September 28, 2017

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

Subject: **3Q17 Quarterly Summary Report**

Site: **76 Station No. 5191/5043**
449 Hegenberger Road
Oakland, California
Fuel Leak Case No. RO0000219

Dear Mr. Nowell;

I have read and acknowledge the content, recommendations and/or conclusions contained in the attached document or report submitted on my behalf to ACDEH's FTP server and the SWRCB's GeoTracker website.

If you have any questions or need additional information, please call:

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Facilities and Compliance Manager
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Sincerely,

United Pacific

Allan Faass
Facilities and Compliance Manager

Attachment

Quarterly Summary Report, Third Quarter 2017

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
September 28, 2017

Prepared for:
Mr. Keith Nowell
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Services Agency
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Quarterly Summary Report, Third Quarter 2017

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

1.0 INTRODUCTION

Antea®Group is submitting this *Quarterly Summary Report, Third Quarter 2017*, 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. 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 the history of environmental investigations and remediation activities.

This report summarizes the data obtained from the recent groundwater monitoring and sampling event conducted on August 1, 2017. Included herein are site figures, summary groundwater data tables, and a discussion of trends. This report has received a technical review by Ms. Wendy Linck, California Professional Geologist No. 6934.

1.1 Work Performed [Third Quarter 2017]

1. Antea Group submitted the *Quarterly Summary Report, Second Quarter 2017*, dated August 7, 2017 to the Alameda County Health Care Services Agency (ACHCSA).
2. Antea Group subcontractor Blaine Tech Services, Inc. (Blaine Tech) conducted the third quarter 2017 groundwater monitoring and sampling event on August 1, 2017.

1.2 Work Proposed [Fourth Quarter 2017]

1. Antea Group will submit the *Quarterly Summary Report, Third Quarter 2017* (contained herein) to the ACHCSA.
2. Blaine Tech will conduct the fourth quarter 2017 groundwater monitoring and sampling event.
3. Per ACHCSA's September 15, 2017 letter of conditional approval of Antea Group's August 7, 2017 *Work Plan – Monitoring Well installation Addendum* (Work Plan), Antea Group will schedule a California-licensed C-57 driller to advance offsite downgradient soil boring SB-19. The objective of this boring is to close a data gap by delineating the contaminant plume in the downgradient direction relative to the site. Antea Group staff professional will oversee the drilling and will collect samples per the Work Plan and ACHCSA's requests in their September 15, 2017 letter.
4. Antea Group will submit a report which presents the results of the offsite investigation and additional information required by ACHCSA needed for site 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 and MW-6 (last measured in 1999)
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: 9.97 (MW-9, Q4 2016)
Local receptors:	See **Appendix A**
Current remediation technique	None

2.1 Regulatory Correspondence

There has been no correspondence between Antea Group and the ACHCSA during the current reporting period.

2.2 Site Remediation Activities

There have been no remedial activities during the current reporting period. Remediation was concluded in November 2016, and a request for closure was submitted in Q1 2017.

2.3 Groundwater Monitoring

During the third quarter 2017 groundwater monitoring and sampling event, six monitoring wells were gauged and purged, and four of the six monitoring wells were sampled by Blaine Tech per standard sampling protocol. Copies of Blaine Tech's field data sheets are presented as **Appendix B**. 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:	August 1, 2017
Wells gauged:	MW-3, MW-9, MW-11, MW-13, MW-15, and MW-16
Wells sampled:	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 B**):	Temperature, pH, Conductivity, Dissolved Oxygen (DO), Oxidation Reduction Potential (ORP), and Turbidity

Wells with measurable LNAPL:	None
Current depth to water range (feet BTOC):	Min: 2.97 (MW-9) Max: 4.03 (MW-13)
Current groundwater elevation range (feet):	Min: 7.03 (MW-13) Max: 7.97 (MW-9)
Change in water depths from previous event (average change for all gauged wells):	0.31 foot increase
Groundwater flow direction and gradient in foot per foot (ft/ft):	Southwest at 0.008 to 0.0008

2.3.1 Groundwater Flow Gradient and Directional Trends

The groundwater elevations calculated using the data collected during the third quarter 2017 monitoring event were used to determine a southwest groundwater flow direction and gradient of 0.008 in the north side of the site to 0.0008 in the center to south side of the site (**Figure 3**). **Table 4** summarizes historical gradients and **Figure 4** shows historical groundwater flow interpretations from 1992 to the present.

2.3.2 Groundwater Quality Data

Groundwater samples collected during the third quarter 2017 groundwater 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 C**. Groundwater samples were analyzed for the following:

- Total petroleum hydrocarbons as diesel range organics (TPHd) [silica gel preparation] by 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 table summarizes the frequency of detection and the range of concentrations detected during the third quarter 2017 sampling event. Only constituents detected above the laboratory reporting limit are presented 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 4	55 (MW-11)	300 (MW-15)
TPHg	1 of 4	140 (MW-16)	140 (MW-16)
MTBE	4 of 4	3.1 (MW-15)	12 (MW-13)

TBA	2 of 4	42 (MW-15)	65 (MW-13)

Explanations:
µg/L = Micrograms per liter LRL = Laboratory reporting limit
* - All results for TPHd had the following qualifier: "HD - The chromatographic pattern was inconsistent with the profile of the reference fuel standard"

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 D**. Overall, TPHg, TPHd, benzene, and MTBE concentrations have been stable to decreasing at the monitoring well locations. The distribution of dissolved phase TPHg, benzene, and MTBE is shown on **Figure 5**. Note: benzene and MTBE concentrations did not exceed the Low-Threat Closure thresholds of 1,000 µg/L.

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 completing a data validation checklist for the August 2017 Calscience analytical results. Antea Group's data validation checklist is included with the Calscience laboratory report in **Appendix C**.

Laboratory QA/QC Performed:	Yes (validated by Antea Group)
Laboratory Data Qualifiers:	Yes – one qualifier*
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 all monitoring wells)

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

3.0 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. Historically, groundwater elevations beneath the site have ranged from approximately 2.77 feet to 9.97 feet above datum.

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

backfill to remediate the remaining constituents of concern estimated in groundwater.

During the recent monitoring event, MTBE was reported in five of the six monitoring wells; however, none of the reported concentrations exceeded the California Low-Threat Closure Policy threshold of 1,000 µg/L MTBE. Benzene was not reported in any of the six monitoring wells.

4.0 CONCLUSIONS

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. The petroleum hydrocarbon impacts monitored and reported during the third quarter 2017, are consistent with the continued declining trends in concentrations. Remaining impact to the soil and groundwater is well below California Low-Threat Closure Policy thresholds.

Antea Group will collect a grab groundwater samples and soil from the off-site location requested by ACHCSA. A report of finding and additional information required by ACHCSA in the closure denial will be submitted in order to complete the closure process.

5.0 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.

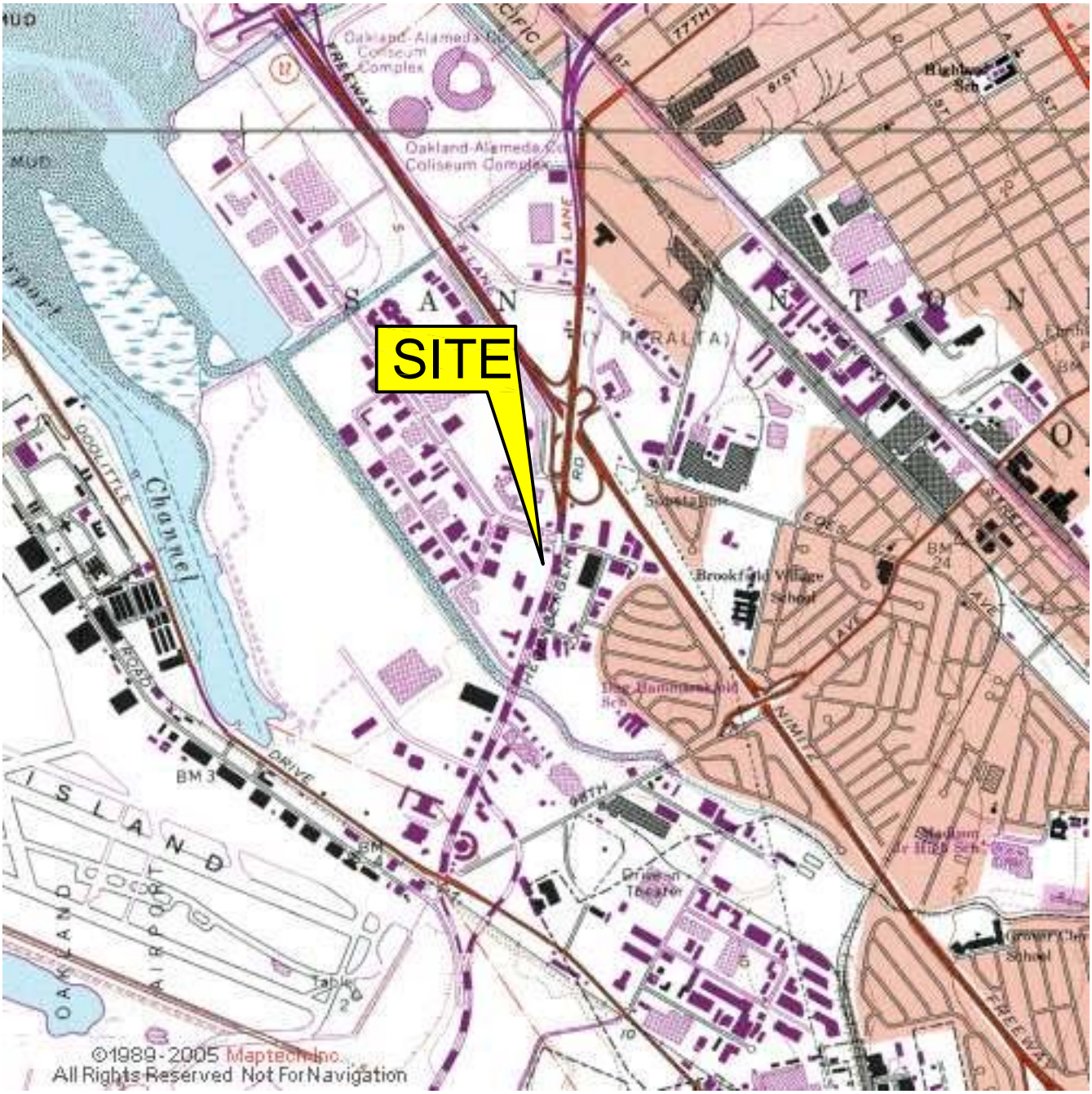
Licensed Approver:

Wendy Linck, PG
Consultant
California Registered Professional Geologist No. 6934
Antea Group

PROFESSIONAL GEOLOGIST
WENDY LINCK
NO. 6934
EXPIRES 4/30/18
STATE OF CALIFORNIA

cc: GeoTracker (upload)

Figures



North

0 900 1800 FT

SCALE

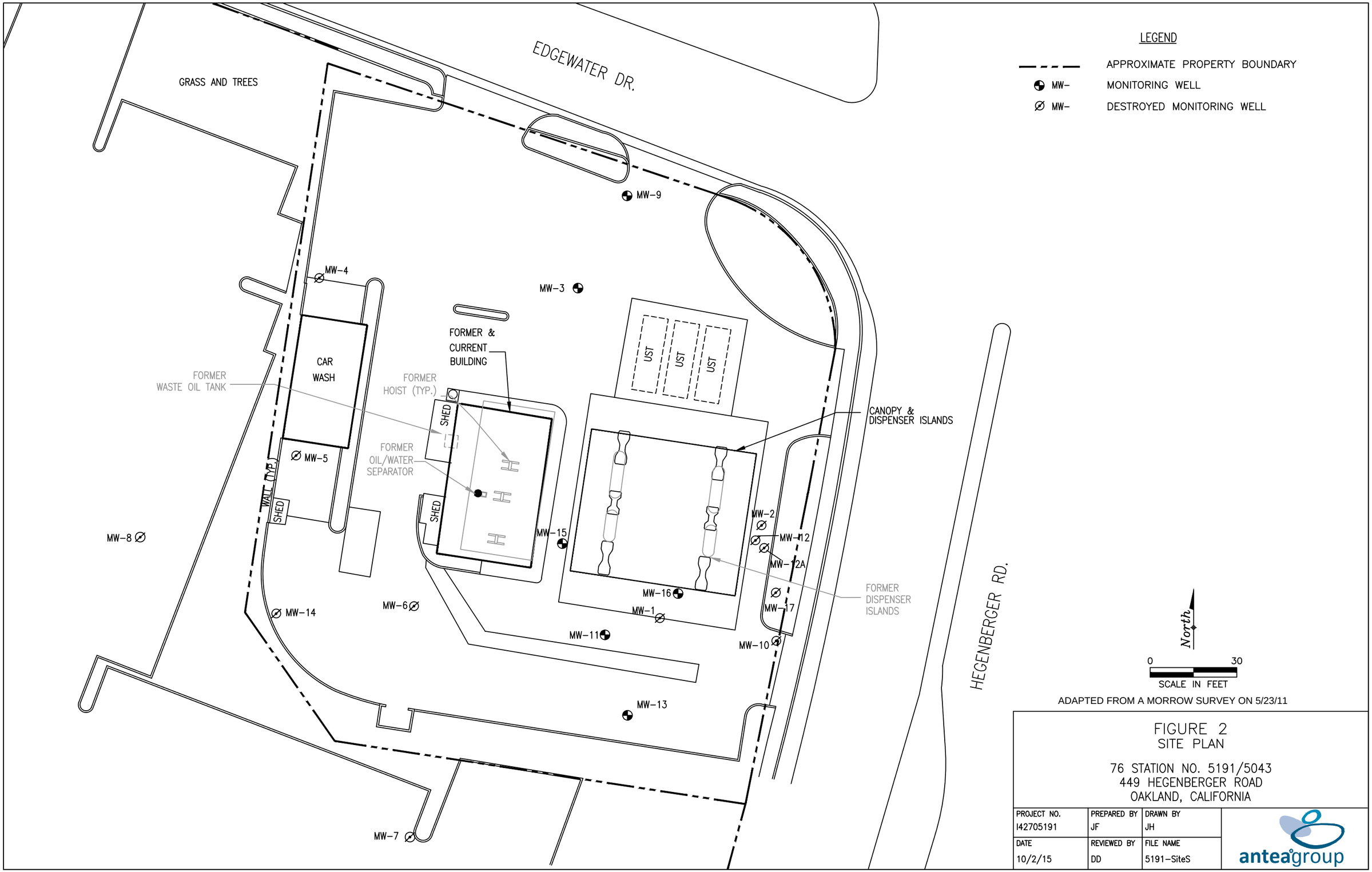
SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC MAP, OAKLAND EAST QUADRANGLE (1973)

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
(7.97)

7.80

7.70

0.008 ft/ft

7.80

MW-3
(7.66)

7.70

MW-4

FORMER &
CURRENT
BUILDING

UST

UST

UST

CAR
WASH

FORMER
WASTE OIL TANK

FORMER
HOIST (TYP.)

SHED

CANOPY &
DISPENSER ISLANDS

0.0008 ft/ft

FORMER
OIL/WATER
SEPARATOR

MW-5

WALL (TYP.)

SHED

SHED

7.60

MW-2

MW-15
(7.60)

MW-12

MW-12A

MW-8

MW-16
(7.62)

FORMER
DISPENSER
ISLANDS

MW-17

MW-1

7.60

MW-14

MW-6

MW-11
(*7.03)

MW-10

FENCE

HEGENBERGER RD.

MW-13
(*7.05)

MW-7

LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- MW- MONITORING WELL
- MW- DESTROYED MONITORING WELL
- (7.66) GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL (ft/msl)
- * WELL ELEVATIONS ARE ABOVE THE TOP OF THE SCREENED INTERVAL; THEREFORE, WATER LEVEL ELEVATIONS WERE NOT USED IN GROUNDWATER CONTOURING
- 7.60 GROUNDWATER ELEVATION CONTOUR (ft/msl)
  –DASHED WHERE INFERRED
- 0.008 ft/ft GROUNDWATER FLOW DIRECTION WITH HYDRAULIC GRADIENT

North

0 30

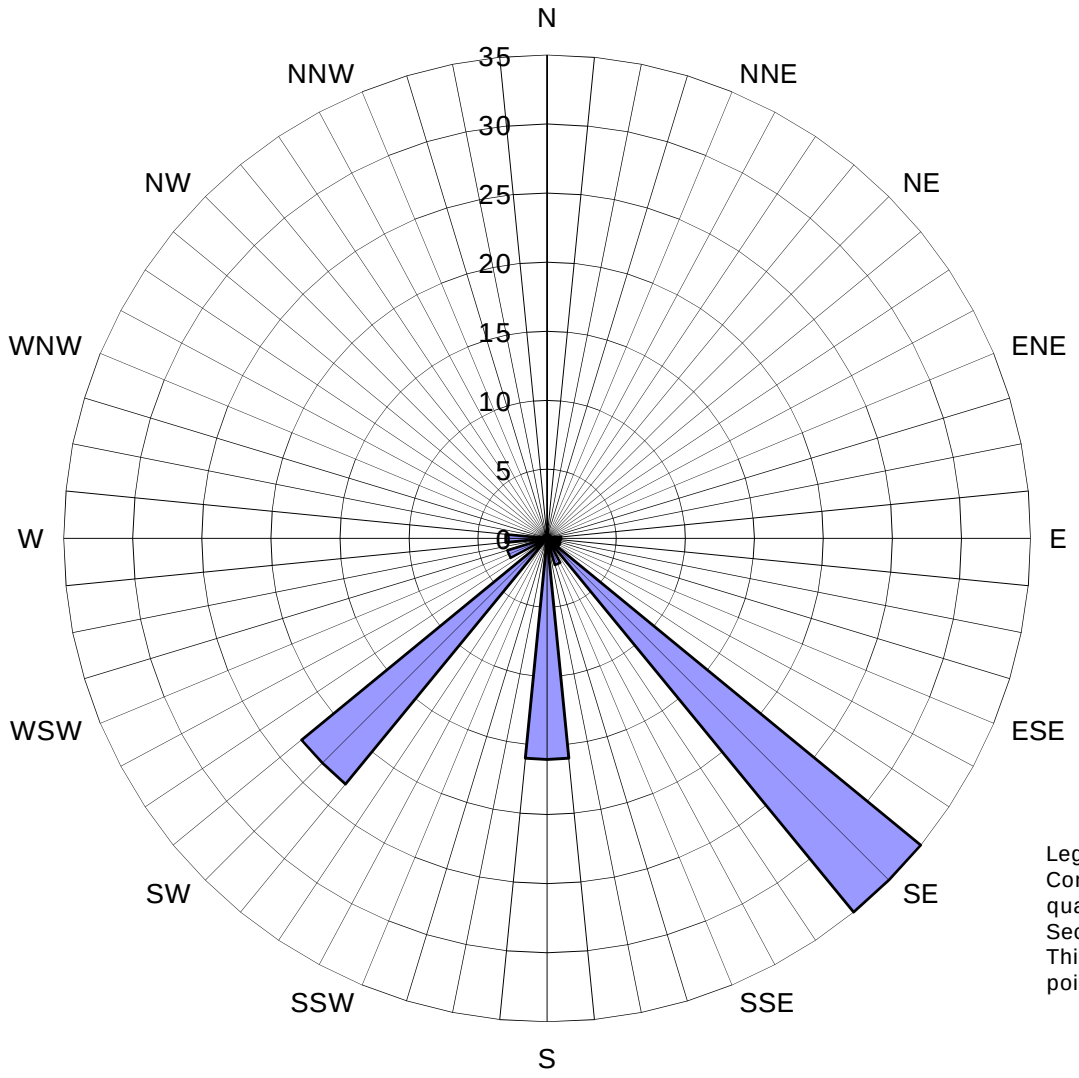
SCALE IN FEET

FIGURE 3
GROUNDWATER ELEVATION MAP
AUGUST 1, 2017
76 STATION NO. 5191/5043
449 HEGENBERGER ROAD
OAKLAND, CALIFORNIA

PROJECT NO.	PREPARED BY	DRAWN BY
142705191	JF	JH
DATE	REVIEWED BY	FILE NAME
9/28/17	BP	5191-SiteS

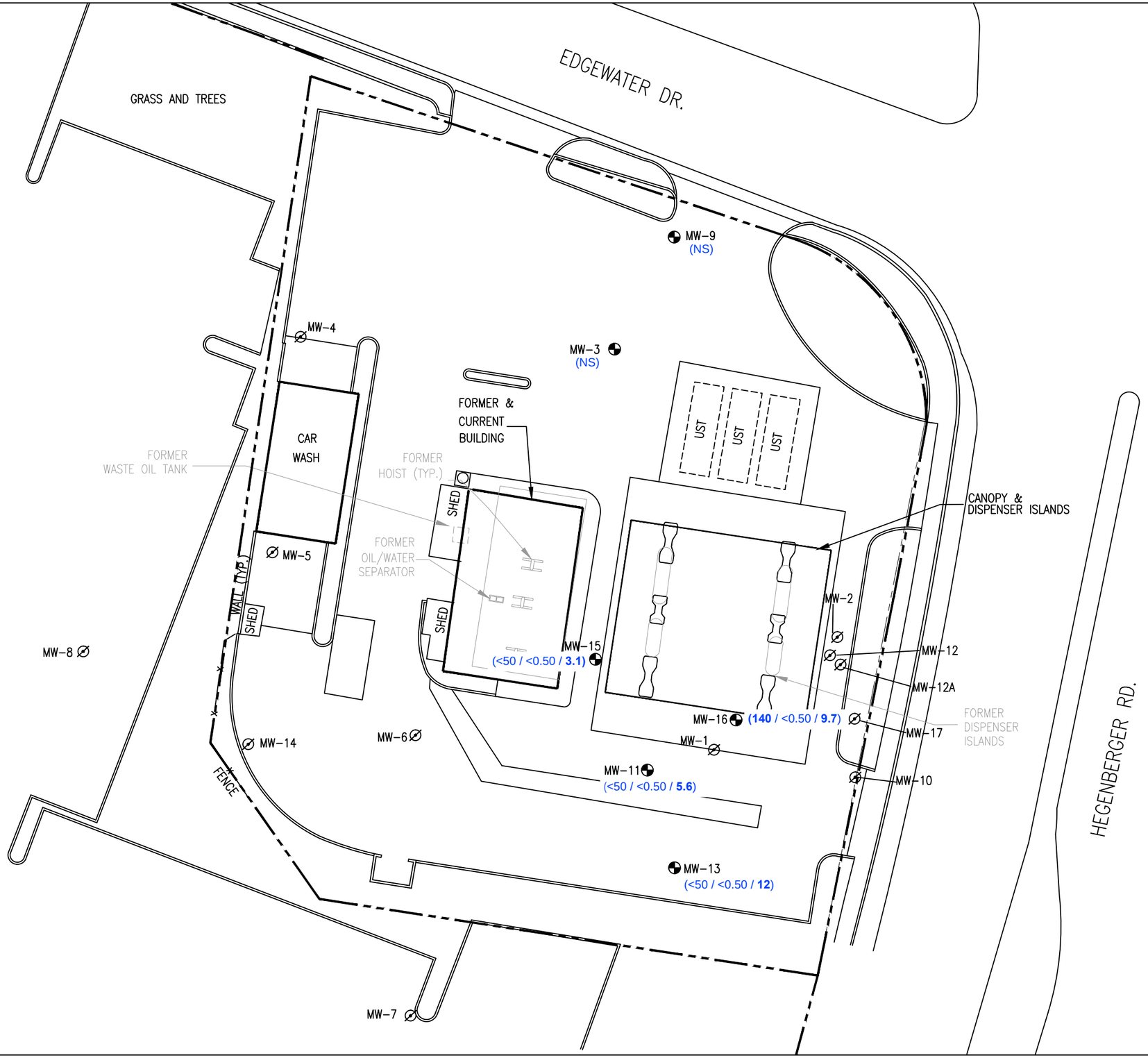
antea group

Figure 4
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 2017. 84 data points shown

Groundwater Flow Direction



LEGEND

▬ ▬ ▬	APPROXIMATE PROPERTY BOUNDARY
◓ MW–	MONITORING WELL
⌀ MW–	DESTROYED MONITORING WELL
(<50 / <0.50 / **3.1**)	(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 5
DISSOLVED PHASE CONCENTRATION MAP
AUGUST 1, 2017
76 STATION NO. 5191/5043
449 HEGENBERGER ROAD
OAKLAND, CALIFORNIA

PROJECT NO.	PREPARED BY	DRAWN BY
142705191	JF	JH
DATE	REVIEWED BY	FILE NAME
9/28/17	BP	5191-SiteS

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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	8/1/2017	10.81	3.15	NP	--	7.66	--	--	--	--	--	--	--	--	--	--
MW-9	8/1/2017	10.94	2.97	NP	--	7.97	--	--	--	--	--	--	--	--	--	--
MW-11	8/1/2017	10.53	3.50	NP	--	7.03	--	**55 HD**	< 50	< 0.50	< 1.0	< 1.0	< 1.0	**5.6**	< 10	< 100
MW-13	8/1/2017	11.08	4.03	NP	--	7.05	--	**290 HD**	< 50	< 0.50	< 1.0	< 1.0	< 1.0	**12**	**65**	< 100
MW-15	8/1/2017	11.11	3.51	NP	--	7.60	--	**300 HD**	< 50	< 0.50	< 1.0	< 1.0	< 1.0	**3.1**	**42**	< 100
MW-16	8/1/2017	10.98	3.36	NP	--	7.62	--	< 47	**140**	< 0.50	< 1.0	< 1.0	< 1.0	**9.7**	< 10	< 100

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

Analytical Notes:
< - Below laboratory's indicated reporting limit
ug/L - micrograms/liter
TPHd- Total petroleum hydrocarbons as diesel (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 GUAGING 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)	1,2-Dibromoethane (EDB) (ug/L)	1,2-Dichloroethane (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	--	--	--	--	--	--	--	--
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	--	--	--	--	--	--	--	--

TABLE 3
HISTORICAL GROUNDWATER GUAGING 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)	1,2-Dibromoethane (EDB) (ug/L)	1,2-Dichloroethane (ug/L)
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	--	--
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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

TABLE 3
HISTORICAL GROUNDWATER GUAGING 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)	1,2-Dibromoethane (EDB) (ug/L)	1,2-Dichloroethane (ug/L)
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**	**400**	< 0.50	< 1.0	< 1.0	< 1.0	--	**21**	--	--	--	**47**	< 100	--	--
MW-3	12/2/2016	10.81	2.59	NP	--	8.22	--	< 48	**81**	< 0.50	< 1.0	< 1.0	< 1.0	--	**8.7**	--	--	--	**24**	< 100	--	--
MW-3	3/30/2017	10.81	2.63	NP	--	8.18	--	**360 HD**	**480**	< 0.50	< 1.0	< 1.0	< 1.0	--	**18**	--	--	--	**47**	< 100	--	--
MW-3	5/22/2017	10.81	2.70	NP	--	8.11	--	**610 HD**	**860**	< 0.50	< 1.0	< 1.0	< 1.0	--	**13**	--	--	--	**26**	< 100	--	--
MW-3	8/1/2017	10.81	3.15	NP	--	7.66	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

TABLE 3
HISTORICAL GROUNDWATER GUAGING 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)	1,2-Dibromoethane (EDB) (ug/L)	1,2-Dichloroethane (ug/L)
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	--	--
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	--	--

TABLE 3
HISTORICAL GROUNDWATER GUAGING 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)	1,2-Dibromoethane (EDB) (ug/L)	1,2-Dichloroethane (ug/L)
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	--	**18,800**	**64,500**	**2,300**	**170**	**2,770**	**6,260**	--	**19.3**	--	--	--	--	< 250	--	--
MW-6	12/8/2010	11.55	8.42	NP	--	3.13	--	**28,700**	**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	--	**93,000**	**44,600**	**912**	**338**	**728**	**3,670**	--	**16.3**	--	--	--	**134**	< 250	--	--
MW-6	6/2/2011	11.55	2.76	NP	--	8.79	--	**33,700**	**56,200**	**780**	**262**	**651**	**3,890**	--	**6.7**	--	--	--	**81.0**	< 250	--	--
MW-6	9/7/2011	11.55	2.83	NP	--	8.72	--	**6,780**	**16,600**	**15.6**	**10.6**	**89.6**	**339**	--	< 0.50	--	--	--	--	< 250	--	--
MW-6	12/5/2011	11.55	3.56	NP	--	7.99	--	**20,200**	**64,600**	**646**	**95.4**	**924**	**4,050**	--	**14.9**	--	--	--	--	< 250	--	--
MW-6	3/6/2012	11.55	3.43	NP	--	8.12	--	**14,800**	**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-6	7/7/2015	11.55	--	--	--	--	WD	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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	--	--	--	--	--	--	--	--
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	--	--

TABLE 3
HISTORICAL GROUNDWATER GUAGING 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)	1,2-Dibromoethane (EDB) (ug/L)	1,2-Dichloroethane (ug/L)
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	1/26/2016	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	--	--	--	--	--	--	--	--
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	--	--	--	--	--	--	--

TABLE 3
HISTORICAL GROUNDWATER GUAGING 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)	1,2-Dibromoethane (EDB) (ug/L)	1,2-Dichloroethane (ug/L)
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	1/26/2016	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**	--	--	--	--	--	--	--	--	--
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**	--	--	--	--	--	--	--	--

TABLE 3
HISTORICAL GROUNDWATER GUAGING 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)	1,2-Dibromoethane (EDB) (ug/L)	1,2-Dichloroethane (ug/L)
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	--	**1,000**	< 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	--	--
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	--	--

TABLE 3
HISTORICAL GROUNDWATER GUAGING 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)	1,2-Dibromoethane (EDB) (ug/L)	1,2-Dichloroethane (ug/L)
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-9	12/2/2016	10.94	0.97	NP	--	9.97	--	< 45	< 50	< 0.50	< 1.0	< 1.0	< 1.0	--	< 1.0	--	--	--	< 10	< 100	--	--
MW-9	3/30/2017	10.94	2.25	NP	--	8.69	--	**220 HD**	< 50	< 0.50	< 1.0	< 1.0	< 1.0	--	**1.0**	--	--	--	< 10	< 100	--	--
MW-9	5/22/2017	10.94	2.35	NP	--	8.59	--	**1100 HD**	< 50	< 0.50	< 1.0	< 1.0	< 1.0	--	< 1.0	--	--	--	< 10	< 100	--	--
MW-9	8/1/2017	10.94	2.97	NP	--	7.97	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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	--	--
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	--	--

TABLE 3
HISTORICAL GROUNDWATER GUAGING 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)	1,2-Dibromoethane (EDB) (ug/L)	1,2-Dichloroethane (ug/L)
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	6/12/2014	10.97	3.92	NP	--	7.05	--	< 50	< 50	**4.4**	< 0.50	< 0.50	**0.91**	--	< 0.50	--	--	--	< 5.0	< 8.0	--	--
MW-10	6/18/2014	10.97	--	--	--	--	WD	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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**	< 50	< 0.50	< 1.0	< 1.0	< 1.0	--	**7.6**	--	--	--	< 10	< 100	--	--
MW-11	12/2/2016	10.53	2.23	NP	--	8.30	--	< 46	< 50	< 0.50	< 1.0	< 1.0	< 1.0	--	**6.9**	--	--	--	< 10	< 100	--	--
MW-11	3/30/2017	10.53	1.94	NP	--	8.59	--	**160 HD**	< 50	< 0.50	< 1.0	< 1.0	< 1.0	--	**10**	--	--	--	< 10	< 100	--	--
MW-11	5/22/2017	10.53	2.34	NP	--	8.19	--	**270 HD**	< 50	< 0.50	< 1.0	< 1.0	< 1.0	--	**4.3**	--	--	--	< 10	< 100	--	--
MW-11	8/1/2017	10.53	3.50	NP	--	7.03	--	**55 HD**	< 50	< 0.50	< 1.0	< 1.0	< 1.0	--	**5.6**	--	--	--	< 10	< 100	--	--
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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

TABLE 3
HISTORICAL GROUNDWATER GUAGING 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)	1,2-Dibromoethane (EDB) (ug/L)	1,2-Dichloroethane (ug/L)
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	6/12/2014	11.01	3.96	NP	--	7.05	--	< 50	**200**	**30**	**3.3**	**4.2**	**6.1**	--	**920**	--	--	--	**8.6**	< 9.0	--	--
MW-12	6/18/2014	11.01	--	--	--	--	WD	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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	6/12/2014	11.29	4.37	NP	--	6.92	--	< 50	< 50	< 0.50	< 0.50	< 0.50	< 0.50	--	< 0.50	--	--	--	< 5.0	< 5.0	--	--
MW-12A	6/18/2014	11.29	--	--	--	--	WD	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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	--	--
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-13	12/2/2016	11.08	3.88	NP	--	7.20	--	< 45	< 50	< 0.50	< 1.0	< 1.0	< 1.0	--	**19**	--	--	--	**63**	< 100	--	--
MW-13	3/30/2017	11.08	4.89	NP	--	6.19	--	**51 HD**	< 50	**0.91**	< 1.0	< 1.0	< 1.0	--	**20**	--	--	--	**100**	< 100	--	--
MW-13	5/22/2017	11.08	4.44	NP	--	6.64	--	**190 HD**	< 50	< 0.50	< 1.0	< 1.0	< 1.0	--	**11**	--	--	--	**120**	< 100	--	--
MW-13	8/1/2017	11.08	4.03	NP	--	7.05	--	**290 HD**	< 50	< 0.50	< 1.0	< 1.0	< 1.0	--	**12**	--	--	--	**65**	< 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	--	--	--	--	--	--	**4,580**	**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	--	< 2000	**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	--	--

TABLE 3
HISTORICAL GROUNDWATER GUAGING 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)	1,2-Dibromoethane (EDB) (ug/L)	1,2-Dichloroethane (ug/L)
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-14	7/7/2015	12.00	--	--	--	--	WD	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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-15	12/2/2016	11.11	2.62	NP	--	8.49	--	**240**	**98**	< 0.50	< 1.0	< 1.0	< 1.0	--	**33**	--	--	--	**24**	< 100	--	--
MW-15	3/30/2017	11.11	2.46	NP	--	8.65	--	**360 HD**	**130**	< 0.50	< 1.0	< 1.0	< 1.0	--	**11**	--	--	--	< 10	< 100	--	--
MW-15	5/22/2017	11.11	3.12	NP	--	7.99	--	**230 HD**	**160**	< 0.50	< 1.0	< 1.0	< 1.0	--	**9.7**	--	--	--	< 10	< 100	--	--
MW-15	8/1/2017	11.11	3.51	NP	--	7.60	--	**300 HD**	< 50	< 0.50	< 1.0	< 1.0	< 1.0	--	**3.1**	--	--	--	**42**	< 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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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-16	12/2/2016	10.98	3.19	NP	--	7.79	--	**230**	< 50	< 0.50	< 1.0	< 1.0	< 1.0	--	**7.5**	--	--	--	**140**	< 100	--	--
MW-16	3/30/2017	10.98	2.53	NP	--	8.45	--	**250 HD**	< 50	< 0.50	< 1.0	< 1.0	< 1.0	--	**7.1**	--	--	--	**58**	< 100	--	--
MW-16	5/22/2017	10.98	3.68	NP	--	7.30	--	**550 HD**	< 50	< 0.50	< 1.0	< 1.0	< 1.0	--	**4.0**	--	--	--	**76**	< 100	--	--
MW-16	8/1/2017	10.98	3.36	NP	--	7.62	--	< 47	**140**	< 0.50	< 1.0	< 1.0	< 1.0	--	**9.7**	--	--	--	< 10	< 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	--	--

TABLE 3
HISTORICAL GROUNDWATER GUAGING 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)	1,2-Dibromoethane (EDB) (ug/L)	1,2-Dichloroethane (ug/L)
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	--	< 1000	**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	6/12/2014	11.52	4.49	NP	--	7.03	--	**87**	**17,000**	**3,600**	**410**	**650**	**1,100**	--	< 3.0	--	--	--	**300**	< 30	--	--
MW-17	6/18/2014	11.52	--	--	--	--	WD	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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	--	--	--

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**	--	--	--	--	--	--	--

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	--	--	--	--	--	--	--

GAUGING AND ANALYTICAL NOTES FOR CURRENT AND PAST DATA
76 STATION NO. 5191/5043
449 HEGENBERGER ROAD
OAKLAND, CALIFORNIA

Gauging Notes:

* - Corrected for Light non-aqueous phase liquid (LNAPL) if present (assumes LNAPL specific gravity = 0.75)
-- - No Information Available
ft - Feet
LNAPL - Light non-aqueous phase liquid
NP - Not present
TOC - Top of Casing

Analytical Notes:

< - Below laboratory's indicated reporting limit
ug/L - micrograms/liter
1,2-DCA - 1,2-Dichloroethane
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.
2V - The detection of Ethanol is biased high likely due to the presence of interfering compounds
A - Lower boiling hydrocarbons present, atypical for Diesel Fuel.
Bold - Above the laboratory's indicated reporting limit
EDB - 1,2-Dichloroethane
HD - The chromatographic pattern was inconsistent with the profile of the reference fuel standard
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

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
	09/19/16	Variable	0	0	0	0	0	0	**1**	0	0	0	**1**	0	0	0	0	0
	12/02/16	Variable	0	0	0	0	0	0	0	**1**	0	0	0	**1**	0	0	0	0
	03/30/17	Not available	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	05/22/17	0.0160	0	0	0	0	**1**	0	0	0	0	0	0	0	0	0	0	0
	08/01/17	0.0010	0	0	0	0	0	0	0	0	0	0	**1**	0	0	0	0	0
		0.023 Average	**0**	**0**	**0**	**0**	**1**	**1**	**35**	**2**	**16**	**0**	**23**	**3**	**3**	**0**	**0**	**0**

Explanation
NA = Not available
Number of Events = 87

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

Blaine Tech Groundwater Sampling Field Data Sheets

Well-Head Inspection & Well Gauging Form

Antea Group Project No: site # 2705191 **Site Address:** 449 Hegenberger, Oakland

Field Technician: Wesley Sherman Shirkley / BLAINE TECH SERV. **Date:** 08/01/2017 **Weather:** Sunny
(Print Full Name & Company)*

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	X	✓	✓	✓	✓	N	2	0823	3.15	13.93			-1/2 bolts
/	MW-9	✓	✓	✓	✓	✓	N	2	0803	2.97	12.51			
1	MW-11	✓	✓	✓	✓	✓	N	4	0829	3.50	19.48			
2	MW-13	✓	✓	✓	✓	✓	N	2	0809	4.03	14.52			
3	MW-15	✓	✓	✓	✓	✓	N	2	0834	3.51	12.73			
4	MW-16	✓	✓	✓	✓	✓	Y	2	~~0834~~ (WS) 0816	3.36	12.64			

Notes:

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

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*Form provided by Antea Group

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

Groundwater Sampling Form

Site Address:	2419 Hegenberger Rd. Oakland, CA		
Project No:	170801 (WSI)	Field Technician:	WS
Field Point:	MW-11	Date:	08/01/2017
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):	19.48	Water Column Height (ft):	15.98

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: w/BED

Water Column Height (ft): 15.98 X Conversion Factor (gal/ft): 0.65 = Casing Volume (gal): 10.38

Casing Volume (gal): 10.38 X Specified Volumes: 3 = Calculated Purge (gal): 31.14

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

Purge: ~~6.96~~ (WS) **Start Time:** 0906 **Stop Time:** 0943

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				-61		4.15		
0910	21.9	7.53	682	-54	74	2.54	5.25	
0913	21.8	7.17	1602	-46	60	0.46	10.50	
0916	22.1	7.17	1592	-57	46	0.23	15.75	
0919	22.8	7.12	1607	-65	31	0.24	21.0	
0922	22.4	7.10	1611	-66	25	0.25	26.25	
0925	22.6	7.10	1616	-68	22	0.24	31.50	
Post-Purge				-68		0.24		

Did Well dewater? Yes (No) Total Purge volume (gal): 31.50

Other Comments: Purged through flow cell
* sampled out of order due to on-site traffic

Sample Info:

Sample ID: MW-11_20170831 Sample Date and Time: 08/01/2017 @ 0930

Selected Analysis: See CoC

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

Signature: [signature] Date: 08/01/2017

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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, CA		
Project No:	170801-WS1	Field Technician:	WS
Field Point:	MW-13	Date:	08/01/2017
Depth to Water (DTW) (ft bgs):	4.03	Well Diameter (in):	(2) 4 6 8 ___
Depth to LNAPL (ft bgs):	—	Thickness of LNAPL (ft):	—
Total Depth of Well (ft bgs):	14.52	Water Column Height (ft):	10.49

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: W/BFD

Water Column Height (ft): 10.49 X Conversion Factor (gal/ft): .16 = Casing Volume (gal): 1.67

Casing Volume (gal): 1.67 X Specified Volumes: 3 = Calculated Purge (gal): 5.01

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

Purge: **Start Time:** 0943 **Stop Time:** 0951

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				74		2.97		
0946	22.7	7.30	1624	-41	19	0.61	1.0	
0947	22.9	7.23	1617	-60	18	0.29	2.0	
0948	23.0	7.15	1620	-68	22	0.28	3.0	
0949	23.1	7.05	1927	-72	166	0.66	4.0	
0950	23.4	7.11	3605	-106	263	0.45	5.0	
0951	23.0	7.27	3704	-123	296	0.38	6.0	
Post-Purge				-123		0.38		

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

Other Comments: Purged through flow cell * HCL reaction observed in VOA vials.

Sample Info:

Sample ID:	MW-13_20170831	Sample Date and Time:	08/01/2017 @ 1000
Selected Analysis:	See CoC		

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

Signature: _____ Date: 08/01/2017

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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, CA		
Project No:	170801-WS1	Field Technician:	WS
Field Point:	MW-15	Date:	08/01/2017
Depth to Water (DTW) (ft bgs):	3.51	Well Diameter (in):	(2) 4 6 8 ___
Depth to LNAPL (ft bgs):	-	Thickness of LNAPL (ft):	-
Total Depth of Well (ft bgs):	12.73	Water Column Height (ft):	9.21

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: W/BED

Water Column Height (ft): 9.21 X Conversion Factor (gal/ft): 0.16 = Casing Volume (gal): 1.47

Casing Volume (gal): 1.47 X Specified Volumes: 3 = Calculated Purge (gal): 4.41

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

Purge: **Start Time:** 1020 **Stop Time:** 1026

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				32		3.13		
1021	21.6	7.47	3659	-76	436	1.88	0.75	
1022	21.5	7.40	3655	-98	379	2.21	1.50	
1023	21.6	7.39	3634	-103	274	2.41	2.25	
1024	21.6	7.40	3624	-104	324	2.62	3.00	
1025	21.6	7.40	3617	-102	274	2.83	3.75	
1026	21.5	7.41	3607	-101	326	3.08	4.50	
Post-Purge				-101		3.08		

Did Well dewater? Yes (No) Total Purge volume (gal): 4.50

Other Comments: Purged through flow cell * sampled out of order due to on-site traffic

Sample Info:

Sample ID:	MW-15_20170801	Sample Date and Time:	08/01/2017 @ 1035
Selected Analysis:			

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

Signature: _____ Date: 08/01/2017

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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:	4449 Hegenberger Rd, Oakland, CA		
Project No:	170801-WS1	Field Technician:	WS
Field Point:	MW-16	Date:	08/01/2017
Depth to Water (DTW) (ft bgs):	3.36	Well Diameter (in):	(2) 4 6 8 ___
Depth to LNAPL (ft bgs):	–	Thickness of LNAPL (ft):	–
Total Depth of Well (ft bgs):	12.64	Water Column Height (ft):	9.28

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: W/BAIL

Water Column Height (ft): 9.28 X Conversion Factor (gal/ft): 0.16 = Casing Volume (gal): 1.48

Casing Volume (gal): 1.48 X Specified Volumes: 3 = Calculated Purge (gal): 4.44

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

Purge: **Start Time:** 1056 **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				63		7.16		
1057	21.7	7.47	3568	-80		0.84	0.75	
1058	21.8	7.42	3548	-99		0.76	1.50	
1059	21.8	7.39	3575	-109		0.73	2.25	
1100	21.8	7.36	3555	-108		0.71	3.00	
1101	21.8	7.31	3567	-117		0.70	3.75	
1102	21.9	7.29	3550	-109		0.65	4.50	
Post-Purge				-109		0.65		

Did Well dewater? Yes (No) Total Purge volume (gal): 4.50

Other Comments: Purged through flow cell

Sample Info:

Sample ID:	MW-16-20170831	Sample Date and Time:	8/1/17 @ 1110
Selected Analysis:	See CoC		

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

Signature: _____ Date: 08/01/2017

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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

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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 ____

3Q17 GW Sampling Event

Required Lab Information:

Lab Name:	Calscience
Address:	7440 Lincoln Way
	Garden Grove, CA 92841
Lab PM:	Terri Chang
Phone/Fax:	714-895-5494
Lab PM email	Terrichang@eurofinsus.com
Applicable Lab Quote #:	

Required Project Information:

Site ID #:	2705191
Task:	WG_Q_20170831
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:	11010 White Rock Road, Suite 140
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	Mana.Or@anteagroup.com
CC Hardcopy report to	Jonathan.Fillingame@anteagroup.com
CC Hardcopy report to	David.Sisak@anteagroup.com

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	WS
GROUND WATER	WG	SURFACE WATER	WQ	
WASTE WATER	WW	WATER QC	SL	
FREE PRODUCT	LF	SLUDGE	WM	
SOIL	SO	RINSEATE	OI	
OIL	OL	OTHER	TA	
WIPE	SW	ANIMAL TISSUE		
AMBIENT AIR	SVE	AA		
AIR		AZ		
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	8015TPHDiesel W/Silica Gel	8260 GC/MS GRO	8260BtexMtbeTBA	8260Ethanol	Comments/Lab Sample I.D.
1	MW-11_20170831	WG	GRAB	08/01/2017	0930	5		2			3					X	X	X	X	
2	MW-13_20170831	WG			1000											X	X	X	X	
3	MW-15_20170831	WG			1035											X	X	X	X	
4	MW-16_20170831	WG			1110											X	X	X	X	
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				

Additional Comments/Special Instructions:

Global ID: T0600101476

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
BTS	8/1/17				

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

SHIPPING METHOD: (mark as appropriate) — SAMPLER NAME AND SIGNATURE

UPS COURIER FEDEX

US MAIL

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER:

DATE Signed

Time:

TEST EQUIPMENT CALIBRATION LOG

PROJECT NAME	Antea @ 449 Hegenberger, Oakland	PROJECT NUMBER	170801-WS1				
EQUIPMENT NAME	EQUIPMENT NUMBER	DATE/TIME OF TEST	STANDARDS USED	EQUIPMENT READING	CALIBRATED TO: OR WITHIN 10%:	TEMP.	INITIALS
YSI Pro plus	16M101745	08/01/2017 0845	pH 4.0/7.0/10.0	4.00/7.00/10.00	✓	15.8	WS
↓	↓	↓	Cond	3900	✓	15.8	WS
↓	↓	↓	ORP	244.4	✓	15.8	WS
↓	↓	↓	DO 100%	100%	✓	15.8	WS

ANTEA COP/ELT BILL OF LADING

SOURCE RECORD **BILL OF LADING**

FOR NON-HAZARDOUS PURGEWATER RECOVERED FROM GROUNDWATER WELLS AT ANTEA COP/ELT FACILITIES IN THE STATE OF CALIFORNIA. THE NON-HAZARDOUS PURGE- WATER WHICH HAS BEEN RECOVERED FROM GROUND- WATER WELLS IS COLLECTED BY THE CONTRACTOR, MADE UP INTO LOADS OF APPROPRIATE SIZE AND HAULED BY BLAINE TECH SERVICES TO THEIR FACILITY IN SAN JOSE AND SACRAMENTO, CALIFORNIA.

The contractor performing this work is BLAINE TECH SERVICES, INC. (BTS), 20360 1680 Rogers Ave, San Jose (phone [310] 885-4455x103). Blaine Tech Services, Inc. is authorized by ANTEA COP/ELT to recover, collect, apportion into loads, and haul the Non-Hazardous Well Purgewater that is drawn from wells at the ANTEA COP/ELT facility indicated below and to deliver that purgewater to BTS. Transport routing of the Non-Hazardous Well Purgewater may be direct from one ANTEA COP/ELT facility to BTS; from one ANTEA COP/ELT facility to BTS via another ANTEA COP/ELT facility; or any combination thereof. The Non-Hazardous Well Purgewater is and remains the property of ANTEA COP/ELT..

This **Source Record** **BILL OF LADING** was initiated to cover the recovery of Non-Hazardous Well Purgewater from wells at the ANTEA COP/ELT facility described below:

Site Number: 2705191

4149 Hegenberger Rd. Oakland CA

street number / street name / city / state

WELL I.D.	GALS.	WELL I.D.	GALS.
MW-11	31.50		
MW-13	6.00		
MW-15	4.50		
MW-16	4.50		
added equip. rinse water	4.00	any other adjustments	0

TOTAL GALS. RECOVERED 50.50

loaded onto BTS vehicle # 62

BTS event # 170801-WS1 time date 8/1/17

signature

* *

REC'D AT BTS San José time 1240 date 8/1/17

unloaded by

signature

Appendix C

Certified Laboratory Analytical Report and Data Validation Form

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WORK ORDER NUMBER: 17-08-0211

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Antea Group

Client Project Name: 2705191

Attention: Dacre Bush
11010 White Rock Road, Suite 140
Rancho Cordova, CA 95670-6001

Approved for release on 08/10/2017 by:
Terri Chang
Project Manager

ResultLink

Email your PM

eurofins | Calscience

Contents

Client Project Name: 2705191
Work Order Number: 17-08-0211

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Work Order Narrative

Work Order: 17-08-0211 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 08/03/17. They were assigned to Work Order 17-08-0211.

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:	17-08-0211
	11010 White Rock Road, Suite 140	Project Name:	2705191
	Rancho Cordova, CA 95670-6001	PO Number:	
		Date/Time Received:	08/03/17 08:30
		Number of Containers:	20
Attn:	Dacre Bush		

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
MW-11_20170831	17-08-0211-1	08/01/17 09:30	5	Aqueous
MW-13_20170831	17-08-0211-2	08/01/17 10:00	5	Aqueous
MW-15_20170831	17-08-0211-3	08/01/17 10:35	5	Aqueous
MW-16_20170831	17-08-0211-4	08/01/17 11:10	5	Aqueous

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Analytical Report

Antea Group
11010 White Rock Road, Suite 140
Rancho Cordova, CA 95670-6001

Project: 2705191

Date Received: 08/03/17
Work Order: 17-08-0211
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_20170831	**17-08-0211-1-D**	**08/01/17 09:30**	**Aqueous**	**GC 46**	**08/08/17**	**08/10/17 06:21**	**170808B06S**

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

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	55	46	1.00	SG,HD

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	111	68-140	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-13_20170831	**17-08-0211-2-D**	**08/01/17 10:00**	**Aqueous**	**GC 46**	**08/08/17**	**08/10/17 06:43**	**170808B06S**

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

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	290	46	1.00	SG,HD

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	87	68-140	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-15_20170831	**17-08-0211-3-D**	**08/01/17 10:35**	**Aqueous**	**GC 46**	**08/08/17**	**08/10/17 07:03**	**170808B06S**

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

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	300	46	1.00	SG,HD

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	121	68-140	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-16_20170831	**17-08-0211-4-D**	**08/01/17 11:10**	**Aqueous**	**GC 46**	**08/08/17**	**08/10/17 07:24**	**170808B06S**

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

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	ND	47	1.00	SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	97	68-140	

Return to Contents

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

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Analytical Report

Antea Group		Date Received:	08/03/17
11010 White Rock Road, Suite 140		Work Order:	17-08-0211
Rancho Cordova, CA 95670-6001		Preparation:	EPA 3510C
		Method:	EPA 8015B (M)
		Units:	ug/L
Project: 2705191			Page 2 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-304-1810**	**N/A**	**Aqueous**	**GC 46**	**08/08/17**	**08/10/17 05:19**	**170808B06S**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	ND	50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	118	68-140	

Return to Contents

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

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Analytical Report

Antea Group
11010 White Rock Road, Suite 140
Rancho Cordova, CA 95670-6001

Project: 2705191

Date Received: 08/03/17
Work Order: 17-08-0211
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-11_20170831	**17-08-0211-1-B**	**08/01/17 09:30**	**Aqueous**	**GC/MS W**	**08/07/17**	**08/07/17 20:24**	**170807L004**

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)	5.6	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	104	78-126	
1,2-Dichloroethane-d4	102	75-135	
Toluene-d8	99	80-120	
Toluene-d8-TPPH	98	88-112	
1,4-Bromofluorobenzene	101	80-120	

Return to Contents

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

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Analytical Report

Antea Group
11010 White Rock Road, Suite 140
Rancho Cordova, CA 95670-6001

Project: 2705191

Date Received: 08/03/17
Work Order: 17-08-0211
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-13_20170831	**17-08-0211-2-B**	**08/01/17 10:00**	**Aqueous**	**GC/MS W**	**08/07/17**	**08/07/17 20:54**	**170807L004**

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)	12	1.0	1.00	
Tert-Butyl Alcohol (TBA)	65	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	102	75-135	
Toluene-d8	100	80-120	
Toluene-d8-TPPH	99	88-112	
1,4-Bromofluorobenzene	101	80-120	

Return to Contents

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

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Analytical Report

Antea Group
11010 White Rock Road, Suite 140
Rancho Cordova, CA 95670-6001

Project: 2705191

Date Received: 08/03/17
Work Order: 17-08-0211
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-15_20170831	**17-08-0211-3-B**	**08/01/17 10:35**	**Aqueous**	**GC/MS W**	**08/07/17**	**08/07/17 21:23**	**170807L004**

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)	3.1	1.0	1.00	
Tert-Butyl Alcohol (TBA)	42	10	1.00	
Ethanol	ND	100	1.00	
Gasoline Range Organics (C6-C12)	ND	50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	108	78-126	
1,2-Dichloroethane-d4	102	75-135	
Toluene-d8	99	80-120	
Toluene-d8-TPPH	99	88-112	
1,4-Bromofluorobenzene	100	80-120	

Return to Contents

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

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Analytical Report

Antea Group
11010 White Rock Road, Suite 140
Rancho Cordova, CA 95670-6001

Project: 2705191

Date Received: 08/03/17
Work Order: 17-08-0211
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_20170831	**17-08-0211-4-C**	**08/01/17 11:10**	**Aqueous**	**GC/MS W**	**08/08/17**	**08/08/17 13:03**	**170808L006**

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)	9.7	1.0	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	1.00	
Ethanol	ND	100	1.00	
Gasoline Range Organics (C6-C12)	140	50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	106	78-126	
1,2-Dichloroethane-d4	100	75-135	
Toluene-d8	99	80-120	
Toluene-d8-TPPH	98	88-112	
1,4-Bromofluorobenzene	101	80-120	

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

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Analytical Report

Antea Group
11010 White Rock Road, Suite 140
Rancho Cordova, CA 95670-6001

Project: 2705191

Date Received: 08/03/17
Work Order: 17-08-0211
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
Method Blank	**099-12-767-7886**	**N/A**	**Aqueous**	**GC/MS W**	**08/07/17**	**08/07/17 12:59**	**170807L004**

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	101	78-126	
1,2-Dichloroethane-d4	101	75-135	
Toluene-d8	99	80-120	
Toluene-d8-TPPH	98	88-112	
1,4-Bromofluorobenzene	101	80-120	

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

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Analytical Report

Antea Group
11010 White Rock Road, Suite 140
Rancho Cordova, CA 95670-6001

Date Received: 08/03/17
Work Order: 17-08-0211
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	**099-12-767-7887**	**N/A**	**Aqueous**	**GC/MS W**	**08/08/17**	**08/08/17 12:33**	**170808L006**

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	101	78-126	
1,2-Dichloroethane-d4	99	75-135	
Toluene-d8	98	80-120	
Toluene-d8-TPPH	98	88-112	
1,4-Bromofluorobenzene	100	80-120	

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

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Quality Control - Spike/Spike Duplicate

Antea Group
11010 White Rock Road, Suite 140
Rancho Cordova, CA 95670-6001

Project: 2705191

Date Received: 08/03/17
Work Order: 17-08-0211
Preparation: EPA 5030C
Method: GC/MS / EPA 8260B
Page 1 of 2

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
17-08-0281-3	**Sample**	**Aqueous**	**GC/MS W**	**08/07/17**	**08/07/17 15:28**	**170807S001**
17-08-0281-3	**Matrix Spike**	**Aqueous**	**GC/MS W**	**08/07/17**	**08/07/17 14:28**	**170807S001**
17-08-0281-3	**Matrix Spike Duplicate**	**Aqueous**	**GC/MS W**	**08/07/17**	**08/07/17 14:58**	**170807S001**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Benzene	ND	50.00	61.04	122	60.12	120	75-125	2	0-20	
Ethylbenzene	ND	50.00	56.09	112	56.66	113	75-129	1	0-20	
Toluene	ND	50.00	59.02	118	59.00	118	75-125	0	0-20	
p/m-Xylene	ND	100.0	114.2	114	114.3	114	75-133	0	0-20	
o-Xylene	ND	50.00	57.20	114	57.45	115	75-134	0	0-20	
Methyl-t-Butyl Ether (MTBE)	ND	50.00	53.38	107	52.19	104	64-136	2	0-20	
Tert-Butyl Alcohol (TBA)	ND	250.0	258.8	104	266.2	106	75-136	3	0-20	
Ethanol	ND	500.0	513.2	103	529.6	106	29-179	3	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Antea Group
11010 White Rock Road, Suite 140
Rancho Cordova, CA 95670-6001

Project: 2705191

Date Received: 08/03/17
Work Order: 17-08-0211
Preparation: EPA 5030C
Method: GC/MS / EPA 8260B
Page 2 of 2

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
17-08-0277-4	**Sample**	**Aqueous**	**GC/MS W**	**08/08/17**	**08/08/17 14:32**	**170808S001**
17-08-0277-4	**Matrix Spike**	**Aqueous**	**GC/MS W**	**08/08/17**	**08/08/17 15:01**	**170808S001**
17-08-0277-4	**Matrix Spike Duplicate**	**Aqueous**	**GC/MS W**	**08/08/17**	**08/08/17 15:31**	**170808S001**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Benzene	ND	50.00	58.69	117	58.50	117	75-125	0	0-20	
Ethylbenzene	ND	50.00	55.20	110	54.93	110	75-129	1	0-20	
Toluene	ND	50.00	58.38	117	58.29	117	75-125	0	0-20	
p/m-Xylene	ND	100.0	110.4	110	110.0	110	75-133	0	0-20	
o-Xylene	ND	50.00	56.13	112	55.94	112	75-134	0	0-20	
Methyl-t-Butyl Ether (MTBE)	ND	50.00	49.48	99	50.52	101	64-136	2	0-20	
Tert-Butyl Alcohol (TBA)	ND	250.0	293.2	117	290.1	116	75-136	1	0-20	
Ethanol	ND	500.0	547.5	109	534.6	107	29-179	2	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

Antea Group	Date Received: 08/03/17
11010 White Rock Road, Suite 140	Work Order: 17-08-0211
Rancho Cordova, CA 95670-6001	Preparation: EPA 3510C
	Method: EPA 8015B (M)
Project: 2705191	Page 1 of 3

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-15-304-1810	**LCS**	**Aqueous**	**GC 46**	**08/08/17**	**08/10/17 05:40**	**170808B06S**
099-15-304-1810	**LCSD**	**Aqueous**	**GC 46**	**08/08/17**	**08/10/17 06:01**	**170808B06S**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
TPH as Diesel	2000	1993	100	2062	103	69-123	3	0-30	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

Antea Group	Date Received: 08/03/17
11010 White Rock Road, Suite 140	Work Order: 17-08-0211
Rancho Cordova, CA 95670-6001	Preparation: EPA 5030C
	Method: GC/MS / EPA 8260B
Project: 2705191	Page 2 of 3

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-767-7886	**LCS**	**Aqueous**	**GC/MS W**	**08/07/17**	**08/07/17 11:30**	**170807L004**
099-12-767-7886	**LCSD**	**Aqueous**	**GC/MS W**	**08/07/17**	**08/07/17 12:00**	**170807L004**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Benzene	50.00	54.97	110	N/A	N/A	80-120	N/A	0-20	
Ethylbenzene	50.00	50.96	102	N/A	N/A	80-123	N/A	0-20	
Toluene	50.00	53.55	107	N/A	N/A	80-120	N/A	0-20	
p/m-Xylene	100.0	104.9	105	N/A	N/A	75-123	N/A	0-25	
o-Xylene	50.00	52.81	106	N/A	N/A	74-122	N/A	0-25	
Methyl-t-Butyl Ether (MTBE)	50.00	51.29	103	N/A	N/A	69-129	N/A	0-22	
Tert-Butyl Alcohol (TBA)	250.0	256.4	103	N/A	N/A	69-129	N/A	0-25	
Ethanol	500.0	539.3	108	N/A	N/A	42-168	N/A	0-20	
Gasoline Range Organics (C6-C12)	1000	1111	111	1084	108	65-135	2	0-30	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

Antea Group
11010 White Rock Road, Suite 140
Rancho Cordova, CA 95670-6001

Project: 2705191

Date Received: 08/03/17
Work Order: 17-08-0211
Preparation: EPA 5030C
Method: GC/MS / EPA 8260B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-767-7887	**LCS**	**Aqueous**	**GC/MS W**	**08/08/17**	**08/08/17 11:04**	**170808L006**
099-12-767-7887	**LCSD**	**Aqueous**	**GC/MS W**	**08/08/17**	**08/08/17 11:34**	**170808L006**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Benzene	50.00	55.38	111	N/A	N/A	80-120	N/A	0-20	
Ethylbenzene	50.00	51.59	103	N/A	N/A	80-123	N/A	0-20	
Toluene	50.00	55.12	110	N/A	N/A	80-120	N/A	0-20	
p/m-Xylene	100.0	105.6	106	N/A	N/A	75-123	N/A	0-25	
o-Xylene	50.00	53.49	107	N/A	N/A	74-122	N/A	0-25	
Methyl-t-Butyl Ether (MTBE)	50.00	49.67	99	N/A	N/A	69-129	N/A	0-22	
Tert-Butyl Alcohol (TBA)	250.0	255.1	102	N/A	N/A	69-129	N/A	0-25	
Ethanol	500.0	537.8	108	N/A	N/A	42-168	N/A	0-20	
Gasoline Range Organics (C6-C12)	1000	1134	113	1097	110	65-135	3	0-30	

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RPD: Relative Percent Difference. CL: Control Limits

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Sample Analysis Summary Report

Work Order: 17-08-0211 Page 1 of 1

Method	Extraction	Chemist ID	Instrument	Analytical Location
EPA 8015B (M)	EPA 3510C	972	GC 46	1
GC/MS / EPA 8260B	EPA 5030C	867	GC/MS W	2

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Glossary of Terms and Qualifiers

Work Order: 17-08-0211 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 ____

17-08-0211

3Q17 GW Sampling Event

Required Lab Information:

Lab Name:	Calscience
Address:	7440 Lincoln Way
	Garden Grove, CA 92841
Lab PM:	Terri Chang
Phone/Fax:	714-895-5494
Lab PM email	Terrichang@eurofinsus.com
Applicable Lab Quote #:	

Required Project Information:

Site ID #:	2705191
Task:	WG_Q_20170831
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:	11010 White Rock Road, Suite 140
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	Mana.Or@anteagroup.com
CC Hardcopy report to	Jonathan.Fillingame@anteagroup.com
CC Hardcopy report to	David.Sisak@anteagroup.com

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: DRINKING WATER (WP), GROUND WATER (WG), WASTE WATER (WW), FREE PRODUCT (LF), SOIL (SO), OIL (OL), WIPE (SW), AMBIENT AIR (SVE, AA), AIR (AE), SOIL GAS (GS), WATER (W, WQ), SURFACE WATER (WQ), WATER QC (SL), SLUDGE (WH), RINSCATE (QT), OTHER (TA), ANIMAL TISSUE

ITEM #	SAMPLE ID (One Character per box. 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 Gel	8260 GC/MS GRO	8260BtexMtbeTBA	8260Ethanol	Comments/Lab Sample I.D.
1	MW-11_20170831	WG	GRAB	08/01/2017	0930	5		2			3					X	X	X	X	
2	MW-13_20170831	WG			1000											X	X	X	X	
3	MW-15_20170831	WG			1035											X	X	X	X	
4	MW-16_20170831	WG			1110											X	X	X	X	
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				

Additional Comments/Special Instructions:

Global ID: T0600101476

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
[signature] BTS	8/1/17	1220	[signature] (SC)	8/1/17	1220
[signature] BTS	8-2-17	1250	[signature] GCI	8/2/17	1250
[signature] GSO	8/2/17	1730			
			[signature]	8/3/17	0830

Sample Receipt Conditions

Temp in °C	Samples on Ice?	Sample intact?	Trip Blank?
	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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GSO GOLDEN STATE OVERNIGHT

800-322-5555 www.gso.com

0211

Ship From
CAL SCIENCE- CONCORD
ALAN KEMP
5063 COMMERCIAL CIRCLE
#H
CONCORD, CA 94520

Ship To
CEL
SAMPLE RECEIVING
7440 LINCOLN WAY
GARDEN GROVE, CA 92841

COD: $0.00
Weight: 0 lb(s)
Reference:
APTIM, ANTEA GROUP (BTS), PORT COSTA
Delivery Instructions:

Signature Type: REQUIRED

Tracking #: 537091268

NPS

ORC **A**
GARDEN GROVE

D92845A

70312528

Print Date: 8/2/2017 4:10 PM

LABEL INSTRUCTIONS:

Do not copy or reprint this label for additional shipments - each package must have a unique barcode.

Use the "Print Label" button on this page to print the shipping label on a laser or inkjet printer. Securely attach this label to your package, do not cover the barcode.

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WORK ORDER NUMBER: 17-08- 0271

SAMPLE RECEIPT CHECKLIST

COOLER 1 OF 1

CLIENT: ANTEA GROUP

DATE: 08 / 03 / 2017

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

Thermometer ID: SC6 (CF: +0.2°C); Temperature (w/o CF): 2.2 °C (w/ CF): 2.4 °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: 1050

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: 1050

s = H_2SO_4, **u** = ultra-pure, **x** = Na_2SO_3+$NaHSO_4.H_2O$, **znna** = Zn $(CH_3CO_2)_2$ + NaOH Reviewed by: SD2

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Is the Data Valid? (circle) Yes / No	Preservation Temperature (if Known): 2.2 °C

Antea Group Lab Validation Sheet

Project/Client: COP/ELT
Project #: I42705191
Date of Validation: 8/31/17 **Date of Analysis:** 8/10/17 **Sample Date:** 8/1/17
Completed By: Jon F. **Signature:** Jonathan F. Wingate
Analytical Lab Used and Report # (if any): Eurofins Calscience 17-08-0211

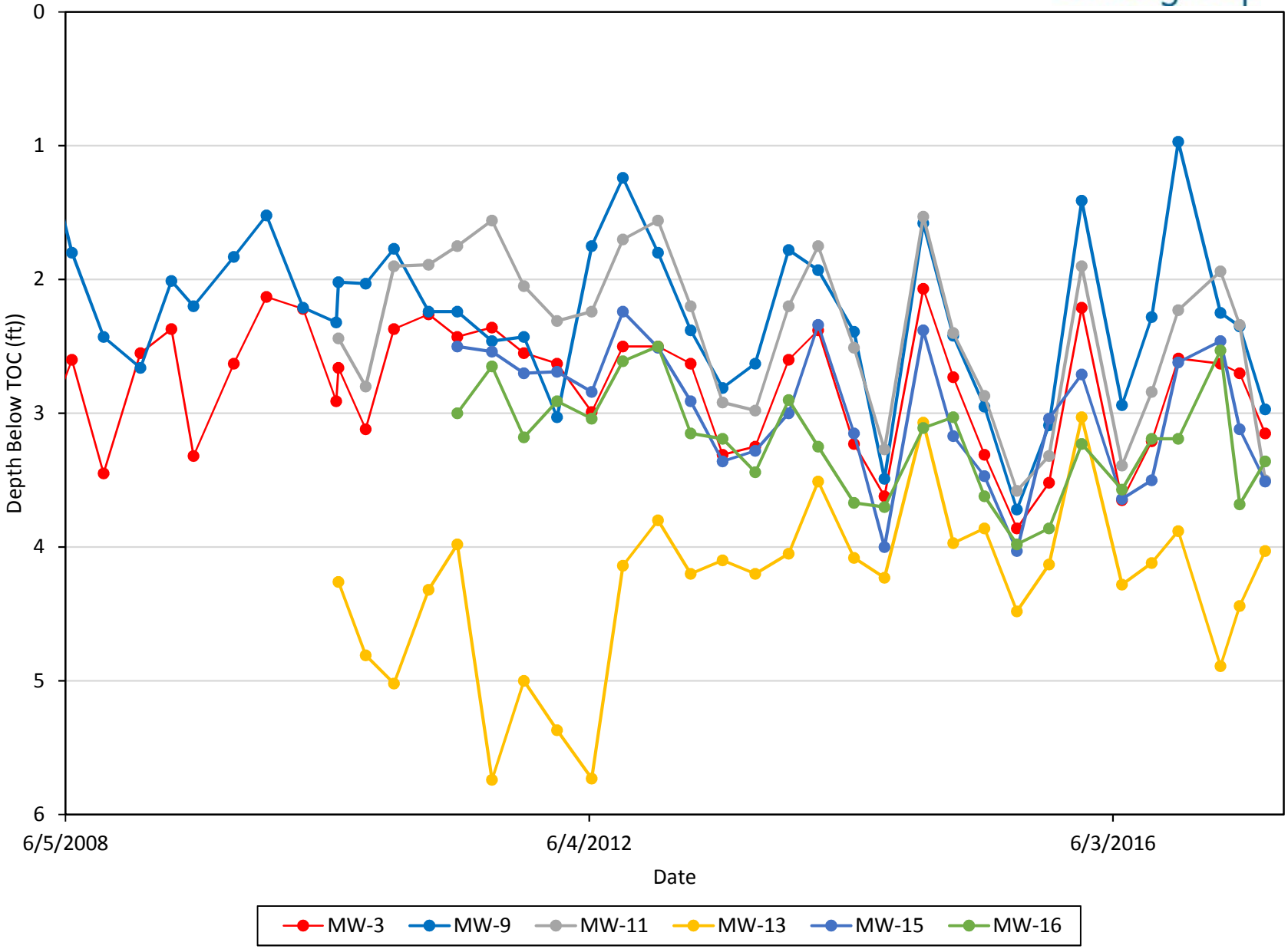
	Circle or Highlight Yes/No below
1. Was the analysis the one requested?	Yes / No
2. Do the sample number(s) on the chain-of-custody (COC) match the one(s) that appear on the laboratory data sheet?	Yes / No
3. Were samples prepared (extracted, filtered, etc.) within EPA holding times?	Yes / No
4. Once 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

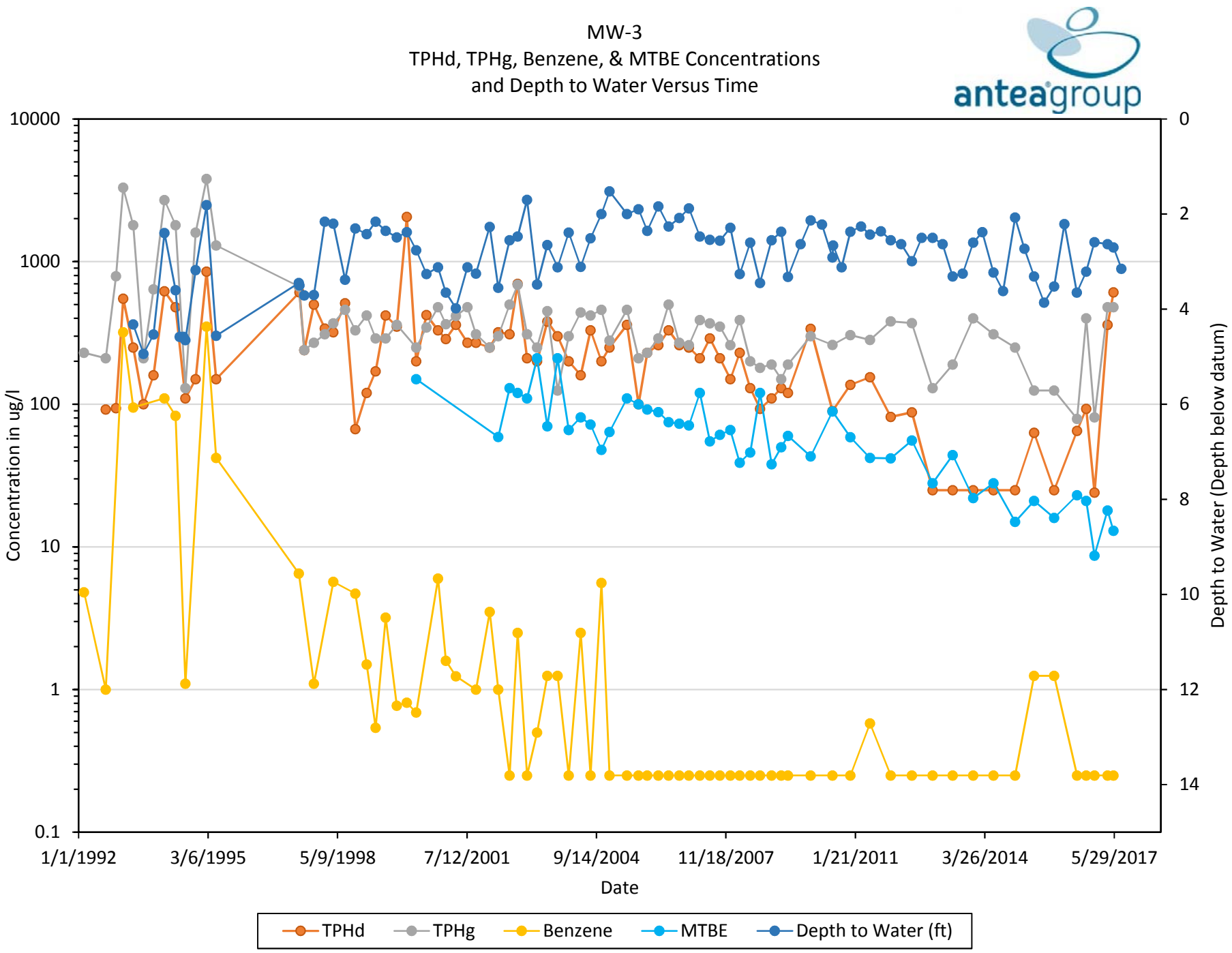
If any answer is no, explain why and what corrective action was taken:

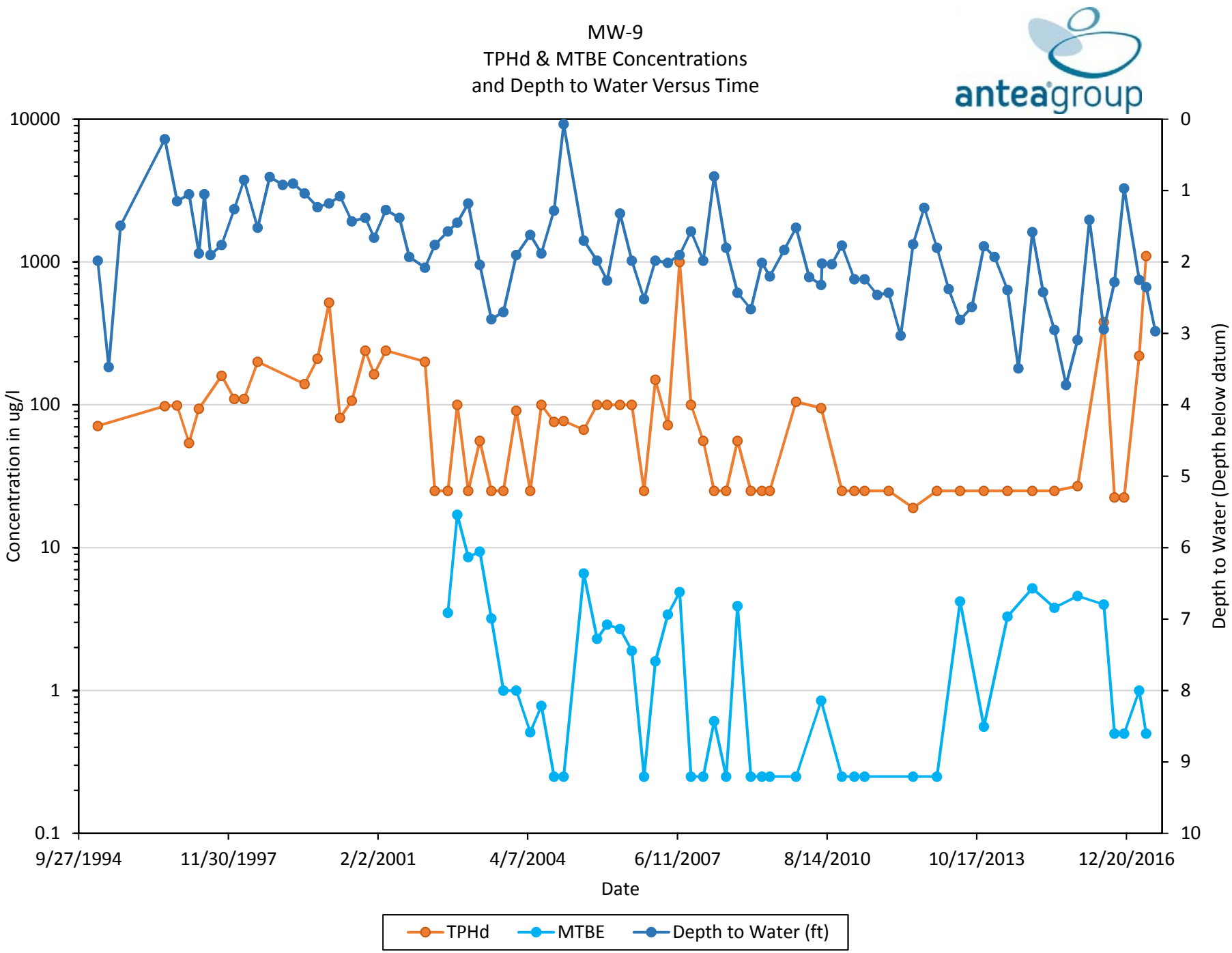
Appendix D

Time Series Graphs

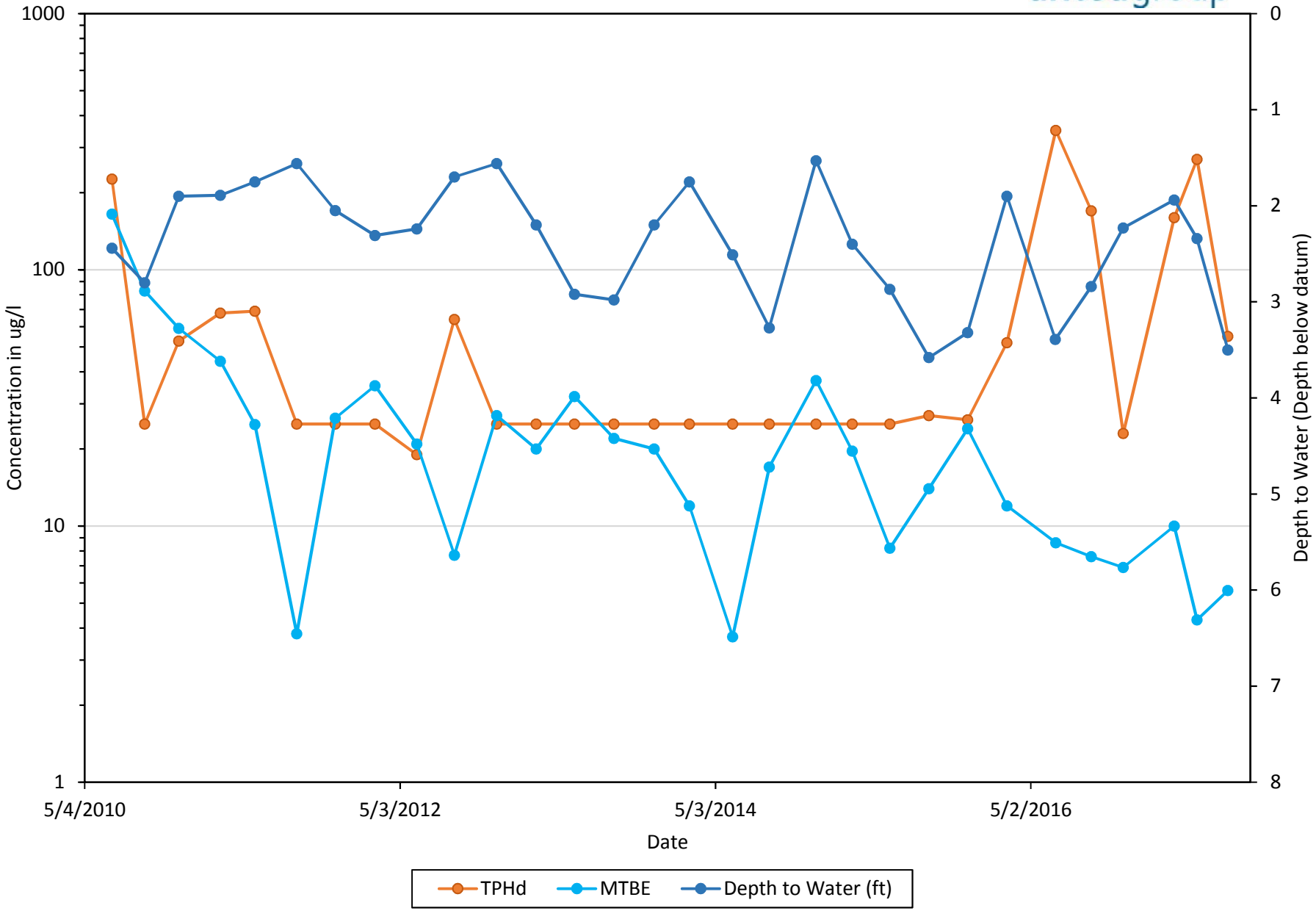
Hydrographs
Depth to Water Versus Time



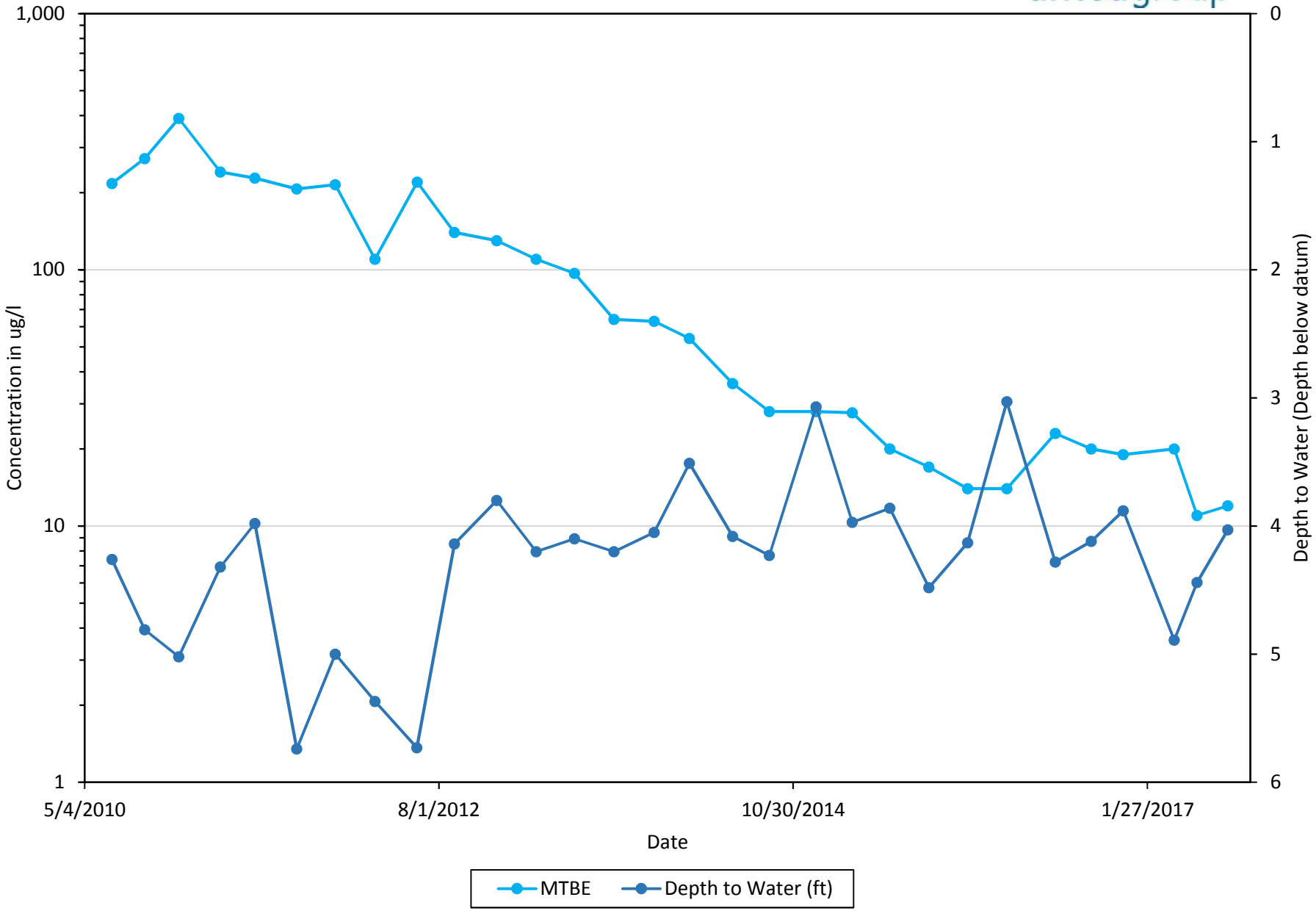

MW-3
TPHd, TPHg, Benzene, & MTBE Concentrations
and Depth to Water Versus Time
anteagroup
10000
1000
100
10
1
0.1
Concentration in ug/l
0
2
4
6
8
10
12
14
Depth to Water (Depth below datum)
1/1/1992
3/6/1995
5/9/1998
7/12/2001
9/14/2004
11/18/2007
1/21/2011
3/26/2014
5/29/2017
Date
TPHd
TPHg
Benzene
MTBE
Depth to Water (ft)


MW-9
TPHd & MTBE Concentrations
and Depth to Water Versus Time
antea group
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
11/30/1997
2/2/2001
4/7/2004
6/11/2007
8/14/2010
10/17/2013
12/20/2016
Date
TPHd
MTBE
Depth to Water (ft)

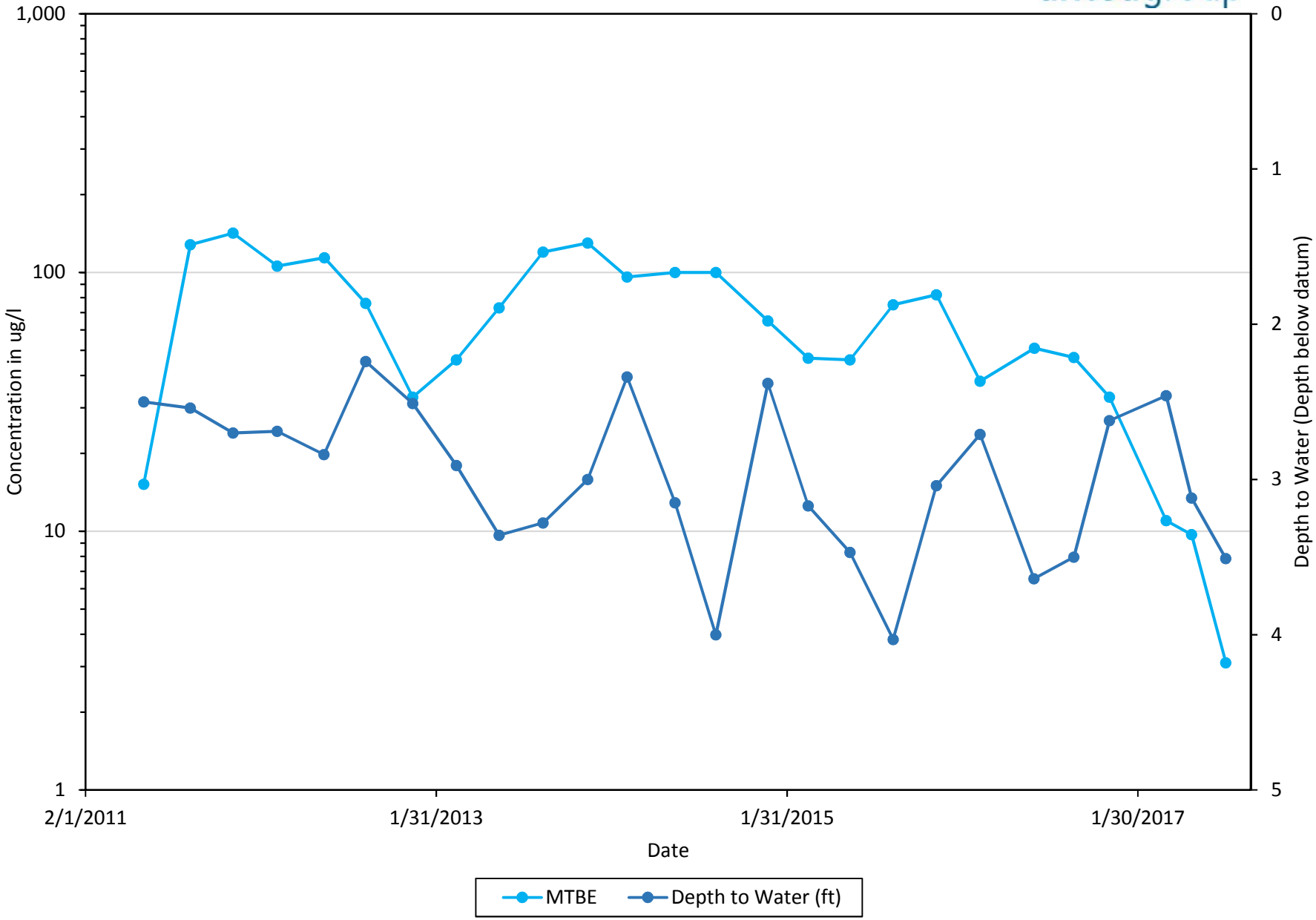
MW-11
MTBE Concentrations
and Depth to Water Versus Time



MW-13
MTBE Concentrations
and Depth to Water Versus Time



MW-15
MTBE Concentrations
and Depth to Water Versus Time



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