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May 4, 2015

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

Subject: Semi-Annual Summary Report, October 2014 through March 2015

**Site: 76 Service Station No. 5325
3220 Lakeshore Avenue
Oakland, California
Fuel Leak Case No. RO0000229**

Dear Mr. Nowell;

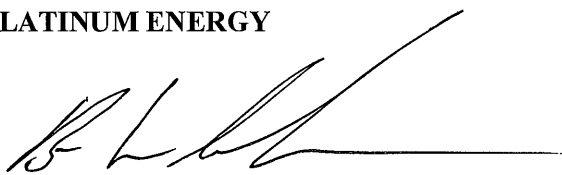
I declare under penalty of perjury that to the best of my knowledge the information and/or recommendations contained in the attached report is/are true and correct.

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

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Platinum Energy
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Sincerely,

PLATINUM ENERGY



BRIAN WHALEN

Attachment

Semi-Annual Summary Report - October 2014 through March 2015

*76 Service Station No. 5325
3220 Lakeshore Avenue
Oakland, California*

*Alameda County Health Care Services Agency
Fuel Leak Case No. RO0000229*

*San Francisco Bay Regional Water Quality
Control Board
No. 01-1588*

GeoTracker Global ID No. T0600101463

Antea Group Project No. I40255325

May 4, 2015

Prepared for:
Mr. Keith Nowell
Alameda County Health Care
Services Agency
1131 Harbor Bay Parkway,
Suite 250
Alameda, CA 94502

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Attachments

- Attachment A Summary of Previous Environmental Investigations
- Attachment B Antea Group's Groundwater Sampling Procedures
- Attachment C Antea Group's Groundwater Sampling Field Data Sheets
- Attachment D Certified Laboratory Analytical Report and Data Validation Form
- Attachment E TPHg and MTBE Concentrations and Groundwater Elevation Graphs

1.0 INTRODUCTION

Antea™ Group is pleased to submit this *Semi-Annual Summary Report – October 2014 through March 2015* for the referenced site in Oakland, California. The site is located on the east corner of the intersection of Lakeshore Avenue and Lake Park Avenue in Oakland, CA (**Figure 1**). The site is bounded to the north by Lakeshore Avenue; to the west and southwest by Lake Park Avenue; to the southeast by a supermarket parking lot; and to the east by a pharmacy. Station facilities include a service station building with one service bay, three fuel dispenser islands, and two 12,000-gallon, double-wall fiberglass, gasoline underground storage tanks (USTs) [**Figure 2**].

A summary of previous environmental investigations is presented as **Attachment A**. Antea Group's procedures for groundwater monitoring, sampling, and equipment decontamination are presented as **Attachment B**. Antea Group's groundwater monitoring and sampling field data sheets are presented as **Attachment C**. The groundwater sampling certified analytical report, chain-of-custody documentation, and data validation form are presented as **Attachment D**. Time versus total petroleum hydrocarbons as gasoline (TPHg) and methyl tertiary-butyl ether (MTBE) concentrations and groundwater elevation graphs are presented as **Attachment E**.

Site summary data has been tabled in the following:

- **Table 1** summarizes the well construction details.
- **Table 2** summarizes the current groundwater gauging and analytical data.
- **Table 3** summarizes the historical groundwater gauging and analytical data.
- **Table 3a** summarizes additional historical groundwater analytical data.
- **Table 3b** summarizes additional historical groundwater analytical data.
- **Table 3c** summarizes additional historical groundwater analytical data.
- **Table 4** summarizes the historical groundwater gradient and flow directions.

This report summarizes the groundwater data collected to date, focusing on the most recent analytical data obtained from groundwater samples collected on March 12, 2015. This report has received a technical review by Mr. Dennis Dettloff, California Professional Geologist No.7480.

1.1 Work Performed: October 2014 through March 2015

1. Antea Group prepared and submitted the *Semi-Annual Summary Report - April through September 2014*, dated October 22, 2015.
2. Antea Group conducted the semi-annual groundwater sampling event on March 12, 2015.

1.2 Work Proposed: April through September 2015

1. Antea Group will prepare and submit the *Semi-Annual Summary Report – October 2014 through March 2015*, contained herein.

2. Antea Group will conduct the semi-annual groundwater monitoring and sampling event.

2.0 CURRENT PROJECT STATUS

Current phase of project:	Semi-Annual Groundwater Monitoring
Local Oversight Program (LOP) – Lead agency for cleanup oversight:	ACHCSA Fuel Leak Case No. RO0000229
Contact:	Mr. Keith Nowell
Secondary agency for cleanup oversight	San Francisco Bay Regional Water Quality Control Board (SFBRWQCB) No. 01-1588
Monitoring well gauging schedule:	Semi-Annual (1 st and 3 rd quarters): U-1 through U-6
Monitoring well sampling schedule:	Semi-Annual (1 st and 3 rd quarters): U-1 through U-6
Total number of monitoring wells:	6
Range of well depths (total depth below ground surface, bgs):	21.5 to 26.5 feet
Wells with historical measurable LNAPL (light non-aqueous phase liquid):	Yes (U-1 and U-2)
Generalized site geology:	Predominantly sandy silt, with sandy materials beginning at approximately 6-10 feet below ground surface (bgs)
Historical Depth to Water Range, in feet below top of casing (BTOC):	Min: 2.71 (U-6, Q3 2007) Max: 12.81 (MW-6, Q3 2004)
Historical Groundwater Elevation Range, in feet above mean sea level:	Min: -5.12 (U-6, Q1 2015) Max: 8.85 (U-4, Q2 2012)
Local Receptors:	Lake Merritt is 0.3 miles southwest of the site
Current Remediation Technique:	None

2.1 Regulatory Correspondence

There has been no recent regulatory correspondence during the current reporting period.

2.2 Remediation Status

No active remediation is currently taking place at this site.

2.3 Groundwater Monitoring

Groundwater monitoring and sampling was conducted at the site on March 12, 2015 by Antea Group per our standard sampling protocol (**Attachment B**). A total of six monitoring wells were gauged and sampled. A copy of Antea Group’s field notes are presented as **Attachment C**. Measured depths to groundwater, respective groundwater elevations, and the most recent groundwater analytical data are summarized in **Table 2**. Depth to water was measured to within 0.01 feet BTOC in monitoring wells U-1 through U-6 using a water level indicator. Historic laboratory analytical results are summarized in **Table 3, 3a, 3b, and 3c**. Gauging and sampling data from the most recent monitoring and sampling event are summarized below.



Well gauging and sampling date:	March 12, 2015
Wells gauged:	U-1 through U-6
Wells sampled:	U-1 through U-6
Purge method:	3 well casing volumes via electric, submersible pump
Sample collection method:	Disposable bailers
Groundwater parameters measured (Attachment C):	Dissolved oxygen (DO), temperature, conductivity, pH, turbidity, and oxidation-reduction potential (ORP)
Wells with measurable LNAPL:	None
Depth to Water Range (ft BTOC):	7.42 (U-5) to 10.57 (U-3)
Groundwater Elevation Range (ft above mean sea level):	5.12 (U-6) to 7.77 (U-4)
Change in depth to water from previous event (average change for all gauged wells):	0.16 increase
Groundwater Flow Direction and Gradient in foot per foot (ft/ft):	Variable: West 0.020 ft/ft and North 0.036

All monitoring and sampling activities for the site were conducted on March 12, 2015 by Antea Group and reviewed and certified by a California Professional Geologist.

2.3.1 Groundwater Sample Analysis

Groundwater samples collected from monitoring wells U-1 through U-6 were submitted with chain-of-custody documentation to Pace Analytical (Pace) in Davis, CA a California state-certified laboratory (No. 08263CA). Groundwater samples were analyzed for the following:

- TPHg, benzene, toluene, ethylbenzene, and total xylenes (BTEX), MTBE, tertiary amyl-methyl ether (TAME), tertiary-butyl alcohol (TBA), di-isopropyl ether (DIPE), ethyl tertiary-butyl ether (ETBE), and ethanol by Environmental Protection Agency (EPA) Method 8260B.

2.3.2 Groundwater Quality Data

Groundwater analytical results are tabulated in **Table 2** (current) and **Table 3, 3a, 3b, and 3c** (historical). During the March 2015 sampling event, the following ranges of contaminant concentrations were reported in the specified site monitoring wells (only the constituents above the laboratory's indicated reporting limits are shown):

Constituents	Number of Reported Concentrations Above LRL of Total Samples Analyzed	Minimum Reported Concentration, in µg/L (Sample ID)	Maximum Reported Concentration, in µg/L (Sample ID)
TPHg	3 of 6	56.1 (U-5)	1,810 (U-1)
Total Xylenes	1 of 6	2.4 (U-1)	2.4 (U-1)
MTBE	4 of 6	2.3 (U-6)	45.5 (U-2)



TBA	4 of 6	125 (U-5)	2,520 (U-2)
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Key: LRL = Laboratory reporting limits; µg/L = Micrograms per liter

2.3.3 Contaminants of Concern

TPHg: TPHg was above the laboratory’s indicated reporting limits in the groundwater samples collected and submitted for analysis from monitoring wells U-1 (1,810 µg/L), U-2 (219 µg/L), and U-5 (56.1 µg/L) during the current event.

Benzene: Benzene was below the laboratory’s indicated reporting limits in each of the groundwater samples collected and submitted for analysis during the current event.

MTBE: MTBE was above the laboratory’s indicated reporting limits in the groundwater samples collected and submitted for analysis from monitoring wells U-1 (3.8 µg/L), U-2 (45.5 µg/L), U-5 (4.8 µg/L), and U-6 (2.3 µg/L) during the current event.

In addition, total xylenes were present in the groundwater sample collected and submitted for analysis from monitoring well U-1 (2.4 µg/L), and TBA was present in the groundwater samples collected and submitted for analysis from monitoring wells U-1 (976 µg/L), U-2 (2,520 µg/L), U-5 (125 µg/L), and U-6 (179 µg/L). All other constituents tested were below the laboratory’s indicated reporting limits in the groundwater samples collected and submitted for analysis during the current event. The March 12, 2015 groundwater analytical results and historical groundwater monitoring and analytical results are presented in **Table 2, 3, 3a, 3b,** and **3c**. Pace Laboratory’s analytical report and chain-of-custody documentation are presented as **Attachment D**.

The March 2015 groundwater elevation contour map is presented as **Figure 3**. A dissolved phase TPHg isoconcentration map is presented as **Figure 4**. A dissolved phase MTBE isoconcentration map is presented as **Figure 5**. Historical groundwater flow directions are shown on a rose diagram, presented as **Figure 6**. Historical groundwater flow direction data are presented in **Table 4**. Graphs showing TPHg and MTBE concentrations and groundwater elevations for monitoring wells U-1, U-2, U-5, and U-6 are presented as **Attachment E**.

2.3.4 Waste Disposal Summary

Approximately 50 gallons of waste water were generated during well purging/sampling and equipment cleaning during the March 2015 groundwater monitoring and sampling event. The waste water is being stored in a 55-gallon steel drums on-site. Subsequent to waste profiling, the waste water will be transported and disposed of at an approved waste facility.

2.3.5 Quality Assurance / Quality Control

Antea Group’s QA/QC measures included use of a detailed QA/QC data validation check on the Pace laboratory analytical results for the March 2015 sampling event. Antea Group’s laboratory data validation checklist and the Pace laboratory report are presented in **Attachment D**. A summary of QA/QC information follows.

Laboratory QA/QC Performed:	Yes (validated by Antea Group)
Laboratory Data Qualifiers:	Yes – three qualifiers (1V, 2V, and 3V)



Validity of Laboratory Data:	Data set is valid
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- 1V Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results may be biased low due to carryover from the preceding sample. (Ethanol U-1_20150331)
- 2V Analyte recovery in the laboratory control sample (LCS) was outside QC limits due to matrix carryover within the analytical system from the preceding sample analysis. (Ethanol)
- 3V Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits due to matrix interferences. (Ethanol)

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 LOW THREAT CLOSURE POLICY CHECKLIST

There is one item in the Low Threat Closure Policy (LTCP) checklist on GeoTracker that need to be updated.

General Criteria:

- Section “e” states: “A Conceptual site model that assesses the nature, extent, and mobility of the release has been developed: No.” However, Antea Group submitted the *Site Conceptual Model – Draft* on February 28, 2014.

4.0 CONCLUSIONS AND RECOMMENDATION

Petroleum hydrocarbon impacted soil has been adequately assessed vertically and laterally beneath the site. Petroleum hydrocarbon impacted groundwater has not been adequately delineated off-site to the north. However, based on the historic groundwater flow direction, predominately to the northwest, further delineation to the north does not appear to be necessary.

During the most recent groundwater monitoring and sampling event the following TBA concentrations; U-1 (976 µg/L), U-2 (2,520 µg/L), U-5 (125 µg/L), and U-6 (179 µg/L) were reported. However, the groundwater beneath the site is not currently being used as a drinking water source, there are now wells within ½ mile of the site, and the closest well is an irrigation well located 0.71 miles northeast of the site. The closest potential receptor is Lake Merritt, located approximately 1,400 feet west southwest of the site. The potential impact to the lake is to aquatic life; however, the environmental screening level (ESL) "Estuary Aquatic Habitat Goal" for TBA is 18,000 µg/L. The highest current TBA concentration at the site was reported in monitoring well U-2 at 2,520 µg/L. This is significantly below the ESL for TBA.

Groundwater trends show that petroleum hydrocarbon impact to the groundwater is stable or declining (**Attachment E**). Antea Group addressed the data gaps in the Case Closure Request with a Focused Site Conceptual Model –Draft.

Semi-Annual Summary Report – October 2014 through March 2015

76 Service Station No. 5325

Oakland, CA

Antea Group Project No. I40255325



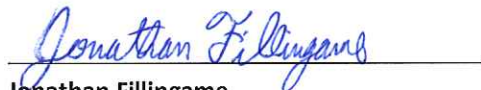
Based on the data obtained during the most recent groundwater monitoring and sampling event, there is currently no risk to human or aquatic life and recommends that this site be closed under the current low threat closure policy.

If this site is to remain open, Antea Group further recommends that, in the future, monitoring wells U-3 and U-4 be sampled, annually during the first quarter of each year.

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
Staff Geologist

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:



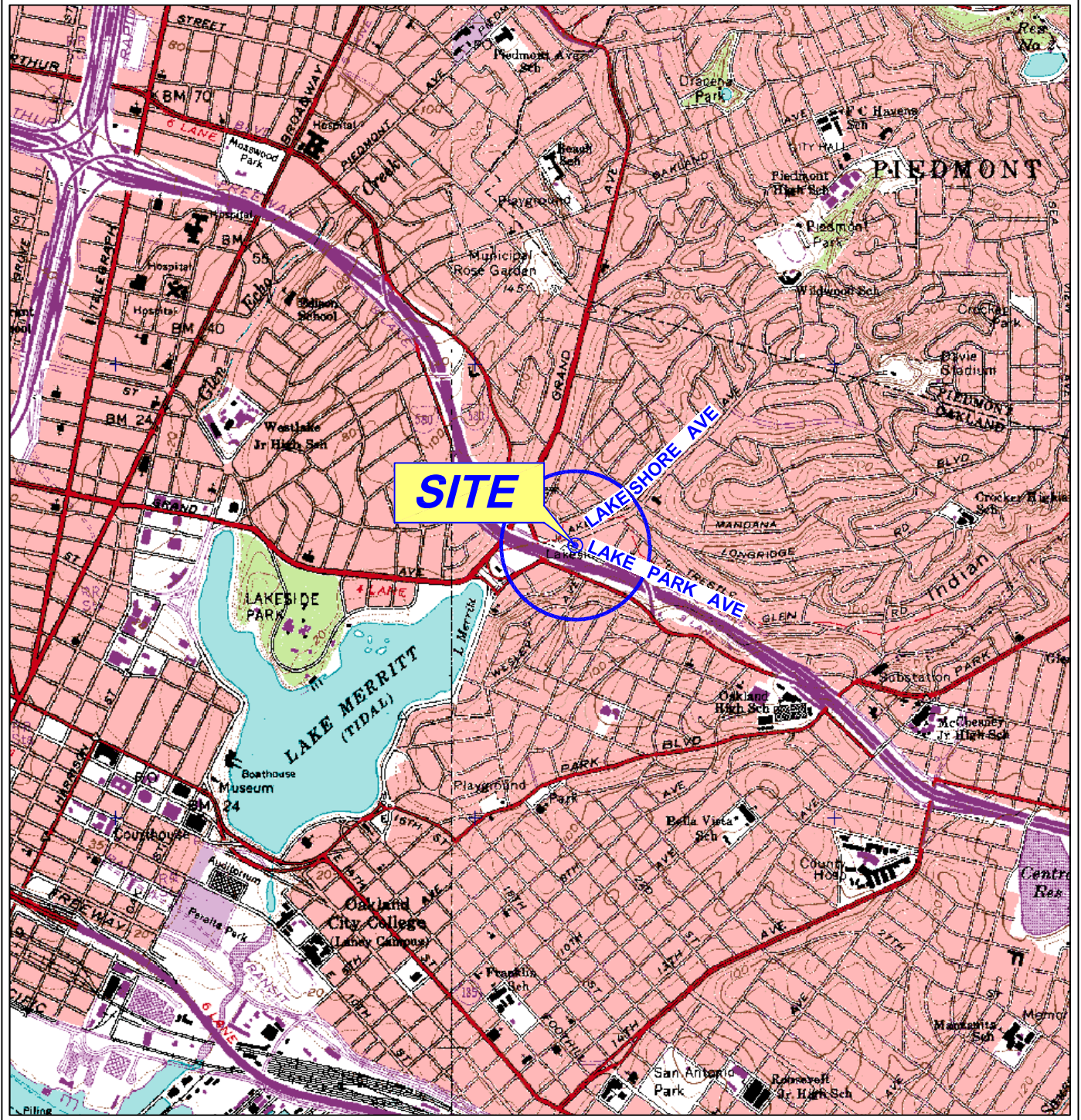
Date: 5/4/15

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

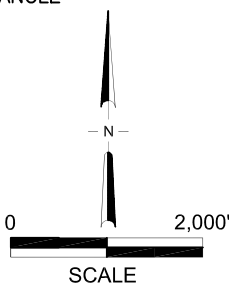
cc: GeoTracker (upload)

Figures

- Figure 1 Site Location Map
- Figure 2 Site Plan
- Figure 3 Groundwater Elevation Contour Map – March 12, 2015
- Figure 4 Dissolved Phase TPHg Isoconcentration Map – March 12, 2015
- Figure 5 Dissolved Phase MTBE Isoconcentration Map – March 12, 2015
- Figure 6 Historical Groundwater Flow Directions



GENERAL NOTES:
 BASE MAP FROM 3-D TOPO QUADS
 OAKLAND WEST & OAKLAND EAST, CA. QUADRANGLE
 7.5 MINUTE TOPOGRAPHIC MAP

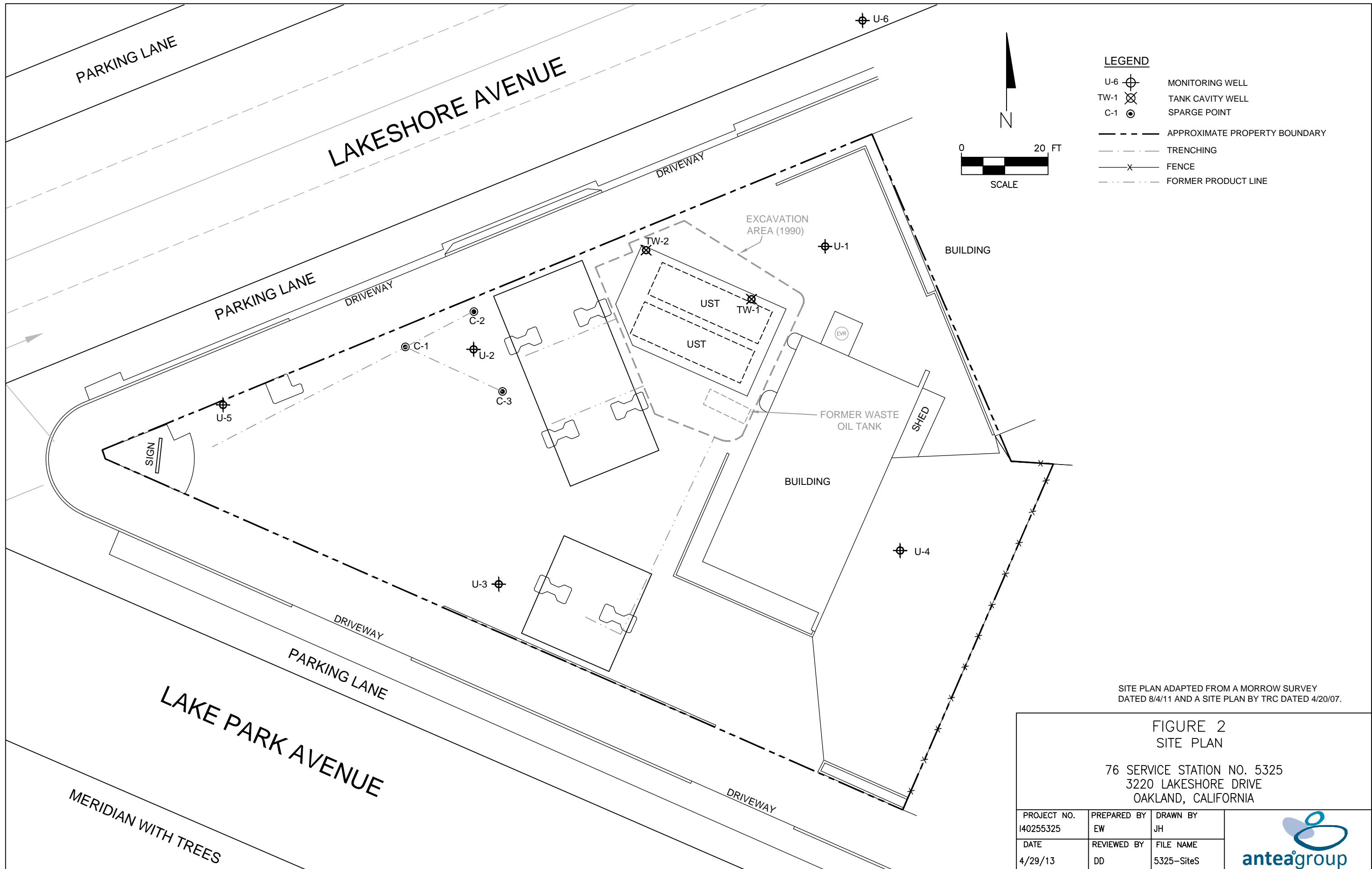


**FIGURE 1
 SITE LOCATION MAP**

76 SERVICE STATION NO. 5325
 3220 LAKESHORE AVENUE
 OAKLAND, CALIFORNIA

PROJECT NO. 140255325	DRAWN BY JH
FILE NO. 5325-SLM	PREPARED BY EW
DATE 28 JAN 11	REV. 2
	REVIEWED BY





LEGEND

- U-6 MONITORING WELL
- TW-1 TANK CAVITY WELL
- C-1 SPARGE POINT
- APPROXIMATE PROPERTY BOUNDARY
- TRENCHING
- FENCE
- FORMER PRODUCT LINE

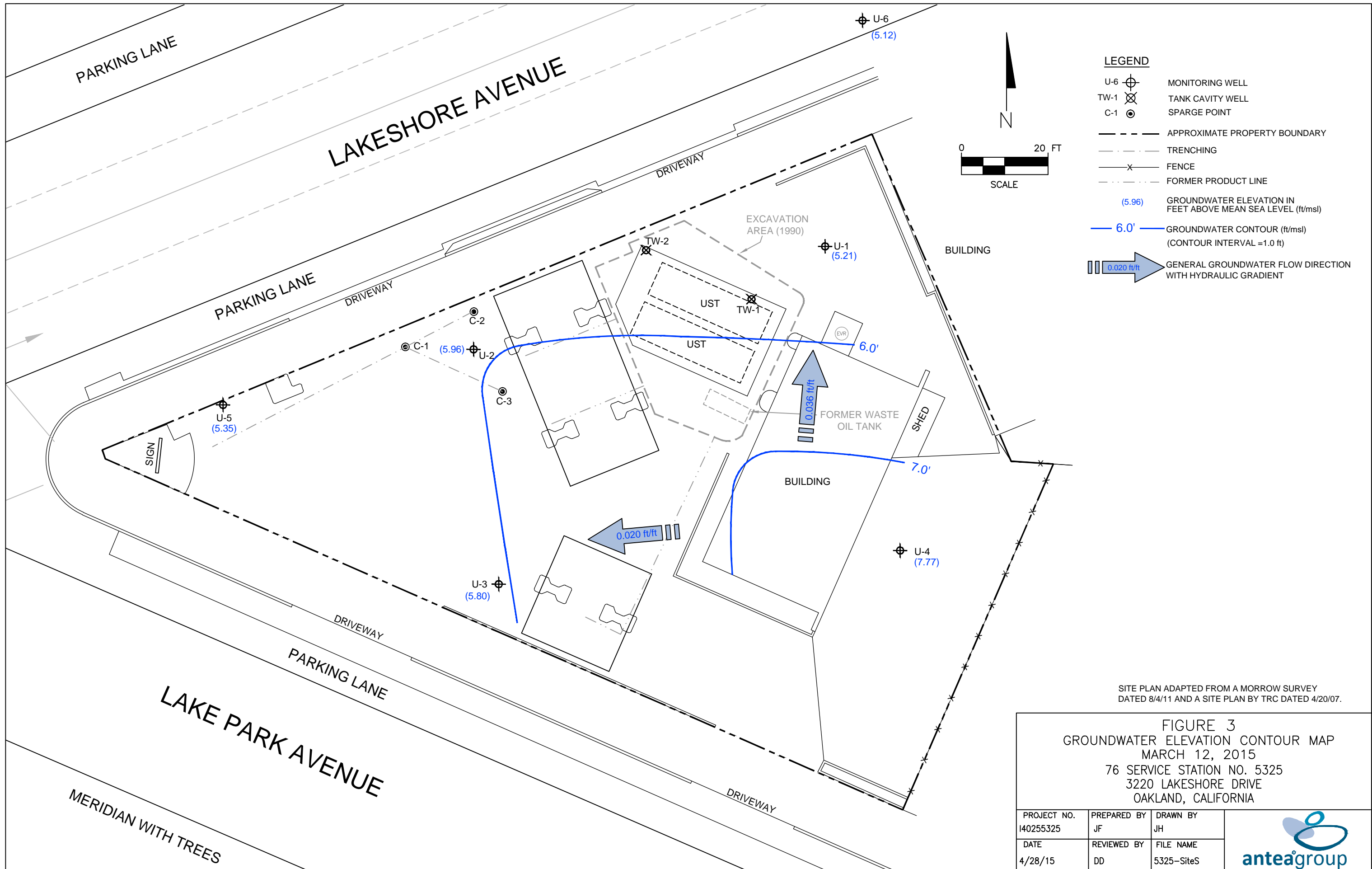


SITE PLAN ADAPTED FROM A MORROW SURVEY DATED 8/4/11 AND A SITE PLAN BY TRC DATED 4/20/07.

FIGURE 2
SITE PLAN

76 SERVICE STATION NO. 5325
3220 LAKESHORE DRIVE
OAKLAND, CALIFORNIA


PROJECT NO. 140255325	PREPARED BY EW	DRAWN BY JH	
DATE 4/29/13	REVIEWED BY DD	FILE NAME 5325-SiteS	

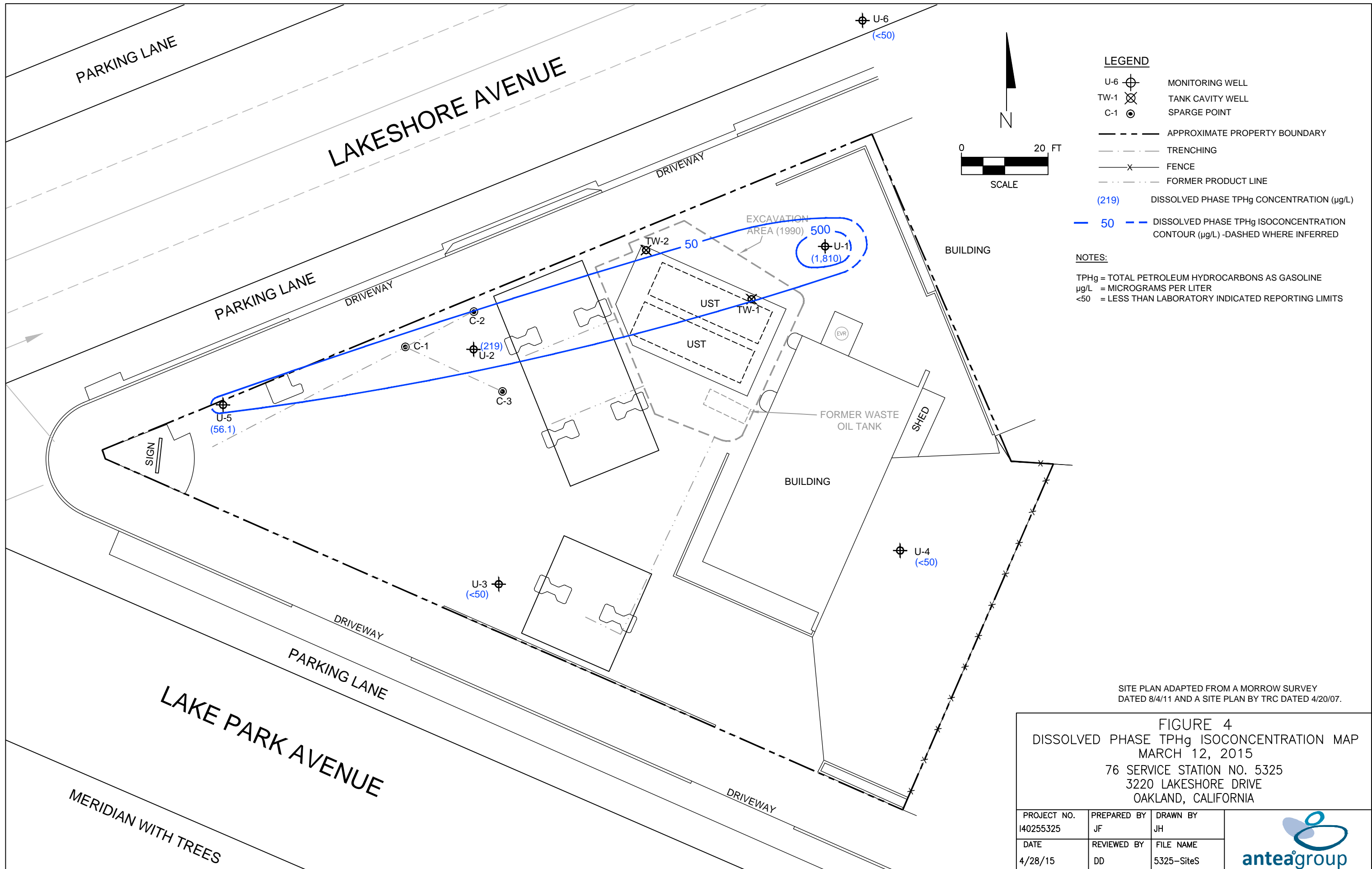


SITE PLAN ADAPTED FROM A MORROW SURVEY DATED 8/4/11 AND A SITE PLAN BY TRC DATED 4/20/07.

FIGURE 3
GROUNDWATER ELEVATION CONTOUR MAP
 MARCH 12, 2015
 76 SERVICE STATION NO. 5325
 3220 LAKESHORE DRIVE
 OAKLAND, CALIFORNIA

PROJECT NO. 140255325	PREPARED BY JF	DRAWN BY JH
DATE 4/28/15	REVIEWED BY DD	FILE NAME 5325-SiteS





LEGEND

- U-6 MONITORING WELL
- TW-1 TANK CAVITY WELL
- C-1 SPARGE POINT
- APPROXIMATE PROPERTY BOUNDARY
- TRENCHING
- FENCE
- FORMER PRODUCT LINE
- (219) DISSOLVED PHASE TPHg CONCENTRATION (µg/L)
- 50 DISSOLVED PHASE TPHg ISOCONCENTRATION CONTOUR (µg/L) -DASHED WHERE INFERRED
- 500 DISSOLVED PHASE TPHg ISOCONCENTRATION CONTOUR (µg/L) -DASHED WHERE INFERRED

NOTES:

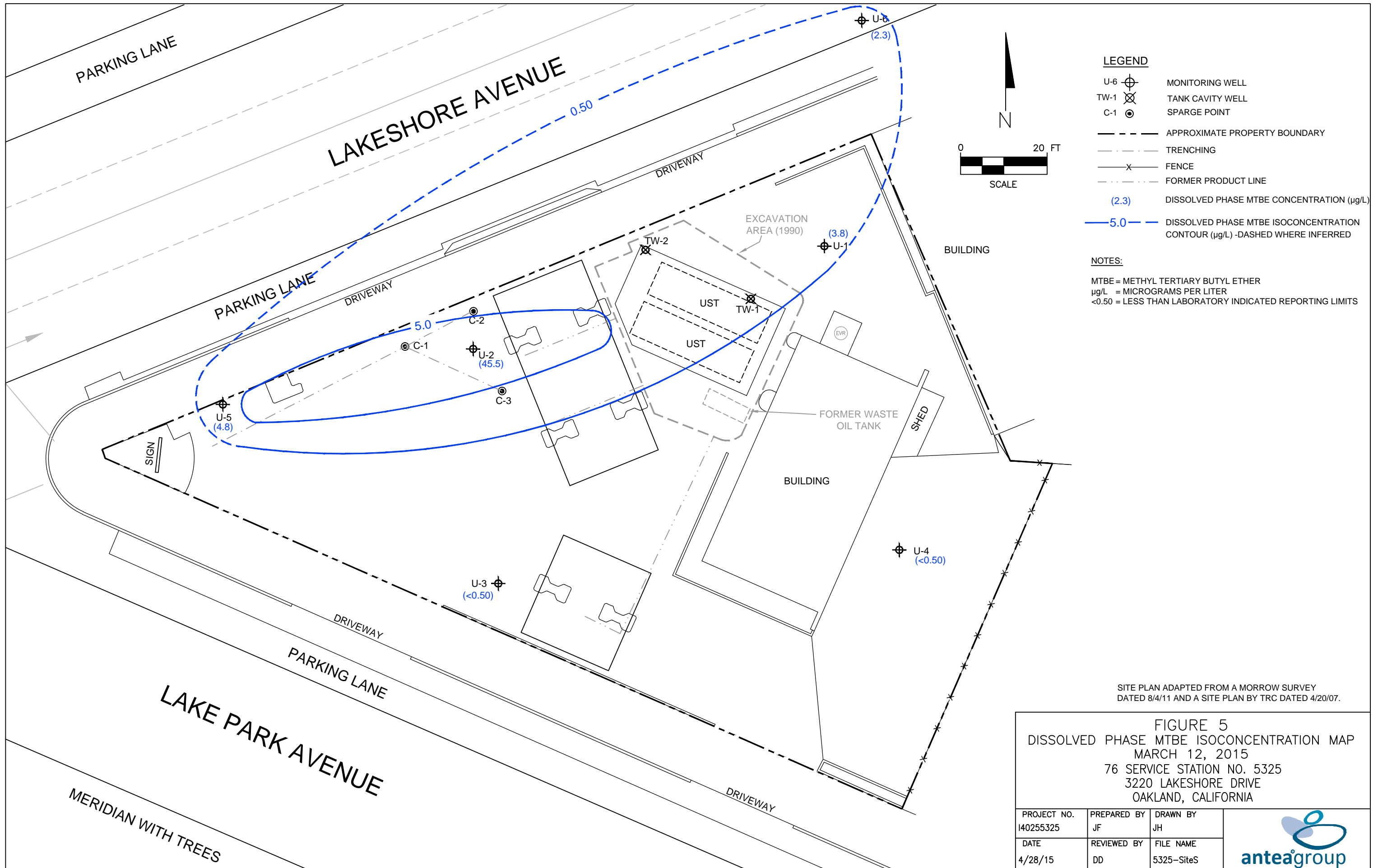
TPHg = TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
 µg/L = MICROGRAMS PER LITER
 <50 = LESS THAN LABORATORY INDICATED REPORTING LIMITS

SITE PLAN ADAPTED FROM A MORROW SURVEY DATED 8/4/11 AND A SITE PLAN BY TRC DATED 4/20/07.

FIGURE 4
 DISSOLVED PHASE TPHg ISOCONCENTRATION MAP
 MARCH 12, 2015
 76 SERVICE STATION NO. 5325
 3220 LAKESHORE DRIVE
 OAKLAND, CALIFORNIA

PROJECT NO. 140255325	PREPARED BY JF	DRAWN BY JH
DATE 4/28/15	REVIEWED BY DD	FILE NAME 5325-SiteS





LEGEND

- U-6 MONITORING WELL
- TW-1 TANK CAVITY WELL
- C-1 SPARGE POINT
- APPROXIMATE PROPERTY BOUNDARY
- TRENCHING
- FENCE
- FORMER PRODUCT LINE
- (2.3) DISSOLVED PHASE MTBE CONCENTRATION (µg/L)
- 5.0— DISSOLVED PHASE MTBE ISOCONCENTRATION CONTOUR (µg/L) -DASHED WHERE INFERRED

NOTES:
 MTBE = METHYL TERTIARY BUTYL ETHER
 µg/L = MICROGRAMS PER LITER
 <0.50 = LESS THAN LABORATORY INDICATED REPORTING LIMITS

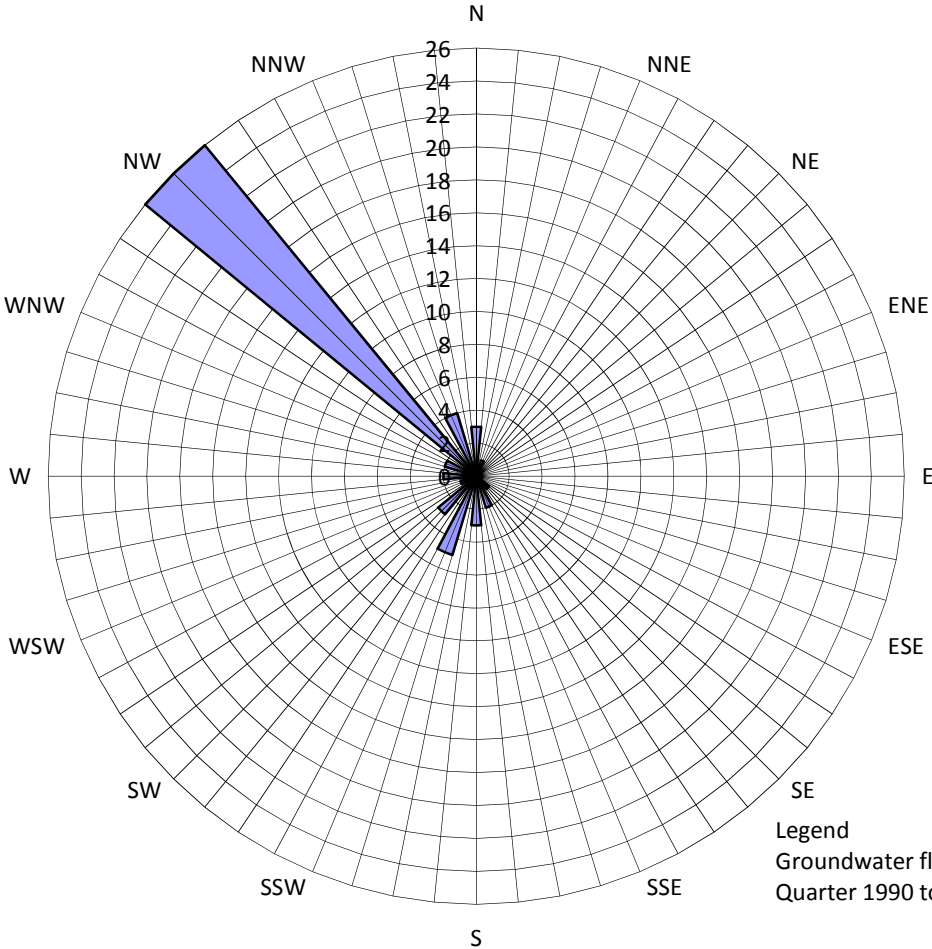
SITE PLAN ADAPTED FROM A MORROW SURVEY DATED 8/4/11 AND A SITE PLAN BY TRC DATED 4/20/07.

FIGURE 5
 DISSOLVED PHASE MTBE ISOCONCENTRATION MAP
 MARCH 12, 2015
 76 SERVICE STATION NO. 5325
 3220 LAKESHORE DRIVE
 OAKLAND, CALIFORNIA

PROJECT NO. 140255325	PREPARED BY JF	DRAWN BY JH
DATE 4/28/15	REVIEWED BY DD	FILE NAME 5325-SiteS



Figure 6
HISTORICAL GROUNDWATER FLOW DIRECTIONS
76 SERVICE STATION NO. 5325
3220 LAKESHORE AVENUE
OAKLAND, CALIFORNIA



Legend
Groundwater flow directions are based on data from the Third Quarter 1990 to the First Quarter 2015. 53 data points shown.

■ Groundwater Flow Direction

Tables

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

TABLE 1
Well Construction Details
76 Service Station No. 5325
3220 Lakeshore Drive
Oakland, California

Well I.D.	Construction Date	Elevation (TOC feet above MSL)	Conductor Boring Depth (feet bgs)	Conductor Borehole Diameter (inches)	Conductor Diameter (inches)	Boring Depth (feet bgs)	Borehole Diameter (inches)	Casing Diameter (inches)	Casing Material	Slot Size (inches)	Screened Interval (feet bgs)	Filter Pack Interval (feet bgs)	Bentonite Seal Interval (feet bgs)	Cement Seal Interval (feet bgs)	Comments
U-1	09/24/90		--	--	--	27	8	3	Sch 40 PVC	0.020	5-20	4-20	3-4, 20-23	1.5-3	
U-2	09/24/90		--	--	--	21.5	8	3	Sch 40 PVC	0.020	5-20	4-20	3-4	1.5-3	
U-3	09/24/90		--	--	--	21.5	8	3	Sch 40 PVC	0.020	5-20	4-20	3-4	1.5-3	
U-4	06/02/94		--	--	--	25	10	4	Sch 40 PVC	0.020	5-20	4-20	3.5-4, 20-25	1.5-3.5	
U-5	06/02/94		--	--	--	22	10	4	Sch 40 PVC	0.020	4.5-20	4-20	3.5-4, 20-21.5	1.5-3.5	
U-6	06/02/94		--	--	--	25	8	2	Sch 40 PVC	0.020	5-24	4-24	3.5-4, 24-24.5	1.5-4	
C-1	04/12/06		--	--	--	15	8	2	Sch 80 PVC	0.010	9.5-12	8-5-15	6.5-8.5	1-6.5	
C-2	04/12/06		--	--	--	17	8	2	Sch 80 PVC	0.010	11.5-14	10.5-17	8.5-10.5	1-8.5	
C-3	04/12/06		--	--	--	17	8	2	Sch 80 PVC	0.010	14.5-17	13.5-17	11.5-13.5	1-8.5	

Notes:

bgs = below ground surface

TOC = top of casing

MSL = mean sea level

-- = Not applicable

Elevations are in US survey feet, Vertical Datum is NAD 88

TABLE 2
CURRENT GROUNDWATER GAUGING AND ANALYTICAL DATA
76 SERVICE STATION NO. 5325
3220 LAKESHORE AVENUE
OAKLAND, CALIFORNIA



Well I.D.	Date	GROUNDWATER GAUGING DATA				GROUNDWATER ANALYTICAL DATA												
		TOC Elevation (ft)	Depth to Water (ft)	LNAPL Thickness (ft)	Water Elevation* (ft)	TPHg (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (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)
U-1	3/12/2015	14.24	9.03	NP	5.21	1,810	<0.50	<0.50	<0.50	2.4	3.8	<0.50	<0.50	<0.50	976	<5.0	<0.50	<0.50
U-2	3/12/2015	13.45	7.49	NP	5.96	219	<1.2	<1.2	<1.2	<2.5	45.5	<1.2	<1.2	<1.2	2,520	<12.5	<1.2	<1.2
U-3	3/12/2015	16.37	10.57	NP	5.80	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50
U-4	3/12/2015	16.55	8.78	NP	7.77	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50
U-5	3/12/2015	12.77	7.42	NP	5.35	56.1	<0.50	<0.50	<0.50	<1.0	4.8	<0.50	<0.50	<0.50	125	<5.0	<0.50	<0.50
U-6	3/12/2015	12.88	7.76	NP	5.12	<50	<0.50	<0.50	<0.50	<1.0	2.3	<0.50	<0.50	<0.50	179	<5.0	<0.50	<0.50

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
TPHg- Total petroleum hydrocarbons as gasoline
MTBE- Methyl tertiary-butyl ether
DIPE- Di-isopropyl ether
ETBE- Ethyl tertiary-butyl ether
TAME- Tertiary-amyl methyl ether
TBA- Tertiary-butyl alcohol
Bold - Above the laboratory's indicated reporting limit

TABLE 3
HISTORICAL GROUNDWATER GAUGING AND ANALYTICAL DATA
76 SERVICE STATION NO. 5325
3220 LAKESHORE AVENUE
OAKLAND, CALIFORNIA



Well I.D.	Date	GROUNDWATER GAUGING DATA				GROUNDWATER ANALYTICAL DATA													
		TOC Elevation (ft)	Depth to Water (ft)	LNAPL Thickness (ft)	Water Elevation* (ft)	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)
U-1	8/10/1990	--	--	--	--	690	38	75	8.6	130	--	--	--	--	--	--	--	--	--
	1/7/1991	--	--	--	--	250	22	16	4.2	17	--	--	--	--	--	--	--	--	--
	4/1/1991	--	--	--	--	160	13	8.6	1.0	15	--	--	--	--	--	--	--	--	--
	7/3/1991	--	--	--	--	140	21	4.3	0.36	17	--	--	--	--	--	--	--	--	--
	10/9/1991	--	--	--	--	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
	2/12/1992	--	--	--	--	250	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
	5/5/1992	--	--	--	--	230	1.2	ND	ND	ND	--	--	--	--	--	--	--	--	--
	6/11/1992	--	--	--	--	1,000	80	1.4	6.7	41	--	--	--	--	--	--	--	--	--
	8/20/1992	--	--	--	--	400	1.0	ND	ND	0.6	--	--	--	--	--	--	--	--	--
	2/22/1993	--	--	--	--	34,000	1,400	5,500	910	7,300	--	--	--	--	--	--	--	--	--
	5/7/1993	--	--	--	--	8,700	600	240	650	3,300	--	--	--	--	--	--	--	--	--
	8/8/1993	--	--	--	--	4,900	79	ND	832	270	--	--	--	--	--	--	--	--	--
	11/16/1993	5.32	8.60	NP	-3.28	690	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
	2/16/1994	5.32	8.53	NP	-3.21	6,800	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
	6/22/1994	8.46	8.39	NP	0.07	200	ND	ND	5.9	21	--	--	--	--	--	--	--	--	--
	9/22/1994	8.46	8.65	NP	-0.19	6,100	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
	12/24/1994	8.46	8.03	NP	0.43	50,000	2,500	9,700	2,400	17,000	--	--	--	--	--	--	--	--	--
	3/25/1995	8.46	7.71	0.36	1.02	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	6/21/1995	8.46	9.30	0.20	-0.69	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	9/19/1995	8.46	9.28	0.39	-0.53	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	12/19/1995	8.46	8.97	0.02	-0.50	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	3/18/1996	8.46	8.25	NP	0.21	27,000	ND	2,300	1,400	11,000	4,900	--	--	--	--	--	--	--	--
	6/27/1996	8.46	7.92	NP	0.54	120,000	540	4,300	2,600	26,000	ND	--	--	--	--	--	--	--	--
	9/26/1996	8.46	9.10	0.02	-0.63	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	12/9/1996	8.46	6.88	0.03	1.60	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	3/14/1997	8.46	9.02	0.55	-0.15	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	6/30/1997	8.46	8.40	0.01	0.07	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	9/19/1997	8.46	8.56	0.02	-0.09	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	12/12/1997	8.46	8.57	0.00	-0.11	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	3/3/1998	8.46	8.22	0.03	0.26	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	6/15/1998	8.46	8.36	NP	0.10	52,000	ND	900	1,800	13,000	ND	--	--	--	--	--	--	--	--
	9/30/1998	8.46	8.93	NP	-0.47	1,000,000	ND	2,600	13,000	83,000	4,800	--	--	--	--	--	--	--	--
	12/28/1998	8.46	8.56	NP	-0.10	1,100,000	ND	1,600	8,600	71,000	5,700	--	--	--	--	--	--	--	--
	3/22/1999	8.46	8.18	NP	0.28	130,000	470	1,100	2,000	28,000	5,700	--	--	--	--	--	--	--	--
	6/9/1999	8.46	9.36	NP	-0.90	40,000	230	640	590	13,000	3,500	2,100	--	--	--	--	--	--	--
	9/8/1999	8.46	9.52	NP	-1.06	55,000	217	202	745	14,300	6,890	6,690	--	--	--	--	--	--	--
	12/7/1999	8.46	9.67	NP	-1.21	41,200	89.3	ND	385	6,930	15,800	14,700	--	--	--	--	--	--	--
	3/13/2000	8.46	8.43	NP	0.03	48,000	490	610	2,400	10,000	22,000	23,000	--	--	--	--	--	--	--
	6/21/2000	8.46	9.44	NP	-0.98	37,000	200	ND	1,200	7,200	15,000	20,000	--	--	--	--	--	--	--
	9/27/2000	8.46	9.28	NP	-0.82	15,000	92	ND	540	2,800	74,000	83,000	ND	ND	ND	ND	--	ND	--
12/12/2000	8.46	9.36	NP	-0.90	50,000	ND	ND	250	1,900	12,000	15,000	--	--	--	--	--	--	--	
3/7/2001	8.46	8.44	NP	0.02	6,220	29.8	10.4	96.3	638	11,200	11,800	ND	ND	ND	ND	--	ND	--	
6/6/2001	8.46	9.28	NP	-0.82	5,200	17	ND	69	420	6,500	8,700	ND	ND	ND	ND	--	ND	--	
9/24/2001	8.46	9.39	NP	-0.93	4,300	36	<25	65	590	4,400	4,400	<1000	<1000	<1000	<20000	<400000	<1000	<1000	
12/10/2001	8.46	9.17	NP	-0.71	11,000	220	<100	380	1,500	5,100	5,100	<100	<100	<100	<4000	<8000	<100	<100	
3/11/2002	8.46	9.43	NP	-0.97	5,500	28	<20	360	690	6,400	6,300	<100	<100	<100	<5000	<25000	<100	<100	
6/4/2002	8.46	8.31	NP	0.15	4,600	31	<10	240	180	6,500	--	--	--	--	--	--	--	--	
9/3/2002	8.46	9.35	NP	-0.89	2,300	<12	<12	<12	68	3,500	4,700	<200	<200	<200	<10000	<50000	<200	<200	
12/3/2002	8.46	8.18	NP	0.28	<5000	<50	<50	<50	<100	--	4,700	<200	<200	<200	<10000	<50000	<200	<200	
3/4/2003	8.46	8.28	NP	0.18	8,900	26	<25	400	130	--	5,500	<100	<100	<100	<5000	<25000	<100	<100	

TABLE 3
HISTORICAL GROUNDWATER GAUGING AND ANALYTICAL DATA
76 SERVICE STATION NO. 5325
3220 LAKESHORE AVENUE
OAKLAND, CALIFORNIA



Well I.D.	Date	GROUNDWATER GAUGING DATA				GROUNDWATER ANALYTICAL DATA													
		TOC Elevation (ft)	Depth to Water (ft)	LNAPL Thickness (ft)	Water Elevation* (ft)	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)
U-2	8/8/1993	--	--	--	--	5,600	420	ND	410	670	--	--	--	--	--	--	--	--	--
	11/16/1993	4.53	8.17	NP	-3.64	510	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
	2/16/1994	4.53	7.73	NP	-3.20	980	49	13	2.7	40	--	--	--	--	--	--	--	--	--
	6/22/1994	7.62	7.59	NP	0.03	31,000	2,200	62	1,500	3,500	--	--	--	--	--	--	--	--	--
	9/22/1994	7.62	7.92	NP	-0.30	8,500	29	ND	ND	ND	--	--	--	--	--	--	--	--	--
	12/24/1994	7.62	7.26	NP	0.36	32,000	1,500	890	1,300	5,000	--	--	--	--	--	--	--	--	--
	3/25/1995	7.62	7.01	NP	0.61	170,000	1,900	21,000	4,800	33,000	--	--	--	--	--	--	--	--	--
	6/21/1995	7.62	6.98	NP	0.64	16,000	2,100	ND	1,800	1,700	--	--	--	--	--	--	--	--	--
	9/19/1995	7.62	7.69	NP	-0.07	3,000	610	ND	78	240	--	--	--	--	--	--	--	--	--
	12/19/1995	7.62	7.30	NP	0.32	1,600	140	55	52	270	--	--	--	--	--	--	--	--	--
	3/18/1996	7.62	6.44	NP	1.18	12,000	2,200	ND	1,200	2,200	22,000	--	--	--	--	--	--	--	--
	6/27/1996	7.62	7.40	NP	0.22	28,000	3,400	ND	2,800	3,100	3,000	--	--	--	--	--	--	--	--
	9/26/1996	7.62	7.90	NP	-0.28	5,900	750	ND	ND	ND	18,000	--	--	--	--	--	--	--	--
	12/9/1996	7.62	6.76	NP	0.86	13,000	5,100	290	980	370	2,700	--	--	--	--	--	--	--	--
	3/14/1997	7.62	7.11	0.02	0.53	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	6/30/1997	7.62	6.19	NP	1.43	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	9/19/1997	7.62	7.30	NP	0.32	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	12/12/1997	7.62	6.75	NP	0.87	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	3/3/1998	7.62	6.36	NP	1.26	80,000	3,000	1,100	820	16,000	16,000	--	--	--	--	--	--	--	--
	6/15/1998	7.62	6.51	NP	1.11	48,000	1,800	330	470	7,900	20,000	--	--	--	--	--	--	--	--
	9/30/1998	7.62	7.17	NP	0.45	60,000	1,300	ND	500	9,700	19,000	--	--	--	--	--	--	--	--
	12/28/1998	7.62	7.05	NP	0.57	63,000	590	160	320	5,600	16,000	--	--	--	--	--	--	--	--
	3/22/1999	7.62	6.82	NP	0.80	28,000	1,100	ND	360	2,900	25,000	--	--	--	--	--	--	--	--
	6/9/1999	7.62	7.51	NP	0.11	21,000	110	190	310	2,600	7,900	7,800	--	--	--	--	--	--	--
	9/8/1999	7.62	8.15	NP	-0.53	23,300	477	138	286	4,110	16,400	15,300	--	--	--	--	--	--	--
	12/7/1999	7.62	8.31	NP	-0.69	4,840	17.2	ND	ND	157	14,900	15,600	--	--	--	--	--	--	--
	3/13/2000	7.62	6.69	NP	0.93	11,000	380	160	ND	2,100	22,000	26,000	--	--	--	--	--	--	--
	6/21/2000	7.62	7.67	NP	-0.05	9,100	22	ND	ND	800	16,000	22,000	--	--	--	--	--	--	--
	9/27/2000	7.62	7.44	NP	0.18	2,900	43	ND	ND	39	20,000	26,000	--	--	--	--	--	--	--
	12/12/2000	7.62	7.51	NP	0.11	3,600	17	ND	ND	87	8,000	7,800	--	--	--	--	--	--	--
	3/7/2001	7.62	7.15	NP	0.47	1,670	51.0	ND	7.20	19.5	5,930	7,900	ND	ND	ND	ND	ND	ND	ND
	6/6/2001	7.62	7.57	NP	0.05	1,100	14	ND	9.3	35	9,200	10,000	ND	ND	ND	ND	ND	ND	ND
	9/24/2001	7.62	7.63	NP	-0.01	1,000	25	<2.5	12	100	9,800	11,000	<1000	<1000	<1000	<20000	<400000	<1000	<1000
	12/10/2001	7.62	6.78	NP	0.84	83	14	0.55	3.4	6.8	2,500	2,500	<50	<50	<50	<2000	<4000	<50	<50
	3/11/2002	7.62	7.11	NP	0.51	<1000	28	<10	40	31	11,000	11,000	<200	<200	<200	<10000	<50000	<200	<200
	6/4/2002	7.62	7.17	NP	0.45	7,700	32	<25	33	48	14,000	--	--	--	--	--	--	--	--
	9/3/2002	7.62	7.57	NP	0.05	5,200	<25	<25	<25	<25	11,000	15,000	<1000	<1000	<1000	<50000	<250000	<1000	<1000
	12/3/2002	7.62	7.67	NP	-0.05	<5000	<50	<50	<50	<100	--	3,200	<200	<200	<200	<10000	<50000	<200	<200
	3/4/2003	7.62	7.76	NP	-0.14	8,100	<50	<50	<50	<100	--	7,800	<200	<200	<200	<10000	<50000	<200	<200
	6/18/2003	7.62	6.86	NP	0.76	11,000	<50	<50	<50	<100	--	16,000	<200	<200	<200	<10000	<50000	<200	<200
9/24/2003	7.62	7.48	NP	0.14	<10000	<100	<100	<100	<200	--	10,000	<400	<400	<400	<20000	<100000	<400	<400	
12/2/2003	7.62	7.94	NP	-0.32	<10000	<100	<100	<100	<200	--	10,000	--	--	--	--	<100000	--	--	
3/30/2004	7.62	7.07	NP	0.55	12,000	<100	<100	<100	<200	--	11,000	<200	<100	<100	2,400	<10000	<100	<100	
6/7/2004	7.62	7.75	NP	-0.13	14,000	<100	<100	<100	<200	--	13,000	<200	<100	<100	2,600	<10000	<100	<100	
9/9/2004	7.62	8.64	NP	-1.02	<10000	<100	<100	<100	<200	--	9,500	<200	<100	<100	2,700	<10000	<100	<100	
12/20/2004	7.62	7.73	NP	-0.11	<5000	<50	<50	<50	<100	--	11,000	<100	<50	<50	3,500	<5000	<50	<50	
3/28/2005	7.62	6.23	NP	1.39	12,000	<50	<50	160	120	--	7,000	<50	<50	<0.50	830	<5000	<50	<50	
6/14/2005	7.62	7.05	NP	0.57	2,000	0.75	<0.50	3.7	1.1	--	2,400	<20	<20	<20	10,000	<2000	<20	<20	
9/28/2005	7.62	8.00	NP	-0.38	320	<0.50	<0.50	<0.50	<1.0	--	80	<0.50	<0.50	<0.50	13,000	<250	<0.50	<0.50	
12/29/2005	7.62	7.23	NP	0.39	<50	<0.50	<0.50	<0.50	<1.0	--	35	<0.50	<0.50	<0.50	11,000	<250	<0.50	<0.50	

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76 SERVICE STATION NO. 5325
3220 LAKESHORE AVENUE
OAKLAND, CALIFORNIA



Well I.D.	Date	GROUNDWATER GAUGING DATA				GROUNDWATER ANALYTICAL DATA													
		TOC Elevation (ft)	Depth to Water (ft)	LNAPL Thickness (ft)	Water Elevation* (ft)	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)
U-3	6/27/1996	10.98	11.15	NP	-0.17	440	49	50	51	140	50	--	--	--	--	--	--	--	--
	9/26/1996	10.98	11.55	NP	-0.57	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
	12/9/1996	10.98	10.11	NP	0.87	ND	ND	ND	ND	ND	29	--	--	--	--	--	--	--	--
	3/14/1997	10.98	10.86	NP	0.12	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
	6/30/1997	10.98	11.07	NP	-0.09	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
	9/19/1997	10.98	11.05	NP	-0.07	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
	12/12/1997	10.98	10.57	NP	0.41	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
	3/3/1998	10.98	9.84	NP	1.14	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
	6/15/1998	10.98	10.56	NP	0.42	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
	9/30/1998	10.98	11.11	NP	-0.13	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
	12/28/1998	10.98	10.96	NP	0.02	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
	3/22/1999	10.98	9.46	NP	1.52	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
	6/9/1999	10.98	11.01	NP	-0.03	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
	9/8/1999	10.98	11.31	NP	-0.33	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
	12/7/1999	10.98	11.26	NP	-0.28	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
	3/13/2000	10.98	8.27	NP	2.71	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
	6/21/2000	10.98	11.11	NP	-0.13	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
	9/27/2000	10.98	11.06	NP	-0.08	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
	12/12/2000	10.98	10.93	NP	0.05	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
	3/7/2001	10.98	8.31	NP	2.67	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
	6/6/2001	10.98	10.93	NP	0.05	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
	9/24/2001	10.98	11.02	NP	-0.04	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--	--	--	--	--	--	--
	12/10/2001	10.98	8.15	NP	2.83	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--	--	--	--	--	--	--
	3/11/2002	10.98	7.82	NP	3.16	<50	<0.50	<0.50	<0.50	<0.50	<5.0	--	--	--	--	--	--	--	--
	6/4/2002	10.98	10.57	NP	0.41	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--	--	--	--	--	--	--
	9/3/2002	10.98	10.93	NP	0.05	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--	--	--	--	--	--	--
	12/3/2002	10.98	10.65	NP	0.33	<50	<0.50	<0.50	<0.50	<1.0	--	<2.0	--	--	--	--	--	--	--
	3/4/2003	10.98	10.76	NP	0.22	<50	<0.50	<0.50	<0.50	<1.0	--	<2.0	--	--	--	--	--	--	--
	6/18/2003	10.98	10.26	NP	0.72	<50	<0.50	<0.50	<0.50	<1.0	--	<2.0	--	--	--	--	--	--	--
	9/24/2003	10.98	10.88	NP	0.10	<50	<0.50	<0.50	<0.50	<1.0	--	<2.0	--	--	--	--	<500	--	--
	12/2/2003	10.98	11.00	NP	-0.02	<50	<0.50	<0.50	<0.50	<1.0	--	<2.0	--	--	--	--	<500	--	--
	3/30/2004	10.98	10.64	NP	0.34	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<50	--	--
	6/7/2004	10.98	11.00	NP	-0.02	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<50	--	--
	9/9/2004	10.98	11.31	NP	-0.33	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<50	--	--
	12/20/2004	10.98	10.78	NP	0.20	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<50	--	--
	3/28/2005	10.98	9.80	NP	1.18	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<50	--	--
	6/14/2005	10.98	10.75	NP	0.23	<50	<0.50	<0.50	<0.50	1.2	--	<0.50	--	--	--	--	<50	--	--
	9/28/2005	10.98	11.15	NP	-0.17	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<250	--	--
	12/29/2005	10.98	10.40	NP	0.58	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<250	--	--
	3/27/2006	10.98	10.15	NP	0.83	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<250	--	--
6/12/2006	10.98	9.93	NP	1.05	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<250	--	--	
9/21/2006	10.98	11.01	NP	-0.03	<50	<0.50	<0.50	<0.50	<0.50	--	<0.50	--	--	--	--	<250	--	--	
12/21/2006	10.98	10.92	NP	0.06	<50	<0.50	<0.50	<0.50	<0.50	--	<0.50	--	--	--	--	<250	--	--	
3/28/2007	10.98	10.84	NP	0.14	<50	<0.50	<0.50	<0.50	<0.50	--	<0.50	--	--	--	--	<250	--	--	
6/27/2007	10.98	10.93	NP	0.05	<50	<0.50	<0.50	<0.50	<0.50	--	<0.50	--	--	--	--	<250	--	--	
9/26/2007	10.98	11.01	NP	-0.03	770	<0.50	<0.50	<0.50	<0.50	<0.50	--	18	--	--	--	<250	--	--	
12/27/2007	10.98	10.93	NP	0.05	<50	<0.50	<0.50	<0.50	<1.0	--	0.63	--	--	--	--	<250	--	--	
3/26/2008	10.98	10.84	NP	0.14	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<250	--	--	
6/18/2008	10.98	10.89	NP	0.09	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<250	--	--	
9/24/2008	10.98	10.89	NP	0.09	<50	<0.50	<0.50	<0.50	<1.0	--	0.87	--	--	--	--	<250	--	--	

TABLE 3
HISTORICAL GROUNDWATER GAUGING AND ANALYTICAL DATA
76 SERVICE STATION NO. 5325
3220 LAKESHORE AVENUE
OAKLAND, CALIFORNIA



Well I.D.	Date	GROUNDWATER GAUGING DATA				GROUNDWATER ANALYTICAL DATA													
		TOC Elevation (ft)	Depth to Water (ft)	LNAPL Thickness (ft)	Water Elevation* (ft)	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)
U-5	9/26/1996	6.98	7.13	NP	-0.15	ND	ND	0.57	ND	0.96	ND	--	--	--	--	--	--	--	--
	12/9/1996	6.98	5.90	NP	1.08	1,300	29	46	ND	140	97	--	--	--	--	--	--	--	--
	3/14/1997	6.98	6.98	NP	0.00	ND	ND	ND	ND	ND	14	--	--	--	--	--	--	--	--
	6/30/1997	6.98	7.07	NP	-0.09	4,200	74	51	180	980	270	--	--	--	--	--	--	--	--
	9/19/1997	6.98	6.78	NP	0.20	6,300	160	13	370	1,000	480	--	--	--	--	--	--	--	--
	12/12/1997	6.98	6.94	NP	0.04	60	1.3	ND	1.6	2.1	47	--	--	--	--	--	--	--	--
	3/3/1998	6.98	6.50	NP	0.48	1,700	29	ND	150	190	330	--	--	--	--	--	--	--	--
	6/15/1998	6.98	6.84	NP	0.14	1,500	32	ND	91	83	330	--	--	--	--	--	--	--	--
	9/30/1998	6.98	7.30	NP	-0.32	1,700	44	ND	39	150	60	--	--	--	--	--	--	--	--
	12/28/1998	6.98	7.25	NP	-0.27	1,400	59	ND	13	27	150	--	--	--	--	--	--	--	--
	3/22/1999	6.98	6.86	NP	0.12	780	8.9	ND	0.76	4.5	350	--	--	--	--	--	--	--	--
	6/9/1999	6.98	7.28	NP	-0.30	1,000	ND	ND	10	35	280	350	--	--	--	--	--	--	--
	9/8/1999	6.98	7.51	NP	-0.53	2,620	26.2	ND	32.2	157	280	239	--	--	--	--	--	--	--
	12/7/1999	6.98	7.67	NP	-0.69	949	9.26	ND	11.2	22.7	235	301	--	--	--	--	--	--	--
	3/13/2000	6.98	6.73	NP	0.25	880	12	1.0	5.6	8.7	46	37	--	--	--	--	--	--	--
	6/21/2000	6.98	7.38	NP	-0.40	700	4.0	ND	0.99	4.0	120	140	--	--	--	--	--	--	--
	9/27/2000	6.98	7.44	NP	-0.46	400	1.9	ND	ND	1.5	160	250	--	--	--	--	--	--	--
	12/12/2000	6.98	7.67	NP	-0.69	770	3.2	ND	ND	ND	27	13	--	--	--	--	--	--	--
	3/7/2001	6.98	6.82	NP	0.16	623	5.15	ND	ND	0.669	35.7	43.4	ND	ND	ND	ND	ND	ND	ND
	6/6/2001	6.98	7.42	NP	-0.44	110	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
	9/24/2001	6.98	7.50	NP	-0.52	270	<0.50	<0.50	<0.50	<0.50	40	42	<10	<10	<10	<200	<4000	<10	<10
	12/10/2001	6.98	6.65	NP	0.33	420	13	0.60	0.66	<0.50	<2.5	--	--	--	--	--	--	--	--
	3/11/2002	6.98	7.00	NP	-0.02	260	<0.50	<0.50	<0.50	<0.50	42	47	<2.0	<2.0	<2.0	<100	<500	<2.0	<2.0
	6/4/2002	6.98	6.71	NP	0.27	170	<0.50	0.77	0.87	0.69	29	--	--	--	--	--	--	--	--
	9/3/2002	6.98	7.46	NP	-0.48	<50	<0.50	<0.50	<0.50	<0.50	37	53	<2.0	<2.0	<2.0	<100	<500	<2.0	<2.0
	12/3/2002	6.98	6.63	NP	0.35	320	<0.50	<0.50	5.7	<1.0	--	11	<2.0	<2.0	<2.0	<100	<500	<2.0	<2.0
	3/4/2003	6.98	6.75	NP	0.23	100	<0.50	<0.50	<0.50	<1.0	--	44	<2.0	<2.0	<2.0	<100	<500	<2.0	<2.0
	6/18/2003	6.98	6.25	NP	0.73	51	<0.50	<0.50	<0.50	<1.0	--	36	<2.0	<2.0	<2.0	<100	<500	<2.0	<2.0
	9/24/2003	6.98	6.86	NP	0.12	<50	<0.50	<0.50	<0.50	<1.0	--	<2.0	--	--	--	--	<500	--	--
	12/2/2003	6.98	7.11	NP	-0.13	<50	<0.50	<0.50	<0.50	<1.0	--	24	--	--	--	--	<500	--	--
	3/30/2004	6.98	6.88	NP	0.10	100	<0.50	<0.50	<0.50	<1.0	--	130	<1.0	<0.50	<0.50	52	<50	<0.50	<0.50
	6/7/2004	6.98	8.52	NP	-1.54	250	<0.50	<0.50	<0.50	<1.0	--	160	<1.0	<0.5	<0.5	69	<50	<0.5	<0.5
	9/9/2004	6.98	12.27	NP	-5.29	340	<0.50	<0.50	<0.50	<1.0	--	260	<1.0	<0.50	<0.50	130	<50	<0.50	<0.50
	12/20/2004	6.98	7.51	NP	-0.53	130	<0.50	<0.50	1.9	2.0	--	120	--	--	--	--	<50	--	--
	3/28/2005	6.98	7.21	NP	-0.23	670	<2.0	<2.0	<2.0	<4.0	--	230	<0.50	<0.50	<0.50	150	<50	<0.50	<0.50
	6/14/2005	6.98	7.46	NP	-0.48	160	<0.50	<0.50	<0.50	<1.0	--	400	<0.50	<0.50	<0.50	160	<100	<0.50	<0.50
	9/28/2005	6.98	9.59	NP	-2.61	460	<0.50	<0.50	<0.50	<1.0	--	370	<0.50	<0.50	<0.50	220	<250	<0.50	<0.50
	12/29/2005	6.98	7.53	NP	-0.55	150	<0.50	<0.50	<0.50	<1.0	--	190	<0.50	<0.50	<0.50	280	<250	<0.50	<0.50
	3/27/2006	6.98	6.28	NP	0.70	450	<0.50	<0.50	8.3	<1.0	--	70	--	--	--	--	<250	--	--
	6/12/2006	6.98	6.44	NP	0.54	370	<0.50	<0.50	<0.50	<1.0	--	61	--	--	--	--	<250	--	--
	9/21/2006	6.98	6.59	NP	0.39	130	<0.50	<0.50	<0.50	<0.50	--	35	--	--	--	--	<250	--	--
12/21/2006	6.98	6.92	NP	0.06	230	<0.50	<0.50	0.58	<0.50	--	11	--	--	--	--	<250	--	--	
3/28/2007	6.98	5.11	NP	1.87	400	<0.50	<0.50	5.4	<0.50	--	13	<0.50	<0.50	<0.50	870	<250	<0.50	<0.50	
6/27/2007	6.98	4.40	NP	2.58	210	<0.50	<0.50	2.4	<0.50	--	18	<0.50	<0.50	<0.50	220	<250	<0.50	<0.50	
9/26/2007	6.98	4.71	NP	2.27	740	<0.50	<0.50	<0.50	<0.50	--	18	--	--	--	--	<250	--	--	
12/27/2007	6.98	6.76	NP	0.22	180	<0.50	<0.50	<0.50	<1.0	--	18	--	--	--	--	<250	--	--	
3/26/2008	6.98	6.40	NP	0.58	310	<0.50	0.64	1.3	1.0	--	27	--	--	--	--	<250	--	--	
6/18/2008	6.98	5.71	NP	1.27	790	<0.50	<0.50	2.4	<1.0	--	22	--	--	--	--	<250	--	--	
9/24/2008	6.98	5.44	NP	1.54	860	1.2	<0.50	3.2	3.7	--	16	--	--	--	--	<250	--	--	
12/22/2008	6.98	6.82	NP	0.16	620	<0.50	<0.50	0.54	1.3	--	13	--	--	--	--	<250	--	--	

TABLE 3
HISTORICAL GROUNDWATER GAUGING AND ANALYTICAL DATA
76 SERVICE STATION NO. 5325
3220 LAKESHORE AVENUE
OAKLAND, CALIFORNIA



Well I.D.	Date	GROUNDWATER GAUGING DATA				GROUNDWATER ANALYTICAL DATA													
		TOC Elevation (ft)	Depth to Water (ft)	LNAPL Thickness (ft)	Water Elevation* (ft)	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)
U-5	3/26/2009	6.98	6.19	NP	0.79	310	<0.50	<0.50	<0.50	<1.0	--	9.4	--	--	--	--	<250	--	--
	6/23/2009	6.98	5.50	NP	1.48	80	<0.50	<0.50	<0.50	<1.0	--	7.1	--	--	--	--	<250	--	--
	12/3/2009	6.98	6.02	NP	0.96	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/4/2009	--	--	--	--	160	<0.50	<0.50	<0.50	<1.0	--	4.6	<0.50	<0.50	<0.50	79.4	<250	<1.0	<1.0
	6/28/2010	6.98	5.51	NP	1.47	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/30/2010	6.98	5.71	NP	1.27	144	<0.50	<0.50	<0.50	<1.5	--	3.8	<0.50	<0.50	<0.50	66.6	<250	<1.0	<1.0
	12/20/2010	6.98	5.82	NP	1.16	164	<0.50	<0.50	<0.50	<1.5	--	3.9	<0.50	<0.50	<0.50	67.7	<250	<1.0	<1.0
	6/3/2011	6.98	6.05	NP	0.93	85.0	<0.50	<0.50	<0.50	<1.5	--	3.0	<0.50	<0.50	<0.50	61.6	<250	<1.0	<1.0
	12/5/2011	12.77	5.83	NP	6.94	279	<0.50	<0.50	<0.50	<1.5	--	3.8	<0.50	<0.50	<0.50	86.6	<250	<1.0	<1.0
	6/6/2012	12.77	6.90	NP	5.87	66.3	<0.50	<0.50	<0.50	<1.5	--	2.4	<0.50	<0.50	<0.50	46.3	<250	<1.0	<1.0
	12/19/2012	12.77	7.36	NP	5.41	88	<0.50	<0.50	<0.50	<0.50	--	5.1	<0.50	<0.50	<0.50	110	<5.0	<0.50	<0.50
	3/13/2013	12.77	7.62	NP	5.15	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/13/2013	12.77	7.16	NP	5.61	<50	<0.50	<0.50	<0.50	<0.50	--	12	<0.50	<0.50	<0.50	200	<5.0	<0.50	<0.50
	3/13/2014	12.77	7.52	NP	5.25	50	<0.50	<0.50	<0.50	<0.50	--	4.1	<0.50	<0.50	<0.50	100	<5.0	<0.50	<0.50
9/11/2014	12.77	6.91	NP	5.86	<50	<0.50	<0.50	<0.50	<0.50	--	6.4	<0.50	<0.50	<0.50	130	<5.0	<0.50	<0.50	
3/12/2015	12.77	7.42	NP	5.35	56.1	<0.50	<0.50	<0.50	<1.0	--	4.8	<0.50	<0.50	<0.50	125	<5.0	<0.50	<0.50	
U-6	6/22/1994	7.14	7.13	NP	0.01	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
	9/22/1994	7.14	7.34	NP	-0.20	130	1.3	0.8	ND	0.73	--	--	--	--	--	--	--	--	--
	12/24/1994	7.14	6.67	NP	0.47	6,900	500	59	600	380	--	--	--	--	--	--	--	--	--
	3/25/1995	7.14	6.28	NP	0.86	47,000	450	1,300	1,700	8,200	--	--	--	--	--	--	--	--	--
	6/21/1995	7.14	7.59	NP	-0.45	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
	9/19/1995	7.14	7.69	NP	-0.55	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
	12/19/1995	7.14	7.75	NP	-0.61	210	2.5	1.0	2.9	17	--	--	--	--	--	--	--	--	--
	3/18/1996	7.14	6.86	NP	0.28	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
	6/27/1996	7.14	6.51	NP	0.63	ND	ND	ND	ND	ND	510	--	--	--	--	--	--	--	--
	9/26/1996	7.14	7.61	NP	-0.47	ND	ND	ND	ND	ND	1,400	--	--	--	--	--	--	--	--
	12/9/1996	7.14	5.88	NP	1.26	1,200	29	48	6.4	140	58	--	--	--	--	--	--	--	--
	3/14/1997	7.14	7.30	NP	-0.16	ND	ND	ND	ND	ND	1,500	--	--	--	--	--	--	--	--
	6/30/1997	7.14	7.34	NP	-0.20	ND	ND	ND	ND	ND	990	--	--	--	--	--	--	--	--
	9/19/1997	7.14	7.25	NP	-0.11	ND	ND	ND	ND	ND	1,400	--	--	--	--	--	--	--	--
	12/12/1997	7.14	7.28	NP	-0.14	ND	ND	ND	ND	ND	680	--	--	--	--	--	--	--	--
	3/3/1998	7.14	7.00	NP	0.14	ND	ND	ND	ND	ND	1,600	--	--	--	--	--	--	--	--
	6/15/1998	7.14	7.17	NP	-0.03	ND	ND	ND	ND	ND	1,000	--	--	--	--	--	--	--	--
	9/30/1998	7.14	7.90	NP	-0.76	ND	ND	ND	ND	ND	1,200	--	--	--	--	--	--	--	--
	12/28/1998	7.14	7.78	NP	-0.64	ND	ND	ND	ND	ND	730	--	--	--	--	--	--	--	--
	3/22/1999	7.14	7.46	NP	-0.32	ND	ND	ND	ND	ND	1,800	--	--	--	--	--	--	--	--
	6/9/1999	7.14	7.73	NP	-0.59	ND	ND	ND	ND	ND	1,000	850	--	--	--	--	--	--	--
	9/8/1999	7.14	7.94	NP	-0.80	ND	ND	ND	ND	ND	851	1,040	--	--	--	--	--	--	--
	12/7/1999	7.14	8.10	NP	-0.96	ND	ND	ND	ND	ND	1,140	1,150	--	--	--	--	--	--	--
	3/13/2000	7.14	6.94	NP	0.20	ND	ND	ND	ND	ND	560	670	--	--	--	--	--	--	--
	6/21/2000	7.14	7.84	NP	-0.70	ND	ND	ND	ND	ND	400	590	--	--	--	--	--	--	--
	9/27/2000	7.14	7.67	NP	-0.53	ND	ND	ND	ND	ND	2,500	2,800	--	--	--	--	--	--	--
	12/12/2000	7.14	7.73	NP	-0.59	ND	ND	ND	ND	ND	590	580	--	--	--	--	--	--	--
	3/7/2001	7.14	7.26	NP	-0.12	ND	ND	ND	ND	ND	310	321	ND	ND	ND	ND	ND	ND	ND
	6/6/2001	7.14	7.80	NP	-0.66	ND	ND	ND	ND	ND	250	330	ND	ND	ND	ND	ND	ND	ND
	9/24/2001	7.14	7.82	NP	-0.68	<50	<0.50	<0.50	<0.50	<0.50	530	660	<100	<100	<100	<2000	<40000	<100	<100
12/10/2001	7.14	7.15	NP	-0.01	<50	<0.50	<0.50	<0.50	<0.50	220	220	<5.0	<5.0	<5.0	<200	<400	<5.0	<5.0	
3/11/2002	7.14	7.32	NP	-0.18	<50	<0.50	<0.50	<0.50	<0.50	720	760	<8.0	<8.0	<8.0	<400	<2000	<8.0	<8.0	
6/4/2002	7.14	7.17	NP	-0.03	250	<1.0	<1.0	<1.0	<1.0	470	--	--	--	--	--	--	--	--	
9/3/2002	7.14	7.71	NP	-0.57	420	<2.5	<2.5	<2.5	4.7	860	1,200	<40	<40	<40	<2000	<10000	<40	<40	

**TABLE 3
HISTORICAL GROUNDWATER GAUGING AND ANALYTICAL DATA
76 SERVICE STATION NO. 5325
3220 LAKESHORE AVENUE
OAKLAND, CALIFORNIA**



Well I.D.	Date	GROUNDWATER GAUGING DATA				GROUNDWATER ANALYTICAL DATA														
		TOC Elevation (ft)	Depth to Water (ft)	LNAPL Thickness (ft)	Water Elevation* (ft)	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)	
U-6	12/3/2002	7.14	6.92	NP	0.22	<500	<5.0	<5.0	<5.0	<10	--	870	<20	<20	<20	<1000	<5000	<20	<20	
	3/4/2003	7.14	7.01	NP	0.13	2,300	<10	<10	<10	<20	--	2,700	<40	<40	<40	<2000	<10000	<40	<40	
	6/18/2003	7.14	6.59	NP	0.55	1,300	<10	<10	<10	<20	--	1,700	<40	<40	<40	<2000	<10000	<40	<40	
	9/24/2003	7.14	7.23	NP	-0.09	<10000	<100	<100	<100	<200	--	1,500	<400	<400	<400	<20000	<100000	<400	<400	
	12/2/2003	7.14	7.80	NP	-0.66	1,300	<10	<10	<10	<20	--	1,800	--	--	--	--	<10000	--	--	
	3/30/2004	7.14	7.32	NP	-0.18	1,200	<10	<10	<10	<20	--	1,700	<20	<10	<10	770	<1000	<10	<10	
	6/7/2004	7.14	9.35	NP	-2.21	1,700	<10	<10	<10	<20	--	1,800	<20	<10	<10	110	<1000	<10	<10	
	9/9/2004	7.14	12.81	NP	-5.67	<1000	<10	<10	<10	<20	--	1,400	<20	<10	<10	1,900	<1000	<10	<10	
	12/20/2004	7.14	7.96	NP	-0.82	320	<2.5	<2.5	<2.5	<5.0	--	65	<5.0	<2.5	<2.5	5,000	<250	<2.5	<2.5	
	3/28/2005	7.14	7.07	NP	0.07	<50	<0.50	<0.50	<0.50	<1.0	--	150	<0.50	<0.50	<0.50	990	--	<2.5	<0.50	
	6/14/2005	7.14	7.88	NP	-0.74	<100	<1.0	<1.0	<1.0	<2.0	--	20	<0.50	<0.50	<0.50	<5.0	<100	<0.5	<0.5	
	9/28/2005	7.14	10.43	NP	-3.29	150	<0.50	<0.50	<0.50	<1.0	--	4.6	<0.50	<0.50	<0.50	3,800	<250	<0.50	<0.50	
	12/29/2005	7.14	7.63	NP	-0.49	<50	<0.50	<0.50	<0.50	<1.0	--	13	<0.50	<0.50	<0.50	1,100	<250	<0.50	<0.50	
	3/27/2006	7.14	6.15	NP	0.99	<50	<0.50	<0.50	<0.50	<1.0	--	8.1	--	--	--	--	<250	--	--	
	6/12/2006	7.14	6.59	NP	0.55	<50	<0.50	<0.50	<0.50	<1.0	--	6.9	--	--	--	--	<250	--	--	
	9/21/2006	7.14	6.90	NP	0.24	<50	<0.50	<0.50	<0.50	<0.50	--	3.1	--	--	--	--	<250	--	--	
	12/21/2006	7.14	7.36	NP	-0.22	<50	<0.50	<0.50	<0.50	<0.50	--	1.2	--	--	--	--	<250	--	--	
	3/28/2007	7.14	3.48	NP	3.66	<50	<0.50	<0.50	<0.50	<0.50	--	<0.50	--	--	--	--	<250	--	--	
	6/27/2007	7.14	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI
	9/26/2007	7.14	2.71	NP	4.43	54	<0.50	<0.50	<0.50	<0.50	--	<0.50	--	--	--	--	<250	--	--	
	12/27/2007	7.14	6.96	NP	0.18	<50	<0.50	<0.50	<0.50	<1.0	--	2.4	--	--	--	--	<250	--	--	
	3/26/2008	7.14	6.55	NP	0.59	<50	<0.50	<0.50	<0.50	<1.0	--	2.3	--	--	--	--	<250	--	--	
	6/18/2008	7.14	6.71	NP	0.43	<50	<0.50	<0.50	<0.50	<1.0	--	0.59	--	--	--	--	<250	--	--	
	9/24/2008	7.14	5.50	NP	1.64	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<250	--	--	
	12/22/2008	7.14	6.48	NP	0.66	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<250	--	--	
	3/26/2009	7.14	6.09	NP	1.05	<250	<2.5	<2.5	<2.5	<5.0	--	<2.5	--	--	--	--	<1200	--	--	
	6/23/2009	7.14	4.80	NP	2.34	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<250	--	--	
	12/3/2009	7.14	5.31	NP	1.83	<50	<0.50	<0.50	<0.50	<1.5	--	<0.50	<0.50	<0.50	<0.50	<5.0	<250	<1.0	<1.0	
	6/28/2010	7.14	4.77	NP	2.37	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	6/30/2010	7.14	4.97	NP	2.17	<50.0	<0.50	<0.50	<0.50	<1.5	--	<0.50	<0.50	<0.50	<0.50	11.4	<250	<1.0	<1.0	
12/20/2010	7.14	4.59	NP	2.55	<50.0	<0.50	<0.50	<0.50	<1.5	--	<0.50	<0.50	<0.50	<0.50	<5.0	<250	<1.0	<1.0		
6/3/2011	7.14	5.26	NP	1.88	<50.0	<0.50	<0.50	<0.50	<1.5	--	<0.50	<0.50	<0.50	<0.50	<5.0	<250	<1.0	<1.0		
12/5/2011	12.88	5.35	NP	7.53	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
6/6/2012	12.88	7.03	NP	5.85	<50.0	<0.50	<0.50	<0.50	<1.5	--	0.79	<0.50	<0.50	<0.50	9.2	<250	<1.0	<1.0		
12/19/2012	12.88	7.71	NP	5.17	<50.0	<0.50	<0.50	<0.50	<0.50	--	1.5	<0.50	<0.50	<0.50	42	<5.0	<0.50	<0.50		
3/13/2013	12.88	7.90	NP	4.98	<50.0	--	--	--	--	--	--	--	--	--	--	--	--	--		
9/13/2013	12.88	7.67	NP	5.21	<50	<0.50	<0.50	<0.50	<0.50	--	2.8	<0.50	<0.50	<0.50	37	<5.0	<0.50	<0.50		
3/13/2014	12.88	7.93	NP	4.95	<50	<0.50	<0.50	<0.50	<0.50	--	1.9	<0.50	<0.50	<0.50	66	<5.0	<0.50	<0.50		
9/11/2014	12.88	7.39	NP	5.49	<50	<0.50	<0.50	<0.50	<0.50	--	3.9	<0.50	<0.50	<0.50	140	<5.0	<0.50	<0.50		
3/12/2015	12.88	7.76	NP	5.12	<50	<0.50	<0.50	<0.50	<1.0	--	2.3	<0.50	<0.50	<0.50	179	<5.0	<0.50	<0.50		

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)
 WI - Well Inaccessible
 DRY - Well is dry
 -- - No information available

Analytical Notes:
 < - Below Laboratory's indicated reporting limit
 DRY - Well was Dry; sample could not be taken
 LPH - Liquid Phase Hydrocarbons
 ND - Not detected, and detection limit is not known
 ug/L - micrograms/liter
 WI - Well Inaccessible
 TPHg- Total petroleum hydrocarbons as gasoline
 MTBE- Methyl tertiary-butyl ether

DIPE- Di-isopropyl ether
 ETBE- Ethyl tertiary-butyl ether
 TAME- Tertiary-amyl methyl ether
 TBA- Tertiary-butyl alcohol
Bold - Above the laboratory's indicated reporting limit

TABLE 3a
 ADDITIONAL HISTORICAL GROUNDWATER ANALYTICAL DATA
 76 SERVICE STATION NO. 5325
 3220 LAKESHORE AVENUE
 OAKLAND, CALIFORNIA



Well I.D.	Date	GROUNDWATER ANALYTICAL DATA																		
		Acetone (ug/L)	Alkalinity, Total as CaCO3 (ug/L)	Antimony SW6010 D (ug/L)	Antimony SW6010 T (ug/L)	Arsenic SW6010 D (ug/L)	Arsenic SW6010 T (ug/L)	Barium SW6010 D (ug/L)	Barium SW6010 T (ug/L)	Beryllium SW6010 D (ug/L)	Beryllium SW6010 T (ug/L)	Biochemical Oxygen Demand (ug/L)	Bromate (mg/L)	Bromide (mg/L)	Cadmium SW6010 D (ug/L)	Cadmium SW6010 T (ug/L)	Chemical Oxygen Demand (ug/L)	Chloride (ug/L)	Chromium E200.7 T (ug/L)	Chromium, Hexavalent (ug/L)
U-1	6/30/2010	<5.0	--	--	<60.0	--	52.5	--	293	--	<5.0	23,400	--	--	--	<5.0	113,000	43,800	--	--
	12/20/2010	<5.0	371,000	<60.0	--	32.5	--	237	--	<5.0	--	16,700	--	--	<5.0	--	41,000	46,000	--	--
	6/3/2011	<5.0	--	<60.0	--	44.0	--	224	--	<5.0	--	19,600	<0.005	0.6	<5.0	--	40,400	40,700	<5	<0.2
U-2	6/30/2010	29.5	--	--	<60.0	--	100	--	264	--	<5.0	12,300	--	--	--	<5.0	62,100	74,000	--	--
	12/20/2010	13.5	754,000	<60.0	--	46.4	--	209	--	<5.0	--	17,300	--	--	<5.0	--	65,500	61,400	--	--
	6/3/2011	<5.0	--	<60.0	--	64.4	--	190	--	<5.0	--	<2000	<0.005	1.2	<5.0	--	65,600	57,700	<5	<0.2
U-3	12/20/2010	--	312,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
U-4	6/30/2010	<5.0	--	--	<60.0	--	<10.0	--	<100	--	<5.0	<2000	--	--	--	<5.0	<5000	41,100	--	--
	12/20/2010	<5.0	352,000	<60.0	--	<20.0	--	<100	--	<5.0	--	<2000	--	--	<5.0	--	9,090	43,500	--	--
	6/3/2011	<5.0	--	<60.0	--	<20.0	--	<100	--	<5.0	--	11,500	<0.005	0.64	<5.0	--	9,530	40,600	<5	1.5
U-5	12/20/2010	--	319,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
U-6	12/20/2010	--	87,800	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Analytical Notes:

- < - Below Laboratory's indicated reporting limit
- DRY - Well was Dry; sample could not be taken
- LPH - Liquid Phase Hydrocarbons
- mg/L - milligrams per liter
- ug/L - micrograms/liter
- Bold** - Above the laboratory's indicated reporting limit

TABLE 3b
ADDITIONAL HISTORICAL GROUNDWATER ANALYTICAL DATA
76 SERVICE STATION NO. 5325
3220 LAKESHORE AVENUE
OAKLAND, CALIFORNIA



Well I.D.	Date	GROUNDWATER ANALYTICAL DATA																			
		Cobalt SW6010 D (ug/L)	Cobalt SW6010 T (ug/L)	Coliform, Total (MPN/100ML)	E. Coli (MPN/100ML)	Inorganic Carbon (mg/L)	Iron SW6010 T (ug/L)	Iron, Ferric (ug/L)	Iron, Ferrous A3500D (ug/L)	Lead SW6010 D (ug/L)	Lead SW6010 T (ug/L)	Manganese SW6010 D (ug/L)	Manganese SW6010 T (ug/L)	Mercury SW7470A D (ug/L)	Mercury SW7470A T (ug/L)	Methane (ug/L)	Molybdenum SW6010 D (ug/L)	Molybdenum SW6010 T (ug/L)	Nickel SW6010 D (ug/L)	Nickel SW6010 T (ug/L)	Nitrate as N (ug/L)
U-6	9/21/2006	--	--	--	--	--	--	--	2,900	--	--	--	--	--	--	--	--	--	--	--	190
	12/21/2006	--	--	--	--	--	--	--	11,000	--	--	--	--	--	--	--	--	--	--	--	360
	3/28/2007	--	--	--	--	--	--	--	<100	--	--	--	--	--	--	--	--	--	--	--	550
	6/27/2007	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI
	9/26/2007	--	--	--	--	--	--	--	<100	--	--	--	--	--	--	--	--	--	--	--	410
	12/27/2007	--	--	--	--	--	--	--	7,700	--	--	--	--	--	--	--	--	--	--	--	<100
	3/26/2008	--	--	--	--	--	--	--	19,000	--	--	--	--	--	--	--	--	--	--	--	<100
	6/18/2008	--	--	--	--	--	--	--	2,100,000	--	--	--	--	--	--	--	--	--	--	--	<100
	9/24/2008	--	--	--	--	--	--	--	220,000	--	--	--	--	--	--	--	--	--	--	--	<100
	12/22/2008	--	--	--	--	--	--	--	290,000	--	--	--	--	--	--	--	--	--	--	--	<100
	3/26/2009	--	--	--	--	--	--	--	540,000	--	--	--	--	--	--	--	--	--	--	--	<100
	6/30/2010	--	--	--	--	--	--	566,000	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/20/2010	--	--	--	--	--	--	28,500	--	--	--	--	--	--	--	--	--	--	--	--	486

Analytical Notes:
 < - Below Laboratory's indicated reporting limit
 DRY - Well was Dry; sample could not be taken
 LPH - Liquid Phase Hydrocarbons
 mg/L - milligrams per liter
 MPN/100ML - most probable number per 100 ml
 ND - Not detected, and detection limit is not known
 ug/L - micrograms/liter
 WI - Well Inaccessible
Bold - Above the laboratory's indicated reporting limit

TABLE 3c
 ADDITIONAL HISTORICAL GROUNDWATER ANALYTICAL DATA
 76 SERVICE STATION NO. 5325
 3220 LAKESHORE AVENUE
 OAKLAND, CALIFORNIA



Well I.D.	Date	GROUND WATER ANALYTICAL DATA																			
		Nitrite as N (ug/L)	Nitrogen (ug/L)	Nitrogen, Ammonia (mg/L)	Nitrogen, NO2 plus NO3 (ug/L)	Nitrogen, Total Kjeldahl (mg/L)	Oxidation Reduction Potential FIELD_PostPurge (MILLIVOLTS)	Oxidation Reduction Potential FIELD_PrePurge (MILLIVOLTS)	Phosphate (mg/L)	Phosphate, Ortho (mg/L)	Selenium SW6010 D (ug/L)	Selenium SW6010 T (ug/L)	Silver SW6010 D (ug/L)	Silver SW6010 T (ug/L)	Sulfate (ug/L)	Thallium SW6010 D (ug/L)	Thallium SW6010 T (ug/L)	Vanadium SW6010 D (ug/L)	Vanadium SW6010 T (ug/L)	Zinc SW6010 D (ug/L)	Zinc SW6010 T (ug/L)
U-6	9/26/2007	--	--	--	--	--	--	--	--	0.34	--	--	--	--	--	--	--	--	--	--	--
	12/27/2007	--	--	--	--	--	--	--	--	1.0	--	--	--	--	--	--	--	--	--	--	--
	3/26/2008	--	--	--	--	--	--	--	--	1.2	--	--	--	--	--	--	--	--	--	--	--
	6/18/2008	--	--	--	--	--	--	--	--	0.076	--	--	--	--	--	--	--	--	--	--	--
	9/24/2008	--	--	--	--	--	--	--	--	0.28	--	--	--	--	--	--	--	--	--	--	--
	12/22/2008	--	--	--	--	--	--	--	--	0.39	--	--	--	--	--	--	--	--	--	--	--
	3/26/2009	--	--	--	--	--	--	--	--	0.28	--	--	--	--	--	--	--	--	--	--	--
	6/30/2010	44.3	--	--	308	--	--	--	--	--	--	--	--	--	10,100	--	--	--	--	--	--
	12/20/2010	33.4	--	--	520	--	--	--	--	--	--	--	--	--	12,400	--	--	--	--	--	--

Analytical Notes:
 < - Below Laboratory's indicated reporting limit
 DRY - Well was Dry; sample could not be taken
 LPH - Liquid Phase Hydrocarbons
 mg/L - milligrams per liter
 MILLIVOLTS - millivolts
 ND - Not detected, and detection limit is not known
 ug/L - micrograms/liter
 WI - Well Inaccessible
Bold - Above the laboratory's indicated reporting limit

TABLE 4
Historical Groundwater Gradient and Flow Directions

76 Service Station No. 5325
 3220 Lakeshore Avenue
 Oakland, CA

Site	Monitoring Date	Groundwater Gradient (feet per foot)	Groundwater Flow Direction																
			N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	
5325	12/29/2005	0.0400	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
	3/27/2006	0.0250	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
	6/12/2006	0.0100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
	9/21/2006	Varies	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12/21/2006	Varies	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3/28/2007	0.0100	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
	6/27/2007	0.0300	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	9/26/2007	0.0200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
	12/27/2007	0.0200	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	3/6/2008	0.0300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
	6/18/2008	Varies	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	9/24/2008	Varies	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12/22/2008	Varies	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3/26/2009	Varies	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6/23/2009	Varies	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12/3/2009	Varies	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6/28/2009	Varies	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6/28/2010	Varies	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12/20/2010	Varies	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6/3/2011	Varies	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/5/2012	Varies	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
6/6/2012	Varies	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12/19/2012	Varies	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3/13/2013	Varies	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9/13/2013	Varies	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3/13/2014	Varies	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9/11/2014	0.0150	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	
3/12/2015	Varies	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0.024 Average	3	1	0	0	0	0	1	2	3	5	3	1	2	2	26	4	

Explanation

NA = Not available

Number of Events = 82

Semi-Annual Summary Report – October 2014 through March 2015
76 Service Station No. 5325
Oakland, CA
Antea Group Project No. I40255325



Attachment A

Summary of Previous Environmental Investigations

SUMMARY OF PREVIOUS ENVIRONMENTAL INVESTIGATIONS

May 1990 Three exploratory soil borings were advanced adjacent to the UST complex to depths ranging from 10 to 12.5 feet below ground surface (bgs). Soil samples were analyzed for total petroleum hydrocarbons as gasoline (TPH-G) and benzene, toluene, ethylbenzene, and xylenes (BTEX). The samples contained TPH-G concentrations ranging from 2 to 7,500 parts per million (ppm) and benzene concentrations ranging from 0.14 to 13 ppm.

June 1990 Two 10,000-gallon gasoline USTs, one 550-gallon waste oil UST, and related product dispensers were replaced. Soil samples from the UST excavation sidewalls and bottom and product line trenches were reported to contain TPH-G and benzene at concentrations ranging from 12 to 2,800 ppm and 0.008 to 11 ppm, respectively. Approximately 250 cubic yards of soil and backfill material were aerated onsite to reduce concentrations to below 100 ppm TPH-G, then transported to an appropriate soil disposal facility. Groundwater was encountered at approximately 7.5 feet bgs.

September 1990 Monitoring wells U-1, U-2, and U-3 were installed. TPH-G was detected in soil samples collected from the capillary fringe in well borings U-1 and U-2 at levels of 110 and 480 ppm, respectively. Benzene was detected in the soil sample from well boring U-1 at a level of 4.5 ppm. Petroleum hydrocarbons were not detected in soil or groundwater samples from U-3. Groundwater samples collected from wells U-1 and U-2 were reported to contain 690 and 38 parts per billion (ppb) TPH-G and 780 and 27 ppb benzene, respectively.

June 1990 Monitoring wells U-4, U-5, and U-6 were installed. TPH-G and benzene were detected in the capillary fringe soil sample collected from boring U-5 at levels of 400 ppm and 1.9 ppm, respectively. TPH-G and benzene were not detected in soil samples collected from borings U-4 and U-6. Groundwater levels stabilized at depths between 8.8 and 9.2 feet bgs.

November 1996 One 550-gallon waste oil UST was removed and the product lines and dispensers were replaced. A soil sample collected from the sidewall of the waste oil UST excavation contained 1.5 ppm total petroleum hydrocarbons as diesel (TPH-D) and 78 ppm total oil and grease (TOG). TPH-G, benzene, methyl tertiary butyl ether (MTBE), halogenated volatile organic compounds (HVOCs), and semi-volatile organic compounds (SVOCs) were not detected. Product line trench excavation and over excavation samples were reported to contain petroleum hydrocarbon levels ranging from non-detect to 880 ppm of TPH-G, non-detect to 3.6 ppm of benzene, and non-detect to 23 ppm of MTBE. Approximately 276 tons of excavated soil was transported to an appropriate disposal facility.

June 1997 Two exploratory borings (U-D and U-E) and one UST observation well were installed. U-D was advanced offsite on Lakeshore Avenue. TPH-G, BTEX, and MTBE were detected in one or all of the soil samples collected at the capillary fringe from the soil borings. TPH-G and MTBE were detected at a maximum of 450 ppm and 1.1 ppm, respectively, in U-D.

October 2003 Site environmental consulting responsibilities were transferred to TRC.



April 2006 Three ozone sparge wells (C-1 through C-3) were installed by TRC in the vicinity of U-2 for the purpose of an ozone pilot study. Total purgeable petroleum hydrocarbons (TPPH) were detected at a maximum of 4,600 milligrams per kilograms (mg/kg) in the five feet below grade (fbg) soil sample collected from C-1.

June through August 2006 A 3-month ozone sparge event was completed on sparge points C-1 through C-3 located in the vicinity of Site well U-2 using a mobile ozone sparge treatment system.

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

January 2011 Delta Consultants rebranded to Antea Group.

REMEDIATION

June through August 2006 A 3-month ozone sparge event was completed on sparge points C-1 through C-3 located in the vicinity of Site well U-2 using a mobile ozone sparge treatment system.

SENSITIVE RECEPTORS SURVEY

Lake Merritt is located approximately 0.3 miles down gradient. No domestic water wells are located within a one mile distance of the site.

Current Consultant: Antea Group

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Oakland, CA
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Attachment B

Antea Group's Groundwater Sampling Procedures

FIELD METHODS AND PROCEDURES

The following section describes field procedures that are to be used by Antea Group personnel in the performance of the tasks involved with this project.

1.0 HEALTH AND SAFETY PLAN

Fieldwork performed by Antea Group and Antea Group's subcontractors at the site will be conducted according to guidelines established in a Site Health and Safety Plan (SHSP). The SHSP is a document that describes the hazards that may be encountered in the field and specifies protective equipment, work procedures and emergency information. A copy of the SHSP will be at the site and available for reference by appropriate parties during work at the site.

2.0 GROUNDWATER DEPTH ASSESSMENT

A water/product interface probe is used to assess the liquid-phase hydrocarbons (LPH) thickness, if present, and a water level indicator is used to measure the groundwater depth in monitoring wells that do not contain LPH. Depth to groundwater or LPH is measured from a datum point at the top of each monitoring well casing. The datum point is typically a notch cut in the north side of the casing edge. If a water level indicator is used, the tip is subjectively analyzed for LPH sheen.

3.0 SUBJECTIVE ANALYSIS OF GROUNDWATER

Prior to purging, a water sample is collected from the monitoring well for subjective assessment. The sample is retrieved by gently lowering a clean, disposable bailer to approximately one-half the bailer length past the air/liquid interface. The bailer is then retrieved and the sample contained within the bailer is examined for floating LPH and the appearance of a LPH sheen.

4.0 MONITORING WELL SAMPLING

Monitoring wells are purged using a pump or bailer until pH, temperature and conductivity of the purge water has stabilized and a minimum of three well volumes of water has been removed. The purge water is placed in 55-gallon drums and temporarily stored onsite pending evaluation of disposal options. If three well volumes cannot be removed in one-half an hour's time, the well is allowed to recharge to 80 percent of original level. After recharging, a groundwater sample is then removed from each of the wells using a pump or disposable bailer. The water sample is collected, labeled and handled according to the Quality Assurance Plan. Water generated during the monitoring event is disposed of according to the accepted regulatory method pertaining to the site.

5.0 QUALITY ASSURANCE PLAN

This section describes the field and analytical procedures to be followed by Antea Group throughout the investigation.

5.1 General Sample Collection and Handling Procedures

Proper collection and handling are essential to ensure the quality of a sample. Each sample will be collected in the appropriate container, preserved correctly for the intended analysis and stored, prior to analysis, for no longer than the maximum allowable holding time. Details on the procedures for collection and handling of soil samples from this project can be found in previous sections.

5.2 Sample Identification and Chain-of-Custody Procedures

Sample identification and chain-of-custody procedures ensure sample integrity and document sample possession from the time of collection to its ultimate disposal. Each sample container submitted for analysis will have a label affixed to identify the job number, sampler, date and time of sample collection and a sample number unique to that sample. During soil sampling, this information, in addition to a description of the sample, field measurements made, sampling methodology, names of on-site personnel and any other pertinent field observations will be recorded on the borehole log or in the field records.

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Attachment C

Antea Group's Groundwater Sampling Field Data Sheets

Well-Head Inspection & Well Gauging Form

Antea Group Project No: I40255325

Site Address: 3200 Lakeshore Ave, Oakland, CA 94610

Field Technician: Jon Fillingame, Antea Group
(Print Full Name & Company*)

Date: 3/12/15 Weather: _____

Well Condition														
Sample Order	Field Point	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
1	U-4	X	X	X	X	X	X	4"	11:00	8.78	19.33	-	-	
2	U-3	X		X	X	X		3"	11:10	10.57	19.35	-	-	
3	U-6	X	X	X	X	X		2"	11:18	7.76	23.68	-	-	
4	U-5	X	X	X	X	X		4"	11:25	7.42	20.02	-	-	
5	U-2	X		X	X	X	X	3"	11:32	7.49	19.78	-	-	
6	U-1	X	X	X	X	X	X	3"	11:40	9.03	13.22	-	-	

Notes: One new drum (currently 3 total) NE side of station building

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



*Form provided by Antea Group

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

Groundwater Sampling Form

Site Address: 3200 Lakeshore Ave, Oakland, CA 94610	
Project No: I40255325	Field Technician: Jon Fillingame
Field Point: U-4	Date: 3/12/15
Depth to Water (DTW) (ft bgs): 8.78	Well Diameter (in): 2 (4) 6 8
Depth to LNAPL (ft bgs):	Thickness of LNAPL (ft):
Total Depth of Well (ft bgs): 19.33	Water Column Height (ft): 10.55

Purging Info and Calculations:

Purge Method: Low-Flow -3 casing volumes Other: _____	Purge Equipment: Disposable Bailer -Electric Submersible Peristaltic Pump Bladder Pump Other: _____	Sample Collection Method: -Disposable Bailer Extraction Port Dedicated Tubing Disposable Tubing Other: _____
Water Column Height (ft): 10.55 X Conversion Factor (gal/ft): 0.66 = Casing Volume (gal): 6.96 Casing Volume (gal): 6.96 X Specified Volumes: 3 = Calculated Purge (gal): 20.89		
Conversion Factors (gal/ft): 2" = 0.17 4" = 0.66 6" = 1.5 8" = 2.6 Other = radius ² * 0.163		

Purge:	Start Time:	Stop Time:							
	Time	Temp (°C)	pH	Conductivity (µS/cm)	ORP (mV)	Turbidity (NTU)	D.O. (mg/L)	Volume Purged (gal)	Water Level (for Low-Flow only)
Pre-Purge									
	13:00	22.07	6.21	1233	-73.1	17.7	3.51	0.5	
	13:03	20.97	6.26	1229	-76.8	0.92	2.97	7.0	
	13:07	20.96	6.27	1235	-72.5	0.89	3.56	14.0	
								20.9	
Post-Purge									
Did Well dewater? (Yes) No		Total Purge volume (gal): 14.5							

Other Comments: _____

Sample Info:	
Sample ID: U-4-20150331	Sample Date and Time: 3/12/15 13:25
Selected Analysis: _____	

This form was provided by Antea Group and completed by: (Print Full Name) _____

Signature: Jonathan Fillingame Date: 3/12/15



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: 3200 Lakeshore Ave, Oakland, CA 94610	
Project No: I40255325	Field Technician: Jon Fillingame
Field Point: U-3	Date: 3/12/15
Depth to Water (DTW) (ft bgs): 10.57	Well Diameter (in): 2 4 6 8 (3)
Depth to LNAPL (ft bgs):	Thickness of LNAPL (ft):
Total Depth of Well (ft bgs): 19.35	Water Column Height (ft): 8.78

Purging Info and Calculations:

Purge Method: Low-Flow -3 casing volumes Other: _____	Purge Equipment: Disposable Bailer - Electric Submersible Peristaltic Pump Bladder Pump Other: _____	Sample Collection Method: - Disposable Bailer Extraction Port Dedicated Tubing Disposable Tubing Other: _____
Water Column Height (ft): <u>8.78</u> X Conversion Factor (gal/ft): <u>0.37</u> = Casing Volume (gal): <u>3.25</u> Casing Volume (gal): <u>3.25</u> X Specified Volumes: <u>3</u> = Calculated Purge (gal): <u>9.75</u>		
Conversion Factors (gal/ft): 2" = 0.17 4" = 0.66 6" = 1.5 8" = 2.6 Other = radius ² * 0.163		

Purge:	Start Time:	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								
	13:51	21.24	6.83	1884	-83.2	333	2.55	0.5	
	13:53	19.16	6.69	1355	-99.7	24.8	2.21	3.3	
								6.5	
								9.8	
	Post-Purge								
Did Well dewater? <input checked="" type="checkbox"/> Yes No		Total Purge volume (gal): <u>4.2</u>							

Other Comments: _____

Sample Info:

Sample ID: U-3-20150331	Sample Date and Time: 14:10 3/12/15
Selected Analysis:	

This form was provided by Antea Group and completed by: _____

Signature: Jonathan Fillingame Date: 3/12/15



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: 3200 Lakeshore Ave, Oakland, CA 94610	
Project No: I40255325	Field Technician: Jon Fillingame
Field Point: U-6	Date: 3/12/15
Depth to Water (DTW) (ft bgs): 7.76	Well Diameter (in): <u>2</u> 4 6 8
Depth to LNAPL (ft bgs):	Thickness of LNAPL (ft):
Total Depth of Well (ft bgs): 23.68	Water Column Height (ft): 15.92

Purging Info and Calculations:

Purge Method: Low-Flow -3 casing volumes Other: _____	Purge Equipment: Disposable Bailer -Electric Submersible Peristaltic Pump Bladder Pump Other: _____	Sample Collection Method: -Disposable Bailer Extraction Port Dedicated Tubing Disposable Tubing Other: _____
Water Column Height (ft): <u>15.92</u> X Conversion Factor (gal/ft): <u>0.17</u> = Casing Volume (gal): <u>2.71</u> Casing Volume (gal): <u>2.71</u> X Specified Volumes: <u>3</u> = Calculated Purge (gal): <u>8.12</u>		
Conversion Factors (gal/ft): 2" = 0.17 4" = 0.66 6" = 1.5 8" = 2.6 Other = radius ² * 0.163		

Purge:	Start Time:	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											
			14:24	19.99	5.98	1930	-179.7	139	3.11	0.5	
			14:26	18.78	5.59	1932	-176.1	401	2.36	2.7	
			14:27	18.95	5.33	1920	-162.2	509	2.66	5.4	
										8.1	
Post-Purge											
Did Well dewater? <input checked="" type="radio"/> Yes <input type="radio"/> No			Total Purge volume (gal): <u>6.0</u>								

Other Comments: _____

Sample Info:	
Sample ID: U-6-20150331	Sample Date and Time: 3/12/15 14:40
Selected Analysis: _____	

This form was provided by Antea Group and completed by: (Print Full Name) _____

Signature: Jonathan Fillingame Date: 3/12/15

Groundwater Sampling Form

Site Address: 3200 Lakeshore Ave, Oakland, CA 94610	
Project No: I40255325	Field Technician: Jon Fillingame
Field Point: U-5	Date: 3/12/15
Depth to Water (DTW) (ft bgs): 7.42	Well Diameter (in): 2 ④ 6 8
Depth to LNAPL (ft bgs):	Thickness of LNAPL (ft):
Total Depth of Well (ft bgs): 20.02	Water Column Height (ft): 12.60

Purging Info and Calculations:

Purge Method: Low-Flow <input checked="" type="checkbox"/> 3 casing volumes Other: _____	Purge Equipment: Disposable Bailer <input checked="" type="checkbox"/> Electric Submersible Peristaltic Pump Bladder Pump Other: _____	Sample Collection Method: <input checked="" type="checkbox"/> Disposable Bailer Extraction Port Dedicated Tubing Disposable Tubing Other: _____
Water Column Height (ft): 12.60 X Conversion Factor (gal/ft): 0.66 = Casing Volume (gal): 8.32 Casing Volume (gal): 8.32 X Specified Volumes: 3 = Calculated Purge (gal): 24.9		
Conversion Factors (gal/ft): 2" = 0.17 4" = 0.66 6" = 1.5 8" = 2.6 Other = radius ² * 0.163		

Purge:	Start Time:	Stop Time:	Time	Temp (°C)	pH	Conductivity (µS/cm)	ORP (mV)	Turbidity (NTU)	D.O. (mg/L)	Volume Purged (gal)	Water Level (for Low-Flow only)
Pre-Purge											
			14:53	20.03	5.50	4329	-149.9	13.3	3.89	0.5	
			14:57	19.53	5.62	4385	-158.8	3.54	2.06	8.3	
			15:01							16.6	
										25.0	
Post-Purge											
Did Well dewater?				Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Total Purge volume (gal): 15.5					

Other Comments: _____

Sample Info:	
Sample ID: U-5-20/50331	Sample Date and Time: 3/12/15 15:15
Selected Analysis: _____	

This form was provided by Antea Group and completed by: (Print Full Name) _____

Signature: Jonathan Fillingame Date: 3/12/15



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: 3200 Lakeshore Ave, Oakland, CA 94610	
Project No: I40255325	Field Technician: Jon Fillingame
Field Point: U-2	Date: 3/12/15
Depth to Water (DTW) (ft bgs): 2.49	Well Diameter (in): 2 4 6 8 (3)
Depth to LNAPL (ft bgs):	Thickness of LNAPL (ft):
Total Depth of Well (ft bgs): 19.78	Water Column Height (ft): 12.29

Purging Info and Calculations:

Purge Method: Low-Flow - 3 casing volumes Other: _____	Purge Equipment: Disposable Bailer - Electric Submersible Peristaltic Pump Bladder Pump Other: _____	Sample Collection Method: - Disposable Bailer Extraction Port Dedicated Tubing Disposable Tubing Other: _____
Water Column Height (ft): 12.29 X Conversion Factor (gal/ft): 0.37 = Casing Volume (gal): 4.55 Casing Volume (gal): 4.55 X Specified Volumes: 3 = Calculated Purge (gal): 13.65		
Conversion Factors (gal/ft): 2" = 0.17 4" = 0.66 6" = 1.5 8" = 2.6 Other = radius ² * 0.163		

Purge: **Start Time:** _____ **Stop Time:** _____

Time	Temp (°C)	pH	Conductivity (µS/cm)	ORP (mV)	Turbidity (NTU)	D.O. (mg/L)	Volume Purged (gal)	Water Level (for Low-Flow only)
Pre-Purge								
15:46	21.54	6.15	4209	-152.6	405	3.14	0.5	
15:48	20.10	6.01	2926	-147.6	2.79	2.44	4.6	
							9.1	
							13.7	
Post-Purge								

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

Other Comments: _____

Sample Info:

Sample ID: U-2	Sample Date and Time: 3/12/15 16:00
Selected Analysis: _____	

This form was provided by Antea Group and completed by: (Print Full Name) _____

Signature: Jonathan Fillingame Date: 3/12/15



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

Groundwater Sampling Form

Site Address: 3200 Lakeshore Ave, Oakland, CA 94610	
Project No: I40255325	Field Technician: Jon Fillingame
Field Point: U-1	Date: 3/12/15
Depth to Water (DTW) (ft bgs): 9.03	Well Diameter (in): 2 4 6 8 (3)
Depth to LNAPL (ft bgs):	Thickness of LNAPL (ft):
Total Depth of Well (ft bgs): 13.22	Water Column Height (ft): 4.19

Purging Info and Calculations:

Purge Method: Low-Flow → 3 casing volumes Other: _____	Purge Equipment: Disposable Bailer Electric Submersible Peristaltic Pump Bladder Pump Other: _____	Sample Collection Method: Disposable Bailer Extraction Port Dedicated Tubing Disposable Tubing Other: _____
Water Column Height (ft): <u>4.19</u> X Conversion Factor (gal/ft): 10.37 = Casing Volume (gal): <u>1.55</u> Casing Volume (gal): <u>1.55</u> X Specified Volumes: <u>3</u> = Calculated Purge (gal): <u>4.65</u>		
Conversion Factors (gal/ft): 2" = 0.17 4" = 0.66 6" = 1.5 8" = 2.6 Other = radius ² * 0.163		

Purge:		Start Time:		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								
16:11	19.75	6.38	1473	-177.3	9.3.1	4.29	0.5	
16:12	19.51	8.5.89	1482	-160.0	11.0	3.48	1.6	
16:13	19.47	5.58	1427	-156.6	8.50	2.66	3.1	
							4.7	
Post-Purge								
Did Well dewater? (Yes) No		Total Purge volume (gal): <u>3.5</u>						

Other Comments: _____

Sample Info:

Sample ID: U-1-20150331	Sample Date and Time: 3/12/15 16:35
Selected Analysis: _____	

This form was provided by Antea Group and completed by: (Print Full Name) _____

Signature: Jonathan Fillingame Date: 3/12/15

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76 Service Station No. 5325
Oakland, CA
Antea Group Project No. I40255325



Attachment D

Certified Laboratory Analytical Report and Data Validation Form

April 09, 2015

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

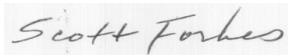
RE: Project: 255325 1Q15 GW Event
Pace Project No.: 1244482

Dear Dennis Dettloff:

Enclosed are the analytical results for sample(s) received by the laboratory on March 13, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Scott M Forbes
scott.forbes@pacelabs.com
Project Manager

Enclosures

cc: Sandy Hayes, Antea Group
Jerilyn Thao, The Antea Group



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 255325 1Q15 GW Event
Pace Project No.: 1244482

Davis Certification IDs

2795 Second Street Suite 300 Davis, CA 95618
North Dakota Certification #: R-214
Oregon Certification #: CA300002

Washington Certification #: C926-14a
California Certification #: 08263CA

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SAMPLE SUMMARY

Project: 255325 1Q15 GW Event

Pace Project No.: 1244482

Lab ID	Sample ID	Matrix	Date Collected	Date Received
1244482001	U-1_20150331	Water	03/12/15 16:30	03/13/15 00:00
1244482002	U-2_20150331	Water	03/12/15 16:00	03/13/15 00:00
1244482003	U-3_20150331	Water	03/12/15 14:10	03/13/15 00:00
1244482004	U-4_20150331	Water	03/12/15 13:25	03/13/15 00:00
1244482005	U-5_20150331	Water	03/12/15 15:15	03/13/15 00:00
1244482006	U-6_20150331	Water	03/12/15 14:40	03/13/15 00:00

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SAMPLE ANALYTE COUNT

Project: 255325 1Q15 GW Event
Pace Project No.: 1244482

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
1244482001	U-1_20150331	EPA 8260B	GAC	2	PASI-DAV
		EPA 8260B	JCP	15	PASI-DAV
1244482002	U-2_20150331	EPA 8260B	GAC	2	PASI-DAV
		EPA 8260B	JCP	15	PASI-DAV
1244482003	U-3_20150331	EPA 8260B	GAC	2	PASI-DAV
		EPA 8260B	JCP	15	PASI-DAV
1244482004	U-4_20150331	EPA 8260B	GAC	2	PASI-DAV
		EPA 8260B	JCP	15	PASI-DAV
1244482005	U-5_20150331	EPA 8260B	GAC	2	PASI-DAV
		EPA 8260B	JCP	15	PASI-DAV
1244482006	U-6_20150331	EPA 8260B	GAC	2	PASI-DAV
		EPA 8260B	JCP	15	PASI-DAV

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SUMMARY OF DETECTION

Project: 255325 1Q15 GW Event

Pace Project No.: 1244482

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
1244482001	U-1_20150331					
EPA 8260B	tert-Butyl Alcohol	976	ug/L	5.0	03/27/15 00:06	
EPA 8260B	Methyl-tert-butyl ether	3.8	ug/L	0.50	03/27/15 00:06	
EPA 8260B	TPH as Gas	1810	ug/L	50.0	03/27/15 00:06	
EPA 8260B	Xylene (Total)	2.4	ug/L	1.0	03/27/15 00:06	
1244482002	U-2_20150331					
EPA 8260B	tert-Butyl Alcohol	2520	ug/L	12.5	03/26/15 17:27	
EPA 8260B	Methyl-tert-butyl ether	45.5	ug/L	1.2	03/26/15 17:27	
EPA 8260B	TPH as Gas	219	ug/L	125	03/26/15 17:27	
1244482005	U-5_20150331					
EPA 8260B	tert-Butyl Alcohol	125	ug/L	5.0	03/26/15 23:10	
EPA 8260B	Methyl-tert-butyl ether	4.8	ug/L	0.50	03/26/15 23:10	
EPA 8260B	TPH as Gas	56.1	ug/L	50.0	03/26/15 23:10	
1244482006	U-6_20150331					
EPA 8260B	tert-Butyl Alcohol	179	ug/L	5.0	03/26/15 23:38	
EPA 8260B	Methyl-tert-butyl ether	2.3	ug/L	0.50	03/26/15 23:38	

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 255325 1Q15 GW Event

Pace Project No.: 1244482

Method: EPA 8260B

Description: 8260 MSV

Client: Antea Group

Date: April 09, 2015

General Information:

6 samples were analyzed for EPA 8260B. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Batch Comments:

The batch QC associated to methanol and ethanol was analyzed after a high matrix sample causing loss of methanol and ethanol. The data were accepted as all surrogates were within QC limits.

- QC Batch: DAVM / 1078

Analyte Comments:

QC Batch: DAVM/1078

1V: Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results may be biased low due to carryover from the preceding sample.

- U-1_20150331 (Lab ID: 1244482001)
 - Ethanol

2V: Analyte recovery in the laboratory control sample (LCS) was outside QC limits due to matrix carryover within the analytical system from the preceding sample analysis.

- LCS (Lab ID: 194599)
 - Ethanol

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PROJECT NARRATIVE

Project: 255325 1Q15 GW Event

Pace Project No.: 1244482

Method: EPA 8260B

Description: 8260 MSV

Client: Antea Group

Date: April 09, 2015

Analyte Comments:

QC Batch: DAVM/1078

3V: Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits due to matrix interferences.

- MS (Lab ID: 195299)
 - Ethanol
- MSD (Lab ID: 195300)
 - Ethanol
- U-1_20150331 (Lab ID: 1244482001)
 - Ethanol

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 255325 1Q15 GW Event

Pace Project No.: 1244482

Method: EPA 8260B

Description: 8260 MSV UST

Client: Antea Group

Date: April 09, 2015

General Information:

6 samples were analyzed for EPA 8260B. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 255325 1Q15 GW Event
Pace Project No.: 1244482

Sample: U-1_20150331		Lab ID: 1244482001		Collected: 03/12/15 16:30		Received: 03/13/15 00:00		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260 MSV		Analytical Method: EPA 8260B							
Ethanol	ND	ug/L	5.0	1		03/25/15 17:08	64-17-5	1V,3V	
Surrogates									
1,2-Dichloroethane-d4 (S)	85	%	70-130	1		03/25/15 17:08	17060-07-0		
8260 MSV UST		Analytical Method: EPA 8260B							
tert-Amylmethyl ether	ND	ug/L	0.50	1		03/27/15 00:06	994-05-8		
Benzene	ND	ug/L	0.50	1		03/27/15 00:06	71-43-2		
tert-Butyl Alcohol	976	ug/L	5.0	1		03/27/15 00:06	75-65-0		
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/27/15 00:06	106-93-4		
1,2-Dichloroethane	ND	ug/L	0.50	1		03/27/15 00:06	107-06-2		
Diisopropyl ether	ND	ug/L	0.50	1		03/27/15 00:06	108-20-3		
Ethylbenzene	ND	ug/L	0.50	1		03/27/15 00:06	100-41-4		
Ethyl-tert-butyl ether	ND	ug/L	0.50	1		03/27/15 00:06	637-92-3		
Methyl-tert-butyl ether	3.8	ug/L	0.50	1		03/27/15 00:06	1634-04-4		
Toluene	ND	ug/L	0.50	1		03/27/15 00:06	108-88-3		
TPH as Gas	1810	ug/L	50.0	1		03/27/15 00:06			
Xylene (Total)	2.4	ug/L	1.0	1		03/27/15 00:06	1330-20-7		
Surrogates									
1,2-Dichloroethane-d4 (S)	102	%	70-130	1		03/27/15 00:06	17060-07-0		
Toluene-d8 (S)	95	%	70-130	1		03/27/15 00:06	2037-26-5		
4-Bromofluorobenzene (S)	94	%	70-130	1		03/27/15 00:06	460-00-4		

Sample: U-2_20150331		Lab ID: 1244482002		Collected: 03/12/15 16:00		Received: 03/13/15 00:00		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260 MSV		Analytical Method: EPA 8260B							
Ethanol	ND	ug/L	12.5	2.5		03/25/15 23:49	64-17-5		
Surrogates									
1,2-Dichloroethane-d4 (S)	88	%	70-130	2.5		03/25/15 23:49	17060-07-0		
8260 MSV UST		Analytical Method: EPA 8260B							
tert-Amylmethyl ether	ND	ug/L	1.2	2.5		03/26/15 17:27	994-05-8		
Benzene	ND	ug/L	1.2	2.5		03/26/15 17:27	71-43-2		
tert-Butyl Alcohol	2520	ug/L	12.5	2.5		03/26/15 17:27	75-65-0		
1,2-Dibromoethane (EDB)	ND	ug/L	1.2	2.5		03/26/15 17:27	106-93-4		
1,2-Dichloroethane	ND	ug/L	1.2	2.5		03/26/15 17:27	107-06-2		
Diisopropyl ether	ND	ug/L	1.2	2.5		03/26/15 17:27	108-20-3		
Ethylbenzene	ND	ug/L	1.2	2.5		03/26/15 17:27	100-41-4		
Ethyl-tert-butyl ether	ND	ug/L	1.2	2.5		03/26/15 17:27	637-92-3		
Methyl-tert-butyl ether	45.5	ug/L	1.2	2.5		03/26/15 17:27	1634-04-4		
Toluene	ND	ug/L	1.2	2.5		03/26/15 17:27	108-88-3		
TPH as Gas	219	ug/L	125	2.5		03/26/15 17:27			
Xylene (Total)	ND	ug/L	2.5	2.5		03/26/15 17:27	1330-20-7		
Surrogates									
1,2-Dichloroethane-d4 (S)	102	%	70-130	2.5		03/26/15 17:27	17060-07-0		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 255325 1Q15 GW Event
Pace Project No.: 1244482

Sample: U-2_20150331		Lab ID: 1244482002	Collected: 03/12/15 16:00	Received: 03/13/15 00:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST		Analytical Method: EPA 8260B						
Surrogates								
Toluene-d8 (S)	96	%	70-130	2.5		03/26/15 17:27	2037-26-5	
4-Bromofluorobenzene (S)	90	%	70-130	2.5		03/26/15 17:27	460-00-4	

Sample: U-3_20150331		Lab ID: 1244482003	Collected: 03/12/15 14:10	Received: 03/13/15 00:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260B						
Ethanol	ND	ug/L	5.0	1		03/25/15 20:47	64-17-5	
Surrogates								
1,2-Dichloroethane-d4 (S)	88	%	70-130	1		03/25/15 20:47	17060-07-0	
8260 MSV UST		Analytical Method: EPA 8260B						
tert-Amylmethyl ether	ND	ug/L	0.50	1		03/26/15 22:14	994-05-8	
Benzene	ND	ug/L	0.50	1		03/26/15 22:14	71-43-2	
tert-Butyl Alcohol	ND	ug/L	5.0	1		03/26/15 22:14	75-65-0	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/26/15 22:14	106-93-4	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/26/15 22:14	107-06-2	
Diisopropyl ether	ND	ug/L	0.50	1		03/26/15 22:14	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/26/15 22:14	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	0.50	1		03/26/15 22:14	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/26/15 22:14	1634-04-4	
Toluene	ND	ug/L	0.50	1		03/26/15 22:14	108-88-3	
TPH as Gas	ND	ug/L	50.0	1		03/26/15 22:14		
Xylene (Total)	ND	ug/L	1.0	1		03/26/15 22:14	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	104	%	70-130	1		03/26/15 22:14	17060-07-0	
Toluene-d8 (S)	97	%	70-130	1		03/26/15 22:14	2037-26-5	
4-Bromofluorobenzene (S)	83	%	70-130	1		03/26/15 22:14	460-00-4	

Sample: U-4_20150331		Lab ID: 1244482004	Collected: 03/12/15 13:25	Received: 03/13/15 00:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260B						
Ethanol	ND	ug/L	5.0	1		03/25/15 21:23	64-17-5	
Surrogates								
1,2-Dichloroethane-d4 (S)	87	%	70-130	1		03/25/15 21:23	17060-07-0	
8260 MSV UST		Analytical Method: EPA 8260B						
tert-Amylmethyl ether	ND	ug/L	0.50	1		03/26/15 22:42	994-05-8	
Benzene	ND	ug/L	0.50	1		03/26/15 22:42	71-43-2	
tert-Butyl Alcohol	ND	ug/L	5.0	1		03/26/15 22:42	75-65-0	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/26/15 22:42	106-93-4	

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ANALYTICAL RESULTS

Project: 255325 1Q15 GW Event
Pace Project No.: 1244482

Sample: U-4_20150331		Lab ID: 1244482004		Collected: 03/12/15 13:25	Received: 03/13/15 00:00	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST		Analytical Method: EPA 8260B						
1,2-Dichloroethane	ND	ug/L	0.50	1		03/26/15 22:42	107-06-2	
Diisopropyl ether	ND	ug/L	0.50	1		03/26/15 22:42	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/26/15 22:42	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	0.50	1		03/26/15 22:42	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/26/15 22:42	1634-04-4	
Toluene	ND	ug/L	0.50	1		03/26/15 22:42	108-88-3	
TPH as Gas	ND	ug/L	50.0	1		03/26/15 22:42		
Xylene (Total)	ND	ug/L	1.0	1		03/26/15 22:42	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	101	%.	70-130	1		03/26/15 22:42	17060-07-0	
Toluene-d8 (S)	97	%.	70-130	1		03/26/15 22:42	2037-26-5	
4-Bromofluorobenzene (S)	82	%.	70-130	1		03/26/15 22:42	460-00-4	

Sample: U-5_20150331		Lab ID: 1244482005		Collected: 03/12/15 15:15	Received: 03/13/15 00:00	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260B						
Ethanol	ND	ug/L	5.0	1		03/25/15 22:00	64-17-5	
Surrogates								
1,2-Dichloroethane-d4 (S)	87	%.	70-130	1		03/25/15 22:00	17060-07-0	
8260 MSV UST		Analytical Method: EPA 8260B						
tert-Amylmethyl ether	ND	ug/L	0.50	1		03/26/15 23:10	994-05-8	
Benzene	ND	ug/L	0.50	1		03/26/15 23:10	71-43-2	
tert-Butyl Alcohol	125	ug/L	5.0	1		03/26/15 23:10	75-65-0	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/26/15 23:10	106-93-4	
1,2-Dichloroethane	ND	ug/L	0.50	1		03/26/15 23:10	107-06-2	
Diisopropyl ether	ND	ug/L	0.50	1		03/26/15 23:10	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		03/26/15 23:10	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	0.50	1		03/26/15 23:10	637-92-3	
Methyl-tert-butyl ether	4.8	ug/L	0.50	1		03/26/15 23:10	1634-04-4	
Toluene	ND	ug/L	0.50	1		03/26/15 23:10	108-88-3	
TPH as Gas	56.1	ug/L	50.0	1		03/26/15 23:10		
Xylene (Total)	ND	ug/L	1.0	1		03/26/15 23:10	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	100	%.	70-130	1		03/26/15 23:10	17060-07-0	
Toluene-d8 (S)	99	%.	70-130	1		03/26/15 23:10	2037-26-5	
4-Bromofluorobenzene (S)	84	%.	70-130	1		03/26/15 23:10	460-00-4	

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ANALYTICAL RESULTS

Project: 255325 1Q15 GW Event

Pace Project No.: 1244482

Sample: U-6_20150331		Lab ID: 1244482006		Collected: 03/12/15 14:40		Received: 03/13/15 00:00		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260 MSV		Analytical Method: EPA 8260B							
Ethanol	ND	ug/L	5.0	1		03/25/15 22:36	64-17-5		
Surrogates									
1,2-Dichloroethane-d4 (S)	86	%.	70-130	1		03/25/15 22:36	17060-07-0		
8260 MSV UST		Analytical Method: EPA 8260B							
tert-Amylmethyl ether	ND	ug/L	0.50	1		03/26/15 23:38	994-05-8		
Benzene	ND	ug/L	0.50	1		03/26/15 23:38	71-43-2		
tert-Butyl Alcohol	179	ug/L	5.0	1		03/26/15 23:38	75-65-0		
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		03/26/15 23:38	106-93-4		
1,2-Dichloroethane	ND	ug/L	0.50	1		03/26/15 23:38	107-06-2		
Diisopropyl ether	ND	ug/L	0.50	1		03/26/15 23:38	108-20-3		
Ethylbenzene	ND	ug/L	0.50	1		03/26/15 23:38	100-41-4		
Ethyl-tert-butyl ether	ND	ug/L	0.50	1		03/26/15 23:38	637-92-3		
Methyl-tert-butyl ether	2.3	ug/L	0.50	1		03/26/15 23:38	1634-04-4		
Toluene	ND	ug/L	0.50	1		03/26/15 23:38	108-88-3		
TPH as Gas	ND	ug/L	50.0	1		03/26/15 23:38			
Xylene (Total)	ND	ug/L	1.0	1		03/26/15 23:38	1330-20-7		
Surrogates									
1,2-Dichloroethane-d4 (S)	102	%.	70-130	1		03/26/15 23:38	17060-07-0		
Toluene-d8 (S)	95	%.	70-130	1		03/26/15 23:38	2037-26-5		
4-Bromofluorobenzene (S)	84	%.	70-130	1		03/26/15 23:38	460-00-4		

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QUALITY CONTROL DATA

Project: 255325 1Q15 GW Event

Pace Project No.: 1244482

QC Batch: DAVM/1078 Analysis Method: EPA 8260B
 QC Batch Method: EPA 8260B Analysis Description: 8260 MSV
 Associated Lab Samples: 1244482001, 1244482002, 1244482003, 1244482004, 1244482005, 1244482006

METHOD BLANK: 194598 Matrix: Water
 Associated Lab Samples: 1244482001, 1244482002, 1244482003, 1244482004, 1244482005, 1244482006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethanol	ug/L	ND	5.0	03/25/15 16:32	
1,2-Dichloroethane-d4 (S)	%.	81	70-130	03/25/15 16:32	

LABORATORY CONTROL SAMPLE: 194599

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Ethanol	ug/L	100	ND	0	70-130 2V	
1,2-Dichloroethane-d4 (S)	%.			127	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 195299 195300

Parameter	Units	1244482001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Ethanol	ug/L	ND	100	100	ND	ND	0	2	70-130		25	3V
1,2-Dichloroethane-d4 (S)	%.						83	83	70-130			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 255325 1Q15 GW Event
Pace Project No.: 1244482

QC Batch: DAVM/1094 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260 MSV UST-WATER
Associated Lab Samples: 1244482001, 1244482002, 1244482003, 1244482004, 1244482005, 1244482006

METHOD BLANK: 195612 Matrix: Water
Associated Lab Samples: 1244482001, 1244482002, 1244482003, 1244482004, 1244482005, 1244482006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	03/26/15 16:59	
1,2-Dichloroethane	ug/L	ND	0.50	03/26/15 16:59	
Benzene	ug/L	ND	0.50	03/26/15 16:59	
Diisopropyl ether	ug/L	ND	0.50	03/26/15 16:59	
Ethyl-tert-butyl ether	ug/L	ND	0.50	03/26/15 16:59	
Ethylbenzene	ug/L	ND	0.50	03/26/15 16:59	
Methyl-tert-butyl ether	ug/L	ND	0.50	03/26/15 16:59	
tert-Amylmethyl ether	ug/L	ND	0.50	03/26/15 16:59	
tert-Butyl Alcohol	ug/L	ND	5.0	03/26/15 16:59	
Toluene	ug/L	ND	0.50	03/26/15 16:59	
TPH as Gas	ug/L	ND	50.0	03/26/15 16:59	
Xylene (Total)	ug/L	ND	1.0	03/26/15 16:59	
1,2-Dichloroethane-d4 (S)	%	102	70-130	03/26/15 16:59	
4-Bromofluorobenzene (S)	%	81	70-130	03/26/15 16:59	
Toluene-d8 (S)	%	97	70-130	03/26/15 16:59	

LABORATORY CONTROL SAMPLE: 195613

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	40	41.9	105	70-130	
1,2-Dichloroethane	ug/L	40	42.7	107	70-130	
Benzene	ug/L	40	40.6	102	70-130	
Diisopropyl ether	ug/L	40	40.8	102	70-130	
Ethyl-tert-butyl ether	ug/L	40	36.5	91	70-130	
Ethylbenzene	ug/L	40	40.4	101	70-130	
Methyl-tert-butyl ether	ug/L	40	38.6	96	70-130	
tert-Amylmethyl ether	ug/L	40	38.0	95	70-130	
tert-Butyl Alcohol	ug/L	400	410	102	70-130	
Toluene	ug/L	40	42.0	105	70-130	
Xylene (Total)	ug/L	120	123	102	70-130	
1,2-Dichloroethane-d4 (S)	%			100	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			104	70-130	

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QUALITY CONTROL DATA

Project: 255325 1Q15 GW Event

Pace Project No.: 1244482

Parameter	Units	195618		195619		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		1244482001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							
1,2-Dibromoethane (EDB)	ug/L	ND	40	40	41.5	41.0	104	103	70-130	1	25	
1,2-Dichloroethane	ug/L	ND	40	40	43.7	42.7	109	107	70-130	2	25	
Benzene	ug/L	ND	40	40	40.5	39.8	101	100	70-130	2	25	
Diisopropyl ether	ug/L	ND	40	40	40.4	40.1	101	100	70-130	1	25	
Ethyl-tert-butyl ether	ug/L	ND	40	40	37.7	37.3	94	93	70-130	1	25	
Ethylbenzene	ug/L	ND	40	40	37.9	37.0	94	92	70-130	2	25	
Methyl-tert-butyl ether	ug/L	3.8	40	40	42.9	42.7	98	97	70-130	0	25	
tert-Amylmethyl ether	ug/L	ND	40	40	38.2	37.8	96	94	70-130	1	25	
tert-Butyl Alcohol	ug/L	976	400	400	1410	1330	107	88	70-130	6	25	
Toluene	ug/L	ND	40	40	38.3	38.0	95	95	70-130	1	25	
Xylene (Total)	ug/L	2.4	120	120	105	102	85	83	70-130	3	25	
1,2-Dichloroethane-d4 (S)	%.						100	100	70-130			
4-Bromofluorobenzene (S)	%.						96	99	70-130			
Toluene-d8 (S)	%.						98	99	70-130			

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 255325 1Q15 GW Event
Pace Project No.: 1244482

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-DAV Pace Analytical Services - Davis

ANALYTE QUALIFIERS

- 1V Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results may be biased low due to carryover from the preceding sample.
- 2V Analyte recovery in the laboratory control sample (LCS) was outside QC limits due to matrix carryover within the analytical system from the preceding sample analysis.
- 3V Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits due to matrix interferences.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 255325 1Q15 GW Event

Pace Project No.: 1244482

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
1244482001	U-1_20150331	EPA 8260B	DAVM/1078		
1244482002	U-2_20150331	EPA 8260B	DAVM/1078		
1244482003	U-3_20150331	EPA 8260B	DAVM/1078		
1244482004	U-4_20150331	EPA 8260B	DAVM/1078		
1244482005	U-5_20150331	EPA 8260B	DAVM/1078		
1244482006	U-6_20150331	EPA 8260B	DAVM/1078		
1244482001	U-1_20150331	EPA 8260B	DAVM/1094		
1244482002	U-2_20150331	EPA 8260B	DAVM/1094		
1244482003	U-3_20150331	EPA 8260B	DAVM/1094		
1244482004	U-4_20150331	EPA 8260B	DAVM/1094		
1244482005	U-5_20150331	EPA 8260B	DAVM/1094		
1244482006	U-6_20150331	EPA 8260B	DAVM/1094		

REPORT OF LABORATORY ANALYSIS

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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.

1Q15 GW Event

Required Lab Information:		Required Project Information:			Required Invoice Information:		
Lab Name: Pace	Site ID #: 255325	Task: WG_Q_201503	Send Invoice to: Sandy Hayes	Address: 11050 White Rock Road, Suite 110		Turn around time (days): 10	
Address: 2795 Second Street #300	AnteaGrp proj#:	Address: 11050 White Rock Road, Suite 110		QC level Required: Standard	Special	Mark one	
Davis, CA 95618	Site Address: 3200 LAKESHORE AVE	City/State: Rancho Cordova CA 95670	Phone #: 916-638-2085	NJ Reduced Deliverable Package?			
Lab PM: Scott Forbes	City: OAKLAND	State: CA 94610	Reimbursement project?	Non-reimbursement project? Y	Mark one		
Phone/Fax: P: 530-297-4800 F: 530-297-4808	AG PM Name: Dennis Dettloff	Send EDD to: agdataview.us@anteagroup.com		MA MCP Cert?	CT RCP Cert?	Mark One	
Lab PM email: SForbes@kiffanalytical.com	Phone/Fax: P: 916-503-1261 F: 408-225-8506	CC Hardcopy report to		Lab Project ID (lab use)			
Applicable Lab Quote #:	AG PM Email: dennis.dettloff@anteagroup.com	CC Hardcopy report to		Requested Analyses			

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9, -) Samples IDs MUST BE UNIQUE	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	SAMPLE DATE	SAMPLE TIME	#OF CONTAINERS	FIELD FILTERED? (Y/N)	Preservatives										FIELD ANALYSES GC/MS GC/MS GRO GC/MS/MS GC/MS/MS	Comments/Lab Sample I.D.
								Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ SO ₄	Methanol	Other				
1	U-1_20150331	WG	G	3/12/15	16:30	4	N											7 Oxy's = DIPE, TBA, TAME, ETBE, 1,2-DCA, EDB, and Ethanol	
2	U-2_20150331	WG	G	↑	16:00	↓	↓												
3	U-3_20150331	WG	G	↑	14:10	↓	↓												
4	U-4_20150331	WG	G	↑	13:25	↓	↓												
5	U-5_20150331	WG	G	↑	15:15	↓	↓												
6	U-6_20150331	WG	G	↓	14:40	↓	↓												
7																			
8																		**THIS SITE HAS SURFACTANTS**	
9																			
10																			
11																			
12																			


Additional Comments/Special Instructions: Global ID: T0600101463	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	Sample Receipt Conditions			
	<i>Jonathan F. Williams</i>	3/13/15	8:15	<i>Michelle Spores</i>	03/13/15	08:15	Y/N	Y/N	Y/N	
							Y/N	Y/N	Y/N	
							Y/N	Y/N	Y/N	
SHIPPING METHOD: (mark as appropriate)				SAMPLER NAME AND SIGNATURE			Temp in °C	Samples on Ice?	Sample intact?	Trip Blank?
UPS COURIER FEDEX	PRINT Name of SAMPLER:									
US MAIL	SIGNATURE of SAMPLER:		DATE Signed	Time:						
				<i>Jonathan F. Williams</i>	3/13/15	8:10				

Sample Condition Upon Receipt

Client Name: Anka

Project #: _____

WO#: 1244482



1244482

Courier: Fed Ex UPS USPS Client
 Commercial Pace OnTrac Other: _____

Tracking Number: _____

Custody Seal on Cooler/Box Present? Yes No **Seals Intact?** Yes No **Optional:** Proj. Due Date: _____ Proj. Name: _____

Packing Material: Bubble Wrap Bubble Bags None Other: _____ **Temp Blank?** Yes No

Thermom. Used: DA1434 DA2285 **Type of Ice:** Wet Blue Dry Ice None Samples on Ice, cooling process has begun

Cooler Temp Read(°C): 0.6 **Cooler Temp Corrected(°C):** 0.6 **Biological Tissue Frozen?** Yes No N/A

Temp should be above freezing to 6°C **Correction Factor:** 0 **Date and Initials of Person Examining Contents:** MAS 03/15

Question	Yes	No	N/A	Comments
Chain of Custody Present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1.
Chain of Custody Filled Out?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2.
Chain of Custody Relinquished?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3.
Sampler Name and/or Signature on COC?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5.
Short Hold Time Analysis (<72 hr)?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	6.
Rush Turn Around Time Requested?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	7.
Sufficient Volume?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8.
Correct Containers Used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9.
-Pace Containers Used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Containers Intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10.
Filtered Volume Received for Dissolved Tests?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	11. Note if sediment is visible in the dissolved container.
Sample Labels Match COC?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	12.
-Includes Date/Time/ID/Analysis Matrix:				
All containers needing acid/base preservation have been checked?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	13. <input type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> NaOH <input type="checkbox"/> HCl
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO ₃ , H ₂ SO ₄ , HCl<2; NaOH >9 Sulfide, NaOH>12 Cyanide) Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Sample #
	<input checked="" type="checkbox"/>	<input type="checkbox"/>		Initial when completed: _____ Lot # of added preservative: _____
Headspace in VOA Vials (>6mm)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	14.
Trip Blank Present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	15.
Trip Blank Custody Seals Present?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Pace Trip Blank Lot # (if purchased):				

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** Yes No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: Scott Johnson **Date:** 3/18/15

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Is the Data Valid?
(circle)
Yes / No

Preservation Temperature
(if Known): 0.6 °C

Antea Group Lab Validation Sheet

Project/Client: COP/ELT
Project #: 140255325
Date of Validation: 4/27/15 Date of Analysis: 3/27/15 Sample Date: 3/12/15
Completed By: Jon F. Signature: Jonathan Fallisimo
Analytical Lab Used and Report # (if any): Pace Analytical 1244482

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/m³, 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/a
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

Circle or Highlight Yes/No below

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

9. Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits due to matrix interferences. (Ethanol)

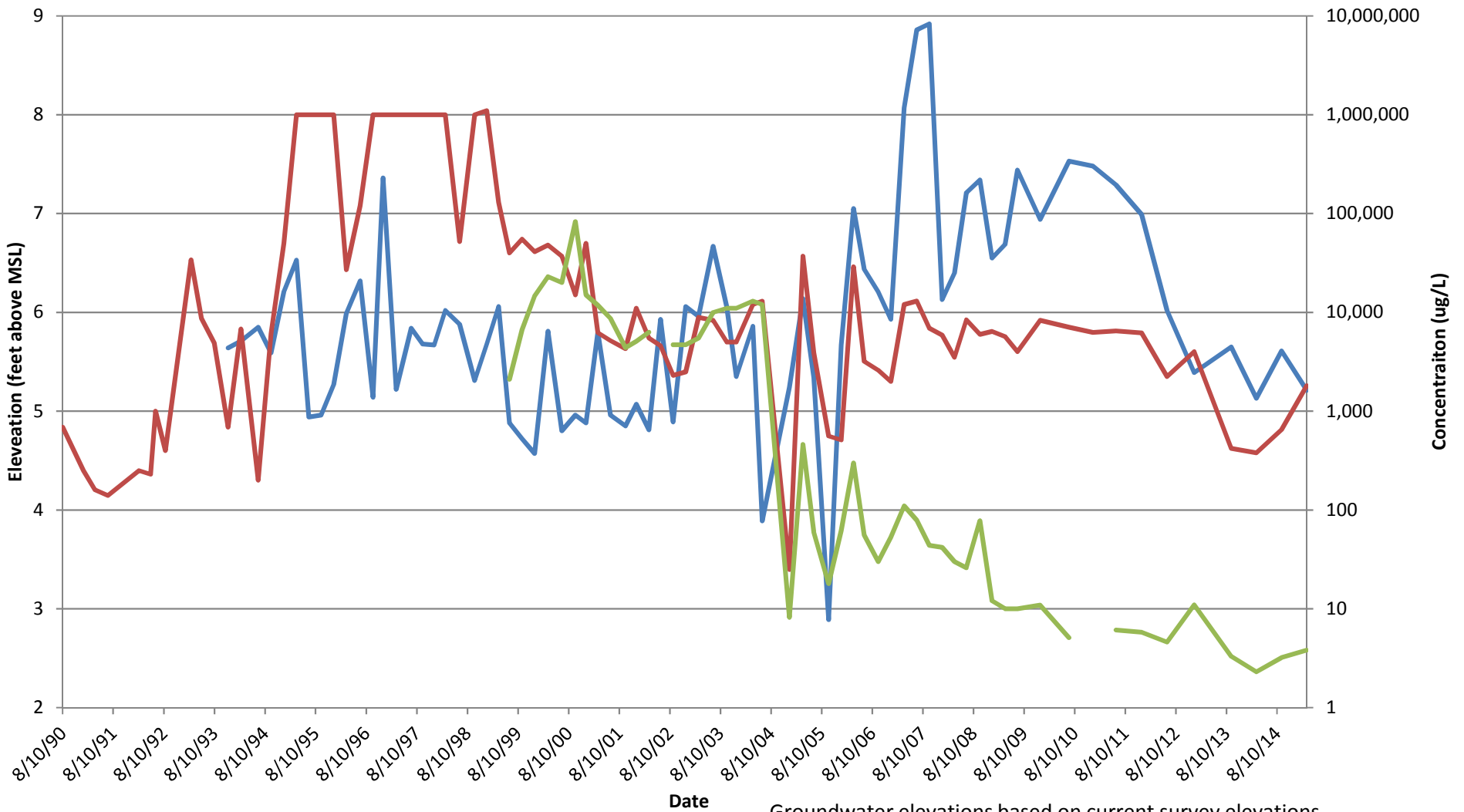
Semi-Annual Summary Report – October 2014 through March 2015
76 Service Station No. 5325
Oakland, CA
Antea Group Project No. I40255325



Attachment E

TPHg and MTBE Concentrations and Groundwater Elevation Graphs

U-1
76 SERVICE STATION NO. 5325
3220 LAKESHORE AVENUE
OAKLAND, CALIFORNIA



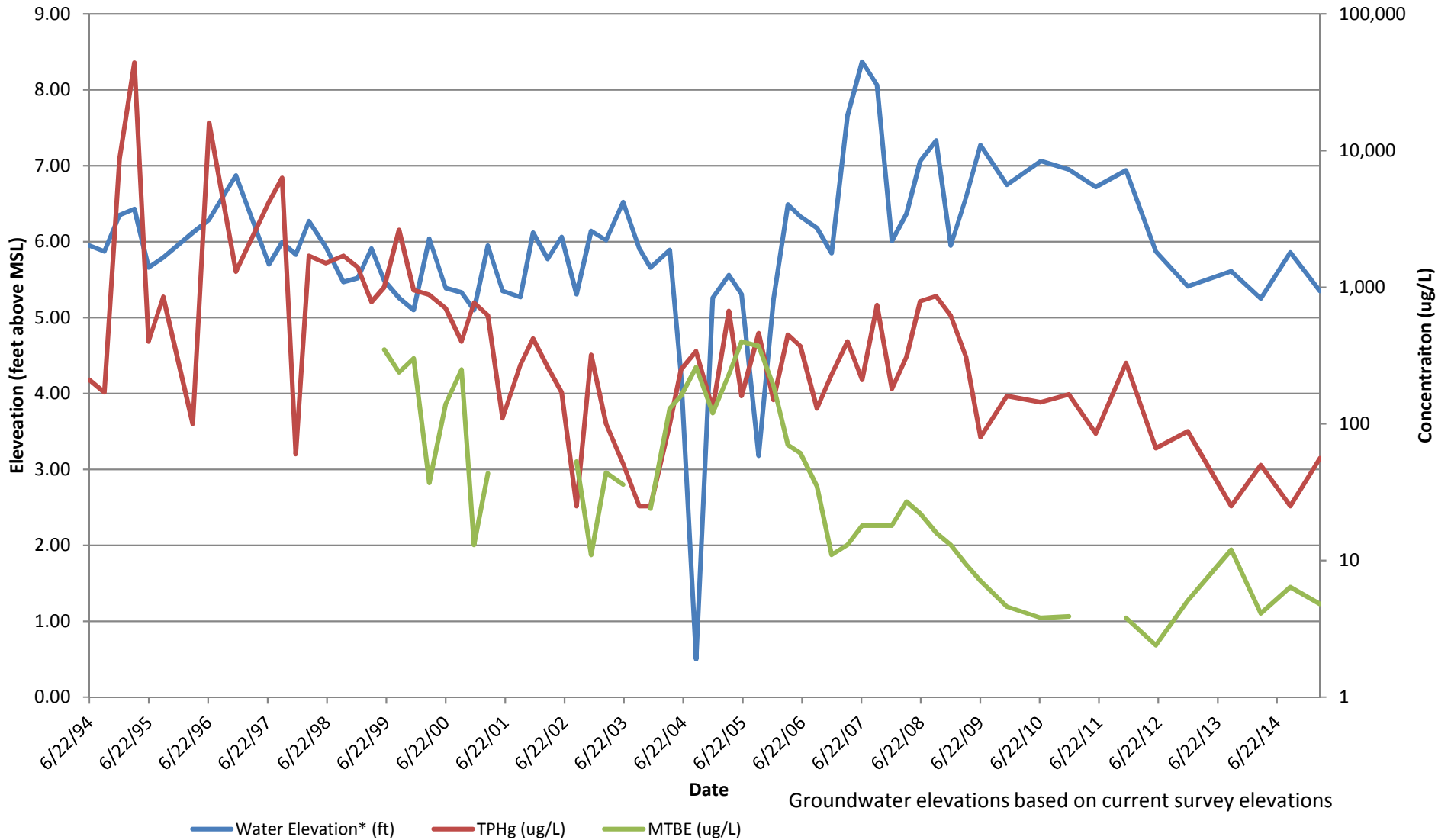
— Water Elevation* (ft) — TPHg (ug/L) — MTBE (ug/L)

Groundwater elevations based on current survey elevations
 1,000,000 ug/L = Liquid phase hydrocarbons

U-2
76 SERVICE STATION NO. 5325
3220 LAKESHORE AVENUE
OAKLAND, CALIFORNIA



U-5
76 SERVICE STATION NO. 5325
3220 LAKESHORE AVENUE
OAKLAND, CALIFORNIA



U-6
76 SERVICE STATION NO. 5325
3220 LAKESHORE AVENUE
OAKLAND, CALIFORNIA

