amyl methyl ether (TAME)	ND	0.50	1	06/17/2016 17:28
Benzene	1.5	0.50	1	06/17/2016 17:28
t-Butyl alcohol (TBA)	9.8	2.0	1	06/17/2016 17:28
1,2-Dibromoethane (EDB)	ND	0.50	1	06/17/2016 17:28
1,2-Dichloroethane (1,2-DCA)	ND	0.50	1	06/17/2016 17:28
Diisopropyl ether (DIPE)	ND	0.50	1	06/17/2016 17:28
Ethylbenzene	24	0.50	1	06/17/2016 17:28
Ethyl tert-butyl ether (ETBE)	ND	0.50	1	06/17/2016 17:28
Methyl-t-butyl ether (MTBE)	ND	0.50	1	06/17/2016 17:28
Toluene	2.2	0.50	1	06/17/2016 17:28
Xylenes, Total	44	0.50	1	06/17/2016 17:28
Surrogates	REC (%)	Limits		
Dibromofluoromethane	96	70-130		06/17/2016 17:28
Toluene-d8	94	70-130		06/17/2016 17:28

Analyst(s): KF



Analytical Report

Client: Aqua Science Engineers, Inc.
Date Received: 6/14/16 17:36
Date Prepared: 6/16/16-6/17/16
Project: 2808; Lim

WorkOrder: 1606613
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L

TPH(g) by Purge & Trap and GC/MS

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
MW-1	1606613-001B	Water	06/09/2016 12:40	GC10	122372
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH(g)	340		50	1	06/17/2016 15:34
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
Dibromofluoromethane	107		70-130		06/17/2016 15:34
<u>Analyst(s):</u> KF					

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
MW-2	1606613-002B	Water	06/09/2016 15:00	GC16	122372
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH(g)	21,000		5000	100	06/16/2016 22:44
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
Dibromofluoromethane	107		70-130		06/16/2016 22:44
<u>Analyst(s):</u> KF					

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
MW-3	1606613-003B	Water	06/09/2016 13:40	GC16	122372
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH(g)	73,000		5000	100	06/16/2016 23:24
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
Dibromofluoromethane	108		70-130		06/16/2016 23:24
<u>Analyst(s):</u> KF					

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
MW-4R	1606613-004B	Water	06/09/2016 11:10	GC16	122372
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH(g)	7600		5000	100	06/17/2016 00:04
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
Dibromofluoromethane	109		70-130		06/17/2016 00:04
<u>Analyst(s):</u> KF					

(Cont.)

NELAP 4033ORELAP

 Angela Rydelius, Lab Manager



Analytical Report

Client: Aqua Science Engineers, Inc.
Date Received: 6/14/16 17:36
Date Prepared: 6/16/16-6/17/16
Project: 2808; Lim

WorkOrder: 1606613
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L

TPH(g) by Purge & Trap and GC/MS

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
MW-5	1606613-005B	Water	06/09/2016 08:35	GC16	122372

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	50	1	06/17/2016 00:44

Surrogates	REC (%)	Limits	Date Analyzed
Dibromofluoromethane	108	70-130	06/17/2016 00:44

Analyst(s): KF

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
MW-7	1606613-006B	Water	06/09/2016 09:45	GC16	122372

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	1200	500	10	06/17/2016 01:24

Surrogates	REC (%)	Limits	Date Analyzed
Dibromofluoromethane	109	70-130	06/17/2016 01:24

Analyst(s): KF



Analytical Report

Client: Aqua Science Engineers, Inc.
Date Received: 6/14/16 17:36
Date Prepared: 6/14/16
Project: 2808; Lim

WorkOrder: 1606613
Extraction Method: SW3510C/3630C
Analytical Method: SW8015B
Unit: µg/L

Total Extractable Petroleum Hydrocarbons with Silica Gel Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
MW-1	1606613-001A	Water	06/09/2016 12:40	GC2A	122295
<u>Analytes</u>					
TPH-Diesel (C10-C23)	200		RL 50	DF 1	Date Analyzed 06/15/2016 17:09
<u>Surrogates</u>					
C9	97		Limits 70-130		06/15/2016 17:09
<u>Analyst(s):</u> TK			<u>Analytical Comments:</u> e11		

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
MW-2	1606613-002A	Water	06/09/2016 15:00	GC2B	122295
<u>Analytes</u>					
TPH-Diesel (C10-C23)	1400		RL 50	DF 1	Date Analyzed 06/15/2016 22:14
<u>Surrogates</u>					
C9	107		Limits 70-130		06/15/2016 22:14
<u>Analyst(s):</u> TK			<u>Analytical Comments:</u> e4/e11		

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
MW-3	1606613-003A	Water	06/09/2016 13:40	GC2A	122295
<u>Analytes</u>					
TPH-Diesel (C10-C23)	40,000		RL 2500	DF 50	Date Analyzed 06/15/2016 15:22
<u>Surrogates</u>					
C26	108		Limits 70-130		06/15/2016 15:22
<u>Analyst(s):</u> TK			<u>Analytical Comments:</u> e11,b6		

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
MW-4R	1606613-004A	Water	06/09/2016 11:10	GC2B	122295
<u>Analytes</u>					
TPH-Diesel (C10-C23)	660		RL 50	DF 1	Date Analyzed 06/15/2016 23:30
<u>Surrogates</u>					
C9	107		Limits 70-130		06/15/2016 23:30
<u>Analyst(s):</u> TK			<u>Analytical Comments:</u> e4/e11		



Analytical Report

Client: Aqua Science Engineers, Inc.
Date Received: 6/14/16 17:36
Date Prepared: 6/14/16
Project: 2808; Lim

WorkOrder: 1606613
Extraction Method: SW3510C/3630C
Analytical Method: SW8015B
Unit: µg/L

Total Extractable Petroleum Hydrocarbons with Silica Gel Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
MW-5	1606613-005A	Water	06/09/2016 08:35	GC2B	122295

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	50	1	06/16/2016 00:46

Surrogates	REC (%)	Limits	Date Analyzed
C9	106	70-130	06/16/2016 00:46

Analyst(s): TK

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
MW-7	1606613-006A	Water	06/09/2016 09:45	GC2B	122295

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	330	50	1	06/16/2016 02:02

Surrogates	REC (%)	Limits	Date Analyzed
C9	107	70-130	06/16/2016 02:02

Analyst(s): TK

Analytical Comments: e4/e11



Quality Control Report

Client: Aqua Science Engineers, Inc.
Date Prepared: 6/16/16
Date Analyzed: 6/16/16
Instrument: GC16
Matrix: Water
Project: 2808; Lim

WorkOrder: 1606613
BatchID: 122372
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L
Sample ID: MB/LCS-122372
 1606612-002AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
tert-Amyl methyl ether (TAME)	ND	8.19	0.50	10	-	82	54-140
Benzene	ND	9.56	0.50	10	-	96	47-158
t-Butyl alcohol (TBA)	ND	27.1	2.0	40	-	68	42-140
1,2-Dibromoethane (EDB)	ND	7.74	0.50	10	-	77	44-155
1,2-Dichloroethane (1,2-DCA)	ND	8.46	0.50	10	-	85	66-125
Diisopropyl ether (DIPE)	ND	9.12	0.50	10	-	91	57-136
Ethylbenzene	ND	9.79	0.50	10	-	98	60-152
Ethyl tert-butyl ether (ETBE)	ND	9.19	0.50	10	-	92	55-137
Methyl-t-butyl ether (MTBE)	ND	8.68	0.50	10	-	87	53-139
Toluene	ND	8.78	0.50	10	-	88	52-137
Xylenes, Total	ND	-	0.50	-	-	-	-
Surrogate Recovery							
Dibromofluoromethane	23.1	23.4		25	92	93	70-130
Toluene-d8	21.5	21.1		25	86	85	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
tert-Amyl methyl ether (TAME)	8.52	8.67	10	ND	85	87	69-139	1.67	20
Benzene	9.52	9.50	10	ND	95	95	69-141	0	20
t-Butyl alcohol (TBA)	32.1	33.4	40	ND	80	83	41-152	3.94	20
1,2-Dibromoethane (EDB)	8.15	8.12	10	ND	81	81	76-135	0	20
1,2-Dichloroethane (1,2-DCA)	8.59	8.74	10	ND	86	87	73-139	1.75	20
Diisopropyl ether (DIPE)	9.25	9.31	10	ND	92	93	72-140	0.689	20
Ethylbenzene	9.54	9.48	10	ND	95	95	73-128	0	20
Ethyl tert-butyl ether (ETBE)	9.42	9.57	10	ND	94	96	71-140	1.55	20
Methyl-t-butyl ether (MTBE)	8.99	9.32	10	0.5119	85	88	73-139	3.53	20
Toluene	8.78	8.65	10	ND	88	87	71-128	1.51	20
Surrogate Recovery									
Dibromofluoromethane	23.5	23.8	25		94	95	73-131	0.993	20
Toluene-d8	21.0	21.1	25		84	84	72-117	0	20

CLIENT: Aqua Science Engineers, Inc.

Work Order: 1606613

Project: 2808; Lim

ANALYTICAL QC SUMMARY REPORT

BatchID: 122372

SampleID MB-122372	TestCode: 8260GAS_W	Units: µg/L	Prep Date: 6/16/2016
Batch ID: 122372	TestNo: SW8260B	Run ID: GC16_160617B	Analysis Date: 6/16/2016
Analyte	Result	PQL SPKValue SPKRefVal %REC Limits	RPDRefVal %RPD RPDLimit Qual

TPH(g)	ND	50	-
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Surrogate Recovery

Dibromofluoromethane	26.8	25	107	70 - 130
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Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range

CLIENT: Aqua Science Engineers, Inc.

ANALYTICAL QC SUMMARY REPORT

Work Order: 1606613

Project: 2808; Lim

BatchID: 122372

SampleID	LCS-122372	TestCode:	8260GAS_W	Units:	µg/L	Prep Date:	6/16/2016			
Batch ID:	122372	TestNo:	SW8260B	Run ID:	GC16_160617B	Analysis Date:	6/16/2016			
Analyte	Result	PQL	SPKValue	SPKRefVal	%REC	Limits	RPDRefVal	%RPD	RPDLimit	Qual

VOC (C6-C12)	564	50	644	0	88	70 - 130				
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Surrogate Recovery

Dibromofluoromethane	27.2		25		109	70 - 130				
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Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range



Quality Control Report

Client: Aqua Science Engineers, Inc.	WorkOrder: 1606613
Date Prepared: 6/14/16	BatchID: 122295
Date Analyzed: 6/15/16	Extraction Method: SW3510C/3630C
Instrument: GC39B	Analytical Method: SW8015B
Matrix: Water	Unit: µg/L
Project: 2808; Lim	Sample ID: MB/LCS/LCSD-122295

QC Report for SW8015B w/SG Clean-Up

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
TPH-Diesel (C10-C23)	ND	50	-	-	-
TPH-Motor Oil (C18-C36)	ND	250	-	-	-
Surrogate Recovery					
C9	590		625	94	65-122

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
TPH-Diesel (C10-C23)	1160	1140	1000	116	114	59-151	2.06	30
Surrogate Recovery								
C9	589	581	625	94	93	65-122	1.28	30



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

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1606613

ClientCode: ASED

WaterTrax
 WriteOn
 EDF
 Excel
 EQUIS
 Email
 HardCopy
 ThirdParty
 J-flag

Report to:
 Robert Kitay
 Aqua Science Engineers, Inc.
 55 Oak Court Suite 220
 Danville, CA 94526
 (925) 820-9391 FAX: (925) 837-4853

Email: rkitay@aquascienceengineers.com
 cc/3rd Party:
 PO:
 ProjectNo: 2808; Lim

Bill to:
 Diane Schiell
 Aqua Science Engineers, Inc.
 217 Wild Flower Drive
 Roseville, CA 95678
 deezthng22@yahoo.com

Requested TAT: 5 days;

Date Received: 06/14/2016
Date Logged: 06/14/2016

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	
1606613-001	MW-1	Water	6/9/2016 12:40	<input type="checkbox"/>	B	B	A	A									
1606613-002	MW-2	Water	6/9/2016 15:00	<input type="checkbox"/>	B	B		A									
1606613-003	MW-3	Water	6/9/2016 13:40	<input type="checkbox"/>	B	B		A									
1606613-004	MW-4R	Water	6/9/2016 11:10	<input type="checkbox"/>	B	B		A									
1606613-005	MW-5	Water	6/9/2016 8:35	<input type="checkbox"/>	B	B		A									
1606613-006	MW-7	Water	6/9/2016 9:45	<input type="checkbox"/>	B	B		A									

Test Legend:

1	8260B_MBTEXOXPBSCV_W	2	8260GAS_W	3	PREFD REPORT	4	TPH(D)WSG_W
5		6		7		8	
9		10		11		12	

Prepared by: Jena Alfaro

The following SamplIDs: 001B, 002B, 003B, 004B, 005B, 006B contain testgroup.

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.



WORK ORDER SUMMARY

Client Name: AQUA SCIENCE ENGINEERS, INC.

QC Level: LEVEL 2

Work Order: 1606613

Project: 2808; Lim

Client Contact: Robert Kitay

Date Logged: 6/14/2016

Comments:

Contact's Email: rkitay@aquascienceengineers.com

WaterTrax
 WriteOn
 EDF
 Excel
 Fax
 Email
 HardCopy
 ThirdParty
 J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1606613-001A	MW-1	Water	SW8015B (Diesel w/ S.G. Clean-Up)	2	VOA w/ HCl	<input type="checkbox"/>	6/9/2016 12:40	5 days	Present	<input type="checkbox"/>	
1606613-001B	MW-1	Water	TPH(g) & BTEX & 5 Oxys+Lead Scav by 8260B	3	VOA w/ HCl	<input type="checkbox"/>	6/9/2016 12:40	5 days	Present	<input type="checkbox"/>	
1606613-002A	MW-2	Water	SW8015B (Diesel w/ S.G. Clean-Up)	2	VOA w/ HCl	<input type="checkbox"/>	6/9/2016 15:00	5 days	Present	<input type="checkbox"/>	
1606613-002B	MW-2	Water	TPH(g) & BTEX & 5 Oxys+Lead Scav by 8260B	3	VOA w/ HCl	<input type="checkbox"/>	6/9/2016 15:00	5 days	Present	<input type="checkbox"/>	
1606613-003A	MW-3	Water	SW8015B (Diesel w/ S.G. Clean-Up)	2	VOA w/ HCl	<input type="checkbox"/>	6/9/2016 13:40	5 days	Present	<input type="checkbox"/>	
1606613-003B	MW-3	Water	TPH(g) & BTEX & 5 Oxys+Lead Scav by 8260B	3	VOA w/ HCl	<input type="checkbox"/>	6/9/2016 13:40	5 days	Present	<input type="checkbox"/>	
1606613-004A	MW-4R	Water	SW8015B (Diesel w/ S.G. Clean-Up)	2	VOA w/ HCl	<input type="checkbox"/>	6/9/2016 11:10	5 days	Present	<input type="checkbox"/>	
1606613-004B	MW-4R	Water	TPH(g) & BTEX & 5 Oxys+Lead Scav by 8260B	3	VOA w/ HCl	<input type="checkbox"/>	6/9/2016 11:10	5 days	Present	<input type="checkbox"/>	
1606613-005A	MW-5	Water	SW8015B (Diesel w/ S.G. Clean-Up)	2	VOA w/ HCl	<input type="checkbox"/>	6/9/2016 8:35	5 days	Present	<input type="checkbox"/>	
1606613-005B	MW-5	Water	TPH(g) & BTEX & 5 Oxys+Lead Scav by 8260B	3	VOA w/ HCl	<input type="checkbox"/>	6/9/2016 8:35	5 days	Present	<input type="checkbox"/>	
1606613-006A	MW-7	Water	SW8015B (Diesel w/ S.G. Clean-Up)	2	VOA w/ HCl	<input type="checkbox"/>	6/9/2016 9:45	5 days	Present	<input type="checkbox"/>	
1606613-006B	MW-7	Water	TPH(g) & BTEX & 5 Oxys+Lead Scav by 8260B	3	VOA w/ HCl	<input type="checkbox"/>	6/9/2016 9:45	5 days	Present	<input type="checkbox"/>	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

1600613

Chain of Custody

PAGE 1 / 1

SAMPLER (SIGNATURE)

Robert E. Kitay

PROJECT NAME Lim

JOB NO. 2805

ADDRESS 250 8th Street, Oakland, CA

ANALYSIS REQUEST

SPECIAL INSTRUCTIONS:

SAMPLE ID.	DATE	TIME	MATRIX	QUANTITY	TPH-GAS / MTBE & BTEX (EPA 5030/8015-8020)	TPH-DIESEL (EPA 3510/8015) <i>W/ Silica Gel cleaning</i>	TPH-DIESEL & MOTOR OIL (EPA 3510/8015)	VOLATILE ORGANICS (EPA 624/8240/8260)	SEMI-VOLATILE ORGANICS (EPA 625/8270)	OIL & GREASE (EPA 5520)	LUFT METALS (5) (EPA 6010+7000)	CAM 17 METALS (EPA 6010+7000)	PCBs (EPA 8082)	ORGANOCHLORINATED PESTICIDES (EPA 8081A)	FUEL OXYGENATES (EPA 8260)	Pb (TOTAL or DISSOLVED) (EPA 6010)	TPH-G, BTEX & 5 OXY's + (EPA 8260) <i>Pb scan</i>	COMPOSITE	EDF	HOLD
					MW-1	6-9-16	1240	W	5		X									
MW-2		1500				X											X		X	
MW-3		1340				X											X		X	
MW-4R		1110				X											X		X	
MW-5		835				X											X		X	
MW-7		945				X											X		X	

RELINQUISHED BY:

Robert E. Kitay 1620
 (signature) (time)

RECEIVED BY:

[Signature]
 (signature) (time)

RELINQUISHED BY:

01/11/16 17:30
[Signature]
 (signature) (time)

RECEIVED BY LABORATORY:

01/14/16 1736
[Signature]
 (signature) (time)

COMMENTS:

Robert E. Kitay 6-14-16
 (printed name) (date)

(printed name) (date)

(printed name) (date)

(printed name) (date)

TURN AROUND TIME

STANDARD 24Hr 48Hr 72Hr

OTHER:

Company-ASE, INC.

Company-

Company-

Company-



Sample Receipt Checklist

Client Name: **Aqua Science Engineers, Inc.**
 Project Name: **2808; Lim**
 WorkOrder No: **1606613** Matrix: Water
 Carrier: Courier

Date and Time Received: **6/14/2016 17:36**
 Date Logged: **6/14/2016**
 Received by: **Jena Alfaro**
 Logged by: **Jena Alfaro**

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
 Sample/Temp Blank temperature Temp: 2.4°C NA
 Water - VOA vials have zero headspace / no bubbles? Yes No NA
 Sample labels checked for correct preservation? Yes No
 pH acceptable upon receipt (Metal: <2; 522: <4; 218.7: >8)? Yes No NA
 Samples Received on Ice? Yes No

(Ice Type: WET ICE)

UCMR3 Samples:

Total Chlorine tested and acceptable upon receipt for EPA 522? Yes No NA
 Free Chlorine tested and acceptable upon receipt for EPA 218.7, 300.1, 537, 539? Yes No NA

 Comments: