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By Alameda County Environmental Health 3:25 pm, Nov 29, 2016

November 28, 2016

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

Subject: **3Q16 Quarterly Summary Report**

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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United Pacific
17311 S. Main Street
Gardena, CA 90248
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Sincerely,

United Pacific

WALTER SPRAGUE
Director of Retail Services

Attachment

Quarterly Summary Report, Third Quarter 2016

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

Alameda County Health Care Services
Agency Fuel Leak Case No. RO0000219

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

GeoTracker Global ID No.T0600101476

Antea Group Project No. I42705191

November 28, 2016

Prepared for:
Mr. Keith Nowell
Alameda County Health Care Services Agency
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Quarterly Summary Report, Third Quarter 2016

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

1.0 INTRODUCTION

Antea®Group is submitting this *Quarterly Summary Report, Third Quarter 2016*, for the referenced site in Oakland, California (**Figure 1**). The subject site is an operating 76-branded Service Station located on the southwestern corner of Hegenberger Road and Edgewater Drive in Oakland, California. Station facilities include three underground storage tanks (USTs), two dispenser islands, a station building, and a carwash. A total of six groundwater monitoring wells are located at the site (**Figure 2**). Well construction details are included in **Table 1**. Please refer to **Appendix A** for additional site information and for the history of environmental investigations and remediation activities.

This report summarizes the data obtained from the recent groundwater monitoring and sampling event conducted on September 19, 2016. Included herein are site figures, summary groundwater data tables, and a discussion of trends. This report has received a technical review by Mr. Jeffrey Friedman, California Professional Geologist No. 5677.

1.2 Work Performed [Third Quarter 2016]

1. Antea Group submitted the *Quarterly Summary Report, Second Quarter 2016*, dated August 15, 2016 to the Alameda County Health Care Services Agency (ACHCSA).
2. Antea Group conducted the third quarter 2016 groundwater monitoring and sampling event on September 19, 2016.
3. Antea Group conducted the on-site soil excavation activities from May 2 to August 5, 2016.

1.2 Work Proposed [Fourth Quarter 2016]

1. Antea Group will submit the *Quarterly Summary Report, Third Quarter 2016* (contained herein) to the ACHCSA.
2. The *Excavation Completion Report* will be submitted to ACHCSA.
3. Antea Group will conduct the fourth quarter 2016 groundwater monitoring and sampling event.
4. Antea Group will submit a request for Low-Threat Closure.

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-9, MW-11, MW-13, MW-15, and MW-16
Monitoring well sampling schedule:	Quarterly: MW-11, MW-13, MW-15, and MW-16 Semi-Annual (second and fourth quarters): MW-3 and MW-9,
Total number of monitoring wells (**Table 1**):	Six (MW-3, MW-9, MW-11, MW-13, MW-15, and MW-16)
Range of well depths (total depth below ground surface, bgs) (**Table 1**):	13 feet to 20 feet bgs
Wells with historical measurable LNAPL (light non-aqueous phase liquid):	Former monitoring wells MW-1, MW-2, and 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	Soil excavation

2.1 Regulatory Correspondence

On September 9, 2016, Antea Group sent an email to the ACHCSA, about the excavation report and the purpose of the upcoming meeting. The ACHCSA responded that the meeting will concern the effects of remedial activities and known distribution of potential contaminants of concern to the proposed station remodel.

Correspondence is included in **Appendix B**.

2.2 Site Remediation Activities

On-site soil excavation began on May 2, 2016. The excavation work, which removed 1665 tons of soil, was completed on August 5, 2016. Antea Group is currently writing the Excavation Completion Report and will submit it is the ACHCSA.

2.3 Groundwater Monitoring

During the third quarter 2016 groundwater monitoring and sampling event, six monitoring wells were gauged, purged and sampled by Blaine Tech Services, Inc. per standard sampling protocol. 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, 3c, and 3d**.

Well gauging and sampling date:	September 19, 2016
Wells gauged:	MW-3, MW-9, MW-11, MW-13, MW-15, and MW-16
Wells sampled:	MW-3, MW-9, MW-11, MW-13, MW-15, and MW-16
Purge method:	3 well casing volumes via electric, submersible pump
Sample collection method:	Disposable bailers
Groundwater parameters measured (**Appendix 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: 2.28 (MW-9) Max: 4.12 (MW-13)
Current groundwater elevation range (ft):	Min: 6.96 (MW-13) Max: 8.66 (MW-9)
Change in water depths from previous event (average change for all gauged wells):	0.39 ft decrease
Groundwater flow direction and gradient in foot per foot (ft/ft):	Variable (0.043 ft/ft southwest and 0.011 ft/ft southeast)

2.3.1 Groundwater Flow Gradient and Directional Trends

The third quarter 2016 groundwater monitoring and sampling event was performed by Blaine Tech on September 19, 2016. The average groundwater elevation increased approximately 0.4 feet compared to the June 2016 event. Depth to groundwater in the site monitoring wells ranged from approximately 2.28 feet (MW-9) to 4.12 feet (MW-13) BTOC during the current event. The September 19, 2016 groundwater elevation contour map is shown on **Figure 3**. Groundwater flow direction and gradient were interpreted to be variable (**Table 4**).

2.3.2 Groundwater Quality Data

Groundwater samples collected during the third quarter 2016 monitoring and sampling event were submitted with chain-of-custody (COC) documentation to Eurofins Calscience, Inc. (Calscience), a state of California Environmental Laboratory Accreditation Program (ELAP) certified laboratory (Certification No. 2944). The complete analytical report and Antea Group's laboratory data validation checklist are presented as **Appendix D**. Groundwater samples were analyzed for the following:

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

Groundwater analytical results are presented in **Table 2** (current) and **Tables 3, 3a, 3b, 3c, and 3d** (historical). The following ranges of contaminant concentrations were reported in the specified site wells, groundwater samples collected on September 19, 2016. Only the contaminants reported above the laboratory minimum detection limits 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)
TPHd	3 of 6	93 (MW-3)	490 (MW-16)
Benzene	0 of 6	<0.50 (MW-3, MW-9, MW-11, MW-13, MW-15, MW-16)	<0.50 (MW-3, MW-9, MW-11, MW-13, MW-15, MW-16)
TPHg	1 of 6	400 (MW-3)	400 (MW-3)
MTBE	5 of 6	5.7 (MW-13)	47 (MW-15)
TBA	4 of 6	30 (MW-13)	87 (MW-16)

Explanations:
µg/L = Micrograms per liter LRL = Laboratory reporting limit

2.3.3 Groundwater Contaminant Trends

Graphs showing changes in TPHd, TPHg, benzene, and MTBE concentrations (as applicable per well) and changes in depth to water over time for wells MW-3, MW-9, MW-11, MW-13, MW-15, and MW-16 are included as **Appendix E**. Concentrations of TPHd were detected above the LRLs in MW-11 and MW-16 during first quarter 2016, after being below the LRLs since at least 2013 (**Table 3**). Concentrations increased again in these wells during second quarter 2016 and increased in wells MW-9 and MW-13. During the third quarter 2016, concentrations of TPHd dropped to below LRLs in monitoring wells MW-9 and MW-13, while concentrations of TPHd decreased by more than half in monitoring well MW-11 and concentrations of TPHd increased in monitoring wells MW-3 and MW-16. The laboratory noted that exhibited chromatograph patterns inconsistent with the standard TPHd pattern, suggesting the results may not be representative of diesel. With the exception of the spikes in TPHd, concentrations of the constituents of concern appear relatively stable to decreasing (**Appendix E**). However, overall, TPHd, TPHg, benzene and MTBE concentrations have been decreasing at the monitoring well locations. A dissolved phase concentration map for TPHg, benzene, and MTBE is presented on **Figures 4** and historical groundwater flow directions are shown on **Figure 5**. Note that were not concentrations of benzene or MTBE above the Low-Threat Closure levels.

2.3.4 Waste Disposal Summary

Blaine Tech transported wastewater generated from purging/sampling and equipment cleaning to their bulk facility in San Jose, California. A waste manifest for this event is currently unavailable as of the date of this report. A copy of the final waste manifest will be submitted upon receipt.

2.3.5 Quality Assurance / Quality Control

Antea Group's QA/QC measures included a detailed QA/QC data validation check of the Calscience laboratory analytical results for the September 2016 sampling event. Antea Group's laboratory data validation checklist and the Calscience laboratory report are presented as **Appendix D**.

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

* HD - The chromatographic pattern was inconsistent with the profile of the reference fuel standard (noted on the TPHd results for monitoring wells MW-3, MW-9, MW-11, MW-13, and MW-16)
3 - Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control. (Noted on Benzene)

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.

4.0 DISCUSSION

Petroleum hydrocarbon impacts to the groundwater has historically been limited to the vicinities of former monitoring wells MW-6 and MW-14 in the southwest corner of the site downgradient of the source areas and former monitoring wells MW-12 and MW-17 on the east side of the site near the dispenser islands. Groundwater elevations beneath the site have ranged historically from approximately 2.77 to 9.70 feet BTOC, with an approximate 0.4 feet increase in elevation between the June and September 2016 monitoring events.

The excavation activities during the second and third quarters 2016 removed the majority of the petroleum hydrocarbon impact to the soil. Regenesis brand Oxygen Release Compound® (ORC-A®) was added to the excavation backfill to remediate the remaining COCs estimated in groundwater.

During the recent monitoring event, MTBE was reported in five of the six of the monitoring wells, and benzene was below LRLs in all of the monitoring wells. None of the reported concentrations exceeded the California Low-Threat Closure Policy thresholds of 1,000 ug/l MTBE and 3,000 ug/l benzene. **Figure 4** shows concentrations reported for TPHg, benzene, and MTBE.

5.0 CONCLUSIONS

The petroleum hydrocarbon impacts monitored and reported during the third quarter 2016, are consistent with historical data. Concentrations of constituents of concern at the site has been well defined in the soil and groundwater. Targeted areas of petroleum hydrocarbon impact based on historical soil and groundwater data, underwent excavation between May 2016 and August 2016, removing secondary source impacts to the extent practicable.

6.0 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:

Jonathan Fillingame
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:

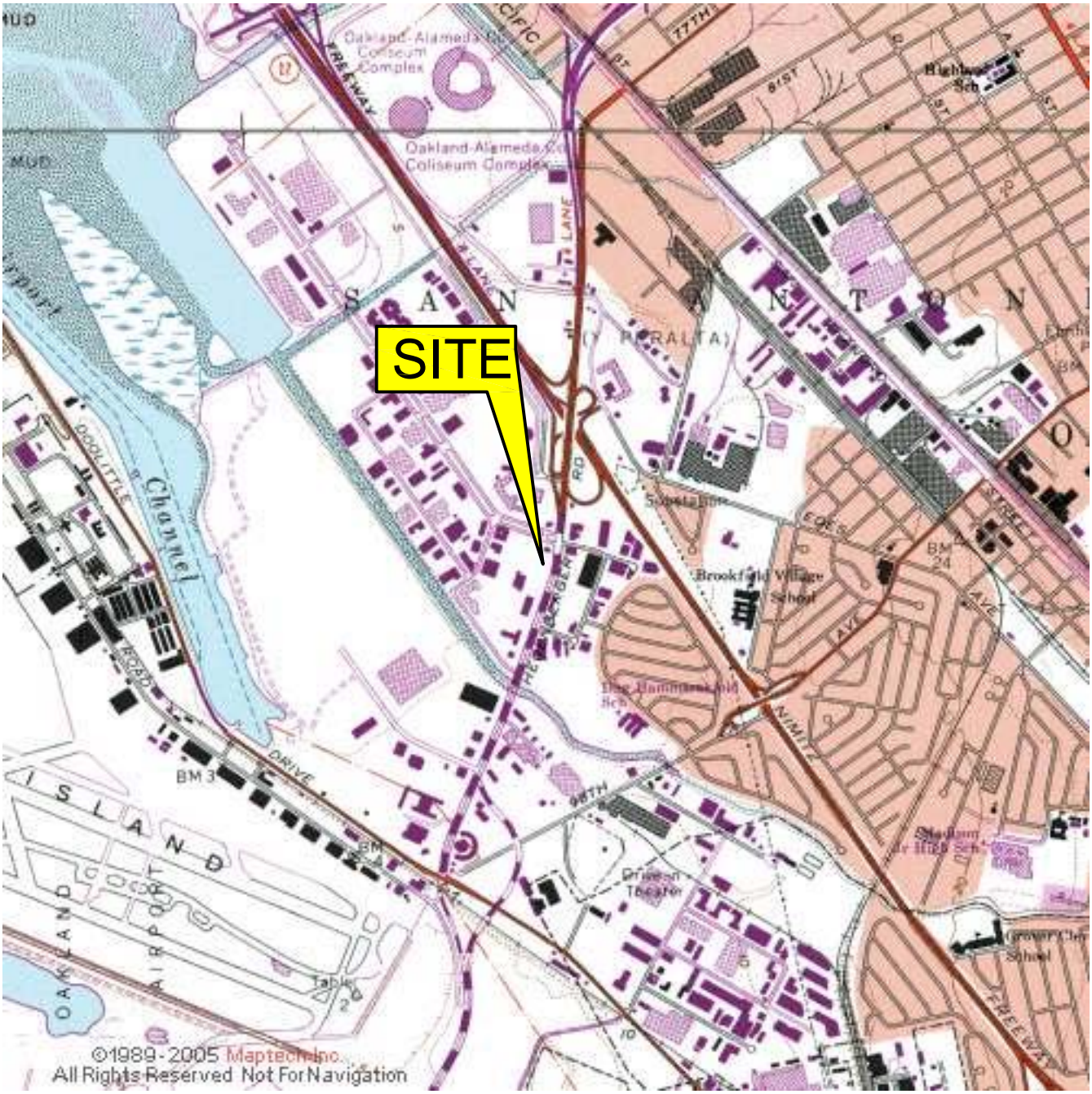
PROFESSIONAL GEOLOGIST
JEFFREY A. FRIEDMAN
No. 5677
STATE OF CALIFORNIA

Date: November 28, 2016

Jeffrey Friedman, PG
Senior Project Manager
California Registered Professional Geologist No. 5677
Antea Group

cc: GeoTracker (upload)

Figures



North

0 900 1800 FT

SCALE

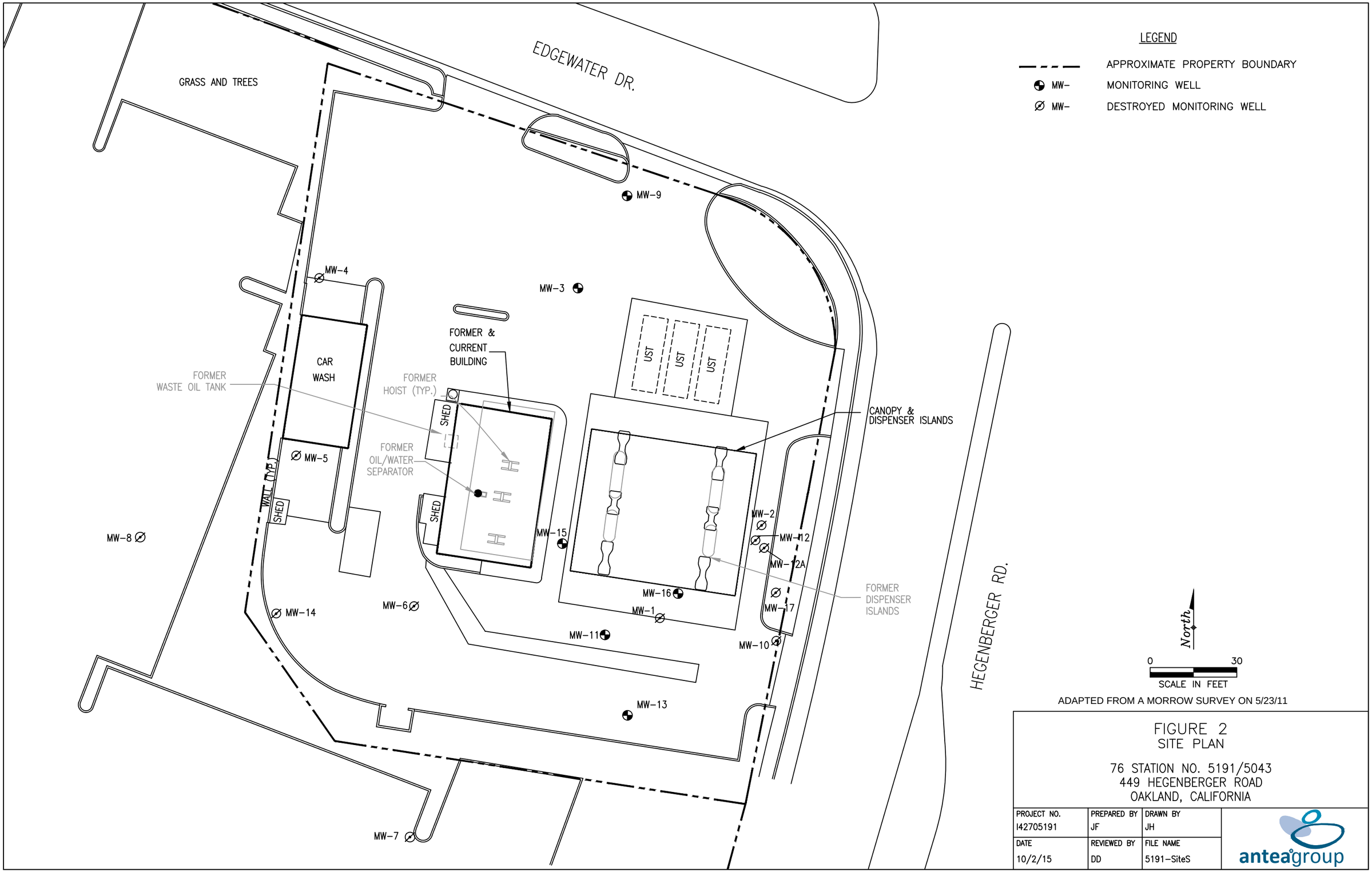
SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC MAP, OAKLAND EAST QUADRANGLE (1973)

FIGURE 1
SITE LOCATION MAP

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

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

antea group



ADAPTED FROM A MORROW SURVEY ON 5/23/11

FIGURE 2
SITE PLAN

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

PROJECT NO.	PREPARED BY	DRAWN BY
142705191	JF	JH
DATE	REVIEWED BY	FILE NAME
10/2/15	DD	5191-SiteS

antea group

EDGEWATER DR.

GRASS AND TREES

MW-9
(8.66')

80

MW-4

MW-3
(7.60')

FORMER &
CURRENT
BUILDING

CAR
WASH

FORMER
WASTE OIL TANK

FORMER
HOIST (TYP.)

0.043 ft/ft

UST

UST

UST

CANOPY &
DISPENSER ISLANDS

SHED

FORMER
OIL/WATER
SEPARATOR

MW-5

WALL (TYP.)

SHED

SHED

(7.61')
MW-15

MW-2

MW-12

MW-12A

MW-8

MW-16

(7.79')
MW-1

FORMER
DISPENSER
ISLANDS

MW-17

MW-14

MW-6

(7.69')
MW-11

MW-10

FENCE

0.011 ft/ft

7.0

MW-13
(6.96')

MW-7

HEGENBERGER RD.

LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- MW- MONITORING WELL
- MW- DESTROYED MONITORING WELL
- (7.60') GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL (ft/msl)
- 7.0' GROUNDWATER CONTOUR LINE (ft/msl) –DASHED WHERE INFERRED
- 0.043 ft/ft GROUNDWATER FLOW DIRECTION WITH HYDRAULIC GRADIENT

North

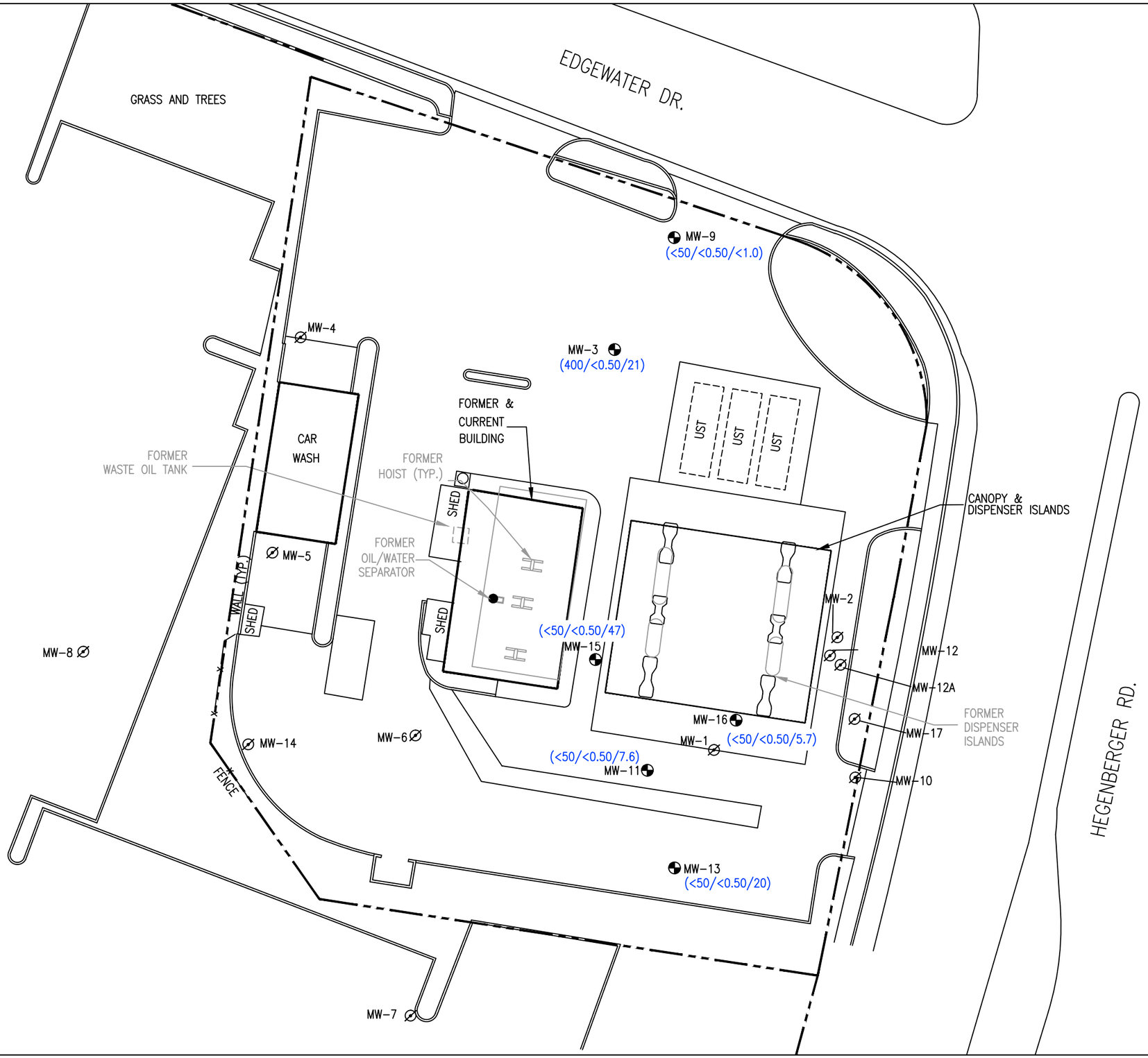
0 30

SCALE IN FEET

FIGURE 3
GROUNDWATER ELEVATION CONTOUR MAP
SEPTEMBER 19, 2016
76 STATION NO. 5191/5043
449 HEGENBERGER ROAD
OAKLAND, CALIFORNIA

PROJECT NO.	PREPARED BY	DRAWN BY
142705191	JF	JH
DATE	REVIEWED BY	FILE NAME
10/20/16	BP	5191-SiteS

antea group



LEGEND

— — —	APPROXIMATE PROPERTY BOUNDARY
MW–	MONITORING WELL
MW–	DESTROYED MONITORING WELL
(<50/<0.50/47)	(TPHg / BENZENE / MTBE) (µg/L)

NOTES:

TPHg = TOTAL PETROLEUM HYDROCARBONS
MTBE = METHYL TERTIARY BUTYL ETHER
µg/L = MICROGRAMS PER LITER
<50 = LESS THAN LABORATORY INDICATED REPORTING LIMITS

North

0 30

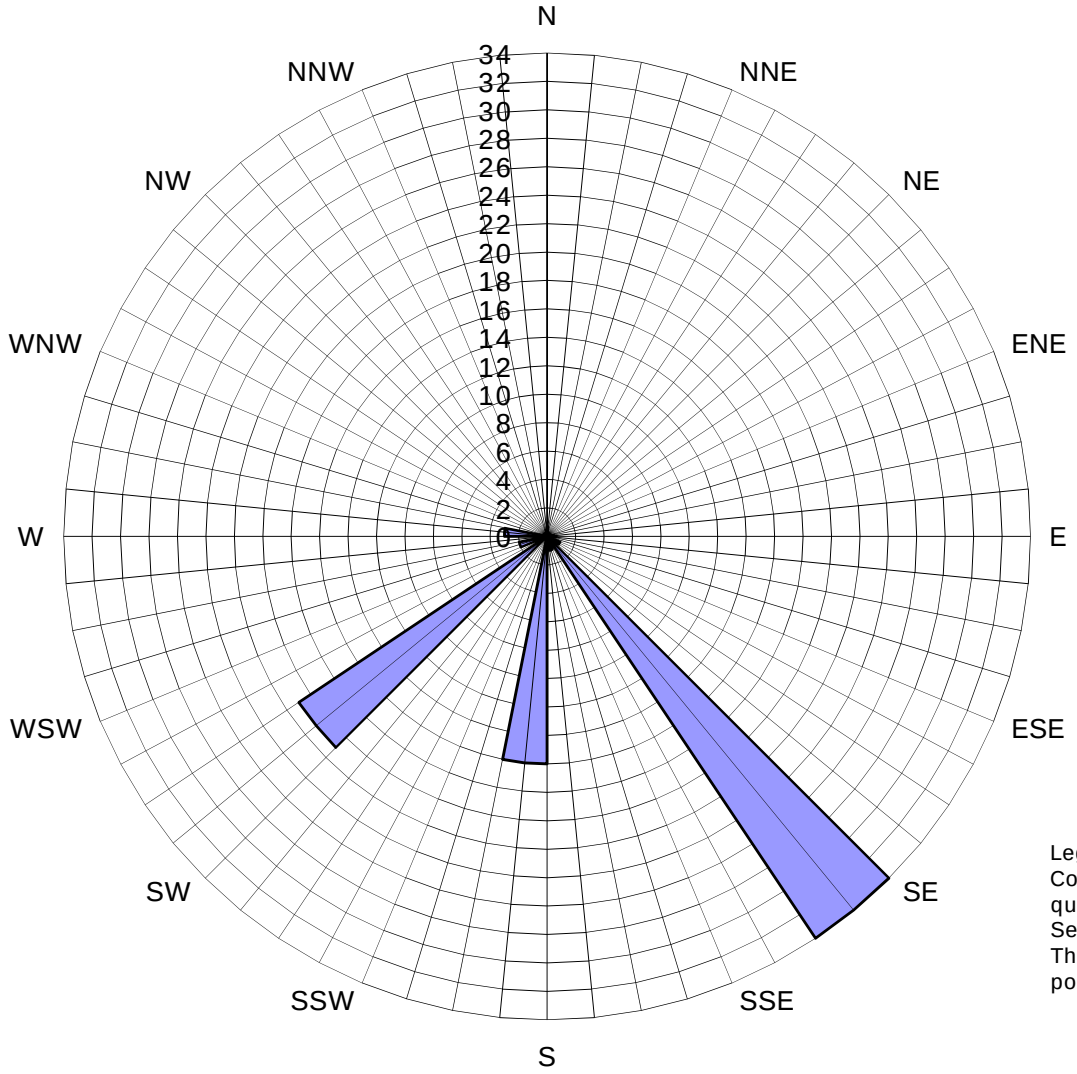
SCALE IN FEET

FIGURE 4
DISSOLVED PHASE CONCENTRATION MAP
SEPTEMBER 19, 2016
76 STATION NO. 5191/5043
449 HEGENBERGER ROAD
OAKLAND, CALIFORNIA

PROJECT NO.	PREPARED BY	DRAWN BY
142705191	JF	JH
DATE	REVIEWED BY	FILE NAME
10/20/16	BP	5191-SiteS

antea group

Figure 5
Historical Groundwater Flow Directions
76 Station No. 5191/5043
449 Hegenberger Road
Oakland, California



Legend
Concentric circles represent quarterly montoring events Second Quarter 1992 through Third Quarter 2016. 80 data points shown

Groundwater Flow Direction

Tables

TABLE 1
WELL CONSTRUCTION DETAILS
76 STATION NO. 5191/5043
449 HEGENBERGER ROAD
OAKLAND, CALIFORNIA

Well I.D.	Drill Date	Well		Screen		Screen Length	Comments
		Depth (feet bgs)	Diameter (inches)	Top (feet bgs)	Bottom (feet bgs)	(feet)	
Monitoring Wells							
MW-1	02/05/91	13.5	2	2.0	13.0	11.0	Destoryed
MW-2	02/05/91	15.0	2	3.0	15.0	12.0	Destroyed
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	Destroyed
MW-5	08/21/92	13.5	2	2.5	13.5	11.0	Destroyed
MW-6	08/21/92	13.5	2	2.5	13.5	11.0	Destroyed
MW-7	04/21/97	13.0	2	3.0	13.0	10.0	Destroyed
MW-8	04/21/97	15.0	2	3.0	15.0	12.0	Destroyed
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	Destroyed
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	Destroyed
MW-12A	06/23/10	34.0	2	30.0	34.0	4.0	Destroyed
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	Destroyed
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	Destroyed

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 ELEVATION DATA						GROUNDWATER ANALYTICAL DATA								
		TOC Elevation (ft)	Water Level Depth (ft)	LNAPL Depth (ft)	LNAPL Thickness (ft)	Water Level Elevation* (ft)	Qualifiers	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	9/19/2016	10.81	3.21	NP	--	7.60	--	**93 HD**	**400**	< 0.50	< 1.0	< 1.0	<1.0	**21**	**47**	< 100
MW-9	9/19/2016	10.94	2.28	NP	--	8.66	--	< 45	< 50	< 0.50	< 1.0	< 1.0	<1.0	< 1.0	< 10	< 100
MW-11	9/19/2016	10.53	2.84	NP	--	7.69	--	**170 HD**	< 50	< 0.50	< 1.0	< 1.0	<1.0	**7.6**	< 10	< 100
MW-13	9/19/2016	11.08	4.12	NP	--	6.96	--	< 45	< 50	< 0.50	< 1.0	< 1.0	<1.0	**20**	**30**	< 100
MW-15	9/19/2016	11.11	3.50	NP	--	7.61	--	< 45	< 50	< 0.50	< 1.0	< 1.0	<1.0	**47**	**35**	< 100
MW-16	9/19/2016	10.98	3.19	NP	--	7.79	--	**490 HD**	< 50	< 0.50	< 1.0	< 1.0	<1.0	**5.7**	**87**	< 100

Gauging Notes:
TOC - Top of Casing
ft - Feet
LNAPL - Light non-aqueous phase liquid
NP - Not present
* - 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 (silica gel treated)
TPHg- Total petroleum hydrocarbons as gasoline, also known as Gasoline Range Organics (GRO)
MTBE- Methyl tertiary-butyl ether
TBA- Tertiary-butyl alcohol
Bold - Above the laboratory's indicated reporting limit
HD - The chromatographic pattern was inconsistent with the profile of the reference fuel standard

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

Well I.D.	Date	GROUNDWATER ELEVATION DATA						GROUNDWATER ANALYTICAL DATA														
		TOC Elevation (ft)	Water Level Depth (ft)	LNAPL Depth (ft)	LNAPL Thickness (ft)	Water Level Elevation* (ft)	Qualifiers	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)	EDB (ug/L)	1,2-DCA (ug/L)
MW-1	2/18/1992	--	--	--	--	--	NG	13,000	150,000	17,000	26,000	5,200	26,000	--	--	--	--	--	--	--	--	--
MW-1	5/20/1992	--	--	--	--	--	NG	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-1	8/31/1992	--	--	--	--	--	NG	8,900	64,000	13,000	12,000	2,500	22,000	--	--	--	--	--	--	--	--	--
MW-1	11/30/1992	--	--	--	--	--	NG	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-1	2/4/1993	--	--	--	--	--	NG	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-1	5/4/1993	8.96	2.13	2.03	0.10	6.90	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-1	8/4/1993	8.96	2.92	2.89	0.03	6.06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-1	11/3/1993	7.38	3.04	NP	--	4.34	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-1	2/7/1994	7.38	2.55	2.52	0.03	4.85	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-1	5/19/1994	7.38	2.23	2.22	0.01	5.16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-1	6/25/1994	7.38	2.49	2.48	0.01	4.90	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-1	7/27/1994	7.38	3.10	NP	--	4.28	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-1	8/15/1994	7.38	2.85	2.74	0.11	4.61	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-1	11/14/1994	7.38	2.97	2.85	0.12	4.50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-1	2/21/1995	7.38	1.53	1.51	0.02	5.87	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-1	5/18/1995	7.38	--	--	--	--	WD	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	2/18/1992	--	--	--	--	--	NG	4,300	29,000	1,000	5,300	260	7,900	--	--	--	--	--	--	--	--	--
MW-2	5/20/1992	--	--	--	--	--	NG	4,300	24,000	2,200	7,600	630	11,000	--	--	--	--	--	--	--	--	--
MW-2	8/31/1992	--	--	--	--	--	NG	1,600	9,000	1,800	640	140	2,000	--	--	--	--	--	--	--	--	--
MW-2	11/30/1992	--	--	--	--	--	NG	5,700	29,000	2,000	3,400	1,200	6,900	--	--	--	--	--	--	--	--	--
MW-2	2/4/1993	--	--	--	--	--	NG	6,100	18,000	1,600	3,000	ND	6,900	--	--	--	--	--	--	--	--	--
MW-2	5/4/1993	8.96	2.48	NP	--	6.48	--	7,100	63,000	3,200	17,000	470	17,000	--	--	--	--	--	--	--	--	--
MW-2	8/4/1993	8.96	3.20	NP	--	5.76	--	1,800	45,000	2,100	6,600	1,400	12,000	--	--	--	--	--	--	--	--	--
MW-2	11/3/1993	8.58	3.37	NP	--	5.21	--	2,600	72,000	3,700	16,000	3,700	20,000	--	--	--	--	--	--	--	--	--
MW-2	2/7/1994	8.58	2.40	NP	--	6.18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	5/19/1994	8.58	2.13	NP	--	6.45	--	3,000	42,000	2,500	1,300	2,300	13,000	--	--	--	--	--	--	--	--	--
MW-2	6/25/1994	8.58	2.65	NP	--	5.93	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	7/27/1994	8.58	3.44	NP	--	5.14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	8/15/1994	8.58	3.25	NP	--	5.33	--	2,800	35,000	2,400	850	1,700	15,000	--	--	--	--	--	--	--	--	--
MW-2	11/14/1994	8.58	2.13	NP	--	6.45	--	10,000	43,000	2,200	6,500	1,800	14,000	--	--	--	--	--	--	--	--	--
MW-2	2/21/1995	8.58	1.65	NP	--	6.93	--	2,000	44,000	2,200	3,200	1,300	1,500	--	--	--	--	--	--	--	--	--
MW-2	5/18/1995	8.58	--	--	--	--	WD	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	2/18/1992	--	--	--	--	--	NG	ND	230	4.8	22	1.8	33	--	--	--	--	--	--	--	--	--
MW-3	5/20/1992	--	--	--	--	--	WI	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	8/31/1992	--	--	--	--	--	NG	92	210	1	ND	ND	ND	--	--	--	--	--	--	--	--	--
MW-3	11/30/1992	--	--	--	--	--	NG	94	790	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
MW-3	2/4/1993	--	--	--	--	--	NG	550	3,300	320	ND	96	6.1	--	--	--	--	--	--	--	--	--
MW-3	5/4/1993	7.84	4.32	NP	--	3.52	--	250	1,800	95	ND	ND	ND	--	--	--	--	--	--	--	--	--
MW-3	8/4/1993	7.84	4.94	NP	--	2.90	--	100	210	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
MW-3	11/3/1993	7.42	4.53	NP	--	2.89	--	160	640	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
MW-3	2/7/1994	7.42	2.40	NP	--	5.02	--	620	2,700	110	ND	17	ND	--	--	--	--	--	--	--	--	--
MW-3	5/19/1994	7.42	3.60	NP	--	3.82	--	480	1,800	83	ND	6.2	9.1	--	--	--	--	--	--	--	--	--
MW-3	6/25/1994	7.42	4.58	NP	--	2.84	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	7/27/1994	7.42	4.58	NP	--	2.84	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	8/15/1994	7.42	4.65	NP	--	2.77	--	110	130	1.1	0.54	ND	0.97	--	--	--	--	--	--	--	--	--
MW-3	11/14/1994	7.42	3.18	NP	--	4.24	--	150	1,600	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
MW-3	2/21/1995	7.42	1.81	NP	--	5.61	--	850	3,800	350	ND	130	22	--	--	--	--	--	--	--	--	--
MW-3	5/18/1995	7.42	4.56	NP	--	2.86	--	150	1,300	42	ND	ND	ND	--	--	--	--	--	--	--	--	--
MW-3	8/17/1995	7.42	--	--	--	--	WI	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	7/26/1996	7.42	--	--	--	--	WI	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	10/28/1996	7.42	--	--	--	--	WO	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	1/29/1997	7.42	--	--	--	--	WI	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	4/15/1997	7.42	--	--	--	--	WI	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	5/27/1997	7.42	3.45	NP	--	3.97	--	--	670	6.5	ND	ND	ND	250	--	--	--	--	--	--	--	--
MW-3	6/1/1997	7.42	3.50	NP	--	3.92	--	610	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	7/15/1997	8.04	3.71	NP	--	4.33	--	240	240	ND	ND	ND	ND	490	--	--	--	--	--	--	--	--
MW-3	10/9/1997	8.04	3.70	NP	--	4.34	--	500	270	1.1	ND	2.4	1.4	910	--	--	--	--	--	--	--	--
MW-3	1/14/1998	8.04	2.16	NP	--	5.88	--	340	310	ND	ND	0.62	0.65	140	--	--	--	--	--	--	--	--
MW-3	4/1/1998	8.04	2.20	NP	--	5.84	--	320	370	5.7	ND	ND	ND	93	--	--	--	--	--	--	--	--
MW-3	7/15/1998	8.04	3.38	NP	--	4.66	--	510	460	ND	ND	ND	ND	230	--	--	--	--	--	--	--	--
MW-3	10/16/1998	8.04	2.30	NP	--	5.74	--	67	330	4.7	ND	ND	ND	60	--	--	--	--	--	--	--	--

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

Well I.D.	Date	GROUNDWATER ELEVATION DATA						GROUNDWATER ANALYTICAL DATA													
		TOC Elevation (ft)	Water Level Depth (ft)	LNAPL Depth (ft)	LNAPL Thickness (ft)	Water Level Elevation* (ft)	Qualifiers	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)	EDB (ug/L)	1,2-DCA (ug/L)
MW-3	1/25/1999	8.04	2.42	NP	--	5.62	--	**120**	**420**	**1.5**	ND	ND	ND	**180**	--	--	--	--	--	--	--	--
MW-3	4/15/1999	8.04	2.16	NP	--	5.88	--	**170**	**290**	**0.54**	ND	ND	ND	**160**	--	--	--	--	--	--	--	--
MW-3	7/14/1999	8.04	2.35	NP	--	5.69	--	**420**	**290**	**3.2**	ND	ND	ND	**160**	--	--	--	--	--	--	--	--
MW-3	10/21/1999	8.04	2.49	NP	--	5.55	--	**350**	**360**	**0.77**	ND	ND	ND	**82**	--	--	--	--	--	--	--	--
MW-3	1/20/2000	8.04	2.38	NP	--	5.66	--	**2,060**	ND	**0.81**	ND	ND	ND	**54**	--	--	--	--	--	--	--	--
MW-3	4/13/2000	8.04	2.76	NP	--	5.28	--	**200**	**250**	**0.69**	ND	ND	ND	**91**	**150**	ND	ND	ND	ND	ND	ND	ND
MW-3	7/14/2000	8.04	3.26	NP	--	4.78	--	**423**	**345**	ND	ND	ND	ND	**94.7**	--	--	--	--	--	--	--	--
MW-3	10/26/2000	8.04	3.12	NP	--	4.92	--	**330**	**480**	**6.0**	ND	ND	ND	**120**	--	--	--	--	--	--	--	--
MW-3	1/3/2001	8.04	3.65	NP	--	4.39	--	**287**	**364**	**1.59**	ND	ND	ND	**118**	--	--	--	--	--	--	--	--
MW-3	4/4/2001	8.04	3.98	NP	--	4.06	--	**360**	**417**	**1.24**	ND	ND	**0.802**	**237**	--	--	--	--	--	--	--	--
MW-3	7/17/2001	8.04	3.12	NP	--	4.92	--	**270**	**480**	ND	ND	ND	ND	**150**	--	--	--	--	--	--	--	--
MW-3	10/1/2001	8.04	3.25	NP	--	4.79	--	**270**	**310**	**1.0**	< 0.50	< 0.50	< 0.50	**53**	--	--	--	--	--	--	--	--
MW-3	1/31/2002	8.04	2.27	NP	--	5.77	--	**250**	**250**	**3.5**	< 1.0	< 1.0	< 1.0	**110**	--	--	--	--	--	--	--	--
MW-3	4/18/2002	8.04	3.55	NP	--	4.49	--	**320**	**300**	< 2.0	< 2.0	< 2.0	< 2.0	--	**59**	--	--	--	--	--	--	--
MW-3	7/28/2002	8.04	2.55	NP	--	5.49	--	**310**	**500**	< 0.50	< 0.50	< 0.50	< 1.0	--	**130**	--	--	--	--	--	--	--
MW-3	10/9/2002	8.04	2.47	NP	--	5.57	--	**700**	**690**	< 5	< 5	< 5	< 10	--	**120**	--	--	--	--	--	--	--
MW-3	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
MW-3	4/1/2003	8.04	3.48	NP	--	4.56	--	**200**	**250**	< 1.0	< 1.0	< 1.0	< 2.0	--	**210**	--	--	--	--	--	--	--
MW-3	7/1/2003	8.04	2.65	NP	--	5.39	--	**380**	**450**	< 2.5	< 2.5	< 2.5	< 5.0	--	**70**	--	--	--	--	< 2500	--	--
MW-3	10/2/2003	8.04	3.12	NP	--	4.92	--	**300**	< 250	< 2.5	< 2.5	< 2.5	< 5.0	--	**210**	--	--	--	--	< 2500	--	--
MW-3	1/9/2004	8.04	2.39	NP	--	5.65	--	**200**	**300**	< 0.50	**0.53**	**0.53**	**1.5**	--	**66**	--	--	--	--	< 500	--	--
MW-3	4/26/2004	8.04	3.11	NP	--	4.93	--	**160**	**440**	**2.5**	**5.5**	**2.9**	**9.4**	--	**81**	--	--	--	--	< 50	--	--
MW-3	7/22/2004	8.04	2.51	NP	--	5.53	--	**330**	**420**	< 0.5	< 0.5	< 0.5	< 1	--	**72**	--	--	--	--	< 1000	--	--
MW-3	10/29/2004	8.04	2.00	NP	--	6.04	--	**200**	**460**	**5.6**	**15**	**10**	**46**	--	**48**	--	--	--	--	< 50	--	--
MW-3	1/10/2005	8.04	1.52	NP	--	6.52	--	**250**	**280**	< 0.50	**0.62**	< 0.50	**2.4**	--	**64**	--	--	--	--	< 50	--	--
MW-3	6/15/2005	8.04	2.00	NP	--	6.04	--	**360**	**460**	< 0.50	**0.70**	**0.56**	**1.9**	--	**110**	--	--	--	--	< 50	--	--
MW-3	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	--	--
MW-3	12/13/2005	8.04	2.35	NP	--	5.69	--	**230**	**230**	< 0.50	< 0.50	< 0.50	< 1.0	--	**92**	--	--	--	--	< 250	--	--
MW-3	3/23/2006	8.04	1.84	NP	--	6.20	--	**260**	**290**	< 0.50	< 0.50	< 0.50	< 1.0	--	**88**	--	--	--	--	< 250	--	--
MW-3	6/23/2006	8.04	2.26	NP	--	5.78	--	**330**	**500**	< 0.50	< 0.50	< 0.50	< 1.0	--	**75**	--	--	--	--	< 250	--	--
MW-3	9/26/2006	8.04	2.08	NP	--	5.96	--	**260**	**270**	< 0.50	< 0.50	< 0.50	< 0.50	--	**73**	--	--	--	--	< 250	--	--
MW-3	12/22/2006	8.04	1.88	NP	--	6.16	--	**250**	**260**	< 0.50	< 0.50	< 0.50	**1.2**	--	**71**	--	--	--	--	< 250	--	--
MW-3	3/30/2007	8.04	2.47	NP	--	5.57	--	**210**	**390**	< 0.50	< 0.50	< 0.50	< 0.50	--	**120**	--	--	--	--	< 250	--	--
MW-3	6/28/2007	8.04	2.54	NP	--	5.50	--	**290**	**370**	< 0.50	< 0.50	< 0.50	< 0.50	--	**55**	--	--	--	--	< 250	--	--
MW-3	9/25/2007	8.04	2.56	NP	--	5.48	--	**210**	**350**	< 0.50	< 0.50	< 0.50	< 0.50	--	**61**	--	--	--	--	< 250	--	--
MW-3	12/28/2007	8.04	2.29	NP	--	5.75	--	**150**	**260**	< 0.50	< 0.50	< 0.50	< 1.0	--	**66**	--	--	--	--	< 250	--	--
MW-3	3/22/2008	8.04	3.26	NP	--	4.78	--	**230**	**390**	< 0.50	< 0.50	< 0.50	< 1.0	--	**39**	--	--	--	--	< 250	--	--
MW-3	6/23/2008	8.04	2.60	NP	--	5.44	--	**130**	**200**	< 0.50	< 0.50	< 0.50	< 1.0	--	**46**	--	--	--	--	< 250	--	--
MW-3	9/19/2008	8.04	3.45	NP	--	4.59	--	**93**	**180**	< 0.50	< 0.50	< 0.50	< 1.0	--	**120**	--	--	--	--	< 250	--	--
MW-3	12/31/2008	8.04	2.55	NP	--	5.49	--	**110**	**190**	< 0.50	< 0.50	< 0.50	< 1.0	--	**38**	--	--	--	--	< 250	--	--
MW-3	3/27/2009	8.04	2.37	NP	--	5.67	--	**130**	**150**	< 0.50	< 0.50	< 0.50	< 1.0	--	**50**	--	--	--	--	< 250	--	--
MW-3	5/28/2009	8.04	3.32	NP	--	4.72	--	**120**	**190**	< 0.50	< 0.50	< 0.50	< 1.0	--	**60**	--	--	--	--	< 250	--	--
MW-3	9/17/2009	8.04	2.63	NP	--	5.41	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	12/17/2009	8.04	2.13	NP	--	5.91	--	**338**	**300**	< 0.50	< 0.50	**0.78**	< 1.5	--	**43.1**	--	--	--	--	< 250	--	--
MW-3	3/29/2010	8.04	2.22	NP	--	5.82	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	6/30/2010	10.81	2.91	NP	--	7.90	--	**89.7**	**261**	< 0.50	< 0.50	< 0.50	< 1.5	--	**89.0**	--	--	--	--	< 250	--	--
MW-3	7/6/2010	10.81	2.66	NP	--	8.15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	9/20/2010	10.81	3.12	NP	--	7.69	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	12/8/2010	10.81	2.37	NP	--	8.44	--	**137**	**306**	< 0.50	< 0.50	< 0.50	< 1.5	--	**58.8**	--	--	--	--	< 250	--	--
MW-3	3/14/2011	10.81	2.26	NP	--	8.55	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	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	--	--
MW-3	9/7/2011	10.81	2.36	NP	--	8.45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	12/5/2011	10.81	2.55	NP	--	8.26	--	**81.7**	**381**	< 0.50	< 0.50	< 0.50	< 1.5	--	**41.8**	--	--	--	--	< 250	--	--
MW-3	3/6/2012	10.81	2.63	NP	--	8.18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	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	--	--
MW-3	9/6/2012	10.81	2.50	NP	--	8.31	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	12/13/2012	10.81	2.50	NP	--	8.31	--	< 50	**130**	< 0.50	< 0.50	< 0.50	< 0.50	--	**28**	--	--	--	**77**	< 5.0	--	--
MW-3	3/14/2013	10.81	2.63	NP	--	8.18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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-3	9/10/2013	10.81	3.25	NP	--	7.56	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	12/12/2013	10.81	2.60	NP	--	8.21	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	3/4/2014	10.81	2.38	NP	--	8.43	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	6/12/2014	10.81	3.23	NP	--	7.58	--	< 50	**310**	< 0.50	< 0.50	< 0.50	< 0.50	--	**28**	--	--	--	**74**	< 5.0	--	--

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

Well I.D.	Date	GROUNDWATER ELEVATION DATA						GROUNDWATER ANALYTICAL DATA														
		TOC Elevation (ft)	Water Level Depth (ft)	LNAPL Depth (ft)	LNAPL Thickness (ft)	Water Level Elevation* (ft)	Qualifiers	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)	EDB (ug/L)	1,2-DCA (ug/L)
MW-3	9/5/2014	10.81	3.62	NP	--	7.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	12/22/2014	10.81	2.07	NP	--	8.74	--	< 50	**250**	< 0.50	< 0.50	< 0.50	< 0.50	--	**15**	--	--	--	**35**	< 5.0	--	--
MW-3	3/16/2015	10.81	2.73	NP	--	8.08	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	6/11/2015	10.81	3.31	NP	--	7.50	--	**63**	< 250	< 2.5	< 5.0	< 5.0	--	--	**21**	--	--	--	**85**	< 500	--	--
MW-3	12/8/2015	10.81	3.52	NP	--	7.29	--	< 50	< 250	< 2.5	< 5.0	< 5.0	< 5.0	--	**16**	--	--	--	**160**	< 500	--	--
MW-3	3/8/2016	10.81	2.21	NP	--	8.60	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	6/29/2016	10.81	3.65	NP	--	7.16	--	**65**	**79**	< 0.50	< 1.0	< 1.0	--	--	**23**	--	--	--	**120**	< 100	--	--
MW-3	9/19/2016	10.81	3.21	NP	--	7.60	--	**93 HD**	**400**	< 0.50	< 1.0	< 1.0	< 1.0	--	**21**	--	--	--	**47**	< 100	--	--
MW-4	8/31/1992	--	--	--	--	--	NG	**90**	**240**	ND	ND	ND	**0.54**	--	--	--	--	--	--	--	--	--
MW-4	11/30/1992	--	--	--	--	--	NG	**61**	**420**	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
MW-4	2/4/1993	--	--	--	--	--	NG	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
MW-4	5/4/1993	9.00	4.09	NP	--	4.91	--	ND	**110**	**0.95**	ND	ND	ND	--	--	--	--	--	--	--	--	--
MW-4	8/4/1993	9.00	5.01	NP	--	3.99	--	**81**	**250**	ND	**3.5**	ND	**4.1**	--	--	--	--	--	--	--	--	--
MW-4	11/3/1993	8.41	4.23	NP	--	4.18	--	**68**	**130**	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
MW-4	2/7/1994	8.41	3.35	NP	--	5.06	--	ND	**56**	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
MW-4	5/19/1994	8.41	3.92	NP	--	4.49	--	**90**	**140**	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
MW-4	6/25/1994	8.41	4.35	NP	--	4.06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	7/27/1994	8.41	4.28	NP	--	4.13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	8/15/1994	8.41	4.27	NP	--	4.14	--	**72**	**59**	ND	**0.6**	ND	ND	--	--	--	--	--	--	--	--	--
MW-4	11/14/1994	8.41	4.05	NP	--	4.36	--	ND	**130**	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
MW-4	2/21/1995	8.41	--	--	--	--	WD	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	8/31/1992	--	--	--	--	--	NG	**690**	**78**	**0.89**	ND	ND	**13**	--	--	--	--	--	--	--	--	--
MW-5	11/30/1992	--	--	--	--	--	NG	**470**	**930**	**70**	**290**	**0.79**	**14**	--	--	--	--	--	--	--	--	--
MW-5	2/4/1993	--	--	--	--	--	NG	**5,500**	**5,700**	**38**	ND	**620**	**170**	--	--	--	--	--	--	--	--	--
MW-5	5/4/1993	8.95	4.37	NP	--	4.58	--	**4,600**	**7,400**	**41**	ND	**1,000**	**35**	--	--	--	--	--	--	--	--	--
MW-5	8/4/1993	8.95	5.81	NP	--	3.14	--	**970**	**1,500**	**130**	**1**	**460**	**11**	--	--	--	--	--	--	--	--	--
MW-5	11/3/1993	8.95	5.68	NP	--	3.27	--	**2,100**	**13,000**	**350**	ND	**3,500**	**530**	--	--	--	--	--	--	--	--	--
MW-5	2/7/1994	8.95	5.11	NP	--	3.84	--	**830**	**2,000**	**87**	ND	**370**	**110**	--	--	--	--	--	--	--	--	--
MW-5	5/19/1994	8.95	5.09	NP	--	3.86	--	**600**	**260**	**44**	ND	**32**	**4.1**	--	--	--	--	--	--	--	--	--
MW-5	6/25/1994	8.95	4.55	NP	--	4.40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	7/27/1994	8.95	5.72	NP	--	3.23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	8/15/1994	8.95	5.68	NP	--	3.27	--	**860**	**1,600**	**110**	ND	**340**	**72**	--	--	--	--	--	--	--	--	--
MW-5	11/14/1994	8.95	5.63	NP	--	3.32	--	**290**	**250**	**40**	ND	ND	**5**	--	--	--	--	--	--	--	--	--
MW-5	2/21/1995	8.95	--	--	--	--	WD	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	8/31/1992	--	--	--	--	--	NG	**750**	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
MW-6	11/30/1992	--	--	--	--	--	NG	**1,400**	**9,200**	**550**	ND	**740**	**1,600**	--	--	--	--	--	--	--	--	--
MW-6	2/4/1993	--	--	--	--	--	NG	**890**	**3,600**	**340**	ND	**290**	**550**	--	--	--	--	--	--	--	--	--
MW-6	5/4/1993	9.12	3.72	NP	--	5.40	--	**1,800**	**4,900**	**360**	**18**	**450**	**430**	--	--	--	--	--	--	--	--	--
MW-6	8/4/1993	9.12	5.15	NP	--	3.97	--	**1,100**	**3,400**	**390**	ND	**440**	**190**	--	--	--	--	--	--	--	--	--
MW-6	11/3/1993	8.87	5.25	NP	--	3.62	--	**390**	**1,400**	**320**	ND	**200**	**7.7**	--	--	--	--	--	--	--	--	--
MW-6	2/7/1994	8.87	4.55	NP	--	4.32	--	**970**	**4,900**	**650**	ND	**250**	**35**	--	--	--	--	--	--	--	--	--
MW-6	5/19/1994	8.87	4.62	NP	--	4.25	--	**1,400**	**3,600**	**300**	**1.7**	**210**	**41**	--	--	--	--	--	--	--	--	--
MW-6	8/15/1994	8.87	5.08	NP	--	3.79	--	**790**	**1,300**	**130**	**6.7**	**54**	**57**	--	--	--	--	--	--	--	--	--
MW-6	11/14/1994	8.87	5.30	NP	--	3.57	--	**800**	**730**	**50**	ND	ND	**39**	--	--	--	--	--	--	--	--	--
MW-6	2/21/1995	8.87	5.37	NP	--	3.50	--	**730**	**2,000**	**250**	**4.6**	**25**	**30**	--	--	--	--	--	--	--	--	--
MW-6	5/18/1995	8.87	--	--	--	--	WI	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	8/17/1995	8.87	--	--	--	--	WI	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	7/26/1996	8.87	6.40	3.07	3.33	4.97	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	10/28/1996	8.87	4.10	3.89	0.21	4.93	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	11/13/1996	8.87	4.02	3.77	0.25	5.04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	11/25/1996	8.87	4.01	3.26	0.75	5.42	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	12/4/1996	8.87	3.65	3.15	0.50	5.59	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	12/19/1996	8.87	4.80	2.60	2.20	5.72	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	1/8/1997	8.87	4.84	3.09	1.75	5.34	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	1/14/1997	8.87	4.51	3.36	1.15	5.22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	1/27/1997	8.87	4.00	2.25	1.75	6.18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	1/29/1997	8.87	3.24	2.93	0.31	5.86	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	2/11/1997	8.87	4.65	3.45	1.20	5.12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	2/24/1997	8.87	4.81	3.71	1.10	4.89	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	3/10/1997	8.87	4.60	3.65	0.95	4.98	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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

Well I.D.	Date	GROUNDWATER ELEVATION DATA						GROUNDWATER ANALYTICAL DATA														
		TOC Elevation (ft)	Water Level Depth (ft)	LNAPL Depth (ft)	LNAPL Thickness (ft)	Water Level Elevation* (ft)	Qualifiers	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)	EDB (ug/L)	1,2-DCA (ug/L)
MW-6	3/17/1997	8.87	4.50	3.61	0.89	5.04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	3/31/1997	8.87	4.65	3.65	1.00	4.97	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	4/15/1997	8.87	4.90	3.87	1.03	4.74	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	4/28/1997	8.87	4.78	4.75	0.03	4.11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	5/15/1997	8.87	4.60	4.35	0.25	4.46	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	5/27/1997	8.87	4.50	4.25	0.25	4.56	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	6/9/1997	8.87	4.60	4.40	0.20	4.42	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	6/24/1997	8.87	4.50	4.25	0.25	4.56	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	7/9/1997	8.87	4.80	4.20	0.60	4.52	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	7/15/1997	8.87	4.63	4.21	0.42	4.55	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	7/21/1997	8.87	4.75	4.50	0.25	4.31	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	8/6/1997	8.87	4.50	4.40	0.10	4.44	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	8/20/1997	8.87	4.55	4.45	0.10	4.39	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	9/2/1997	8.87	4.75	4.70	0.05	4.16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	10/9/1997	8.87	4.84	4.80	0.04	4.06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	1/14/1998	8.87	3.90	2.96	0.94	5.67	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	2/12/1998	8.87	3.35	2.71	0.64	6.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	3/3/1998	8.87	4.51	4.49	0.02	4.37	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	4/1/1998	8.87	3.67	2.07	1.60	6.40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	5/26/1998	8.87	4.11	3.61	0.50	5.13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	6/15/1998	8.87	5.03	4.73	0.30	4.06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	7/15/1998	8.87	4.56	4.51	0.05	4.35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	8/21/1998	8.87	4.77	4.75	0.02	4.11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	9/30/1998	8.87	5.08	5.05	0.03	3.81	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	10/16/1998	8.87	4.31	1.91	2.40	6.36	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	11/6/1998	8.87	3.98	3.81	0.17	5.02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	11/25/1998	8.87	3.92	3.82	0.10	5.02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	12/28/1998	8.87	3.90	3.70	0.20	5.12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	1/25/1999	8.87	4.18	3.58	0.60	5.14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	2/22/1999	8.87	4.07	3.85	0.22	4.96	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	3/22/1999	8.87	4.32	4.17	0.15	4.66	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	4/15/1999	8.87	4.23	3.28	0.95	5.35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	5/28/1999	8.87	4.38	3.99	0.39	4.78	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	6/29/1999	8.87	4.12	4.10	0.02	4.76	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	7/14/1999	8.87	4.20	4.17	0.03	4.69	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	8/23/1999	8.87	4.51	4.27	0.24	4.54	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	9/30/1999	8.87	4.17	4.00	0.17	4.83	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	10/21/1999	8.87	4.27	4.15	0.12	4.69	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	11/29/1999	8.87	4.18	NP	--	4.69	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	12/20/1999	8.87	4.26	4.25	0.01	4.62	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	1/20/2000	8.87	4.31	NP	--	4.56	--	**67,600**	**130,000**	**2,900**	**8,600**	**2,000**	**16,000**	ND	--	--	--	--	--	--	--	--
MW-6	2/26/2000	8.87	3.98	NP	--	4.89	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	3/31/2000	8.87	4.14	NP	--	4.73	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	4/13/2000	8.87	4.04	NP	--	4.83	--	**8,700**	**140,000**	**5,000**	**14,000**	**3,600**	**27,000**	**7,700**	--	--	--	--	--	--	--	--
MW-6	5/26/2000	8.87	4.41	NP	--	4.46	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	6/17/2000	8.87	4.35	NP	--	4.52	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	7/14/2000	8.87	4.47	NP	--	4.40	--	**133,000**	**259,000**	**7,670**	**13,700**	**6,860**	**40,700**	ND	ND	--	--	--	--	--	--	--
MW-6	8/24/2000	8.87	3.71	NP	--	5.16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	9/27/2000	8.87	4.33	NP	--	4.54	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	10/26/2000	8.87	4.32	NP	--	4.55	--	**61,000**	**110,000**	**7,000**	**6,200**	**3,700**	**12,000**	**670**	**43**	--	--	--	--	--	--	--
MW-6	1/3/2001	8.87	4.52	NP	--	4.35	--	**929**	**84,700**	**3,950**	**4,130**	**3,650**	**11,800**	ND	ND	--	--	--	--	--	--	--
MW-6	4/4/2001	8.87	4.29	NP	--	4.58	--	**18,000**	**69,800**	**2,060**	**2,840**	**3,650**	**10,900**	ND	**47.8**	ND	ND	ND	ND	ND	ND	ND
MW-6	7/17/2001	8.87	4.37	NP	--	4.50	--	**20,000**	**100,000**	**3,200**	**3,300**	**3,400**	**12,000**	ND	--	--	--	--	--	--	--	--
MW-6	10/1/2001	8.87	4.45	NP	--	4.42	--	**24,000**	**110,000**	**3,200**	**2,400**	**4,500**	**13,000**	< 1000	--	--	--	--	--	--	--	--
MW-6	1/31/2002	8.87	4.03	NP	--	4.84	--	**11,000**	**230,000**	**2,400**	**1,800**	**5,400**	**16,000**	< 2500	--	--	--	--	--	--	--	--
MW-6	4/18/2002	8.87	3.45	NP	--	5.42	--	**3,500**	**94,000**	**6,800**	**13,000**	**3,000**	**19,000**	< 500	--	--	--	--	--	--	--	--
MW-6	7/28/2002	8.87	2.24	NP	--	6.63	--	**27,000**	**110,000**	**530**	**170**	**3,200**	**7,300**	--	< 100	--	--	--	--	--	--	--
MW-6	10/9/2002	8.87	3.53	NP	--	5.34	--	**170,000**	**970,000**	**10,000**	**39,000**	**13,000**	**94,000**	--	< 2000	--	--	--	--	--	--	--
MW-6	1/2/2003	8.87	2.34	NP	--	6.53	--	**66,000**	**270,000**	**6,100**	**15,000**	**5,400**	**37,000**	--	< 200	--	--	--	--	--	--	--
MW-6	4/1/2003	8.87	3.17	NP	--	5.70	--	**35,000**	**3,000,000**	**8,000**	**39,000**	**37,000**	**260,000**	--	< 2000	--	--	--	--	--	--	--
MW-6	7/1/2003	8.87	3.55	NP	--	5.32	--	**11,000**	**38,000**	**2,100**	**990**	**2,700**	**6,500**	--	< 100	--	--	--	--	< 25000	--	--
MW-6	10/2/2003	8.87	3.82	NP	--	5.05	--	< 50	**100,000**	**5,600**	**6,900**	**4,700**	**18,000**	--	< 800	--	--	--	--	< 200000	--	--
MW-6	1/9/2004	8.87	2.80	NP	--	6.07	--	**20,000**	**170,000**	**2,800**	**3,300**	**4,700**	**16,000**	--	< 200	--	--	--	--	< 50000	--	--

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

Well I.D.	Date	GROUNDWATER ELEVATION DATA						GROUNDWATER ANALYTICAL DATA														
		TOC Elevation (ft)	Water Level Depth (ft)	LNAPL Depth (ft)	LNAPL Thickness (ft)	Water Level Elevation* (ft)	Qualifiers	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)	EDB (ug/L)	1,2-DCA (ug/L)
MW-6	4/26/2004	8.87	3.40	NP	--	5.47	--	**13,000**	**97,000**	**5,900**	**9,000**	**5,100**	**23,000**	--	< 50	--	--	--	--	< 5000	--	--
MW-6	7/22/2004	8.87	3.54	NP	--	5.33	--	**33,000**	**110,000**	**4,100**	**5,100**	**4,000**	**16,000**	--	< 200	--	--	--	--	< 300000	--	--
MW-6	10/29/2004	8.87	3.03	NP	--	5.84	--	**78,000**	**100,000**	**5,200**	**6,100**	**4,200**	**15,000**	--	< 50	--	--	--	--	< 5000	--	--
MW-6	1/10/2005	8.87	2.35	NP	--	6.52	--	**12,000**	**71,000**	**1,600**	**3,700**	**2,100**	**9,900**	--	< 50	--	--	--	--	< 5000	--	--
MW-6	6/15/2005	8.87	2.47	NP	--	6.40	--	**16,000**	**130,000**	**800**	**1,800**	**2,200**	**9,300**	--	< 50	--	--	--	--	< 5000	--	--
MW-6	9/27/2005	8.87	2.55	NP	--	6.32	--	**2,500**	**13,000**	**82**	**120**	**430**	**990**	--	**0.56**	**1.8**	< 0.50	< 0.50	< 10	< 250	--	--
MW-6	12/13/2005	8.87	3.28	NP	--	5.59	--	**18,000**	**68,000**	**1,500**	**1,100**	**2,200**	**7,700**	--	< 50	--	--	--	--	< 25000	--	--
MW-6	3/23/2006	8.87	2.87	NP	--	6.00	--	**73,000**	**41,000**	**290**	**140**	**1,500**	**2,700**	--	< 50	--	--	--	--	< 25000	--	--
MW-6	6/23/2006	8.87	3.15	NP	--	5.72	--	**35,000**	**50,000**	**2,200**	**1,400**	**1,900**	**5,700**	--	< 12	--	--	--	--	< 6200	--	--
MW-6	9/26/2006	8.87	3.08	NP	--	5.79	--	**22,000**	**130,000**	**2,200**	**1,000**	**2,900**	**8,800**	--	< 50	--	--	--	--	< 25000	--	--
MW-6	12/22/2006	8.87	2.90	NP	--	5.97	--	**62,000**	**90,000**	**940**	**610**	**1,900**	**4,700**	--	< 50	--	--	--	--	< 25000	--	--
MW-6	3/30/2007	8.87	3.26	NP	--	5.61	--	**62,000**	**210,000**	**1,100**	**560**	**3,400**	**12,000**	--	< 10	--	--	--	--	< 5000	--	--
MW-6	6/28/2007	8.87	3.46	NP	--	5.41	--	**71,000**	**67,000**	**2,200**	**1,300**	**2,700**	**10,000**	--	< 25	--	--	--	--	< 12000	--	--
MW-6	9/25/2007	8.87	3.52	NP	--	5.35	--	**58,000**	**56,000**	**2,900**	**720**	**2,400**	**9,000**	--	< 25	--	--	--	--	< 12000	--	--
MW-6	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	--	--
MW-6	3/22/2008	8.87	2.48	NP	--	6.39	--	**68,000**	**66,000**	**380**	**150**	**1,500**	**2,400**	--	< 25	--	--	--	--	< 12000	--	--
MW-6	6/23/2008	8.87	3.54	NP	--	5.33	--	**68,000**	**59,000**	**1,600**	**130**	**1,800**	**4,100**	--	**25**	--	--	--	--	< 12000	--	--
MW-6	9/19/2008	8.87	4.06	NP	--	4.81	--	**180,000**	**65,000**	**2,000**	**230**	**2,000**	**4,500**	--	< 12	--	--	--	--	< 6200	--	--
MW-6	12/31/2008	8.87	3.45	NP	--	5.42	--	**68,000**	**91,000**	**2,000**	**320**	**5,300**	**13,000**	--	< 50	--	--	--	--	< 25000	--	--
MW-6	3/27/2009	8.87	3.09	NP	--	5.78	--	**170,000**	**150,000**	**1,300**	**240**	**2,800**	**7,200**	--	< 50	--	--	--	--	< 25000	--	--
MW-6	5/28/2009	8.87	3.49	NP	--	5.38	--	**78,000**	**53,000**	**1,700**	**200**	**2,300**	**5,400**	--	< 50	--	--	--	--	< 25000	--	--
MW-6	9/17/2009	8.87	3.64	NP	--	5.23	--	**250,000**	**77,000**	**2,100**	**1,400**	**2,600**	**8,500**	--	< 12	--	--	--	--	< 6200	--	--
MW-6	12/17/2009	8.87	3.14	NP	--	5.73	--	**30,300**	**59,100**	**1,730**	**199**	**2,260**	**5,460**	--	**20.3**	--	--	--	--	< 250	--	--
MW-6	3/29/2010	8.87	3.16	NP	--	5.71	--	**106,000**	**48,400**	**1,980**	**208**	**3,070**	**8,070**	--	**12.1**	--	--	--	--	< 250	--	--
MW-6	6/30/2010	11.55	3.50	NP	--	8.05	--	**170,000**	**78,700**	**2,130**	**281**	**2,860**	**8,400**	--	**5.8**	--	--	--	--	< 250	--	--
MW-6	7/6/2010	11.55	3.49	NP	--	8.06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	9/20/2010	11.55	3.75	NP	--	7.80	--	**18800**	**64,500**	**2,300**	**170**	**2,770**	**6,260**	--	**19.3**	--	--	--	--	< 250	--	--
MW-6	12/8/2010	11.55	8.42	NP	--	3.13	--	**28700**	**78,400**	**1,300**	**1,680**	**3,490**	**20,600**	--	**11.3**	--	--	--	--	< 250	--	--
MW-6	3/14/2011	11.55	3.40	NP	--	8.15	--	**93000**	**44,600**	**912**	**338**	**728**	**3,670**	--	**16.3**	--	--	--	**134**	< 250	--	--
MW-6	6/2/2011	11.55	2.76	NP	--	8.79	--	**33700**	**56,200**	**780**	**262**	**651**	**3,890**	--	**6.7**	--	--	--	**81.0**	< 250	--	--
MW-6	9/7/2011	11.55	2.83	NP	--	8.72	--	**6780**	**16,600**	**15.6**	**10.6**	**89.6**	**339**	--	< 0.50	--	--	--	--	< 250	--	--
MW-6	12/5/2011	11.55	3.56	NP	--	7.99	--	**20200**	**64,600**	**646**	**95.4**	**924**	**4,050**	--	**14.9**	--	--	--	--	< 250	--	--
MW-6	3/6/2012	11.55	3.43	NP	--	8.12	--	**14800**	**55,000**	**1,020**	**131**	**1,320**	**4,730**	--	**18.5**	--	--	--	**316**	< 1250	--	--
MW-6	6/11/2012	11.55	3.33	NP	--	8.22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	6/12/2012	--	--	--	--	--	--	**47,100**	**33,400**	**773**	**60.8**	**840**	**3,110**	--	**11.4**	--	--	--	**123**	< 250	--	--
MW-6	9/6/2012	11.55	2.85	NP	--	8.70	--	< 1000	**24,000**	**450**	**51**	**610**	**1,800**	--	**6.4**	< 4.0	< 4.0	< 4.0	**82**	< 40	< 4.0	< 4.0
MW-6	12/13/2012	11.55	2.90	NP	--	8.65	--	**470**	**20,000**	**200**	**16**	**350**	**1,100**	--	< 4.0	--	--	--	**22**	< 40	--	--
MW-6	3/14/2013	11.55	3.69	NP	--	7.86	--	**680**	**24,000**	**500**	**25**	**540**	**1,700**	--	**8.0**	--	--	--	**110**	< 40	--	--
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-6	6/11/2013	--	--	--	--	--	--	**2,800**	**62,000**	**1,600**	**200**	**1,800**	**8,100**	--	**15**	--	--	--	**210**	< 50	--	--
MW-6	9/10/2013	11.55	4.11	NP	--	7.44	--	**470**	**28,000**	**440**	**19**	**530**	**1,500**	--	**10**	--	--	--	**170**	< 40	--	--
MW-6	12/12/2013	11.55	3.55	NP	--	8.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	3/4/2014	11.55	3.07	NP	--	8.48	--	**580**	**33,000**	**490**	**19**	**620**	**1,800**	--	**13**	--	--	--	**160**	< 50	< 2.5	< 2.5
MW-6	6/12/2014	11.55	3.79	NP	--	7.76	--	570	**35,000**	**390**	**17**	**690**	**1,600**	--	**12**	--	--	--	**180**	< 50	--	--
MW-6	9/5/2014	11.55	4.50	NP	--	7.05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	12/22/2014	11.55	2.55	NP	--	9.00	--	**250**	**49,000**	**2,000**	**120**	**1,600**	**7,700**	--	**9.7**	--	--	--	**150**	< 150	--	--
MW-6	3/16/2015	11.55	3.55	NP	--	8.00	--	--	--	**4,070**	**181**	**3,050**	**15,900**	--	**2.8**	--	--	--	**56.2**	**71.8**	--	--
MW-6	6/11/2015	11.55	4.04	NP	--	7.51	--	**36,000**	**69,000**	**2,300**	**100**	**1,900**	--	--	< 50	--	--	--	< 500	< 5000	--	--
MW-7	5/27/1997	8.83	4.50	NP	--	4.33	--	--	**68**	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
MW-7	6/1/1997	8.83	4.54	NP	--	4.29	--	**69**	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	7/15/1997	8.83	4.70	NP	--	4.13	--	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
MW-7	10/9/1997	8.83	4.30	NP	--	4.53	--	**190**	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
MW-7	1/14/1998	8.83	2.88	NP	--	5.95	--	**65**	ND	ND	ND	ND	ND	**36**	--	--	--	--	--	--	--	--
MW-7	4/1/1998	8.83	3.13	NP	--	5.70	--	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
MW-7	7/15/1998	8.83	4.45	NP	--	4.38	--	**74**	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
MW-7	10/16/1998	8.83	3.45	NP	--	5.38	--	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
MW-7	1/25/1999	8.83	3.22	NP	--	5.61	--	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
MW-7	4/15/1999	8.83	3.11	NP	--	5.72	--	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
MW-7	7/14/1999	8.83	3.34	NP	--	5.49	--	**69**	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
MW-7	10/21/1999	8.83	3.43	NP	--	5.40	--	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
MW-7	1/20/2000	8.83	3.29	NP	--	5.54	--	ND	ND	ND	ND	ND	ND	**4.2**	--	--	--	--	--	--	--	--
MW-7	4/13/2000	8.83	3.39	NP	--	5.44	--	ND	ND	ND	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 ELEVATION DATA						GROUNDWATER ANALYTICAL DATA														
		TOC Elevation (ft)	Water Level Depth (ft)	LNAPL Depth (ft)	LNAPL Thickness (ft)	Water Level Elevation* (ft)	Qualifiers	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)	EDB (ug/L)	1,2-DCA (ug/L)
MW-7	7/14/2000	8.83	4.42	NP	--	4.41	--	**68.0**	ND	ND	ND	ND	ND	**7.83**	--	--	--	--	--	--	--	--
MW-7	7/17/2001	8.83	5.06	NP	--	3.77	--	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
MW-7	10/1/2001	8.83	4.98	NP	--	3.85	--	< 51	< 50	< 0.50	< 0.50	< 0.50	< 0.50	< 5.0	--	--	--	--	--	--	--	--
MW-7	1/31/2002	8.83	3.88	NP	--	4.95	--	**90**	< 50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	--	--	--	--	--	--	--	--
MW-7	4/18/2002	8.83	4.03	NP	--	4.80	--	**78**	< 50	< 0.50	< 0.50	< 0.50	< 0.50	**5.7**	--	--	--	--	--	--	--	--
MW-7	7/28/2002	8.83	3.59	NP	--	5.24	--	< 50	< 50	< 0.50	< 0.50	< 0.50	< 1.0	--	**3.9**	--	--	--	--	--	--	--
MW-7	10/9/2002	8.83	4.53	NP	--	4.30	--	< 96	< 50	< 0.50	< 0.50	< 0.50	< 1.0	--	**3.9**	--	--	--	--	--	--	--
MW-7	1/3/2003	8.83	3.36	NP	--	5.47	--	**78**	< 50	< 0.50	< 0.50	< 0.50	< 1.0	--	< 2.0	--	--	--	--	--	--	--
MW-7	4/1/2003	8.83	3.94	NP	--	4.89	--	**67**	**71**	< 0.50	< 0.50	**0.71**	< 1.0	--	**3.4**	--	--	--	--	--	--	--
MW-7	7/1/2003	8.83	4.60	NP	--	4.23	--	**68**	**64**	< 0.50	< 0.50	**0.77**	**2.0**	--	**35**	--	--	--	--	< 500	--	--
MW-7	10/2/2003	8.83	5.46	NP	--	3.37	--	**82**	< 50	< 0.50	< 0.50	< 0.50	< 1.0	--	**4.9**	--	--	--	--	< 500	--	--
MW-7	1/9/2004	8.83	3.55	NP	--	5.28	--	**75**	**54**	< 0.50	< 0.50	< 0.50	< 1.0	--	**2.4**	--	--	--	--	< 500	--	--
MW-7	4/26/2004	8.83	4.49	NP	--	4.34	--	< 50	< 50	< 0.50	< 0.50	< 0.50	**1.5**	--	**2.3**	--	--	--	--	< 50	--	--
MW-7	7/22/2004	8.83	4.93	NP	--	3.90	--	< 200	**82**	**0.90**	**2.0**	**3.5**	**9.9**	--	**1.4**	--	--	--	--	< 1000	--	--
MW-7	10/29/2004	8.83	3.71	NP	--	5.12	--	**54**	**210**	**0.67**	**1.6**	**1.7**	**5.8**	--	< 0.50	--	--	--	--	< 50	--	--
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	--	--
MW-7	6/15/2005	8.83	3.40	NP	--	5.43	--	< 50	< 50	< 0.50	< 0.50	< 0.50	< 1.0	--	**0.88**	--	--	--	--	< 50	--	--
MW-7	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	--	--
MW-7	12/13/2005	8.83	3.98	NP	--	4.85	--	< 200	< 50	< 0.50	< 0.50	< 0.50	< 1.0	--	**0.65**	--	--	--	--	< 250	--	--
MW-7	3/23/2006	8.83	3.37	NP	--	5.46	--	< 200	< 50	< 0.50	< 0.50	< 0.50	< 1.0	--	< 0.50	--	--	--	--	< 250	--	--
MW-7	6/23/2006	8.83	5.25	NP	--	3.58	--	< 200	< 50	< 0.50	< 0.50	< 0.50	< 1.0	--	< 0.50	--	--	--	--	< 250	--	--
MW-7	9/26/2006	8.83	4.13	NP	--	4.70	--	< 50	< 50	< 0.50	< 0.50	< 0.50	< 0.50	--	**0.77**	--	--	--	--	< 250	--	--
MW-7	12/22/2006	8.83	3.63	NP	--	5.20	--	**630**	< 50	< 0.50	< 0.50	< 0.50	< 0.50	--	< 0.50	--	--	--	--	< 250	--	--
MW-7	3/30/2007	8.83	4.31	NP	--	4.52	--	**94**	< 50	< 0.50	< 0.50	< 0.50	< 0.50	--	< 0.50	--	--	--	--	< 250	--	--
MW-7	6/28/2007	8.83	4.62	NP	--	4.21	--	< 50	< 50	< 0.50	< 0.50	< 0.50	< 0.50	--	**0.54**	--	--	--	--	< 250	--	--
MW-7	9/25/2007	8.83	4.65	NP	--	4.18	--	< 50	< 50	< 0.50	< 0.50	< 0.50	< 0.50	--	< 0.50	--	--	--	--	< 250	--	--
MW-7	12/28/2007	8.83	3.99	NP	--	4.84	--	**75**	< 50	< 0.50	< 0.50	< 0.50	< 1.0	--	< 0.50	--	--	--	--	< 250	--	--
MW-7	3/22/2008	8.83	4.08	NP	--	4.75	--	< 50	< 50	< 0.50	< 0.50	< 0.50	< 1.0	--	< 0.50	--	--	--	--	< 250	--	--
MW-7	6/23/2008	8.83	4.10	NP	--	4.73	--	< 50	< 50	< 0.50	< 0.50	< 0.50	< 1.0	--	< 0.50	--	--	--	--	< 250	--	--
MW-7	9/19/2008	8.83	4.86	NP	--	3.97	--	< 50	< 50	< 0.50	< 0.50	< 0.50	< 1.0	--	< 0.50	--	--	--	--	< 250	--	--
MW-7	12/31/2008	8.83	4.17	NP	--	4.66	--	< 50	< 50	< 0.50	< 0.50	< 0.50	< 1.0	--	< 0.50	--	--	--	--	< 250	--	--
MW-7	3/27/2009	8.83	4.00	NP	--	4.83	--	< 50	< 50	< 0.50	< 0.50	< 0.50	< 1.0	--	< 0.50	--	--	--	--	< 250	--	--
MW-7	5/28/2009	8.83	4.71	NP	--	4.12	--	< 50	< 50	< 0.50	< 0.50	< 0.50	< 1.0	--	< 0.50	--	--	--	--	< 250	--	--
MW-7	9/17/2009	8.83	4.87	NP	--	3.96	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	3/29/2010	8.83	--	--	--	--	WI	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	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	--	--
MW-7	7/6/2010	11.64	4.63	NP	--	7.01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	9/20/2010	11.64	4.85	NP	--	6.79	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	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	--	--
MW-7	3/14/2011	11.64	3.81	NP	--	7.83	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	6/2/2011	11.64	3.90	NP	--	7.74	--	**63.0**	< 50.0	< 0.50	< 0.50	< 0.50	< 1.5	--	< 0.50	--	--	--	< 5.0	< 250	--	--
MW-7	9/7/2011	11.64	3.72	NP	--	7.92	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	12/5/2011	11.64	4.60	NP	--	7.04	--	< 50.0	< 50.0	< 0.50	< 0.50	< 0.50	< 1.5	--	< 0.50	--	--	--	--	< 250	--	--
MW-7	3/6/2012	11.64	4.54	NP	--	7.10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	6/11/2012	11.64	4.93	NP	--	6.71	--	< 37.9	< 50.0	< 0.50	< 0.50	< 0.50	< 1.5	--	< 0.50	--	--	--	< 5.0	< 250	--	--
MW-7	9/6/2012	11.64	4.03	NP	--	7.61	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	12/13/2012	11.64	3.43	NP	--	8.21	--	< 50	< 50	< 0.50	< 0.50	< 0.50	< 0.50	--	< 0.50	--	--	--	< 5.0	< 5.0	--	--
MW-7	3/14/2013	11.64	4.90	NP	--	6.74	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	6/11/2013	11.64	6.92	NP	--	4.72	--	**96**	< 50	< 0.50	< 0.50	< 0.50	< 0.50	--	< 0.50	--	--	--	**7.0**	< 5.0	--	--
MW-7	9/10/2013	11.64	6.54	NP	--	5.10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	12/12/2013	11.64	4.60	NP	--	7.04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	3/4/2014	11.64	3.42	NP	--	8.22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	6/12/2014	11.64	5.76	NP	--	5.88	--	< 50	< 50	< 0.50	< 0.50	< 0.50	< 0.50	--	< 0.50	--	--	--	< 5.0	< 5.0	--	--
MW-7	1/1/2016	11.64	--	--	--	--	WD	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-8	5/27/1997	8.52	3.42	NP	--	5.10	--	--	**310**	**0.88**	**0.67**	**15**	**70**	ND	--	--	--	--	--	--	--	--
MW-8	6/1/1997	8.52	3.46	NP	--	5.06	--	**320**	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-8	7/15/1997	8.52	3.49	NP	--	5.03	--	ND	ND	ND	ND	**2.7**	**3.8**	ND	--	--	--	--	--	--	--	--
MW-8	10/9/1997	8.52	3.73	NP	--	4.79	--	**390**	**590**	**1.4**	ND	**32**	**4.1**	ND	--	--	--	--	--	--	--	--
MW-8	1/14/1998	8.52	1.92	NP	--	6.60	--	**230**	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
MW-8	4/1/1998	8.52	2.38	NP	--	6.14	--	**510**	ND	ND	ND	ND	ND	**4.7**	--	--	--	--	--	--	--	--
MW-8	7/15/1998	8.52	3.53	NP	--	4.99	--	**140**	ND	ND	ND	**0.56**	**1.1**	ND	--	--	--	--	--	--	--	--
MW-8	10/16/1998	8.52	3.04	NP	--	5.48	--	**170**	ND	ND	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 ELEVATION DATA						GROUNDWATER ANALYTICAL DATA													
		TOC Elevation (ft)	Water Level Depth (ft)	LNAPL Depth (ft)	LNAPL Thickness (ft)	Water Level Elevation* (ft)	Qualifiers	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)	EDB (ug/L)	1,2-DCA (ug/L)
MW-8	1/25/1999	8.52	2.92	NP	--	5.60	--	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
MW-8	4/15/1999	8.52	2.40	NP	--	6.12	--	**91**	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
MW-8	7/14/1999	8.52	3.03	NP	--	5.49	--	**120**	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
MW-8	10/21/1999	8.52	3.11	NP	--	5.41	--	**110**	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
MW-8	1/20/2000	8.52	3.06	NP	--	5.46	--	**583**	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
MW-8	4/13/2000	8.52	2.84	NP	--	5.68	--	**80**	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
MW-8	7/14/2000	8.52	3.39	NP	--	5.13	--	**113**	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
MW-8	7/17/2001	8.52	3.46	NP	--	5.06	--	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
MW-8	10/1/2001	8.52	3.51	NP	--	5.01	--	< 50	< 50	< 0.50	< 0.50	< 0.50	< 0.50	< 5.0	--	--	--	--	--	--	--	--
MW-8	1/31/2002	8.52	2.75	NP	--	5.77	--	**260**	< 50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	--	--	--	--	--	--	--	--
MW-8	4/18/2002	8.52	2.98	NP	--	5.54	--	**160**	< 50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	--	--	--	--	--	--	--	--
MW-8	7/28/2002	8.52	2.41	NP	--	6.11	--	**140**	< 50	< 0.50	< 0.50	< 0.50	< 1.0	--	< 2.0	--	--	--	--	--	--	--
MW-8	10/9/2002	8.52	2.09	NP	--	6.43	--	**120**	< 50	< 0.50	< 0.50	< 0.50	< 1.0	--	< 2.0	--	--	--	--	--	--	--
MW-8	1/2/2003	8.52	1.98	NP	--	6.54	--	**210**	< 50	< 0.50	< 0.50	< 0.50	< 1.0	--	< 2.0	--	--	--	--	--	--	--
MW-8	4/1/2003	8.52	2.66	NP	--	5.86	--	**220**	< 50	< 0.50	< 0.50	< 0.50	< 1.0	--	< 2.0	--	--	--	--	--	--	--
MW-8	7/1/2003	8.52	3.08	NP	--	5.44	--	**170**	< 50	< 0.50	< 0.50	< 0.50	< 1.0	--	< 2.0	--	--	--	--	< 500	--	--
MW-8	10/2/2003	8.52	3.89	NP	--	4.63	--	**350**	**540**	**3.9**	**15**	**29**	**80**	--	< 2.0	--	--	--	--	< 500	--	--
MW-8	1/9/2004	8.52	2.38	NP	--	6.14	--	**180**	< 50	< 0.50	< 0.50	< 0.50	< 1.0	--	< 2.0	--	--	--	--	< 500	--	--
MW-8	4/26/2004	8.52	2.89	NP	--	5.63	--	**100**	< 50	< 0.50	< 0.50	< 0.50	< 1.0	--	< 0.50	--	--	--	--	< 50	--	--
MW-8	7/22/2004	8.52	3.25	NP	--	5.27	--	**250**	< 50	< 0.5	< 0.5	< 0.5	< 1	--	< 0.5	--	--	--	--	< 1000	--	--
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	--	--
MW-8	1/10/2005	8.52	1.92	NP	--	6.60	--	**140**	**58**	< 0.50	**0.61**	**1.2**	**4.0**	--	< 0.50	--	--	--	--	< 50	--	--
MW-8	6/15/2005	8.52	2.22	NP	--	6.30	--	**140**	< 50	< 0.50	< 0.50	< 0.50	< 1.0	--	< 0.50	--	--	--	--	< 50	--	--
MW-8	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	< 0.50	< 10	< 250	--	--
MW-8	12/13/2005	8.52	2.89	NP	--	5.63	--	< 200	< 50	< 0.50	< 0.50	< 0.50	< 1.0	--	< 0.50	--	--	--	--	< 250	--	--
MW-8	3/23/2006	8.52	2.12	NP	--	6.40	--	< 200	< 50	< 0.50	< 0.50	< 0.50	< 1.0	--	< 0.50	--	--	--	--	< 250	--	--
MW-8	6/23/2006	8.52	2.65	NP	--	5.87	--	< 230	< 50	< 0.50	< 0.50	< 0.50	< 1.0	--	< 0.50	--	--	--	--	< 250	--	--
MW-8	9/26/2006	8.52	2.75	NP	--	5.77	--	**110**	< 50	< 0.50	< 0.50	< 0.50	< 0.50	--	< 0.50	--	--	--	--	< 250	--	--
MW-8	12/22/2006	8.52	2.58	NP	--	5.94	--	**100**	< 50	< 0.50	< 0.50	< 0.50	< 0.50	--	< 0.50	--	--	--	--	< 250	--	--
MW-8	3/30/2007	8.52	2.74	NP	--	5.78	--	**120**	< 50	< 0.50	< 0.50	< 0.50	< 0.50	--	< 0.50	--	--	--	--	< 250	--	--
MW-8	6/28/2007	8.52	2.90	NP	--	5.62	--	**140**	< 50	< 0.50	< 0.50	< 0.50	< 0.50	--	< 0.50	--	--	--	--	< 250	--	--
MW-8	9/25/2007	8.52	3.26	NP	--	5.26	--	**110**	< 50	< 0.50	< 0.50	< 0.50	< 0.50	--	< 0.50	--	--	--	--	< 250	--	--
MW-8	12/28/2007	8.52	2.64	NP	--	5.88	--	**110**	< 50	< 0.50	< 0.50	< 0.50	< 1.0	--	< 0.50	--	--	--	--	< 250	--	--
MW-8	3/22/2008	8.52	2.31	NP	--	6.21	--	< 50	< 50	< 0.50	< 0.50	< 0.50	< 1.0	--	< 0.50	--	--	--	--	< 250	--	--
MW-8	6/23/2008	8.52	3.13	NP	--	5.39	--	< 58	< 50	< 0.50	< 0.50	< 0.50	< 1.0	--	< 0.50	--	--	--	--	< 250	--	--
MW-8	9/19/2008	8.52	3.72	NP	--	4.80	--	**79**	< 50	< 0.50	< 0.50	< 0.50	< 1.0	--	< 0.50	--	--	--	--	< 250	--	--
MW-8	12/31/2008	8.52	2.98	NP	--	5.54	--	**110**	< 50	< 0.50	< 0.50	< 0.50	< 1.0	--	< 0.50	--	--	--	--	< 250	--	--
MW-8	3/27/2009	8.52	2.49	NP	--	6.03	--	**89**	< 50	< 0.50	< 0.50	< 0.50	< 1.0	--	< 0.50	--	--	--	--	< 250	--	--
MW-8	5/28/2009	8.52	3.12	NP	--	5.40	--	**91**	< 50	< 0.50	< 0.50	< 0.50	< 1.0	--	< 0.50	--	--	--	--	< 250	--	--
MW-8	9/17/2009	8.52	3.63	NP	--	4.89	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-8	3/29/2010	8.52	--	--	--	--	WI	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-8	6/30/2010	11.32	2.60	NP	--	8.72	--	**182**	< 50.0	< 0.50	< 0.50	< 0.50	< 1.5	--	< 0.50	--	--	--	--	< 250	--	--
MW-8	7/6/2010	11.32	3.03	NP	--	8.29	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-8	9/20/2010	11.32	3.33	NP	--	7.99	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-8	12/8/2010	11.32	2.82	NP	--	8.50	--	**116**	< 50.0	< 0.50	< 0.50	< 0.50	< 1.5	--	< 0.50	--	--	--	--	< 250	--	--
MW-8	3/14/2011	11.32	3.84	NP	--	7.48	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-8	6/2/2011	11.32	2.77	NP	--	8.55	--	**168**	< 50.0	< 0.50	< 0.50	< 0.50	< 1.5	--	< 0.50	--	--	--	< 5.0	< 250	--	--
MW-8	9/7/2011	11.32	2.84	NP	--	8.48	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-8	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	--	--
MW-8	3/6/2012	11.32	3.07	NP	--	8.25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-8	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	--	--
MW-8	9/6/2012	11.32	2.91	NP	--	8.41	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-8	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	--	--
MW-8	3/14/2013	11.32	3.19	NP	--	8.13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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-8	9/10/2013	11.32	3.54	NP	--	7.78	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-8	12/12/2013	11.32	2.80	NP	--	8.52	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-8	3/4/2014	11.32	2.88	NP	--	8.44	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-8	6/12/2014	11.32	3.24	NP	--	8.08	--	< 50	< 50	< 0.50	< 0.50	< 0.50	< 0.50	--	< 0.50	--	--	--	< 5.0	< 5.0	--	--
MW-8	1/1/2016	11.32	--	--	--	--	WD	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	2/21/1995	8.29	1.98	NP	--	6.31	--	**71**	**70**	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
MW-9	5/18/1995	8.29	3.47	NP	--	4.82	--	ND	**52**	ND	**1.1**	ND	**1.9**	--	--	--	--	--	--	--	--	--

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

Well I.D.	Date	GROUNDWATER ELEVATION DATA						GROUNDWATER ANALYTICAL DATA														
		TOC Elevation (ft)	Water Level Depth (ft)	LNAPL Depth (ft)	LNAPL Thickness (ft)	Water Level Elevation* (ft)	Qualifiers	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)	EDB (ug/L)	1,2-DCA (ug/L)
MW-9	8/17/1995	8.29	1.49	NP	--	6.80	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
MW-9	7/26/1996	8.29	0.28	NP	--	8.01	--	**98**	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
MW-9	10/28/1996	8.29	1.15	NP	--	7.14	--	**99**	ND	ND	ND	ND	ND	**7.6**	--	--	--	--	--	--	--	--
MW-9	1/29/1997	8.29	1.05	NP	--	7.24	--	**54**	ND	ND	ND	ND	ND	**5.4**	--	--	--	--	--	--	--	--
MW-9	4/15/1997	8.29	1.88	NP	--	6.41	--	**94**	ND	ND	ND	ND	ND	**5.4**	--	--	--	--	--	--	--	--
MW-9	5/27/1997	8.29	1.05	NP	--	7.24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	7/15/1997	8.29	1.90	NP	--	6.39	--	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
MW-9	10/9/1997	8.29	1.76	NP	--	6.53	--	**160**	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
MW-9	1/14/1998	8.29	1.26	NP	--	7.03	--	**110**	ND	ND	ND	ND	ND	**3.0**	--	--	--	--	--	--	--	--
MW-9	4/1/1998	8.29	0.85	NP	--	7.44	--	**110**	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
MW-9	7/15/1998	8.29	1.52	NP	--	6.77	--	**200**	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
MW-9	10/16/1998	8.29	0.81	NP	--	7.48	--	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
MW-9	1/25/1999	8.29	0.92	NP	--	7.37	--	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
MW-9	4/15/1999	8.29	0.90	NP	--	7.39	--	ND	**75**	**21**	ND	ND	**1.1**	**680**	--	--	--	--	--	--	--	--
MW-9	7/14/1999	8.29	1.04	NP	--	7.25	--	**140**	ND	**1.9**	ND	ND	ND	**260**	--	--	--	--	--	--	--	--
MW-9	10/21/1999	8.29	1.23	NP	--	7.06	--	**210**	ND	ND	ND	ND	ND	**170**	--	--	--	--	--	--	--	--
MW-9	1/20/2000	8.29	1.18	NP	--	7.11	--	**519**	ND	**1.1**	ND	ND	ND	**35**	--	--	--	--	--	--	--	--
MW-9	4/13/2000	8.29	1.08	NP	--	7.21	--	**81**	**160**	**0.64**	ND	ND	ND	**53**	--	--	--	--	--	--	--	--
MW-9	7/14/2000	8.29	1.43	NP	--	6.86	--	**107**	ND	ND	ND	ND	ND	**20.2**	--	--	--	--	--	--	--	--
MW-9	10/26/2000	8.29	1.38	NP	--	6.91	--	**240**	**240**	**2.9**	ND	ND	ND	**56**	--	--	--	--	--	--	--	--
MW-9	1/3/2001	8.29	1.66	NP	--	6.63	--	**164**	**166**	**0.763**	**0.776**	ND	**1.28**	**50.2**	--	--	--	--	--	--	--	--
MW-9	4/4/2001	8.29	1.27	NP	--	7.02	--	**240**	**296**	**0.738**	ND	ND	**0.907**	**135**	--	--	--	--	--	--	--	--
MW-9	7/17/2001	8.29	1.38	NP	--	6.91	--	ND	ND	ND	ND	ND	ND	**13**	--	--	--	--	--	--	--	--
MW-9	10/1/2001	8.29	1.93	NP	--	6.36	--	< 52	**51**	< 0.50	< 0.50	< 0.50	< 0.50	**5.0**	--	--	--	--	--	--	--	--
MW-9	1/31/2002	8.29	2.08	NP	--	6.21	--	**200**	< 50	< 0.50	< 0.50	< 0.50	< 0.50	**5.8**	--	--	--	--	--	--	--	--
MW-9	4/18/2002	8.29	1.76	NP	--	6.53	--	< 50	< 50	< 0.50	< 0.50	< 0.50	< 0.50	**5.1**	--	--	--	--	--	--	--	--
MW-9	7/28/2002	8.29	1.57	NP	--	6.72	--	< 50	< 50	< 0.50	< 0.50	< 0.50	< 1.0	--	**3.5**	--	--	--	--	--	--	--
MW-9	10/9/2002	8.29	1.45	NP	--	6.84	--	**100**	< 50	< 0.50	< 0.50	< 0.50	< 1.0	--	**17**	--	--	--	--	--	--	--
MW-9	1/2/2003	8.29	1.18	NP	--	7.11	--	< 50	< 50	< 0.50	< 0.50	< 0.50	< 1.0	--	**8.6**	--	--	--	--	--	--	--
MW-9	4/1/2003	8.29	2.04	NP	--	6.25	--	**56**	< 50	< 0.50	< 0.50	< 0.50	< 1.0	--	**9.4**	--	--	--	--	--	--	--
MW-9	7/1/2003	8.29	2.80	NP	--	5.49	--	< 50	< 50	< 0.50	< 0.50	< 0.50	< 1.0	--	**3.2**	--	--	--	--	< 500	--	--
MW-9	10/2/2003	8.29	2.70	NP	--	5.59	--	< 50	< 50	< 0.50	< 0.50	< 0.50	< 1.0	--	< 2.0	--	--	--	--	< 500	--	--
MW-9	1/9/2004	8.29	1.90	NP	--	6.39	--	**91**	**74**	< 0.50	**0.98**	**2.3**	**6.2**	--	< 2.0	--	--	--	--	< 500	--	--
MW-9	4/26/2004	8.29	1.62	NP	--	6.67	--	< 50	**51**	< 0.50	< 0.50	< 0.50	< 1.0	--	**0.51**	--	--	--	--	< 50	--	--
MW-9	7/22/2004	8.29	1.88	NP	--	6.41	--	< 200	< 50	< 0.5	< 0.5	< 0.5	< 1	--	**0.78**	--	--	--	--	< 1000	--	--
MW-9	10/29/2004	8.29	1.28	NP	--	7.01	--	**76**	< 50	< 0.50	< 0.50	< 0.50	**1.0**	--	< 0.50	--	--	--	--	< 50	--	--
MW-9	1/10/2005	8.29	0.07	NP	--	8.22	--	**77**	**93**	**0.60**	**2.3**	**2.4**	**9.0**	--	< 0.50	--	--	--	--	< 50	--	--
MW-9	6/15/2005	8.29	1.70	NP	--	6.59	--	**67**	< 50	< 0.50	< 0.50	< 0.50	< 1.0	--	**6.6**	--	--	--	--	< 50	--	--
MW-9	9/27/2005	8.29	1.98	NP	--	6.31	--	< 200	< 50	< 0.50	**0.73**	< 0.50	< 1.0	--	**2.3**	< 0.50	< 0.50	< 0.50	< 10	< 250	--	--
MW-9	12/13/2005	8.29	2.26	NP	--	6.03	--	< 200	< 50	< 0.50	< 0.50	< 0.50	< 1.0	--	**2.9**	--	--	--	--	< 250	--	--
MW-9	3/23/2006	8.29	1.32	NP	--	6.97	--	< 200	< 50	< 0.50	< 0.50	< 0.50	< 1.0	--	**2.7**	--	--	--	--	< 250	--	--
MW-9	6/23/2006	8.29	1.98	NP	--	6.31	--	< 200	< 50	< 0.50	< 0.50	< 0.50	< 1.0	--	**1.9**	--	--	--	--	< 250	--	--
MW-9	9/26/2006	8.29	2.52	NP	--	5.77	--	< 50	< 50	< 0.50	< 0.50	< 0.50	< 0.50	--	< 0.50	--	--	--	--	< 250	--	--
MW-9	12/22/2006	8.29	1.98	NP	--	6.31	--	**150**	< 50	< 0.50	**0.57**	**1.8**	**4.6**	--	**1.6**	--	--	--	--	< 250	--	--
MW-9	3/30/2007	8.29	2.01	NP	--	6.28	--	**72**	< 50	< 0.50	< 0.50	< 0.50	< 0.50	--	**3.4**	--	--	--	--	< 250	--	--
MW-9	6/28/2007	8.29	1.90	NP	--	6.39	--	**1000**	< 50	< 0.50	< 0.50	< 0.50	< 0.50	--	**4.9**	--	--	--	--	< 250	--	--
MW-9	9/25/2007	8.29	1.57	NP	--	6.72	--	**100**	< 50	< 0.50	< 0.50	< 0.50	< 0.50	--	< 0.50	--	--	--	--	< 250	--	--
MW-9	12/28/2007	8.29	1.98	NP	--	6.31	--	**56**	< 50	< 0.50	< 0.50	< 0.50	< 1.0	--	< 0.50	--	--	--	--	< 250	--	--
MW-9	3/22/2008	8.29	0.80	NP	--	7.49	--	< 50	< 50	< 0.50	< 0.50	< 0.50	< 1.0	--	**0.61**	--	--	--	--	< 250	--	--
MW-9	6/23/2008	8.29	1.80	NP	--	6.49	--	< 50	< 50	< 0.50	< 0.50	< 0.50	< 1.0	--	< 0.50	--	--	--	--	< 250	--	--
MW-9	9/19/2008	8.29	2.43	NP	--	5.86	--	**56**	< 50	< 0.50	< 0.50	< 0.50	< 1.0	--	**3.9**	--	--	--	--	< 250	--	--
MW-9	12/31/2008	8.29	2.66	NP	--	5.63	--	< 50	< 50	< 0.50	< 0.50	< 0.50	< 1.0	--	< 0.50	--	--	--	--	< 250	--	--
MW-9	3/27/2009	8.29	2.01	NP	--	6.28	--	< 50	< 50	< 0.50	< 0.50	< 0.50	< 1.0	--	< 0.50	--	--	--	--	< 250	--	--
MW-9	5/28/2009	8.29	2.20	NP	--	6.09	--	< 50	< 50	< 0.50	< 0.50	< 0.50	< 1.0	--	< 0.50	--	--	--	--	< 250	--	--
MW-9	9/17/2009	8.29	1.83	NP	--	6.46	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	12/17/2009	8.29	1.52	NP	--	6.77	--	**105**	< 50.0	< 0.50	< 0.50	< 0.50	< 1.5	--	< 0.50	--	--	--	--	< 250	--	--
MW-9	3/29/2010	8.29	2.21	NP	--	6.08	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	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	--	--
MW-9	7/6/2010	10.94	2.02	NP	--	8.92	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	9/20/2010	10.94	2.03	NP	--	8.91	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	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	--	--
MW-9	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	--	--
MW-9	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	--	--

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

Well I.D.	Date	GROUNDWATER ELEVATION DATA						GROUNDWATER ANALYTICAL DATA														
		TOC Elevation (ft)	Water Level Depth (ft)	LNAPL Depth (ft)	LNAPL Thickness (ft)	Water Level Elevation* (ft)	Qualifiers	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)	EDB (ug/L)	1,2-DCA (ug/L)
MW-9	9/7/2011	10.94	2.46	NP	--	8.48	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	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	--	--
MW-9	3/6/2012	10.94	3.03	NP	--	7.91	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	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	--	--
MW-9	9/6/2012	10.94	1.24	NP	--	9.70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	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	--	--
MW-9	3/14/2013	10.94	2.38	NP	--	8.56	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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-9	9/10/2013	10.94	2.63	NP	--	8.31	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	12/12/2013	10.94	1.78	NP	--	9.16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	3/4/2014	10.94	1.93	NP	--	9.01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	6/12/2014	10.94	2.39	NP	--	8.55	--	< 50	< 50	< 0.50	< 0.50	< 0.50	< 0.50	--	**3.3**	--	--	--	< 5.0	< 5.0	--	--
MW-9	9/5/2014	10.94	3.49	NP	--	7.45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	12/22/2014	10.94	1.58	NP	--	9.36	--	< 50	< 50	< 0.50	< 0.50	< 0.50	< 0.50	--	**5.2**	--	--	--	< 5.0	< 5.0	--	--
MW-9	3/16/2015	10.94	2.42	NP	--	8.52	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	6/11/2015	10.94	2.95	NP	--	7.99	--	< 50	< 100	< 1.0	< 2.0	< 2.0	--	--	**3.8**	--	--	--	< 20	< 200	--	--
MW-9	12/8/2015	10.94	3.09	NP	--	7.85	--	< 54	< 50	< 0.50	< 1.0	< 1.0	< 1.0	--	**4.6**	--	--	--	< 10	< 100	--	--
MW-9	3/8/2016	10.94	1.41	NP	--	9.53	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	6/28/2016	10.94	2.94	NP	--	8.00	--	**380**	< 50	< 0.50	< 1.0	< 1.0	--	--	**4.0**	--	--	--	< 10	< 100	--	--
MW-9	9/19/2016	10.94	2.28	NP	--	8.66	--	< 45	< 50	< 0.50	< 1.0	< 1.0	< 1.0	--	<2.0	--	--	--	< 10	< 100	--	--
MW-10	2/21/1995	8.62	4.69	NP	--	3.93	--	**270**	**1,500**	**250**	**26**	**9.1**	**160**	--	--	--	--	--	--	--	--	--
MW-10	5/18/1995	8.62	4.92	NP	--	3.70	--	**75**	**810**	**520**	ND	**18**	**23**	--	--	--	--	--	--	--	--	--
MW-10	8/17/1995	8.62	4.05	NP	--	4.57	--	ND	**67**	**25**	ND	**2.4**	ND	--	--	--	--	--	--	--	--	--
MW-10	7/26/1996	8.62	4.08	NP	--	4.54	--	ND	ND	**3.7**	ND	ND	ND	ND	--	--	--	--	--	--	--	--
MW-10	10/28/1996	8.62	4.09	NP	--	4.53	--	ND	ND	**1.1**	ND	ND	ND	ND	--	--	--	--	--	--	--	--
MW-10	1/29/1997	8.62	2.94	NP	--	5.68	--	ND	**210**	**41**	**0.67**	**7.2**	**4.8**	**11**	--	--	--	--	--	--	--	--
MW-10	4/15/1997	8.62	4.07	NP	--	4.55	--	ND	**110**	**12**	ND	**0.77**	ND	**9.7**	--	--	--	--	--	--	--	--
MW-10	5/27/1997	8.62	4.40	NP	--	4.22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-10	7/15/1997	8.62	4.19	NP	--	4.43	--	ND	ND	**2.1**	ND	**0.67**	**0.73**	ND	--	--	--	--	--	--	--	--
MW-10	10/9/1997	8.62	4.75	NP	--	3.87	--	ND	**190**	**38**	**0.92**	**6.6**	**7.6**	ND	--	--	--	--	--	--	--	--
MW-10	1/14/1998	8.62	2.66	NP	--	5.96	--	--	**59**	**9.5**	**0.85**	**1.2**	**1.7**	**4.5**	--	--	--	--	--	--	--	--
MW-10	4/1/1998	8.62	3.45	NP	--	5.17	--	**62**	**230**	**66**	**1.7**	**12**	**17**	**6.4**	--	--	--	--	--	--	--	--
MW-10	7/15/1998	8.62	4.21	NP	--	4.41	--	**78**	**290**	**98**	**45**	**21**	**38**	**21**	--	--	--	--	--	--	--	--
MW-10	10/16/1998	8.62	4.11	NP	--	4.51	--	ND	**160**	**44**	**0.96**	**2.5**	**10**	**17**	--	--	--	--	--	--	--	--
MW-10	1/25/1999	8.62	3.26	NP	--	5.36	--	ND	**140**	**27**	ND	**2.8**	**6.8**	**23**	--	--	--	--	--	--	--	--
MW-10	4/15/1999	8.62	3.63	NP	--	4.99	--	ND	**120**	**18**	ND	**1.8**	**5.1**	**14**	--	--	--	--	--	--	--	--
MW-10	7/14/1999	8.62	3.89	NP	--	4.73	--	**180**	**280**	**55**	**3.2**	**11**	**31**	**6.1**	--	--	--	--	--	--	--	--
MW-10	10/21/1999	8.62	4.09	NP	--	4.53	--	**96**	**140**	**22**	**0.59**	**1.7**	**7.7**	**5.3**	--	--	--	--	--	--	--	--
MW-10	1/20/2000	8.62	3.92	NP	--	4.70	--	**252**	ND	**0.73**	**0.86**	ND	ND	**5.2**	--	--	--	--	--	--	--	--
MW-10	4/13/2000	8.62	3.85	NP	--	4.77	--	**69**	**67**	**54**	ND	**2.6**	ND	**3.8**	--	--	--	--	--	--	--	--
MW-10	7/14/2000	8.62	4.18	NP	--	4.44	--	**149**	ND	**0.547**	ND	ND	ND	ND	--	--	--	--	--	--	--	--
MW-10	10/26/2000	8.62	3.96	NP	--	4.66	--	**83**	ND	**3.3**	ND	**0.83**	**1.5**	ND	--	--	--	--	--	--	--	--
MW-10	1/3/2001	8.62	4.14	NP	--	4.48	--	**126**	**52.7**	**5.15**	ND	**0.823**	**1.57**	ND	--	--	--	--	--	--	--	--
MW-10	4/4/2001	8.62	3.88	NP	--	4.74	--	**75**	**129**	**28.1**	**1.67**	**4.97**	**10.1**	ND	--	--	--	--	--	--	--	--
MW-10	7/17/2001	8.62	4.08	NP	--	4.54	--	ND	ND	**4.1**	ND	**1.0**	**1.8**	ND	--	--	--	--	--	--	--	--
MW-10	10/1/2001	8.62	4.22	NP	--	4.40	--	**100**	**140**	**30**	**0.51**	**4.0**	**12**	< 5.0	--	--	--	--	--	--	--	--
MW-10	1/31/2002	8.62	3.68	NP	--	4.94	--	**170**	**110**	**16**	< 0.50	**2.3**	**5.6**	< 2.5	--	--	--	--	--	--	--	--
MW-10	4/18/2002	8.62	4.01	NP	--	4.61	--	**130**	< 50	**11**	< 0.50	**1.4**	**4.5**	< 2.5	--	--	--	--	--	--	--	--
MW-10	7/28/2002	8.62	4.11	NP	--	4.51	--	**58**	**67**	**15**	< 0.50	**0.94**	**7.3**	--	< 2.0	--	--	--	--	--	--	--
MW-10	10/9/2002	8.62	3.97	NP	--	4.65	--	< 94	< 50	**0.67**	< 0.50	< 0.50	< 1.0	--	< 2.0	--	--	--	--	--	--	--
MW-10	1/2/2003	8.62	3.03	NP	--	5.59	--	**64**	< 50	< 0.50	< 0.50	< 0.50	< 1.0	--	< 2.0	--	--	--	--	--	--	--
MW-10	4/1/2003	8.62	3.83	NP	--	4.79	--	**76**	< 50	**11**	< 0.50	< 0.50	< 1.0	--	< 2.0	--	--	--	--	--	--	--
MW-10	7/1/2003	8.62	4.13	NP	--	4.49	--	**87**	< 50	< 0.50	< 0.50	< 0.50	< 1.0	--	< 2.0	--	--	--	--	< 500	--	--
MW-10	10/2/2003	8.62	4.05	NP	--	4.57	--	**160**	**77**	**9.9**	**0.78**	**2.3**	**4.9**	--	< 2.0	--	--	--	--	< 500	--	--
MW-10	1/9/2004	8.62	3.40	NP	--	5.22	--	**74**	**53**	**1.2**	< 0.50	**0.70**	**1.6**	--	< 2.0	--	--	--	--	< 500	--	--
MW-10	4/26/2004	8.62	3.89	NP	--	4.73	--	< 50	< 50	**2.8**	**1.3**	**1.0**	**2.9**	--	< 0.50	--	--	--	--	< 50	--	--
MW-10	7/22/2004	8.62	3.73	NP	--	4.89	--	< 200	< 50	< 0.5	< 0.5	< 0.5	< 1	--	< 0.5	--	--	--	--	< 1000	--	--
MW-10	10/29/2004	8.62	3.41	NP	--	5.21	--	< 50	**100**	**2.0**	**1.2**	**1.1**	**3.6**	--	< 0.50	--	--	--	--	< 50	--	--
MW-10	1/10/2005	8.62	2.68	NP	--	5.94	--	**94**	**84**	**7.8**	**2.7**	**2.2**	**8.9**	--	< 0.50	--	--	--	--	< 50	--	--
MW-10	6/15/2005	8.62	4.63	NP	--	3.99	--	**62**	< 50	< 0.50	< 0.50	< 0.50	< 1.0	--	< 0.50	--	--	--	--	< 50	--	--
MW-10	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	--	--
MW-10	12/13/2005	8.62	3.75	NP	--	4.87	--	< 200	< 50	< 0.50	< 0.50	< 0.50	< 1.0	--	< 0.50	--	--	--	--	< 250	--	--

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

Well I.D.	Date	GROUNDWATER ELEVATION DATA						GROUNDWATER ANALYTICAL DATA														
		TOC Elevation (ft)	Water Level Depth (ft)	LNAPL Depth (ft)	LNAPL Thickness (ft)	Water Level Elevation* (ft)	Qualifiers	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)	EDB (ug/L)	1,2-DCA (ug/L)
MW-10	3/23/2006	8.62	3.13	NP	--	5.49	--	< 200	**50**	**13**	< 0.50	< 0.50	< 1.0	--	< 0.50	--	--	--	--	< 250	--	--
MW-10	6/23/2006	8.62	3.90	NP	--	4.72	--	< 200	< 50	< 0.50	< 0.50	< 0.50	< 1.0	--	< 0.50	--	--	--	--	< 250	--	--
MW-10	9/26/2006	8.62	3.66	NP	--	4.96	--	< 50	< 50	< 0.50	< 0.50	< 0.50	< 0.50	--	< 0.50	--	--	--	--	< 250	--	--
MW-10	12/22/2006	8.62	3.56	NP	--	5.06	--	**81**	< 50	< 0.50	< 0.50	< 0.50	**1.8**	--	< 0.50	--	--	--	--	< 250	--	--
MW-10	3/30/2007	8.62	3.93	NP	--	4.69	--	**82**	< 50	< 0.50	< 0.50	< 0.50	< 0.50	--	< 0.50	--	--	--	--	< 250	--	--
MW-10	6/28/2007	8.62	4.03	NP	--	4.59	--	**57**	< 50	< 0.50	< 0.50	< 0.50	< 0.50	--	< 0.50	--	--	--	--	< 250	--	--
MW-10	9/25/2007	8.62	3.91	NP	--	4.71	--	**82**	< 50	< 0.50	< 0.50	< 0.50	< 0.50	--	< 0.50	--	--	--	--	< 250	--	--
MW-10	12/28/2007	8.62	3.64	NP	--	4.98	--	**62**	< 50	**2.1**	< 0.50	< 0.50	< 1.0	--	< 0.50	--	--	--	--	< 250	--	--
MW-10	3/22/2008	8.62	4.00	NP	--	4.62	--	< 50	**64**	**13**	< 0.50	< 0.50	< 1.0	--	< 0.50	--	--	--	--	< 250	--	--
MW-10	6/23/2008	8.62	3.90	NP	--	4.72	--	< 50	**94**	**30**	**0.53**	**3.4**	**3.5**	--	< 0.50	--	--	--	--	< 250	--	--
MW-10	9/19/2008	8.62	3.85	NP	--	4.77	--	< 50	**130**	**15**	**1.7**	**5.7**	**11**	--	< 0.50	--	--	--	--	< 250	--	--
MW-10	12/31/2008	8.62	3.69	NP	--	4.93	--	< 50	**82**	**11**	< 0.50	**0.81**	**1.7**	--	< 0.50	--	--	--	--	< 250	--	--
MW-10	3/27/2009	8.62	3.75	NP	--	4.87	--	**730**	**210**	**28**	**1.4**	**1.2**	**3.9**	--	< 0.50	--	--	--	--	< 250	--	--
MW-10	5/28/2009	8.62	3.66	NP	--	4.96	--	< 50	< 50	**0.91**	< 0.50	< 0.50	< 1.0	--	< 0.50	--	--	--	--	< 250	--	--
MW-10	9/17/2009	8.62	3.85	NP	--	4.77	--	**65**	< 50	< 0.50	< 0.50	< 0.50	< 1.0	--	< 0.50	--	--	--	--	< 250	--	--
MW-10	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	--	--
MW-10	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	--	--
MW-10	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	--	--
MW-10	7/6/2010	10.97	3.73	NP	--	7.24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-10	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	--	--
MW-10	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	--	--
MW-10	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	--	--
MW-10	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	--	--
MW-10	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	--	--
MW-10	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	--	--
MW-10	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	--	--
MW-10	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	--	--
MW-10	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
MW-10	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	--	--
MW-10	3/14/2013	10.97	4.00	NP	--	6.97	--	< 50	**86**	**25**	< 0.50	**0.56**	**0.80**	--	< 0.50	--	--	--	< 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-10	9/10/2013	10.97	3.92	NP	--	7.05	--	< 50	< 50	< 0.50	< 0.50	< 0.50	**1.2**	--	< 0.50	--	--	--	< 5.0	< 5.0	--	--
MW-10	12/12/2013	10.97	3.85	NP	--	7.12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-10	3/4/2014	10.97	3.38	NP	--	7.59	--	< 50	< 50	**1.5**	< 0.50	< 0.50	< 0.50	--	< 0.50	--	--	--	< 5.0	< 5.0	--	--
MW-10	6/1/2014	10.97	--	--	--	--	WD	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-10	6/12/2014	10.97	3.92	NP	--	7.05	--	< 50	< 50	**4.4**	< 0.50	< 0.50	**0.91**	--	< 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
MW-11	9/20/2010	10.53	2.80	NP	--	7.73	--	< 50.0	**76.4**	< 0.50	< 0.50	< 0.50	< 1.5	--	**82.7**	--	--	--	--	< 250	--	--
MW-11	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	--	--
MW-11	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	--	--
MW-11	6/2/2011	10.53	1.75	NP	--	8.78	--	**69.0**	< 50.0	< 0.50	**0.61**	< 0.50	< 1.5	--	**24.9**	--	--	--	**7.1**	< 250	--	--
MW-11	9/7/2011	10.53	1.56	NP	--	8.97	--	< 50.0	< 50.0	< 0.50	< 0.50	< 0.50	< 1.5	--	**3.8**	--	--	--	--	< 250	--	--
MW-11	12/5/2011	10.53	2.05	NP	--	8.48	--	< 50.0	< 50.0	< 0.50	< 0.50	< 0.50	< 1.5	--	**26.4**	--	--	--	--	< 250	--	--
MW-11	3/6/2012	10.53	2.31	NP	--	8.22	--	< 50.0	< 50.0	< 0.50	< 0.50	< 0.50	< 1.5	--	**35.3**	--	--	--	**5.7**	< 250	--	--
MW-11	6/11/2012	10.53	2.24	NP	--	8.29	--	< 37.9	< 50.0	< 0.50	< 0.50	< 0.50	< 1.5	--	**20.9**	--	--	--	**10.4**	< 250	--	--
MW-11	9/6/2012	10.53	1.70	NP	--	8.83	--	**64**	< 50	< 0.50	< 0.50	< 0.50	< 0.50	--	**7.7**	< 0.50	< 0.50	< 0.50	< 5.0	< 5.0	< 0.50	< 0.50
MW-11	12/13/2012	10.53	1.56	NP	--	8.97	--	< 50	< 50	< 0.50	< 0.50	< 0.50	< 0.50	--	**27**	--	--	--	< 5.0	< 5.0	--	--
MW-11	3/14/2013	10.53	2.20	NP	--	8.33	--	< 50	< 50	< 0.50	< 0.50	< 0.50	< 0.50	--	**20**	--	--	--	< 5.0	< 5.0	--	--
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-11	9/10/2013	10.53	2.98	NP	--	7.55	--	< 50	< 50	< 0.50	< 0.50	< 0.50	< 0.50	--	**22**	--	--	--	< 5.0	< 5.0	--	--
MW-11	12/12/2013	10.53	2.20	NP	--	8.33	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-11	3/4/2014	10.53	1.75	NP	--	8.78	--	< 50	< 50	< 0.50	< 0.50	< 0.50	< 0.50	--	**12**	--	--	--	< 5.0	< 5.0	--	--
MW-11	6/12/2014	10.53	2.51	NP	--	8.02	--	< 50	< 50	< 0.50	< 0.50	< 0.50	< 0.50	--	**3.7**	--	--	--	< 5.0	< 5.0	--	--
MW-11	9/5/2014	10.53	3.27	NP	--	7.26	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-11	12/22/2014	10.53	1.53	NP	--	9.00	--	< 50	< 50	< 0.50	< 0.50	< 0.50	< 0.50	--	**37**	--	--	--	< 5.0	< 5.0	--	--
MW-11	3/16/2015	10.53	2.40	NP	--	8.13	--	--	--	< 0.50	< 0.50	< 0.50	< 1.0	--	**19.6**	--	--	--	< 5.0	< 5.0	--	--
MW-11	6/11/2015	10.53	2.87	NP	--	7.66	--	< 50	**56**	< 0.50	< 1.0	< 1.0	--	--	**8.2**	--	--	--	< 10	< 100	--	--
MW-11	9/9/2015	10.53	3.58	NP	--	6.95	--	< 54	< 50	< 0.50	< 1.0	< 1.0	< 1.0	--	**14**	--	--	--	< 10	< 100	--	--
MW-11	12/8/2015	10.53	3.32	NP	--	7.21	--	< 52	< 50	< 0.50	< 1.0	< 1.0	< 1.0	--	**24**	--	--	--	< 10	< 100	--	--
MW-11	3/8/2016	10.53	1.90	NP	--	8.63	--	**52 HD**	< 50	< 0.50	< 1.0	< 1.0	< 1.0	--	**12**	--	--	--	< 10	< 100	--	--
MW-11	6/29/2016	10.53	3.39	NP	--	7.14	--	**350**	< 50	< 0.50	< 1.0	< 1.0	--	--	**8.6**	--	--	--	< 10	< 100	--	--
MW-11	9/19/2016	10.53	2.84	NP	--	7.69	--	**170 HD**	< 50	< 0.50	< 1.0	< 1.0	<1.0	--	**7.6**	--	--	--	< 10	< 100	--	--

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76 STATION NO. 5191/5043
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Well I.D.	Date	GROUNDWATER ELEVATION DATA						GROUNDWATER ANALYTICAL DATA														
		TOC Elevation (ft)	Water Level Depth (ft)	LNAPL Depth (ft)	LNAPL Thickness (ft)	Water Level Elevation* (ft)	Qualifiers	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)	EDB (ug/L)	1,2-DCA (ug/L)
MW-12	7/6/2010	11.01	4.00	NP	--	7.01	--	**990**	**20,300**	**1,030**	**955**	**311**	**2,450**	--	**1,650**	< 0.50	< 0.50	**1.0**	**1,430**	< 250	< 1.0	< 1.0
MW-12	9/20/2010	11.01	4.18	NP	--	6.83	--	**5,220**	**73,700**	**6,020**	**6,390**	**2,970**	**18,300**	--	**894**	--	--	--	--	< 250	--	--
MW-12	12/8/2010	11.01	3.92	NP	--	7.09	--	**428**	**3,350**	**249**	**117**	**89.8**	**558**	--	**1,470**	--	--	--	--	< 2500	--	--
MW-12	3/14/2011	11.01	3.70	NP	--	7.31	--	**283**	**2,420**	**287**	**80.9**	**49.1**	**243**	--	**1,020**	--	--	--	**69.6**	< 250	--	--
MW-12	6/2/2011	11.01	4.40	NP	--	6.61	--	**1,330**	**12,200**	**688**	**70.5**	**225**	**619**	--	**824**	--	--	--	**110**	< 250	--	--
MW-12	9/7/2011	11.01	4.37	NP	--	6.64	--	**1,270**	**7,900**	**920**	**25.4**	**187**	**267**	--	**896**	--	--	--	--	< 2500	--	--
MW-12	12/5/2011	11.01	4.32	NP	--	6.69	--	**286**	**2,240**	**296**	**38.3**	**38.0**	**122**	--	**1,040**	--	--	--	--	< 250	--	--
MW-12	3/6/2012	11.01	4.01	NP	--	7.00	--	**272**	**1,260**	**193**	**22.6**	**28.8**	**80.5**	--	**835**	--	--	--	**78.4**	< 250	--	--
MW-12	6/11/2012	11.01	4.20	NP	--	6.81	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-12	6/12/2012	--	--	--	--	--	--	**957**	**1,030**	**178**	**17.0**	**24.1**	**68.8**	--	**993**	--	--	--	**448**	< 250	--	--
MW-12	9/6/2012	11.01	4.15	NP	--	6.86	--	< 200	**580**	**120**	**9.6**	**15**	**37**	--	**840**	< 1.5	< 1.5	< 1.5	**15**	< 15	< 1.5	**14**
MW-12	12/13/2012	11.01	3.35	NP	--	7.66	--	< 50	**480**	**70**	**4.6**	**7.2**	**19**	--	**820**	--	--	--	**19**	< 15	--	--
MW-12	3/14/2013	11.01	4.11	NP	--	6.90	--	< 50	**370**	**76**	**3.4**	**12**	**18**	--	**810**	--	--	--	**21**	< 15	--	--
MW-12	6/11/2013	11.01	4.30	NP	--	6.71	--	**62**	**290**	**51**	< 1.5	**4.3**	**6.4**	--	**840**	--	--	--	**19**	< 15	--	--
MW-12	9/10/2013	11.01	3.96	NP	--	7.05	--	< 50	**340**	**52**	**1.9**	**6.4**	**4.5**	--	**820**	--	--	--	**17**	< 15	--	--
MW-12	12/12/2013	11.01	4.00	NP	--	7.01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-12	3/4/2014	11.01	3.46	NP	--	7.55	--	< 50	< 200	**19**	< 2.0	< 2.0	< 2.0	--	**990**	--	--	--	< 9.0	< 20	< 2.0	**11**
MW-12	6/1/2014	11.01	--	--	--	--	WD	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-12	6/12/2014	11.01	3.96	NP	--	7.05	--	< 50	**200**	**30**	**3.3**	**4.2**	**6.1**	--	**920**	--	--	--	**8.6**	< 9.0	--	--
MW-12A	7/6/2010	11.29	4.22	NP	--	7.07	--	**89.3**	**664**	**18.3 M0**	**0.78**	**2.3**	**50.2 M0**	--	**14.3 M0**	< 0.50	< 0.50	< 0.50	**11.9 M0**	< 250	< 1.0	< 1.0
MW-12A	9/20/2010	11.29	4.39	NP	--	6.90	--	< 50.0	< 50.0	< 0.50	< 0.50	< 0.50	< 1.5	--	**8.5**	--	--	--	--	< 250	--	--
MW-12A	12/8/2010	11.29	4.00	NP	--	7.29	--	**76.4**	< 50.0	< 0.50	< 0.50	< 0.50	< 1.5	--	**9.4**	--	--	--	--	< 250	--	--
MW-12A	3/14/2011	11.29	3.81	NP	--	7.48	--	**61.5**	< 50.0	< 0.50	< 0.50	< 0.50	< 1.5	--	< 0.50	--	--	--	< 5.0	< 250	--	--
MW-12A	6/2/2011	11.29	4.20	NP	--	7.09	--	< 50.0	< 50.0	< 0.50	< 0.50	< 0.50	< 1.5	--	< 0.50	--	--	--	< 5.0	< 250	--	--
MW-12A	9/7/2011	11.29	4.42	NP	--	6.87	--	< 50.0	< 50.0	< 0.50	< 0.50	< 0.50	< 1.5	--	**0.74**	--	--	--	--	< 250	--	--
MW-12A	12/5/2011	11.29	4.30	NP	--	6.99	--	< 50.0	< 50.0	< 0.50	< 0.50	< 0.50	< 1.5	--	< 0.50	--	--	--	--	< 250	--	--
MW-12A	3/6/2012	11.29	4.32	NP	--	6.97	--	**52.0**	< 50.0	< 0.50	< 0.50	< 0.50	< 1.5	--	< 0.50	--	--	--	< 5.0	< 250	--	--
MW-12A	6/11/2012	11.29	4.36	NP	--	6.93	--	< 37.9	< 50.0	< 0.50	< 0.50	< 0.50	< 1.5	--	< 0.50	--	--	--	< 5.0	< 250	--	--
MW-12A	9/6/2012	11.29	4.45	NP	--	6.84	--	**300**	< 50	< 0.50	< 0.50	< 0.50	< 0.50	--	< 0.50	< 0.50	< 0.50	< 0.50	< 5.0	< 5.0	< 0.50	< 0.50
MW-12A	12/13/2012	11.29	3.80	NP	--	7.49	--	**62**	< 50	< 0.50	< 0.50	< 0.50	< 0.50	--	< 0.50	--	--	--	< 5.0	< 5.0	--	--
MW-12A	3/14/2013	11.29	4.36	NP	--	6.93	--	< 50	< 50	< 0.50	< 0.50	< 0.50	< 0.50	--	< 0.50	--	--	--	< 5.0	< 5.0	--	--
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-12A	9/10/2013	11.29	4.40	NP	--	6.89	--	< 50	< 50	< 0.50	< 0.50	< 0.50	< 0.50	--	**6.3**	--	--	--	< 5.0	< 5.0	--	--
MW-12A	12/12/2013	11.29	4.35	NP	--	6.94	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-12A	3/4/2014	11.29	3.73	NP	--	7.56	--	< 50	< 50	< 0.50	< 0.50	< 0.50	< 0.50	--	< 0.50	--	--	--	< 5.0	< 5.0	--	--
MW-12A	6/1/2014	11.29	--	--	--	--	WD	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-12A	6/12/2014	11.29	4.37	NP	--	6.92	--	< 50	< 50	< 0.50	< 0.50	< 0.50	< 0.50	--	< 0.50	--	--	--	< 5.0	< 5.0	--	--
MW-13	7/6/2010	11.08	4.26	NP	--	6.82	--	**469**	**122**	< 0.50	< 0.50	< 0.50	< 1.5	--	**217**	< 0.50	< 0.50	< 0.50	**199**	< 250	< 1.0	< 1.0
MW-13	9/20/2010	11.08	4.81	NP	--	6.27	--	< 50.0	**250**	< 0.50	< 0.50	< 0.50	< 1.5	--	**272**	--	--	--	--	< 250	--	--
MW-13	12/8/2010	11.08	5.02	NP	--	6.06	--	**97.0**	**177**	< 0.50	< 0.50	< 0.50	< 1.5	--	**390**	--	--	--	--	< 250	--	--
MW-13	3/14/2011	11.08	4.32	NP	--	6.76	--	**162**	**127**	< 0.50	< 0.50	< 0.50	< 1.5	--	**241**	--	--	--	**125**	< 250	--	--
MW-13	6/2/2011	11.08	3.98	NP	--	7.10	--	**89.9**	**260**	< 0.50	< 0.50	< 0.50	< 1.5	--	**228**	--	--	--	**44.7**	< 250	--	--
MW-13	9/7/2011	11.08	5.74	NP	--	5.34	--	< 50.0	**167**	< 0.50	< 0.50	< 0.50	< 1.5	--	**207**	--	--	--	--	< 250	--	--
MW-13	12/5/2011	11.08	5.00	NP	--	6.08	--	< 50.0	**166**	< 0.50	< 0.50	< 0.50	< 1.5	--	**215**	--	--	--	--	< 250	--	--
MW-13	3/6/2012	11.08	5.37	NP	--	5.71	--	< 50.0	**63.9**	< 0.50	< 0.50	< 0.50	< 1.5	--	**110**	--	--	--	**38.5**	< 250	--	--
MW-13	6/11/2012	11.08	5.73	NP	--	5.35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-13	6/12/2012	--	--	--	--	--	--	< 37.9	**118**	< 0.50	< 0.50	< 0.50	< 1.5	--	**220**	--	--	--	**81.7**	< 250	--	--
MW-13	9/6/2012	11.08	4.14	NP	--	6.94	--	**87**	< 50	< 0.50	< 0.50	< 0.50	< 0.50	--	**140**	< 0.50	< 0.50	< 0.50	**10**	< 5.0	< 0.50	< 0.50
MW-13	12/13/2012	11.08	3.80	NP	--	7.28	--	< 50	< 50	< 0.50	< 0.50	< 0.50	< 0.50	--	**130**	--	--	--	**14**	< 5.0	--	--
MW-13	3/14/2013	11.08	4.20	NP	--	6.88	--	< 50	< 50	< 0.50	< 0.50	< 0.50	< 0.50	--	**110**	--	--	--	**24**	< 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-13	9/10/2013	11.08	4.20	NP	--	6.88	--	< 50	< 50	< 0.50	< 0.50	< 0.50	**0.62**	--	**64**	--	--	--	**47**	< 5.0	--	--
MW-13	12/12/2013	11.08	4.05	NP	--	7.03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-13	3/4/2014	11.08	3.51	NP	--	7.57	--	< 50	< 50	< 0.50	< 0.50	< 0.50	< 0.50	--	**54**	--	--	--	**30**	< 5.0	--	--
MW-13	6/12/2014	11.08	4.08	NP	--	7.00	--	< 50	< 50	< 0.50	< 0.50	< 0.50	< 0.50	--	**36**	--	--	--	**43**	< 5.0	--	--
MW-13	9/5/2014	11.08	4.23	NP	--	6.85	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-13	12/22/2014	11.08	3.07	NP	--	8.01	--	< 50	< 50	< 0.50	< 0.50	< 0.50	< 0.50	--	**28**	--	--	--	**39**	< 5.0	--	--
MW-13	3/16/2015	11.08	3.97	NP	--	7.11	--	--	--	< 0.50	< 0.50	< 0.50	< 1.0	--	**27.7**	--	--	--	**35.5**	< 5.0	--	--
MW-13	6/11/2015	11.08	3.86	NP	--	7.22	--	< 50	< 250	< 2.5	< 5.0	< 5.0	--	--	**20**	--	--	--	< 50	< 500	--	--
MW-13	9/9/2015	11.08	4.48	NP	--	6.60	--	< 52	< 50	**0.84**	< 1.0	< 1.0	< 1.0	--	**17**	--	--	--	**38**	< 100	--	--

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

Well I.D.	Date	GROUNDWATER ELEVATION DATA						GROUNDWATER ANALYTICAL DATA													
		TOC Elevation (ft)	Water Level Depth (ft)	LNAPL Depth (ft)	LNAPL Thickness (ft)	Water Level Elevation* (ft)	Qualifiers	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)	EDB (ug/L)	1,2-DCA (ug/L)
MW-13	12/8/2015	11.08	4.13	NP	--	6.95	--	< 52	< 50	< 0.50	< 1.0	< 1.0	< 1.0	--	**14**	--	--	--	< 10	< 100	--	--
MW-13	3/8/2016	11.08	3.03	NP	--	8.05	--	< 46	**70**	< 0.50	< 1.0	< 1.0	< 1.0	--	**14**	--	--	--	**54**	< 100	--	--
MW-13	6/28/2016	11.08	4.28	NP	--	6.80	--	**190**	< 50	**0.62**	< 1.0	< 1.0	--	--	**23**	--	--	--	**85**	< 100	--	--
MW-13	9/19/2016	11.08	4.12	NP	--	6.96	--	< 45	< 50	< 0.50	< 1.0	< 1.0	<1.0	--	**20**	--	--	--	**30**	< 100	--	--
MW-14	6/2/2011	12.00	3.58	NP	--	8.42	--	**4,180**	**51,600**	**2,750**	**67.9**	**1,790**	**13,400**	--	**1.9**	--	--	--	**27.2**	< 250	--	--
MW-14	9/7/2011	12.00	3.02	NP	--	8.98	--	**2,970**	**42,600**	**1,050**	**28.1**	**2,990**	**7,300**	--	< 25.0	--	--	--	--	< 12500	--	--
MW-14	12/5/2011	12.00	4.05	NP	--	7.95	--	**3,980**	**14,000**	**709**	**9.1**	**1,420**	**2,530**	--	**0.97**	--	--	--	--	< 250	--	--
MW-14	3/6/2012	12.00	3.94	NP	--	8.06	--	**3,640**	**16,600**	**959**	**15.0**	**2,330**	**3,830**	--	< 2.5	--	--	--	**28.1**	< 1250	--	--
MW-14	6/11/2012	12.00	3.91	NP	--	8.09	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-14	6/12/2012	--	--	--	--	--	--	**4580**	**15,700**	**1,200**	**14.0**	**1,580**	**3,010**	--	**1.4**	--	--	--	**23.3**	< 250	--	--
MW-14	9/6/2012	12.00	3.35	NP	--	8.65	--	< 2,000	**12,000**	**210**	**9.1**	**1,100**	**1,800**	--	< 4.0	< 4.0	< 4.0	< 4.0	< 20	< 40	< 4.0	< 4.0
MW-14	12/13/2012	12.00	3.26	NP	--	8.74	--	< 50	**10,000**	**72**	**5.8**	**610**	**780**	--	< 1.5	--	--	--	< 7.0	< 15	--	--
MW-14	3/14/2013	12.00	4.16	NP	--	7.84	--	< 50	**5,700**	**290**	**11**	**750**	**960**	--	< 1.5	--	--	--	**12**	< 15	--	--
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-14	9/10/2013	12.00	4.88	NP	--	7.12	--	**120**	**31,000**	**1,500**	**39**	**2,300**	**5,200**	--	< 1.5	--	--	--	**32**	< 15	--	--
MW-14	12/12/2013	12.00	4.35	NP	--	7.65	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-14	3/4/2014	12.00	3.60	NP	--	8.40	--	**250**	**40,000**	**1,600**	**41**	**2,900**	**6,700**	--	< 9.0	--	--	--	< 50	< 90	--	--
MW-14	6/12/2014	12.00	4.51	NP	--	7.49	--	**64**	**36,000**	**1,600**	**43**	**3,000**	**6,500**	--	< 9.0	--	--	--	< 50	< 90	--	--
MW-14	9/5/2014	12.00	5.47	NP	--	6.53	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-14	12/22/2014	12.00	3.18	NP	--	8.82	--	< 50	**3,200**	**220**	**3.8**	**260**	**540**	--	< 0.90	--	--	--	**12**	< 9.0	--	--
MW-14	3/16/2015	12.00	4.18	NP	--	7.82	--	--	--	**393**	**1.6**	**278**	**413**	--	**0.66**	--	--	--	**15.0**	< 5.0	--	--
MW-14	6/11/2015	12.00	4.74	NP	--	7.26	--	**1,800**	**3,900**	**510**	< 5.0	**340**	--	--	< 5.0	--	--	--	< 50	< 500	--	--
MW-15	6/2/2011	11.11	2.50	NP	--	8.61	--	**124**	**357**	< 0.50	< 0.50	< 0.50	< 1.5	--	**15.2**	--	--	--	**6.4**	< 250	--	--
MW-15	9/7/2011	11.11	2.54	NP	--	8.57	--	< 50.0	**412**	**6.2**	< 0.50	**42.8**	< 1.5	--	**128**	--	--	--	--	< 250	--	--
MW-15	12/5/2011	11.11	2.70	NP	--	8.41	--	**50.5**	**201**	**6.6**	< 0.50	**0.93**	< 1.5	--	**142**	--	--	--	--	< 250	--	--
MW-15	3/6/2012	11.11	2.69	NP	--	8.42	--	**56.2**	< 50.0	< 0.50	< 0.50	< 0.50	< 1.5	--	**106**	--	--	--	**101**	< 250	--	--
MW-15	6/11/2012	11.11	2.84	NP	--	8.27	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-15	6/12/2012	--	--	--	--	--	--	< 37.9	**74.3**	< 0.50	< 0.50	< 0.50	< 1.5	--	**114**	--	--	--	**90.9**	< 250	--	--
MW-15	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
MW-15	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	--	--
MW-15	3/14/2013	11.11	2.91	NP	--	8.20	--	< 50	< 50	< 0.50	< 0.50	< 0.50	< 0.50	--	**46**	--	--	--	**21**	< 5.0	--	--
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-15	9/10/2013	11.11	3.28	NP	--	7.83	--	< 50	**68**	< 0.50	< 0.50	< 0.50	< 0.50	--	**120**	--	--	--	**39**	< 5.0	--	--
MW-15	12/12/2013	11.11	3.00	NP	--	8.11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-15	3/4/2014	11.11	2.34	NP	--	8.77	--	< 50	< 50	< 0.50	< 0.50	< 0.50	< 0.50	--	**96**	--	--	--	**45**	< 5.0	--	--
MW-15	6/12/2014	11.11	3.15	NP	--	7.96	--	< 50	< 50	< 0.50	< 0.50	< 0.50	< 0.50	--	**100**	--	--	--	**31**	< 5.0	--	--
MW-15	9/5/2014	11.11	4.00	NP	--	7.11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-15	12/22/2014	11.11	2.38	NP	--	8.73	--	< 50	< 50	**0.50**	< 0.50	< 0.50	< 0.50	--	**65**	--	--	--	**36**	< 5.0	--	--
MW-15	3/16/2015	11.11	3.17	NP	--	7.94	--	--	--	< 0.50	< 0.50	< 0.50	< 1.0	--	**46.7**	--	--	--	**27.0**	< 5.0	--	--
MW-15	6/11/2015	11.11	3.47	NP	--	7.64	--	< 50	**94**	< 0.50	< 1.0	< 1.0	--	--	**46**	--	--	--	**15**	< 100	--	--
MW-15	9/9/2015	11.11	4.03	NP	--	7.08	--	< 52	**150**	< 0.50	< 1.0	< 1.0	< 1.0	--	**75**	--	--	--	**36**	< 100	--	--
MW-15	12/8/2015	11.11	3.04	NP	--	8.07	--	< 50	< 50	< 0.50	< 1.0	< 1.0	< 1.0	--	**82**	--	--	--	**34**	< 100	--	--
MW-15	3/8/2016	11.11	2.71	NP	--	8.40	--	< 48	< 50	< 0.50	< 1.0	< 1.0	< 1.0	--	**38**	--	--	--	**31**	< 100	--	--
MW-15	6/29/2016	11.11	3.64	NP	--	7.47	--	< 45	< 50	< 0.50	< 1.0	< 1.0	--	--	**51**	--	--	--	**30**	< 100	--	--
MW-15	9/19/2016	11.11	3.50	NP	--	7.61	--	< 45	< 50	< 0.50	< 1.0	< 1.0	< 1.0	--	**47**	--	--	--	**35**	< 100	--	--
MW-16	6/2/2011	10.98	3.00	NP	--	7.98	--	**509**	**1,420**	**79.4**	< 0.50	**4.2**	< 1.5	--	**1,200**	--	--	--	**257**	< 250	--	--
MW-16	9/7/2011	10.98	2.65	NP	--	8.33	--	**90.0**	**934**	< 0.50	< 0.50	< 0.50	< 1.5	--	**1,240**	--	--	--	--	< 250	--	--
MW-16	12/5/2011	10.98	3.18	NP	--	7.80	--	**196**	**948**	< 0.50	< 0.50	< 0.50	< 1.5	--	**1,320**	--	--	--	--	< 250	--	--
MW-16	3/6/2012	10.98	2.91	NP	--	8.07	--	**204**	**392**	< 0.50	< 0.50	< 0.50	< 1.5	--	**1,090**	--	--	--	**134**	< 250	--	--
MW-16	6/11/2012	10.98	3.04	NP	--	7.94	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-16	6/12/2012	--	--	--	--	--	--	**48.1**	**430**	< 0.50	< 0.50	< 0.50	< 1.5	--	**1,100**	--	--	--	**374**	< 250	--	--
MW-16	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
MW-16	12/13/2012	10.98	2.50	NP	--	8.48	--	**52**	< 150	< 1.5	< 1.5	< 1.5	< 1.5	--	**980**	--	--	--	**55**	< 20	--	--
MW-16	3/14/2013	10.98	3.15	NP	--	7.83	--	< 50	< 200	< 2.0	< 2.0	< 2.0	< 2.0	--	**950**	--	--	--	**67**	< 20	--	--
MW-16	6/11/2013	10.98	3.18	NP	--	7.80	--	< 50	< 150	< 1.5	< 1.5	< 1.5	< 1.5	--	**820**	--	--	--	**70**	< 15	--	--
MW-16	9/10/2013	10.98	3.44	NP	--	7.54	--	< 50	< 50	< 0.50	< 0.50	< 0.50	**0.67**	--	**240**	--	--	--	**440**	< 5.0	--	--
MW-16	12/12/2013	10.98	2.90	NP	--	8.08	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-16	3/4/2014	10.98	3.25	NP	--	7.73	--	< 50	**60**	< 0.50	< 0.50	< 0.50	< 0.50	--	**440**	--	--	--	**400**	< 5.0	--	--
MW-16	6/12/2014	10.98	3.67	NP	--	7.31	--	< 50	< 50	< 0.50	< 0.50	< 0.50	< 0.50	--	**92**	--	--	--	**440**	< 5.0	--	--
MW-16	9/5/2014	10.98	3.70	NP	--	7.28	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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

Well I.D.	Date	GROUNDWATER ELEVATION DATA						GROUNDWATER ANALYTICAL DATA													
		TOC Elevation (ft)	Water Level Depth (ft)	LNAPL Depth (ft)	LNAPL Thickness (ft)	Water Level Elevation* (ft)	Qualifiers	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)	EDB (ug/L)	1,2-DCA (ug/L)
MW-16	12/22/2014	10.98	3.11	NP	--	7.87	--	< 50	< 50	**0.52**	< 0.50	< 0.50	< 0.50	--	**23**	--	--	--	**140**	< 5.0	--	--
MW-16	3/16/2015	10.98	3.03	NP	--	7.95	--	--	--	< 0.50	< 0.50	< 0.50	< 1.0	--	**9.2**	--	--	--	**185**	< 5.0	--	--
MW-16	6/11/2015	10.98	3.62	NP	--	7.36	--	< 50	< 250	< 2.5	< 5.0	< 5.0	--	--	**5.1**	--	--	--	**130**	< 500	--	--
MW-16	9/9/2015	10.98	3.98	NP	--	7.00	--	< 50	< 50	< 0.5	< 1.0	< 1.0	< 1.0	--	**12**	--	--	--	**100**	< 501	--	--
MW-16	12/8/2015	10.98	3.86	NP	--	7.12	--	< 50	< 50	< 0.50	< 1.0	< 1.0	< 1.0	--	**15**	--	--	--	**140**	< 100	--	--
MW-16	3/8/2016	10.98	3.23	NP	--	7.75	--	**140 HD**	< 50	< 0.50	< 1.0	< 1.0	< 1.0	--	**8.3**	--	--	--	**130**	< 100	--	--
MW-16	6/28/2016	10.98	3.57	NP	--	7.41	--	**330**	< 50	< 0.50	< 1.0	< 1.0	--	--	**4.3**	--	--	--	**86**	< 100	--	--
MW-16	9/19/2016	10.98	3.19	NP	--	7.79	--	**490**	< 50	< 0.50	< 1.0	< 1.0	<1.0	--	**5.7**	--	--	--	**87**	< 100	--	--
MW-17	6/2/2011	11.52	5.78	NP	--	5.74	--	**687**	**9,130**	**2,530**	**960**	**35.1**	**907**	--	**0.74**	--	--	--	**366**	< 250	--	--
MW-17	9/7/2011	11.52	4.56	NP	--	6.96	--	**1,900**	**47,200**	**9,620**	**5,510**	**1,210**	**4,510**	--	< 25.0	--	--	--	--	< 12500	--	--
MW-17	12/5/2011	11.52	4.70	NP	--	6.82	--	**1,790**	**17,300**	**4,720**	**511**	**238**	**747**	--	< 2.5	--	--	--	--	< 1250	--	--
MW-17	3/6/2012	11.52	4.64	NP	--	6.88	--	**1,530**	**1,580**	**2,090**	**23.8**	**39.3**	**166**	--	**1.1**	--	--	--	**481**	< 250	--	--
MW-17	6/11/2012	11.52	4.67	NP	--	6.85	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-17	6/12/2012	--	--	--	--	--	--	**1,090**	**4,950**	**2,340**	**123**	**153**	**610**	--	< 2.5	--	--	--	**411**	< 1250	--	--
MW-17	9/6/2012	11.52	4.39	NP	--	7.13	--	< 1,000	**18,000**	**4,300**	**170**	**370**	**1,100**	--	< 10	< 10	< 10	< 10	**300**	< 100	< 10	**110**
MW-17	12/13/2012	11.52	4.20	NP	--	7.32	--	< 100	**55,000**	**7,300**	**2,700**	**1,700**	**4,600**	--	< 10	--	--	--	**300**	< 100	--	--
MW-17	3/14/2013	11.52	4.70	NP	--	6.82	--	< 200	**63,000**	**13,000**	**5,400**	**3,100**	**8,800**	--	< 15	--	--	--	**260**	< 150	--	--
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	--	--
MW-17	9/10/2013	11.52	4.60	NP	--	6.92	--	**160**	**36,000**	**8,200**	**510**	**1,200**	**2,400**	--	< 15	--	--	--	**320**	< 150	--	--
MW-17	12/12/2013	11.52	5.00	NP	--	6.52	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-17	3/4/2014	11.52	3.99	NP	--	7.53	--	**400**	**13,000**	**1,600**	**270**	**260**	**540**	--	< 3.0	--	--	--	**330**	**48**	--	--
MW-17	6/1/2014	11.52	--	--	--	--	WD	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-17	6/12/2014	11.52	4.49	NP	--	7.03	--	**87**	**17,000**	**3,600**	**410**	**650**	**1,100**	--	< 3.0	--	--	--	**300**	< 30	--	--

Gauging Notes:
TOC - Top of Casing
ft - Feet
LNAPL - Light non-aqueous phase liquid
NP - Not present
* - 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, also known as Gasoline Range Organics (GRO)
MTBE- Methyl tertiary-butyl ether
TBA- Tertiary-butyl alcohol
EDB - 1,2-Dichloroethane
1,2-DCA - 1,2-Dichloroethane
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.
A - Lower boiling hydrocarbons present, atypical for Diesel Fuel.
2V - The detection of Ethanol is biased high likely due to the presence of interfering compounds
HD - The chromatographic pattern was inconsistent with the profile of the reference fuel 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 (mg/L)	Arsenic (ug/L)	Barium (ug/L)	Beryllium (ug/L)	Biochemical Oxygen Demand (ug/L)	Bromate (mg/L)	Bromide (mg/L)	Cadmium (mg/L)	Cadmium (ug/L)	Chemical Oxygen Demand (ug/L)	Chloride (ug/L)	Chromium (mg/L)	Chromium (ug/L)	Chromium, Hexavalent (ug/L)	Cobalt (ug/L)	Coliform, Total MPN/100ML	E. Coli MPN/100ML
MW-6	3/14/2011	**18.4**	--	--	--	--	< 60.0	--	**22.7**	**216**	< 5.0	**32,200**	--	--	--	< 5.0	**173,000**	**204,000**	--	--	--	< 50.0	--	--
MW-6	6/2/2011	< 5.0	**828**	< 1	**828**	< 1	< 60.0	--	**22.0**	**191**	< 5.0	**45,100**	< 0.005	**2.1**	--	< 5.0	**121,000**	**149,000**	--	**4.3**	< 2	< 50.0	**42,000**	< 100
MW-6	9/6/2012	--	--	--	--	**650**	--	--	--	--	--	--	--	--	--	--	--	--	< 0.0050	--	< 10	--	--	--
MW-6	3/4/2014	--	--	--	--	--	--	**0.031**	--	--	--	--	--	--	< 0.0010	--	--	--	< 0.0050	--	--	--	--	--
MW-9	3/14/2011	< 5.0	--	--	--	--	< 60.0	--	< 20.0	< 100	< 5.0	**7,160**	--	--	--	< 5.0	**11,500**	**34,700**	--	--	--	< 50.0	--	--
MW-9	6/2/2011	< 5.0	**226**	< 1	**226**	< 1	< 60.0	--	< 20.0	< 100	< 5.0	**4,170**	< 0.005	**2**	--	< 5.0	**15,100**	**32,400**	--	**2.4**	< 0.2	< 50.0	**2**	< 1
MW-10	9/6/2012	--	--	--	--	**561**	--	--	--	--	--	--	--	--	--	--	--	--	**0.017**	--	< 10	--	--	--
MW-12	3/14/2011	< 5.0	--	--	--	--	< 60.0	--	< 20.0	< 100	< 5.0	< 2000	--	--	--	< 5.0	**80,100**	**8,240,000**	--	--	--	< 50.0	--	--
MW-12	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**	--	**3.3**	< 2	< 50.0	**210**	< 1
MW-12	9/6/2012	--	--	--	--	**806**	--	--	--	--	--	--	--	--	--	--	--	--	< 0.0050	--	< 10	--	--	--
MW-12	3/4/2014	--	--	--	--	--	--	< 0.015	--	--	--	--	--	--	**0.0018**	--	--	--	< 0.0050	--	--	--	--	--
MW-14	9/6/2012	--	--	--	--	**1,720**	--	--	--	--	--	--	--	--	--	--	--	--	**0.024**	--	< 10	--	--	--
MW-17	9/6/2012	--	--	--	--	**2,820**	--	--	--	--	--	--	--	--	--	--	--	--	**0.038**	--	< 10	--	--	--

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 HISORICAL GROUNDWATER ANALYTICAL DATA
76 STATION NO. 5191/504
449 HEGENBERGER ROAD
OAKLAND, CALIFORNIA

Well I.D.	Date	GROUNDWATER ANALYTICAL DATA																								
		Copper (mg/L)	Inorganic Carbon (mg/L)	Iron SW6010 D (ug/L)	Iron SW6010 T (ug/L)	Iron, Ferric (mg/L)	Iron, Ferric (ug/L)	Iron, Ferrous (ug/L)	Lead (mg/L)	Lead (ug/L)	Manganese (T) (mg/L)	Manganese (D) (mg/L)	Manganese (D) (ug/L)	Mercury (mg/L)	Mercury (ug/L)	Methane (ug/L)	Molybdenum (ug/L)	Nickel (mg/L)	Nickel (ug/L)	Nitrate as N E353/E351 (ug/L)	Nitrite as N (mg/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	--	--	--
MW-3	6/30/2010	--	--	**5,550**	**10,700**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 50.0	--	**95.0**	--	**75.7**	--	--	--
MW-3	6/2/2011	--	--	--	**13,600**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 50.0	--	< 10.0	--	**52.5**	--	--	--
MW-3	6/11/2012	--	--	--	**10,900**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 50.0	< 0.010	--	--	< 50.0	--	--	--
MW-5	11/30/1992	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	ND	--
MW-5	2/4/1993	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	ND	--
MW-5	5/4/1993	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	ND	--
MW-5	8/4/1993	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	ND	--
MW-6	9/17/2009	--	--	--	**1,500**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	12/17/2009	--	--	--	**2,460**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 50.0	--	< 50.0	--	< 50.0	--	--	--
MW-6	3/29/2010	--	--	**1,790**	**1,510**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 50.0	--	**41.3**	--	**54.9**	--	--	--
MW-6	6/30/2010	--	--	**946**	**2,310**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 50.0	--	**57.9**	--	**69.3**	--	--	--
MW-6	9/20/2010	--	--	**2,730**	**2,600**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 50.0	--	< 10.0	--	**52.1**	--	--	--
MW-6	3/14/2011	--	--	--	**4,900**	--	**3,900**	**1,000**	--	**26.8**	--	--	**1,270**	--	< 0.20	**474**	< 20.0	--	< 40.0	**50.1**	--	< 10.0	--	**54.2**	--	--	--
MW-6	6/2/2011	--	**870**	--	**4,320**	--	**2,520**	**1,800**	--	**22.6**	--	--	**1,510**	--	< 0.20	**445**	< 20.0	--	< 40.0	< 50.0	--	< 10.0	**2.9**	**50.5**	**4.8**	--	**1,500**
MW-6	6/12/2012	--	--	--	**1,240**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 50.0	< 0.010	--	--	< 50.0	--	--	--
MW-6	9/6/2012	--	--	--	--	**1.0**	--	--	--	--	**1.4**	**1.2**	--	--	--	**2,890**	--	--	--	--	--	--	--	--	--	--	--
MW-6	3/4/2014	--	--	--	**2,000**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	3/4/2014	< 0.0050	--	--	--	--	--	--	**0.014**	--	--	--	--	< 0.00050	--	--	--	**0.017**	--	--	--	--	--	--	--	--	--
MW-7	6/30/2010	--	--	**836**	**7,550**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 50.0	--	**73.9**	--	**73.6**	--	--	--
MW-7	6/2/2011	--	--	--	**7,800**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**233**	--	< 10.0	--	**239**	--	--	--
MW-7	6/11/2012	--	--	--	**264**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 50.0	**0.067**	--	--	**111**	--	--	--
MW-8	6/30/2010	--	--	**4,710**	**8,000**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 50.0	--	**68.2**	--	**59.7**	--	--	--
MW-8	6/2/2011	--	--	--	**24,900**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**60.9**	--	< 10.0	--	**60.9**	--	--	--
MW-8	6/11/2012	--	--	--	**21,000**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 50.0	**0.048**	--	--	< 50.0	--	--	--
MW-9	12/17/2009	--	--	--	**2,270**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 50.0	--	< 50.0	--	< 50.0	--	--	--
MW-9	6/30/2010	--	--	**3,210**	**8,820**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 50.0	--	**14.9**	--	< 50.0	--	--	--
MW-9	3/14/2011	--	--	--	**1,560**	--	**157**	**1,400**	--	< 10.0	--	--	**148**	--	< 0.20	**419**	< 20.0	--	< 40.0	< 50.0	--	< 10.0	--	< 50.0	--	--	--
MW-9	6/2/2011	--	**240**	--	**1,260**	--	**1,060**	**200**	--	< 10.0	--	--	**91.5**	--	< 0.20	**673**	< 20.0	--	< 40.0	< 50.0	--	< 10.0	**0.86**	< 50.0	**0.6**	--	**405**
MW-9	6/11/2012	--	--	--	**731**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 50.0	< 0.010	--	--	< 50.0	--	--	--
MW-10	9/17/2009	--	--	--	**9,800**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-10	12/17/2009	--	--	--	**3,410**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**1,970**	--	**60.3**	--	**2,030**	--	--	--
MW-10	3/29/2010	--	--	**365**	**2,410**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**1,960**	--	**18.7**	--	**1,970**	--	--	--
MW-10	6/30/2010	--	--	**216**	**1,860**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**2,120**	--	**68.1**	--	**2,190**	--	--	--
MW-10	9/20/2010	--	--	**280**	**3,080**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**2,690**	--	**68.2**	--	**2,750**	--	--	--
MW-10	3/14/2011	--	--	--	**2,620**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**2,350**	--	--	--
MW-10	6/2/2011	--	--	--	**9,870**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**1,290**	--	**49.3**	--	**1,340**	--	--	--
MW-10	6/11/2012	--	--	--	**11,300**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**1,510**	**0.057**	--	--	**1,570**	--	--	--
MW-10	9/6/2012	--	--	--	--	**11**	--	--	--	--	**0.70**	**0.49**	--	--	--	**467**	--	--	--	--	--	--	--	--	--	--	--
MW-11	7/6/2010	--	--	< 100	**3,510**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 50.0	--	**31.0**	--	**66.9**	--	--	--
MW-11	9/20/2010	--	--	< 100	**1,690**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**167**	--	< 10.0	--	**172**	--	--	--
MW-11	3/14/2011	--	--	--	**756**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 50.0	--	--	--
MW-11	6/2/2011	--	--	--	**1,040**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**110**	--	< 10.0	--	**115**	--	--	--
MW-11	6/11/2012	--	--	--	**1,300**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**88.8**	< 0.010	--	--	**93.5**	--	--	--
MW-12	7/6/2010	--	--	< 100	**30,200**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 50.0	--	**60.5**	--	< 50.0	--	--	--
MW-12	9/20/2010	--	--	**552**	**3,890**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**72.3**	--	< 10.0	--	**75.2**	--	--	--
MW-12	3/14/2011	--	--	--	**793**	--	**593**	**200**	--	< 10.0	--	--	**12,400**	--	< 0.20	**114**	< 20.0	--	**151**	< 50.0	--	**60.6**	--	**54.4**	--	--	--
MW-12	6/2/2011	--	**1,100**	--	**9,340**	--	**8,740**	**600**	--	< 10.0	--	--	**12,800**	--	< 0.20	**287**	< 20.0	--	**119**	< 50.0	--	< 10.0	**0.14**	**58.0**	**0.91**	--	**15,600**
MW-12	6/12/2012	--	--	--	**497**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 50.0	< 0.010	--	--	< 50.0	--	--	--
MW-12	9/6/2012	--	--	--	--	**0.19**	--	--	--	--	**10**	**10**	--	--	--	**63.8**	--	--	--	--	--	--	--	--	--	--	--
MW-12	3/4/2014	< 0.0050	--	--	--	--	--	--	< 0.0050	--	--	--	--	< 0.00050	--	--	--	**0.12**	--	--	--	--	--	--	--	--	--
MW-12A	7/6/2010	--	--	**716**	**57,300**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**3,680**	--	**164**	--	**3,840**	--	--	--
MW-12A	9/20/2010	--	--	< 100	**523**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**4,680**	--	**10.2**	--	**4,690**	--	--	--
MW-12A	3/14/2011	--	--	--	**523**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**4,790**	--	--	--
MW-12A	6/2/2011	--	--	--	**754**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**4,710**	--	< 10.0	--	**4,720**	--	--	--
MW-12A	6/11/2012	--	--	--	**859**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**4,250**	< 0.010	--	--	**4,260**	--	--	--
MW-13	7/6/2010	--	--	**116**	**92,600**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 50.0	--	**64.9**	--	**70.4**	--	--	--
MW-13	9/20/2010	--	--	**279**	**59,500**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 50.0	--	< 10.0	--	< 50.0	--	--	--
MW-13	3/14/2011	--	--	--	**44,600**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 50.0	--	--	--
MW-13	6/2/2011	--	--	--	**36,700**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**71.5**	--	**14.5**	--	**86.0**	--	--	--
MW-13	6/12/2012	--	--	--	**3,760**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 50.0	**0.019**	--	--	< 50.0	--	--	--
MW-14	6/2/2011	--	--	--	**47,500**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 50.0	--	**10.4**	--	**50.1**	--	--	--
MW-14	6/12/2012	--	--	--	**1,150**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 50.0	< 0.010	--	--	< 50.0	--	--	--
MW-14	9/6/2012	--	--	--	--	**8.9**	--	--	--	--	**3.0**	**2.3**	--	--	--	**718**	--	--	--	--	--	--	--	--	--	--	--
MW-15	6/2/2011	--	--	--	**11,700**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**890**	--	**38.0**	--	**928**	--	--	--
MW-15	6/12/2012	--	--	--	**2,920**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 50.0	< 0.010	--	--	< 50.0	--	--	--
MW-16	6/2/2011	--	--	--	**34,200**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 50.0	--	< 10.0	--	< 50.0	--	--	--
MW-16	6/12/2012	--	--	--	**1,730**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 50.0	< 0.010	--	--	< 50.0	--	--	--
MW-17	6/2/2011	--	--	--	**109,000**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 50.0	--	**29.7**	--	< 50.0	--	--	--
MW-17	6/12/2012	--	--	--	**44,300**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 50.0	**0.039**	--	--	< 50.0	--	--	--
MW-17	9/6/2012	--	--	--	--	**21**	--	--	--	--	**7.5**	**7.9**	--	--	--	**182**	--	--	--	--	--	--	--	--	--	--	--

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 (mg/L)	Silver (ug/L)	Sulfate E300 (mg/L)	Sulfate E300 (ug/L)	Sulfate E300.1 (mg/L)	Sulfate E300.1 (ug/L)	Thallium (ug/L)	Total Organic Carbon (mg/L)	Vanadium (ug/L)	Zinc (mg/L)	Zinc (ug/L)
MW-3	12/17/2009	--	--	--	--	--	< 0.5	--	--	--	--	--	--
MW-3	6/30/2010	--	--	--	--	< 5000	--	--	--	--	--	--	--
MW-3	6/2/2011	--	--	--	--	< 5000	--	--	--	--	--	--	--
MW-3	6/11/2012	--	--	--	--	< 2000	--	--	--	--	--	--	--
MW-6	9/17/2009	--	--	--	--	< 0.0010	--	--	--	--	--	--	--
MW-6	12/17/2009	--	--	--	--	--	< 0.5	--	--	--	--	--	--
MW-6	3/29/2010	--	--	--	< 1.0	--	--	--	--	--	--	--	--
MW-6	6/30/2010	--	--	--	--	< 5000	--	--	--	--	--	--	--
MW-6	9/20/2010	--	--	--	--	< 1000	--	--	--	--	--	--	--
MW-6	3/14/2011	< 10.0	--	< 10.0	--	**35,400**	--	--	< 20.0	--	< 50.0	--	< 40.0
MW-6	6/2/2011	< 10.0	--	< 10.0	--	**38,900**	--	--	< 20.0	**41**	< 50.0	--	< 40.0
MW-6	6/12/2012	--	--	--	--	**1,110**	--	--	--	--	--	--	--
MW-6	3/4/2014	--	< 0.0050	--	--	--	--	--	--	--	--	**0.036**	--
MW-7	6/30/2010	--	--	--	--	**191,000**	--	--	--	--	--	--	--
MW-7	6/2/2011	--	--	--	--	**48,900**	--	--	--	--	--	--	--
MW-7	6/11/2012	--	--	--	--	**56,900**	--	--	--	--	--	--	--
MW-8	6/30/2010	--	--	--	--	**2,360,000**	--	--	--	--	--	--	--
MW-8	6/2/2011	--	--	--	--	**2,830,000**	--	--	--	--	--	--	--
MW-8	6/11/2012	--	--	--	--	**2,570,000**	--	--	--	--	--	--	--
MW-9	12/17/2009	--	--	--	--	--	**11**	--	--	--	--	--	--
MW-9	6/30/2010	--	--	--	--	**19,000**	--	--	--	--	--	--	--
MW-9	3/14/2011	< 10.0	--	< 10.0	--	**8,980**	--	--	< 20.0	--	< 50.0	--	< 40.0
MW-9	6/2/2011	< 10.0	--	< 10.0	--	**18,600**	--	--	< 20.0	**4.7**	< 50.0	--	< 40.0
MW-9	6/11/2012	--	--	--	--	**42,500**	--	--	--	--	--	--	--
MW-10	9/17/2009	--	--	--	--	**84**	--	**0.084**	--	--	--	--	--
MW-10	12/17/2009	--	--	--	--	**86**	--	--	--	--	--	--	--
MW-10	12/17/2009	--	--	--	--	--	**86**	--	--	--	--	--	--
MW-10	3/29/2010	--	--	--	--	**73,600**	--	--	--	--	--	--	--
MW-10	3/29/2010	--	--	--	**73.6**	--	--	--	--	--	--	--	--
MW-10	6/30/2010	--	--	--	--	**70,800**	--	--	--	--	--	--	--
MW-10	9/20/2010	--	--	--	--	**82,000**	--	--	--	--	--	--	--
MW-10	3/14/2011	--	--	--	--	**68,600**	--	--	--	--	--	--	--
MW-10	6/2/2011	--	--	--	--	**71,700**	--	--	--	--	--	--	--
MW-10	6/11/2012	--	--	--	--	**70,100**	--	--	--	--	--	--	--
MW-11	7/6/2010	--	--	--	--	**82,100**	--	--	--	--	--	--	--
MW-11	9/20/2010	--	--	--	--	**58,300**	--	--	--	--	--	--	--
MW-11	3/14/2011	--	--	--	--	**59,900**	--	--	--	--	--	--	--
MW-11	6/2/2011	--	--	--	--	**62,900**	--	--	--	--	--	--	--
MW-11	6/11/2012	--	--	--	--	**79,400**	--	--	--	--	--	--	--
MW-12	7/6/2010	--	--	--	--	**3,030,000**	--	--	--	--	--	--	--
MW-12	9/20/2010	--	--	--	--	**1,970,000**	--	--	--	--	--	--	--
MW-12	3/14/2011	< 10.0	--	< 10.0	--	**2,500,000**	--	--	< 20.0	--	< 50.0	--	< 40.0
MW-12	6/2/2011	< 10.0	--	< 10.0	--	**2,330,000**	--	--	< 20.0	**9.1**	< 50.0	--	< 40.0
MW-12	6/12/2012	--	--	--	--	**2,130,000**	--	--	--	--	--	--	--
MW-12	3/4/2014	--	< 0.0050	--	--	--	--	--	--	--	--	**0.046**	--
MW-12A	7/6/2010	--	--	--	--	**100,000**	--	--	--	--	--	--	--
MW-12A	9/20/2010	--	--	--	--	**82,500**	--	--	--	--	--	--	--
MW-12A	3/14/2011	--	--	--	--	**81,000**	--	--	--	--	--	--	--
MW-12A	6/2/2011	--	--	--	--	**101,000**	--	--	--	--	--	--	--
MW-12A	6/11/2012	--	--	--	--	**118,000**	--	--	--	--	--	--	--
MW-13	7/6/2010	--	--	--	--	**450,000**	--	--	--	--	--	--	--
MW-13	9/20/2010	--	--	--	--	**241,000**	--	--	--	--	--	--	--
MW-13	3/14/2011	--	--	--	--	**375,000**	--	--	--	--	--	--	--
MW-13	6/2/2011	--	--	--	--	**188,000**	--	--	--	--	--	--	--
MW-13	6/12/2012	--	--	--	--	**131,000**	--	--	--	--	--	--	--

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 (mg/L)	Silver (ug/L)	Sulfate E300 (mg/L)	Sulfate E300 (ug/L)	Sulfate E300.1 (mg/L)	Sulfate E300.1 (ug/L)	Thallium (ug/L)	Total Organic Carbon (mg/L)	Vanadium (ug/L)	Zinc (mg/L)	Zinc (ug/L)
MW-3	12/17/2009	--	--	--	--	--	< 0.5	--	--	--	--	--	--
MW-14	6/2/2011	--	--	--	--	**56,300**	--	--	--	--	--	--	--
MW-14	6/12/2012	--	--	--	--	**439,000**	--	--	--	--	--	--	--
MW-15	6/2/2011	--	--	--	--	**62,700**	--	--	--	--	--	--	--
MW-15	6/12/2012	--	--	--	--	**42,100**	--	--	--	--	--	--	--
MW-16	6/2/2011	--	--	--	--	**8,740**	--	--	--	--	--	--	--
MW-16	6/12/2012	--	--	--	--	**19,900**	--	--	--	--	--	--	--
MW-17	6/2/2011	--	--	--	--	**3,920,000**	--	--	--	--	--	--	--
MW-17	6/12/2012	--	--	--	--	**2,520,000**	--	--	--	--	--	--	--

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

Well I.D.	Date	GROUNDWATER ANALYTICAL DATA												
		1,2,4-Trimethylbenzene (ug/L)	1,3,5-Trimethylbenzene (ug/L)	Isopropylbenzene (ug/L)	Naphthalene (ug/L)	o-Xylene (ug/L)	m,p-Xylenes (ug/L)	n-Butylbenzene (ug/L)	n-Propylbenzene (ug/L)	p-Isopropyltoluene (ug/L)	sec-Butylbenzene (ug/L)	Oil & Grease (HEM) (ug/L)	Phenolics (ug/L)	Cyanide (ug/L)
MW-3	6/11/2015	--	--	--	--	< 5.0	< 5.0	--	--	--	--	--	--	--
MW-6	3/4/2014	--	--	--	--	--	**1,400**	--	--	--	--	**1.6**	< 0.1	< 0.02
MW-6	3/4/2014	**3000**	**860**	**200**	**990**	**300**	--	**100**	**530**	**22**	**53**	--	--	--
MW-6	6/11/2015	--	--	--	--	**2,000**	**5,800**	--	--	--	--	--	--	--
MW-9	6/11/2015	--	--	--	--	< 2.0	< 2.0	--	--	--	--	--	--	--
MW-11	6/11/2015	--	--	--	--	< 1.0	< 1.0	--	--	--	--	--	--	--
MW-12	3/4/2014	--	**11**	--	--	--	< 2.0	--	--	--	--	**1.9**	**0.1**	< 0.02
MW-12	3/4/2014	**3.7**	< 2.0	< 2.0	< 2.0	< 2.0	--	< 2.0	< 2.0	< 2.0	< 2.0	--	--	--
MW-13	6/11/2015	--	--	--	--	< 5.0	< 5.0	--	--	--	--	--	--	--
MW-14	6/11/2015	--	--	--	--	< 5.0	**470**	--	--	--	--	--	--	--
MW-15	6/11/2015	--	--	--	--	< 1.0	< 1.0	--	--	--	--	--	--	--
MW-16	6/11/2015	--	--	--	--	< 5.0	< 5.0	--	--	--	--	--	--	--

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
A full list of volatile organic compounds by EPA Method 624 was analyzed for monitoring wells MW-6 and MW-12, only constituents reported above the laboratory's indicated reporting limits are included in the table.

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 feet)	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	0	**1**	0	0	0
	02/07/94		0	0	0	0	0	0	0	0	0	0	0	**1**	0	0	0	0
	11/14/94	0.03	0	0	0	0	0	0	0	0	0	0	0	**1**	0	0	0	0
	02/21/95	0.08	0	0	0	0	0	0	**1**	0	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	0
	07/26/96	0.02	0	0	0	0	0	0	**1**	0	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	0
	01/29/97	0.01	0	0	0	0	0	0	**1**	0	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	0
	07/15/97	0.10	0	0	0	0	0	0	**1**	0	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	0
	01/14/98	0.02	0	0	0	0	0	0	0	0	0	0	**1**	0	0	0	0	0
	04/01/98	0.05	0	0	0	0	0	0	0	0	**1**	0	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	0
	09/30/98	0.05	0	0	0	0	0	0	0	0	0	0	**1**	0	0	0	0	0
	01/25/99	0.05	0	0	0	0	0	0	0	0	0	0	**1**	0	0	0	0	0
	04/15/99	0.04	0	0	0	0	0	0	0	0	0	0	**1**	0	0	0	0	0
	10/21/99	0.03	0	0	0	0	0	0	0	0	0	0	**1**	0	0	0	0	0
	07/14/99	0.04	0	0	0	0	0	0	0	0	0	0	**1**	0	0	0	0	0
	04/13/00	0.050	0	0	0	0	0	0	0	0	0	0	**1**	0	0	0	0	0
	07/14/00	0.033	0	0	0	0	0	0	**1**	0	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	0
	01/03/01	0.070	0	0	0	0	0	0	0	0	0	0	**1**	0	0	0	0	0
	07/17/01	0.040	0	0	0	0	0	0	0	0	0	0	**1**	0	0	0	0	0
	10/01/01	0.030	0	0	0	0	0	0	0	0	0	0	**1**	0	0	0	0	0
	01/31/02	0.010	0	0	0	0	0	0	0	0	0	0	**1**	0	0	0	0	0
	07/28/02	0.020	0	0	0	0	0	0	**1**	0	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	0
	01/02/03	0.010	0	0	0	0	0	0	0	0	0	0	**1**	0	0	0	0	0
	04/01/03	0.008	0	0	0	0	0	0	**1**	0	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	0
	10/02/03	0.010	0	0	0	0	0	0	0	0	0	0	**1**	0	0	0	0	0
	01/09/04	0.010	0	0	0	0	0	0	0	0	0	0	**1**	0	0	0	0	0
	04/26/04	0.010	0	0	0	0	0	0	0	0	**1**	0	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	0
	10/29/04	0.010	0	0	0	0	0	0	0	0	**1**	0	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	0
	06/15/05	0.020	0	0	0	0	0	0	**1**	0	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	0
	12/13/05	0.005	0	0	0	0	0	0	**1**	0	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	0
	06/23/06	0.010	0	0	0	0	0	0	0	0	**1**	0	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	0
	12/22/06	0.010	0	0	0	0	0	0	0	0	**1**	0	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	0
	09/25/07	0.010	0	0	0	0	0	0	0	0	**1**	0	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	0
	06/28/07	0.010	0	0	0	0	0	0	0	0	**1**	0	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	0
	06/23/08	0.010	0	0	0	0	0	0	0	0	**1**	0	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	0
	12/31/08	0.005	0	0	0	0	0	0	**1**	0	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	0
	05/28/09	0.008	0	0	0	0	0	0	**1**	0	0	0	0	0	0	0	0	0
	09/17/09	0.010	0	0	0	0	0	0	**1**	0	0	0	**1**	0	0	0	0	0
	12/17/09	0.008	0	0	0	0	0	0	0	0	0	0	**1**	0	0	0	0	0
	03/29/10	0.010	0	0	0	0	0	0	**1**	0	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	0
	09/20/10	0.007	0	0	0	0	0	**1**	0	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	0
	03/14/11	0.020	0	0	0	0	0	0	**1**	0	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	0
	09/07/11	0.020	0	0	0	0	0	0	**1**	0	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	0

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 feet)	Groundwater Flow Direction															
			N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW
	03/06/12	0.010	0	0	0	0	0	0	0	**1**	0	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	0
	09/06/12	Variable	0	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	0
	03/14/13	0.050	0	0	0	0	0	0	**1**	0	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
	09/10/13	0.014	0	0	0	0	0	0	0	0	**1**	0	0	0	0	0	0	0
	12/12/13	0.018	0	0	0	0	0	0	**1**	0	0	0	0	0	0	0	0	0
	03/04/14	0.010	0	0	0	0	0	0	**1**	0	0	0	0	0	0	0	0	0
	06/12/14	0.020	0	0	0	0	0	0	0	0	**1**	0	0	0	0	0	0	0
	09/05/14	0.003	0	0	0	0	0	0	0	0	**1**	0	0	0	0	0	0	0
	12/22/14	Variable	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	03/16/15	Variable	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	06/11/15	Variable	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	09/09/15	Variable	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12/08/15	Variable	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	03/08/16	Variable	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	06/28/16	0.0067	0	0	0	0	0	0	0	0	0	0	**1**	0	0	0	0	0
	06/19/16	Variable	0	0	0	0	0	0	**1**	0	0	0	**1**	0	0	0	0	0
		0.024 Average	**0**	**0**	**0**	**0**	**0**	**1**	**34**	**1**	**16**	**0**	**21**	**2**	**3**	**0**	**0**	**0**

Explanation
NA = Not available
Number of Events = 84

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.

July 2013 – Antea Group advanced ten soil borings (SB-1 through SB-10) at the site. The borings were advanced using direct push technology. The borings were used to delineate petroleum hydrocarbon impacted soil around

monitoring well MW-6. Results of the investigation can be found in the *Site Investigation Report*, dated January 9, 2014.

June 2014 – Antea Group destroyed monitoring wells MW-10, MW-12, MW-12A, and MW-17 by pressure grouting. The wells were destroyed in preparation for on-site soil excavation activities.

September 2014 – Antea Group advanced two (2) cone penetration test (CPT) borings CPT-1 and CPT-2 in preparation for soil excavations on site. Soil and groundwater samples were not collected. Data from the CPT borings was used to help design shoring for excavations. Antea Group advanced three (3) off-site soil borings, SB-13 through SB-15. Soil and grab-groundwater samples were collected from the borings.

July 2015 – Antea Group destroyed on-site monitoring wells MW-6 and MW-14 in preparation for on-site soil excavation activities. On-site soil borings were advanced for waste characterization (WC-1 to WC-3) and delineate soil (SB-16 to SB-18) concentrations in the vicinity of the proposed soil excavation. Two off-site soil borings were advanced (SB-11 and SB-12) for delineation down-gradient.

January 2015 – Antea Group destroyed off-site monitoring wells MW-7 and MW-8 by drill-out.

May through July 2016 – Antea Group performed a series of remedial excavations on-site. The excavation focused on removing soil from two areas of hydrocarbon impact to the soil (secondary source areas) identified during previous investigations, one on the east side of the site between the dispensers and Hegenberger Road, and the other in the southwest corner of the site. A total of 1665 tons of soil were removed from the site during excavation activities. Approximately 1,400 pounds of OCR-A was spread throughout the entire excavation area to facilitate in-situ aerobic biodegradation.

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**

Appendix B

Regulatory Correspondence

Nowell, Keith, Env. Health

From: Nowell, Keith, Env. Health
Sent: Friday, September 09, 2016 10:11 AM
To: 'Dacre Bush'
Cc: 'Colleen Liang (CLiang@PortOakland.com)'; 'AC Atherton'; 'Walter.sprague@unitedpacific.com'; Roe, Dilan, Env. Health
Subject: RE: FW: RO219 - Tentative meeting- UNOCAL #5043 on 449 HEGENBERGER RD

Dacre,

The purpose of the meeting is to discuss station remodel, distribution of PCOCs, and possibly coordinate remaining remedial activities.

Specifically, the current station owner has questions regarding the effects of remedial activities and known distribution of PCOCs to the proposed station remodel. It seems prudent to invite all stakeholders to the meeting to discuss the proposed future activities.

Regards,
Keith Nowell

-----Original Appointment-----
From: Dacre Bush [mailto:Dacre.Bush@anteagroup.com]
Sent: Friday, September 09, 2016 9:51 AM
To: Nowell, Keith, Env. Health
Cc: Lisa Ehlers; Mike Martinson
Subject: Accepted: FW: RO219 - Tentative meeting- UNOCAL #5043 on 449 HEGENBERGER RD
When: Friday, September 30, 2016 2:30 PM-3:30 PM (UTC-08:00) Pacific Time (US & Canada).
Where: 1131 Harbor Bay Parkway, Alameda

Keith – I am finalizing the excavation report, and hope to have it to you next week. Lisa Ehlers is the RG reviewing and stamping the final report, and Mike Martinson is providing technical review.

Please note that there was only one sidewall sample above the LTC goals, and the split of that sampling location was below al the LTC goals.

Is the purpose of the meeting to determine the applicability for closure?

Thanks,

Dacre Bush
Antea Group
805-295-9071
Dacre.bush@anteagroup.com

Appendix C

Blaine Tech Groundwater Sampling Field Data Sheets

Well-Head Inspection & Well Gauging Form

Antea Group Project No: 2705191 Site Address: 469 Hegenberger, Oakland

Field Technician: Dustin Beelaer (Print Full Name & Company*) Date: 9/9/16 Weather: Sunny

Sample Order	Field Point	Well Condition: Bolts	Seal	Lid Secure	Lock	Expanding Cap	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
	MW-3				✓	✓	Y	2	0900	3.21	13.92			1/2 bolts missing / 2/2 holes stripped
	MW-9	✓	✓	✓	✓	✓	N	2	~~0846~~ 0853	~~2.38~~ 4.12	~~12.57~~ 14.58			4/3 holes no bolts
	MW-11				✓	✓	N	4	0904	2.84	19.53			2/2 holes stripped
	MW-13	✓	✓	✓	✓	✓	N	2	0853	4.12	14.58			
	MW-15	✓	✓	✓	✓	✓	N	2	0908	3.50	12.66			
	MW-16	✓	✓	✓	✓	✓	N	2	0856	3.19	12.64			

Notes:

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

anteagroup

*Form provided by Antea Group

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

Groundwater Sampling Form

Site Address:	449 Hegenberger Rd., Oakland		
Project No:	2705191	Field Technician:	DS
Field Point:	MW-3	Date:	9/19/16
Depth to Water (DTW) (ft bgs):	3.21	Well Diameter (in):	(2) 4 6 8 ___
Depth to LNAPL (ft bgs):		Thickness of LNAPL (ft):	
Total Depth of Well (ft bgs):	13.92	Water Column Height (ft):	10.71

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)
~~Extraction Port~~
Dedicated Tubing
Disposable Tubing
Other:

Water Column Height (ft): 10.71 X Conversion Factor (gal/ft): 0.17 = Casing Volume (gal): 1.82

Casing Volume (gal): 1.9 X Specified Volumes: 3 = Calculated Purge (gal): 5.7

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				-293.4		4.11		
1131	24.9	6.97	3208	-306.2	44	3.45	1	~~8.49~~
1132	26.0	6.78	3176	-307.7	40	2.68	2	
1133	26.3	6.71	3149	-309.4	36	2.60	3	
1134	26.5	6.68	3141	-311.1	34	2.53	4	
1135	26.6	6.66	3137	-312.2	31	2.50	5	
1136	26.7	6.64	3131	-313.6	29	2.47	6	
					49			
Post-Purge								

Did Well dewater? Yes No Total Purge volume (gal): 6

Other Comments:
80% = 5.35
DTW = 9.66 (> 2 hours)
Purged through flow cell

Sample Info:

Sample ID:	MW-3_20160930	Sample Date and Time:	9/19/16 / 1325
Selected Analysis:			

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

Signature: Date: 9/19/16

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Antea™Group, 1-800-477-7411

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 Rd., Oakland		
Project No:	160919-081	Field Technician:	DB
Field Point:	MW-9	Date:	9/19/16
Depth to Water (DTW) (ft bgs):	2.28	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):	10.29

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)
~~Extraction Port~~
Dedicated Tubing
Disposable Tubing
Other:_____

Water Column Height (ft): 10.29 X Conversion Factor (gal/ft): 0.17 = Casing Volume (gal): 1.75

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:**_____ **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				-274.1		7.41		
1017	26.4	6.79	2500	-324.0	16	3.24	1	
1018	26.6	6.62	2507	-328.3	15	2.91	2	
1019	26.4	6.38	2518	-327.1	14	2.73	3	
1020	26.0	6.41	2520	-299.7	13	2.56	4	
1021	— well dewatered				4 gallons		~~5~~	
~~1022~~							~~6~~	
1315					6			
Post-Purge								

Did Well dewater? (Yes) No Total Purge volume (gal): 4

Other Comments: 80% = 4.33 Purged through flow cell
DTW = 6.51 (> 2 hours)

Sample Info:

Sample ID:	MW-9_2016	Sample Date and Time:	9/19/16 1315
Selected Analysis:			

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

Signature: _____ Date: 9/19/16

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Antea™Group, 1-800-477-7411

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 Rd., Oakland		
Project No:	2705191	Field Technician:	LB
Field Point:	MW-11	Date:	9/19/16
Depth to Water (DTW) (ft bgs):	2.84	Well Diameter (in):	2 (4) 6 8 ___
Depth to LNAPL (ft bgs):		Thickness of LNAPL (ft):	
Total Depth of Well (ft bgs):	19.53	Water Column Height (ft):	16.69

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)
~~Extraction Port~~
Dedicated Tubing
Disposable Tubing
Other:_____

Water Column Height (ft): 16.69 X Conversion Factor (gal/ft): 0.66 = Casing Volume (gal): 11.02

Casing Volume (gal): 11.1 X Specified Volumes: 3 = Calculated Purge (gal): 33.3

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								
1159	24.07	~~24.743~~ 7.43	3324	-298.7	56	5.38	5.75	
1202	24.14	7.34	3149	-290.7	41	4.59	11.25	
1205	24.10	7.24	3118	-287.7	37	3.97	16.75	
1208	24.06	7.21	3100	-285.4	31	3.91	22.25	
1211	24.04	7.19	3091	-283.1	29	3.84	28	
1214	24.03	7.16	3080	-279.6	25	3.76	33.5	
Post-Purge								

Did Well dewater? Yes (No) Total Purge volume (gal): 34

Other Comments: 80% = 6.17
DTW = 3.488
* Purged through flow cell

Sample Info:

Sample ID:	MW-11_20160930	Sample Date and Time:	9/19/16
Selected Analysis:	SEE COC		

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

Signature: _____ Date: 9/19/16

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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 Rd., Oakland		
Project No:	2705171	Field Technician:	
Field Point:	MW-13	Date:	9/19/16
Depth to Water (DTW) (ft bgs):	4.12	Well Diameter (in):	(2) 4 6 8 ___
Depth to LNAPL (ft bgs):		Thickness of LNAPL (ft):	
Total Depth of Well (ft bgs):	14.58	Water Column Height (ft):	10.46

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); Extraction Port; Dedicated Tubing; Disposable Tubing; Other:_____

Water Column Height (ft): 10.46 X Conversion Factor (gal/ft): 0.17 = Casing Volume (gal): 1.78

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:**_____ **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				-284.0		4.17		
1042	22.27	7.28	6638	-320.1	71	2.89	1	7.97
1043	22.28	7.29	6620	-328.1	61	2.86	2	8.10
1044	21.91	7.11	9402	-320.4	48	2.85	3	8.56
1045	21.88	7.10	9411	-320.7	41	2.71	4	9.13
1046	21.85	7.09	9424	-320.1	39	2.66	5	9.41
1047	21.84	7.08	9671	-320.4	37	2.61	6	9.99
Post-Purge				-320.8		2.59		

Did Well dewater? Yes No Total Purge volume (gal): 6

Other Comments: 80% = 6.21 DTW = 6.20 @ Purged through flow cell Short wait

Sample Info:

Sample ID:	MW-13_20160930	Sample Date and Time:	9/19/16 / 1100
Selected Analysis:	SEE COC		

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

Signature: _____ Date: 9/19/16

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Antea™Group, 1-800-477-7411

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 Heyenberger Rd., Oakdale		
Project No:	270519.1	Field Technician:	DB
Field Point:	MW-15	Date:	9/9/16
Depth to Water (DTW) (ft bgs):	3.50	Well Diameter (in):	(2) 4 6 8 ___
Depth to LNAPL (ft bgs):		Thickness of LNAPL (ft):	
Total Depth of Well (ft bgs):	12.68	Water Column Height (ft):	9.18

Purging Info and Calculations:

Purge Method: Low-Flow; 3 ~~casing volumes~~ (circled); Other:

Purge Equipment: ~~Disposable Bailer~~; Electric Submersible (circled); ~~Peristaltic Pump~~; Bladder Pump; Other:

Sample Collection Method: Disposable Bailer (circled); ~~Extraction Port~~; Dedicated Tubing; Disposable Tubing; Other:

Water Column Height (ft): 9.18 X Conversion Factor (gal/ft): 0.17 = Casing Volume (gal): 1.56

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: _____ 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								
1231	25.1	7.41	1916	-329.6	24	4.34	0.8	
1232	24.8	7.13	1503	-334.6	21	4.31	1.6	
1233	24.5	7.04	1544	-331.4	19	3.63	2.4	
1234	24.3	6.97	1551	-333.2	17	3.40	3.2	
	- Dewatered @ 3.5 gallons						~~4.0~~	
							~~4.8~~	
1447								
Post-Purge								

Did Well dewater? (Yes) No Total Purge volume (gal): 3.5

Other Comments: 80% = 5.33 DTW = 9.27 (> 2 hours) Purged through flow cell 1447

Sample Info:

Sample ID:	MW-15_20160930	Sample Date and Time:	9/9/16 / ~~1347~~ 1447
Selected Analysis:			

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

Signature: _____ Date: 9/9/16

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Antea™Group, 1-800-477-7411

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 Rd., Oakland		
Project No:	2705191	Field Technician:	DB
Field Point:	MW-16	Date:	9/19/16
Depth to Water (DTW) (ft bgs):	3.19	Well Diameter (in):	(2) 4 6 8 ___
Depth to LNAPL (ft bgs):		Thickness of LNAPL (ft):	
Total Depth of Well (ft bgs):	12.64	Water Column Height (ft):	9.45

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)
~~Extraction Port~~
Dedicated Tubing
Disposable Tubing
Other:

Water Column Height (ft): 9.45 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~~ 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:** **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				-321.1		3.99		
1113	24.01	7.39	3767	-305.9	31	3.61	0.80	6.41
1114	25.2	7.10	3162	-305.5	27	3.22	1.60	6.99
1115	25.8	7.04	3204	-306.3	21	2.74	3.4	6.81
1116	26.0	7.00	3211	-307.4	18	2.69	3.20	
1117	26.2	6.99	3244	-310.1	16	2.61	4.00	
		Well dewatered @ 4 gallons					~~4.8~~ 4	
Post-Purge								

Did Well dewater? (Yes) No Total Purge volume (gal): 4

Other Comments: 80% = 5.08 DTW = 7.20 (> 2 hours) Purged through flow cell

Sample Info:

Sample ID:	MW-16-20160930	Sample Date and Time:	9/19/16 1356
Selected Analysis:	SEE COC		

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

Signature: Date: 9/19/16

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Antea™Group, 1-800-477-7411

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

TEST EQUIPMENT CALIBRATION LOG

PROJECT NAME 449 Hegenberger Rd, Oakland				PROJECT NUMBER 160919-DB1			
EQUIPMENT NAME	EQUIPMENT NUMBER	DATE/TIME OF TEST	STANDARDS USED	EQUIPMENT READING	CALIBRATED TO: OR WITHIN 10%:	TEMP.	INITIALS
YSI 556	09G100101	9/19/16 0830	pH 7.00 10.00 4.00	7.00 10.00 4.00	✓ ✓ ✓	23.6°C	DB
			3900 µS	3900 µS	✓	23.7°C	DB
			100% DO	100%	✓	22.1°C	DB

20160930 2705191 WG_Q_201609 BO

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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
Cooler # ____ of ____

3Q16 GW Event

Required Lab Information:

Lab Name:	Calscience
Address:	7440 Lincoln Way
Garden Grove, CA 92841	
Lab PM:	
Phone/Fax:	714-895-5494
Lab PM email	
Applicable Lab Quote #:	

Required Project Information:

Site ID #:	2705191	Task:	WG_Q_201609
AnteaGrp proj#			
Site Address	449 Hegenberger		
City	Oakland	State	CA 94621
AG PM Name:	Dacre Bush		
Phone/Fax:	805-295-9071		
AG PM Email:	Dacre.bush@anteagroup.com		

Required Invoice Information:

Send Invoice to:	Sandy Hayes				
Address:	11050 White Rock Road, Suite 110				
City/State	Rancho Cordova CA 95670	Phone #:	916-638-2085		
Reimbursement project?		Non-reimbursement project?	Y	Mark one	
Send EDD to	agdataview.us@anteagroup.com				
CC Hardcopy report to	jerilyn.thao@anteagroup.com				
CC Hardcopy report to					

Turn around time (days)	10				
QC level Required: Standard		Special		Mark one	
NJ Reduced Deliverable Package?					
MA MCP Cert?		CT RCP Cert?		Mark One	
Lab Project ID (lab use)					

Valid Matrix Codes

MATRIX		MATRIX	
DRINKING WATER	WP	WATER	W
GROUND WATER	WG	SURFACE WATER	WS
WASTE WATER	WW	WATER QC	WQ
FREE PRODUCT	LF	SLUDGE	SL
SOIL	SO	RINSEATE	WH
OIL	OL	OTHER	OT
WIPE	SW	ANIMAL TISSUE	TA
AMBIENT AIR	AA		
SYE AIR	AE		
SOIL GAS	GS		

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / ,-) Samples IDs MUST BE UNIQUE)	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	SAMPLE DATE	SAMPLE TIME	#OF CONTAINERS	FIELD FILTERED? (Y/N)	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Requested Analyses: 8015TPHDiesel W/Silica	8260 GC/MS GRO	8260BtexMtbeTBA	8260Ethanol	Comments/Lab Sample I.D.
1	MW-11_20160930	WG	G	9/19/16	1220	5	N	X			X					X	X	X	X	
2	MW-13_20160930	WG	G	9/19/16	1100	5	N	X			X					X	X	X	X	
3	MW-15_20160930	WG	G	9/19/16	1447	5	N	X			X					X	X	X	X	
4	MW-16_20160930	WG	G	9/19/16	1336	5	N	X			X					X	X	X	X	
5	MW-3_20160930	WG	G	9/19/16	1325	5	N	X			X					X	X	X	X	
6	MW-9_20160930	WG	G	9/19/16	1315	5	N	X			X					X	X	X	X	
7																				
8																				
9																				
10																				
11																				
12																				

Additional Comments/Special Instructions:

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	9/19/16	1630		9/19/16	1630

Sample Receipt Conditions

	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) UPS COURIER FEDEX US MAIL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER:

DATE Signed

Time:

Temp in °C | Samples on Ice? | Sample intact? | Trip Blank?

Final 11/13/06. AMTait

Appendix D

Certified Laboratory Analytical Report and Data Validation Form

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WORK ORDER NUMBER: 16-09-1698

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Antea Group

Client Project Name: 2705191

Attention: Dacre Bush
11050 White Rock Rd.
Suite 110
Rancho Cordova, CA 95670-6001

Approved for release on 09/30/2016 by:
Terri Chang
Project Manager

ResultLink

Email your PM

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Contents

Client Project Name: 2705191
Work Order Number: 16-09-1698

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Work Order Narrative

Work Order: 16-09-1698 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 09/23/16. They were assigned to Work Order 16-09-1698.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

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Sample Summary

Client:	Antea Group	Work Order:	16-09-1698
	11050 White Rock Rd., Suite 110	Project Name:	2705191
	Rancho Cordova, CA 95670-6001	PO Number:	
		Date/Time Received:	09/23/16 08:40
		Number of Containers:	30
Attn:	Dacre Bush		

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
MW-11_20160930	16-09-1698-1	09/19/16 12:20	5	Aqueous
MW-13_20160930	16-09-1698-2	09/19/16 11:00	5	Aqueous
MW-15_20160930	16-09-1698-3	09/19/16 14:47	5	Aqueous
MW-16_20160930	16-09-1698-4	09/19/16 13:36	5	Aqueous
MW-3_20160930	16-09-1698-5	09/19/16 13:25	5	Aqueous
MW-9_20160930	16-09-1698-6	09/19/16 13:15	5	Aqueous

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Analytical Report

Antea Group
11050 White Rock Rd., Suite 110
Rancho Cordova, CA 95670-6001

Project: 2705191

Date Received: 09/23/16
Work Order: 16-09-1698
Preparation: EPA 3510C
Method: EPA 8015B (M)
Units: ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-11_20160930	**16-09-1698-1-D**	**09/19/16 12:20**	**Aqueous**	**GC 47**	**09/23/16**	**09/27/16 16:16**	**160923B12S**

Comment(s): - The sample extract was subjected to Silica Gel treatment prior to analysis.

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	170	45	1.00	HD,SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	76	68-140	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-13_20160930	**16-09-1698-2-D**	**09/19/16 11:00**	**Aqueous**	**GC 47**	**09/23/16**	**09/27/16 16:32**	**160923B12S**

Comment(s): - The sample extract was subjected to Silica Gel treatment prior to analysis.

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	ND	45	1.00	SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	74	68-140	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-15_20160930	**16-09-1698-3-D**	**09/19/16 14:47**	**Aqueous**	**GC 47**	**09/23/16**	**09/27/16 16:49**	**160923B12S**

Comment(s): - The sample extract was subjected to Silica Gel treatment prior to analysis.

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	ND	45	1.00	SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	85	68-140	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-16_20160930	**16-09-1698-4-D**	**09/19/16 13:36**	**Aqueous**	**GC 47**	**09/23/16**	**09/27/16 17:06**	**160923B12S**

Comment(s): - The sample extract was subjected to Silica Gel treatment prior to analysis.

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	490	45	1.00	HD,SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	85	68-140	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Antea Group
11050 White Rock Rd., Suite 110
Rancho Cordova, CA 95670-6001

Project: 2705191

Date Received: 09/23/16
Work Order: 16-09-1698
Preparation: EPA 3510C
Method: EPA 8015B (M)
Units: ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-3_20160930	**16-09-1698-5-D**	**09/19/16 13:25**	**Aqueous**	**GC 47**	**09/23/16**	**09/27/16 17:22**	**160923B12S**

Comment(s): - The sample extract was subjected to Silica Gel treatment prior to analysis.

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	93	45	1.00	HD,SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	69	68-140	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-9_20160930	**16-09-1698-6-D**	**09/19/16 13:15**	**Aqueous**	**GC 47**	**09/23/16**	**09/27/16 17:39**	**160923B12S**

Comment(s): - The sample extract was subjected to Silica Gel treatment prior to analysis.

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	ND	45	1.00	SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	78	68-140	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-304-1520**	**N/A**	**Aqueous**	**GC 47**	**09/23/16**	**09/27/16 12:23**	**160923B12S**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	ND	50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	96	68-140	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Antea Group
11050 White Rock Rd., Suite 110
Rancho Cordova, CA 95670-6001

Date Received: 09/23/16
Work Order: 16-09-1698
Preparation: EPA 5030C
Method: GC/MS / EPA 8260B
Units: ug/L

Project: 2705191

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-11_20160930	**16-09-1698-1-B**	**09/19/16 12:20**	**Aqueous**	**GC/MS LL**	**09/27/16**	**09/27/16 18:34**	**160927L012**

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	0.50	1.00	
Ethylbenzene	ND	1.0	1.00	
Toluene	ND	1.0	1.00	
p/m-Xylene	ND	1.0	1.00	
o-Xylene	ND	1.0	1.00	
Xylenes (total)	ND	1.0	1.00	
Methyl-t-Butyl Ether (MTBE)	7.6	1.0	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	1.00	
Ethanol	ND	100	1.00	
Gasoline Range Organics (C6-C12)	ND	50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	105	78-126	
1,2-Dichloroethane-d4	128	75-135	
Toluene-d8	100	80-120	
Toluene-d8-TPPH	97	88-112	
1,4-Bromofluorobenzene	91	80-120	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Antea Group
11050 White Rock Rd., Suite 110
Rancho Cordova, CA 95670-6001

Date Received: 09/23/16
Work Order: 16-09-1698
Preparation: EPA 5030C
Method: GC/MS / EPA 8260B
Units: ug/L

Project: 2705191

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-13_20160930	**16-09-1698-2-B**	**09/19/16 11:00**	**Aqueous**	**GC/MS LL**	**09/27/16**	**09/27/16 19:05**	**160927L012**

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	0.50	1.00	
Ethylbenzene	ND	1.0	1.00	
Toluene	ND	1.0	1.00	
p/m-Xylene	ND	1.0	1.00	
o-Xylene	ND	1.0	1.00	
Xylenes (total)	ND	1.0	1.00	
Methyl-t-Butyl Ether (MTBE)	20	1.0	1.00	
Tert-Butyl Alcohol (TBA)	30	10	1.00	
Ethanol	ND	100	1.00	
Gasoline Range Organics (C6-C12)	ND	50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	113	78-126	
1,2-Dichloroethane-d4	130	75-135	
Toluene-d8	101	80-120	
Toluene-d8-TPPH	98	88-112	
1,4-Bromofluorobenzene	91	80-120	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Antea Group
11050 White Rock Rd., Suite 110
Rancho Cordova, CA 95670-6001

Date Received: 09/23/16
Work Order: 16-09-1698
Preparation: EPA 5030C
Method: GC/MS / EPA 8260B
Units: ug/L

Project: 2705191

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-15_20160930	**16-09-1698-3-B**	**09/19/16 14:47**	**Aqueous**	**GC/MS LL**	**09/27/16**	**09/27/16 19:36**	**160927L012**

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	0.50	1.00	
Ethylbenzene	ND	1.0	1.00	
Toluene	ND	1.0	1.00	
p/m-Xylene	ND	1.0	1.00	
o-Xylene	ND	1.0	1.00	
Xylenes (total)	ND	1.0	1.00	
Methyl-t-Butyl Ether (MTBE)	47	1.0	1.00	
Tert-Butyl Alcohol (TBA)	35	10	1.00	
Ethanol	ND	100	1.00	
Gasoline Range Organics (C6-C12)	ND	50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	105	78-126	
1,2-Dichloroethane-d4	130	75-135	
Toluene-d8	99	80-120	
Toluene-d8-TPPH	96	88-112	
1,4-Bromofluorobenzene	92	80-120	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Antea Group
11050 White Rock Rd., Suite 110
Rancho Cordova, CA 95670-6001

Project: 2705191

Date Received: 09/23/16
Work Order: 16-09-1698
Preparation: EPA 5030C
Method: GC/MS / EPA 8260B
Units: ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-16_20160930	**16-09-1698-4-B**	**09/19/16 13:36**	**Aqueous**	**GC/MS LL**	**09/27/16**	**09/27/16 20:08**	**160927L012**

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	0.50	1.00	
Ethylbenzene	ND	1.0	1.00	
Toluene	ND	1.0	1.00	
p/m-Xylene	ND	1.0	1.00	
o-Xylene	ND	1.0	1.00	
Xylenes (total)	ND	1.0	1.00	
Methyl-t-Butyl Ether (MTBE)	5.7	1.0	1.00	
Tert-Butyl Alcohol (TBA)	87	10	1.00	
Ethanol	ND	100	1.00	
Gasoline Range Organics (C6-C12)	ND	50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	116	78-126	
1,2-Dichloroethane-d4	131	75-135	
Toluene-d8	101	80-120	
Toluene-d8-TPPH	98	88-112	
1,4-Bromofluorobenzene	92	80-120	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Antea Group
11050 White Rock Rd., Suite 110
Rancho Cordova, CA 95670-6001

Date Received: 09/23/16
Work Order: 16-09-1698
Preparation: EPA 5030C
Method: GC/MS / EPA 8260B
Units: ug/L

Project: 2705191

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-3_20160930	**16-09-1698-5-B**	**09/19/16 13:25**	**Aqueous**	**GC/MS LL**	**09/27/16**	**09/27/16 20:39**	**160927L012**

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	0.50	1.00	
Ethylbenzene	ND	1.0	1.00	
Toluene	ND	1.0	1.00	
p/m-Xylene	ND	1.0	1.00	
o-Xylene	ND	1.0	1.00	
Xylenes (total)	ND	1.0	1.00	
Methyl-t-Butyl Ether (MTBE)	21	1.0	1.00	
Tert-Butyl Alcohol (TBA)	47	10	1.00	
Ethanol	ND	100	1.00	
Gasoline Range Organics (C6-C12)	400	50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	115	78-126	
1,2-Dichloroethane-d4	130	75-135	
Toluene-d8	101	80-120	
Toluene-d8-TPPH	99	88-112	
1,4-Bromofluorobenzene	104	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Antea Group
11050 White Rock Rd., Suite 110
Rancho Cordova, CA 95670-6001

Date Received: 09/23/16
Work Order: 16-09-1698
Preparation: EPA 5030C
Method: GC/MS / EPA 8260B
Units: ug/L

Project: 2705191

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-9_20160930	**16-09-1698-6-B**	**09/19/16 13:15**	**Aqueous**	**GC/MS LL**	**09/27/16**	**09/27/16 21:10**	**160927L012**

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	0.50	1.00	
Ethylbenzene	ND	1.0	1.00	
Toluene	ND	1.0	1.00	
p/m-Xylene	ND	1.0	1.00	
o-Xylene	ND	1.0	1.00	
Xylenes (total)	ND	1.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	1.00	
Ethanol	ND	100	1.00	
Gasoline Range Organics (C6-C12)	ND	50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	103	78-126	
1,2-Dichloroethane-d4	126	75-135	
Toluene-d8	98	80-120	
Toluene-d8-TPPH	97	88-112	
1,4-Bromofluorobenzene	91	80-120	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Antea Group
11050 White Rock Rd., Suite 110
Rancho Cordova, CA 95670-6001

Date Received: 09/23/16
Work Order: 16-09-1698
Preparation: EPA 5030C
Method: GC/MS / EPA 8260B
Units: ug/L

Project: 2705191

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-767-7524**	**N/A**	**Aqueous**	**GC/MS LL**	**09/27/16**	**09/27/16 13:23**	**160927L012**

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	0.50	1.00	
Ethylbenzene	ND	1.0	1.00	
Toluene	ND	1.0	1.00	
p/m-Xylene	ND	1.0	1.00	
o-Xylene	ND	1.0	1.00	
Xylenes (total)	ND	1.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	1.00	
Ethanol	ND	100	1.00	
Gasoline Range Organics (C6-C12)	ND	50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	106	78-126	
1,2-Dichloroethane-d4	127	75-135	
Toluene-d8	101	80-120	
Toluene-d8-TPPH	98	88-112	
1,4-Bromofluorobenzene	92	80-120	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Quality Control - Spike/Spike Duplicate

Antea Group		Date Received:	09/23/16
11050 White Rock Rd., Suite 110		Work Order:	16-09-1698
Rancho Cordova, CA 95670-6001		Preparation:	EPA 5030C
		Method:	GC/MS / EPA 8260B
Project: 2705191			Page 1 of 1

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
16-09-1480-7	**Sample**	**Aqueous**	**GC/MS LL**	**09/27/16**	**09/27/16 13:55**	**160927S002**
16-09-1480-7	**Matrix Spike**	**Aqueous**	**GC/MS LL**	**09/27/16**	**09/27/16 14:26**	**160927S002**
16-09-1480-7	**Matrix Spike Duplicate**	**Aqueous**	**GC/MS LL**	**09/27/16**	**09/27/16 14:57**	**160927S002**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Benzene	1216	500.0	1522	61	1531	63	74-122	1	0-21	3
Ethylbenzene	512.0	500.0	1025	103	1021	102	77-125	0	0-24	
Toluene	42.82	500.0	575.1	106	587.9	109	72-126	2	0-23	
p/m-Xylene	103.7	1000	1221	112	1227	112	63-129	1	0-25	
o-Xylene	13.50	500.0	574.8	112	579.6	113	62-128	1	0-24	
Methyl-t-Butyl Ether (MTBE)	ND	500.0	499.6	100	505.4	101	68-134	1	0-21	
Tert-Butyl Alcohol (TBA)	ND	2500	2472	99	2414	97	65-143	2	0-30	
Ethanol	ND	5000	4379	88	4973	99	34-178	13	0-58	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

Antea Group	Date Received: 09/23/16
11050 White Rock Rd., Suite 110	Work Order: 16-09-1698
Rancho Cordova, CA 95670-6001	Preparation: EPA 3510C
	Method: EPA 8015B (M)
Project: 2705191	Page 1 of 2

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-15-304-1520	**LCS**	**Aqueous**	**GC 47**	**09/23/16**	**09/27/16 12:39**	**160923B12S**
099-15-304-1520	**LCSD**	**Aqueous**	**GC 47**	**09/23/16**	**09/27/16 12:56**	**160923B12S**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
TPH as Diesel	2000	1780	89	1810	91	75-117	2	0-13	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

Antea Group
11050 White Rock Rd., Suite 110
Rancho Cordova, CA 95670-6001

Project: 2705191

Date Received: 09/23/16
Work Order: 16-09-1698
Preparation: EPA 5030C
Method: GC/MS / EPA 8260B
Page 2 of 2

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-767-7524	**LCS**	**Aqueous**	**GC/MS LL**	**09/27/16**	**09/27/16 11:50**	**160927L012**
099-12-767-7524	**LCSD**	**Aqueous**	**GC/MS LL**	**09/27/16**	**09/27/16 12:21**	**160927L012**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Benzene	50.00	48.00	96	N/A	N/A	80-120	N/A	0-20	
Ethylbenzene	50.00	52.56	105	N/A	N/A	80-123	N/A	0-20	
Toluene	50.00	51.72	103	N/A	N/A	80-120	N/A	0-20	
p/m-Xylene	100.0	108.0	108	N/A	N/A	75-123	N/A	0-25	
o-Xylene	50.00	53.62	107	N/A	N/A	74-122	N/A	0-25	
Methyl-t-Butyl Ether (MTBE)	50.00	48.54	97	N/A	N/A	69-129	N/A	0-22	
Tert-Butyl Alcohol (TBA)	250.0	263.3	105	N/A	N/A	69-129	N/A	0-25	
Ethanol	500.0	440.3	88	N/A	N/A	42-168	N/A	0-20	
Gasoline Range Organics (C6-C12)	1000	1028	103	990.3	99	65-135	4	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Sample Analysis Summary Report

Work Order: 16-09-1698 Page 1 of 1

Method	Extraction	Chemist ID	Instrument	Analytical Location
EPA 8015B (M)	EPA 3510C	972	GC 47	1
GC/MS / EPA 8260B	EPA 5030C	867	GC/MS LL	2

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Glossary of Terms and Qualifiers

Work Order: 16-09-1698 Page 1 of 1

Qualifiers	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
CI	See case narrative.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.
	Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.
	Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.
	A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

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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 1
Cooler # ____ of ____

16-09-1698

3Q16 GW Event

Required Lab Information:

Lab Name:	Calscience
Address:	7440 Lincoln Way
Garden Grove, CA 92841	
Lab PM:	
Phone/Fax:	714-895-5494
Lab PM email	
Applicable Lab Quote #:	

Required Project Information:

Site ID #:	2705191
Task:	WG_Q_201609
AnteaGrp proj#	
Site Address	449 Hegenberger
City	Oakland
State	CA 94621
AG PM Name:	Dacre Bush
Phone/Fax:	805-295-9071
AG PM Email:	Dacre.bush@anteagroup.com

Required Invoice Information:

Send Invoice to:	Sandy Hayes
Address:	11050 White Rock Road, Suite 110
City/State	Rancho Cordova CA 95670
Phone #:	916-638-2085
Reimbursement project?	
Non-reimbursement project?	Y
Mark one	
Send EDD to	agdataview.us@anteagroup.com
CC Hardcopy report to	jerilyn.thao@anteagroup.com
CC Hardcopy report to	

Turn around time (days)	10
QC level Required: Standard	Special — Mark one
NJ Reduced Deliverable Package?	
MA MCP Cert?	CT RCP Cert? — Mark One
Lab Project ID (lab use)	

Valid Matrix Codes

MATRIX		MATRIX	
DRINKING WATER	WP	WATER	W
GROUND WATER	WG	SURFACE WATER	WS
WASTE WATER	WW	WATER QC	WQ
FREE PRODUCT	LF	SLUDGE	SL
SOIL	SO	RINSEATE	WH
OIL	OIL	OTHER	OT
WIPE	SW	ANIMAL TISSUE	TA
AMBIENT AIR	AA		
SVE AIR	AE		
SOIL GAS	GS		

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / ,-) Samples IDs MUST BE UNIQUE)	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	SAMPLE DATE	SAMPLE TIME	#OF CONTAINERS	FIELD FILTERED? (Y/N)	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Requested Analyses: 8015TPHDiesel W/Silica	8260 GC/MS GRO	8260BtexMtbeTBA	8260Ethanol	Comments/Lab Sample I.D.
1	MW-11_20160930	WG	G	9/19/16	1220	5	N	X			X					X	X	X	X	
2	MW-13_20160930	WG	G	9/19/16	1100	5	N	X			X					X	X	X	X	
3	MW-15_20160930	WG	G	9/19/16	1447	5	N	X			X					X	X	X	X	
4	MW-16_20160930	WG	G	9/19/16	1336	5	N	X			X					X	X	X	X	
5	MW-3_20160930	WG	G	9/19/16	1325	5	N	X			X					X	X	X	X	
6	MW-9_20160930	WG	G	9/19/16	1315	5	N	X			X					X	X	X	X	
7																				
8																				
9																				
10																				
11																				
12																				

Additional Comments/Special Instructions:

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	9/19/16	1630		9/19/16	1630
	9/22/16	1014	ECI	9/22/16	1014
GSO	9/22/16	1730		9/23/16	0840

Sample Receipt Conditions

	Temp in °C	Samples on Ice?	Sample intact?	Custody Seals Intact?
		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) UPS COURIER FEDEX US MAIL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER: DATE Signed: Time:

Final 11/13/06. AMTait

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WORK ORDER NUMBER: 16-09- 1698

SAMPLE RECEIPT CHECKLIST

COOLER 1 OF 1

CLIENT: Area

DATE: 09 / 23 / 2016

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC2A (CF: 0.0°C); Temperature (w/o CF): 2.1 °C (w/ CF): 2.1 °C; ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: 15

CUSTODY SEAL:

Cooler ☑ Present and Intact ☐ Present but Not Intact ☐ Not Present ☐ N/A Checked by: 15

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: ZR

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation chemical(s) noted on COC and/or sample container	☑	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☑	☐	☐
☑ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☑ 3 **VOAh** ☐ VOA**na$_2$** ☐ 100PJ ☐ 100PJ**na$_2$** ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB

☐ 125PB**znna** ☐ 250AGB ☐ 250CGB ☐ 250CGB**s** ☐ 250PB ☐ 250PB**n** ☐ 500AGB ☑ 2 500AGJ ☐ 500AGJ**s**

☐ 500PB ☐ 1AGB ☐ 1AGB**na$_2$** ☐ 1AGB**s** ☐ 1PB ☐ 1PB**na** ☐ _____ ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na$_2$** = $Na_2S_2O_3$, **p** = H_3PO_4, Labeled/Checked by: ZR

s = H_2SO_4, **u** = ultra-pure, **znna** = Zn $(CH_3CO_2)_2$ + NaOH Reviewed by: 1052

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Is the Data Valid? (circle) (Yes) / No

Preservation Temperature (if Known): 2.1 °C

Antea Group Lab Validation Sheet

Project/Client: COP/ELT
Project #: I42705191
Date of Validation: 10/19/16 **Date of Analysis:** 9/27/16 **Sample Date:** 9/19/16
Completed By: Jon F. **Signature:** Jonathan Fillingame
Analytical Lab Used and Report # (if any): Eurofins Calscience 16-09-1698

	Circle or Highlight Yes/No below
1. Was the analysis the one requested?	(Yes) / No
2. Do the sample number(s) on the chain-of-custody (COC) match the one(s) that appear on the laboratory data sheet?	(Yes) / No
3. Were samples prepared (extracted, filtered, etc.) within EPA holding times?	(Yes) / No
4. Once prepared/extracted, were the samples analyzed within the EPA holding times?	(Yes) / No
5. Were Laboratory blanks performed, if so, were they below non-detect?	(Yes) / No
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/m^3,etc.)	(Yes) / No
7. Were appropriate Matrix Spike (MS) and Matrix Spike Duplicate (MSD) samples included in the laboratory batch sample?	(Yes) / No
8. In lieu of MS/ MSD, were surrogate spike (SS) or surrogate spike duplicate (SSD) samples included in the laboratory batch samples?	Yes / No (N/
9. Were MS/ MSD (or SS/SSD) within the acceptable range of % recovery (i.e., approx 80-120% depending on analyte)?	Yes / (No)
10. Were MS/MSD (or SS/SSD) values used to calculate Relative Percent Difference (RPD)?	(Yes) / No
11. Were Relative Percent Difference values within the acceptable range (i.e. ± 25%)?	(Yes) / No

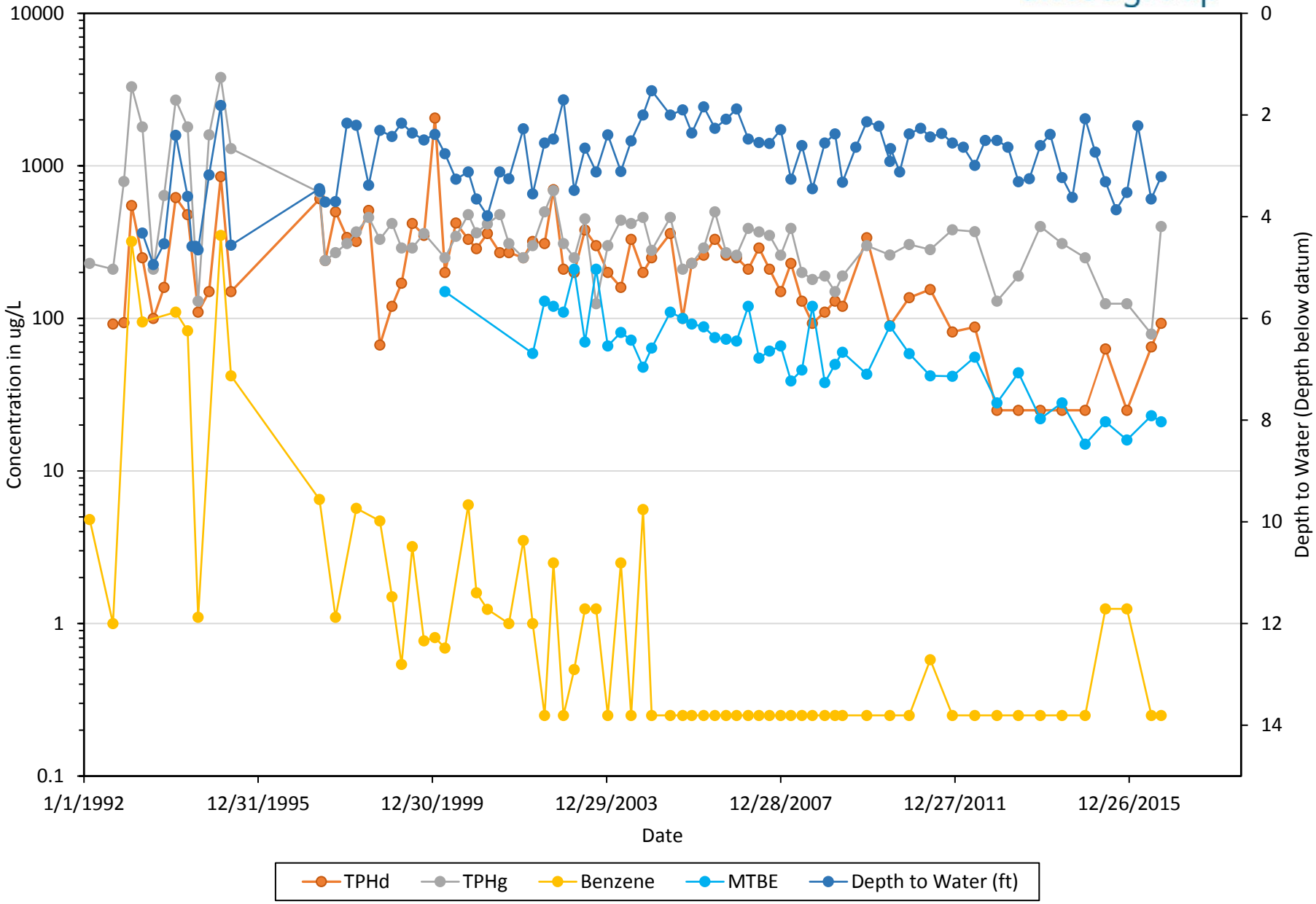
If any answer is no, explain why and what corrective action was taken:

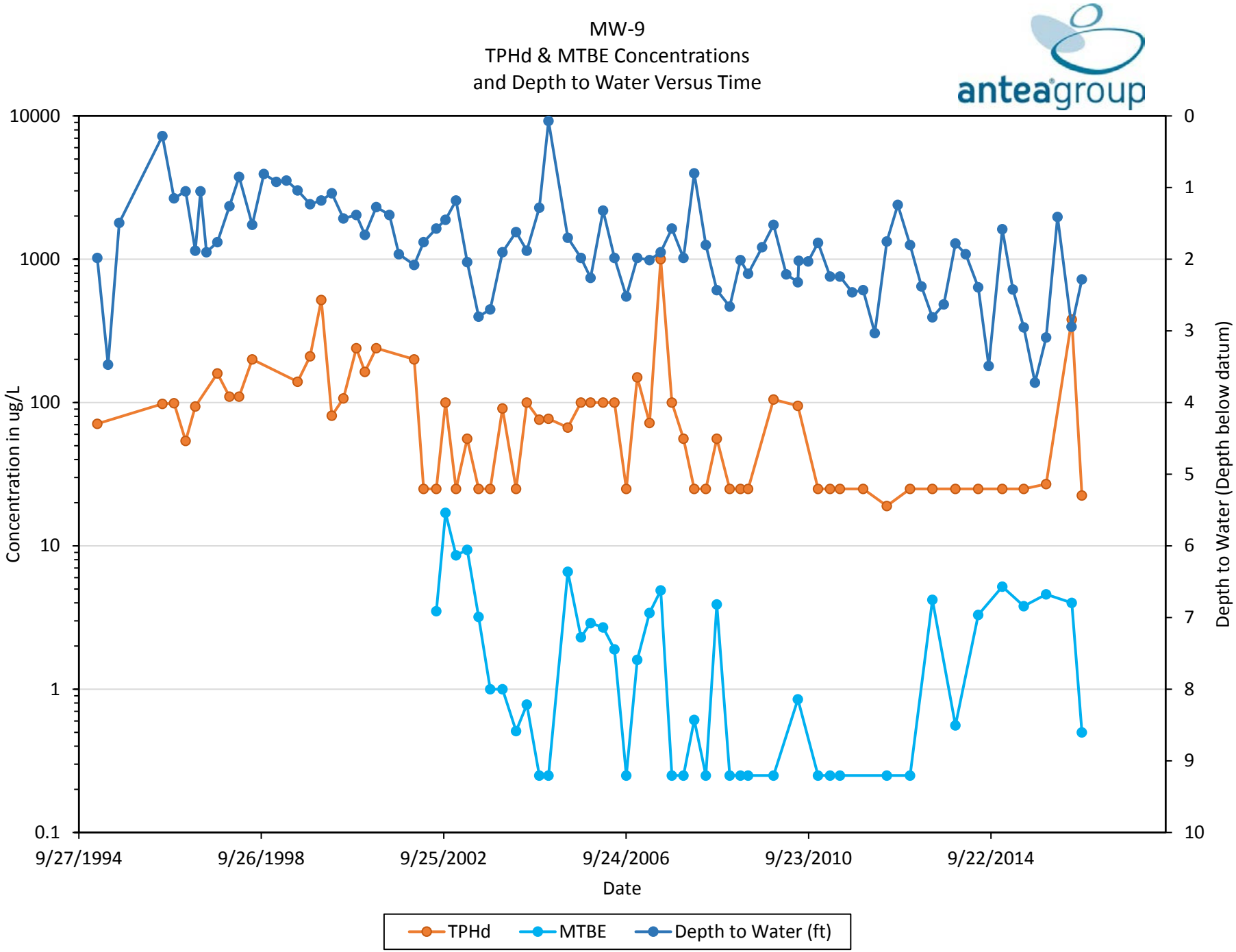
9. Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control. (Noted on Benzene)

Appendix E

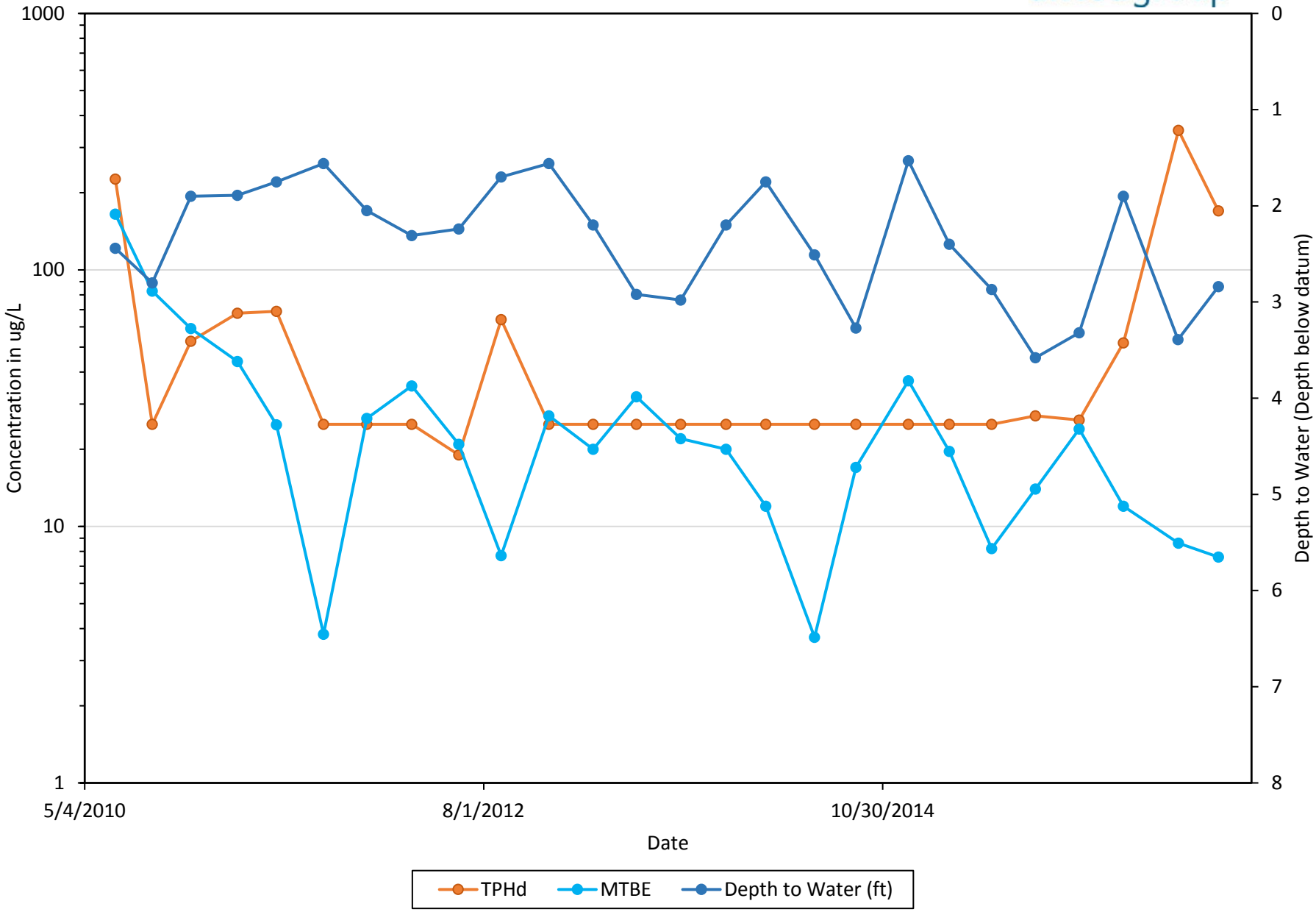
Time Series Graphs

MW-3
TPHd, TPHg, Benzene, & MTBE Concentrations
and Depth to Water Versus Time

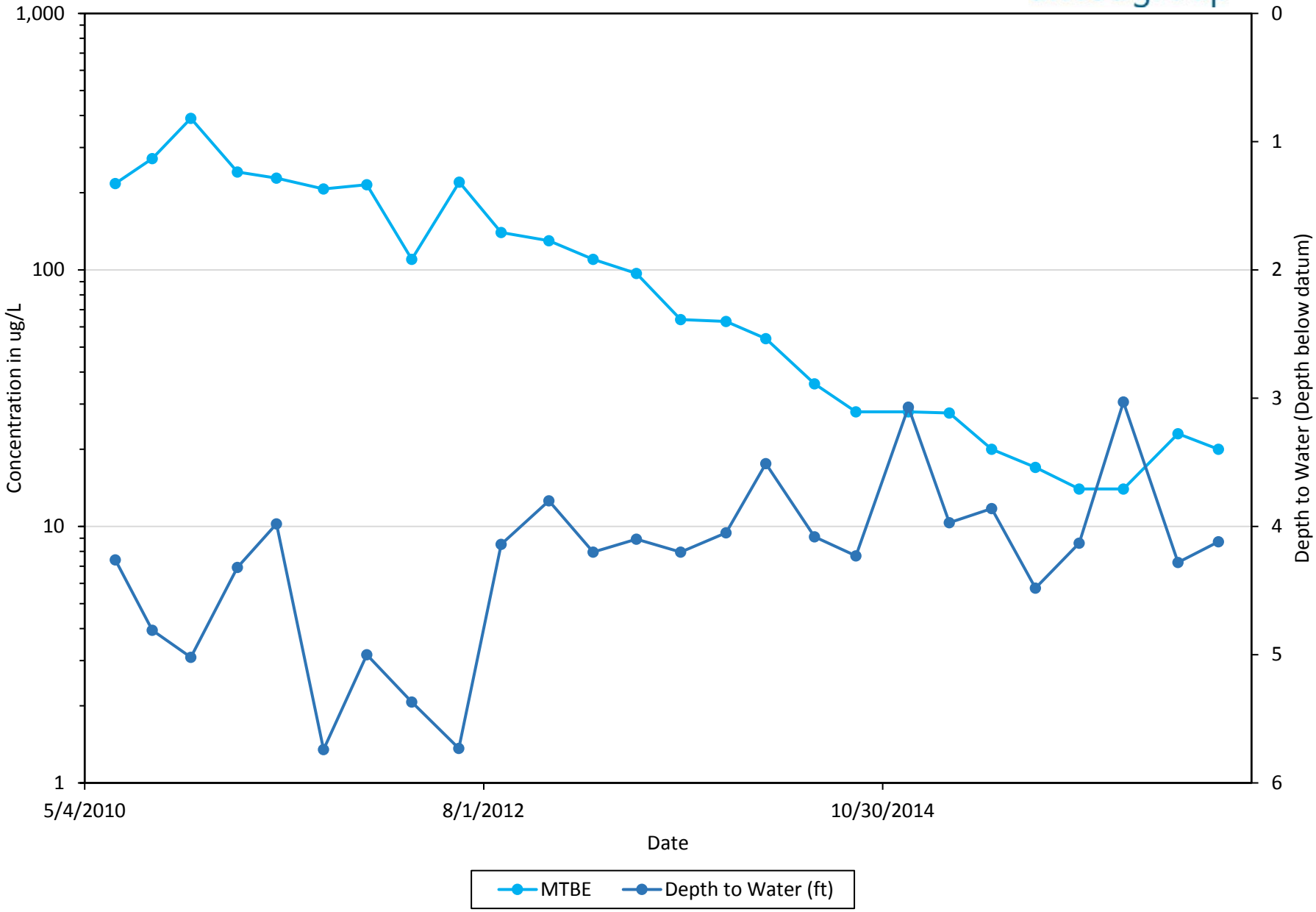



MW-9
TPHd & MTBE Concentrations
and Depth to Water Versus Time
anteagroup
Concentration in ug/L
10000
1000
100
10
1
0.1
Depth to Water (Depth below datum)
0
1
2
3
4
5
6
7
8
9
10
9/27/1994
9/26/1998
9/25/2002
9/24/2006
9/23/2010
9/22/2014
Date
TPHd
MTBE
Depth to Water (ft)

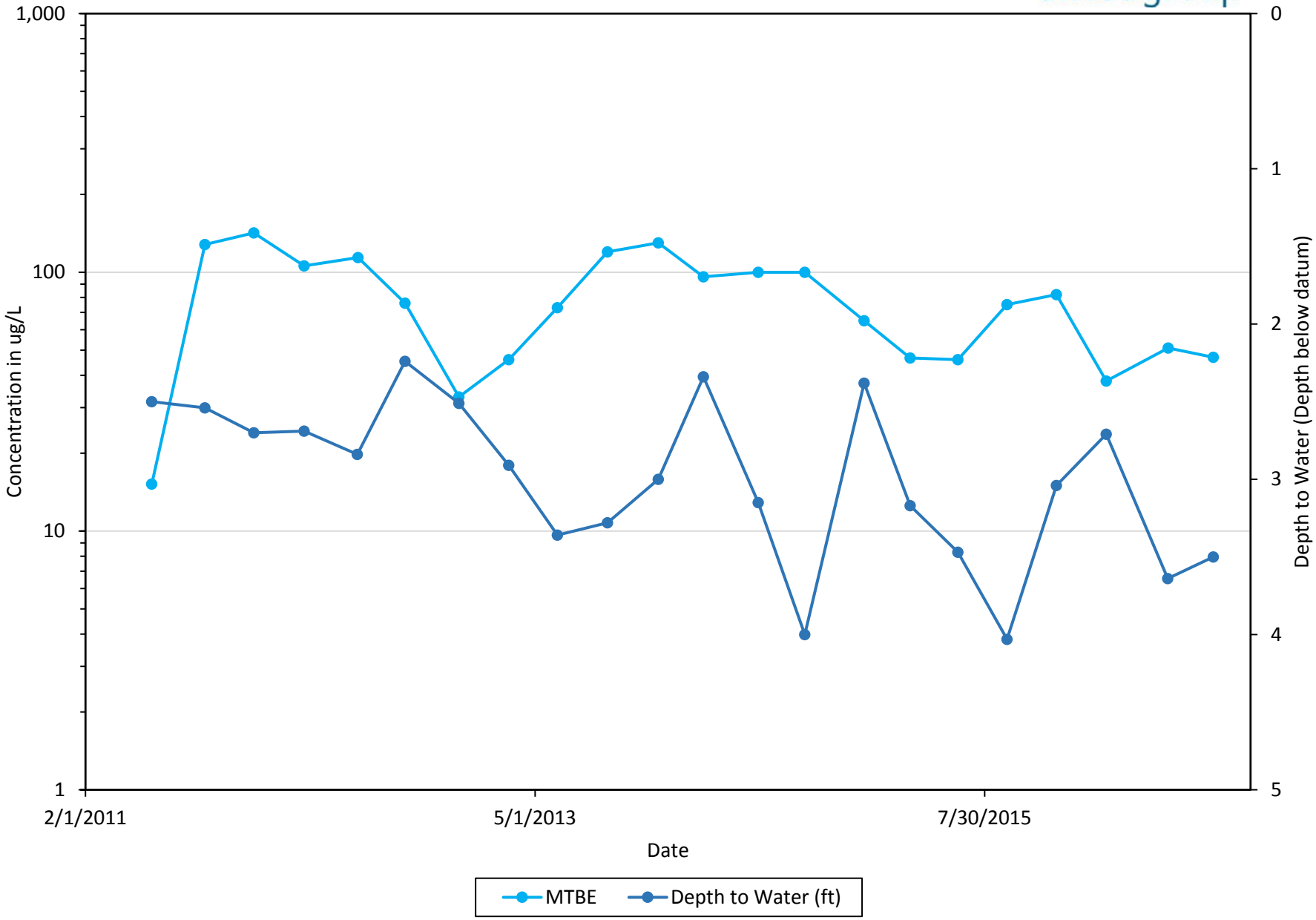
MW-11
TPHd & MTBE Concentrations
and Depth to Water Versus Time



MW-13
MTBE Concentrations
and Depth to Water Versus Time



MW-15
MTBE Concentrations
and Depth to Water Versus Time



MW-16
TPHd & MTBE Concentrations
and Depth to Water Versus Time