

July 31, 2013

Ms. Keith Nowell
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

Subject: Quarterly Summary Report, Second Quarter 2013
Site: 76 Station No. 5191/5043
449 Hegenberger Road
Oakland, California
Fuel Leak Case No. RO0000219

Dear Mr. Nowell;

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 any questions or need additional information, please call:

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Sincerely,

PACIFIC CONVENIENCE & FUEL



WALTER SPRAGUE
Director of Retail Services

Attachment

Quarterly Summary Report, Second Quarter 2013

*76 Station No. 5191/5043
449 Hegenberger Road
Oakland, California*

*Alameda County Health Care Services
Agency Fuel Leak Case No. R00000219*

*San Francisco Bay, Regional Water Quality
Control Board Case No. 01-1601*

GeoTracker Global ID No. T0600101476

Antea Group Project No. I42705191

July 31, 2013

Prepared for:
Mr. Keith Nowell
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Services Agency
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1.0 INTRODUCTION

Antea™ Group is pleased to submit this *Quarterly Summary Report, Second Quarter 2013*, for the referenced site in Oakland, California (**Figure 1**). The subject site is an operating 76 station located on the southwestern corner of Hegenberger Road and Edgewater Drive in Oakland, CA. Station facilities include three underground storage tanks (USTs), two dispenser islands, a station building, and a carwash. A total of fourteen groundwater monitoring wells are located at or near the site (**Figures 1 and 2**). Please refer to **Appendix A** for additional site information and for the history of environmental investigations and remedial actions.

This report summarizes the data obtained from the recent groundwater monitoring and sampling event conducted on June 11, 2013. Included herein are site figures, groundwater contaminant data tables, and a discussion of trends. This report has received a technical review by Mr. Dennis Dettloff, California Professional Geologist No. 7480.

1.1 Work Performed [Second Quarter 2013]

1. Antea Group submitted the *Quarterly Summary Report, First Quarter 2013*, dated April 29, 2013 to the Alameda County Health Care Services Agency (ACHCSA).
2. Antea Group submitted a *Remedial Action Plan*, dated April 23, 2013 to the ACHCSA for their consideration.
3. Blaine Tech Services, Inc. (Blaine Tech) conducted the second quarter 2013 groundwater monitoring and sampling event on June 11, 2013.

1.2 Work Proposed [Third Quarter 2013]

1. Antea Group will submit the *Quarterly Summary Report, Second Quarter 2013* (contained herein) to the ACHCSA.
2. Blaine Tech will conduct the third quarter 2013 monitoring and sampling event.
3. Pacific Convenience and Fuels (PC&F) will coordinate a meeting with ACHCSA and Antea Group to discuss potential remedial activities at the site.
4. Antea Group will prepare and submit a feasibility study/corrective action plan to the ACHCSA.

2.0 CURRENT PROJECT STATUS

Current phase of project:	Quarterly Groundwater Monitoring
Local Oversight Program (LOP) – Lead agency for cleanup oversight:	Alameda County Health Care Services Agency Case No. RO0000219
Secondary agency(s):	San Francisco Bay Regional Water Quality Control Board Case No. 01-

	1601
Monitoring well gauging schedule:	Quarterly: MW-3, MW-6 through MW-12, MW-12A, and MW-13 through MW-17
Monitoring well sampling schedule:	Quarterly: MW-6, MW-10, MW-11, MW-12, MW-12A, and MW-13 through 17 Semi-Annual (second and fourth quarters): MW-3 and MW-7 through MW-9
Total number of monitoring/remediation wells (Table 1):	Fourteen (MW-3, MW-6 through MW-12, MW-12A, and MW-13 through MW-17).
Range of well depths (total depth below ground surface, bgs) (Table 1):	Wells are set from 13 feet to 34 feet bgs.
Wells with historical measurable LNAPL (light non-aqueous phase liquid):	Former monitoring wells MW-1 and MW-2 and current monitoring well MW-6
Historical depth to water range, in feet below top of casing (BTOC):	Min: 0.07 (MW-9, Q1 2005) Max: 8.42 (MW-6, Q4 2010)
Historical groundwater elevation range (ft) for monitoring wells MW-1 through MW-17	Min: 2.77 (MW-3, Q3 1994) Max: 9.70 (MW-9, Q3 2012)
Local receptors:	See Appendix A
Current remediation technique	None

2.1 Regulatory Correspondence

Antea Group received a letter dated June 21, 2013 from the ACHCSA. The letter documents ACHCSA's review of a work plan dated November 14, 2011, an *ISCO Pilot Test Work Plan* dated May 15, 2012, the *Quarterly Summary Report, Fourth Quarter 2012* dated January 16, 2013, and the *Remedial Action Plan* dated April 23, 2013 (RAP). The letter states that the ACHCSA does not agree with the work proposed by Antea Group in the RAP and requests a meeting with the responsible parties and Antea Group to discuss possible remedial activities and for Antea Group to prepare and submit a Feasibility Study/Corrective Action Plan to the ACHCSA by August 23, 2013.

2.2 Remedial Activities

No remedial activities took place during the second quarter 2013.

2.3 Groundwater Monitoring

During the second quarter 2013 groundwater monitoring and sampling event, fourteen wells were gauged, purged, and sampled by Blaine Tech per standard sampling protocol (**Appendix B**). Copies of Blaine Tech's field data sheets are presented as **Appendix C**. The recent gauging and sampling data are summarized below and in **Table 2**. Historical gauging and sampling data are summarized in **Tables 3, 3a, 3b, and 3c**.

Well gauging and sampling date:	June 11, 2013
Wells gauged:	MW-3, MW-6 through MW-12, MW-12A, and MW-13 through MW-17
Wells sampled:	MW-3, MW-6 through MW-12, MW-12A, and MW-13 through MW-17
Purge method:	3 well casing volumes via electric, submersible pump

Sample collection method:	Disposable bailers
Groundwater parameters measured (Attachment C):	Temperature, pH, Conductivity, Dissolved Oxygen (DO), Oxidation Reduction Potential (ORP), and Turbidity
Wells with measurable LNAPL:	None
Current depth to water range (ft BTOC):	Min: 2.81 (MW-9) Max: 6.92 (MW-7)
Current groundwater elevation range (ft):	Min: 4.72 (MW-7) Max: 8.13 (MW-9)
Change in water depths from previous event (average change for all gauged wells):	0.41 foot increase
Groundwater flow direction and gradient in foot per foot (ft/ft):	South at 0.06 ft/ft

2.3.1 Groundwater Flow Gradient and Directional Trends

The second quarter 2013 groundwater monitoring and sampling event was performed by Blaine Tech on June 11, 2013. The average groundwater elevation decreased 0.41 feet from the March 2013 event. Depth to groundwater in the site monitoring wells ranged from 2.81 feet (MW-9) to 6.92 feet (MW-7) BTOC during the current event. The groundwater flow direction and gradient were interpreted to be to the southeast at 0.001 ft/ft during the current event (Table 4).

2.3.2 Groundwater Quality Data

Groundwater samples collected during the second quarter 2013 were submitted with chain-of-custody (COC) documentation to Kiff Analytical LLC (Kiff), a state of California Environmental Laboratory Accreditation Program (ELAP) certified laboratory (Certification No. 08263CA). The complete analytical report and Antea Group's laboratory data validation checklist is presented as Appendix D. Groundwater samples were analyzed for one or more of the following:

- Total petroleum hydrocarbons as diesel (TPHd) [silica gel treated] by Environmental Protection Agency (EPA) Method 8015M;
- Total petroleum hydrocarbons as gasoline (TPHg), benzene, toluene, ethylbenzene, and total xylenes (BTEX), methyl tertiary-butyl ether (MTBE), tertiary-butyl alcohol (TBA), and ethanol by EPA Method 8260B;

Groundwater analytical results are presented in Table 2 (current) and Tables 3, 3a, 3b, and 3c (historical). The following ranges of contaminant concentrations were reported in the specified site wells, groundwater samples collected on June 11, 2013. Only the reported contaminants are listed in the table below.

Constituents	Number of Reported Samples Above LRL of the Samples Collected	Minimum Reported Concentration, in µg/L (Sample ID)	Maximum Reported Concentration, in µg/L (Sample ID)
TPHg	5 of 14	190 (MW-3)	110,000 (MW-17)
TPHd	4 of 14	62 (MW-12)	2,400 (MW-6)
Benzene	4 of 14	51 (MW-12)	10,000 (MW-17)
Toluene	3 of 14	5.3 (MW-14)	11,000 (MW-17)
Ethylbenzene	4 of 14	4.3 (MW-12)	3,100 (MW-17)
Total Xylenes	4 of 14	6.4 (MW-12)	12,000 (MW-17)
MTBE	9 of 14	0.78 (MW-12A)	840 (MW-12)
TBA	8 of 14	7.0 (MW-7)	97 (MW-3)

Explanations:

µg/L = Micrograms per liter

LRL = Laboratory reporting limit

2.2.3 Groundwater Contaminant Trends

During the second quarter 2013, analytical results from the groundwater sample collected from monitoring well MW-3 indicated that TPHg, MTBE, and TBA increased in concentration. Analytical results from the groundwater sample collected from monitoring well MW-6 indicated that TPHd, TPHg, BTEX, MTBE, and TBA increased in concentration. Analytical results from the groundwater sample collected from monitoring well MW-7 indicated that TPHd and TBA increased in concentration. Analytical results from the groundwater sample collected from monitoring well MW-9 indicated that MTBE increased in concentration. Analytical results from the groundwater sample collected from monitoring well MW-10 indicated that TPHg, benzene, ethylbenzene and total xylenes decreased in concentration. MTBE concentrations in monitoring well MW-11 increased. TPHg, BTEX, and TBA concentrations decreased in monitoring well MW-12 and TPHd and MTBE concentrations increased. MTBE concentrations in monitoring well MW-12A increased. Analytical results from the groundwater sample collected from monitoring well MW-13 indicated a decrease in MTBE concentrations and an increase in TBA concentrations. Analytical results from the groundwater sample collected from monitoring well MW-14 indicated a decrease in toluene, ethylbenzene, and total xylenes concentrations and an increase in TPHg, benzene, and TBA concentrations. Analytical results from the groundwater sample collected from monitoring well MW-15 indicated an increase in MTBE and TBA concentrations. Analytical results from the groundwater sample collected from monitoring well MW-16 indicated a decrease in MTBE concentration and an increase in TBA concentrations. Analytical results from the groundwater sample collected from monitoring well MW-17 indicated an increase in TPHd, TPHg, benzene, toluene, and total xylenes concentrations and a decrease in TBA concentrations. Isoconcentration maps for TPHg, benzene, MTBE, and TPHd are presented on **Figures 4** through **7** and historical groundwater flow directions are shown on **Figure 8**.



2.3.4 Waste Disposal Summary

Approximately 128 gallons of waste water were generated during well purging/sampling and equipment cleaning during the second quarter event. The waste water was transported to Blaine Tech’s bulk facility in San Jose, California. After the batching process, the wastewater will be transported to Seaport Environmental in Redwood City, California for disposal.

2.3.5 Quality Assurance / Quality Control

Antea Group’s QA/QC measures included use of a field duplicate and a detailed QA/QC data validation check on the Kiff laboratory analytical results for the June 2013 sampling event. Antea Group’s laboratory data validation checklist and the Kiff laboratory report are presented as **Appendix D**.

Laboratory QA/QC Performed:	Yes (validated by Antea Group)
Laboratory Data Qualifiers:	Yes – three qualifiers*
Are the data valid for their intended purpose?	Yes, the data are valid

*TBA results for samples MW-12 may be biased slightly high and are flagged with a ‘J’. A fraction of MTBE (typically less than 30%) converts to TBA during the analysis of water samples. We consider this conversion effect to be mathematically significant in samples that contain MTBE/TBA ratios of over 3:1.

*The method reporting limit for ethanol has been increased due to the presence of an interfering compound for sample MW-10.

*Surrogate recovery for sample MW-17, MW-6, and FD-1 for the test method Mod. EPA 8015 was outside of control limits. This may indicate a bias in the analysis due to the sample’s matrix or an interference from compounds present in the sample.

Based on a review of the laboratory’s analytical report, including their QA/QC procedures and those implemented by Antea Group, we conclude that the laboratory data obtained during this groundwater sampling event are valid for their intended purpose.

3.0 CONCLUSIONS AND RECOMMENDATIONS

Antea Group recommends that all monitoring wells MW-3 and MW-6 through MW-17 be purged and sampled on a semi-annual basis during the second and fourth quarters of each year. Additional groundwater sampling may be required for the work proposed in the *Remedial Action Plan*.

4.0 REMARKS

The recommendations contained in this report represent Antea USA, Inc.'s professional opinions based upon the currently available information and are arrived at in accordance with currently accepted professional standards. This report is based upon a specific scope of work requested by the client. For any reports cited that were not generated by Delta or Antea Group, the data from those reports is used "as is" and is assumed to be accurate. Antea Group does not guarantee the accuracy of this data for the referenced work performed nor the inferences or conclusions stated in these reports. The contract between Antea USA, Inc. and its client outlines the scope of work, and only those tasks specifically authorized by that contract or outlined in this report were performed. This report is intended only for the use of Antea USA, Inc.'s client and anyone else specifically identified in writing by Antea USA, Inc. as a user of this report. Antea USA, Inc. will not and cannot be liable for unauthorized reliance by any other third party. Other than as contained in this paragraph, Antea USA, Inc. makes no express or implied warranty as to the contents of this report.

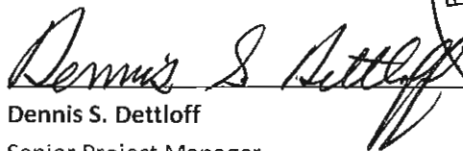
Prepared by:



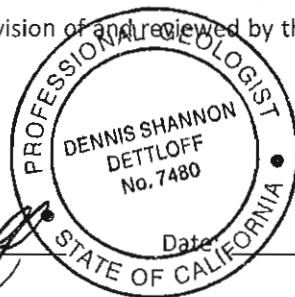
Edward T. Weyrens, G.I.T.
Project Professional

Information, conclusions, and recommendations provided by Antea Group in this document regarding the site have been prepared under the supervision of and reviewed by the licensed professional whose signature appears below.

Licensed Approver:



Dennis S. Dettloff
Senior Project Manager
California Registered Professional Geologist No. 7480



Date

7/3/13

cc: GeoTracker (upload)

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- Figure 2 Site Plan
- Figure 3 Groundwater Elevation Contour Map – June 11, 2013
- Figure 4 Dissolved Phase TPHg Isoconcentration Map – June 11, 2013
- Figure 5 Dissolved Phase Benzene Isoconcentration Map – June 11, 2013
- Figure 6 Dissolved Phase MTBE Isoconcentration Map – June 11, 2013
- Figure 7 Dissolved Phase TPHd Isoconcentration Map – June 11, 2013
- Figure 8 Historical Groundwater Flow Directions

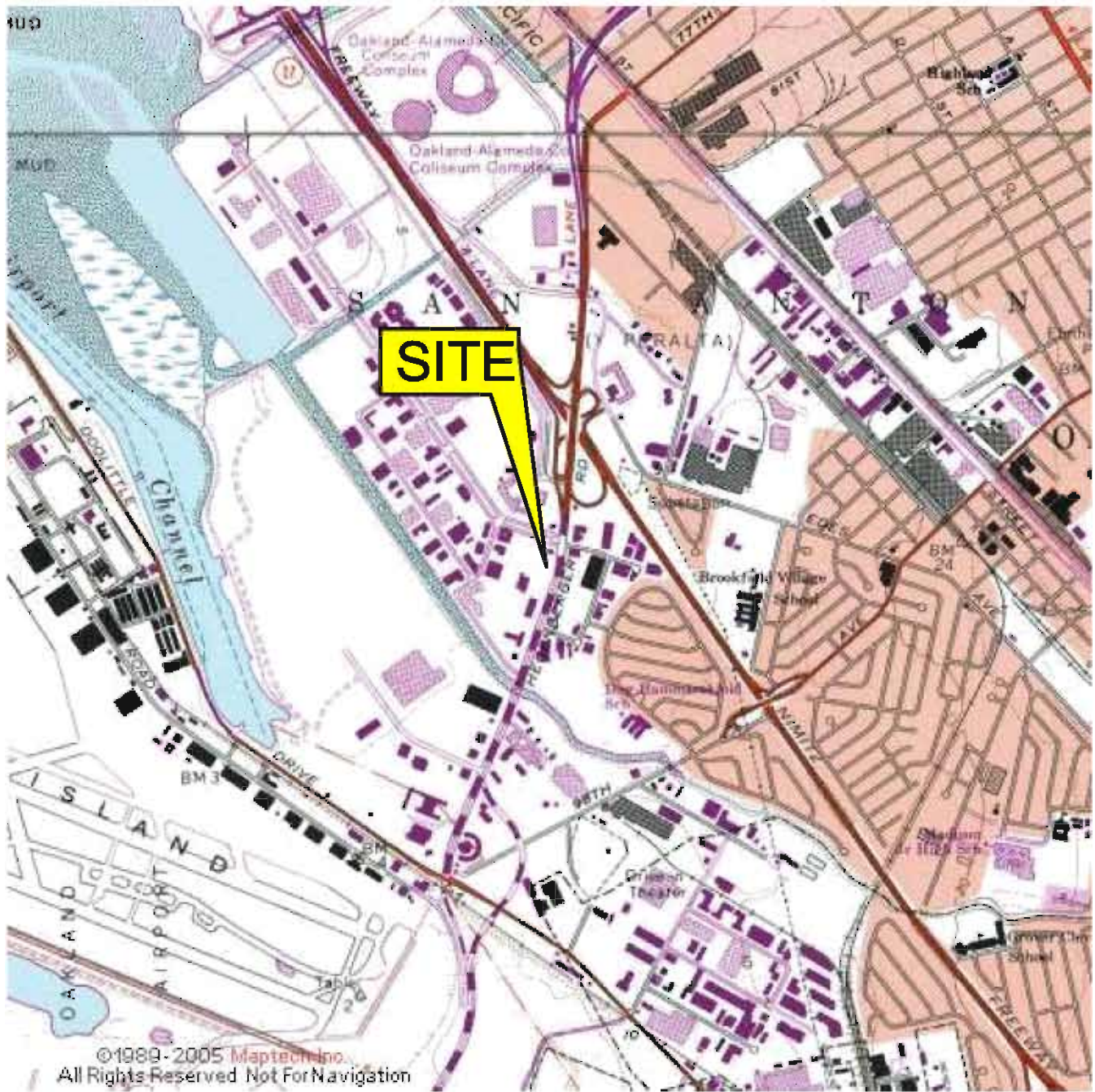



FIGURE 1
SITE LOCATION MAP

76 STATION NO. 5191/5043
449 HEGENBERGER ROAD
OAKLAND, CALIFORNIA

PROJECT NO. 142705191	PREPARED BY EW	DRAWN BY DR/JH	
DATE 1/31/11	REVIEWED BY DD	FILE NAME 5043-SiteLocator	

SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC MAP, OAKLAND EAST QUADRANGLE (1973)

EDGEWATER DR.

LEGEND

- ⊕ MW- MONITORING WELL
- ⊘ MW- ABANDONED MONITORING WELL

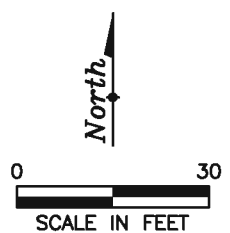
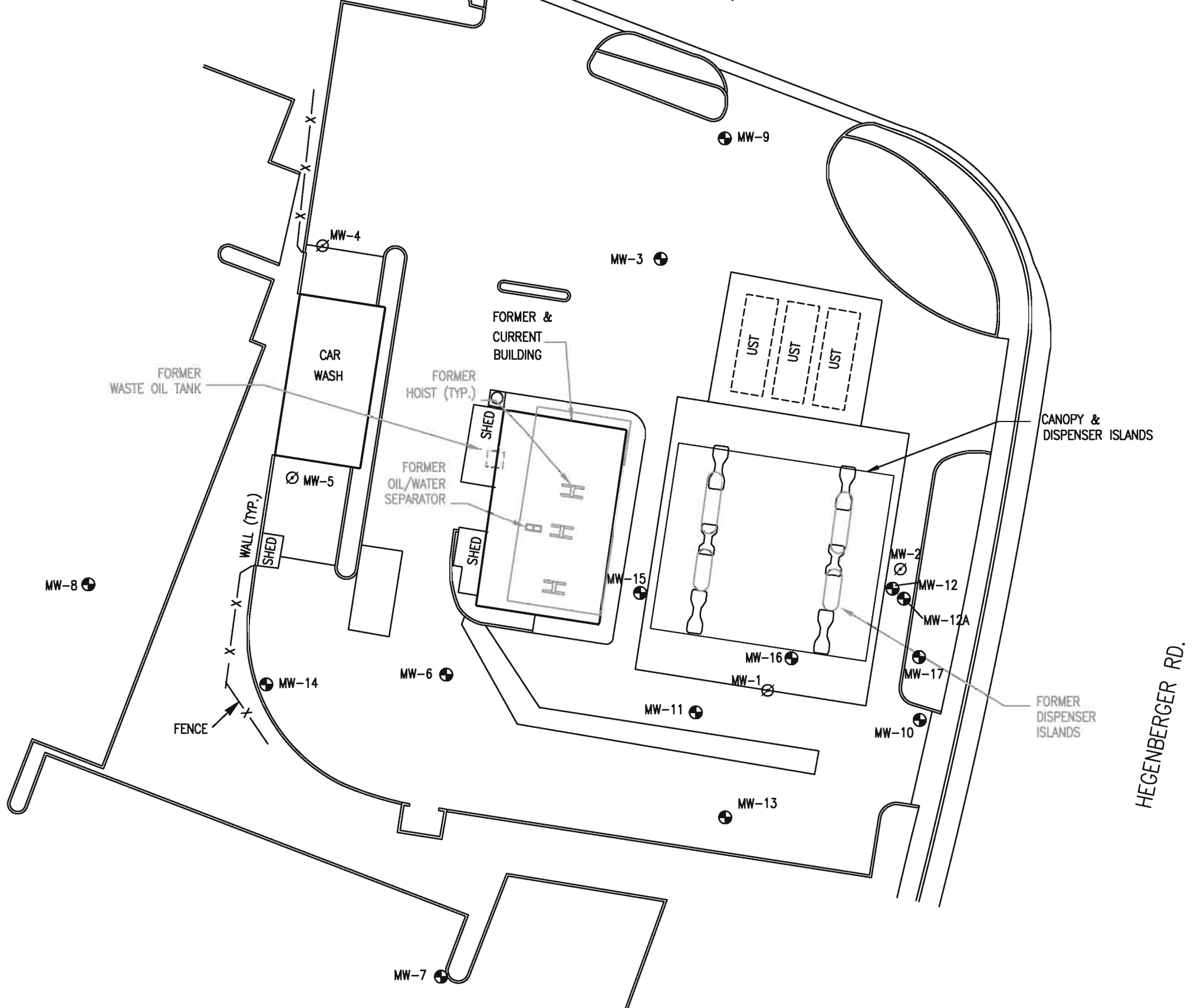

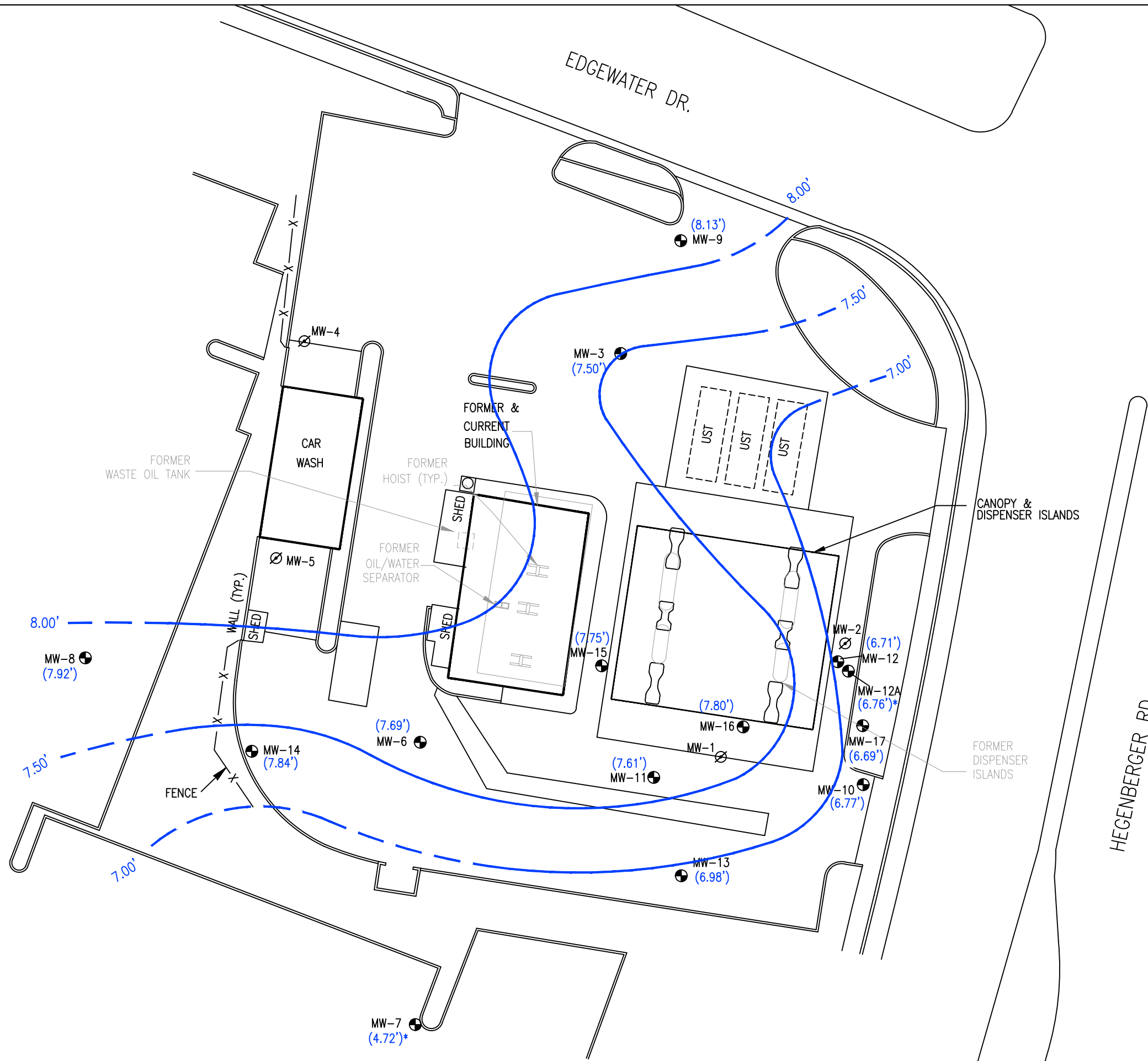


FIGURE 2
SITE PLAN

76 STATION NO. 5191/5043
449 HEGENBERGER ROAD
OAKLAND, CALIFORNIA

PROJECT NO. 142705191	PREPARED BY DD	DRAWN BY JH	
DATE 5/26/11	REVIEWED BY DD	FILE NAME 5191-SiteS	



LEGEND

- MW- MONITORING WELL
- ⊘ MW- ABANDONED MONITORING WELL
- (7.50) GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL (ft/msl)
- * NOT USED IN CONTOURING
- 7.50' — GROUNDWATER CONTOUR LINE (ft/msl)
-DASHED WHERE INFERRED
(CONTOUR INTERVAL: 0.50 ft)

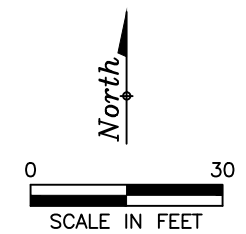
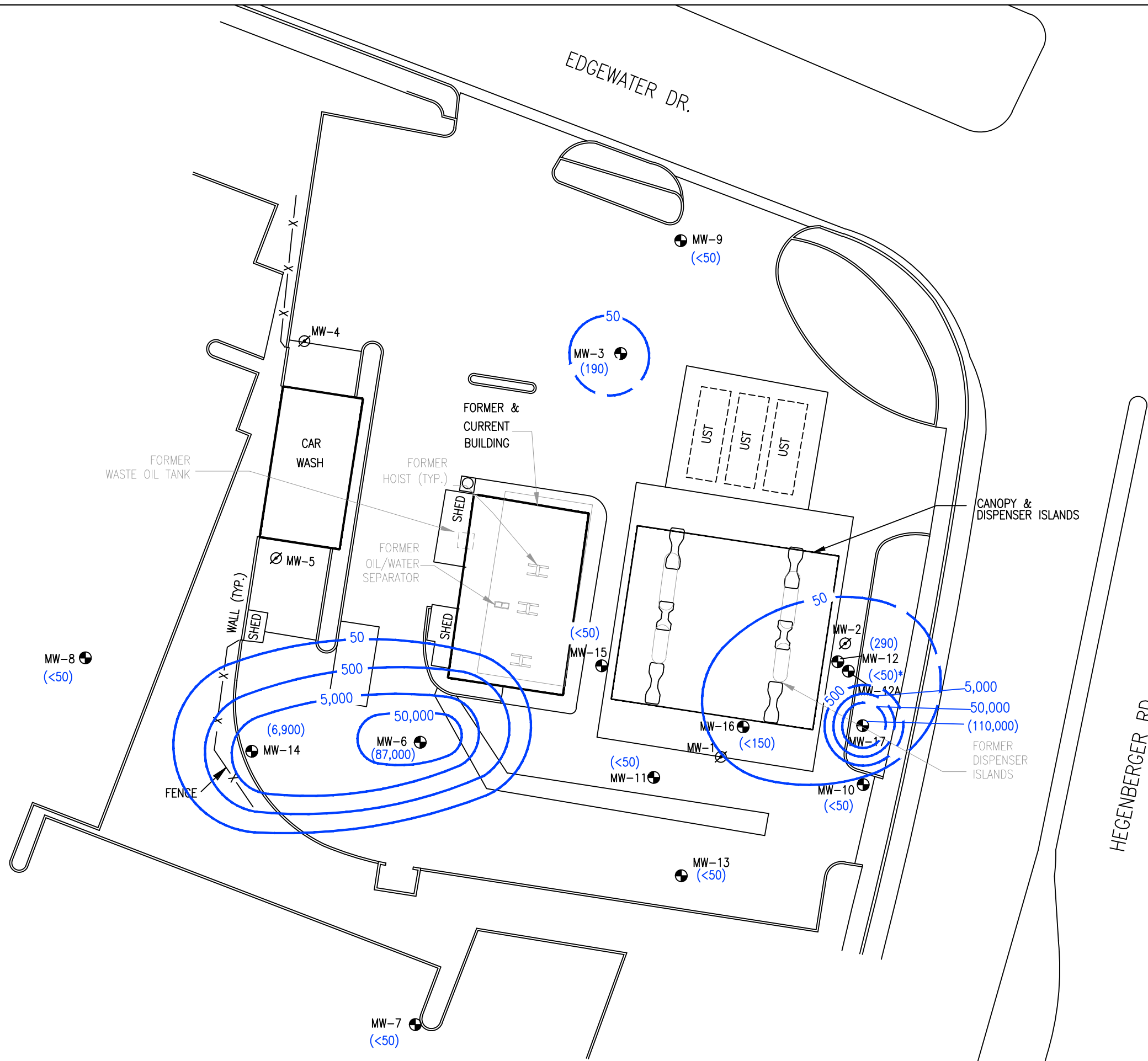


FIGURE 3
GROUNDWATER ELEVATION CONTOUR MAP
 JUNE 11, 2013
 76 STATION NO. 5191/5043
 449 HEGENBERGER ROAD
 OAKLAND, CALIFORNIA

PROJECT NO. I42705191	PREPARED BY EW	DRAWN BY JH
DATE 7/12/13	REVIEWED BY DD	FILE NAME 5191-SiteS





LEGEND

- MW- MONITORING WELL
- ⊘ MW- ABANDONED MONITORING WELL
- (87,000) DISSOLVED PHASE TPHg ISOCONCENTRATION (µg/L)
- 5,000 — DISSOLVED PHASE TPHg ISOCONTOUR (µg/L)
-DASHED WHERE INFERRED

NOTES:

- TPHg = TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
- µg/L = MICROGRAMS PER LITER
- <50 = LESS THAN LABORATORY INDICATED REPORTING LIMIT
- * = NOT USED IN CONTOURING

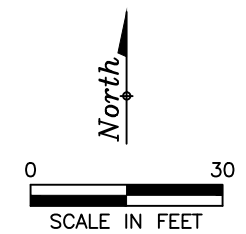
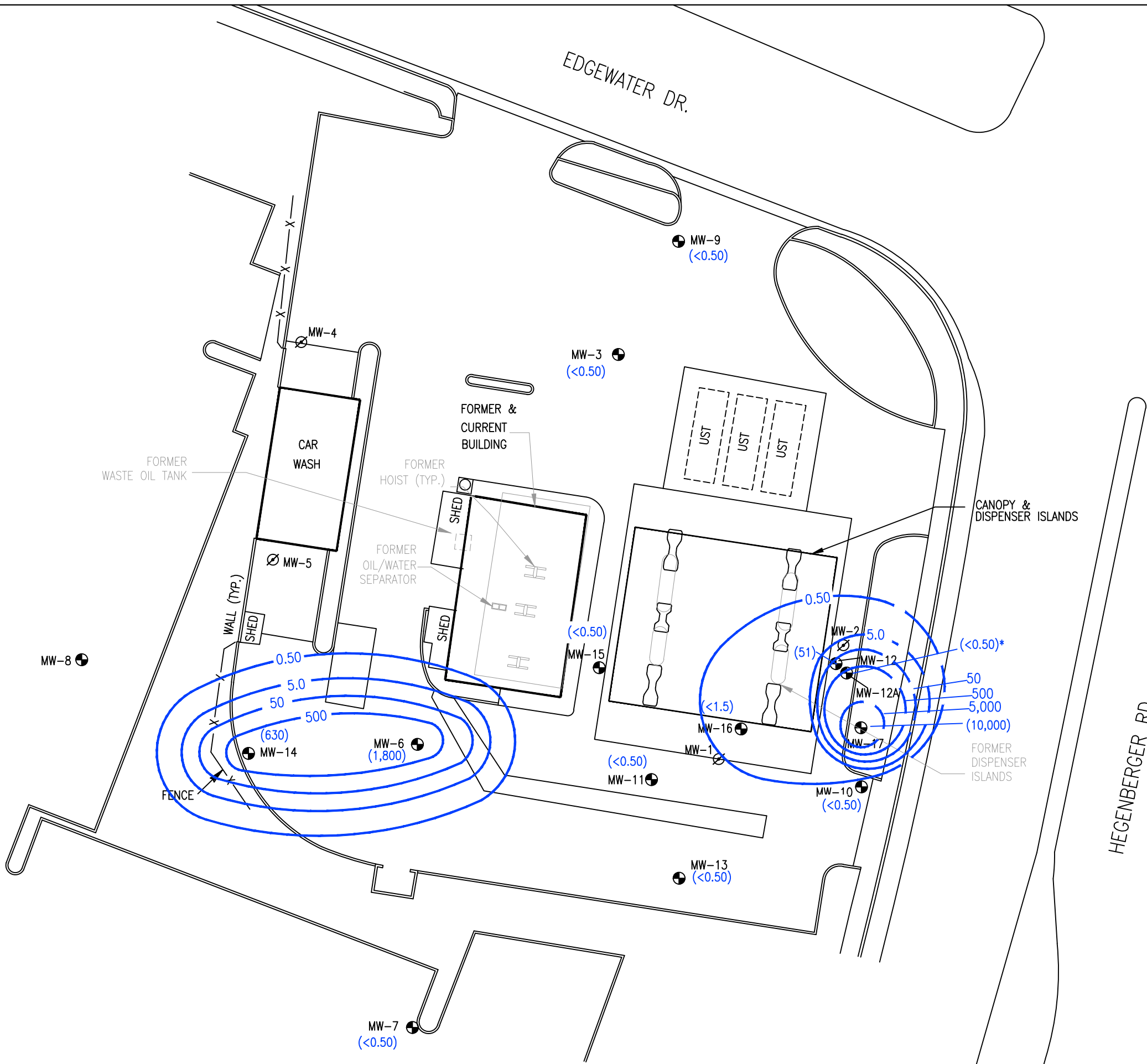


FIGURE 4
 DISSOLVED PHASE TPHg ISOCONCENTRATION MAP
 JUNE 11, 2013
 76 STATION NO. 5191/5043
 449 HEGENBERGER ROAD
 OAKLAND, CALIFORNIA

PROJECT NO. I42705191	PREPARED BY EW	DRAWN BY JH	
DATE 7/12/13	REVIEWED BY DD	FILE NAME 5191-SiteS	



LEGEND

- MW- MONITORING WELL
- MW- ABANDONED MONITORING WELL
- (630) DISSOLVED PHASE BENZENE ISOCONCENTRATION (µg/L)
- 500 — DISSOLVED PHASE BENZENE ISOCONTOUR (µg/L) -DASHED WHERE INFERRED

NOTES:

- µg/L = MICROGRAMS PER LITER
- <0.50 = LESS THAN LABORATORY INDICATED REPORTING LIMIT
- * = NOT USED IN CONTOURING

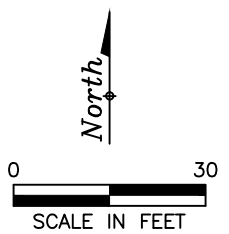
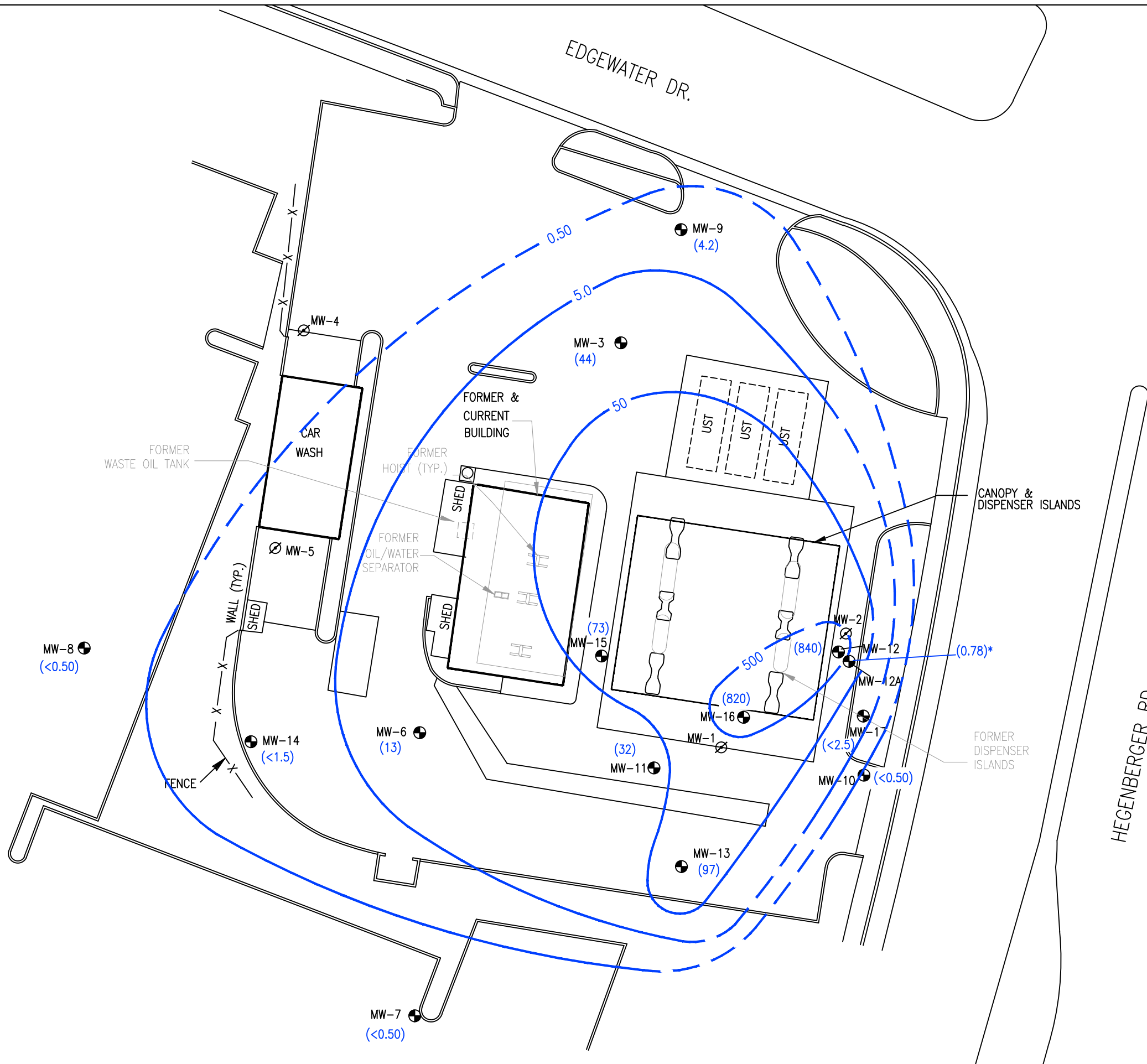


FIGURE 5
 DISSOLVED PHASE BENZENE ISOCONCENTRATION MAP
 JUNE 11, 2013
 76 STATION NO. 5191/5043
 449 HEGENBERGER ROAD
 OAKLAND, CALIFORNIA

PROJECT NO. I42705191	PREPARED BY EW	DRAWN BY JH
DATE 7/12/13	REVIEWED BY DD	FILE NAME 5191-SiteS





LEGEND

- MW- MONITORING WELL
- ⊘ MW- ABANDONED MONITORING WELL
- (44) DISSOLVED PHASE MTBE ISOCONCENTRATION (µg/L)
- 500 — DISSOLVED PHASE MTBE ISOCONTOUR (µg/L) —DASHED WHERE INFERRED

NOTES:

MTBE = METHYL TERTIARY BUTYL ETHER
 µg/L = MICROGRAMS PER LITER
 <0.50= LESS THAN LABORATORY INDICATED REPORTING LIMIT
 * = NOT USED IN CONTOURING

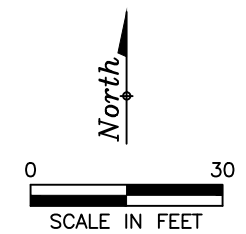
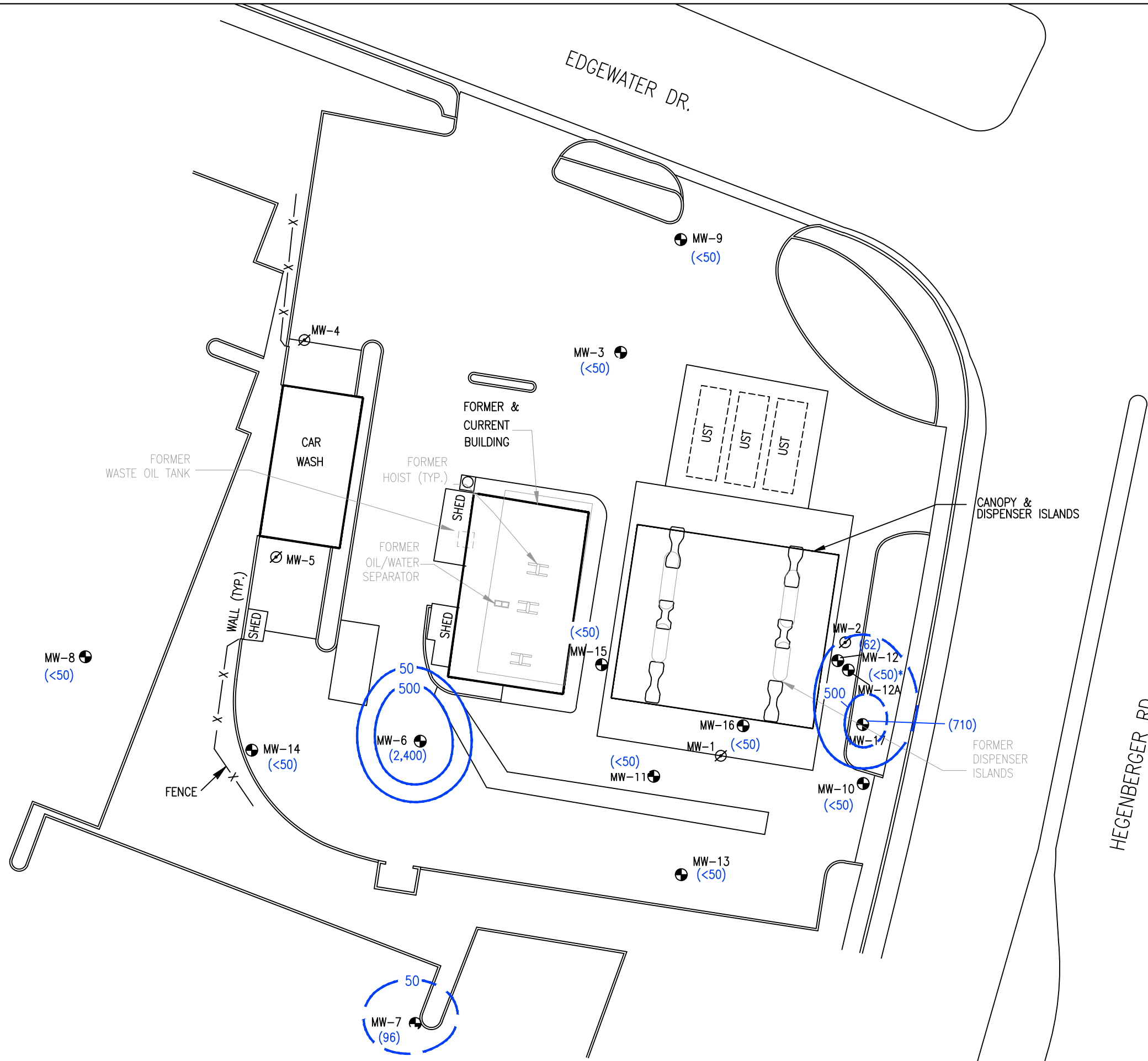


FIGURE 6
 DISSOLVED PHASE MTBE ISOCONCENTRATION MAP
 JUNE 11, 2013
 76 STATION NO. 5191/5043
 449 HEGENBERGER ROAD
 OAKLAND, CALIFORNIA

PROJECT NO. I42705191	PREPARED BY EW	DRAWN BY JH	
DATE 7/12/13	REVIEWED BY DD	FILE NAME 5191-SiteS	



LEGEND

- MW- MONITORING WELL
- ⊘ MW- ABANDONED MONITORING WELL
- (710) DISSOLVED PHASE TPHd ISOCONCENTRATION (µg/L)
- 50 — DISSOLVED PHASE TPHd ISOCONTOUR (µg/L)
-DASHED WHERE INFERRED

NOTES:

TPHd = TOTAL PETROLEUM HYDROCARBONS AS DIESEL
 µg/L = MICROGRAMS PER LITER
 <50 = LESS THAN LABORATORY INDICATED REPORTING LIMIT
 * = NOT USED IN CONTOURING

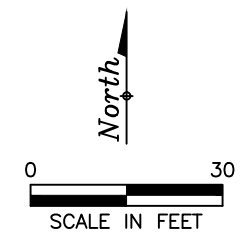
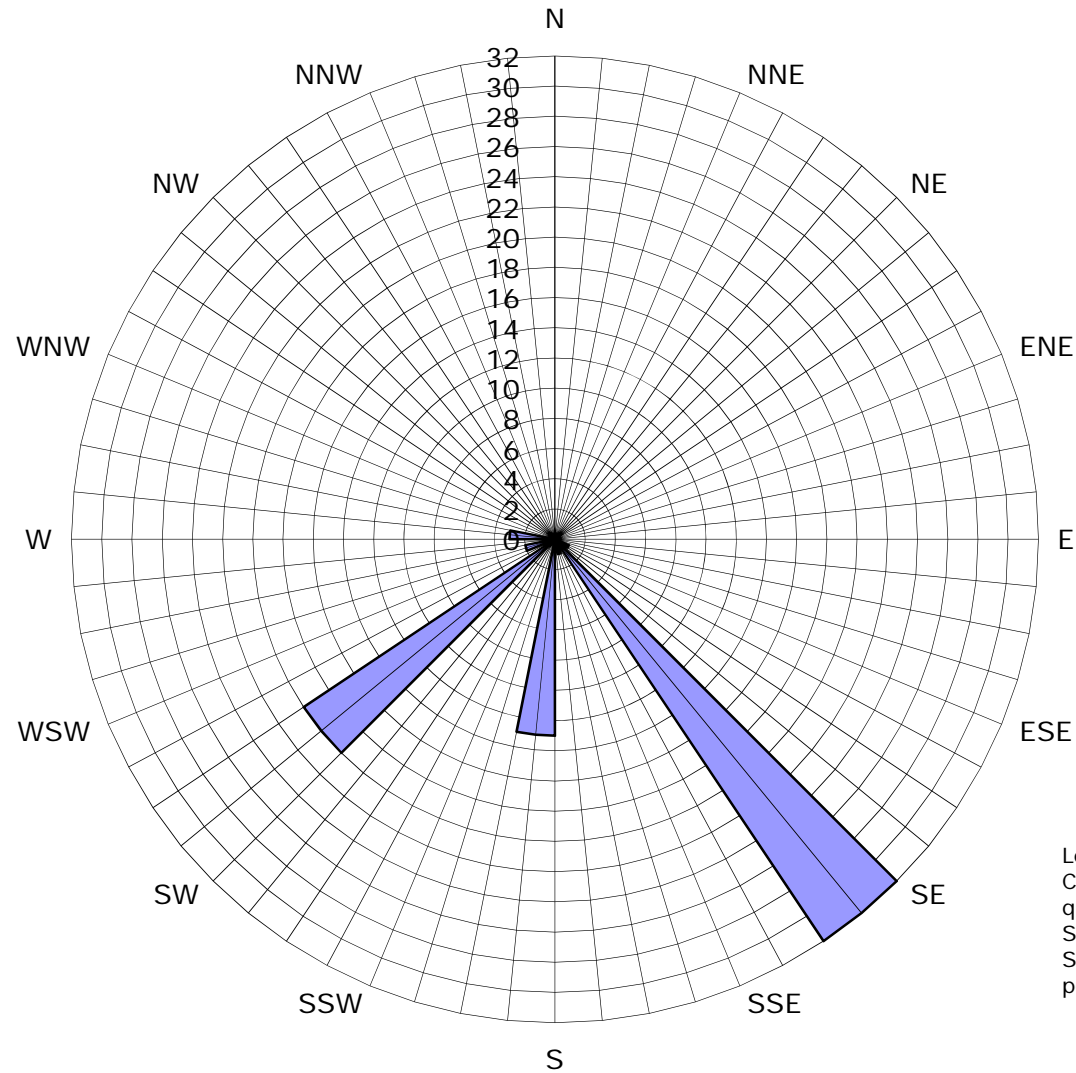


FIGURE 7
 DISSOLVED PHASE TPHd ISOCONCENTRATION MAP
 JUNE 11, 2013
 76 STATION NO. 5191/5043
 449 HEGENBERGER ROAD
 OAKLAND, CALIFORNIA

PROJECT NO. I42705191	PREPARED BY EW	DRAWN BY JH	
DATE 7/12/13	REVIEWED BY DD	FILE NAME 5191-SiteS	

Figure 8
Historical Groundwater Flow Directions
76 Station No. 5191/5043
449 Hegenberger Road
Oakland, California



■ Groundwater Flow Direction

Tables

Table 1	Well Construction Details
Table 2	Current Groundwater Gauging and Analytical Data
Table 3	Historical Groundwater Gauging and Analytical Data
Table 3a	Additional Historical Groundwater Analytical Data
Table 3b	Additional Historical Groundwater Analytical Data
Table 3c	Additional Historical Groundwater Analytical Data
Table 4	Historical Groundwater Gradient and Flow Direction Data

Table 1
Well Construction Details
 76 Station No. 5191/5043
 449 Hegenberger Road
 Oakland, CA

Well I.D.	Drill Date	Well		Screen		Screen Length (feet)	Comments
		Depth (feet bgs)	Diameter (inches)	Top (feet bgs)	Bottom (feet bgs)		
Monitoring Wells							
MW-1	02/05/91	13.5	2	2.0	13.0	11.0	Abandoned
MW-2	02/05/91	15.0	2	3.0	15.0	12.0	Abandoned
MW-3	02/05/91	14.0	2	2.0	14.0	12.0	
MW-4	08/21/92	13.5	2	2.5	13.5	11.0	Abandoned
MW-5	08/21/92	13.5	2	2.5	13.5	11.0	Abandoned
MW-6	08/21/92	13.5	2	2.5	13.5	11.0	
MW-7	04/21/97	13.0	2	3.0	13.0	10.0	
MW-8	04/21/97	15.0	2	3.0	15.0	12.0	
MW-9	01/25/95	13.0	2	3.0	13.0	10.0	
MW-10	01/25/95	13.0	2	3.0	13.0	10.0	
MW-11	06/22/10	20.0	4	5.0	20.0	15.0	
MW-12	06/22/10	20.0	4	5.0	20.0	15.0	
MW-12A	06/23/10	34.0	2	30.0	34.0	4.0	
MW-13	06/22/10	15.0	2	5.0	15.0	10.0	
MW-14	05/17/11	13.0	2	3.0	13.0	10.0	
MW-15	05/17/11	13.0	2	3.0	13.0	10.0	
MW-16	05/17/11	13.0	2	3.0	13.0	10.0	
MW-17	05/18/11	13.0	2	3.0	13.0	10.0	
Explanation							
Wells are of poly-vinyl-chloride (PVC) construction							
bgs = Below ground surface							

TABLE 2
CURRENT GROUNDWATER GAUGING AND ANALYTICAL DATA
76 STATION NO. 5191/5043
449 HEGENBERGER ROAD
OAKLAND, CALIFORNIA



Well I.D.	Date	GROUNDWATER GAUGING DATA				GROUNDWATER ANALYTICAL DATA								
		TOC Elevation (ft)	Depth to Water (ft)	LNAPL Thickness (ft)	Water Elevation* (ft)	TPHd (ug/L)	TPHg (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)	TBA (ug/L)	Ethanol (ug/L)
MW-3	6/11/2013	10.81	3.31	NP	7.50	<50	190	<0.50	<0.50	<0.50	<0.50	44	97	<5.0
MW-6	6/11/2013	11.55	3.86	NP	7.69	2,400	87,000	1,800	250	2,000	9,400	13	230	<40
MW-7	6/11/2013	11.64	6.92	NP	4.72	96	<50	<0.50	<0.50	<0.50	<0.50	<0.50	7	<5.0
MW-8	6/11/2013	11.32	3.40	NP	7.92	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<5.0
MW-9	6/11/2013	10.94	2.81	NP	8.13	<50	<50	<0.50	<0.50	<0.50	<0.50	4.2	<5.0	<5.0
MW-10	6/11/2013	10.97	4.20	NP	6.77	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<8.0
MW-11	6/11/2013	10.53	2.92	NP	7.61	<50	<50	<0.50	<0.50	<0.50	<0.50	32	<5.0	<5.0
MW-12	6/11/2013	11.01	4.30	NP	6.71	62	290	51	<1.5	4.3	6.4	840	19 J	<15
MW-12A	6/11/2013	11.29	4.53	NP	6.76	<50	<50	<0.50	<0.50	<0.50	<0.50	0.78	<5.0	<5.0
MW-13	6/11/2013	11.08	4.10	NP	6.98	<50	<50	<0.50	<0.50	<0.50	<0.50	97	31	<5.0
MW-14	6/11/2013	12.00	4.63	NP	7.37	<50	6,900	630	5.3	480	680	<1.5	24	<15
MW-15	6/11/2013	11.11	3.36	NP	7.75	<50	<50	<0.50	<0.50	<0.50	<0.50	73	31	<5.0
MW-16	6/11/2013	10.98	3.19	NP	7.79	<50	<150	<1.5	<1.5	<1.5	<1.5	820	70	<15
MW-17	6/11/2013	11.52	4.83	NP	6.69	710	110,000	10,000	11,000	3,100	12,000	<25	<150	<250

Gauging Notes:

TOS - Top of Screen
ft - Feet
NP - LNAPL not present
LNAPL - Light non-aqueous phase liquid
* - Corrected for LNAPL if present (assumes LNAPL specific gravity = 0.75)
--- No information available

Analytical Notes:

< - Below laboratory's indicated reporting limit
ug/L - micrograms/liter
TPHd- Total petroleum hydrocarbons as diesel
TPHg- Total petroleum hydrocarbons as gasoline
MTBE- Methyl tertiary-butyl ether
TBA- Tertiary-butyl alcohol
Bold - Above the laboratory's indicated reporting limit
J - TBA result may be biased slightly high due to MTBE converting to TBA during analysis

TABLE 3
 HISTORICAL GROUNDWATER GAUGING AND ANALYTICAL DATA
 76 STATION NO. 5191/5043
 449 HEGENBERGER ROAD
 OAKLAND, CALIFORNIA



Well I.D.	Date	GROUNDWATER GAUGING DATA				GROUNDWATER ANALYTICAL DATA															
		TOC Elevation (ft)	Depth to Water (ft)	LNAPL Thickness (ft)	Water Elevation* (ft)	TPHd (ug/L)	TPHg (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (SW8021B) (ug/L)	MTBE (SW8260B) (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	Ethanol (ug/L)	1,2-Dibromoethane (EDB) (ug/L)	1,2-Dichloroethane (ug/L)	
MW-1	2/18/1992	NSVD	NG	NG	NG	13,000	150,000	17,000	26,000	5,200	26,000	--	--	--	--	--	--	--	--	--	
	5/20/1992	NSVD	NG	NG	NG	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	8/31/1992	NSVD	NG	NG	NG	8,900	64,000	13,000	12,000	2,500	22,000	--	--	--	--	--	--	--	--	--	
	11/30/1992	NSVD	NG	NG	NG	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	2/4/1993	NSVD	NG	NG	NG	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	5/4/1993	8.96	2.13	0.10	6.91	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	8/4/1993	8.96	2.92	0.03	6.06	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	11/3/1993	7.38	3.04	NP	4.34	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	2/7/1994	7.38	2.55	0.03	4.85	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	5/19/1994	7.38	2.23	0.01	5.16	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	6/25/1994	7.38	2.49	0.01	4.90	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	7/27/1994	7.38	3.10	NP	4.28	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	8/15/1994	7.38	2.85	0.11	4.61	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	11/14/1994	7.38	2.97	0.12	4.50	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
2/21/1995	7.38	1.53	0.02	5.87	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	
5/18/1995	NSVD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	
MW-2	2/18/1992	NSVD	NG	NG	NG	4,300	29,000	1,000	5,300	260	7,900	--	--	--	--	--	--	--	--	--	
	5/20/1992	NSVD	NG	NG	NG	4,300	24,000	2,200	7,600	630	11,000	--	--	--	--	--	--	--	--	--	
	8/31/1992	NSVD	NG	NG	NG	1,600	9,000	1,800	640	140	2,000	--	--	--	--	--	--	--	--	--	
	11/30/1992	NSVD	NG	NG	NG	5,700	29,000	2,000	3,400	1,200	6,900	--	--	--	--	--	--	--	--	--	
	2/4/1993	NSVD	NG	NG	NG	6,100	18,000	1,600	3,000	ND	6,900	--	--	--	--	--	--	--	--	--	
	5/4/1993	8.96	2.48	NP	6.48	7,100	63,000	3,200	17,000	470	17,000	--	--	--	--	--	--	--	--	--	
	8/4/1993	8.96	3.20	NP	5.76	1,800	45,000	2,100	6,600	1,400	12,000	--	--	--	--	--	--	--	--	--	
	11/3/1993	8.58	3.37	NP	5.21	2,600	72,000	3,700	16,000	3,700	20,000	--	--	--	--	--	--	--	--	--	
	2/7/1994	8.58	2.40	NP	6.18	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	
	5/19/1994	8.58	2.13	NP	6.45	3,000	42,000	2,500	1,300	2,300	13,000	--	--	--	--	--	--	--	--	--	
	6/25/1994	8.58	2.65	NP	5.93	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	7/27/1994	8.58	3.44	NP	5.14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	8/15/1994	8.58	3.25	NP	5.33	2,800	35,000	2,400	850	1,700	15,000	--	--	--	--	--	--	--	--	--	
	11/14/1994	8.58	2.13	NP	6.45	10,000	43,000	2,200	6,500	1,800	14,000	--	--	--	--	--	--	--	--	--	
2/21/1995	8.58	1.65	NP	6.93	2,000	44,000	2,200	3,200	1,300	1,500	--	--	--	--	--	--	--	--	--		
5/18/1995	NSVD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD		
MW-3	2/18/1992	NSVD	NG	NG	NG	ND	230	5	22	2	33	--	--	--	--	--	--	--	--		
	5/20/1992	NSVD	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	
	8/31/1992	NSVD	NG	NG	NG	92	210	1	ND	ND	ND	--	--	--	--	--	--	--	--		
	11/30/1992	NSVD	NG	NG	NG	94	790	ND	ND	ND	ND	--	--	--	--	--	--	--	--		
	2/4/1993	NSVD	NG	NG	NG	550	3,300	320	ND	96	6	--	--	--	--	--	--	--	--		
	5/4/1993	7.84	4.32	NP	3.52	250	1,800	95	ND	ND	ND	--	--	--	--	--	--	--	--		
	8/4/1993	7.84	4.94	NP	2.90	100	210	ND	ND	ND	ND	--	--	--	--	--	--	--	--		
	11/3/1993	7.42	4.53	NP	2.89	160	640	ND	ND	ND	ND	--	--	--	--	--	--	--	--		
	2/7/1994	7.42	2.40	NP	5.02	620	2,700	110	ND	17	ND	--	--	--	--	--	--	--	--		
	5/19/1994	7.42	3.60	NP	3.82	480	1,800	83	ND	6	9	--	--	--	--	--	--	--	--		
	6/25/1994	7.42	4.58	NP	2.84	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
	7/27/1994	7.42	4.58	NP	2.84	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
	8/15/1994	7.42	4.65	NP	2.77	110	130	1	1	ND	1	--	--	--	--	--	--	--	--		
	11/14/1994	7.42	3.18	NP	4.24	150	1,600	ND	ND	ND	ND	--	--	--	--	--	--	--	--		
	2/21/1995	7.42	1.81	NP	5.61	850	3,800	350	ND	130	22	--	--	--	--	--	--	--	--		
	5/18/1995	7.42	4.56	NP	2.86	150	1,300	42	ND	ND	ND	--	--	--	--	--	--	--	--		
	8/17/1995	7.42	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	
	7/26/1996	7.42	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	
	10/28/1996	7.42	WO	WO	WO	WO	WO	WO	WO	WO	WO	WO	WO	WO	WO	WO	WO	WO	WO	WO	
	1/29/1997	7.42	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	
	4/15/1997	7.42	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	
	5/27/1997	7.42	3.45	NP	3.97	--	670	7	ND	ND	ND	250	--	--	--	--	--	--	--	--	
6/1/1997	7.42	3.50	NP	3.92	610	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
7/15/1997	8.04	3.71	NP	4.33	240	240	ND	ND	ND	490	--	--	--	--	--	--	--	--	--		
10/9/1997	8.04	3.70	NP	4.34	500	270	1	ND	2	1	910	--	--	--	--	--	--	--	--		
1/14/1998	8.04	2.16	NP	5.88	340	310	ND	ND	1	1	140	--	--	--	--	--	--	--	--		
4/1/1998	8.04	2.20	NP	5.84	320	370	6	ND	ND	ND	93	--	--	--	--	--	--	--	--		
7/15/1998	8.04	3.38	NP	4.66	510	460	ND	ND	ND	230	--	--	--	--	--	--	--	--	--		

**TABLE 3
HISTORICAL GROUNDWATER GAUGING AND ANALYTICAL DATA
76 STATION NO. 5191/5043
449 HEGERBERGER ROAD
OAKLAND, CALIFORNIA**



Well I.D.	Date	GROUNDWATER GAUGING DATA				GROUNDWATER ANALYTICAL DATA															
		TOC Elevation (ft)	Depth to Water (ft)	LNAPL Thickness (ft)	Water Elevation* (ft)	TPHd (ug/L)	TPHg (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (SW8021B) (ug/L)	MTBE (SW8260B) (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	Ethanol (ug/L)	1,2-Dibromoethane (EDB) (ug/L)	1,2-Dichloroethane (ug/L)	
MW-3	10/16/1998	8.04	2.30	NP	5.74	67	330	5	ND	ND	ND	60	--	--	--	--	--	--	--	--	
	1/25/1999	8.04	2.42	NP	5.62	120	420	2	ND	ND	ND	180	--	--	--	--	--	--	--	--	
	4/15/1999	8.04	2.16	NP	5.88	170	290	1	ND	ND	ND	160	--	--	--	--	--	--	--	--	
	7/14/1999	8.04	2.35	NP	5.69	420	290	3	ND	ND	ND	160	--	--	--	--	--	--	--	--	
	10/21/1999	8.04	2.49	NP	5.55	350	360	1	ND	ND	ND	82	--	--	--	--	--	--	--	--	
	1/20/2000	8.04	2.38	NP	5.66	2,060	ND	1	ND	ND	ND	54	--	--	--	--	--	--	--	--	
	4/13/2000	8.04	2.76	NP	5.28	200	250	1	ND	ND	ND	91	150	ND	ND	ND	ND	ND	ND	ND	
	7/14/2000	8.04	3.26	NP	4.78	423	345	ND	ND	ND	ND	95	--	--	--	--	--	--	--	--	
	10/26/2000	8.04	3.12	NP	4.92	330	480	6.0	ND	ND	ND	120	--	--	--	--	--	--	--	--	
	1/3/2001	8.04	3.65	NP	4.39	287	364	2	ND	ND	ND	118	--	--	--	--	--	--	--	--	
	4/4/2001	8.04	3.98	NP	4.06	360	417	1	ND	ND	1	237	--	--	--	--	--	--	--	--	
	7/17/2001	8.04	3.12	NP	4.92	270	480	ND	ND	ND	ND	150	--	--	--	--	--	--	--	--	
	10/1/2001	8.04	3.25	NP	4.79	270	310	1.0	<0.50	<0.50	<0.50	53	--	--	--	--	--	--	--	--	
	1/31/2002	8.04	2.27	NP	5.77	250	250	4	<1.0	<1.0	<1.0	110	--	--	--	--	--	--	--	--	
	4/18/2002	8.04	3.55	NP	4.49	320	300	<2.0	<2.0	<2.0	<2.0	--	59	--	--	--	--	--	--	--	
	7/28/2002	8.04	2.55	NP	5.49	310	500	<0.50	<0.50	<0.50	<1.0	--	130	--	--	--	--	--	--	--	
	10/9/2002	8.04	2.47	NP	5.57	700	690	<5	<5	<5	<10	--	120	--	--	--	--	--	--	--	
	1/2/2003	8.04	1.70	NP	6.34	210	310	<0.50	<0.50	<0.50	<1.0	--	110	<2.0	<2.0	<2.0	<100	<500	<2.0	<2.0	
	4/1/2003	8.04	3.48	NP	4.56	200	250	<1.0	<1.0	<1.0	<2.0	--	210	--	--	--	--	--	--	--	
	7/1/2003	8.04	2.65	NP	5.39	380	450	<2.5	<2.5	<2.5	<5.0	--	70	--	--	--	--	<2500	--	--	
	10/2/2003	8.04	3.12	NP	4.92	300	<250	<2.5	<2.5	<2.5	<5.0	--	210	--	--	--	--	<2500	--	--	
	1/9/2004	8.04	2.39	NP	5.65	200	300	<0.50	1	1	2	--	66	--	--	--	--	<500	--	--	
	4/26/2004	8.04	3.11	NP	4.93	160	440	3	6	3	9	--	81	--	--	--	--	<50	--	--	
	7/22/2004	8.04	2.51	NP	5.53	330	420	<0.5	<0.5	<0.5	<1	--	72	--	--	--	--	<1000	--	--	
	10/29/2004	8.04	2.00	NP	6.04	200	460	6	15	10	46	--	48	--	--	--	--	<50	--	--	
	1/10/2005	8.04	1.52	NP	6.52	250	280	<0.50	1	<0.50	2	--	64	--	--	--	--	<50	--	--	
	6/15/2005	8.04	2.00	NP	6.04	360	460	<0.50	0.70	0.56	2	--	110	--	--	--	--	<50	--	--	
	9/27/2005	8.04	1.90	NP	6.14	<200	210	<0.50	0.60	<0.50	<1.0	--	100	<0.50	<0.50	<0.50	79	<250	--	--	
	12/13/2005	8.04	2.35	NP	5.69	230	230	<0.50	<0.50	<0.50	<1.0	--	92	--	--	--	--	<250	--	--	
	3/23/2006	8.04	1.84	NP	6.20	260	290	<0.50	<0.50	<0.50	<1.0	--	88	--	--	--	--	<250	--	--	
	6/23/2006	8.04	2.26	NP	5.78	330	500	<0.50	<0.50	<0.50	<1.0	--	75	--	--	--	--	<250	--	--	
	9/26/2006	8.04	2.08	NP	5.96	260	270	<0.50	<0.50	<0.50	<0.50	--	73	--	--	--	--	<250	--	--	
	12/22/2006	8.04	1.88	NP	6.16	250	260	<0.50	<0.50	<0.50	1	--	71	--	--	--	--	<250	--	--	
	3/30/2007	8.04	2.47	NP	5.57	210	390	<0.50	<0.50	<0.50	<0.50	--	120	--	--	--	--	<250	--	--	
6/28/2007	8.04	2.54	NP	5.50	290	370	<0.50	<0.50	<0.50	<0.50	--	55	--	--	--	--	<250	--	--		
9/25/2007	8.04	2.56	NP	5.48	210	350	<0.50	<0.50	<0.50	<0.50	--	61	--	--	--	--	<250	--	--		
12/28/2007	8.04	2.29	NP	5.75	150	260	<0.50	<0.50	<0.50	<1.0	--	66	--	--	--	--	<250	--	--		
3/22/2008	8.04	3.26	NP	4.78	230	390	<0.50	<0.50	<0.50	<1.0	--	39	--	--	--	--	<250	--	--		
6/23/2008	8.04	2.60	NP	5.44	130	200	<0.50	<0.50	<0.50	<1.0	--	46	--	--	--	--	<250	--	--		
9/19/2008	8.04	3.45	NP	4.59	93	180	<0.50	<0.50	<0.50	<1.0	--	120	--	--	--	--	<250	--	--		
12/31/2008	8.04	2.55	NP	5.49	110	190	<0.50	<0.50	<0.50	<1.0	--	38	--	--	--	--	<250	--	--		
3/27/2009	8.04	2.37	NP	5.67	130	150	<0.50	<0.50	<0.50	<1.0	--	50	--	--	--	--	<250	--	--		
5/28/2009	8.04	3.32	NP	4.72	120	190	<0.50	<0.50	<0.50	<1.0	--	60	--	--	--	--	<250	--	--		
9/17/2009	8.04	2.63	NP	5.41	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		
12/17/2009	8.04	2.13	NP	5.91	338	300	<0.50	<0.50	1	<1.5	--	43	--	--	--	--	<250	--	--		
3/29/2010	8.04	2.22	NP	5.82	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
6/30/2010	10.81	2.91	NP	7.90	90	261	<0.50	<0.50	<0.50	<1.5	--	89.0	--	--	--	--	<250	--	--		
7/6/2010	10.81	2.66	NP	8.15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
9/20/2010	10.81	3.12	NP	7.69	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
12/8/2010	10.81	2.37	NP	8.44	137	306	<0.50	<0.50	<0.50	<1.5	--	58.8	--	--	--	--	<250	--	--		
3/14/2011	10.81	2.26	NP	8.55	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
6/2/2011	10.81	2.43	NP	8.38	155	283	0.58	1.3	<0.50	2.2	--	42.1	--	--	--	55.7	<250	--	--		
9/7/2011	10.81	2.36	NP	8.45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
12/5/2011	10.81	2.55	NP	8.26	81.7	381	<0.50	<0.50	<0.50	<1.5	--	41.8	--	--	--	--	<250	--	--		
3/6/2012	10.81	2.63	NP	8.18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
6/11/2012	10.81	2.99	NP	7.82	87.9	371	<0.50	<0.50	<0.50	<1.5	--	55.7	--	--	--	77.2	<250	--	--		
9/6/2012	10.81	2.50	NP	8.31	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
12/13/2012	10.81	2.50	NP	8.31	<50	130	<0.50	<0.50	<0.50	<0.50	--	28	--	--	--	77	<5.0	--	--		
3/14/2013	10.81	2.63	NP	8.18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
6/11/2013	10.81	3.31	NP	7.5	<50	190	<0.50	<0.50	<0.50	<0.50	--	44	--	--	--	97	<5.0	--	--		
MW-4	8/31/1992	NSVD	NG	NG	NG	90	240	ND	ND	ND	0.54	--	--	--	--	--	--	--	--		
	11/30/1992	NSVD	NG	NG	NG	61	420	ND	ND	ND	ND	--	--	--	--	--	--	--	--		

TABLE 3
 HISTORICAL GROUNDWATER GAUGING AND ANALYTICAL DATA
 76 STATION NO. 5191/5043
 449 HEGENBERGER ROAD
 OAKLAND, CALIFORNIA



Well I.D.	Date	GROUNDWATER GAUGING DATA				GROUNDWATER ANALYTICAL DATA																
		TOC Elevation (ft)	Depth to Water (ft)	LNAPL Thickness (ft)	Water Elevation* (ft)	TPHd (ug/L)	TPHg (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (SW8021B) (ug/L)	MTBE (SW8260B) (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	Ethanol (ug/L)	1,2-Dibromoethane (EDB) (ug/L)	1,2-Dichloroethane (ug/L)		
MW-4	2/4/1993	NSVD	NG	NG	NG	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	
	5/4/1993	9.00	4.09	NP	4.91	ND	110	0.95	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	
	8/4/1993	9.00	5.01	NP	3.99	81	250	ND	3.5	ND	4.1	--	--	--	--	--	--	--	--	--	--	
	11/3/1993	8.41	4.23	NP	4.18	68	130	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	
	2/7/1994	8.41	3.35	NP	5.06	ND	56	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	
	5/19/1994	8.41	3.92	NP	4.49	90	140	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	
	6/25/1994	8.41	4.35	NP	4.06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	7/27/1994	8.41	4.28	NP	4.13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	8/15/1994	8.41	4.27	NP	4.14	72	59	ND	0.6	ND	ND	--	--	--	--	--	--	--	--	--	--	
	11/14/1994	8.41	4.05	NP	4.36	ND	130	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	
2/21/1995	NSVD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	
MW-5	8/31/1992	NSVD	NG	NG	NG	690	78	1	ND	ND	13	--	--	--	--	--	--	--	--	--	--	
	11/30/1992	NSVD	NG	NG	NG	470	930	70	290	1	14	--	--	--	--	--	--	--	--	--	--	
	2/4/1993	NSVD	NG	NG	NG	5,500	5,700	38	ND	620	170	--	--	--	--	--	--	--	--	--	--	
	5/4/1993	8.95	4.37	NP	4.58	4,600	7,400	41	ND	1,000	35	--	--	--	--	--	--	--	--	--	--	
	8/4/1993	8.95	5.81	NP	3.14	970	1,500	130	1	460	11	--	--	--	--	--	--	--	--	--	--	
	11/3/1993	8.95	5.68	NP	3.27	2,100	13,000	350	ND	3,500	530	--	--	--	--	--	--	--	--	--	--	
	2/7/1994	8.95	5.11	NP	3.84	830	2,000	87	ND	370	110	--	--	--	--	--	--	--	--	--	--	
	5/19/1994	8.95	5.09	NP	3.86	600	260	44	ND	32	4	--	--	--	--	--	--	--	--	--	--	
	6/25/1994	8.95	4.55	NP	4.40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	7/27/1994	8.95	5.72	NP	3.23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	8/15/1994	8.95	5.68	NP	3.27	860	1,600	110	ND	340	72	--	--	--	--	--	--	--	--	--	--	--
	11/14/1994	8.95	5.63	NP	3.32	290	250	40	ND	ND	5	--	--	--	--	--	--	--	--	--	--	--
	2/21/1995	NSVD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD
	MW-6	8/31/1992	NSVD	NG	NG	NG	750	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--
11/30/1992		NSVD	NG	NG	NG	1,400	9,200	550	ND	740	1,600	--	--	--	--	--	--	--	--	--	--	
2/4/1993		NSVD	NG	NG	NG	890	3,600	340	ND	290	550	--	--	--	--	--	--	--	--	--	--	
5/4/1993		9.12	3.72	NP	5.40	1,800	4,900	360	18	450	430	--	--	--	--	--	--	--	--	--	--	
8/4/1993		9.12	5.15	NP	3.97	1,100	3,400	390	ND	440	190	--	--	--	--	--	--	--	--	--	--	
11/3/1993		8.87	5.25	NP	3.62	390	1,400	320	ND	200	8	--	--	--	--	--	--	--	--	--	--	
2/7/1994		8.87	4.55	NP	4.32	970	4,900	650	ND	250	35	--	--	--	--	--	--	--	--	--	--	
5/19/1994		8.87	4.62	NP	4.25	1,400	3,600	300	2	210	41	--	--	--	--	--	--	--	--	--	--	
8/15/1994		8.87	5.08	NP	3.79	790	1,300	130	7	54	57	--	--	--	--	--	--	--	--	--	--	
11/14/1994		8.87	5.30	NP	3.57	800	730	50	ND	ND	39	--	--	--	--	--	--	--	--	--	--	--
2/21/1995		8.87	5.37	NP	3.50	730	2,000	250	5	25	30	--	--	--	--	--	--	--	--	--	--	--
5/18/1995		8.87	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI
8/17/1995		8.87	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI
7/26/1996		8.87	6.40	3.33	4.97	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
10/28/1996		8.87	4.10	0.21	4.93	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
11/13/1996		8.87	4.02	0.25	5.04	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
11/25/1996		8.87	4.01	0.75	5.42	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
12/4/1996		8.87	3.65	0.50	5.60	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
12/19/1996		8.87	4.80	2.20	5.72	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
1/8/1997		8.87	4.84	1.75	5.34	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
1/14/1997		8.87	4.51	1.15	5.22	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
1/27/1997		8.87	4.00	1.75	6.18	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
1/29/1997		8.87	3.24	0.31	5.86	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
2/11/1997		8.87	4.65	1.20	5.12	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
2/24/1997		8.87	4.81	1.10	4.89	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
3/10/1997		8.87	4.60	0.95	4.98	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
3/17/1997		8.87	4.50	0.89	5.04	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
3/31/1997		8.87	4.65	1.00	4.97	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
4/15/1997		8.87	4.90	1.03	4.74	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
4/28/1997		8.87	4.78	0.03	4.11	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
5/15/1997		8.87	4.60	0.25	4.46	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
5/27/1997		8.87	4.50	0.25	4.56	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
6/9/1997		8.87	4.60	0.20	4.42	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
6/24/1997		8.87	4.50	0.25	4.56	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
7/9/1997	8.87	4.80	0.60	4.52	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	
7/15/1997	8.87	4.63	0.42	4.56	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	

TABLE 3
HISTORICAL GROUNDWATER GAUGING AND ANALYTICAL DATA
76 STATION NO. 5191/5043
449 HEGENBERGER ROAD
OAKLAND, CALIFORNIA



Well I.D.	Date	GROUNDWATER GAUGING DATA				GROUNDWATER ANALYTICAL DATA																
		TOC Elevation (ft)	Depth to Water (ft)	LNAPL Thickness (ft)	Water Elevation* (ft)	TPHd (ug/L)	TPHg (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (SW8021B) (ug/L)	MTBE (SW8260B) (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	Ethanol (ug/L)	1,2-Dibromoethane (EDB) (ug/L)	1,2-Dichloroethane (ug/L)		
MW-6	7/21/1997	8.87	4.75	0.25	4.31	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	
	8/6/1997	8.87	4.50	0.10	4.45	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	
	8/20/1997	8.87	4.55	0.10	4.40	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	
	9/2/1997	8.87	4.75	0.05	4.16	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	
	10/9/1997	8.87	4.84	0.04	4.06	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	
	1/14/1998	8.87	3.90	0.94	5.68	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	2/12/1998	8.87	3.35	0.64	6.00	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	3/3/1998	8.87	4.51	0.02	4.38	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	4/1/1998	8.87	3.67	1.60	6.40	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	5/26/1998	8.87	4.11	0.50	5.14	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	6/15/1998	8.87	5.03	0.30	4.07	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	7/15/1998	8.87	4.56	0.05	4.35	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	8/21/1998	8.87	4.77	0.02	4.12	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	9/30/1998	8.87	5.08	0.03	3.81	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	10/16/1998	8.87	4.31	2.40	6.36	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	11/6/1998	8.87	3.98	0.17	5.02	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	11/25/1998	8.87	3.92	0.10	5.03	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	12/28/1998	8.87	3.90	0.20	5.12	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	1/25/1999	8.87	4.18	0.60	5.14	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	2/22/1999	8.87	4.07	0.22	4.97	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	3/22/1999	8.87	4.32	0.15	4.66	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	4/15/1999	8.87	4.23	0.95	5.35	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	5/28/1999	8.87	4.38	0.39	4.78	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	6/29/1999	8.87	4.12	0.02	4.77	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	7/14/1999	8.87	4.20	0.03	4.69	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	8/23/1999	8.87	4.51	0.24	4.54	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	9/30/1999	8.87	4.17	0.17	4.83	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	10/21/1999	8.87	4.27	0.12	4.69	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	11/29/1999	8.87	4.18	NP	4.69	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/20/1999	8.87	4.26	0.01	4.62	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	1/20/2000	8.87	4.31	NP	4.56	67,600	130,000	2,900	8,600	2,000	16,000	ND	--	--	--	--	--	--	--	--	--	--
	2/26/2000	8.87	3.98	NP	4.89	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/31/2000	8.87	4.14	NP	4.73	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	4/13/2000	8.87	4.04	NP	4.83	8,700	140,000	5,000	14,000	3,600	27,000	7,700	--	--	--	--	--	--	--	--	--	--
	5/26/2000	8.87	4.41	NP	4.46	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/17/2000	8.87	4.35	NP	4.52	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	7/14/2000	8.87	4.47	NP	4.40	133,000	259,000	7,670	13,700	6,860	40,700	ND	ND	--	--	--	--	--	--	--	--	--
	8/24/2000	8.87	3.71	NP	5.16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/27/2000	8.87	4.33	NP	4.54	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/26/2000	8.87	4.32	NP	4.55	61,000	110,000	7,000	6,200	3,700	12,000	670	43	--	--	--	--	--	--	--	--	--
1/3/2001	8.87	4.52	NP	4.35	929	84,700	3,950	4,130	3,650	11,800	ND	ND	--	--	--	--	--	--	--	--	--	
4/4/2001	8.87	4.29	NP	4.58	18,000	69,800	2,060	2,840	3,650	10,900	ND	48	ND	ND	ND	ND	ND	ND	ND	ND	ND	
7/17/2001	8.87	4.37	NP	4.50	20,000	100,000	3,200	3,300	3,400	12,000	ND	--	--	--	--	--	--	--	--	--	--	
10/1/2001	8.87	4.45	NP	4.42	24,000	110,000	3,200	2,400	4,500	13,000	<1000	--	--	--	--	--	--	--	--	--	--	
1/31/2002	8.87	4.03	NP	4.84	11,000	230,000	2,400	1,800	5,400	16,000	<2500	--	--	--	--	--	--	--	--	--	--	
4/18/2002	8.87	3.45	NP	5.42	3,500	94,000	6,800	13,000	3,000	19,000	<500	--	--	--	--	--	--	--	--	--	--	
7/28/2002	8.87	2.24	NP	6.63	27,000	110,000	530	170	3,200	7,300	--	<100	--	--	--	--	--	--	--	--	--	
10/9/2002	8.87	3.53	NP	5.34	170,000	970,000	10,000	39,000	13,000	94,000	--	<2000	--	--	--	--	--	--	--	--	--	
1/2/2003	8.87	2.34	NP	6.53	66,000	270,000	6,100	15,000	5,400	37,000	--	<200	--	--	--	--	--	--	--	--	--	
4/1/2003	8.87	3.17	NP	5.70	35,000	3,000,000	8,000	39,000	37,000	260,000	--	<2000	--	--	--	--	--	--	--	--	--	
7/1/2003	8.87	3.55	NP	5.32	11,000	38,000	2,100	990	2,700	6,500	--	<100	--	--	--	--	--	<25000	--	--	--	
10/2/2003	8.87	3.82	NP	5.05	<50	100,000	5,600	6,900	4,700	18,000	--	<800	--	--	--	--	--	<200000	--	--	--	
1/9/2004	8.87	2.80	NP	6.07	20,000	170,000	2,800	3,300	4,700	16,000	--	<200	--	--	--	--	--	<50000	--	--	--	
4/26/2004	8.87	3.40	NP	5.47	13,000	97,000	5,900	9,000	5,100	23,000	--	<50	--	--	--	--	--	<5000	--	--	--	
7/22/2004	8.87	3.54	NP	5.33	33,000	110,000	4,100	5,100	4,000	16,000	--	<200	--	--	--	--	--	<300000	--	--	--	
10/29/2004	8.87	3.03	NP	5.84	78,000	100,000	5,200	6,100	4,200	15,000	--	<50	--	--	--	--	--	<5000	--	--	--	
1/10/2005	8.87	2.35	NP	6.52	12,000	71,000	1,600	3,700	2,100	9,900	--	<50	--	--	--	--	--	<5000	--	--	--	
6/15/2005	8.87	2.47	NP	6.40	16,000	130,000	800	1,800	2,200	9,300	--	<50	--	--	--	--	--	<5000	--	--	--	
9/27/2005	8.87	2.55	NP	6.32	2,500	13,000	82	120	430	990	--	1	2	<0.50	<0.50	<10	<250	--	--	--	--	
12/13/2005	8.87	3.28	NP	5.59	18,000	68,000	1,500	1,100	2,200	7,700	--	<50	--	--	--	--	--	<25000	--	--	--	

TABLE 3
HISTORICAL GROUNDWATER GAUGING AND ANALYTICAL DATA
76 STATION NO. 5191/5043
449 HEGENERBERGER ROAD
OAKLAND, CALIFORNIA



Well I.D.	Date	GROUNDWATER GAUGING DATA				GROUNDWATER ANALYTICAL DATA														
		TOC Elevation (ft)	Depth to Water (ft)	LNAPL Thickness (ft)	Water Elevation* (ft)	TPHd (ug/L)	TPHg (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (SW8021B) (ug/L)	MTBE (SW8260B) (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	Ethanol (ug/L)	1,2-Dibromoethane (EDB) (ug/L)	1,2-Dichloroethane (ug/L)
MW-6	3/23/2006	8.87	2.87	NP	6.00	73,000	41,000	290	140	1,500	2,700	--	<50	--	--	--	--	<25000	--	--
	6/23/2006	8.87	3.15	NP	5.72	35,000	50,000	2,200	1,400	1,900	5,700	--	<12	--	--	--	--	<6200	--	--
	9/26/2006	8.87	3.08	NP	5.79	22,000	130,000	2,200	1,000	2,900	8,800	--	<50	--	--	--	--	<25000	--	--
	12/22/2006	8.87	2.90	NP	5.97	62,000	90,000	940	610	1,900	4,700	--	<50	--	--	--	--	<25000	--	--
	3/30/2007	8.87	3.26	NP	5.61	62,000	210,000	1,100	560	3,400	12,000	--	<10	--	--	--	--	<5000	--	--
	6/28/2007	8.87	3.46	NP	5.41	71,000	67,000	2,200	1,300	2,700	10,000	--	<25	--	--	--	--	<12000	--	--
	9/25/2007	8.87	3.52	NP	5.35	58,000	56,000	2,900	720	2,400	9,000	--	<25	--	--	--	--	<12000	--	--
	12/28/2007	8.87	3.27	NP	5.60	18,000	78,000	28,000	2,700	4,000	8,100	--	16,000	--	--	--	--	<12000	--	--
	3/22/2008	8.87	2.48	NP	6.39	68,000	66,000	380	150	1,500	2,400	--	<25	--	--	--	--	<12000	--	--
	6/23/2008	8.87	3.54	NP	5.33	68,000	59,000	1,600	130	1,800	4,100	--	25	--	--	--	--	<12000	--	--
	9/19/2008	8.87	4.06	NP	4.81	180,000	65,000	2,000	230	2,000	4,500	--	<12	--	--	--	--	<6200	--	--
	12/31/2008	8.87	3.45	NP	5.42	68,000	91,000	2,000	320	5,300	13,000	--	<50	--	--	--	--	<25000	--	--
	3/27/2009	8.87	3.09	NP	5.78	170,000	150,000	1,300	240	2,800	7,200	--	<50	--	--	--	--	<25000	--	--
	5/28/2009	8.87	3.49	NP	5.38	78,000	53,000	1,700	200	2,300	5,400	--	<50	--	--	--	--	<25000	--	--
	9/17/2009	8.87	3.64	NP	5.23	250,000 T4	77,000	2,100	1,400	2,600	8,500	--	<12	--	--	--	--	<6200	--	--
	12/17/2009	8.87	3.14	NP	5.73	30,300	59,100	1,730	199	2,260	5,460	--	20	--	--	--	--	<250	--	--
	3/29/2010	8.87	3.16	NP	5.71	106,000	48,400	1,980	208	3,070	8,070	--	12	--	--	--	--	<250	--	--
	6/30/2010	11.55	3.50	NP	8.05	170,000	78,700	2,130	281	2,860	8,400	--	6	--	--	--	--	<250	--	--
	7/6/2010	11.55	3.49	NP	8.06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/20/2010	11.55	3.75	NP	7.80	18,800	64,500	2,300	170	2,770	6,260	--	19	--	--	--	--	<250	--	--
	12/8/2010	11.55	8.42	NP	3.13	28,700	78,400	1,300	1,680	3,490	20,600	--	11	--	--	--	--	<250	--	--
	3/14/2011	11.55	3.40	NP	8.15	93,000	44,600	912	338	728	3,670	--	16	--	--	--	134	<250	--	--
	6/2/2011	11.55	2.76	NP	8.79	33,700 T4	56,200	780	262	651	3,890	--	7	--	--	--	81.0	<250	--	--
	9/7/2011	11.55	2.83	NP	8.72	6,780 T4	16,600	16	11	90	339	--	<0.50	--	--	--	--	<250	--	--
	12/5/2011	11.55	3.56	NP	7.99	20,200 T4	64,600	646	95	924	4,050	--	15	--	--	--	--	<250	--	--
	3/6/2012	11.55	3.43	NP	8.12	14,800 T4	55,000	1,020	131	1,320	4,730	--	19	--	--	--	316	<1250	--	--
	6/11/2012	11.55	3.33	NP	8.22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/12/2012	--	--	--	--	47,100 T4	33,400	773	61	840	3,110	--	11	--	--	--	123	<250	--	--
	9/6/2012	11.55	2.85	NP	8.70	<1000	24,000	450	51	610	1,800	--	6	<4.0	<4.0	<4.0	82	<40	<4.0	<4.0
	9/11/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
12/13/2012	11.55	2.90	NP	8.65	470	20,000	200	16	350	1,100	--	<4.0	--	--	--	22	<40	--	--	
3/14/2013	11.55	3.69	NP	7.86	680	24,000	500	25	540	1,700	--	8	--	--	--	110	<40	--	--	
6/11/2013	11.55	3.86	NP	7.69	2,400	87,000	1,800	250	2,000	9,400	--	13	--	--	--	230	<40	--	--	
MW-7	5/27/1997	8.83	4.50	NP	4.33	--	68	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
	6/1/1997	8.83	4.54	NP	4.29	69	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	7/15/1997	8.83	4.70	NP	4.13	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
	10/9/1997	8.83	4.30	NP	4.53	190	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
	1/14/1998	8.83	2.88	NP	5.95	65	ND	ND	ND	ND	ND	36	--	--	--	--	--	--	--	--
	4/1/1998	8.83	3.13	NP	5.70	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
	7/15/1998	8.83	4.45	NP	4.38	74	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
	10/16/1998	8.83	3.45	NP	5.38	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
	1/25/1999	8.83	3.22	NP	5.61	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
	4/15/1999	8.83	3.11	NP	5.72	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
	7/14/1999	8.83	3.34	NP	5.49	69	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
	10/21/1999	8.83	3.43	NP	5.40	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
	1/20/2000	8.83	3.29	NP	5.54	ND	ND	ND	ND	ND	ND	4.2	--	--	--	--	--	--	--	--
	4/13/2000	8.83	3.39	NP	5.44	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
	7/14/2000	8.83	4.42	NP	4.41	68.0	ND	ND	ND	ND	ND	7.83	--	--	--	--	--	--	--	--
	7/17/2001	8.83	5.06	NP	3.77	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
	10/1/2001	8.83	4.98	NP	3.85	<51	<50	<0.50	<0.50	<0.50	<0.50	<5.0	--	--	--	--	--	--	--	--
	1/31/2002	8.83	3.88	NP	4.95	90	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--	--	--	--	--	--	--
	4/18/2002	8.83	4.03	NP	4.80	78	<50	<0.50	<0.50	<0.50	<0.50	5.7	--	--	--	--	--	--	--	--
	7/28/2002	8.83	3.59	NP	5.24	<50	<50	<0.50	<0.50	<0.50	<1.0	--	3.9	--	--	--	--	--	--	--
	10/9/2002	8.83	4.53	NP	4.30	<96	<50	<0.50	<0.50	<0.50	<1.0	--	3.9	--	--	--	--	--	--	--
	1/3/2003	8.83	3.36	NP	5.47	78	<50	<0.50	<0.50	<0.50	<1.0	--	<2.0	--	--	--	--	--	--	--
	4/1/2003	8.83	3.94	NP	4.89	67	71	<0.50	<0.50	0.71	<1.0	--	3.4	--	--	--	--	--	--	--
	7/1/2003	8.83	4.60	NP	4.23	68	64	<0.50	<0.50	0.77	2.0	--	35	--	--	--	--	<500	--	--
	10/2/2003	8.83	5.46	NP	3.37	82	<50	<0.50	<0.50	<0.50	<1.0	--	4.9	--	--	--	--	<500	--	--
	1/9/2004	8.83	3.55	NP	5.28	75	54	<0.50	<0.50	<0.50	<1.0	--	2.4	--	--	--	--	<500	--	--
	4/26/2004	8.83	4.49	NP	4.34	<50	<50	<0.50	<0.50	<0.50	1.5	--	2.3	--	--	--	--	<50	--	--
	7/22/2004	8.83	4.93	NP	3.90	<200	82	0.90	2.0	3.5	9.9	--	1.4	--	--	--	--	<1000	--	--
	10/29/2004	8.83	3.71	NP	5.12	54	210	0.67	1.6	1.7	5.8	--	<0.50	--	--	--	--	<50	--	--

TABLE 3
HISTORICAL GROUNDWATER GAUGING AND ANALYTICAL DATA
76 STATION NO. 5191/5043
449 HEGENBERGER ROAD
OAKLAND, CALIFORNIA



Well I.D.	Date	GROUNDWATER GAUGING DATA				GROUNDWATER ANALYTICAL DATA															
		TOC Elevation (ft)	Depth to Water (ft)	LNAPL Thickness (ft)	Water Elevation* (ft)	TPHd (ug/L)	TPHg (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (SW8021B) (ug/L)	MTBE (SW8260B) (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	Ethanol (ug/L)	1,2-Dibromoethane (EDB) (ug/L)	1,2-Dichloroethane (ug/L)	
MW-7	1/10/2005	8.83	2.77	NP	6.06	<50	74	0.51	2.2	1.7	7.0	--	<0.50	--	--	--	--	<50	--	--	
	6/15/2005	8.83	3.40	NP	5.43	<50	<50	<0.50	<0.50	<0.50	<1.0	--	0.88	--	--	--	--	<50	--	--	
	9/27/2005	8.83	3.44	NP	5.39	<200	<50	0.59	1.2	<0.50	<1.0	--	0.96	<0.50	<0.50	<0.50	<10	<250	--	--	
	12/13/2005	8.83	3.98	NP	4.85	<200	<50	<0.50	<0.50	<0.50	<1.0	--	0.65	--	--	--	--	<250	--	--	
	3/23/2006	8.83	3.37	NP	5.46	<200	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<250	--	--	
	6/23/2006	8.83	5.25	NP	3.58	<200	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<250	--	--	
	9/26/2006	8.83	4.13	NP	4.70	<50	<50	<0.50	<0.50	<0.50	<0.50	--	0.77	--	--	--	--	<250	--	--	
	12/22/2006	8.83	3.63	NP	5.20	630	<50	<0.50	<0.50	<0.50	<0.50	--	<0.50	--	--	--	--	<250	--	--	
	3/30/2007	8.83	4.31	NP	4.52	94	<50	<0.50	<0.50	<0.50	<0.50	--	<0.50	--	--	--	--	<250	--	--	
	6/28/2007	8.83	4.62	NP	4.21	<50	<50	<0.50	<0.50	<0.50	<0.50	--	0.54	--	--	--	--	<250	--	--	
	9/25/2007	8.83	4.65	NP	4.18	<50	<50	<0.50	<0.50	<0.50	<0.50	--	<0.50	--	--	--	--	<250	--	--	
	12/28/2007	8.83	3.99	NP	4.84	75	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<250	--	--	
	3/22/2008	8.83	4.08	NP	4.75	<50	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<250	--	--	
	6/23/2008	8.83	4.10	NP	4.73	<50	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<250	--	--	
	9/19/2008	8.83	4.86	NP	3.97	<50	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<250	--	--	
	12/31/2008	8.83	4.17	NP	4.66	<50	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<250	--	--	
	3/27/2009	8.83	4.00	NP	4.83	<50	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<250	--	--	
	5/28/2009	8.83	4.71	NP	4.12	<50	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<250	--	--	
	9/17/2009	8.83	4.87	NP	3.96	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/29/2010	8.83	--	WI	WI	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/30/2010	11.64	4.45	NP	7.19	66.0	<50.0	<0.50	<0.50	<0.50	<1.5	--	<0.50	--	--	--	--	<250	--	--	
	7/6/2010	11.64	4.63	NP	7.01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/20/2010	11.64	4.85	NP	6.79	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/8/2010	11.64	3.99	NP	7.65	57.7	<50.0	<0.50	<0.50	<0.50	<1.5	--	<0.50	--	--	--	--	<250	--	--	
	3/14/2011	11.64	3.81	NP	7.83	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/2/2011	11.64	3.90	NP	7.74	63.0 T4	--	<0.50	<0.50	<0.50	<1.5	--	<0.50	--	--	--	<5.0	<250	--	--	
	9/7/2011	11.64	3.72	NP	7.92	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/5/2011	11.64	4.60	NP	7.04	<50.0	--	<0.50	<0.50	<0.50	<1.5	--	<0.50	--	--	--	--	<250	--	--	
	3/6/2012	11.64	4.54	NP	7.10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/11/2012	11.64	4.93	NP	6.71	<37.9	--	<0.50	<0.50	<0.50	<1.5	--	<0.50	--	--	--	<5.0	<250	--	--	
9/6/2012	11.64	4.03	NP	7.61	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
12/13/2012	11.64	3.43	NP	8.21	<50	--	<0.50	<0.50	<0.50	<0.50	--	<0.50	--	--	--	<5.0	<5.0	--	--	--	
3/14/2013	11.64	4.9	NP	6.74	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
6/11/2013	11.64	6.92	NP	4.72	96	<50	<0.50	<0.50	<0.50	<0.50	--	<0.50	--	--	--	7	<5.0	--	--	--	
MW-8	5/27/1997	8.52	3.42	NP	5.10	--	310	0.88	0.67	15	70	ND	--	--	--	--	--	--	--	--	
	6/1/1997	8.52	3.46	NP	5.06	320	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	7/15/1997	8.52	3.49	NP	5.03	ND	ND	ND	ND	2.7	3.8	ND	--	--	--	--	--	--	--	--	--
	10/9/1997	8.52	3.73	NP	4.79	390	590	1.4	ND	32	4.1	ND	--	--	--	--	--	--	--	--	--
	1/14/1998	8.52	1.92	NP	6.60	230	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
	4/1/1998	8.52	2.38	NP	6.14	510	ND	ND	ND	ND	4.7	ND	--	--	--	--	--	--	--	--	--
	7/15/1998	8.52	3.53	NP	4.99	140	ND	ND	ND	0.56	1.1	ND	--	--	--	--	--	--	--	--	--
	10/16/1998	8.52	3.04	NP	5.48	170	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
	1/25/1999	8.52	2.92	NP	5.60	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
	4/15/1999	8.52	2.40	NP	6.12	91	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
	7/14/1999	8.52	3.03	NP	5.49	120	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
	10/21/1999	8.52	3.11	NP	5.41	110	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
	1/20/2000	8.52	3.06	NP	5.46	583	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
	4/13/2000	8.52	2.84	NP	5.68	80	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
	7/14/2000	8.52	3.39	NP	5.13	113	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
	7/17/2001	8.52	3.46	NP	5.06	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
	10/1/2001	8.52	3.51	NP	5.01	<50	<50	<0.50	<0.50	<0.50	<0.50	<5.0	--	--	--	--	--	--	--	--	--
	1/31/2002	8.52	2.75	NP	5.77	260	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--	--	--	--	--	--	--	--
	4/18/2002	8.52	2.98	NP	5.54	160	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--	--	--	--	--	--	--	--
	7/28/2002	8.52	2.41	NP	6.11	140	<50	<0.50	<0.50	<0.50	<1.0	--	<2.0	--	--	--	--	--	--	--	--
	10/9/2002	8.52	2.09	NP	6.43	120	<50	<0.50	<0.50	<0.50	<1.0	--	<2.0	--	--	--	--	--	--	--	--
	1/2/2003	8.52	1.98	NP	6.54	210	<50	<0.50	<0.50	<0.50	<1.0	--	<2.0	--	--	--	--	--	--	--	--
	4/1/2003	8.52	2.66	NP	5.86	220	<50	<0.50	<0.50	<0.50	<1.0	--	<2.0	--	--	--	--	--	--	--	--
	7/1/2003	8.52	3.08	NP	5.44	170	<50	<0.50	<0.50	<0.50	<1.0	--	<2.0	--	--	--	--	<500	--	--	--
	10/2/2003	8.52	3.89	NP	4.63	350	540	3.9	15	29	80	--	<2.0	--	--	--	--	<500	--	--	--
	1/9/2004	8.52	2.38	NP	6.14	180	<50	<0.50	<0.50	<0.50	<1.0	--	<2.0	--	--	--	--	<500	--	--	--
	4/26/2004	8.52	2.89	NP	5.63	100	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<50	--	--	--
	7/22/2004	8.52	3.25	NP	5.27	250	<50	<0.5	<0.5	<0.5	<1	--	<0.5	--	--	--	--	<1000	--	--	--

TABLE 3
HISTORICAL GROUNDWATER GAUGING AND ANALYTICAL DATA
76 STATION NO. 5191/5043
449 HEGENBERGER ROAD
OAKLAND, CALIFORNIA



Well I.D.	Date	GROUNDWATER GAUGING DATA				GROUNDWATER ANALYTICAL DATA														
		TOC Elevation (ft)	Depth to Water (ft)	LNAPL Thickness (ft)	Water Elevation* (ft)	TPHd (ug/L)	TPHg (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (SW8021B) (ug/L)	MTBE (SW8260B) (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	Ethanol (ug/L)	1,2-Dibromoethane (EDB) (ug/L)	1,2-Dichloroethane (ug/L)
MW-8	10/29/2004	8.52	3.06	NP	5.46	120	<50	<0.50	<0.50	0.82	2.5	--	<0.50	--	--	--	--	<50	--	--
	1/10/2005	8.52	1.92	NP	6.60	140	58	<0.50	0.61	1.2	4.0	--	<0.50	--	--	--	--	<50	--	--
	6/15/2005	8.52	2.22	NP	6.30	140	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<50	--	--
	9/27/2005	8.52	2.43	NP	6.09	<200	<50	<0.50	<0.50	1.2	<1.0	--	<0.50	<0.50	<0.50	<10	<250	--	--	--
	12/13/2005	8.52	2.89	NP	5.63	<200	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<250	--	--
	3/23/2006	8.52	2.12	NP	6.40	<200	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<250	--	--
	6/23/2006	8.52	2.65	NP	5.87	<230	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<250	--	--
	9/26/2006	8.52	2.75	NP	5.77	110	<50	<0.50	<0.50	<0.50	<0.50	--	<0.50	--	--	--	--	<250	--	--
	12/22/2006	8.52	2.58	NP	5.94	100	<50	<0.50	<0.50	<0.50	<0.50	--	<0.50	--	--	--	--	<250	--	--
	3/30/2007	8.52	2.74	NP	5.78	120	<50	<0.50	<0.50	<0.50	<0.50	--	<0.50	--	--	--	--	<250	--	--
	6/28/2007	8.52	2.90	NP	5.62	140	<50	<0.50	<0.50	<0.50	<0.50	--	<0.50	--	--	--	--	<250	--	--
	9/25/2007	8.52	3.26	NP	5.26	110	<50	<0.50	<0.50	<0.50	<0.50	--	<0.50	--	--	--	--	<250	--	--
	12/28/2007	8.52	2.64	NP	5.88	110	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<250	--	--
	3/22/2008	8.52	2.31	NP	6.21	<50	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<250	--	--
	6/23/2008	8.52	3.13	NP	5.39	<58	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<250	--	--
	9/19/2008	8.52	3.72	NP	4.80	79	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<250	--	--
	12/31/2008	8.52	2.98	NP	5.54	110	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<250	--	--
	3/27/2009	8.52	2.49	NP	6.03	89	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<250	--	--
	5/28/2009	8.52	3.12	NP	5.40	91	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<250	--	--
	9/17/2009	8.52	3.63	NP	4.89	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/29/2010	8.52	WI	WI	WI	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/30/2010	11.32	2.60	NP	8.72	182	<50.0	<0.50	<0.50	<0.50	<1.5	--	<0.50	--	--	--	--	<250	--	--
	7/6/2010	11.32	3.03	NP	8.29	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/20/2010	11.32	3.33	NP	7.99	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/8/2010	11.32	2.82	NP	8.50	116	<50.0	<0.50	<0.50	<0.50	<1.5	--	<0.50	--	--	--	--	<250	--	--
	3/14/2011	11.32	3.84	NP	7.48	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/2/2011	11.32	2.77	NP	8.55	--	<50.0	<0.50	<0.50	<0.50	<1.5	--	<0.50	--	--	<5.0	<250	--	--	--
	9/7/2011	11.32	2.84	NP	8.48	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/5/2011	11.32	2.68	NP	8.64	<50.0	<50.0	<0.50	<0.50	<0.50	<1.5	--	<0.50	--	--	--	--	<250	--	--
	3/6/2012	11.32	3.07	NP	8.25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
6/11/2012	11.32	3.08	NP	8.24	<37.9	<50.0	<0.50	<0.50	<0.50	<1.5	--	<0.50	--	--	8.3	<250	--	--	--	
9/6/2012	11.32	2.91	NP	8.41	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
12/13/2012	11.32	2.31	NP	9.01	<50	<50	<0.50	<0.50	<0.50	<0.50	--	<0.50	--	--	<5.0	<5.0	--	--	--	
3/14/2013	11.32	3.19	NP	8.13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
6/11/2013	11.32	3.4	NP	7.92	<50	<50	<0.50	<0.50	<0.50	<0.50	--	<0.50	--	--	<5.0	<5.0	--	--	--	
MW-9	2/21/1995	8.29	1.98	NP	6.31	71	70	ND	ND	ND	ND	--	--	--	--	--	--	--	--	
	5/18/1995	8.29	3.47	NP	4.82	ND	52	ND	1.1	ND	1.9	--	--	--	--	--	--	--	--	
	8/17/1995	8.29	1.49	NP	6.80	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	
	7/26/1996	8.29	0.28	NP	8.01	98	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	
	10/28/1996	8.29	1.15	NP	7.14	99	ND	ND	ND	ND	7.6	--	--	--	--	--	--	--	--	
	1/29/1997	8.29	1.05	NP	7.24	54	ND	ND	ND	ND	5.4	--	--	--	--	--	--	--	--	
	4/15/1997	8.29	1.88	NP	6.41	94	ND	ND	ND	ND	5.4	--	--	--	--	--	--	--	--	
	5/27/1997	8.29	1.05	NP	7.24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	7/15/1997	8.29	1.90	NP	6.39	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	
	10/9/1997	8.29	1.76	NP	6.53	160	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	
	1/14/1998	8.29	1.26	NP	7.03	110	ND	ND	ND	ND	3.0	--	--	--	--	--	--	--	--	
	4/1/1998	8.29	0.85	NP	7.44	110	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	
	7/15/1998	8.29	1.52	NP	6.77	200	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	
	10/16/1998	8.29	0.81	NP	7.48	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	
	1/25/1999	8.29	0.92	NP	7.37	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	
	4/15/1999	8.29	0.90	NP	7.39	ND	75	21	ND	ND	1.1	680	--	--	--	--	--	--	--	
	7/14/1999	8.29	1.04	NP	7.25	140	ND	1.9	ND	ND	ND	260	--	--	--	--	--	--	--	
	10/21/1999	8.29	1.23	NP	7.06	210	ND	ND	ND	ND	ND	170	--	--	--	--	--	--	--	
	1/20/2000	8.29	1.18	NP	7.11	519	ND	1.1	ND	ND	ND	35	--	--	--	--	--	--	--	
	4/13/2000	8.29	1.08	NP	7.21	81	160	0.64	ND	ND	ND	53	--	--	--	--	--	--	--	
	7/14/2000	8.29	1.43	NP	6.86	107	ND	ND	ND	ND	20.2	--	--	--	--	--	--	--	--	
	10/26/2000	8.29	1.38	NP	6.91	240	240	2.9	ND	ND	ND	56	--	--	--	--	--	--	--	
	1/3/2001	8.29	1.66	NP	6.63	164	166	0.763	0.776	ND	1.28	50.2	--	--	--	--	--	--	--	
	4/4/2001	8.29	1.27	NP	7.02	240	296	0.738	ND	ND	0.907	135	--	--	--	--	--	--	--	
	7/17/2001	8.29	1.38	NP	6.91	ND	ND	ND	ND	ND	ND	13	--	--	--	--	--	--	--	
10/1/2001	8.29	1.93	NP	6.36	<52	51	<0.50	<0.50	<0.50	<0.50	5.0	--	--	--	--	--	--	--		
1/31/2002	8.29	2.08	NP	6.21	200	<50	<0.50	<0.50	<0.50	<0.50	5.8	--	--	--	--	--	--	--		

TABLE 3
HISTORICAL GROUNDWATER GAUGING AND ANALYTICAL DATA
76 STATION NO. 5191/5043
449 HEGENBERGER ROAD
OAKLAND, CALIFORNIA



Well I.D.	Date	GROUNDWATER GAUGING DATA				GROUNDWATER ANALYTICAL DATA														
		TOC Elevation (ft)	Depth to Water (ft)	LNAPL Thickness (ft)	Water Elevation* (ft)	TPHd (ug/L)	TPHg (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (SW8021B) (ug/L)	MTBE (SW8260B) (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	Ethanol (ug/L)	1,2-Dibromoethane (EDB) (ug/L)	1,2-Dichloroethane (ug/L)
MW-9	4/18/2002	8.29	1.76	NP	6.53	<50	<50	<0.50	<0.50	<0.50	<0.50	5.1	--	--	--	--	--	--	--	--
	7/28/2002	8.29	1.57	NP	6.72	<50	<50	<0.50	<0.50	<0.50	<1.0	--	3.5	--	--	--	--	--	--	--
	10/9/2002	8.29	1.45	NP	6.84	100	<50	<0.50	<0.50	<0.50	<1.0	--	17	--	--	--	--	--	--	--
	1/2/2003	8.29	1.18	NP	7.11	<50	<50	<0.50	<0.50	<0.50	<1.0	--	8.6	--	--	--	--	--	--	--
	4/1/2003	8.29	2.04	NP	6.25	56	<50	<0.50	<0.50	<0.50	<1.0	--	9.4	--	--	--	--	--	--	--
	7/1/2003	8.29	2.80	NP	5.49	<50	<50	<0.50	<0.50	<0.50	<1.0	--	3.2	--	--	--	--	<500	--	--
	10/2/2003	8.29	2.70	NP	5.59	<50	<50	<0.50	<0.50	<0.50	<1.0	--	<2.0	--	--	--	--	<500	--	--
	1/9/2004	8.29	1.90	NP	6.39	91	74	<0.50	0.98	2.3	6.2	74	--	<2.0	--	--	--	<500	--	--
	4/26/2004	8.29	1.62	NP	6.67	<50	51	<0.50	<0.50	<0.50	<1.0	--	0.51	--	--	--	--	<50	--	--
	7/22/2004	8.29	1.88	NP	6.41	<200	76	<0.5	<0.5	<0.5	<1	--	0.78	--	--	--	--	<1000	--	--
	10/29/2004	8.29	1.28	NP	7.01	76	<50	<0.50	<0.50	<0.50	1.0	--	<0.50	--	--	--	--	<50	--	--
	1/10/2005	8.29	0.07	NP	8.22	77	93	0.60	2.3	2.4	9.0	--	<0.50	--	--	--	--	<50	--	--
	6/15/2005	8.29	1.70	NP	6.59	67	<50	<0.50	<0.50	<0.50	<1.0	--	6.6	--	--	--	--	<50	--	--
	9/27/2005	8.29	1.98	NP	6.31	<200	6.31	<0.50	0.73	<0.50	<1.0	--	2.3	<0.50	<0.50	<0.50	<10	<250	--	--
	12/13/2005	8.29	2.26	NP	6.03	<200	<50	<0.50	<0.50	<0.50	<1.0	--	2.9	--	--	--	--	<250	--	--
	3/23/2006	8.29	1.32	NP	6.97	<200	<50	<0.50	<0.50	<0.50	<1.0	--	2.7	--	--	--	--	<250	--	--
	6/23/2006	8.29	1.98	NP	6.31	<200	<50	<0.50	<0.50	<0.50	<1.0	--	1.9	--	--	--	--	<250	--	--
	9/26/2006	8.29	2.52	NP	5.77	<50	<50	<0.50	<0.50	<0.50	<0.50	--	<0.50	--	--	--	--	<250	--	--
	12/22/2006	8.29	1.98	NP	6.31	150	<50	<0.50	0.57	1.8	4.6	--	1.6	--	--	--	--	<250	--	--
	3/30/2007	8.29	2.01	NP	6.28	72	<50	<0.50	<0.50	<0.50	<0.50	--	3.4	--	--	--	--	<250	--	--
	6/28/2007	8.29	1.90	NP	6.39	1000	<50	<0.50	<0.50	<0.50	<0.50	--	4.9	--	--	--	--	<250	--	--
	9/25/2007	8.29	1.57	NP	6.72	100	<50	<0.50	<0.50	<0.50	<0.50	--	<0.50	--	--	--	--	<250	--	--
	12/28/2007	8.29	1.98	NP	6.31	56	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<250	--	--
	3/22/2008	8.29	0.80	NP	7.49	<50	<50	<0.50	<0.50	<0.50	<1.0	--	0.61	--	--	--	--	<250	--	--
	6/23/2008	8.29	1.80	NP	6.49	<50	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<250	--	--
	9/19/2008	8.29	2.43	NP	5.86	56	<50	<0.50	<0.50	<0.50	<1.0	--	3.9	--	--	--	--	<250	--	--
	12/31/2008	8.29	2.66	NP	5.63	<50	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<250	--	--
	3/27/2009	8.29	2.01	NP	6.28	<50	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<250	--	--
	5/28/2009	8.29	2.20	NP	6.09	<50	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<250	--	--
	9/17/2009	8.29	1.83	NP	6.46	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/17/2009	8.29	1.52	NP	6.77	105	<50.0	<0.50	<0.50	<0.50	<1.5	--	<0.50	--	--	--	--	<250	--	--
	3/29/2010	8.29	2.21	NP	6.08	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/30/2010	10.94	2.32	NP	8.62	95.0	<50.0	<0.50	<0.50	<0.50	<1.5	--	0.85	--	--	--	--	<250	--	--
7/6/2010	10.94	2.02	NP	8.92	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
9/20/2010	10.94	2.03	NP	8.91	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
12/8/2010	10.94	1.77	NP	9.17	<50.0	<50.0	<0.50	<0.50	<0.50	<1.5	--	<0.50	--	--	--	--	<250	--	--	
3/14/2011	10.94	2.24	NP	8.70	<50.0	<50.0	<0.50	<0.50	<0.50	<1.5	--	<0.50	--	--	--	<5.0	<250	--	--	
6/2/2011	10.94	2.24	NP	8.70	<50.0	<50.0	<0.50	<0.50	<0.50	<1.5	--	<0.50	--	--	--	<5.0	<250	--	--	
9/7/2011	10.94	2.46	NP	8.48	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
12/5/2011	10.94	2.43	NP	8.51	<50.0	<50.0	<0.50	<0.50	<0.50	<1.5	--	4.0	--	--	--	--	<250	--	--	
3/6/2012	10.94	3.03	NP	7.91	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
6/11/2012	10.94	1.75	NP	9.19	<37.9	<50.0	<0.50	<0.50	<0.50	<1.5	--	<0.50	--	--	--	<5.0	<250	--	--	
9/6/2012	10.94	1.24	NP	9.70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
12/13/2012	10.94	1.80	NP	9.14	<50	<50	<0.50	<0.50	<0.50	<0.50	--	<0.50	--	--	--	<5.0	<5.0	--	--	
3/14/2013	10.94	2.38	NP	8.56	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
6/11/2013	10.94	2.81	NP	8.13	<50	<50	<0.50	<0.50	<0.50	<0.50	--	4.2	--	--	--	<5.0	<5.0	--	--	
MW-10	2/21/1995	8.62	4.69	NP	3.93	270	1500	250	26	9.1	160	--	--	--	--	--	--	--	--	
	5/18/1995	8.62	4.92	NP	3.70	75	810	520	ND	18	23	--	--	--	--	--	--	--	--	
	8/17/1995	8.62	4.05	NP	4.57	ND	67	25	ND	2.4	ND	--	--	--	--	--	--	--	--	
	7/26/1996	8.62	4.08	NP	4.54	ND	ND	3.7	ND	ND	ND	ND	--	--	--	--	--	--	--	
	10/28/1996	8.62	4.09	NP	4.53	ND	ND	1.1	ND	ND	ND	1.1	--	--	--	--	--	--	--	
	1/29/1997	8.62	2.94	NP	5.68	ND	210	41	0.67	7.2	4.8	11	--	--	--	--	--	--	--	
	4/15/1997	8.62	4.07	NP	4.55	ND	110	12	ND	0.77	ND	9.7	--	--	--	--	--	--	--	
	5/27/1997	8.62	4.40	NP	4.22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	7/15/1997	8.62	4.19	NP	4.43	ND	ND	2.1	ND	0.67	0.73	ND	--	--	--	--	--	--	--	--
	10/9/1997	8.62	4.75	NP	3.87	ND	190	38	0.92	6.6	7.6	ND	--	--	--	--	--	--	--	--
	1/14/1998	8.62	2.66	NP	5.96	--	59	9.5	0.85	1.2	1.7	4.5	--	--	--	--	--	--	--	--
	4/1/1998	8.62	3.45	NP	5.17	62	230	66	1.7	12	17	6.4	--	--	--	--	--	--	--	--
	7/15/1998	8.62	4.21	NP	4.41	78	290	98	45	21	38	21	--	--	--	--	--	--	--	--
	10/16/1998	8.62	4.11	NP	4.51	ND	160	44	0.96	2.5	10	17	--	--	--	--	--	--	--	--
	1/25/1999	8.62	3.26	NP	5.36	ND	140	27	ND	2.8	6.8	23	--	--	--	--	--	--	--	--
4/15/1999	8.62	3.63	NP	4.99	ND	120	18	ND	1.8	5.1	14	--	--	--	--	--	--	--	--	

TABLE 3
 HISTORICAL GROUNDWATER GAUGING AND ANALYTICAL DATA
 76 STATION NO. 5191/5043
 449 HEGENBERGER ROAD
 OAKLAND, CALIFORNIA



Well I.D.	Date	GROUNDWATER GAUGING DATA				GROUNDWATER ANALYTICAL DATA														
		TOC Elevation (ft)	Depth to Water (ft)	LNAPL Thickness (ft)	Water Elevation* (ft)	TPHd (ug/L)	TPHg (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (SW8021B) (ug/L)	MTBE (SW8260B) (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	Ethanol (ug/L)	1,2-Dibromoethane (EDB) (ug/L)	1,2-Dichloroethane (ug/L)
MW-10	7/14/1999	8.62	3.89	NP	4.73	180	280	55	3.2	11	31	6.1	--	--	--	--	--	--	--	--
	10/21/1999	8.62	4.09	NP	4.53	96	140	22	0.59	1.7	7.7	5.3	--	--	--	--	--	--	--	--
	1/20/2000	8.62	3.92	NP	4.70	252	ND	0.73	0.86	ND	ND	5.2	--	--	--	--	--	--	--	--
	4/13/2000	8.62	3.85	NP	4.77	69	67	54	ND	2.6	ND	3.8	--	--	--	--	--	--	--	--
	7/14/2000	8.62	4.18	NP	4.44	149	ND	0.547	ND	ND	ND	ND	--	--	--	--	--	--	--	--
	10/26/2000	8.62	3.96	NP	4.66	83	ND	3.3	ND	0.83	1.5	ND	--	--	--	--	--	--	--	--
	1/3/2001	8.62	4.14	NP	4.48	126	52.7	5.15	ND	0.823	1.57	ND	--	--	--	--	--	--	--	--
	4/4/2001	8.62	3.88	NP	4.74	75	129	28.1	1.67	4.97	10.1	ND	--	--	--	--	--	--	--	--
	7/17/2001	8.62	4.08	NP	4.54	ND	ND	4.1	ND	1.0	1.8	ND	--	--	--	--	--	--	--	--
	10/1/2001	8.62	4.22	NP	4.40	100	140	30	0.51	4.0	12	<5.0	--	--	--	--	--	--	--	--
	1/31/2002	8.62	3.68	NP	4.94	170	110	16	<0.50	2.3	5.6	<2.5	--	--	--	--	--	--	--	--
	4/18/2002	8.62	4.01	NP	4.61	130	<50	11	<0.50	1.4	4.5	<2.5	--	--	--	--	--	--	--	--
	7/28/2002	8.62	4.11	NP	4.51	58	67	15	<0.50	0.94	7.3	--	<2.0	--	--	--	--	--	--	--
	10/9/2002	8.62	3.97	NP	4.65	<94	<50	0.67	<0.50	<0.50	<1.0	--	<2.0	--	--	--	--	--	--	--
	1/2/2003	8.62	3.03	NP	5.59	64	<50	<0.50	<0.50	<0.50	<1.0	--	<2.0	--	--	--	--	--	--	--
	4/1/2003	8.62	3.83	NP	4.79	76	<50	11	<0.50	<0.50	<1.0	--	<2.0	--	--	--	--	--	--	--
	7/1/2003	8.62	4.13	NP	4.49	87	<0.50	<0.50	<0.50	<0.50	<1.0	--	<2.0	--	--	--	--	<500	--	--
	10/2/2003	8.62	4.05	NP	4.57	160	77	9.9	0.78	2.3	4.9	--	<2.0	--	--	--	--	<500	--	--
	1/9/2004	8.62	3.40	NP	5.22	74	53	1.2	<0.50	0.70	1.6	--	<2.0	--	--	--	--	<500	--	--
	4/26/2004	8.62	3.89	NP	4.73	<50	<50	2.8	1.3	1.0	2.9	--	<0.50	--	--	--	--	<50	--	--
	7/22/2004	8.62	3.73	NP	4.89	<200	<50	<0.5	<0.5	<0.5	<1	--	<0.5	--	--	--	--	<1000	--	--
	10/29/2004	8.62	3.41	NP	5.21	<50	100	2.0	1.2	1.1	3.6	--	<0.50	--	--	--	--	<50	--	--
	1/10/2005	8.62	2.68	NP	5.94	94	84	7.8	2.7	2.2	8.9	--	<0.50	--	--	--	--	<50	--	--
	6/15/2005	8.62	4.63	NP	3.99	62	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<50	--	--
	9/27/2005	8.62	3.96	NP	4.66	<200	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	<0.50	<0.50	<0.50	<10	<250	--	--
	12/13/2005	8.62	3.75	NP	4.87	<200	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<250	--	--
	3/23/2006	8.62	3.13	NP	5.49	<200	50	13	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<250	--	--
	6/23/2006	8.62	3.90	NP	4.72	<200	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<250	--	--
	9/26/2006	8.62	3.66	NP	4.96	<50	<50	<0.50	<0.50	<0.50	<0.50	--	<0.50	--	--	--	--	<250	--	--
	12/22/2006	8.62	3.56	NP	5.06	81	<50	<0.50	<0.50	1.8	1.8	--	<0.50	--	--	--	--	<250	--	--
	3/30/2007	8.62	3.93	NP	4.69	82	<50	<0.50	<0.50	<0.50	<0.50	--	<0.50	--	--	--	--	<250	--	--
	6/28/2007	8.62	4.03	NP	4.59	57	<50	<0.50	<0.50	<0.50	<0.50	--	<0.50	--	--	--	--	<250	--	--
	9/25/2007	8.62	3.91	NP	4.71	82	<50	<0.50	<0.50	<0.50	<0.50	--	<0.50	--	--	--	--	<250	--	--
	12/28/2007	8.62	3.64	NP	4.98	62	<50	2.1	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<250	--	--
	3/22/2008	8.62	4.00	NP	4.62	64	13	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	--	<250	--	--
	6/23/2008	8.62	3.90	NP	4.72	94	30	0.53	3.4	3.5	3.5	--	<0.50	--	--	--	--	<250	--	--
	9/19/2008	8.62	3.85	NP	4.77	<50	130	15	1.7	5.7	11	--	<0.50	--	--	--	--	<250	--	--
	12/31/2008	8.62	3.69	NP	4.93	<50	82	11	<0.50	0.81	1.7	--	<0.50	--	--	--	--	<250	--	--
	3/27/2009	8.62	3.75	NP	4.87	730	210	28	1.4	1.2	3.9	--	<0.50	--	--	--	--	<250	--	--
	5/28/2009	8.62	3.66	NP	4.96	<50	<50	0.91	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<250	--	--
	9/17/2009	8.62	3.85	NP	4.77	65	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<250	--	--
	12/17/2009	8.62	3.00	NP	5.62	57.7	<50.0	1.2	<0.50	<0.50	<1.5	--	<0.50	--	--	--	--	<250	--	--
	3/29/2010	8.62	3.81	NP	4.81	82.2	<50.0	0.77	<0.50	<0.50	3.4	--	<0.50	--	--	--	--	<250	--	--
6/30/2010	10.97	3.90	NP	7.07	53.4	<50.0	<0.50	<0.50	<0.50	<1.5	--	<0.50	--	--	--	--	<250	--	--	
7/6/2010	10.97	3.73	NP	7.24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
9/20/2010	10.97	3.85	NP	7.12	<50.0	<50.0	<0.50	<0.50	<0.50	<1.5	--	<0.50	--	--	--	--	<250	--	--	
12/8/2010	10.97	3.63	NP	7.34	<50.0	<50.0	1.8	<0.50	<0.50	<1.5	--	<0.50	--	--	--	--	<250	--	--	
3/14/2011	10.97	3.46	NP	7.51	63.3	<50.0	1.1	<0.50	<0.50	<1.5	--	<0.50	--	--	--	<5.0	<250	--	--	
6/2/2011	10.97	3.92	NP	7.05	<50.0	58.7	4.8	4.2	0.96	5.1	--	<0.50	--	--	--	<5.0	<250	--	--	
9/7/2011	10.97	4.06	NP	6.91	<50.0	<50.0	4.1	<0.50	0.66	2.4	--	<0.50	--	--	--	--	<250	--	--	
12/5/2011	10.97	3.82	NP	7.15	<50.0	<50.0	<0.50	<0.50	<0.50	<1.5	--	<0.50	--	--	--	--	<250	--	--	
3/6/2012	10.97	3.74	NP	7.23	<50.0	<50.0	<0.50	<0.50	<0.50	<1.5	--	<0.50	--	--	--	58.7	<250	--	--	
6/11/2012	10.97	3.99	NP	6.98	<37.9	<50.0	0.79	<0.50	<0.50	<1.5	--	0.72	--	--	--	17.2	<250	--	--	
9/6/2012	10.97	4.00	NP	6.97	110	64	6.9	0.89	1.8	3.9	--	<0.50	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	
9/11/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
12/13/2012	10.97	3.40	NP	7.57	<50	120	15	1.1	1.7	5.2	--	<0.50	--	--	--	<5.0	<5.0	--	--	
3/14/2013	10.97	4.00	NP	6.97	<50	86	25	<0.50	0.6	0.8	--	<0.50	--	--	--	<5.0	<5.0	--	--	
6/11/2013	10.97	4.20	NP	6.77	<50	<50	<0.50	<0.50	<0.50	<0.50	--	<0.50	--	--	--	<5.0	<8.0	--	--	
MW-11	7/6/2010	10.53	2.44	NP	8.09	226	99.2	<0.50	<0.50	<0.50	<1.5	--	165	<0.50	<0.50	<0.50	174	<250	<1.0	<1.0
	9/20/2010	10.53	2.80	NP	7.73	<50.0	76.4 1n	<0.50	<0.50	<0.50	<1.5	--	82.7	--	--	--	--	<250	--	--
	12/8/2010	10.53	1.90	NP	8.63	52.7	<50.0	<0.50	<0.50	<0.50	<1.5	--	59.1	--	--	--	--	<250	--	--
	3/14/2011	10.53	1.89	NP	8.64	67.8	<50.0	<0.50	<0.50	<0.50	<1.5	--	44.0	--	--	--	<5.0	<250	--	--

TABLE 3
HISTORICAL GROUNDWATER GAUGING AND ANALYTICAL DATA
76 STATION NO. 5191/5043
449 HEGENBERGER ROAD
OAKLAND, CALIFORNIA



Well I.D.	Date	GROUNDWATER GAUGING DATA				GROUNDWATER ANALYTICAL DATA															
		TOC Elevation (ft)	Depth to Water (ft)	LNAPL Thickness (ft)	Water Elevation* (ft)	TPHd (ug/L)	TPHg (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (SW8021B) (ug/L)	MTBE (SW8260B) (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	Ethanol (ug/L)	1,2-Dibromoethane (EDB) (ug/L)	1,2-Dichloroethane (ug/L)	
MW-15	9/7/2011	11.11	2.54	NP	8.57	<50.0	412	6.2	<0.50	43	<1.5	--	128	--	--	--	--	<250	--	--	
	12/5/2011	11.11	2.70	NP	8.41	50.5 T4	201	6.6	<0.50	0.93	<1.5	--	142	--	--	--	--	<250	--	--	
	3/6/2012	11.11	2.69	NP	8.42	56.2 T4	<50.0	<0.50	<0.50	<0.50	<1.5	--	106	--	--	--	101	<250	--	--	
	6/11/2012	11.11	2.84	NP	8.27	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/12/2012	--	--	--	--	<37.9	74.3 1n	<0.50	<0.50	<0.50	<1.5	--	114	--	--	--	91	<250	--	--	
	9/6/2012	11.11	2.24	NP	8.87	64	59	<0.50	<0.50	<0.50	<0.50	--	76	<0.50	<0.50	<0.50	45	<5.0	<0.50	<0.50	
	12/13/2012	11.11	2.51	NP	8.60	<50	<50	<0.50	<0.50	<0.50	<0.50	--	33	--	--	--	7.4	<5.0	--	--	
	3/14/2013	11.11	2.91	NP	8.20	<50	<50	<0.50	<0.50	<0.50	<0.50	--	46	--	--	--	21.0	<5.0	--	--	
6/11/2013	11.11	3.36	NP	7.75	<50	<50	<0.50	<0.50	<0.50	<0.50	--	73	--	--	--	31.0	<5.0	--	--		
MW-16	6/2/2011	10.98	3.00	NP	7.98	509 T4	1,420 1n	79	<0.50	4	<1.5	--	1,200	--	--	--	257	<250	--	--	
	9/7/2011	10.98	2.65	NP	8.33	90.0 T4	934	<0.50	<0.50	<0.50	<1.5	--	1,240	--	--	--	--	<250	--	--	
	12/5/2011	10.98	3.18	NP	7.80	196 T4	948 1n	<0.50	<0.50	<0.50	<1.5	--	1,320	--	--	--	--	<250	--	--	
	3/6/2012	10.98	2.91	NP	8.07	204 T4	392 1n	<0.50	<0.50	<0.50	<1.5	--	1,090	--	--	--	134	<250	--	--	
	6/11/2012	10.98	3.04	NP	7.94	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	6/12/2012	--	--	--	--	48.1 T4	430 1n	<0.50	<0.50	<0.50	<1.5	--	1,100	--	--	--	374	<250	--	--	
	9/6/2012	10.98	2.61	NP	8.37	390	<150	<1.5	<1.5	<1.5	<1.5	--	960	<1.5	<1.5	<1.5	70	<15	<1.5	<1.5	
	12/13/2012	10.98	2.50	NP	8.48	52	<150	<1.5	<1.5	<1.5	<1.5	--	980	--	--	--	55	<20	--	--	
3/14/2013	10.98	3.15	NP	7.83	<50	<200	<2.0	<2.0	<2.0	<2.0	--	950	--	--	--	67	<20	--	--		
6/11/2013	10.98	3.19	NP	7.79	<50	<150	<1.5	<1.5	<1.5	<1.5	--	820	--	--	--	70	<15	--	--		
MW-17	6/2/2011	11.52	5.78	NP	5.74	687 T4	9,130	2,530	960	35	907	--	1	--	--	--	366	<250	--	--	
	9/7/2011	11.52	4.56	NP	6.96	1,900 T4	47,200	9,620	5,510	1,210	4,510	--	<25.0	--	--	--	--	<12500	--	--	
	12/5/2011	11.52	4.70	NP	6.82	1,790 T4	17,300	4,720	511	238	747	--	<2.5	--	--	--	--	<1250	--	--	
	3/6/2012	11.52	4.64	NP	6.88	1,530 T4	1,580	2,090	24	39	166	--	1	--	--	--	481	<250	--	--	
	6/11/2012	11.52	4.67	NP	6.85	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	6/12/2012	--	--	--	--	1,090 T4	4,950	2,340	123	153	610	--	<2.5	--	--	--	411	<1250	--	--	
	9/6/2012	11.52	4.39	NP	7.13	<1000	18,000	4,300	170	370	1,100	--	<10	<10	<10	<10	300	<100	<10	110	
	9/11/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	12/13/2012	11.52	4.20	NP	7.32	<100	55,000	7,300	2,700	1,700	4,600	--	<10	--	--	--	300	<100	--	--	
	3/14/2013	11.52	4.70	NP	6.82	<200	63,000	13,000	5,400	3,100	8,800	--	<15	--	--	--	260	<150	--	--	
6/11/2013	11.52	4.83	NP	6.69	710	110,000	10,000	11,000	3,100	12,000	--	<25	--	--	--	<150	<250	--	--		

Gauging Notes:

TOS - Top of Screen
ft - Feet
NP - LNAPL not present
LNAPL - Light non-aqueous phase liquid
* - Corrected for LNAPL if present (assumes LNAPL specific gravity = 0.75)
-- - No information available

Analytical Notes:

< - Below laboratory's indicated reporting limit
ug/L - micrograms/liter
DRO- diesel range organics
TPHd- Total petroleum hydrocarbons as diesel
TPHg- Total petroleum hydrocarbons as gasoline
MTBE- Methyl tertiary-butyl ether
TBA- Tertiary-butyl alcohol
Bold - Above the laboratory's indicated reporting limit
1n - The TPHg result for this sample did not match the laboratory standard for gasoline. This is likely due to the presence of MTBE in the sample.
T4- Result reported for the hydrocarbons within the method-specific range that do not match pattern of laboratory standard.

TABLE 3a
 ADDITIONAL HISTORICAL GROUNDWATER ANALYTICAL DATA
 76 STATION NO. 5191/5043
 449 HEGENBERGER ROAD
 OAKLAND, CALIFORNIA



Well I.D.	Date	GROUNDWATER ANALYTICAL DATA																			
		Acetone (ug/L)	Alkalinity, Bicarbonate (mg/L)	Alkalinity, Hydroxide (CaCO) (mg/L)	Alkalinity, Total A2320B (mg/L)	Alkalinity, Total as CaCO3 A2320B (mg/L)	Antimony (ug/L)	Arsenic (ug/L)	Barium (ug/L)	Beryllium (ug/L)	Biochemical Oxygen Demand (ug/L)	Bromate (mg/L)	Bromide (mg/L)	Cadmium S(ug/L)	Chemical Oxygen Demand (ug/L)	Chloride (ug/L)	Chromium (ug/L)	Chromium, Hexavalent (ug/L)	Cobalt (ug/L)	Coliform, Total (MPN/100ML)	E. Coli (MPN/100ML)
MW-6	3/14/2011	18	--	--	--	--	<60.0	23	216	<5.0	32,200	--	--	<5.0	173,000	204,000	--	--	<50.0	--	--
	6/2/2011	<5.0	828	<1	828	<1	<60.0	22.0	191	<5.0	45,100	<0.005	2	<5.0	121,000	149,000	4	<2	<50.0	42,000	<100
	9/7/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/5/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/6/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/11/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/12/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/6/2012	--	--	--	--	650	--	--	--	--	--	--	--	--	--	--	<5.0	<10	--	--	--
	9/11/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
12/13/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-9	3/14/2011	<5.0	--	--	--	--	<60.0	<20.0	<100	<5.0	7,160.0	--	--	<5.0	11,500.0	34,700.0	--	--	<50.0	--	--
	6/2/2011	<5.0	226.0	<1	226.0	<1	<60.0	<20.0	<100	<5.0	4,170.0	<0.005	2.0	<5.0	15,100.0	32,400.0	2.4	<0.2	<50.0	2.0	<1
	9/7/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/5/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/6/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/11/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/6/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/13/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-10	9/6/2012	--	--	--	--	561	--	--	--	--	--	--	--	--	--	--	17	<10	--	--	--
	9/11/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/13/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-12	3/14/2011	<5.0	--	--	--	--	<60.0	<20.0	<100	<5.0	<2000	--	--	<5.0	80,100	8,240,000	--	--	<50.0	--	--
	6/2/2011	<5.0	905	<1	905	<1	<60.0	<20.0	<100	<5.0	7,240	<0.05	33	<5.0	191,000	7,260,000	3	<2	<50.0	210	<1
	9/7/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/5/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/6/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/11/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/12/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/6/2012	--	--	--	--	806	--	--	--	--	--	--	--	--	--	--	<5.0	<10	--	--	--
12/13/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-14	9/6/2012	--	--	--	--	1,720	--	--	--	--	--	--	--	--	--	--	24	<10	--	--	--
	9/11/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/13/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-17	9/6/2012	--	--	--	--	2,820	--	--	--	--	--	--	--	--	--	--	38	<10	--	--	--
	9/11/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/13/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Analytical Notes:
 < - Below laboratory's indicated reporting limit
 mg/L - milligrams per liter
 MPN/100ML - most probable number per 100 ml
 ug/L - micrograms/liter
 Bold - Above the laboratory's indicated reporting limit

TABLE 3b
 ADDITIONAL HISTORICAL GROUNDWATER ANALYTICAL DATA
 76 STATION NO. 5191/504
 449 HEGENERBERGER ROAD
 OAKLAND, CALIFORNIA



Well I.D.	Date	GROUND WATER ANALYTICAL DATA																		
		Inorganic Carbon (mg/L)	Iron SW6010 D (ug/L)	Iron SW6010 T (ug/L)	Iron, Ferric (ug/L)	Iron, Ferrous (ug/L)	Lead (ug/L)	Manganese (ug/L)	Mercury (ug/L)	Methane (ug/L)	Molybdenum (ug/L)	Nickel (ug/L)	Nitrate as N E300.0 (mg/L)	Nitrate as N E353/E351 (ug/L)	Nitrite as N (ug/L)	Nitrogen, Ammonia (mg/L)	Nitrogen, NO2 plus NO3 (ug/L)	Nitrogen, Total Kjeldahl (mg/L)	Oil and Grease (ug/L)	Salinity (mg/L)
MW-3	12/17/2009	--	--	12,300	--	--	--	--	--	--	--	--	--	<50.0	<50.0	--	<50.0	--	--	--
	3/29/2010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/30/2010	--	5,550	10,700	--	--	--	--	--	--	--	--	--	<50.0	95.0	--	76	--	--	--
	7/6/2010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/20/2010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/8/2010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/14/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/2/2011	--	--	13,600	--	--	--	--	--	--	--	--	--	<50.0	<10.0	--	53	--	--	--
	9/7/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/5/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/6/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/11/2012	--	--	10,900	--	--	--	--	--	--	--	--	--	<50.0	<10	--	<50.0	--	--	--
	9/6/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
12/13/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	9/17/2009	--	--	1,500	--	--	--	--	--	--	--	<0.00044	<0.44	--	--	--	--	--	--	--
	12/17/2009	--	--	2,460	--	--	--	--	--	--	--	--	<50.0	<50.0	--	<50.0	--	--	--	--
	3/29/2010	--	1,790	1,510	--	--	--	--	--	--	--	--	<50.0	41	--	55	--	--	--	--
	6/30/2010	--	946	2,310	--	--	--	--	--	--	--	--	<50.0	58	--	69	--	--	--	--
	7/6/2010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/20/2010	--	2,730	2,600	--	--	--	--	--	--	--	--	<50.0	<10.0	--	52	--	--	--	--
	12/8/2010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/14/2011	--	--	4,900	3,900	1,000	27	1,270	<0.20	474	<20.0	<40.0	--	50	<10.0	--	54	--	--	--
	6/2/2011	870	--	4,320	2,520	1,800	23	1,510	<0.20	445	<20.0	<40.0	--	<50.0	<10.0	3	51	5	--	1,500
	9/7/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/5/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/6/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/11/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/12/2012	--	--	1,240	--	--	--	--	--	--	--	--	--	<50.0	<10	--	<50.0	--	--	--
9/6/2012	--	--	--	1,000	--	--	--	--	2,890	--	--	--	--	--	--	--	--	--	--	
9/11/2012	--	--	--	--	--	--	--	--	--	--	--	<0.10	--	--	--	--	--	--	--	
12/13/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-7	6/30/2010	--	836	7,550	--	--	--	--	--	--	--	--	<50.0	74	--	74	--	--	--	--
	7/6/2010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/20/2010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/8/2010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/14/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/2/2011	--	--	7,800	--	--	--	--	--	--	--	--	--	233	<10.0	--	239	--	--	--
	9/7/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/5/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/6/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/11/2012	--	--	264	--	--	--	--	--	--	--	--	--	<50.0	67	--	111	--	--	--
9/6/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
12/13/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-8	6/30/2010	--	4,710	8,000	--	--	--	--	--	--	--	--	<50.0	68	--	60	--	--	--	--
	7/6/2010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/20/2010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/8/2010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/14/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/2/2011	--	--	24,900	--	--	--	--	--	--	--	--	--	61	<10.0	--	61	--	--	--
	9/7/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/5/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3/6/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
6/11/2012	--	--	21,000	--	--	--	--	--	--	--	--	--	<50.0	48	--	<50.0	--	--	--	
9/6/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
12/13/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	12/17/2009	--	--	2,270	--	--	--	--	--	--	--	--	<50.0	<50.0	--	<50.0	--	--	--	--
	3/29/2010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/30/2010	--	3,210	8,820	--	--	--	--	--	--	--	--	<50.0	15	--	<50.0	--	--	--	--
	7/6/2010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/20/2010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

TABLE 3b
 ADDITIONAL HISTORICAL GROUNDWATER ANALYTICAL DATA
 76 STATION NO. 5191/504
 449 HEGENBERGER ROAD
 OAKLAND, CALIFORNIA



Well I.D.	Date	GROUND WATER ANALYTICAL DATA																			
		Inorganic Carbon (mg/L)	Iron SW6010 D (ug/L)	Iron SW6010 T (ug/L)	Iron, Ferric (ug/L)	Iron, Ferrous (ug/L)	Lead (ug/L)	Manganese (ug/L)	Mercury (ug/L)	Methane (ug/L)	Molybdenum (ug/L)	Nickel (ug/L)	Nitrate as N E300.0 (mg/L)	Nitrate as N E353/E351 (ug/L)	Nitrite as N (ug/L)	Nitrogen, Ammonia (mg/L)	Nitrogen, NO2 plus NO3 (ug/L)	Nitrogen, Total Kjeldahl (mg/L)	Oil and Grease (ug/L)	Salinity (mg/L)	
MW-9	12/8/2010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	3/14/2011	--	--	1,560	157	1,400	<10.0	148	<0.20	419	<20.0	<40.0	--	<50.0	<10.0	--	<50.0	--	--	--	
	6/2/2011	240	--	1,260	1,060	200	<10.0	92	<0.20	673	<20.0	<40.0	--	<50.0	<10.0	1	<50.0	1	--	405	
	9/7/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	12/5/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	3/6/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/11/2012	--	--	731	--	--	--	--	--	--	--	--	--	<50.0	<10	--	<50.0	--	--	--	
	9/6/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
12/13/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-10	9/17/2009	--	--	9,800	--	--	--	--	--	--	--	0	12	--	--	--	--	--	--	--	
	12/17/2009	--	--	3,410	--	--	--	--	--	--	--	--	1,970	60	--	2,030	--	--	--	--	
	3/29/2010	--	365	2,410	--	--	--	--	--	--	--	--	1,960	19	--	1,970	--	--	--	--	
	6/30/2010	--	216	1,860	--	--	--	--	--	--	--	--	2,120	68	--	2,190	--	--	--	--	
	7/6/2010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	9/20/2010	--	280	3,080	--	--	--	--	--	--	--	--	--	2,690	68	--	2,750	--	--	--	--
	12/8/2010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/14/2011	--	--	2,620	--	--	--	--	--	--	--	--	--	--	--	--	2,350	--	--	--	--
	6/2/2011	--	--	9,870	--	--	--	--	--	--	--	--	--	1,290	49	--	1,340	--	--	--	--
	9/7/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/5/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/6/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/11/2012	--	--	11,300	--	--	--	--	--	--	--	--	--	1,510	57	--	1,570	--	--	--	--
	9/6/2012	--	--	--	11,000	--	--	--	--	467	--	--	--	--	--	--	--	--	--	--	--
9/11/2012	--	--	--	--	--	--	--	--	--	--	--	0	--	--	--	--	--	--	--	--	
12/13/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-11	7/6/2010	--	<100	3,510	--	--	--	--	--	--	--	--	<50.0	31.0	--	67	--	--	--	--	
	9/20/2010	--	<100	1,690	--	--	--	--	--	--	--	--	167	<10.0	--	172	--	--	--	--	
	12/8/2010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	3/14/2011	--	--	756	--	--	--	--	--	--	--	--	--	--	--	<50.0	--	--	--	--	
	6/2/2011	--	--	1,040	--	--	--	--	--	--	--	--	--	110	<10.0	--	115	--	--	--	--
	9/7/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/5/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/6/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/11/2012	--	--	1,300	--	--	--	--	--	--	--	--	--	89	<10	--	94	--	--	--	--
	9/6/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
12/13/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-12	7/6/2010	--	<100	30,200	--	--	--	--	--	--	--	--	<50.0	61	--	<50.0	--	--	--	--	
	9/20/2010	--	552	3,890	--	--	--	--	--	--	--	--	72	<10.0	--	75	--	--	--	--	
	12/8/2010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	3/14/2011	--	--	793	593	200	<10.0	12,400	<0.20	114	<20.0	151	--	<50.0	61	--	54	--	--	--	--
	6/2/2011	1,100	--	9,340	8,740	600	<10.0	12,800	<0.20	287	<20.0	119	--	<50.0	<10.0	0	58.0	1	--	15,600	
	9/7/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/5/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/6/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/11/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/12/2012	--	--	497	--	--	--	--	--	--	--	--	--	<50.0	<10	--	<50.0	--	--	--	--
9/6/2012	--	--	--	190	--	--	--	--	64	--	--	--	--	--	--	--	--	--	--	--	
12/13/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-12A	7/6/2010	--	716	57,300	--	--	--	--	--	--	--	--	3,680	164	--	3,840	--	--	--	--	
	9/20/2010	--	<100	523	--	--	--	--	--	--	--	--	4,680	10	--	4,690	--	--	--	--	
	12/8/2010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/14/2011	--	--	523	--	--	--	--	--	--	--	--	--	--	--	--	4,790	--	--	--	--
	6/2/2011	--	--	754	--	--	--	--	--	--	--	--	--	4,710	<10.0	--	4,720	--	--	--	--
	9/7/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/5/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/6/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/11/2012	--	--	859	--	--	--	--	--	--	--	--	--	4,250	<10	--	4,260	--	--	--	--
	9/6/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
12/13/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	

TABLE 3b
 ADDITIONAL HISTORICAL GROUNDWATER ANALYTICAL DATA
 76 STATION NO. 5191/504
 449 HEGENERBERGER ROAD
 OAKLAND, CALIFORNIA



Well I.D.	Date	GROUND WATER ANALYTICAL DATA																	
		Inorganic Carbon (mg/L)	Iron SW6010 D (ug/L)	Iron SW6010 T (ug/L)	Iron, Ferric (ug/L)	Iron, Ferrous (ug/L)	Lead (ug/L)	Manganese (ug/L)	Mercury (ug/L)	Methane (ug/L)	Molybdenum (ug/L)	Nickel (ug/L)	Nitrate as N E300.0 (mg/L)	Nitrate as N E353/E351 (ug/L)	Nitrite as N (ug/L)	Nitrogen, Ammonia (mg/L)	Nitrogen, NO2 plus NO3 (ug/L)	Nitrogen, Total Kjeldahl (mg/L)	Oil and Grease (ug/L)
MW-13	7/6/2010	--	116	92,600	--	--	--	--	--	--	--	--	--	65	--	70	--	--	--
	9/20/2010	--	279	59,500	--	--	--	--	--	--	--	--	--	<50.0	<10.0	--	<50.0	--	--
	12/8/2010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/14/2011	--	--	44,600	--	--	--	--	--	--	--	--	--	--	--	--	<50.0	--	--
	6/2/2011	--	--	36,700	--	--	--	--	--	--	--	--	--	72	15	--	86.0	--	--
	9/7/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/5/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/6/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/11/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/12/2012	--	--	3,760	--	--	--	--	--	--	--	--	--	<50.0	19	--	<50.0	--	--
	9/6/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
12/13/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-14	6/2/2011	--	--	47,500	--	--	--	--	--	--	--	--	<50.0	10	--	50	--	--	
	9/7/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	12/5/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	3/6/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	6/11/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	6/12/2012	--	--	1,150	--	--	--	--	--	--	--	--	<50.0	<10	--	<50.0	--	--	
	9/6/2012	--	--	--	8,900	--	--	--	718	--	--	--	--	--	--	--	--	--	
	9/11/2012	--	--	--	--	--	--	--	--	--	--	--	<0.10	--	--	--	--	--	
12/13/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-15	6/2/2011	--	--	11,700	--	--	--	--	--	--	--	--	890	38.0	--	928	--	--	
	9/7/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	12/5/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	3/6/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	6/11/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	6/12/2012	--	--	2,920	--	--	--	--	--	--	--	--	<50.0	<10	--	<50.0	--	--	
	9/6/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
12/13/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-16	6/2/2011	--	--	34,200	--	--	--	--	--	--	--	--	<50.0	<10.0	--	<50.0	--	--	
	9/7/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	12/5/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	3/6/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	6/11/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	6/12/2012	--	--	1,730	--	--	--	--	--	--	--	--	<50.0	<10	--	<50.0	--	--	
	9/6/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
12/13/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-17	6/2/2011	--	--	109,000	--	--	--	--	--	--	--	--	<50.0	30	--	<50.0	--	--	
	9/7/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	12/5/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	3/6/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	6/11/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	6/12/2012	--	--	44,300	--	--	--	--	--	--	--	--	<50.0	39	--	<50.0	--	--	
	9/6/2012	--	--	--	21,000	--	--	--	182	--	--	--	--	--	--	--	--	--	
	9/11/2012	--	--	--	--	--	--	--	--	--	--	--	<0.50	--	--	--	--	--	
12/13/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		

Analytical Notes:
 < - Below laboratory's indicated reporting limit
 mg/L - milligrams per liter
 ug/L - micrograms/liter
 Bold - Above the laboratory's indicated reporting limit

TABLE 3c
 ADDITIONAL HISTORICAL GROUNDWATER ANALYTICAL DATA
 76 STATION NO. 5191/5041
 449 HEGENBERGER ROAD
 OAKLAND, CALIFORNIA



Well I.D.	Date	GROUNDWATER ANALYTICAL DATA							
		Selenium (ug/L)	Silver (ug/L)	Sulfate E300 (ug/L)	Sulfate E300.1 (mg/L)	Thallium (ug/L)	Total Organic Carbon (mg/L)	Vanadium (ug/L)	Zinc (ug/L)
MW-3	12/17/2009	--	--	--	<0.5	--	--	--	--
	3/29/2010	--	--	--	--	--	--	--	--
	6/30/2010	--	--	<5000	--	--	--	--	--
	7/6/2010	--	--	--	--	--	--	--	--
	9/20/2010	--	--	--	--	--	--	--	--
	12/8/2010	--	--	--	--	--	--	--	--
	3/14/2011	--	--	--	--	--	--	--	--
	6/2/2011	--	--	<5000	--	--	--	--	--
	9/7/2011	--	--	--	--	--	--	--	--
	12/5/2011	--	--	--	--	--	--	--	--
	3/6/2012	--	--	--	--	--	--	--	--
	6/11/2012	--	--	<2000	--	--	--	--	--
	9/6/2012	--	--	--	--	--	--	--	--
	12/13/2012	--	--	--	--	--	--	--	--
MW-6	9/17/2009	--	--	<1.0	<0.0010	--	--	--	--
	12/17/2009	--	--	--	<0.5	--	--	--	--
	3/29/2010	--	--	<1000	--	--	--	--	--
	6/30/2010	--	--	<5000	--	--	--	--	--
	7/6/2010	--	--	--	--	--	--	--	--
	9/20/2010	--	--	<1000	--	--	--	--	--
	12/8/2010	--	--	--	--	--	--	--	--
	3/14/2011	<10.0	<10.0	35,400	--	<20.0	--	<50.0	<40.0
	6/2/2011	<10.0	<10.0	38,900	--	<20.0	41	<50.0	<40.0
	9/7/2011	--	--	--	--	--	--	--	--
	12/5/2011	--	--	--	--	--	--	--	--
	3/6/2012	--	--	--	--	--	--	--	--
	6/11/2012	--	--	--	--	--	--	--	--
	6/12/2012	--	--	1,110	--	--	--	--	--
9/6/2012	--	--	--	--	--	--	--	--	
9/11/2012	--	--	--	--	--	--	--	--	
12/13/2012	--	--	--	--	--	--	--	--	
MW-7	6/30/2010	--	--	191,000	--	--	--	--	--
	7/6/2010	--	--	--	--	--	--	--	--
	9/20/2010	--	--	--	--	--	--	--	--
	12/8/2010	--	--	--	--	--	--	--	--
	3/14/2011	--	--	--	--	--	--	--	--
6/2/2011	--	--	48,900	--	--	--	--	--	

TABLE 3c
 ADDITIONAL HISTORICAL GROUNDWATER ANALYTICAL DATA
 76 STATION NO. 5191/5041
 449 HEGENBERGER ROAD
 OAKLAND, CALIFORNIA



Well I.D.	Date	GROUNDWATER ANALYTICAL DATA							
		Selenium (ug/L)	Silver (ug/L)	Sulfate E300 (ug/L)	Sulfate E300.1 (mg/L)	Thallium (ug/L)	Total Organic Carbon (mg/L)	Vanadium (ug/L)	Zinc (ug/L)
MW-7	9/7/2011	--	--	--	--	--	--	--	--
	12/5/2011	--	--	--	--	--	--	--	--
	3/6/2012	--	--	--	--	--	--	--	--
	6/11/2012	--	--	56,900	--	--	--	--	--
	9/6/2012	--	--	--	--	--	--	--	--
	12/13/2012	--	--	--	--	--	--	--	--
MW-8	6/30/2010	--	--	2,360,000	--	--	--	--	--
	7/6/2010	--	--	--	--	--	--	--	--
	9/20/2010	--	--	--	--	--	--	--	--
	12/8/2010	--	--	--	--	--	--	--	--
	3/14/2011	--	--	--	--	--	--	--	--
	6/2/2011	--	--	2,830,000	--	--	--	--	--
	9/7/2011	--	--	--	--	--	--	--	--
	12/5/2011	--	--	--	--	--	--	--	--
	3/6/2012	--	--	--	--	--	--	--	--
	6/11/2012	--	--	2,570,000	--	--	--	--	--
	9/6/2012	--	--	--	--	--	--	--	--
12/13/2012	--	--	--	--	--	--	--	--	
MW-9	12/17/2009	--	--	--	11	--	--	--	--
	3/29/2010	--	--	--	--	--	--	--	--
	6/30/2010	--	--	19,000	--	--	--	--	--
	7/6/2010	--	--	--	--	--	--	--	--
	9/20/2010	--	--	--	--	--	--	--	--
	12/8/2010	--	--	--	--	--	--	--	--
	3/14/2011	<10.0	<10.0	8,980	--	<20.0	--	<50.0	<40.0
	6/2/2011	<10.0	<10.0	18,600	--	<20.0	5	<50.0	<40.0
	9/7/2011	--	--	--	--	--	--	--	--
	12/5/2011	--	--	--	--	--	--	--	--
	3/6/2012	--	--	--	--	--	--	--	--
	6/11/2012	--	--	42,500	--	--	--	--	--
9/6/2012	--	--	--	--	--	--	--	--	
12/13/2012	--	--	--	--	--	--	--	--	
MW-10	9/17/2009	--	--	84	0	--	--	--	--
	12/17/2009	--	--	--	86	--	--	--	--
	3/29/2010	--	--	73,600	--	--	--	--	--
	6/30/2010	--	--	70,800	--	--	--	--	--
	7/6/2010	--	--	--	--	--	--	--	--

TABLE 3c
 ADDITIONAL HISTORICAL GROUNDWATER ANALYTICAL DATA
 76 STATION NO. 5191/5041
 449 HEGENBERGER ROAD
 OAKLAND, CALIFORNIA



Well I.D.	Date	GROUNDWATER ANALYTICAL DATA							
		Selenium (ug/L)	Silver (ug/L)	Sulfate E300 (ug/L)	Sulfate E300.1 (mg/L)	Thallium (ug/L)	Total Organic Carbon (mg/L)	Vanadium (ug/L)	Zinc (ug/L)
MW-10	9/20/2010	--	--	82,000	--	--	--	--	--
	12/8/2010	--	--	--	--	--	--	--	--
	3/14/2011	--	--	68,600	--	--	--	--	--
	6/2/2011	--	--	71,700	--	--	--	--	--
	9/7/2011	--	--	--	--	--	--	--	--
	12/5/2011	--	--	--	--	--	--	--	--
	3/6/2012	--	--	--	--	--	--	--	--
	6/11/2012	--	--	70,100	--	--	--	--	--
	9/6/2012	--	--	--	--	--	--	--	--
	12/13/2012	--	--	--	--	--	--	--	--
MW-11	7/6/2010	--	--	82,100	--	--	--	--	--
	9/20/2010	--	--	58,300	--	--	--	--	--
	12/8/2010	--	--	--	--	--	--	--	--
	3/14/2011	--	--	59,900	--	--	--	--	--
	6/2/2011	--	--	62,900	--	--	--	--	--
	9/7/2011	--	--	--	--	--	--	--	--
	12/5/2011	--	--	--	--	--	--	--	--
	3/6/2012	--	--	--	--	--	--	--	--
	6/11/2012	--	--	79,400	--	--	--	--	--
	12/13/2012	--	--	--	--	--	--	--	--
MW-12	7/6/2010	--	--	3,030,000	--	--	--	--	--
	9/20/2010	--	--	1,970,000	--	--	--	--	--
	12/8/2010	--	--	--	--	--	--	--	--
	3/14/2011	<10.0	<10.0	2,500,000	--	<20.0	--	<50.0	<40.0
	6/2/2011	<10.0	<10.0	2,330,000	--	<20.0	9	<50.0	<40.0
	9/7/2011	--	--	--	--	--	--	--	--
	12/5/2011	--	--	--	--	--	--	--	--
	3/6/2012	--	--	--	--	--	--	--	--
	6/11/2012	--	--	--	--	--	--	--	--
	6/12/2012	--	--	2,130,000	--	--	--	--	--
MW-12A	7/6/2010	--	--	100,000	--	--	--	--	--
	9/20/2010	--	--	82,500	--	--	--	--	--
	12/8/2010	--	--	--	--	--	--	--	--

TABLE 3c
 ADDITIONAL HISTORICAL GROUNDWATER ANALYTICAL DATA
 76 STATION NO. 5191/5041
 449 HEGENBERGER ROAD
 OAKLAND, CALIFORNIA



Well I.D.	Date	GROUNDWATER ANALYTICAL DATA							
		Selenium (ug/L)	Silver (ug/L)	Sulfate E300 (ug/L)	Sulfate E300.1 (mg/L)	Thallium (ug/L)	Total Organic Carbon (mg/L)	Vanadium (ug/L)	Zinc (ug/L)
MW-12A	3/14/2011	--	--	81,000	--	--	--	--	--
	6/2/2011	--	--	101,000	--	--	--	--	--
	9/7/2011	--	--	--	--	--	--	--	--
	12/5/2011	--	--	--	--	--	--	--	--
	3/6/2012	--	--	--	--	--	--	--	--
	6/11/2012	--	--	118,000	--	--	--	--	--
	9/6/2012	--	--	--	--	--	--	--	--
	12/13/2012	--	--	--	--	--	--	--	--
MW-13	7/6/2010	--	--	450,000	--	--	--	--	--
	9/20/2010	--	--	241,000	--	--	--	--	--
	12/8/2010	--	--	--	--	--	--	--	--
	3/14/2011	--	--	375,000	--	--	--	--	--
	6/2/2011	--	--	188,000	--	--	--	--	--
	9/7/2011	--	--	--	--	--	--	--	--
	12/5/2011	--	--	--	--	--	--	--	--
	3/6/2012	--	--	--	--	--	--	--	--
	6/11/2012	--	--	--	--	--	--	--	--
	6/12/2012	--	--	131,000	--	--	--	--	--
	9/6/2012	--	--	--	--	--	--	--	--
	12/13/2012	--	--	--	--	--	--	--	--
MW-14	6/2/2011	--	--	56,300	--	--	--	--	--
	9/7/2011	--	--	--	--	--	--	--	--
	12/5/2011	--	--	--	--	--	--	--	--
	3/6/2012	--	--	--	--	--	--	--	--
	6/11/2012	--	--	--	--	--	--	--	--
	6/12/2012	--	--	439,000	--	--	--	--	--
	9/6/2012	--	--	--	--	--	--	--	--
	12/13/2012	--	--	--	--	--	--	--	--
MW-15	6/2/2011	--	--	62,700	--	--	--	--	--
	9/7/2011	--	--	--	--	--	--	--	--
	12/5/2011	--	--	--	--	--	--	--	--
	3/6/2012	--	--	--	--	--	--	--	--
	6/11/2012	--	--	--	--	--	--	--	--
	6/12/2012	--	--	42,100	--	--	--	--	--
	9/6/2012	--	--	--	--	--	--	--	--
12/13/2012	--	--	--	--	--	--	--	--	

TABLE 3c
 ADDITIONAL HISTORICAL GROUNDWATER ANALYTICAL DATA
 76 STATION NO. 5191/5041
 449 HEGENBERGER ROAD
 OAKLAND, CALIFORNIA



Well I.D.	Date	GROUNDWATER ANALYTICAL DATA							
		Selenium (ug/L)	Silver (ug/L)	Sulfate E300 (ug/L)	Sulfate E300.1 (mg/L)	Thallium (ug/L)	Total Organic Carbon (mg/L)	Vanadium (ug/L)	Zinc (ug/L)
MW-16	6/2/2011	--	--	8,740	--	--	--	--	--
	9/7/2011	--	--	--	--	--	--	--	--
	12/5/2011	--	--	--	--	--	--	--	--
	3/6/2012	--	--	--	--	--	--	--	--
	6/11/2012	--	--	--	--	--	--	--	--
	6/12/2012	--	--	19,900	--	--	--	--	--
	9/6/2012	--	--	--	--	--	--	--	--
	12/13/2012	--	--	--	--	--	--	--	--
MW-17	6/2/2011	--	--	3,920,000	--	--	--	--	--
	9/7/2011	--	--	--	--	--	--	--	--
	12/5/2011	--	--	--	--	--	--	--	--
	3/6/2012	--	--	--	--	--	--	--	--
	6/11/2012	--	--	--	--	--	--	--	--
	6/12/2012	--	--	2,520,000	--	--	--	--	--
	9/6/2012	--	--	--	--	--	--	--	--
	12/13/2012	--	--	--	--	--	--	--	--

Analytical Notes:

< - Below laboratory's indicated reporting limit

mg/L - milligrams per liter

ug/L - micrograms/liter

Bold - Above the laboratory's indicated reporting limit

TABLE 4
Historical Groundwater Gradient and Flow Direction Data
76 Station No. 5191/5043
449 Hegenberger Road
Oakland, California

Site	Monitoring Date	Groundwater Gradient (feet per foot)	Groundwater Flow Direction															
			N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW
	04/22/92		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
	08/31/92	0.05	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
	11/30/92	0.04	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	
	02/07/94		0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	
	11/14/94	0.03	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	
	02/21/95	0.08	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	
	05/18/95	0.07	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	
	07/26/96	0.02	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	
	10/28/96	0.02	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	
	01/29/97	0.01	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	
	04/15/97	0.01	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	
	07/15/97	0.10	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	
	10/09/97	0.10	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	
	01/14/98	0.02	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	
	04/01/98	0.05	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
	07/15/98	0.04	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	
	09/30/98	0.05	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	
	01/25/99	0.05	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	
	04/15/99	0.04	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	
	10/21/99	0.03	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	
	07/14/99	0.04	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	
	04/13/00	0.050	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	
	07/14/00	0.033	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	
	10/26/00	0.060	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	
	01/03/01	0.070	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	
	07/17/01	0.040	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	
	10/01/01	0.030	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	
	01/31/02	0.010	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	
	07/28/02	0.020	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	
	10/09/02	0.016	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	
	01/02/03	0.010	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	
	04/01/03	0.008	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	
	07/29/09	0.010	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	
	10/02/03	0.010	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	
	01/09/04	0.010	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	
	04/26/04	0.010	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
	07/22/04	0.010	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
	10/29/04	0.010	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
	01/10/05	0.010	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
	06/15/05	0.020	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	
	09/27/05	0.010	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	
	12/13/05	0.005	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	
	03/23/06	0.010	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
	06/23/06	0.010	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
	09/26/06	0.010	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	
	12/22/06	0.010	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
	03/30/07	0.010	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	
	09/25/07	0.010	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
	12/28/07	0.010	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
	06/28/07	0.010	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
	03/22/08	0.020	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
	06/23/08	0.010	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
	09/19/08	0.006	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	
	12/31/08	0.005	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	
	03/27/09	0.006	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	
	05/28/09	0.008	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	
	09/17/09	0.010	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	
	12/17/09	0.008	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	
	03/29/10	0.010	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	
	06/30/10	0.009	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	
	09/20/10	0.007	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	
	12/08/10	0.018	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	
	03/14/11	0.020	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	
	06/02/11	0.020	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	
	09/07/11	0.020	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	
	12/05/11	0.020	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	
	03/06/12	0.010	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	
	06/11/12	0.050	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	
	09/06/12	Variable	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	12/13/12	0.020	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	
	03/14/13	0.050	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	
	06/11/13	0.001	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	
		0.025 Average	0	0	0	0	0	1	32	1	13	0	20	2	3	0	0	0

Explanation
NA = Not available
Number of Events = 67

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Antea Group Project No. I42705191



Appendix A

Previous Investigation and Site History Summary

PREVIOUS INVESTIGATION AND SITE HISTORY SUMMARY

October 1991 - Four soil samples were collected from the product pipe trenches at depths of approximately 3 feet below ground surface (bgs) during a dispenser island modification. The product pipe trenches were subsequently excavated to the groundwater depth at 4 to 4.5 feet bgs.

February 1992 - Three monitoring wells, MW-1 through MW-3, were installed at the site to depths ranging from 13.5 to 15 feet bgs.

August 1992 - Three additional monitoring wells, MW-4 through MW-6, were installed at the site to a depth of 13.5 feet bgs.

September 1994 - One 280-gallon waste-oil UST was removed from the site. The UST was made of steel, and no apparent holes or cracks were observed in the UST. One soil sample was collected from beneath the former UST at a depth of approximately 9 feet bgs. No petroleum hydrocarbons were reported.

January 1995 - Two additional monitoring wells, MW-9 and MW-10, were installed to depths of 13 and 15 feet bgs. In addition, monitoring wells MW-4 and MW-5 were destroyed by over-drilling the wells and backfilling with neat cement.

March 1995 - Two 10,000-gallon gasoline USTs and one 10,000-gallon diesel UST were removed from the site. Groundwater was encountered in the tank cavity at a depth of approximately 8.5 feet bgs. Soil samples contained total petroleum hydrocarbons as diesel (TPHd) and benzene, and TPH as gasoline (TPHg). Approximately 125,000 gallons of groundwater were pumped from the site for remediation and properly disposed off-site. Four fuel dispenser islands and associated product piping were also removed. Based on the results of the confirmation samples, the product dispenser islands were over excavated to approximately 6 feet bgs.

March-April 1995 - During demolition activities of the former station building, soil samples were collected from two excavations, which were subsequently over excavated. Confirmation samples contained petroleum hydrocarbons. An additional area on the south side of the former station building was excavated based on photo-ionization detector (PID) readings. Two monitoring wells, MW-1 and MW-2, were destroyed in order to allow for over excavation activities to extend to an area adjacent to the dispenser islands in the southeastern quadrant of the site. The excavated areas were subsequently backfilled with clean-engineered fill.

April 1997 - Two additional monitoring wells, MW-7 and MW-8, were installed off-site to the south and east on the neighboring property to a depth of 13 feet bgs. In addition, monitoring well MW-3, which was damaged during site renovation activities, was fully drilled out and reconstructed in the same borehole.

October 2003 - Site environmental consulting responsibilities were transferred to TRC.

April 8-9, 2005 - TRC conducted a 24-hour dual phase extraction (DPE) test at the site using monitoring well MW-6. The 24-hour DPE test was only moderately successful at removing vapor-phase petroleum hydrocarbons from the subsurface; therefore, TRC recommended DPE no longer be considered a viable remedial alternative for the site.

October 2007 - Site environmental consulting responsibilities were transferred to Delta Consultants.

December 2009 - Delta advanced two borings, B-4 and B-5, to depths of 20 feet bgs and 32 feet bgs, respectively. Analytical results from the soil and groundwater samples collected from these two borings indicated that the soil and the groundwater were impacted by petroleum hydrocarbons at these locations.

June 2010 – Delta installed two 4-inch diameter monitoring/extraction wells, MW-11 and MW-12, and two 2-inch diameter monitoring wells, MW-12A and MW-13, at the site. Analytical results from the soil and groundwater samples collected from the MW-12 and MW-12A boring locations indicated that the soil and the groundwater were impacted by petroleum hydrocarbons at these locations.

May 2011 – Antea Group (formally Delta Consultants) installed four 2-inch diameter monitoring wells, MW-14 through MW-17, and advanced one soil boring, B-6, at the site. All four monitoring wells were installed with ten feet of screen from 3 feet bgs to 13 feet bgs. Analytical results of soil samples collected during the monitoring well installation reported TPHg concentrations ranging from 1.0 milligrams per kilogram (mg/kg) (MW-14d13) to 2,490 mg/kg (B-6d9), benzene concentrations ranging from 0.67 mg/kg (B-6d21) to 26.4 mg/kg (B-6d9), toluene concentrations ranging from 0.2 mg/kg (MW-14d10) to 73.9 mg/kg (B-6d9), ethylbenzene concentrations ranging from 0.037 mg/kg (MW-14d13) to 58.1 mg/kg (B-6d9), total xylenes concentrations ranging from 0.066 mg/kg (MW-14d13) to 230 mg/kg (B-6d9), methyl tertiary-butyl ether (MTBE) concentrations ranging from 0.015 mg/kg (MW-15d13) to 0.19 mg/kg (MW-15d8), tertiary-butyl alcohol (TBA) concentrations ranging from 0.014 mg/kg (MW-16d8 and B-6d21) to 0.16 mg/kg (MW-15d8), and lead concentrations ranging from 5.5 mg/kg (MW-16d13) to 16.3 mg/kg (MW-17d9). Diesel range organics (DRO) and DRO with silica gel concentrations were reported; however, all of the results did not match the laboratory standard for diesel. Concentrations of DRO ranged from 2.9 mg/kg (MW-17d13) to 258 mg/kg (B-6d14) and DRO with silica gel concentrations ranged from 2.5 mg/kg (MW-17d13) to 250 mg/kg (B-6d14).

March 2012 – Antea Group advanced five soil borings (HPB-1 through HPB-5) at the site. The borings were advanced using direct push technology. The borings were used to obtain a hydraulic profile of the substrate beneath the site. The data obtained during the investigation will be used to determine the best path forward in terms of remediation.

SENSITIVE RECEPTORS

April 24, 2006, TRC completed a sensitive receptor survey for the site. According to the Department of Water Resources (DWR) records, three water supply wells are located within one-half mile of the site. The closest well is an irrigation well, reported to be, approximately 1,080 feet southeast of the site. In addition, two surface water bodies were observed within a one-half mile radius of the site. San Leandro Creek is located approximately 1,400 feet southwest of the site and flows into the San Leandro Bay. Elmhurst Creek is located approximately 2,220 feet north of the site and also flows into the San Leandro Bay.

Current Consultant: **Antea Group**

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Oakland, CA
Antea Group Project No. I42705191



Appendix B

Blaine Tech Services Groundwater Sampling Procedures

BLAINE TECH SERVICES, INC. METHODS AND PROCEDURES FOR THE ROUTINE MONITORING OF GROUNDWATER WELLS

SAMPLING PROCEDURES OVERVIEW

SAFETY

All groundwater monitoring assignments performed for DELTA comply with safety guidelines, 29 CFR 1910.120 and SB-198 Injury and Illness Prevention Program (IIPP). All Field Technicians receive the full 40 hour 29CFR 1910.120 OSHA SARA HAZWOPER course, medical clearance and on-the-job training prior to commencing any work on any DELTA COP/ELT site.

INSPECTION AND GAUGING

Wells are inspected prior to evacuation and sampling. The condition of the wellhead is checked and noted according to a wellhead inspection checklist.

Standard measurements include the depth to water (DTW) and the total well depth (TD) obtained with industry standard electronic sounders which are graduated in increments of hundredths of a foot.

The water in each well is inspected for the presence of Immiscibles or sheen and when free product is suspected, it is confirmed using an electronic interface probe (e.g. MMC). No samples are collected from a well containing free product.

EVACUATION

Depth to water measurements are collected by our personnel prior to purging and minimum purge volumes are calculated anew for each well based on the height of the water column and the diameter of the well. Expected purge volumes are never less than three case volumes and are set at no less than four case volumes in some jurisdictions.

Well purging devices are selected on the basis of the well diameter and the total volume to be evacuated. In most cases the well will be purged using an electric submersible pump (i.e. Grundfos) suspended near (but not touching) the bottom of the well. Small volumes of purgewater are often removed by hand bailing with a disposable bailer.

PARAMETER STABILIZATION

Well purging completion standards include minimum purge volumes, but additionally require stabilization of specific groundwater parameters prior to sample collection. Typical groundwater parameters used to measure stability are electrical conductivity, pH, and temperature. Instrument readings are obtained at regular intervals during the evacuation process (no less

than once per case volume).

Stabilization standards for routine quarterly monitoring of fuel sites include the following: Temperature is considered to have stabilized when successive readings do not fluctuate more than +/- 1 degree Celsius. Electrical conductivity is considered stable when successive readings are within 10%. pH is considered to be stable when successive readings remain constant or vary no more than 0.2 of a pH unit.

DEWATERED WELLS

Normal evacuation removes no less than three case volumes of water from the well. However, less water may be removed in cases where the well dewateres and does not recharge.

Wells known to dewater are evacuated as early as possible during each site visit in order to allow for the greatest amount of recovering. Any well that does not recharge to 80% of its original volume will be sampled prior to the departure of our personnel from the site in order to eliminate the need of a return visit.

In jurisdictions where a certain percentage of recovery is included in the local completion standard, our personnel follow the regulatory expectation.

PURGEWATER CONTAINMENT

All non-hazardous purgewater evacuated from each groundwater monitoring well is captured and contained in on-board storage tanks on the Sampling Vehicle and/or special water hauling trailers. Effluent from the decontamination of reusable apparatus (sounders, electric pumps and hoses etc.), consisting of groundwater combined with deionized water and non-phosphate soap, is also captured and pumped into effluent tanks.

Non hazardous purgewater is transported under standard Bill of Lading or Non-Hazardous manifest to a Blaine Tech Services, Inc. facility before being transported to an approved disposal facility.

SAMPLE COLLECTION DEVICES

All samples are collected using disposable bailers.

SAMPLE CONTAINERS

Sample material is decanted directly from the sampling bailer into sample containers provided by the laboratory which will analyze the samples. The type of sample container, material of construction, method of closure and filling requirements are specific to the intended analysis. Chemicals needed to preserve the sample material are commonly placed inside the sample containers by the laboratory or glassware vendor prior to delivery of the bottle to our personnel. The laboratory sets the number of replicate containers.

TRIP BLANKS

Upon request, a Trip Blank is carried to each site and is kept inside the cooler for the duration of the sampling event. It is turned over to the laboratory for analysis with the samples from that site.

DUPLICATES

Upon request, one Duplicate sample is collected at each site. It is up to the Field Technician to choose the well at which the Duplicate is collected. Typically, a duplicate is collected from one of the most contaminated wells. The Duplicate sample is labeled DUP thus rendering the sample blind.

SAMPLE STORAGE

All sample containers are promptly placed in food grade ice chests for storage in the field and transport (direct or via our facility) to the analytical laboratory that will perform the intended analytical procedures. These ice chests contain quantities of restaurant grade ice as a refrigerant material. The samples are maintained in either an ice chest or a refrigerator until relinquished into the custody of the laboratory or laboratory courier.

DOCUMENTATION CONVENTIONS

Each and every sample container has a label affixed to it. In most cases these labels are generated by our office personnel and are partially preprinted. Labels can also be hand written by our field personnel. The site is identified with the store number and site address, as is the particular groundwater well from which the sample is drawn (e.g. MW-1, MW-2, S-1 etc.). The time at which the sample was collected and the initials of the person collecting the sample are handwritten onto the label.

Chain of Custody records are created using client specific preprinted forms following USEPA specifications.

Bill of Lading records are contemporaneous records created in the field at the site where the non-hazardous purgewater is generated. Field Technicians use preprinted Bill of Lading forms.

DECONTAMINATION

All equipment is brought to the site in clean and serviceable condition and is cleaned after use in each well and before subsequent use in any other well. Equipment is decontaminated before leaving the site.

The primary decontamination device is a commercial steam cleaner. The steam cleaner is de-tuned to function as a hot pressure washer which is then operated with high quality deionized water which is produced at our facility and stored onboard our sampling vehicle. Cleaning is facilitated by the use of proprietary fixtures and devices included in the patented workstation that is incorporated in each sampling vehicle. The steam cleaner is used to decon reels, pumps

and bailers.

Any sensitive equipment or parts (i.e. Dissolved Oxygen sensor membrane, sounder etc.) that cannot be washed using the hot high pressure water, will be sprayed with a non-phosphate soap and deionized water solution and rinsed with deionized water.

EXAMPLE: The sounder is cleaned between wells using the non-phosphate soap and deionized water solution followed by deionized water rinses. The sounder is then washed with the steam cleaner between sites or as necessitated by use in a particularly contaminated well.

DISSOLVED OXYGEN READINGS

All Dissolved Oxygen readings are taken using YSI meters (e.g. YSI Model 550 meter). These meters are equipped with membrane probe that enables them to collect accurate in-situ readings.

The probe and reel is decontaminated between wells as described above. The meter is calibrated as per the instructions in the operating manual. The probe is lowered into the water column allowed to stabilize before use.

OXYIDATON REDUCTION POTENTIAL READINGS

All readings are obtained with either Corning or Myron-L meters (e.g. Corning ORP-65 or a Myron-L Ultrameter GP). The meter is cleaned between wells as described above. The meter is calibrated at the start of each day according to the instruction manual. In use the probe is placed in a cup of freshly obtained monitoring well water and allowed to stabilize.

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Oakland, CA
Antea Group Project No. I42705191



Appendix C

Blaine Tech Services Groundwater Sampling Field Data Sheets

Well-Head Inspection & Well Gauging Form

Antea Group Project No: 2705191 Site Address: 449 HEGENBERGER
 Field Technician: CORRY KILPATRICK BTS Date: 6/11/13 Weather: CLEAR
(Print Full Name & Company*)

Well Condition														
Sample Order	Field Point	Well Condition					Water in Well Box	Well Casing Dia.	Time Gauged	Depth to Water (Feet)	Depth to Bottom (Feet)	Depth to LNAPL (Feet)	LNAPL Thickness (Feet)	Comments
		Bolts	Seal	Lid Secure	Lock	Expanding Cap								
5	MW-3	G	G	G	G	G	N	2	0724	3.31	13.90			1/2 TABS STAMPED
12	MW-6	G	G	G	G	G	N	2	0754	3.86	12.60			
2	MW-7	G	G	G	G	G	N	2	0715	6.92	12.92			
1	MW-8	G	G	G	G	G	N	2	0710	3.40	14.65			
4	MW-9	G	G	G	G	G	N	2	0720	2.81	12.57			1/3 TABS BROKEN
7	MW-10	G	G	G	G	G	N	2	0734	4.20	12.57			
6	MW-11	G	G	G	G	G	N	4	0730	2.92	19.48			
11	MW-12	G	G	G	G	G	N	4	0750	4.30	19.40			
3	MW-12A	G	G	G	G	G	N	2	0716	4.53	32.50			
8	MW-13	G	G	G	G	G	N	2	0738	4.10	14.52			
13	MW-14	G	G	G	G	G	N	2	0759	4.63	12.78			
9	MW-15	G	G	G	G	G	N	2	0742	3.36	12.63			
10	MW-16	G	G	G	G	G	N	2	0745	3.19	12.60			
14	MW-17	G	G	G	G	G	N	2	0804	4.83	12.58			

Notes: _____

** All well caps opened at least 15 minutes or longer before gauging wells:
CIRCLE ONE: YES or NO**



*Form provided by Antea Group

Note: Use G=good and P=poor for well condition

Groundwater Sampling Form

Site Address: 449 HEGENBERGER, OAKLAND	
Project No: 2705191	Field Technician: ck
Field Point: MW-3	Date: 6/11/13
Depth to Water (DTW) (ft bgs): 3.31	Well Diameter (in): ② 4 6 8
Depth to LNAPL (ft bgs):	Thickness of LNAPL (ft):
Total Depth of Well (ft bgs): 13.90	Water Column Height (ft): 10.59

Purging Info and Calculations:

Purge Method: Low-Flow 3 casing volumes Other: _____	Purge Equipment: Disposable Bailer Electric Submersible Peristaltic Pump Bladder Pump Other: _____	Sample Collection Method: Disposable Bailer w/ BED Extraction Port Dedicated Tubing Disposable Tubing Other: _____
---	---	--

Water Column Height (ft): 10.59 X Conversion Factor (gal/ft): 0.17 = Casing Volume (gal): 1.8
 Casing Volume (gal): 1.8 X Specified Volumes: 3 = Calculated Purge (gal): 5.4

Conversion Factors (gal/ft): 2" = 0.17 4" = 0.66 6" = 1.5 8" = 2.6 Other = radius² * 0.163

Purge:		Start Time: <u>0934</u>		Stop Time: <u>0940</u>					
Time	Temp (°C)	pH	Conductivity (µS/cm)	ORP (mV)	Turbidity (NTU)	D.O. (mg/L)	Volume Purged (gal)	Water Level (for Low-Flow only)	
Pre-Purge									
0935	21.0	6.68	3712	-25.0	81	0.50	0.9		
0936	22.9	6.62	3294	-32.3	66	0.27	1.8		
0937	23.7	6.62	3269	-36.7	32	0.23	2.7		
0938	23.0	6.61	3303	-38.7	13	0.22	3.6		
0939	22.8	6.62	3320	-40.1	12	0.23	4.5		
0940	22.7	6.63	3331	-42.1	11	0.24	5.4		
Post-Purge									

Did Well dewater? Yes No Total Purge volume (gal): 5.4

Other Comments: 80% 5.43
DTW: 3.23 * Purge through flow cell

Sample Info:	
Sample ID: <u>MW-3-20130630</u>	Sample Date and Time: <u>6/11/13 1230</u>
Selected Analysis: <u>SEL COC</u>	

This form was provided by Antea Group and completed by: (Print Full Name) CORRY KILPATRICK, an employee of Blaine Tech Services, Inc.

Signature: [Signature] Date: 6/11/13



LNAPL = light non-aqueous phase liquids
 bgs = below ground surface
 ORP = Oxidation-Reduction Potential
 D.O. = dissolved oxygen
 gal = gallon/s
 temp = temperature
 NTU = Nephelometric Turbidity Units
 mV = millivolts

Groundwater Sampling Form

Site Address: 449 HEGENBERGER, OAKLAND	
Project No: 2705191	Field Technician: CK
Field Point: MW-6	Date: 6/11/13
Depth to Water (DTW) (ft bgs): 3.86	Well Diameter (in): 2 4 6 8
Depth to LNAPL (ft bgs):	Thickness of LNAPL (ft):
Total Depth of Well (ft bgs): 12.60	Water Column Height (ft): 8.74

Purging Info and Calculations:

Purge Method: Low-Flow 3 casing volumes Other: _____	Purge Equipment: Disposable Bailer Electric Submersible Peristaltic Pump Bladder Pump Other: _____	Sample Collection Method: Disposable Bailer w/ BED Extraction Port Dedicated Tubing Disposable Tubing Other: _____
Water Column Height (ft): 8.74 X Conversion Factor (gal/ft): 0.17 = Casing Volume (gal): 1.5 Casing Volume (gal): 1.5 X Specified Volumes: 3 = Calculated Purge (gal): 4.5		
Conversion Factors (gal/ft): 2" = 0.17 4" = 0.66 6" = 1.5 8" = 2.6 Other = radius ² * 0.163		

Purge:		Start Time: 1215		Stop Time: _____					
Time	Temp (°C)	pH	Conductivity (µS/cm)	ORP (mV)	Turbidity (NTU)	D.O. (mg/L)	Volume Purged (gal)	Water Level (for Low-Flow only)	
Pre-Purge									
1216	22.6	6.78	2531	-96.3	39	0.23	0.8		
1217	21.4	6.77	2853	-96.5	42	0.17	1.6		
1218	20.7	6.80	2863	-96.8	41	0.13	2.4		
1219	20.3	6.81	2890	-96.9	43	0.12	3.2		
			DEWATERED @ 2.5 gallons					3.5	
1420	20.2	6.84	2903	-105	123	0.78	—		
Post-Purge									
Did Well dewater?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Total Purge volume (gal): 3.5					

Other Comments: 80% S.G. *DUP = FDI-20130630 @ 1425
 DTW: 6.75 *PURGE THROUGH FLOW CELL

Sample Info:	
Sample ID: MW-6-20130630	Sample Date and Time: 6/11/13 1420
Selected Analysis: SEL COC	

This form was provided by Antea Group and completed by: (Print Full Name) COLBY KILPATRICK, an employee of Blaine Tech Services, Inc.
 Signature: _____ Date: **6/11/13**



LNAPL = light non-aqueous phase liquids
 bgs = below ground surface
 ORP = Oxidation-Reduction Potential
 D.O. = dissolved oxygen

gal = gallon/s
 temp = temperature
 NTU = Nephelometric Turbidity Units
 mV = millivolts

Groundwater Sampling Form

Site Address: 449 HEGENBERGER, OAKLAND	
Project No: 2705191	Field Technician: cu
Field Point: MW-7	Date: 6/11/13
Depth to Water (DTW) (ft bgs): 6.92	Well Diameter (in): (2) 4 6 8
Depth to LNAPL (ft bgs):	Thickness of LNAPL (ft):
Total Depth of Well (ft bgs): 12.92	Water Column Height (ft): 6.00

Purging Info and Calculations:

Purge Method: Low-Flow <u>Casing volumes</u> Other: _____	Purge Equipment: Disposable Bailer Electric Submersible Peristaltic Pump Bladder Pump Other: _____	Sample Collection Method: <u>Disposable Bailer w/ BED</u> Extraction Port Dedicated Tubing Disposable Tubing Other: _____
--	--	---

Water Column Height (ft): 6.00 X Conversion Factor (gal/ft): 0.17 = Casing Volume (gal): 1.0
 Casing Volume (gal): 1.0 X Specified Volumes: 3 = Calculated Purge (gal): 3.0

Conversion Factors (gal/ft): 2" = 0.17 4" = 0.66 6" = 1.5 8" = 2.6 Other = radius² * 0.163

Purge:		Start Time: <u>0831</u>	Stop Time: <u>0837</u>					
Time	Temp (°C)	pH	Conductivity (µS/cm)	ORP (mV)	Turbidity (NTU)	D.O. (mg/L)	Volume Purged (gal)	Water Level (for Low-Flow only)
Pre-Purge								
<u>0832</u>	<u>20.6</u>	<u>6.87</u>	<u>10439</u>	<u>57.6</u>	<u>96</u>	<u>2.75</u>	<u>0.5</u>	
<u>0833</u>	<u>22.5</u>	<u>6.64</u>	<u>3929</u>	<u>32.4</u>	<u>31</u>	<u>0.93</u>	<u>1.0</u>	
<u>0834</u>	<u>23.2</u>	<u>6.56</u>	<u>3230</u>	<u>21.0</u>	<u>3</u>	<u>0.50</u>	<u>1.5</u>	
<u>0835</u>	<u>22.9</u>	<u>6.53</u>	<u>3243</u>	<u>23.0</u>	<u>10</u>	<u>0.49</u>	<u>2.0</u>	
<u>0836</u>	<u>23.0</u>	<u>6.54</u>	<u>3250</u>	<u>23.9</u>	<u>9</u>	<u>0.49</u>	<u>2.5</u>	
<u>0837</u>	<u>23.1</u>	<u>6.55</u>	<u>3257</u>	<u>24.2</u>	<u>9</u>	<u>0.49</u>	<u>3.0</u>	
Post-Purge								

Did Well dewater? Yes No Total Purge volume (gal): 3.0

Other Comments: 80% 8.12
DTW: 7.77 * PURGE THROUGH FLOW CELL

Sample Info:
 Sample ID: MW-7-20130630 Sample Date and Time: 6/11/13 1220
 Selected Analysis: SEL COC

This form was provided by Antea Group and completed by: (Print Full Name) COREY KILPATRICK, an employee of Blaine Tech Services, Inc.

Signature: _____ Date: 6/11/13

Groundwater Sampling Form

Site Address:	449 HEGENBERGER, OAKLAND		
Project No:	2705191	Field Technician:	CR
Field Point:	MW-8	Date:	6/11/13
Depth to Water (DTW) (ft bgs):	3.40	Well Diameter (in):	(2) 4 6 8
Depth to LNAPL (ft bgs):		Thickness of LNAPL (ft):	
Total Depth of Well (ft bgs):	14.65	Water Column Height (ft):	11.25

Purging Info and Calculations:

Purge Method: Low-Flow 3 casing volumes Other: _____	Purge Equipment: Disposable Bailer Electric Submersible Peristaltic Pump Bladder Pump Other: _____	Sample Collection Method: Disposable Bailer w/ BED Extraction Port Dedicated Tubing Disposable Tubing Other: _____
Water Column Height (ft): <u>11.25</u> X Conversion Factor (gal/ft): <u>0.17</u> = Casing Volume (gal): <u>1.9</u> Casing Volume (gal): <u>1.9</u> X Specified Volumes: <u>3</u> = Calculated Purge (gal): <u>5.7</u>		
Conversion Factors (gal/ft): 2" = 0.17 4" = 0.66 6" = 1.5 8" = 2.6 Other = radius ² * 0.163		

Purge: Start Time: 0816 Stop Time: 0822

Time	Temp (°C)	pH	Conductivity (µS/cm)	ORP (mV)	Turbidity (NTU)	D.O. (mg/L)	Volume Purged (gal)	Water Level (for Low-Flow only)
Pre-Purge								
0817	20.4	6.21	11100	209.3	102	3.41	1.0	
0818	22.7	6.29	10653	180.3	76	1.36	2.0	
0819	22.4	6.34	10572	156.6	20	1.02	3.0	
0820	21.7	6.36	11103	133.2	15	0.80	4.0	
0821	21.6	6.37	11190	132.7	20	0.78	5.0	
0822	21.7	6.37	11199	131.9	18	0.77	6.0	
Post-Purge								

Did Well dewater? Yes No Total Purge volume (gal): 6.0

Other Comments: 80% 5.65
DTW: 3.50 * Purge THROUGH Flow cell

Sample Info:

Sample ID: MW-8 - 20130630	Sample Date and Time: 6/11/13 1230
Selected Analysis: SEL COC	

This form was provided by Antea Group and completed by: (Print Full Name) Corey KUPARUKA, an employee of Blaine Tech Services, Inc.

Signature: [Signature] Date: 6/11/13

Groundwater Sampling Form

Site Address: 449 HEGENBERGER, OAKLAND	
Project No: 2705191	Field Technician: Ch
Field Point: MW-9	Date: 6/11/13
Depth to Water (DTW) (ft bgs): 2.01	Well Diameter (in): (2) 4 6 8
Depth to LNAPL (ft bgs):	Thickness of LNAPL (ft):
Total Depth of Well (ft bgs): 12.57	Water Column Height (ft): 9.76

Purging Info and Calculations:

Purge Method: Low-Flow 3 casing volumes Other: _____	Purge Equipment: Disposable Bailer Electric Submersible Peristaltic Pump Bladder Pump Other: _____	Sample Collection Method: Disposable Bailer w/ BED Extraction Port Dedicated Tubing Disposable Tubing Other: _____
Water Column Height (ft): 9.76 X Conversion Factor (gal/ft): 0.17 = Casing Volume (gal): 1.7 Casing Volume (gal): 1.7 X Specified Volumes: 3 = Calculated Purge (gal): 5.1		
Conversion Factors (gal/ft): 2" = 0.17 4" = 0.66 6" = 1.5 8" = 2.6 Other = radius ² * 0.163		

Purge:		Start Time: 0920	Stop Time: 0925					
Time	Temp (°C)	pH	Conductivity (µS/cm)	ORP (mV)	Turbidity (NTU)	D.O. (mg/L)	Volume Purged (gal)	Water Level (for Low-Flow only)
Pre-Purge								
0921	22.9	6.56	1750	17.0	59	0.20	0.9	
0922	24.2	6.56	2298	8.4	20	0.33	1.0	
0923	22.8	6.56	3668	14.7	12	0.40	2.7	
0924	21.6	6.63	4744	12.2	6	0.34	3.0	
0925	21.5	6.64	4803	12.0	5	0.33	4.5	
0926	DEWATERED @ 4.6 gallons						4.6	
1240	22.3	6.60	3709	18.3	5	2.70	—	
Post-Purge								
Did Well dewater? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Total Purge volume (gal): 4.6						

Other Comments: **80% 4.76**
DTW: 2.93 *** PURGE THROUGH FLOW CELL**

Sample Info:	
Sample ID: MW-9 - 20130630	Sample Date and Time: 6/11/13 1240
Selected Analysis: SEL COC	

This form was provided by Antea Group and completed by: (Print Full Name) **CORRY KUNATZ**, an employee of Blaine Tech Services, Inc.

Signature: _____ Date: **6/11/13**

Groundwater Sampling Form

Site Address: 449 HEGENBERGER, OAKLAND	
Project No: 2705191	Field Technician: CU
Field Point: MW-10	Date: 6/11/13
Depth to Water (DTW) (ft bgs): 4.20	Well Diameter (in): (2) 4 6 8
Depth to LNAPL (ft bgs):	Thickness of LNAPL (ft):
Total Depth of Well (ft bgs): 12.57	Water Column Height (ft): 8.37

Purging Info and Calculations:

Purge Method: Low-Flow 3 casing volumes Other: _____	Purge Equipment: Disposable Bailer Electric Submersible Peristaltic Pump Bladder Pump Other: _____	Sample Collection Method: Disposable Bailer w/ BED Extraction Port Dedicated Tubing Disposable Tubing Other: _____
Water Column Height (ft): 8.37 X Conversion Factor (gal/ft): 0.17 = Casing Volume (gal): 1.4 Casing Volume (gal): 1.4 X Specified Volumes: 3 = Calculated Purge (gal): 4.2		
Conversion Factors (gal/ft): 2" = 0.17 4" = 0.66 6" = 1.5 8" = 2.6 Other = radius ² * 0.163		

Purge:		Start Time: 1018		Stop Time: 1024					
Time	Temp (°C)	pH	Conductivity (µS/cm)	ORP (mV)	Turbidity (NTU)	D.O. (mg/L)	Volume Purged (gal)	Water Level (for Low-Flow only)	
Pre-Purge									
1019	20.6	6.96	2812	-11.0	37	5.82	0.7		
1020	20.8	6.85	2534	-13.4	22	5.32	1.4		
1021	20.5	6.85	2280	-17.8	26	1.32	2.1		
1022	20.4	6.86	2140	-21.7	22	0.80	2.8		
1023	20.2	6.87	2130	-27.3	21	0.78	3.5		
1024	20.2	6.87	2123	-24.2	20	0.77	4.2		
Post-Purge									

Did Well dewater? Yes No Total Purge volume (gal): **4.2**

Other Comments: **80% 5.87**
DTW: 5.33 * Purge through flow cell

Sample Info:

Sample ID: MW-10_20130630	Sample Date and Time: 6/11/13 1030
Selected Analysis: SEL COC	

This form was provided by Antea Group and completed by: (Print Full Name) **Colleen KILYAFINER**, an employee of Blaine Tech Services, Inc.

Signature: _____ Date: **6/11/13**



LNAPL = light non-aqueous phase liquids
 bgs = below ground surface
 ORP = Oxidation-Reduction Potential
 D.O. = dissolved oxygen
 gal = gallon/s
 temp = temperature
 NTU = Nephelometric Turbidity Units
 mV = millivolts

Groundwater Sampling Form

Site Address: 449 HEGENBERGER, OAKLAND	
Project No: 2705191	Field Technician: ck
Field Point: MW-11	Date: 6/11/13
Depth to Water (DTW) (ft bgs): 2.92	Well Diameter (in): 2 6 8
Depth to LNAPL (ft bgs):	Thickness of LNAPL (ft):
Total Depth of Well (ft bgs): 19.48	Water Column Height (ft): 16.56

Purging Info and Calculations:

Purge Method: Low-Flow 3 casing volumes Other: _____	Purge Equipment: Disposable Bailer Electric Submersible Peristaltic Pump Bladder Pump Other: _____	Sample Collection Method: Disposable Bailer <u>w/ BED</u> Extraction Port Dedicated Tubing Disposable Tubing Other: _____
---	---	---

Water Column Height (ft): 16.56 X Conversion Factor (gal/ft): 0.66 = Casing Volume (gal): 10.9
 Casing Volume (gal): 10.9 X Specified Volumes: 3 = Calculated Purge (gal): 32.7

Conversion Factors (gal/ft): 2" = 0.17 4" = 0.66 6" = 1.5 8" = 2.6 Other = radius² * 0.163

Purge:		Start Time: <u>0948</u>		Stop Time: <u>1000</u>					
Time	Temp (°C)	pH	Conductivity (µS/cm)	ORP (mV)	Turbidity (NTU)	D.O. (mg/L)	Volume Purged (gal)	Water Level (for Low-Flow only)	
Pre-Purge									
<u>0950</u>	<u>20.8</u>	<u>7.37</u>	<u>1106</u>	<u>-46.3</u>	<u>15</u>	<u>0.18</u>	<u>5.5</u>		
<u>0952</u>	<u>20.9</u>	<u>7.36</u>	<u>1112</u>	<u>-49.3</u>	<u>10</u>	<u>0.14</u>	<u>11.0</u>		
<u>0954</u>	<u>21.2</u>	<u>7.34</u>	<u>1111</u>	<u>-56.9</u>	<u>9</u>	<u>0.06</u>	<u>16.5</u>		
<u>0956</u>	<u>21.2</u>	<u>7.34</u>	<u>1112</u>	<u>-57.3</u>	<u>8</u>	<u>0.06</u>	<u>22.0</u>		
<u>0958</u>	<u>21.2</u>	<u>7.34</u>	<u>1113</u>	<u>-57.7</u>	<u>8</u>	<u>0.05</u>	<u>27.5</u>		
<u>1000</u>	<u>21.1</u>	<u>7.34</u>	<u>1113</u>	<u>-57.9</u>	<u>7</u>	<u>0.05</u>	<u>33.0</u>		
Post-Purge									

Did Well dewater? Yes No Total Purge volume (gal): 33.0

Other Comments: 80% b. 23
DTW: 5.02 * PURGE THROUGH FLOW CELL

Sample Info:

Sample ID: <u>MW-11 - 20130630</u>	Sample Date and Time: <u>6/11/13 1010</u>
Selected Analysis: <u>SEL COC &</u>	

This form was provided by Antea Group and completed by: (Print Full Name) CUREY KUPARICA, an employee of Blaine Tech Services, Inc.

Signature: [Signature] Date: 6/11/13



LNAPL = light non-aqueous phase liquids
 bgs = below ground surface
 ORP = Oxidation-Reduction Potential
 D.O. = dissolved oxygen
 gal = gallon/s
 temp = temperature
 NTU = Nephelometric Turbidity Units
 mV = millivolts

Groundwater Sampling Form

Site Address: 449 HELEN BERGER, OAKLAND			
Project No: 2705191		Field Technician: cu	
Field Point: MW-12		Date: 6/11/13	
Depth to Water (DTW) (ft bgs): 4.30		Well Diameter (in): 2 (4) 6 8	
Depth to LNAPL (ft bgs):		Thickness of LNAPL (ft):	
Total Depth of Well (ft bgs): 19.40		Water Column Height (ft): 15.10	

Purging Info and Calculations:

Purge Method: Low-Flow <u>3 casing volumes</u> Other: _____	Purge Equipment: Disposable Bailer Electric Submersible Peristaltic Pump Bladder Pump Other: _____	Sample Collection Method: <u>Disposable Bailer w/ BED</u> Extraction Port Dedicated Tubing Disposable Tubing Other: _____
Water Column Height (ft): <u>15.10</u> X Conversion Factor (gal/ft): <u>0.66</u> = Casing Volume (gal): <u>10.0</u> Casing Volume (gal): <u>10.0</u> X Specified Volumes: <u>3</u> = Calculated Purge (gal): <u>30.0</u>		
Conversion Factors (gal/ft): 2" = 0.17 4" = 0.66 6" = 1.5 8" = 2.6 Other = radius ² * 0.163		

Purge:		Start Time: <u>1152</u>		Stop Time: _____					
Time	Temp (°C)	pH	Conductivity (µS/cm)	ORP (mV)	Turbidity (NTU)	D.O. (mg/L)	Volume Purged (gal)	Water Level (for Low-Flow only)	
Pre-Purge									
<u>1154</u>	<u>18.8</u>	<u>6.37</u>	<u>23216</u>	<u>-44.6</u>	<u>18</u>	<u>1.98</u>	<u>5.0</u>		
<u>1156</u>	<u>19.7</u>	<u>6.71</u>	<u>19125</u>	<u>-89.0</u>	<u>20</u>	<u>0.09</u>	<u>10.0</u>		
<u>1158</u>	<u>19.4</u>	<u>6.58</u>	<u>21393</u>	<u>-92.6</u>	<u>18</u>	<u>0.07</u>	<u>15.0</u>		
<u>1200</u>	<u>19.0</u>	<u>6.41</u>	<u>22938</u>	<u>-90.3</u>	<u>18</u>	<u>0.07</u>	<u>20.0</u>		
<u>1202</u>	<u>19.0</u>	<u>6.39</u>	<u>23028</u>	<u>-90.9</u>	<u>17</u>	<u>0.08</u>	<u>25.0</u>		
<u>1204</u>	<u>19.0</u>	<u>6.38</u>	<u>23093</u>	<u>-92.1</u>	<u>16</u>	<u>0.08</u>	<u>20.0</u>		
Post-Purge									
Did Well dewater? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Total Purge volume (gal): <u>30.0</u>							

Other Comments: 80% 7-32
DTW: 7.15 * PURGE THROUGH FLOW CELL

Sample Info:	
Sample ID: <u>MW-12-20130630</u>	Sample Date and Time: <u>6/11/13 1320</u>
Selected Analysis: <u>SEL COC</u>	

This form was provided by Antea Group and completed by: (Print Full Name) COLBY KIMMEL, an employee of Blaine Tech Services, Inc.
 Signature: _____ Date: 6/11/13



LNAPL= light non-aqueous phase liquids
 bgs = below ground surface
 ORP = Oxidation-Reduction Potential
 D.O.= dissolved oxygen

gal = gallon/s
 temp = temperature
 NTU = Nephelometric Turbidity Units
 mV = millivolts

Groundwater Sampling Form

Site Address:	449 HEGENBERGER, OAKLAND		
Project No:	2705191	Field Technician:	ck
Field Point:	MW-12A	Date:	6/11/13
Depth to Water (DTW) (ft bgs):	4.53	Well Diameter (in):	② 4 6 8
Depth to LNAPL (ft bgs):		Thickness of LNAPL (ft):	
Total Depth of Well (ft bgs):	32.50	Water Column Height (ft):	27.97

Purging Info and Calculations:

Purge Method: Low-Flow 3 casing volumes Other: _____	Purge Equipment: Disposable Bailer Electric Submersible Peristaltic Pump Bladder Pump Other: _____	Sample Collection Method: Disposable Bailer w/ BED Extraction Port Dedicated Tubing Disposable Tubing Other: _____
Water Column Height (ft): 27.97 X Conversion Factor (gal/ft): 0.17 = Casing Volume (gal): 4.8 Casing Volume (gal): 4.8 X Specified Volumes: 3 = Calculated Purge (gal): 14.4		
Conversion Factors (gal/ft): 2" = 0.17 4" = 0.66 6" = 1.5 8" = 2.6 Other = radius ² * 0.163		

Purge: Start Time: 0848 Stop Time: 0900

Time	Temp (°C)	pH	Conductivity (µS/cm)	ORP (mV)	Turbidity (NTU)	D.O. (mg/L)	Volume Purged (gal)	Water Level (for Low-Flow only)
Pre-Purge								
0850	19.3	6.89	3149	-1.6	71000	0.32	2.4	
0852	19.4	6.81	3293	-3.8	659	0.21	4.8	
0854	19.4	6.80	3284	-4.5	484	0.17	7.2	
0856	19.4	6.79	3283	-5.7	396	0.16	9.6	
0858	19.4	6.79	3278	-6.4	242	0.15	12.0	
0900	19.4	6.79	3273	-6.9	176	0.14	14.4	
Post-Purge								

Did Well dewater? Yes No Total Purge volume (gal): 14.4

Other Comments: 80% 10.12
 DTW: 4.68 * PURGE THROUGH FLOW CELL

Sample Info:

Sample ID:	MW-12A_20130630	Sample Date and Time:	6/11/13 0910
Selected Analysis:	SEE COC		

This form was provided by Antea Group and completed by: (Print Full Name) COREY KUMAR, an employee of Blaine Tech Services, Inc.

Signature: _____ Date: 6/11/13



LNAPL = light non-aqueous phase liquids
 bgs = below ground surface
 ORP = Oxidation-Reduction Potential
 D.O. = dissolved oxygen
 gal = gallon/s
 temp = temperature
 NTU = Nephelometric Turbidity Units
 mV = millivolts

Groundwater Sampling Form

Site Address: 449 HEGENBERGER, OAKLAND	
Project No: 2705191	Field Technician: CU
Field Point: MW-13	Date: 6/11/13
Depth to Water (DTW) (ft bgs): 4.10	Well Diameter (in): ② 4 6 8
Depth to LNAPL (ft bgs):	Thickness of LNAPL (ft):
Total Depth of Well (ft bgs): 14.52	Water Column Height (ft): 10.42

Purging Info and Calculations:

Purge Method: Low-Flow 3 casing volumes Other: _____	Purge Equipment: Disposable Bailer Electric Submersible Peristaltic Pump Bladder Pump Other: _____	Sample Collection Method: Disposable Bailer w/ BED Extraction Port Dedicated Tubing Disposable Tubing Other: _____
Water Column Height (ft): 10.42 X Conversion Factor (gal/ft): 0.17 = Casing Volume (gal): 1.8 Casing Volume (gal): 1.8 X Specified Volumes: 3 = Calculated Purge (gal): 5.4		
Conversion Factors (gal/ft): 2" = 0.17 4" = 0.66 6" = 1.5 8" = 2.6 Other = radius ² * 0.163		

Purge:		Start Time: 1037		Stop Time: 1043					
Time	Temp (°C)	pH	Conductivity (µS/cm)	ORP (mV)	Turbidity (NTU)	D.O. (mg/L)	Volume Purged (gal)	Water Level (for Low-Flow only)	
Pre-Purge									
1038 1039	19.4	7.50	3513	-9.1	337	5.43	0.9		
1039	20.7	7.48	2853	-18.0	106	5.27	1.0		
1040	20.3	7.43	3170	-19.7	89	3.60	2.7		
1041	19.9	7.70	3489	-20.5	80	0.93	3.6		
1042	19.8	7.40	3499	-21.6	78	0.94	4.5		
1043	19.8	7.39	3508	-21.9	73	0.95	5.4		
Post-Purge									
Did Well dewater?		Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>		Total Purge volume (gal): 5.4					

Other Comments: **80% 6.18**
DTW: 6.15 *PURGE THROUGH FLOW CELL

Sample Info:

Sample ID: MW-13_20130630	Sample Date and Time: 6/11/13 1055
Selected Analysis: SEL COC	

This form was provided by Antea Group and completed by: (Print Full Name) **LORRY KUPARAO**, an employee of Blaine Tech Services, Inc.

Signature: _____ Date: **6/11/13**



LNAPL = light non-aqueous phase liquids
 bgs = below ground surface
 ORP = Oxidation-Reduction Potential
 D.O. = dissolved oxygen

gal = gallon/s
 temp = temperature
 NTU = Nephelometric Turbidity Units
 mV = millivolts

Groundwater Sampling Form

Site Address: 449 HEGENBERGER, OAKLAND	
Project No: 2705191	Field Technician:
Field Point: MW-14	Date: 6/11/13
Depth to Water (DTW) (ft bgs): 4.63	Well Diameter (in): ② 4 6 8
Depth to LNAPL (ft bgs): —	Thickness of LNAPL (ft): —
Total Depth of Well (ft bgs): 12.78	Water Column Height (ft): 9.15

Purging Info and Calculations:

Purge Method: Low-Flow <u>3 casing volumes</u> Other: _____	Purge Equipment: Disposable Bailer Electric Submersible Peristaltic Pump Bladder Pump Other: _____	Sample Collection Method: Disposable Bailer <u>w/ BED</u> Extraction Port Dedicated Tubing Disposable Tubing Other: _____
Water Column Height (ft): 9.15	X Conversion Factor (gal/ft): 0.12	= Casing Volume (gal): 1.4
Casing Volume (gal): 1.4	X Specified Volumes: 3	= Calculated Purge (gal): 4.2
Conversion Factors (gal/ft): 2" = 0.17 4" = 0.66 6" = 1.5 8" = 2.6 Other = radius ² * 0.163		

Purge:		Start Time:		Stop Time:					
Time	Temp (°C)	pH	Conductivity (µS/cm)	ORP (mV)	Turbidity (NTU)	D.O. (mg/L)	Volume Purged (gal)	Water Level (for Low-Flow only)	
Pre-Purge									
1125	19.1	6.97	13331	-121.6	121	0.29	0.7		
1126	19.1	6.98	13292	-123.4	122	0.31	1.4		
1127	19.1	6.99	13274	-124.9	123	0.33	2.1		
1128	19.1	6.99	13269	-125.6	123	0.33	2.8		
1129	19.1	6.99	13264	-126.1	123	0.34	3.5		
1130	19.1	6.99	13262	-126.4	123	0.34	4.2		
Post-Purge									
Did Well dewater? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Total Purge volume (gal): 4.2							

Other Comments: **80% 9.020**
DTW: 8.22 ***PURGE THROUGH FLOW CELL**

Sample Info:

Sample ID: MW-14 - 20130630	Sample Date and Time: 6/11/13 @ 1330
Selected Analysis: SEL COC	

This form was provided by Antea Group and completed by: (Print Full Name) J. O'Neil, an employee of Blaine Tech Services, Inc.

Signature: _____ Date: **6/11/13**



LNAPL = light non-aqueous phase liquids
 bgs = below ground surface
 ORP = Oxidation-Reduction Potential
 D.O. = dissolved oxygen

gal = gallon/s
 temp = temperature
 NTU = Nephelometric Turbidity Units
 mV = millivolts

Groundwater Sampling Form

Site Address: 449 HEGENBERGER, OAKLAND	
Project No: 2705191	Field Technician: ch
Field Point: MW-15	Date: 6/11/13
Depth to Water (DTW) (ft bgs): 3.36	Well Diameter (in): ② 4 6 8
Depth to LNAPL (ft bgs):	Thickness of LNAPL (ft):
Total Depth of Well (ft bgs): 12.63	Water Column Height (ft): 9.27

Purging Info and Calculations:

Purge Method: Low-Flow 3 casing volumes Other: _____	Purge Equipment: Disposable Bailer Electric Submersible Peristaltic Pump Bladder Pump Other: _____	Sample Collection Method: Disposable Bailer w/ BED Extraction Port Dedicated Tubing Disposable Tubing Other: _____
Water Column Height (ft): 9.27	X Conversion Factor (gal/ft): 0.17	= Casing Volume (gal): 1.6
Casing Volume (gal): 1.6	X Specified Volumes: 3	= Calculated Purge (gal): 4.8
Conversion Factors (gal/ft): 2" = 0.17 4" = 0.66 6" = 1.5 8" = 2.6 Other = radius ² * 0.163		

Purge:		Start Time: 1104		Stop Time: _____					
Time	Temp (°C)	pH	Conductivity (µS/cm)	ORP (mV)	Turbidity (NTU)	D.O. (mg/L)	Volume Purged (gal)	Water Level (for Low-Flow only)	
Pre-Purge									
1105	20.3	6.65	1721	-48.1	73	7.33	0.8		
1106	21.2	6.49	1470	-58.9	33	4.79	1.6		
1107	21.0	6.51	1666	-55.4	46	3.32	2.4		
1108	20.5	6.54	2664	-44.1	37	2.89	3.2		
1109	20.4	6.56	2673	-48.1	35	2.86	4.0		
1110	20.4	6.57	2675	-49.2	33	2.88	4.8		
Post-Purge									

Did Well dewater? Yes No Total Purge volume (gal): **4.8**

Other Comments: **80% 5-21**
DTW: 4.98 *** PURGE THROUGH FLOW CELL**

Sample Info:

Sample ID: MW-15 - 20130630	Sample Date and Time: 6/11/13 1240
Selected Analysis: SEL COC	

This form was provided by Antea Group and completed by: (Print Full Name) **CORRY KUDARONE**, an employee of Blaine Tech Services, Inc.

Signature: _____ Date: **6/11/13**



LNAPL = light non-aqueous phase liquids
 bgs = below ground surface
 ORP = Oxidation-Reduction Potential
 D.O. = dissolved oxygen

gal = gallon/s
 temp = temperature
 NTU = Nephelometric Turbidity Units
 mV = millivolts

Groundwater Sampling Form

Site Address: 449 HEGENBERGER, OAKLAND	
Project No: 2705191	Field Technician: ca
Field Point: MW-16	Date: 6/11/13
Depth to Water (DTW) (ft bgs): 3.18	Well Diameter (in): 4 6 8
Depth to LNAPL (ft bgs):	Thickness of LNAPL (ft):
Total Depth of Well (ft bgs): 12.60	Water Column Height (ft): 9.42

Purging Info and Calculations:

Purge Method: <u>Low-Flow</u> <u>3 casing volumes</u> Other: _____	Purge Equipment: Disposable Bailer Electric Submersible Peristaltic Pump Bladder Pump Other: _____	Sample Collection Method: <u>Disposable Bailer w/ BED</u> Extraction Port Dedicated Tubing Disposable Tubing Other: _____
Water Column Height (ft): <u>9.42</u>	X Conversion Factor (gal/ft): <u>0.17</u>	= Casing Volume (gal): <u>1.6</u>
Casing Volume (gal): <u>1.6</u>	X Specified Volumes: <u>3</u>	= Calculated Purge (gal): <u>4.8</u>

Conversion Factors (gal/ft): 2" = 0.17 4" = 0.66 6" = 1.5 8" = 2.6 Other = radius² * 0.163

Purge:		Start Time: <u>1120</u>	Stop Time: _____					
Time	Temp (°C)	pH	Conductivity (µS/cm)	ORP (mV)	Turbidity (NTU)	D.O. (mg/L)	Volume Purged (gal)	Water Level (for Low-Flow only)
Pre-Purge								
<u>1121</u>	<u>23.7</u>	<u>6.89</u>	<u>2862</u>	<u>-92.7</u>	<u>136</u>	<u>6.00</u>	<u>0.8</u>	
<u>1122</u>	<u>24.8</u>	<u>6.85</u>	<u>2804</u>	<u>-93.4</u>	<u>64</u>	<u>1.86</u>	<u>1.6</u>	
<u>1123</u>	<u>24.5</u>	<u>6.86</u>	<u>2864</u>	<u>-93.3</u>	<u>45</u>	<u>1.36</u>	<u>2.4</u>	
<u>1124</u>	<u>24.1</u>	<u>6.87</u>	<u>2992</u>	<u>-93.6</u>	<u>60</u>	<u>0.32</u>	<u>3.2</u>	
<u>1125</u>	<u>24.1</u>	<u>6.88</u>	<u>2998</u>	<u>-94.3</u>	<u>63</u>	<u>0.30</u>	<u>4.0</u>	
<u>1126</u>	<u>24.0</u>	<u>6.88</u>	<u>3008</u>	<u>-94.9</u>	<u>65</u>	<u>0.29</u>	<u>4.8</u>	
Post-Purge								
Did Well dewater?	Yes	<u>(No)</u>	Total Purge volume (gal): <u>4.8</u>					

Other Comments: 80% S.O6
DTW: 5.00 *PURGE THROUGH FLOW CELL

Sample Info:

Sample ID: <u>MW-16-20130630</u>	Sample Date and Time: <u>6/11/13 1140</u>
Selected Analysis: <u>SEE COC</u>	

This form was provided by Antea Group and completed by: (Print Full Name) Coleen KILPATRICK, an employee of Blaine Tech Services, Inc.

Signature: [Signature] Date: 6/11/13

LNAPL = light non-aqueous phase liquids
 bgs = below ground surface
 ORP = Oxidation-Reduction Potential
 D.O. = dissolved oxygen

 gal = gallon/s
 temp = temperature
 NTU = Nephelometric Turbidity Units
 mV = millivolts

AnteaTM Group, 1-800-477-7411

Groundwater Sampling Form

Site Address: 449 HEGERBERGER, OAKLAND	
Project No: 2705191	Field Technician:
Field Point: MW-17	Date: 6/11/13
Depth to Water (DTW) (ft bgs): 4.03	Well Diameter (in): 2 4 6 8
Depth to LNAPL (ft bgs): —	Thickness of LNAPL (ft): —
Total Depth of Well (ft bgs): 12.58	Water Column Height (ft): 7.75

Purging Info and Calculations:

Purge Method: Low-Flow <u>3 casing volumes</u> Other: _____	Purge Equipment: Disposable Bailer Electric Submersible Peristaltic Pump Bladder Pump Other: _____	Sample Collection Method: <u>Disposable Bailer w/ BED</u> Extraction Port Dedicated Tubing Disposable Tubing Other: _____
Water Column Height (ft): 7.75	X Conversion Factor (gal/ft): 0.17	= Casing Volume (gal): 1.3
Casing Volume (gal): 1.3	X Specified Volumes: 3	= Calculated Purge (gal): 3.9

Conversion Factors (gal/ft): 2" = 0.17 4" = 0.66 6" = 1.5 8" = 2.6 Other = radius² * 0.163


Purge:		Start Time:		Stop Time:					
Time	Temp (°C)	pH	Conductivity (µS/cm)	ORP (mV)	Turbidity (NTU)	D.O. (mg/L)	Volume Purged (gal)	Water Level (for Low-Flow only)	
Pre-Purge									
1155	19.2	7.02	22981	-172.5	72	0.91	0.7		
1156	19.2	7.04	23074	-174.6	64	0.42	1.4		
1157	19.2	7.05	23109	-175.0	66	0.44	2.1		
1158	19.3	7.05	23112	-175.9	65	0.45	2.9		
1159	19.3	7.05	23117	-176.2	65	0.45	3.5		
1200	19.3	7.06	23119	-177.0	65	0.46	4.2		
Post-Purge									
Did Well dewater?		Yes	No	Total Purge volume (gal): 4.2					

Other Comments:	80% 6.38 DTW: 6.11 * PURGE THROUGH FLOW CELL		
-----------------	--	--	--

Sample Info:	
Sample ID: MW-17 - 20130630	Sample Date and Time: 6/11/13 @ 1400
Selected Analysis: SEL COC	

This form was provided by Antea Group and completed by: (Print Full Name) S. MITE, an employee of Blaine Tech Services, Inc.

Signature: _____ Date: **6/11/13**


LNAPL = light non-aqueous phase liquids
gal = gallon/s
bgs = below ground surface
temp = temperature
ORP = Oxidation-Reduction Potential
NTU = Nephelometric Turbidity Units
D.O. = dissolved oxygen
mV = millivolts



COP ELT CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed and accurate.



Page: 1 of 2
Cooler # _____ of _____

2Q13 GW Event

Required Lab Information:			Required Project Information:			Required Invoice Information:					
Lab Name: Kiff Analytical			Site ID #: 2705191		Task: WG_Q_201306	Send Invoice to: Sandy Hayes					
Address: 2795 Second Street, #300			AnteaGrp proj#:		Address: 11050 White Rock Road, Suite 110		Turn around time (days): 10				
Davis, CA 95818			Site Address: 449 Hegenberger		City/State: Rancho Cordova CA 95670		Phone #: 916-638-2085		QC level Required: Standard	Special	Mark one
Lab PM: Scott Forbes			City: Oakland		State: CA 94621		Reimbursement project?		Non-reimbursement project? Y		Mark one
Phone/Fax: P: 530-297-4800 F: 530-297-4808			AG PM Name: Dennis Dettloff		Send EDD to: AGDataView.US@anteagroup.com		MA MCP Cert?		CT RCP Cert?		Mark One
Lab PM email: SForbes@kiffanalytical.com			Phone/Fax: P: 916-503-1261 F: 916-638-8385		CC Hardcopy report to:		Lab Project ID (lab use):				
Applicable Lab Quote #:			AG PM Email: dennis.dettloff@anteagroup.com		CC Hardcopy report to:		Requested Analyses				

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Samples IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX DRINKING WATER WP GROUND WATER WO WASTE WATER WW FRESH PRODUCT LF SOIL SO OIL OIL WASTE AMBENT AIR AA WASTE AIR AE SOIL GAS GS	MATRIX WATER W SURFACE WATER WS WATER OC WO SLUDGE SL RISEGATE RW OTHER OT ANIMAL TISSUE TA	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	SAMPLE DATE	SAMPLE TIME	# OF CONTAINERS	FIELD FILTERED? (Y/N)	Preservatives										Comments/Lab Sample I.D.								
										Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Requested Analyses										
																		8015TPH/Dioxin/W/Sludges	8280 GC/MS G/CO		8280 GC/MS G/CO	8280 GC/MS G/CO	8280 GC/MS G/CO	8280 GC/MS G/CO	8280 GC/MS G/CO	8280 GC/MS G/CO	8280 GC/MS G/CO	8280 GC/MS G/CO
1	MW-10_20130630	WG		WG		6/11/13	1030	5	2					X					X	X	X	X						
2	MW-11_20130630	WG		WG			1010	5	2					X					X	X	X	X						
3	MW-12_20130630	WG		WG			1320	5	2					X					X	X	X	X						
4	MW-12A_20130630	WG		WG			0910	5	2					X					X	X	X	X						
5	MW-13_20130630	WG		WG			1055	5	2					X					X	X	X	X						
6	MW-14_20130630	WG		WG			1330	5	2					X					X	X	X	X						
7	MW-15_20130630	WG		WG			1240	5	2					X					X	X	X	X						
8	MW-16_20130630	WG		WG			1140	5	2					X					X	X	X	X						
9	MW-17_20130630	WG		WG			1400	5	2					X					X	X	X	X						
10	MW-3_20130630	WG		WG			1230	5	2					X					X	X	X	X						
11	MW-6_20130630	WG		WG			1420	5	2					X					X	X	X	X						
12	MW-7_20130630	WG		WG			1220	5	2					X					X	X	X	X						

<p>T0600101476</p>	RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	Sample Receipt Conditions				
	C/L 1/BS		6/11/13	1520						Y/N	Y/N	Y/N	Y/N
										Y/N	Y/N	Y/N	Y/N
										Y/N	Y/N	Y/N	Y/N
										Y/N	Y/N	Y/N	Y/N
SHIPPING METHOD (mark as appropriate)					SAMPLER NAME AND SIGNATURE								
UPS COURIER FEDEX			PRINT Name of SAMPLER:		Cory Kiff / Jost OR-12								
US MAIL			SIGNATURE of SAMPLER:		DATE Signed		Time:		6/11/13 1430				





COP ELT CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed and accurate.

2Q13 GW Event

Required Lab Information:		Required Project Information:			Required Invoice Information:		
Lab Name:	Kiff Analytical	Site ID #:	2705191	Task:	WG_Q_201306	Send Invoice to:	Sandy Hayes
Address:	2795 Second Street, #300	AnteaGrp proj#:		Address:	11050 White Rock Road, Suite 110	Turn around time (days)	10
Davis, CA	95618	Site Address:	449 Hegenberger	City/State:	Rancho Cordova CA 95670	Phone #:	916-638-2085
Lab PM:	Scott Forbes	City:	Oakland	State:	CA 94621	Reimbursement project?	
Phone/Fax:	P: 530-297-4800 F: 530-297-4808	AG PM Name:	Dennis Dettloff	Send EDD to:	AGDataView.US@anteagroup.com	MA MCP Cert?	
Lab PM email:	SForbes@kiffanalytical.com	Phone/Fax:	P: 916-503-1261 F: 916-638-8385	CC Hardcopy report to:		CT RCP Cert?	
Applicable Lab Quote #:		AG PM Email:	dennis.dettloff@anteagroup.com	CC Hardcopy report to:		Lab Project ID (lab use)	

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / . -) Samples IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX DRINKING WATER WP WATER W GROUND WATER WD SURFACE WATER WS WASTE WATER WW WATER OC WO SL FREE PRODUCT LF SLUDGE LF WH SOIL SO RINSEATE OT OIL OL OTHER OT WPE OW ANIMAL TISSUE TA AMBIENT AIR AA SVE AIR AE SOIL GAS CS	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	SAMPLE DATE	SAMPLE TIME	#OF CONTAINERS	FIELD FILTERED? (Y/N)	Preservatives										Requested Analyses	Comments/Lab Sample I.D.				
									Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other	8015TPH/Dipaseal	B260			GC/MS GRO	B2600/Hex/Meta/TBA	B2601/Methanol	
1	MW-8_20130630		WG		6/11/13	1230	5	2										X	X	X	X			
2	MW-9_20130630		WG		↓	1240	5	2										X	X	X	X			
3	FD1_20130630		W		↓	1425	5	2										X	X	X	X			
4																								
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								

Additional Comments/Special Instructions: T0600101476	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	Sample Receipt Conditions				
	<i>CJR / B75</i>	6/11/13	1520				Y/N	Y/N	Y/N	Y/N	
							Y/N	Y/N	Y/N	Y/N	
							Y/N	Y/N	Y/N	Y/N	
SHIPPING METHOD: (mark as appropriate)				SAMPLER NAME AND SIGNATURE				Temp in °C	Samples on ice?	Sample intact?	Trip Blank?
UPS COURIER FEDEX		PRINT Name of SAMPLER:		<i>Coley Kiff / JOR 06/12</i>							
US MAIL		SIGNATURE of SAMPLER:		DATE Signed		Time:					



Quarterly Summary Report, Second Quarter 2013
76 Station No. 5191/5043
Oakland, CA
Antea Group Project No. I42705191



Appendix D

Certified Laboratory Analytical Report and Data Validation Form

Is the Data Set Valid?

(circle)

Yes / No

Preservation Temperature

(if known): 3.0 °C

Antea™ Group Laboratory Data Validation Sheet

Project/Client: 76 Station No. 5191 / COP-ELT

Project #: I42705191

Date of Validation: 6/28/13 **Date of Analysis:** 6/14/13 - 6/19/13

Sample Date: 6/11/13 **Completed By:** ETW

Signature: [Signature]

Circle
or
Highlight

Yes / No

(below)

Analytical Lab Used and Report # (if any): Kiff # 85121

1. Were the analyses the ones requested?
2. Do the sample number(s) on the chain-of-custody (COC) match the one(s) that appear on the laboratory data sheet?
3. Were samples prepared (extracted, filtered, etc.) within EPA holding times?
4. Once prepared/extracted, were the samples analyzed within the EPA holding times?
5. Were Laboratory blanks performed, if so, were they non-detect?
6. Are the units correct? (i.e., soil samples in mg/kg or ug/g, water samples mg/L, ug/L, and air samples in volume mg/m³, etc.)
7. Were appropriate Matrix Spike (MS) and Matrix Spike Duplicate (MSD) samples included in the laboratory batch sample?
8. In lieu of MS/ MSD, were surrogate spike (SS) or surrogate spike duplicate (SSD) samples included in the laboratory batch samples?
9. Were MS/ MSD (or SS/SSD) within the acceptable range of % recovery (i.e., approximately 80-120%, depending on the analyte)?
10. Were MS/MSD (or SS/SSD) values used to calculate Relative Percent Difference (RPD)?
11. Were Relative Percent Difference values within the acceptable range (i.e. ±25%)?

Yes / No
Yes / No
Yes / No
Yes / No
Yes / No
Yes / No
Yes / No
Yes / No
Yes / No
Yes / No
Yes / No
Yes / No

Lab to correct error.

If any answer is no, explain why and what corrective action was taken (use additional sheet(s), as necessary):

2. Sample ID is MW-12A_2013630, in Lab report it is listed as MW-12A_201363 in the table, ID is correct on the well specific page (page 9) of the lab report. Kiff to correct the error and re-submit the page (page 9).

Qualifiers: Ethanol MRL increased in MW-10
 TRA may be biased slightly high in MW-12
 Surrogate Recovery for MW-17, MW-6, & FD1 for EPA 8015 was outside control limits.

Laboratory Results

Dennis Dettloff
Antea Group
11050 White Rock Rd. Suite 110
Rancho Cordova, CA 95670

Subject : 15 Water Samples
Project Name : 2705191
Project Number :

Dear Mr. Dettloff,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed. Testing procedures comply with the 2003 NELAC and TNI 2009 standards. Laboratory results relate only to the samples tested. This report may be freely reproduced in full, but may only be reproduced in part with the express permission of Kiff Analytical, LLC. Kiff Analytical, LLC is certified by the State of California under the National Environmental Laboratory Accreditation Program (NELAP), lab # 08263CA. If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,



Troy Turpen

Subject : 15 Water Samples
Project Name : 2705191
Project Number :

Case Narrative

The Method Reporting Limit for Ethanol has been increased due to the presence of an interfering compound for sample MW-10_20130630.

Tert-Butanol results for sample MW-12_20130630 may be biased slightly high and are flagged with a 'J'. A fraction of MtBE (typically less than 30%) converts to Tert-Butanol during the analysis of water samples. We consider this conversion effect to be mathematically significant in samples that contain MtBE/Tert-Butanol in ratios of over 3:1.

Surrogate Recovery for sample MW-17_20130630, MW-6_20130630, and FD1_20130630 for test method Mod. EPA 8015 was outside of control limits. This may indicate a bias in the analysis due to the sample's matrix or an interference from compounds present in the sample.



Report Number : 85121

Date : 06/20/13

Analysis Summary

Attention : Dennis Dettloff
 Antea Group
 11050 White Rock Rd. Suite 110
 Rancho Cordova, CA 95670

Project Name :2705191

Project Number :

Sample Name			MW-10_20130630		MW-11_20130630		MW-12_20130630		MW-12A_20130630		MW-13_20130630		MW-14_20130630		MW-15_20130630	
Sample Date			06/11/13		06/11/13		06/11/13		06/11/13		06/11/13		06/11/13		06/11/13	
Analyte	Method	Units	MRL	Results	MRL	Results	MRL	Results	MRL	Results	MRL	Results	MRL	Results	MRL	Results
Benzene	EPA 8260B	ug/L	0.50	ND	0.50	ND	1.5	51	0.50	ND	0.50	ND	1.5	630	0.50	ND
Ethylbenzene	EPA 8260B	ug/L	0.50	ND	0.50	ND	1.5	4.3	0.50	ND	0.50	ND	1.5	480	0.50	ND
Toluene	EPA 8260B	ug/L	0.50	ND	0.50	ND	1.5	ND	0.50	ND	0.50	ND	1.5	5.3	0.50	ND
Total Xylenes	EPA 8260B	ug/L	0.50	ND	0.50	ND	1.5	6.4	0.50	ND	0.50	ND	1.5	680	0.50	ND
Ethanol	EPA 8260B	ug/L	8.0	ND	5.0	ND	15	ND	5.0	ND	5.0	ND	15	ND	5.0	ND
Methyl-t-butyl ether (MTBE)	EPA 8260B	ug/L	0.50	ND	0.50	32	1.5	840	0.50	0.78	0.50	97	1.5	ND	0.50	73
Tert-Butanol	EPA 8260B	ug/L	5.0	ND	5.0	ND	7.0	19 J	5.0	ND	5.0	31	7.0	24	5.0	31
TPH as Gasoline	EPA 8260B	ug/L	50	ND	50	ND	150	290	50	ND	50	ND	150	6900	50	ND
1,2-Dichloroethane-d4 (Surr)	EPA 8260B	%		101		105		100		101		102		98.4		107
Toluene - d8 (Surr)	EPA 8260B	%		99.6		101		100		99.7		99.8		92.3		102
TPH as Diesel (Silica Gel)	M EPA 8015	ug/L	50	ND	50	ND	50	62	50	ND	50	ND	50	ND	50	ND
Octacosane (Silica Gel Surr)	M EPA 8015	%		102		103		122		99.4		99.5		104		102

MRL = Method Reporting Limit

ND = Not Detected



Report Number : 85121

Date : 06/20/13

Analysis Summary

Attention : Dennis Dettloff
 Antea Group
 11050 White Rock Rd. Suite 110
 Rancho Cordova, CA 95670

Project Name :2705191

Project Number :

Sample Name			MW-16_20130630		MW-17_20130630		MW-3_20130630		MW-6_20130630		MW-7_20130630		MW-8_20130630		MW-9_20130630	
Sample Date			06/11/13		06/11/13		06/11/13		06/11/13		06/11/13		06/11/13		06/11/13	
Analyte	Method	Units	MRL	Results	MRL	Results	MRL	Results	MRL	Results	MRL	Results	MRL	Results	MRL	Results
Benzene	EPA 8260B	ug/L	1.5	ND	25	10000	0.50	ND	4.0	1800	0.50	ND	0.50	ND	0.50	ND
Ethylbenzene	EPA 8260B	ug/L	1.5	ND	25	3100	0.50	ND	4.0	2000	0.50	ND	0.50	ND	0.50	ND
Toluene	EPA 8260B	ug/L	1.5	ND	25	11000	0.50	ND	4.0	250	0.50	ND	0.50	ND	0.50	ND
Total Xylenes	EPA 8260B	ug/L	1.5	ND	25	12000	0.50	ND	15	9400	0.50	ND	0.50	ND	0.50	ND
Ethanol	EPA 8260B	ug/L	15	ND	250	ND	5.0	ND	40	ND	5.0	ND	5.0	ND	5.0	ND
Methyl-t-butyl ether (MTBE)	EPA 8260B	ug/L	1.5	820	25	ND	0.50	44	4.0	13	0.50	ND	0.50	ND	0.50	4.2
Tert-Butanol	EPA 8260B	ug/L	7.0	70	150	ND	5.0	97	20	230	5.0	7.0	5.0	ND	5.0	ND
TPH as Gasoline	EPA 8260B	ug/L	150	ND	2500	110000	50	190	1500	87000	50	ND	50	ND	50	ND
1,2-Dichloroethane-d4 (Surr)	EPA 8260B	%		101		103		103		102		98.9		98.9		102
Toluene - d8 (Surr)	EPA 8260B	%		99.3		100		100		102		94.7		94.0		99.7
TPH as Diesel (Silica Gel)	M EPA 8015	ug/L	50	ND	50	710	50	ND	50	2400	50	96	50	ND	50	ND
Octacosane (Silica Gel Surr)	M EPA 8015	%		97.6		142		99.5		176		122		110		109

MRL = Method Reporting Limit

ND = Not Detected



Analysis Summary

Report Number : 85121

Date : 06/20/13

Attention : Dennis Dettloff
 Antea Group
 11050 White Rock Rd. Suite 110
 Rancho Cordova, CA 95670

Project Name :2705191

Project Number :

Sample Name		FD1_20130630		
Sample Date		06/11/13		
Analyte	Method	Units	MRL	Results
Benzene	EPA 8260B	ug/L	5.0	1600
Ethylbenzene	EPA 8260B	ug/L	5.0	1800
Toluene	EPA 8260B	ug/L	5.0	200
Total Xylenes	EPA 8260B	ug/L	70	8100
Ethanol	EPA 8260B	ug/L	50	ND
Methyl-t-butyl ether (MTBE)	EPA 8260B	ug/L	5.0	15
Tert-Butanol	EPA 8260B	ug/L	25	210
TPH as Gasoline	EPA 8260B	ug/L	7000	62000
1,2-Dichloroethane-d4 (Surr)	EPA 8260B	%		105
Toluene - d8 (Surr)	EPA 8260B	%		102
TPH as Diesel (Silica Gel)	M EPA 8015	ug/L	50	2800
Octacosane (Silica Gel Surr)	M EPA 8015	%		143

MRL = Method Reporting Limit

ND = Not Detected

Project Name : **2705191**

Project Number :

Sample : **MW-10_20130630**

Matrix : Water

Lab Number : 85121-01

Sample Date :06/11/13

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	06/14/13 21:33
Toluene	< 0.50	0.50	ug/L	EPA 8260B	06/14/13 21:33
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	06/14/13 21:33
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	06/14/13 21:33
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	06/14/13 21:33
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	06/14/13 21:33
Ethanol	< 8.0	8.0	ug/L	EPA 8260B	06/14/13 21:33
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	06/14/13 21:33
1,2-Dichloroethane-d4 (Surr)	101		% Recovery	EPA 8260B	06/14/13 21:33
Toluene - d8 (Surr)	99.6		% Recovery	EPA 8260B	06/14/13 21:33
TPH as Diesel (Silica Gel)	< 50	50	ug/L	M EPA 8015	06/18/13 11:22
Octacosane (Silica Gel Surr)	102		% Recovery	M EPA 8015	06/18/13 11:22

Project Name : **2705191**

Project Number :

Sample : **MW-11_20130630**

Matrix : Water

Lab Number : 85121-02

Sample Date :06/11/13

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	06/15/13 00:04
Toluene	< 0.50	0.50	ug/L	EPA 8260B	06/15/13 00:04
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	06/15/13 00:04
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	06/15/13 00:04
Methyl-t-butyl ether (MTBE)	32	0.50	ug/L	EPA 8260B	06/15/13 00:04
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	06/15/13 00:04
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	06/15/13 00:04
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	06/15/13 00:04
1,2-Dichloroethane-d4 (Surr)	105		% Recovery	EPA 8260B	06/15/13 00:04
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	06/15/13 00:04
TPH as Diesel (Silica Gel)	< 50	50	ug/L	M EPA 8015	06/18/13 11:51
Octacosane (Silica Gel Surr)	103		% Recovery	M EPA 8015	06/18/13 11:51

Project Name : **2705191**

Project Number :

Sample : **MW-12_20130630**

Matrix : Water

Lab Number : 85121-03

Sample Date :06/11/13

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	51	1.5	ug/L	EPA 8260B	06/19/13 02:10
Toluene	< 1.5	1.5	ug/L	EPA 8260B	06/19/13 02:10
Ethylbenzene	4.3	1.5	ug/L	EPA 8260B	06/19/13 02:10
Total Xylenes	6.4	1.5	ug/L	EPA 8260B	06/19/13 02:10
Methyl-t-butyl ether (MTBE)	840	1.5	ug/L	EPA 8260B	06/19/13 02:10
Tert-Butanol	19 J	7.0	ug/L	EPA 8260B	06/15/13 00:43
Ethanol	< 15	15	ug/L	EPA 8260B	06/19/13 02:10
TPH as Gasoline	290	150	ug/L	EPA 8260B	06/19/13 02:10
1,2-Dichloroethane-d4 (Surr)	100		% Recovery	EPA 8260B	06/19/13 02:10
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	06/19/13 02:10
TPH as Diesel (Silica Gel)	62	50	ug/L	M EPA 8015	06/18/13 12:20
(Note: Discrete peaks in Diesel range, atypical for Diesel Fuel.)					
Octacosane (Silica Gel Surr)	122		% Recovery	M EPA 8015	06/18/13 12:20

Project Name : **2705191**

Project Number :

Sample : **MW-12A_20130630**

Matrix : Water

Lab Number : 85121-04

Sample Date :06/11/13

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	06/17/13 13:00
Toluene	< 0.50	0.50	ug/L	EPA 8260B	06/17/13 13:00
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	06/17/13 13:00
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	06/17/13 13:00
Methyl-t-butyl ether (MTBE)	0.78	0.50	ug/L	EPA 8260B	06/17/13 13:00
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	06/17/13 13:00
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	06/17/13 13:00
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	06/17/13 13:00
1,2-Dichloroethane-d4 (Surr)	101		% Recovery	EPA 8260B	06/17/13 13:00
Toluene - d8 (Surr)	99.7		% Recovery	EPA 8260B	06/17/13 13:00
TPH as Diesel (Silica Gel)	< 50	50	ug/L	M EPA 8015	06/18/13 12:50
Octacosane (Silica Gel Surr)	99.4		% Recovery	M EPA 8015	06/18/13 12:50

Project Name : **2705191**

Project Number :

Sample : **MW-13_20130630**

Matrix : Water

Lab Number : 85121-05

Sample Date :06/11/13

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	06/17/13 13:32
Toluene	< 0.50	0.50	ug/L	EPA 8260B	06/17/13 13:32
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	06/17/13 13:32
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	06/17/13 13:32
Methyl-t-butyl ether (MTBE)	97	0.50	ug/L	EPA 8260B	06/17/13 13:32
Tert-Butanol	31	5.0	ug/L	EPA 8260B	06/17/13 13:32
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	06/17/13 13:32
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	06/17/13 13:32
1,2-Dichloroethane-d4 (Surr)	102		% Recovery	EPA 8260B	06/17/13 13:32
Toluene - d8 (Surr)	99.8		% Recovery	EPA 8260B	06/17/13 13:32
TPH as Diesel (Silica Gel)	< 50	50	ug/L	M EPA 8015	06/18/13 14:47
Octacosane (Silica Gel Surr)	99.5		% Recovery	M EPA 8015	06/18/13 14:47

Project Name : **2705191**

Project Number :

Sample : **MW-14_20130630**

Matrix : Water

Lab Number : 85121-06

Sample Date :06/11/13

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	630	1.5	ug/L	EPA 8260B	06/19/13 02:31
Toluene	5.3	1.5	ug/L	EPA 8260B	06/19/13 02:31
Ethylbenzene	480	1.5	ug/L	EPA 8260B	06/19/13 02:31
Total Xylenes	680	1.5	ug/L	EPA 8260B	06/19/13 02:31
Methyl-t-butyl ether (MTBE)	< 1.5	1.5	ug/L	EPA 8260B	06/19/13 02:31
Tert-Butanol	24	7.0	ug/L	EPA 8260B	06/19/13 02:31
Ethanol	< 15	15	ug/L	EPA 8260B	06/19/13 02:31
TPH as Gasoline	6900	150	ug/L	EPA 8260B	06/19/13 02:31
1,2-Dichloroethane-d4 (Surr)	98.4		% Recovery	EPA 8260B	06/19/13 02:31
Toluene - d8 (Surr)	92.3		% Recovery	EPA 8260B	06/19/13 02:31
TPH as Diesel (Silica Gel)	< 50	50	ug/L	M EPA 8015	06/18/13 15:16
Octacosane (Silica Gel Surr)	104		% Recovery	M EPA 8015	06/18/13 15:16

Project Name : **2705191**

Project Number :

Sample : **MW-15_20130630**

Matrix : Water

Lab Number : 85121-07

Sample Date :06/11/13

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	06/15/13 03:11
Toluene	< 0.50	0.50	ug/L	EPA 8260B	06/15/13 03:11
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	06/15/13 03:11
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	06/15/13 03:11
Methyl-t-butyl ether (MTBE)	73	0.50	ug/L	EPA 8260B	06/15/13 03:11
Tert-Butanol	31	5.0	ug/L	EPA 8260B	06/15/13 03:11
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	06/15/13 03:11
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	06/15/13 03:11
1,2-Dichloroethane-d4 (Surr)	107		% Recovery	EPA 8260B	06/15/13 03:11
Toluene - d8 (Surr)	102		% Recovery	EPA 8260B	06/15/13 03:11
TPH as Diesel (Silica Gel)	< 50	50	ug/L	M EPA 8015	06/18/13 15:46
Octacosane (Silica Gel Surr)	102		% Recovery	M EPA 8015	06/18/13 15:46

Project Name : **2705191**

Project Number :

Sample : **MW-16_20130630**

Matrix : Water

Lab Number : 85121-08

Sample Date :06/11/13

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 1.5	1.5	ug/L	EPA 8260B	06/17/13 16:13
Toluene	< 1.5	1.5	ug/L	EPA 8260B	06/17/13 16:13
Ethylbenzene	< 1.5	1.5	ug/L	EPA 8260B	06/17/13 16:13
Total Xylenes	< 1.5	1.5	ug/L	EPA 8260B	06/17/13 16:13
Methyl-t-butyl ether (MTBE)	820	1.5	ug/L	EPA 8260B	06/17/13 16:13
Tert-Butanol	70	7.0	ug/L	EPA 8260B	06/17/13 16:13
Ethanol	< 15	15	ug/L	EPA 8260B	06/17/13 16:13
TPH as Gasoline	< 150	150	ug/L	EPA 8260B	06/17/13 16:13
1,2-Dichloroethane-d4 (Surr)	101		% Recovery	EPA 8260B	06/17/13 16:13
Toluene - d8 (Surr)	99.3		% Recovery	EPA 8260B	06/17/13 16:13
TPH as Diesel (Silica Gel)	< 50	50	ug/L	M EPA 8015	06/18/13 16:15
Octacosane (Silica Gel Surr)	97.6		% Recovery	M EPA 8015	06/18/13 16:15

Project Name : **2705191**

Project Number :

Sample : **MW-17_20130630**

Matrix : Water

Lab Number : 85121-09

Sample Date :06/11/13

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	10000	25	ug/L	EPA 8260B	06/15/13 04:59
Toluene	11000	25	ug/L	EPA 8260B	06/15/13 04:59
Ethylbenzene	3100	25	ug/L	EPA 8260B	06/15/13 04:59
Total Xylenes	12000	25	ug/L	EPA 8260B	06/15/13 04:59
Methyl-t-butyl ether (MTBE)	< 25	25	ug/L	EPA 8260B	06/15/13 04:59
Tert-Butanol	< 150	150	ug/L	EPA 8260B	06/15/13 04:59
Ethanol	< 250	250	ug/L	EPA 8260B	06/15/13 04:59
TPH as Gasoline	110000	2500	ug/L	EPA 8260B	06/15/13 04:59
1,2-Dichloroethane-d4 (Surr)	103		% Recovery	EPA 8260B	06/15/13 04:59
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	06/15/13 04:59
TPH as Diesel (Silica Gel)	710	50	ug/L	M EPA 8015	06/18/13 20:42
(Note: Some hydrocarbons lower-boiling, some higher-boiling than Diesel.)					
Octacosane (Silica Gel Surr)	142		% Recovery	M EPA 8015	06/18/13 20:42

Project Name : **2705191**

Project Number :

Sample : **MW-3_20130630**

Matrix : Water

Lab Number : 85121-10

Sample Date :06/11/13

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	06/17/13 11:28
Toluene	< 0.50	0.50	ug/L	EPA 8260B	06/17/13 11:28
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	06/17/13 11:28
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	06/17/13 11:28
Methyl-t-butyl ether (MTBE)	44	0.50	ug/L	EPA 8260B	06/17/13 11:28
Tert-Butanol	97	5.0	ug/L	EPA 8260B	06/17/13 11:28
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	06/17/13 11:28
TPH as Gasoline	190	50	ug/L	EPA 8260B	06/17/13 11:28
1,2-Dichloroethane-d4 (Surr)	103		% Recovery	EPA 8260B	06/17/13 11:28
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	06/17/13 11:28
TPH as Diesel (Silica Gel)	< 50	50	ug/L	M EPA 8015	06/18/13 16:44
Octacosane (Silica Gel Surr)	99.5		% Recovery	M EPA 8015	06/18/13 16:44

Project Name : **2705191**

Project Number :

Sample : **MW-6_20130630**

Matrix : Water

Lab Number : 85121-11

Sample Date :06/11/13

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	1800	4.0	ug/L	EPA 8260B	06/17/13 12:02
Toluene	250	4.0	ug/L	EPA 8260B	06/17/13 12:02
Ethylbenzene	2000	4.0	ug/L	EPA 8260B	06/17/13 12:02
Total Xylenes	9400	15	ug/L	EPA 8260B	06/19/13 03:47
Methyl-t-butyl ether (MTBE)	13	4.0	ug/L	EPA 8260B	06/17/13 12:02
Tert-Butanol	230	20	ug/L	EPA 8260B	06/17/13 12:02
Ethanol	< 40	40	ug/L	EPA 8260B	06/17/13 12:02
TPH as Gasoline	87000	1500	ug/L	EPA 8260B	06/19/13 03:47
1,2-Dichloroethane-d4 (Surr)	102		% Recovery	EPA 8260B	06/17/13 12:02
Toluene - d8 (Surr)	102		% Recovery	EPA 8260B	06/17/13 12:02
TPH as Diesel (Silica Gel)	2400	50	ug/L	M EPA 8015	06/18/13 15:16
(Note: Some hydrocarbons lower-boiling, some higher-boiling than Diesel.)					
Octacosane (Silica Gel Surr)	176		% Recovery	M EPA 8015	06/18/13 15:16

Project Name : **2705191**

Project Number :

Sample : **MW-7_20130630**

Matrix : Water

Lab Number : 85121-12

Sample Date :06/11/13

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	06/18/13 21:16
Toluene	< 0.50	0.50	ug/L	EPA 8260B	06/18/13 21:16
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	06/18/13 21:16
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	06/18/13 21:16
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	06/18/13 21:16
Tert-Butanol	7.0	5.0	ug/L	EPA 8260B	06/18/13 21:16
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	06/18/13 21:16
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	06/18/13 21:16
1,2-Dichloroethane-d4 (Surr)	98.9		% Recovery	EPA 8260B	06/18/13 21:16
Toluene - d8 (Surr)	94.7		% Recovery	EPA 8260B	06/18/13 21:16
TPH as Diesel (Silica Gel) (Note: Hydrocarbons are higher-boiling than typical Diesel Fuel.)	96	50	ug/L	M EPA 8015	06/18/13 15:51
Octacosane (Silica Gel Surr)	122		% Recovery	M EPA 8015	06/18/13 15:51

Project Name : **2705191**

Project Number :

Sample : **MW-8_20130630**

Matrix : Water

Lab Number : 85121-13

Sample Date :06/11/13

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	06/18/13 23:22
Toluene	< 0.50	0.50	ug/L	EPA 8260B	06/18/13 23:22
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	06/18/13 23:22
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	06/18/13 23:22
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	06/18/13 23:22
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	06/18/13 23:22
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	06/18/13 23:22
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	06/18/13 23:22
1,2-Dichloroethane-d4 (Surr)	98.9		% Recovery	EPA 8260B	06/18/13 23:22
Toluene - d8 (Surr)	94.0		% Recovery	EPA 8260B	06/18/13 23:22
TPH as Diesel (Silica Gel)	< 50	50	ug/L	M EPA 8015	06/18/13 16:38
Octacosane (Silica Gel Surr)	110		% Recovery	M EPA 8015	06/18/13 16:38

Project Name : **2705191**

Project Number :

Sample : **MW-9_20130630**

Matrix : Water

Lab Number : 85121-14

Sample Date :06/11/13

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	06/17/13 13:50
Toluene	< 0.50	0.50	ug/L	EPA 8260B	06/17/13 13:50
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	06/17/13 13:50
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	06/17/13 13:50
Methyl-t-butyl ether (MTBE)	4.2	0.50	ug/L	EPA 8260B	06/17/13 13:50
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	06/17/13 13:50
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	06/17/13 13:50
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	06/17/13 13:50
1,2-Dichloroethane-d4 (Surr)	102		% Recovery	EPA 8260B	06/17/13 13:50
Toluene - d8 (Surr)	99.7		% Recovery	EPA 8260B	06/17/13 13:50
TPH as Diesel (Silica Gel)	< 50	50	ug/L	M EPA 8015	06/18/13 17:14
Octacosane (Silica Gel Surr)	109		% Recovery	M EPA 8015	06/18/13 17:14

Project Name : **2705191**

Project Number :

Sample : **FD1_20130630**

Matrix : Water

Lab Number : 85121-15

Sample Date :06/11/13

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	1600	5.0	ug/L	EPA 8260B	06/15/13 04:24
Toluene	200	5.0	ug/L	EPA 8260B	06/15/13 04:24
Ethylbenzene	1800	5.0	ug/L	EPA 8260B	06/15/13 04:24
Total Xylenes	8100	70	ug/L	EPA 8260B	06/19/13 06:12
Methyl-t-butyl ether (MTBE)	15	5.0	ug/L	EPA 8260B	06/15/13 04:24
Tert-Butanol	210	25	ug/L	EPA 8260B	06/15/13 04:24
Ethanol	< 50	50	ug/L	EPA 8260B	06/15/13 04:24
TPH as Gasoline	62000	7000	ug/L	EPA 8260B	06/19/13 06:12
1,2-Dichloroethane-d4 (Surr)	105		% Recovery	EPA 8260B	06/15/13 04:24
Toluene - d8 (Surr)	102		% Recovery	EPA 8260B	06/15/13 04:24
TPH as Diesel (Silica Gel)	2800	50	ug/L	M EPA 8015	06/18/13 17:48
(Note: Some hydrocarbons lower-boiling, some higher-boiling than Diesel.)					
Octacosane (Silica Gel Surr)	143		% Recovery	M EPA 8015	06/18/13 17:48

QC Report : Method Blank Data

Project Name : **2705191**

Project Number :

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Diesel (Silica Gel)	< 50	50	ug/L	M EPA 8015	06/18/13
Octacosane (Silica Gel Surr)	101		%	M EPA 8015	06/18/13
Benzene	< 0.50	0.50	ug/L	EPA 8260B	06/14/13
Toluene	< 0.50	0.50	ug/L	EPA 8260B	06/14/13
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	06/14/13
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	06/14/13
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	06/14/13
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	06/14/13
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	06/14/13
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	06/14/13
1,2-Dichloroethane-d4 (Surr)	101		%	EPA 8260B	06/14/13
Toluene - d8 (Surr)	99.4		%	EPA 8260B	06/14/13
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	06/19/13
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	06/19/13
Benzene	< 0.50	0.50	ug/L	EPA 8260B	06/18/13
Toluene	< 0.50	0.50	ug/L	EPA 8260B	06/18/13
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	06/18/13
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	06/18/13
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	06/18/13
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	06/18/13
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	06/18/13
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	06/18/13
1,2-Dichloroethane-d4 (Surr)	98.5		%	EPA 8260B	06/18/13
Toluene - d8 (Surr)	94.0		%	EPA 8260B	06/18/13

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	06/17/13
Toluene	< 0.50	0.50	ug/L	EPA 8260B	06/17/13
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	06/17/13
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	06/17/13
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	06/17/13
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	06/17/13
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	06/17/13
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	06/17/13
1,2-Dichloroethane-d4 (Surr)	102		%	EPA 8260B	06/17/13
Toluene - d8 (Surr)	99.5		%	EPA 8260B	06/17/13
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	06/18/13
Benzene	< 0.50	0.50	ug/L	EPA 8260B	06/18/13
Toluene	< 0.50	0.50	ug/L	EPA 8260B	06/18/13
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	06/18/13
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	06/18/13
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	06/18/13
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	06/18/13
1,2-Dichloroethane-d4 (Surr)	101		%	EPA 8260B	06/18/13
Toluene - d8 (Surr)	100		%	EPA 8260B	06/18/13

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : 2705191

Project Number :

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
TPH-D (Si Gel)	BLANK	<50	1000	1000	903	919	ug/L	M EPA 8015	6/18/13	90.3	91.9	1.74	70-130	25
Benzene	85121-01	<0.50	39.8	39.9	38.3	38.8	ug/L	EPA 8260B	6/14/13	96.0	97.2	1.25	70.0-130	25
Ethanol	85121-01	7.2	100	101	123	109	ug/L	EPA 8260B	6/14/13	116	101	13.0	55.0-150	25
Ethylbenzene	85121-01	<0.50	39.8	39.9	38.5	39.8	ug/L	EPA 8260B	6/14/13	96.6	99.6	3.12	70.0-130	25
Methyl-t-butyl ether	85121-01	<0.50	39.3	39.3	36.3	36.1	ug/L	EPA 8260B	6/14/13	92.5	91.7	0.823	70.0-130	25
P + M Xylene	85121-01	<0.50	39.8	39.9	37.3	38.6	ug/L	EPA 8260B	6/14/13	93.6	96.8	3.35	70.0-130	25
Tert-Butanol	85121-01	<5.0	200	200	193	195	ug/L	EPA 8260B	6/14/13	96.8	97.2	0.491	70.0-130	25
Toluene	85121-01	<0.50	39.8	39.9	38.3	38.9	ug/L	EPA 8260B	6/14/13	96.2	97.5	1.40	70.0-130	25
P + M Xylene	85144-06	<0.50	39.6	39.8	37.2	37.0	ug/L	EPA 8260B	6/19/13	93.8	93.1	0.795	70.0-130	25

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : 2705191

Project Number :

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Benzene	85121-12	<0.50	40.0	40.0	36.3	35.9	ug/L	EPA 8260B	6/18/13	90.7	89.8	0.998	70.0-130	25
Ethanol	85121-12	<5.0	101	101	84.4	80.5	ug/L	EPA 8260B	6/18/13	83.6	79.8	4.67	55.0-150	25
Ethylbenzene	85121-12	<0.50	40.0	40.0	39.1	38.5	ug/L	EPA 8260B	6/18/13	97.6	96.2	1.47	70.0-130	25
Methyl-t-butyl ether	85121-12	<0.50	39.4	39.4	40.4	40.3	ug/L	EPA 8260B	6/18/13	102	102	0.388	70.0-130	25
P + M Xylene	85121-12	<0.50	40.0	40.0	38.7	38.2	ug/L	EPA 8260B	6/18/13	96.7	95.6	1.16	70.0-130	25
Tert-Butanol	85121-12	7.0	201	201	194	192	ug/L	EPA 8260B	6/18/13	93.0	92.0	1.03	70.0-130	25
Toluene	85121-12	<0.50	40.0	40.0	35.5	35.0	ug/L	EPA 8260B	6/18/13	88.8	87.6	1.44	70.0-130	25
Benzene	85138-03	<0.50	40.0	40.0	39.8	39.3	ug/L	EPA 8260B	6/17/13	99.6	98.2	1.47	70.0-130	25
Ethanol	85138-03	<5.0	101	101	79.9	91.1	ug/L	EPA 8260B	6/17/13	79.2	90.3	13.1	55.0-150	25

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : 2705191

Project Number :

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Ethylbenzene	85138-03	<0.50	40.0	40.0	41.0	40.6	ug/L	EPA 8260B	6/17/13	102	101	0.990	70.0-130	25
Methyl-t-butyl ether	85138-03	<0.50	39.4	39.4	40.2	40.0	ug/L	EPA 8260B	6/17/13	102	102	0.534	70.0-130	25
P + M Xylene	85138-03	<0.50	40.0	40.0	40.8	40.3	ug/L	EPA 8260B	6/17/13	102	101	1.19	70.0-130	25
Tert-Butanol	85138-03	9.9	201	201	206	204	ug/L	EPA 8260B	6/17/13	97.7	96.7	1.07	70.0-130	25
Toluene	85138-03	<0.50	40.0	40.0	40.4	39.8	ug/L	EPA 8260B	6/17/13	101	99.5	1.37	70.0-130	25
P + M Xylene	85158-06	<0.50	40.0	40.0	39.8	39.8	ug/L	EPA 8260B	6/18/13	99.5	99.6	0.167	70.0-130	25
Benzene	85158-06	<0.50	40.0	40.0	39.3	39.4	ug/L	EPA 8260B	6/18/13	98.3	98.4	0.0832	70.0-130	25
Ethanol	85158-06	<5.0	101	101	97.8	95.5	ug/L	EPA 8260B	6/18/13	97.0	94.6	2.44	55.0-150	25
Ethylbenzene	85158-06	<0.50	40.0	40.0	40.9	40.8	ug/L	EPA 8260B	6/18/13	102	102	0.301	70.0-130	25

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : **2705191**

Project Number :

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Methyl-t-butyl ether	85158-06	<0.50	39.4	39.4	37.5	37.8	ug/L	EPA 8260B	6/18/13	95.2	95.9	0.735	70.0-130	25
Toluene	85158-06	<0.50	40.0	40.0	40.3	40.2	ug/L	EPA 8260B	6/18/13	101	100	0.229	70.0-130	25

QC Report : Laboratory Control Sample (LCS)

Project Name : **2705191**

Project Number :

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	40.0	ug/L	EPA 8260B	6/14/13	96.0	70.0-130
Ethanol	101	ug/L	EPA 8260B	6/14/13	122	55.0-150
Ethylbenzene	40.0	ug/L	EPA 8260B	6/14/13	99.7	70.0-130
Methyl-t-butyl ether	39.4	ug/L	EPA 8260B	6/14/13	90.7	70.0-130
P + M Xylene	40.0	ug/L	EPA 8260B	6/14/13	96.5	70.0-130
Tert-Butanol	201	ug/L	EPA 8260B	6/14/13	96.3	70.0-130
Toluene	40.0	ug/L	EPA 8260B	6/14/13	96.2	70.0-130
P + M Xylene	40.0	ug/L	EPA 8260B	6/19/13	96.7	70.0-130
Benzene	39.8	ug/L	EPA 8260B	6/18/13	93.4	70.0-130
Ethanol	100	ug/L	EPA 8260B	6/18/13	99.1	55.0-150
Ethylbenzene	39.8	ug/L	EPA 8260B	6/18/13	100	70.0-130
Methyl-t-butyl ether	39.2	ug/L	EPA 8260B	6/18/13	97.6	70.0-130
P + M Xylene	39.8	ug/L	EPA 8260B	6/18/13	98.5	70.0-130
TPH as Gasoline	494	ug/L	EPA 8260B	6/18/13	83.5	70.0-130
Tert-Butanol	200	ug/L	EPA 8260B	6/18/13	98.0	70.0-130
Toluene	39.8	ug/L	EPA 8260B	6/18/13	91.4	70.0-130
Benzene	40.2	ug/L	EPA 8260B	6/17/13	99.1	70.0-130
Ethanol	101	ug/L	EPA 8260B	6/17/13	97.9	55.0-150
Ethylbenzene	40.2	ug/L	EPA 8260B	6/17/13	103	70.0-130

QC Report : Laboratory Control Sample (LCS)Project Name : **2705191**

Project Number :

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Methyl-t-butyl ether	39.6	ug/L	EPA 8260B	6/17/13	103	70.0-130
P + M Xylene	40.2	ug/L	EPA 8260B	6/17/13	102	70.0-130
TPH as Gasoline	497	ug/L	EPA 8260B	6/17/13	90.1	70.0-130
Tert-Butanol	202	ug/L	EPA 8260B	6/17/13	98.0	70.0-130
Toluene	40.2	ug/L	EPA 8260B	6/17/13	99.8	70.0-130
P + M Xylene	40.2	ug/L	EPA 8260B	6/18/13	100	70.0-130
TPH as Gasoline	492	ug/L	EPA 8260B	6/18/13	87.0	70.0-130
Benzene	40.2	ug/L	EPA 8260B	6/18/13	98.0	70.0-130
Ethanol	101	ug/L	EPA 8260B	6/18/13	94.5	55.0-150
Ethylbenzene	40.2	ug/L	EPA 8260B	6/18/13	102	70.0-130
Methyl-t-butyl ether	39.6	ug/L	EPA 8260B	6/18/13	95.1	70.0-130
Toluene	40.2	ug/L	EPA 8260B	6/18/13	101	70.0-130

SAMPLE RECEIPT CHECKLIST

SRG #: 85121	TAT: <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush <input type="checkbox"/> Split <input type="checkbox"/> None			
Sample Receipt	Initials/Date: TJB 061313	Storage Time: 1837	Sample Login	Initials/Date: TJB 061413
Method of Receipt: <input checked="" type="checkbox"/> Courier <input type="checkbox"/> Over-the-counter <input type="checkbox"/> Shipped		Shipping Custody Seals <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Intact <input type="checkbox"/> Broken		
Temp °C 3.0 <input type="checkbox"/> N/A	Therm ID 12-1	Time 1820	Coolant present <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Water	<input type="checkbox"/> Temp Excursion

Chain-of-Custody:	Yes	No
Is COC present?	X	
Is COC signed by relinquisher?	X	
Is COC dated by relinquisher?	X	
Is the sampler's name on the COC?	X	
Are there analyses or hold for all samples?	X	

Documented on	COC	Labels	Discrepancies:
Sample ID	X	X	
Project ID	X	X	
Sample Date	X	X	
Sample Time	X	X	
Does COC match project history?			<input type="checkbox"/> N/A <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Samples:	N/A	Yes	No
Are sample custody seals intact?	X		
Are sample containers intact?		X	
Is preservation documented?		X	
In-house Analysis:	N/A	Yes	No
Are preservatives acceptable?		X	
Are samples within holding time?		X	
Are sample container types correct?		X	
Is there adequate sample volume?		X	

Comments: Silica gel is only requested on page 1 of 2.
All analyses were logged in per project history. TJB
061413 0923

Receipt Details:		
Matrix	Container Type	# of Containers
WA	VOA	75

CS Required:

Proceed With Analysis: YES NO Init/Date: SAUF 6/14/13
 Client Communication: All samples to be run w/ SE.