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January 5, 2012

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

Subject: **Semi-Annual Summary Report, July through December 2011**
Site: **76 Service Station No. 5325**
 3220 Lakeshore Avenue
 Oakland, California
 Fuel Leak Case No. RO0000229

Dear Ms. Jakub;

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:

Brian Whalen
Platinum Energy
30343 Canwood Street, Suite 200
Agoura Hills, California 91301
Tel: (818) 206-5704
Fax: (818) 206-5721
bwhalen@platinum-energy.com

Sincerely,

PLATINUM ENERGY



BRIAN WHALEN

Attachment

Semi-Annual Summary Report, July through December 2011

*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

January 5, 2012

*Prepared for:
Ms. Barbara J. Jakub, P.G.
Alameda County Environmental
Health
1131 Harbor Bay Parkway,
Suite 250
Alameda, CA 94502*

*Prepared by:
Antea™Group
11050 White Rock Road,
Suite 110
Rancho Cordova, CA 95670
+1 800 477 7411*

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- Attachment A Summary of Previous Environmental Investigations
- Attachment B Blaine Tech Services Groundwater Sampling Procedures
- Attachment C Blaine Tech Services Groundwater Sampling Field Data Sheets
- Attachment D Certified Laboratory Analytical Report and Data Validation Form
- Attachment E Waste Manifest

1.0 INTRODUCTION

Antea™Group is pleased to submit this *Semi-Annual Summary Report, July through December 2011* for the referenced site in Oakland, CA. The site is located on the southeast corner of the intersection of Lakeshore Avenue and Lake Park Avenue in Oakland, California (**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 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**. Blaine Tech's procedures for groundwater monitoring, sampling, and equipment decontamination are presented as **Attachment B**. Groundwater monitoring and sampling field data sheets are presented as **Attachment C**. The groundwater sampling certified analytical report and chain-of-custody documentation are presented as **Attachment D**.

Site summary data has been tabled in the following:

- **Table 1** summarizes the current groundwater gauging and analytical data.
- **Table 2** summarizes the historical groundwater gauging and analytical data.
- **Table 3** 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 December 5, 2011. This report has received a technical review by Mr. Dennis Dettloff, California Professional Geologist No.7480.

1.1 Work Performed: July through December 2011

1. Antea Group prepared and submitted the *Semi-Annual Summary Report, January through June 2011, dated July 29, 2011*.
2. Antea Group conducted a utility survey to locate underground utilities on the site and in the surrounding street. Antea Group prepared and submitted the *Site Summary Report* dated August 31, 2011.
3. On November 2, 2011, Antea Group submitted a *Work Plan, Magnesium Sulfate Infiltration, Feasibility Study* to the Alameda County Health Care Services Agency (ACHCSA) for their review.
4. Blaine Tech Services, Inc. (Blaine Tech) conducted the quarterly groundwater sampling event on December 5, 2011.

1.2 Work Proposed: January through June 2012

1. Antea Group will prepare and submit the *Semi-Annual Summary Report, July through December 2011*, contained herein.
2. Antea Group will perform the work as proposed in the *Work Plan, Magnesium Sulfate Infiltration, Feasibility Study* submitted to the ACHCSA on November 2, 2011.
3. Blaine Tech will conduct the semi-annual groundwater monitoring and sampling in the second quarter 2012.

2.0 CURRENT PROJECT STATUS

Current phase of project:	Semi-Annual Groundwater Monitoring
Local Oversight Program (LOP) – Lead agency for cleanup oversight:	Alameda County Health Care Services Agency (ACHCSA) Fuel Leak Case No. RO0000229
Contact:	Ms. Barbara Jakub
Secondary agency for cleanup oversight	San Francisco Bay Regional Water Quality Control Board (SFBRWQCB) No. 01-1588
Monitoring well gauging schedule:	Semi-annually: U-1 through U-6 (second and fourth quarters)
Monitoring well sampling schedule:	Semi-annually: U-1 through U-6 (second and fourth quarters)
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
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: -5.67 (U-6, Q3 2004) Max: 4.89 (U-4, Q1 2006)
Local Receptors:	Lake Merritt is 0.3 miles southwest of the site
Current Remediation Technique:	None

2.1 Regulatory Correspondence

No correspondence was sent to or received from the ACHCSA during this reporting period.

2.2 Remediation Status

No remedial activities are taking place on-site at this time.

2.3 Groundwater Monitoring

Semi-annual groundwater monitoring and sampling was conducted at the site on December 5, 2011 by Blaine Tech per their standard sampling protocol (**Attachment B**). A total of six monitoring wells were gauged and five monitoring wells were sampled. A car parked over monitoring well U-6 subsequent to gauging and prior to sampling. A copy of Blaine Tech's field notes are presented as **Attachment C**. Measured depths to groundwater and respective groundwater elevations are summarized in **Table 1**. 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 2**. Gauging and sampling data from the most recent monitoring and sampling event are summarized below.

Well gauging and sampling date:	December 5, 2011
Wells gauged:	U-1 through U-6
Wells sampled:	U-1 through U-5
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, oxidation-reduction potential (ORP), and turbidity
Wells with measurable LNAPL:	None
Depth to Water Range (ft BTOC):	5.35 (U-6) to 10.59 (U-3)
Groundwater Elevation Range (ft above mean sea level):	5.78 (U-3) to 7.85 (U-2)
Change in depth to water from previous event (average change for all gauged wells):	0.61 decrease
Groundwater Flow Direction and Gradient in foot per foot (ft/ft):	Northeast at 0.015 ft/ft and southwest at 0.038 ft/ft

All monitoring and sampling activities for the site were conducted on December 5, 2011 by Blaine Tech 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-5 were submitted with chain-of-custody documentation to Pace Analytical Services, Inc. (Pace) in Seattle, WA, a California state-certified laboratory (No. 01153CA). (Monitoring well MW-6 was not sampled because a car was parked over it.) Groundwater samples were analyzed for the following:

- TPHg by the CA LUFT Method
- Benzene, toluene, ethylbenzene, and total xylenes (collectively BTEX), methyl tertiary-butyl ether (MTBE), tertiary amyl-methyl ether (TAME), tertiary butyl alcohol (TBA), di-isopropyl ether (DIPE), ethyl tertiary-butyl ether (ETBE), 1,2-dichloroethane (1,2-DCA), 1,2-dibromoethane (EDB), and ethanol by Environmental Protection Agency (EPA) Method 8260.

2.3.2 Groundwater Quality Data

Groundwater analytical results are tabulated in **Table 1** (current) and **Table 2** (historical). During the December 2011 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 5	279 (U-5)	6,190 (U-1)
Ethylbenzene	2 of 5	1.1 (U-1)	17.4 (U-2)
TBA	3 of 5	86.6 (U-5)	1,040 (U-2)
MTBE	4 of 5	1.4 (U-3)	17.4 (U-2)

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 (6,190 µg/L), U-2 (4,140 µg/L), and U-5 (279 µg/L) during the current event (**Figure 4**).

Benzene: Benzene was below the laboratory's indicated reporting limit in the groundwater samples collected and submitted for analysis from each of the five monitoring wells.

MTBE: MTBE was above the laboratory's indicated reporting limits in the groundwater samples collected and submitted for analysis from monitoring wells U-1 (5.8 µg/L), U-2 (17.0 µg/L), U-4 (1.4 µg/L) and U-5 (3.8 µg/L) during the current event (**Figure 5**).

In addition, ethylbenzene was present in the groundwater samples collected and submitted for analysis from monitoring wells U-1 (1.1 µg/L) and U-2 (17.4 µg/L), and TBA was present in the groundwater samples collected and submitted for analysis from monitoring wells U-1 (872 µg/L), U-2 (1,040 µg/L), and U-5 (86.6 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 December 5, 2011 groundwater analytical results and historical groundwater monitoring and analytical results are presented in **Table 1**. Pace Laboratory's analytical report and chain-of-custody documentation are presented as **Attachment D**.

The December 2011 groundwater elevation contour map is presented as **Figure 3**. A dissolved phase TPHg iso-concentration map is presented as **Figure 4**. A dissolved phase MTBE iso-concentration map is presented as **Figure 5**. Historical groundwater flow directions are shown on a rose diagram, presented as **Figure 6**.

2.3.4 Waste Disposal Summary

Water generated during well sampling and equipment cleaning was temporarily stored by Blaine Tech in a 2000-gallon poly tank. After the batch process, the generated wastewater was transported for proper disposal at Seaport Environmental in Redwood City, California. The method of containment and disposal is reported in Blaine Tech's procedures for groundwater sampling in **Attachment B**. A copy of the waste manifest is presented as **Attachment E**.

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 December 2011 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:	One (E)
Validity of Laboratory Data:	Data set is Valid

Data Qualifiers:

E – Analyte concentration exceeded the calibration range. The reported result is estimated.

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

3.0 CONCLUSIONS AND RECOMMENDATIONS

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.

4.0 REMARKS

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

Prepared by:


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:


Dennis S. Dettloff, P.G.

Project Manager

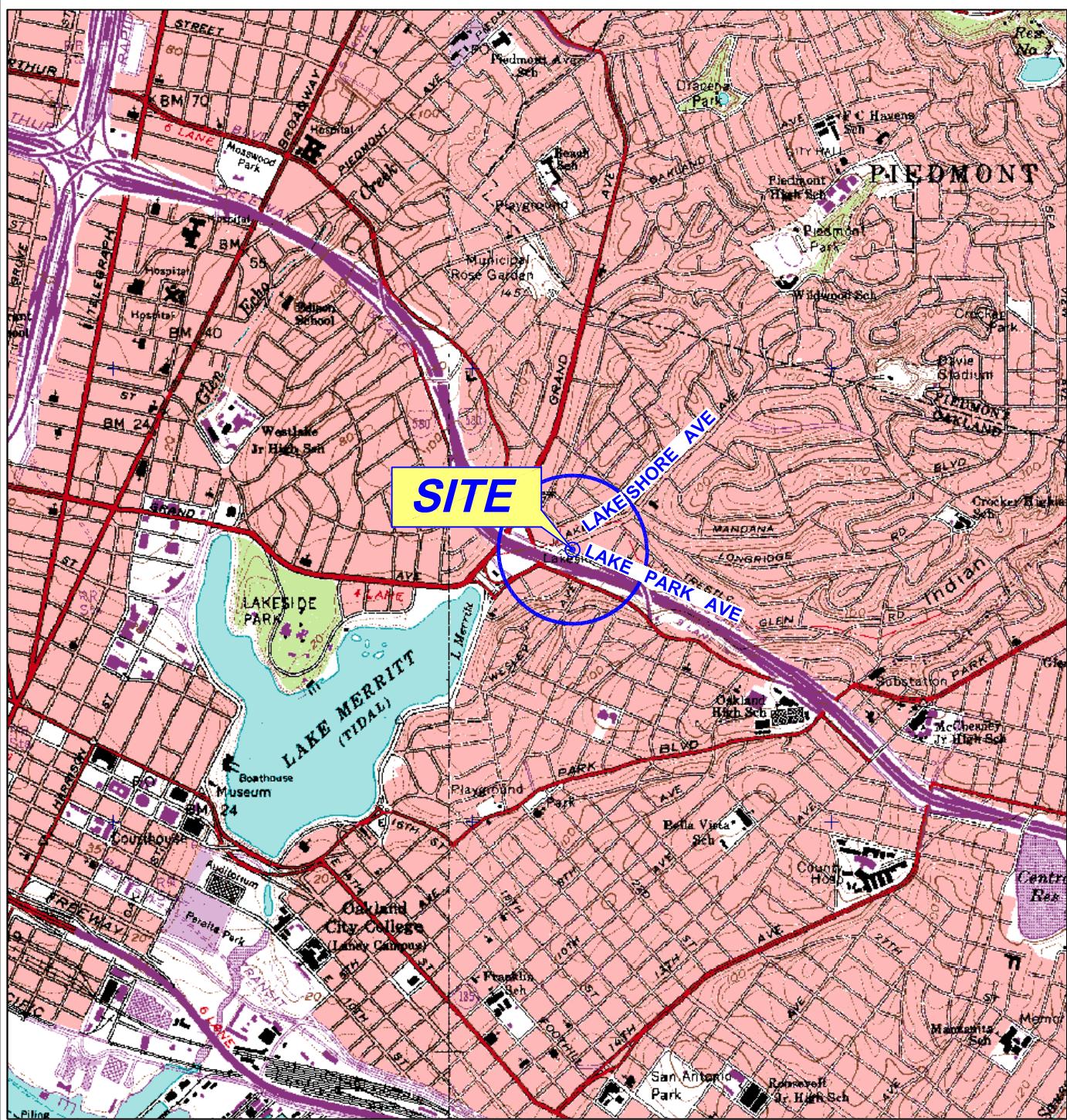
California Registered Professional Geologist No. 7480



cc: GeoTracker (upload)

Figures

- | | |
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| Figure 5 | Dissolved Phase MTBE Isoconcentration Map – December 5, 2011 |
| 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

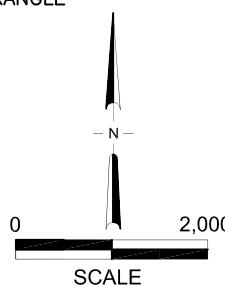
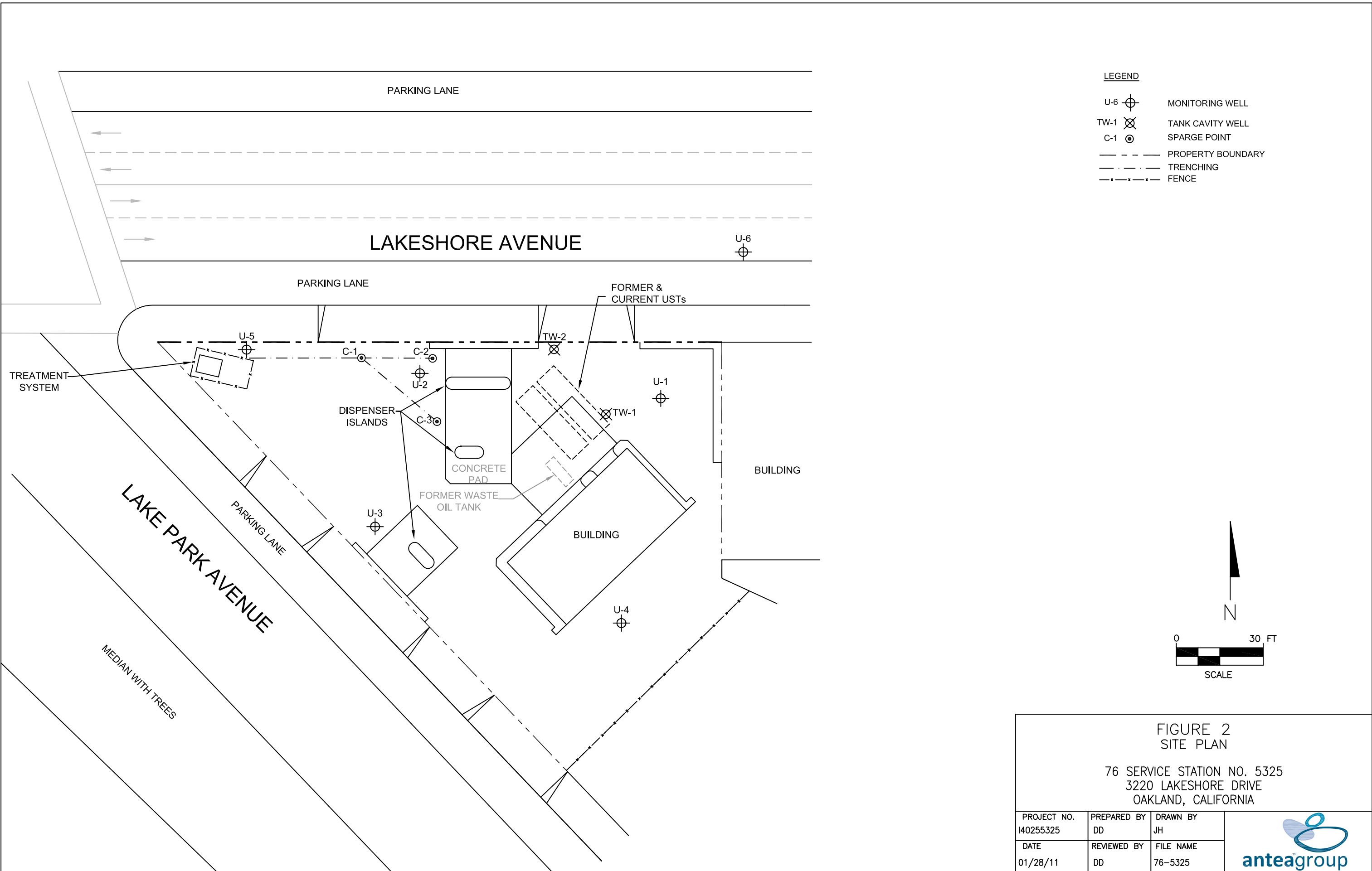


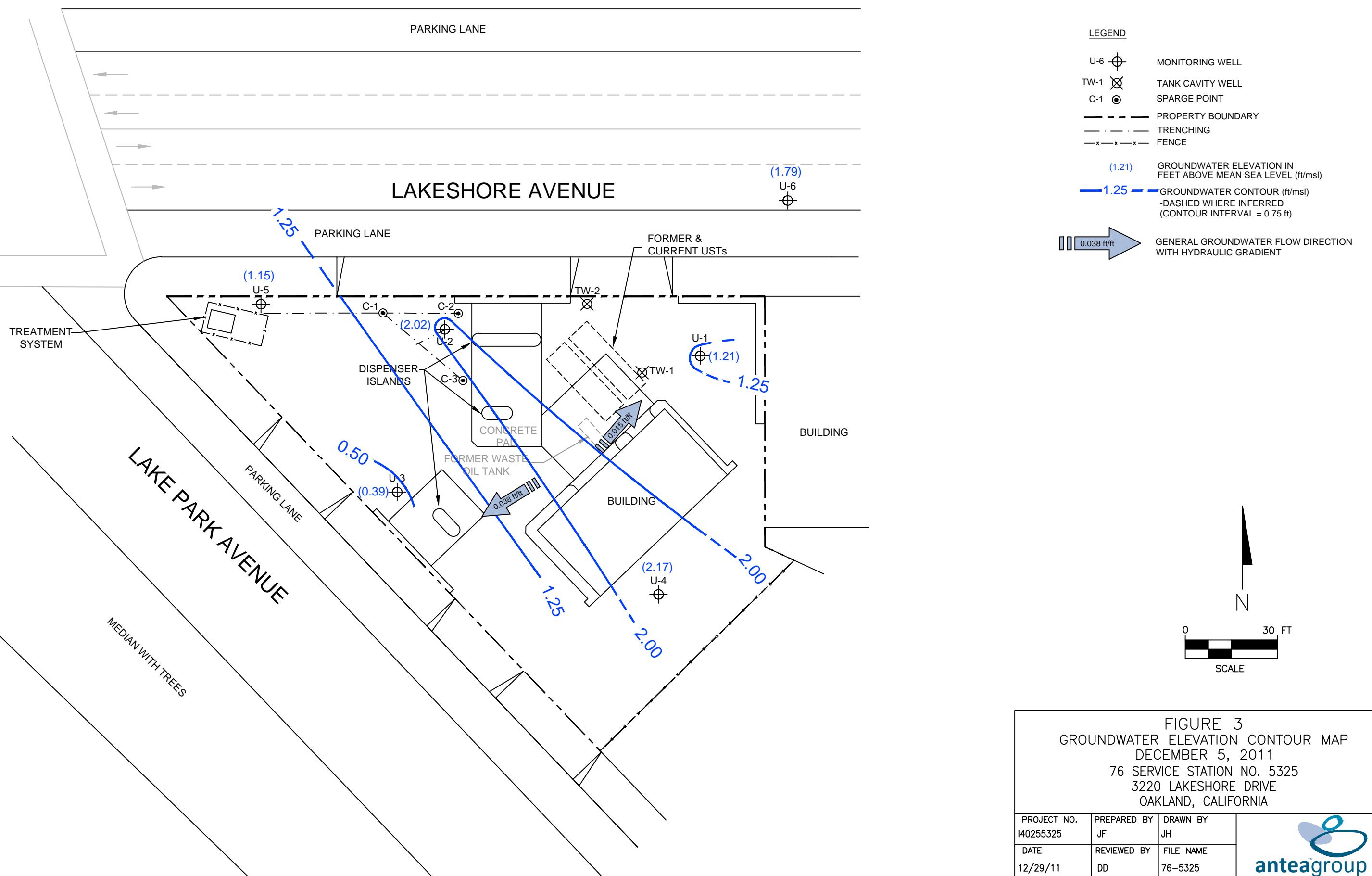
FIGURE 1
SITE LOCATION MAP

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

PROJECT NO. I40255325	DRAWN BY JH
FILE NO. 5325-SLM	PREPARED BY EW
DATE 28 JAN 11	REV. 2







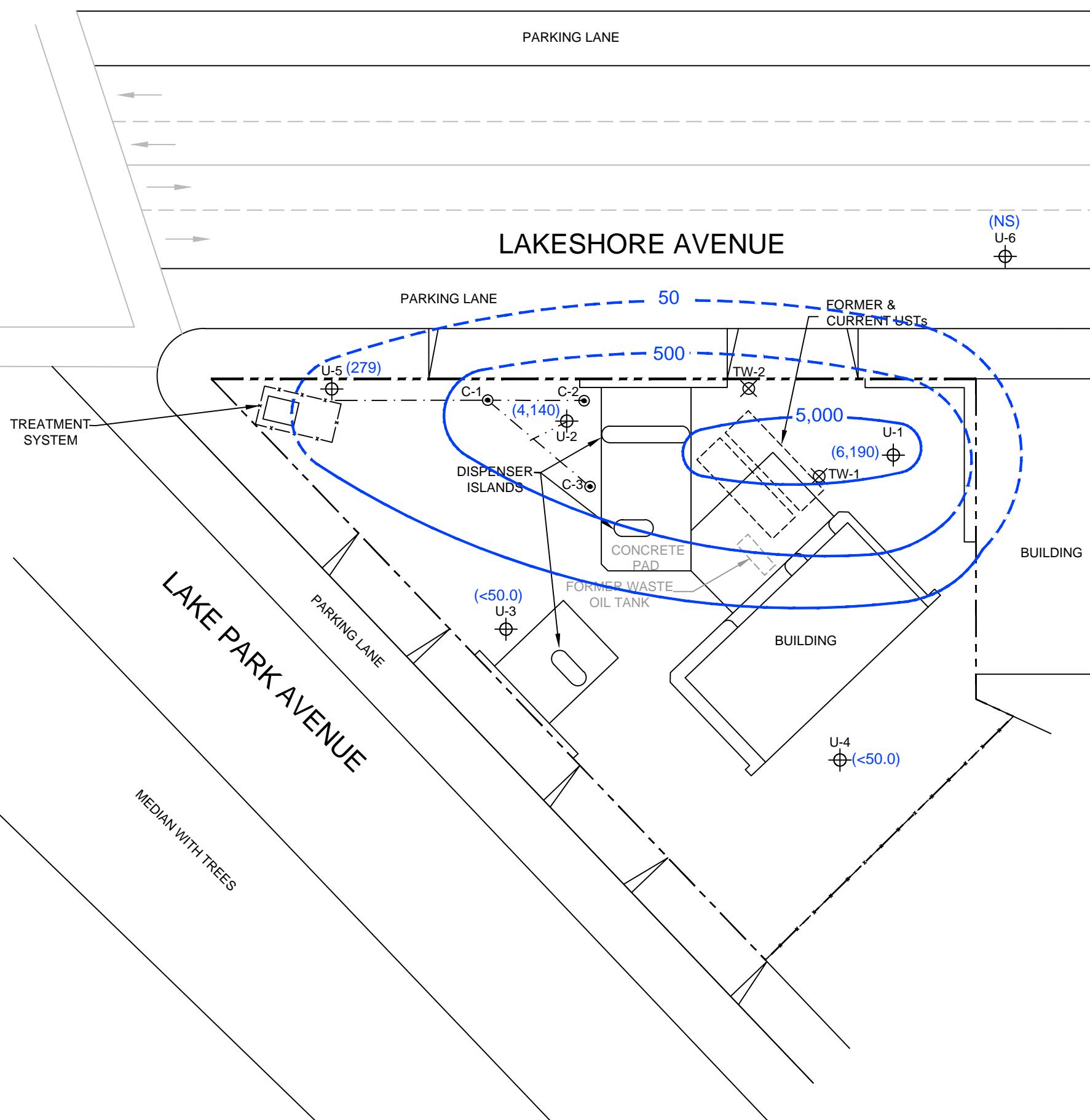


FIGURE 4
DISSOLVED PHASE TPHg ISOCONCENTRATION MAP
DECEMBER 5, 2011
76 SERVICE STATION NO. 5325
3220 LAKESHORE DRIVE
OAKLAND, CALIFORNIA

PROJECT NO. I40255325	PREPARED BY JF	DRAWN BY JH	
DATE 12/29/11	REVIEWED BY DD	FILE NAME 76-5325	

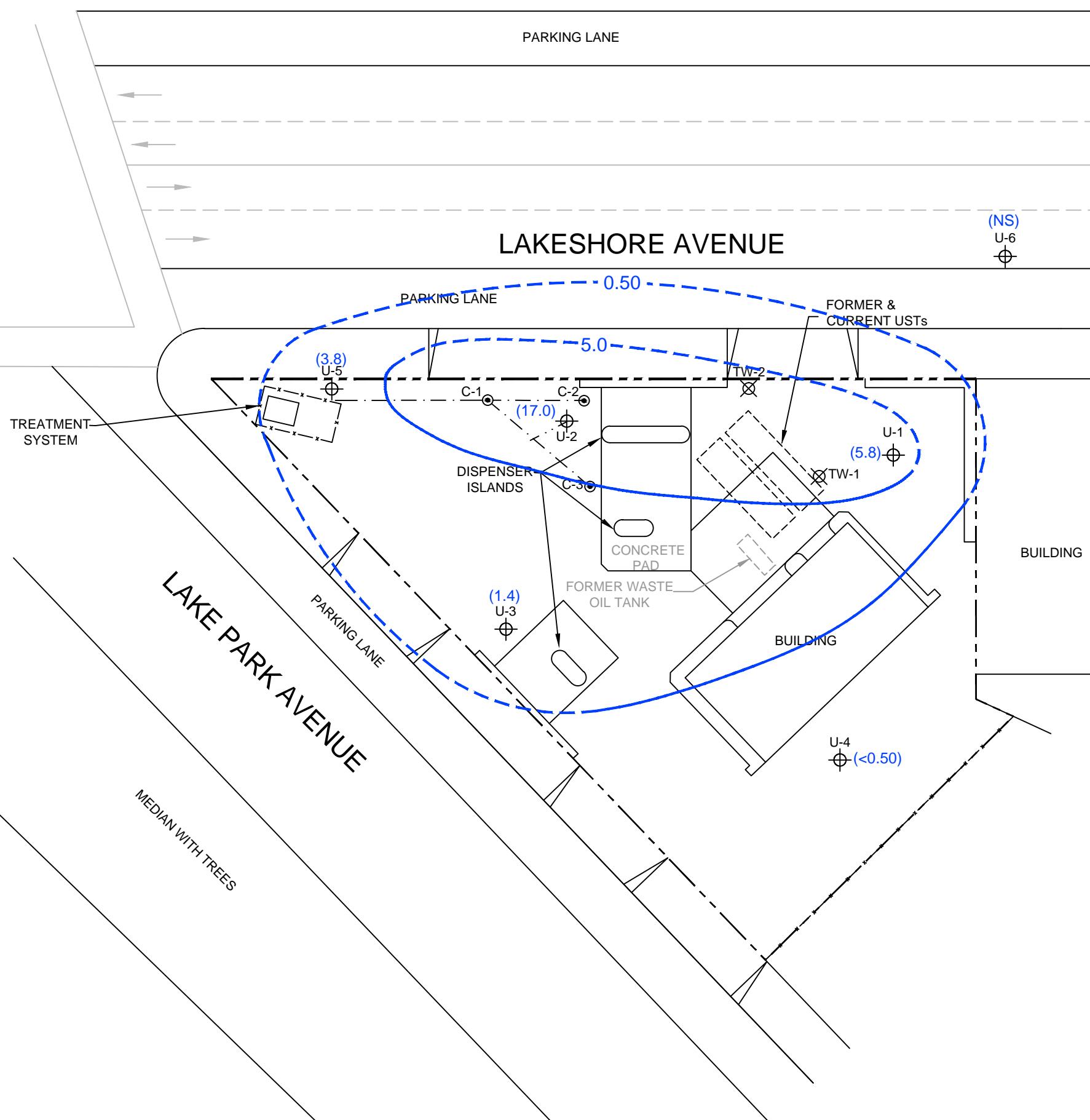
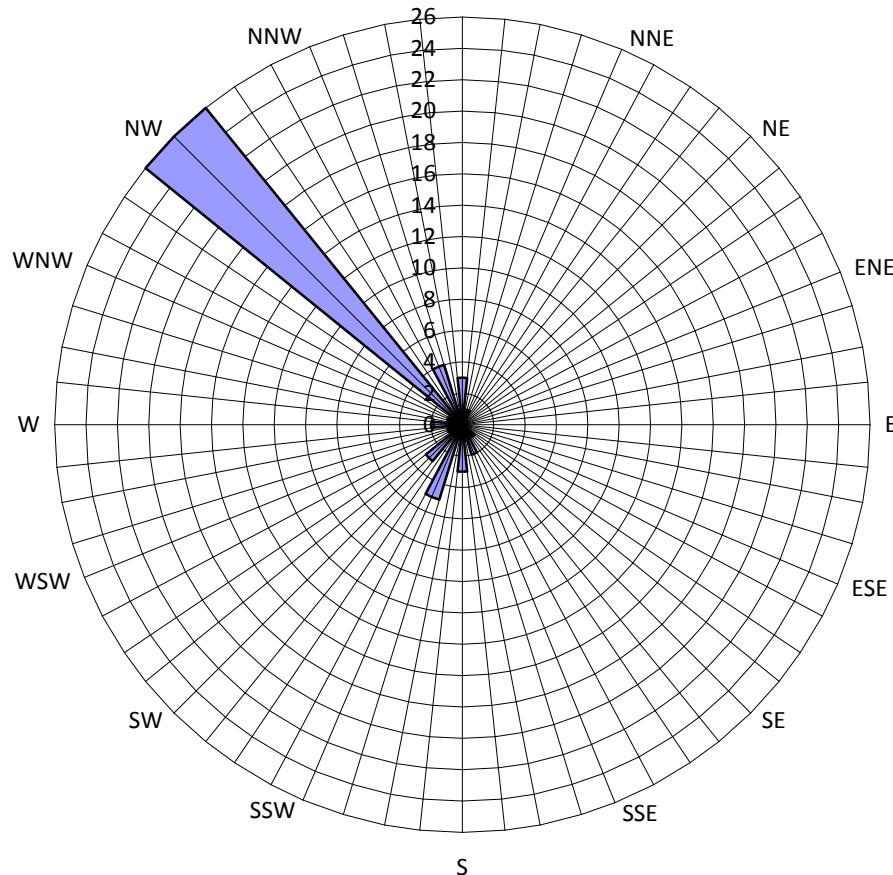


FIGURE 5
DISSOLVED PHASE MTBE ISOCONCENTRATION MAP
DECEMBER 5, 2011
76 SERVICE STATION NO. 5325
3220 LAKESHORE DRIVE
OAKLAND, CALIFORNIA

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



■ Groundwater Flow Direction

Legend
Groundwater flow directions are based on data from the Third Quarter 1990 to the Fourth Quarter 2011. 52 data points shown.

Tables

Table 1 Current Groundwater Gauging and Analytical Data

Table 2 Historical Groundwater Gauging and Analytical Data

Table 3 Historical Groundwater Gradient and Flow Directions

TABLE 1
CURRENT GROUNDWATER GAUGING AND ANALYTICAL DATA
76 Service Station No. 5325
3200 LAKESHORE AVE
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	12/5/2011	14.24	7.25	NP	6.99	6,190	<0.50	<0.50	1.1	<1.5	5.8	<0.50	<0.50	<0.50	872	<250	<1.0	<1.0
U-2	12/5/2011	13.45	5.60	NP	7.85	4,140	<0.50	<0.50	17.4	<1.5	17.0	<0.50	<0.50	<0.50	1,040	<250	<1.0	<1.0
U-3	12/5/2011	16.37	10.59	NP	5.78	<50.0	<0.50	<0.50	<0.50	<1.5	1.4	<0.50	<0.50	<0.50	<5.0	<250	<1.0	<1.0
U-4	12/5/2011	16.55	8.98	NP	7.57	<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
U-5	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
U-6	12/5/2011	12.88	5.35	NP	7.53	--	--	--	--	--	--	--	--	--	--	--	--	

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:

Bold - above laboratory's indicated reporting limit

< - Below laboratory's indicated reporting limit

ug/L - micrograms/liter

TPHg- Total Petroleum Hydrocarbon as gasoline

MTBE- Methyl tertiary-butyl ether

TBA- Tertiary-butyl alcohol

DIPE- Di-isopropyl ether

ETBE- Ethyl tertiary-butyl ether

TAME- Tertiary-amyl methyl ether

TABLE 2
HISTORICAL GROUNDWATER GAUGING AND ANALYTICAL DATA
76 Service Station No. 5325
3200 LAKESHORE AVE
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 8021 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	Ethanol (ug/L)	1,2-Dibromoethane (EDB) (ug/L)
U-1	8/10/1990	NSVD	NG	NG	NG	690	38	75	8.6	130	--	--	--	--	--	--	--	--
	1/7/1991	NSVD	NG	NG	NG	250	22	16	4.2	17	--	--	--	--	--	--	--	--
	4/1/1991	NSVD	NG	NG	NG	160	13	8.6	1.0	15	--	--	--	--	--	--	--	--
	7/3/1991	NSVD	NG	NG	NG	140	21	4.3	0.36	17	--	--	--	--	--	--	--	--
	10/9/1991	NSVD	NG	NG	NG	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
	2/12/1992	NSVD	NG	NG	NG	250	ND	ND	ND	ND	--	--	--	--	--	--	--	--
	5/5/1992	NSVD	NG	NG	NG	230	1.2	ND	ND	ND	--	--	--	--	--	--	--	--
	6/11/1992	NSVD	NG	NG	NG	1000	80	1.4	6.7	41	--	--	--	--	--	--	--	--
	8/20/1992	NSVD	NG	NG	NG	400	1.0	ND	ND	0.6	--	--	--	--	--	--	--	--
	2/22/1993	NSVD	NG	NG	NG	34000	1400	5500	910	7300	--	--	--	--	--	--	--	--
	5/7/1993	NSVD	NG	NG	NG	8700	600	240	650	3300	--	--	--	--	--	--	--	--
	8/8/1993	NSVD	NG	NG	NG	4900	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	6800	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	6100	ND	ND	ND	ND	--	--	--	--	--	--	--	--
	12/24/1994	8.46	8.03	NP	0.43	50000	2500	9700	2400	17000	--	--	--	--	--	--	--	--
	3/25/1995	8.46	7.71	0.36	1.02	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
	9/19/1995	8.46	9.28	0.39	-0.53	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
	3/18/1996	8.46	8.25	NP	0.21	27000	ND	2300	1400	11000	4900	--	--	--	--	--	--	--
	6/27/1996	8.46	7.92	NP	0.54	120000	540	4300	2600	26000	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
	12/9/1996	8.46	6.88	0.03	1.60	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
	6/30/1997	8.46	8.40	0.01	0.07	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
	12/12/1997	8.46	8.57	0.00	-0.11	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
	6/15/1998	8.46	8.36	NP	0.10	52000	ND	900	1800	13000	ND	--	--	--	--	--	--	--
	9/30/1998	8.46	8.93	NP	-0.47	1000000	ND	2600	13000	83000	4800	--	--	--	--	--	--	--
	12/28/1998	8.46	8.56	NP	-0.10	1100000	ND	1600	8600	71000	5700	--	--	--	--	--	--	--
	3/22/1999	8.46	8.18	NP	0.28	130000	470	1100	2000	28000	5700	--	--	--	--	--	--	--
	6/9/1999	8.46	9.36	NP	-0.90	40000	230	640	590	13000	3500	2100	--	--	--	--	--	--
	9/8/1999	8.46	9.52	NP	-1.06	55000	217	202	745	14300	6890	6690	--	--	--	--	--	--
	12/7/1999	8.46	9.67	NP	-1.21	41200	89.3	ND	385	6930	15800	14700	--	--	--	--	--	--
	3/13/2000	8.46	8.43	NP	0.03	48000	490	610	2400	10000	22000	23000	--	--	--	--	--	--
	6/21/2000	8.46	9.44	NP	-0.98	37000	200	ND	1200	7200	15000	20000	--	--	--	--	--	--
	9/27/2000	8.46	9.28	NP	-0.82	15000	92	ND	540	2800	74000	83000	ND	ND	ND	ND	--	ND
	12/12/2000	8.46	9.36	NP	-0.90	50000	ND	ND	250	1900	12000	15000	--	--	--	--	--	--
	3/7/2001	8.46	8.44	NP	0.02	6220	29.8	10.4	96.3	638	11200	11800	ND	ND	ND	ND	--	ND
	6/6/2001	8.46	9.28	NP	-0.82	5200	17	ND	69	420	6500	8700	ND	ND	ND	ND	--	ND
	9/24/2001	8.46	9.39	NP	-0.93	4300	36	<25	65	590	4400	4400	<1000	<1000	<1000	<20000	<400000	<1000
	12/10/2001	8.46	9.17	NP	-0.71	11000	220	<100	380	1500	5100	5100	<100	<100	<100	<4000	<8000	<100
	3/11/2002	8.46	9.43	NP	-0.97	5500	28	<20	360	690	6400	6300	<100	<100	<100	<5000	<25000	<100
	6/4/2002	8.46	8.31	NP	0.15	4600	31	<10	240	180								

TABLE 2
HISTORICAL GROUNDWATER GAUGING AND ANALYTICAL DATA
76 Service Station No. 5325
3200 LAKESHORE AVE
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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 8021 (ug/L)	MTBE 8260 (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	12/2/2003	8.46	8.89	NP	-0.43	<10000	<100	<100	<100	<200	--	11000	--	--	--	<100000	--	--	
	3/30/2004	8.46	8.38	NP	0.08	12000	<100	<100	190	<200	--	13000	<200	<100	<100	3100	<10000	<100	<100
	6/7/2004	8.46	10.35	NP	-1.89	13000	<100	<100	<100	<200	--	12000	<200	<100	<100	3300	<10000	<100	<100
	9/9/2004	8.46	dry	dry	dry	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	
	12/20/2004	8.46	9.00	NP	-0.54	<50	<0.50	<0.50	<0.50	<1.0	--	8.2	<1.0	<0.50	<0.50	11	<50	<0.50	<0.50
	3/28/2005	8.46	8.10	NP	0.36	37000	<10	<10	1500	5300	--	460	--	--	--	--	<1000	--	--
	6/14/2005	8.46	8.90	NP	-0.44	3900	<0.50	<0.50	48	68	--	60	<10	<10	<10	4400	<1000	<10	<10
	9/28/2005	8.46	11.35	NP	-2.89	560	<0.50	0.60	3.0	26	--	18	<10	<10	<10	5500	<250	<10	<10
	12/29/2005	8.46	8.57	NP	-0.11	510	0.77	<0.50	27	63	--	62	<0.50	<0.50	<0.50	3900	<250	<0.50	<0.50
	3/27/2006	8.46	7.19	NP	1.27	29000	<25	<25	1500	4900	--	300	--	--	--	--	<12000	--	--
	6/12/2006	8.46	7.80	NP	0.66	3200	<0.50	<0.50	42	15	--	56	--	--	--	--	<250	--	--
	9/21/2006	8.46	8.03	NP	0.43	2600	<12	<12	<12	<12	--	30	--	--	--	--	<6200	--	--
	12/21/2006	8.46	8.31	NP	0.15	2000	<0.50	<0.50	13	2.2	--	53	--	--	--	--	<250	--	--
	3/28/2007	8.46	6.17	NP	2.29	12000	<2.5	<2.5	690	1900	--	110	<2.5	<2.5	<2.5	1600	<1200	<2.5	<2.5
	6/27/2007	8.46	5.38	NP	3.08	13000	2.8	<2.5	960	1300	--	79	<2.5	<2.5	<2.5	1500	<1200	<2.5	<2.5
	9/26/2007	8.46	5.32	NP	3.14	6900	2.6	<2.5	310	680	--	44	--	--	--	--	<1200	--	--
	12/27/2007	8.46	8.11	NP	0.35	5900	<2.5	<2.5	290	130	--	42	--	--	--	--	<1200	--	--
	3/26/2008	8.46	7.84	NP	0.62	3500	<2.5	<2.5	100	18	--	30	--	--	--	--	<1200	--	--
	6/18/2008	8.46	7.03	NP	1.43	8400	<5.0	<5.0	230	86	--	26	--	--	--	--	<2500	--	--
	9/24/2008	8.46	6.90	NP	1.56	6000	3.3	<2.5	170	86	--	78	--	--	--	--	<1200	--	--
	12/22/2008	8.46	7.69	NP	0.77	6400	0.64	<0.50	95	7.0	--	12	--	--	--	--	<250	--	--
	3/26/2009	8.46	7.55	NP	0.91	5700	<2.5	<2.5	72	6.5	--	10	--	--	--	--	<1200	--	--
	6/23/2009	8.46	6.80	NP	1.66	4,000	<2.5	<2.5	41	<0.50	--	10	--	--	--	--	<1200	--	--
	12/3/2009	8.46	7.30	NP	1.16	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/4/2009	--	--	--	--	8330	0.56	<0.50	13.5	1.6	--	10.9	<0.50	<0.50	<0.50	729	<250	<1.0	<1.0
	6/28/2010	8.46	6.71	NP	1.75	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/30/2010	--	--	--	--	7,090	<0.50	<0.50	2.1	2.2	--	5.1	<0.50	<0.50	<0.50	1110	<250	<1.0	<1.0
	12/20/2010	8.46	6.76	NP	1.70	6280	<0.50	<0.50	29.9	1.8	--	7.0	<0.50	<0.50	<0.50	391	<250	<1.0	<1.0
	6/3/2011	8.46	6.95	NP	1.51	6490	<0.50	<0.50	1.2	<1.5	--	6.1	<0.50	<0.50	<0.50	880	<250	<1.0	<1.0
	12/5/2011	14.24	7.25	NP	6.99	6190	<0.50	<0.50	1.1	<1.5	--	5.8	<0.50	<0.50	<0.50	872	<250	<1.0	<1.0
U-2	8/10/1990	NSVD	NG	NG	NG	780	27	46	15	130	--	--	--	--	--	--	--	--	--
	1/7/1991	NSVD	NG	NG	NG	1900	67	5.8	58	69	--	--	--	--	--	--	--	--	--
	4/1/1991	NSVD	NG	NG	NG	1700	250	89	34	190	--	--	--	--	--	--	--	--	--
	7/3/1991	NSVD	NG	NG	NG	2100	150	25	3.1	290	--	--	--	--	--	--	--	--	--
	10/9/1991	NSVD	NG	NG	NG	230	7.1	ND	ND	11	--	--	--	--	--	--	--	--	--
	2/12/1992	NSVD	NG	NG	NG	410	1.9	ND	0.36	0.4	--	--	--	--	--	--	--	--	--
	5/5/1992	NSVD	NG	NG	NG	1600	120	52	6.2	290	--	--	--	--	--	--	--	--	--
	6/11/1992	NSVD	NG	NG	NG	620	17	2.1	ND	37	--	--	--	--	--	--	--	--	--
	8/20/1992	NSVD	NG	NG	NG	700	28	6.5	1.3	4.6	--	--	--	--	--	--	--	--	--
	2/22/1993	NSVD	NG	NG	NG	3400	2400	2100	1200	5800	--	--	--	--	--	--	--	--	--
	5/7/1993	NSVD	NG	NG	NG	17000	1800	660	1700	4000	--	--	--	--	--	--	--	--	--
	8/8/1993	NSVD	NG	NG	NG	5600	420	ND	410	670	--	--	--	--	--				

TABLE 2
HISTORICAL GROUNDWATER GAUGING AND ANALYTICAL DATA
76 Service Station No. 5325
3200 LAKESHORE AVE
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 8021 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	Ethanol (ug/L)	1,2-Dibromoethane (EDB) (ug/L)
U-2	9/26/1996	7.62	7.90	NP	-0.28	5900	750	ND	ND	18000	--	--	--	--	--	--	--	--
	12/9/1996	7.62	6.76	NP	0.86	13000	5100	290	980	370	2700	--	--	--	--	--	--	--
	3/14/1997	7.62	7.11	0.02	0.53	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
	9/19/1997	7.62	7.30	NP	0.32	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
	3/3/1998	7.62	6.36	NP	1.26	80000	3000	1100	820	16000	16000	--	--	--	--	--	--	--
	6/15/1998	7.62	6.51	NP	1.11	48000	1800	330	470	7900	20000	--	--	--	--	--	--	--
	9/30/1998	7.62	7.17	NP	0.45	60000	1300	ND	500	9700	19000	--	--	--	--	--	--	--
	12/28/1998	7.62	7.05	NP	0.57	63000	590	160	320	5600	16000	--	--	--	--	--	--	--
	3/22/1999	7.62	6.82	NP	0.80	28000	1100	ND	360	2900	25000	--	--	--	--	--	--	--
	6/9/1999	7.62	7.51	NP	0.11	21000	110	190	310	2600	7900	7800	--	--	--	--	--	--
	9/8/1999	7.62	8.15	NP	-0.53	23300	477	138	286	4110	16400	15300	--	--	--	--	--	--
	12/7/1999	7.62	8.31	NP	-0.69	4840	17.2	ND	ND	157	14900	15600	--	--	--	--	--	--
	3/13/2000	7.62	6.69	NP	0.93	11000	380	160	ND	2100	22000	26000	--	--	--	--	--	--
	6/21/2000	7.62	7.67	NP	-0.05	9100	22	ND	ND	800	16000	22000	--	--	--	--	--	--
	9/27/2000	7.62	7.44	NP	0.18	2900	43	ND	ND	39	20000	26000	--	--	--	--	--	--
	12/12/2000	7.62	7.51	NP	0.11	3600	17	ND	ND	87	8000	7800	--	--	--	--	--	--
	3/7/2001	7.62	7.15	NP	0.47	1670	51.0	ND	7.20	19.5	5930	7900	ND	ND	ND	ND	ND	ND
	6/6/2001	7.62	7.57	NP	0.05	1100	14	ND	9.3	35	9200	10000	ND	ND	ND	ND	ND	ND
	9/24/2001	7.62	7.63	NP	-0.01	1000	25	<2.5	12	100	9800	11000	<1000	<1000	<1000	<20000	<400000	<1000
	12/10/2001	7.62	6.78	NP	0.84	83	14	0.55	3.4	6.8	2500	2500	<50	<50	<2000	<4000	<50	<50
	3/11/2002	7.62	7.11	NP	0.51	<1000	28	<10	40	31	11000	11000	<200	<200	<200	<10000	<50000	<200
	6/4/2002	7.62	7.17	NP	0.45	7700	32	<25	33	48	14000	--	--	--	--	--	--	--
	9/3/2002	7.62	7.57	NP	0.05	5200	<25	<25	<25	<25	11000	15000	<1000	<1000	<1000	<50000	<250000	<1000
	12/3/2002	7.62	7.67	NP	-0.05	<5000	<50	<50	<50	<100	--	3200	<200	<200	<200	<10000	<50000	<200
	3/4/2003	7.62	7.76	NP	-0.14	8100	<50	<50	<50	<100	--	7800	<200	<200	<200	<10000	<50000	<200
	6/18/2003	7.62	6.86	NP	0.76	11000	<50	<50	<50	<100	--	16000	<200	<200	<200	<10000	<50000	<200
	9/24/2003	7.62	7.48	NP	0.14	<10000	<100	<100	<100	<200	--	10000	<400	<400	<400	<20000	<100000	<400
	12/2/2003	7.62	7.94	NP	-0.32	<10000	<100	<100	<100	<200	--	10000	--	--	--	<100000	--	--
	3/30/2004	7.62	7.07	NP	0.55	12000	<100	<100	<100	<200	--	11000	<200	<100	<100	2400	<10000	<100
	6/7/2004	7.62	7.75	NP	-0.13	14000	<100	<100	<100	<200	--	13000	<200	<100	<100	2600	<10000	<100
	9/9/2004	7.62	8.64	NP	-1.02	<10000	<100	<100	<100	<200	--	9500	<200	<100	<100	2700	<10000	<100
	12/20/2004	7.62	7.73	NP	-0.11	<5000	<50	<50	<50	<100	--	11000	<100	<50	<50	3500	<5000	<50
	3/28/2005	7.62	6.23	NP	1.39	12000	<50	<50	160	120	--	7000	<50	<50	<0.50	830	<5000	<50
	6/14/2005	7.62	7.05	NP	0.57	2000	0.75	<0.50	3.7	1.1	--	2400	<20	<20	<20	10000	<2000	<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	13000	<250	<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	11000	<250	<0.50
	3/27/2006	7.62	5.30	NP	2.32	2400	31	0.73	120	15	--	1400	--	--	--	<250	--	--
	6/12/2006	7.62	6.25	NP	1.37	<1200	<12	<12	17	<25	--	490	--	--	--	<6200	--	--
	9/21/2006	7.62	6.00	NP	1.62	440	6.1	<0.50	1.7	<0.50	--	1100	--	--	--	<250	--	--
	12/21/2006	7.62	6.07	NP														

TABLE 2
HISTORICAL GROUNDWATER GAUGING AND ANALYTICAL DATA
76 Service Station No. 5325
3200 LAKESHORE AVE
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 8021 (ug/L)	MTBE 8260 (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	12/3/2009	7.62	5.18	NP	2.44	--	--	--	--	--	--	--	--	--	--	--	--	--	
	12/4/2009	--	--	--	--	7410	3.5	<0.50	105	8.5	--	83.4	<0.50	<0.50	<0.50	2420	<250	<1.0	<1.0
	6/28/2010	7.62	4.97	NP	2.65	--	--	--	--	--	--	--	--	--	--	--	--	--	
	6/30/2010	--	--	--	--	4900	0.64	<0.50	18.5	<1.5	--	55.9	<0.50	<0.50	0.53	3750	<250	<1.0	<1.0
	12/20/2010	7.62	4.21	NP	3.41	5510	0.66	<0.50	28.3	<1.5	--	50.7	<0.50	<0.50	<0.50	1090	<250	<1.0	<1.0
	6/3/2011	7.62	5.12	NP	2.50	3280	<0.50	<0.50	7.1	<1.5	--	33.8	<0.50	<0.50	<0.50	1310	<250	<1.0	<1.0
	12/5/2011	13.45	5.60	NP	7.85	4140	<0.50	<0.50	17.4	<1.5	--	17.0	<0.50	<0.50	<0.50	1040	<250	<1.0	<1.0
U-3	8/10/1990	NSVD	NG	NG	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	
	1/7/1991	NSVD	NG	NG	ND	ND	ND	1.8	--	--	--	--	--	--	--	--	--	--	
	4/1/1991	NSVD	NG	NG	ND	1.0	2.9	0.53	5.4	--	--	--	--	--	--	--	--	--	
	7/3/1991	NSVD	NG	NG	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	
	10/9/1991	NSVD	NG	NG	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	
	2/12/1992	NSVD	NG	NG	NG	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	
	5/5/1992	NSVD	NG	NG	NG	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	
	6/11/1992	NSVD	NG	NG	NG	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	
	8/20/1992	NSVD	NG	NG	NG	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	
	2/22/1993	NSVD	NG	NG	NG	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	
	5/7/1993	NSVD	NG	NG	NG	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	
	8/8/1993	NSVD	NG	NG	NG	210	5.0	9.7	0.7	4.1	--	--	--	--	--	--	--	--	
	11/16/1993	7.86	11.81	NP	-3.95	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	
	2/16/1994	7.86	11.61	NP	-3.75	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	
	6/22/1994	10.98	11.64	NP	-0.66	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	
	9/22/1994	10.98	11.76	NP	-0.78	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	
	12/24/1994	10.98	11.27	NP	-0.29	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	
	3/25/1995	10.98	10.96	NP	0.02	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	
	6/21/1995	10.98	11.36	NP	-0.38	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	
	9/19/1995	10.98	11.55	NP	-0.57	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	
	12/19/1995	10.98	11.44	NP	-0.46	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	
	3/18/1996	10.98	11.10	NP	-0.12	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	
	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	--	--	--	--	--	--	--	--	--	
	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	--	--	--	--	--	--	--	--	
	6/30/1997	10.98	11.07	NP	-0.09	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	
	9/19/1997	10.98	11.05	NP	-0.07	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	
	12/12/1997	10.98	10.57	NP	0.41	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	
	3/3/1998	10.98	9.84	NP	1.14	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	
	6/15/1998	10.98	10.56	NP	0.42	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	
	9/30/1998	10.98	11.11	NP	-0.13	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	
	12/28/1998	10.98	10.96	NP	0.02	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	
	3/22/1999	10.98	9.46	NP	1.52	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	
	6/9/1999	10.98	11.01	NP	-0.03	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	
	9/8/1999	10.98	11.31	NP	-0.33	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	
	12/7/1999	10.98	11.26	NP	-0.28	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	
	3/13/2000	10.98	8.27	NP	2.71	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	
	6/21/2000	10.98	11.11	NP	-0.13	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	
	9/27/2000	10.98	11.06	NP	-0.08	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	
	12/12/2000	10.98	10.93	NP	0.05	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	
	3/7/2001	10.98	8.31	NP	2.67	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	
	6/6/2001	10.98	10.93	NP	0.05	ND	ND	ND											

TABLE 2
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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 8021 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	Ethanol (ug/L)	1,2-Dibromoethane (EDB) (ug/L)
U-4	6/9/1999	11.15	9.39	NP	1.76	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
	9/8/1999	11.15	9.89	NP	1.26	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
	12/7/1999	11.15	10.05	NP	1.10	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
	3/13/2000	11.15	7.23	NP	3.92	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
	6/21/2000	11.15	9.47	NP	1.68	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
	9/27/2000	11.15	9.42	NP	1.73	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
	12/12/2000	11.15	9.50	NP	1.65	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
	3/7/2001	11.15	6.88	NP	4.27	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
	6/6/2001	11.15	9.18	NP	1.97	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
	9/24/2001	11.15	9.21	NP	1.94	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--	--	--	--	--	--
	12/10/2001	11.15	7.32	NP	3.83	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--	--	--	--	--	--
	3/11/2002	11.15	6.92	NP	4.23	<50	<0.50	<0.50	<0.50	<0.50	<5.0	--	--	--	--	--	--	--
	6/4/2002	11.15	7.57	NP	3.58	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--	--	--	--	--	--
	9/3/2002	11.15	9.17	NP	1.98	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--	--	--	--	--	--
	12/3/2002	11.15	9.19	NP	1.96	<50	<0.50	<0.50	<0.50	<1.0	--	<2.0	--	--	--	--	--	--
	3/4/2003	11.15	9.31	NP	1.84	<50	<0.50	<0.50	<0.50	<1.0	--	<2.0	--	--	--	--	--	--
	6/18/2003	11.15	7.65	NP	3.50	<50	<0.50	<0.50	<0.50	<1.0	--	<2.0	--	--	--	--	--	--
	9/24/2003	11.15	8.26	NP	2.89	<50	<0.50	<0.50	<0.50	<1.0	--	<2.0	--	--	--	<500	--	--
	12/2/2003	11.15	9.15	NP	2.00	<50	<0.50	<0.50	<0.50	<1.0	--	<2.0	--	--	--	<500	--	--
	3/30/2004	11.15	7.46	NP	3.69	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	<50	--	--
	6/7/2004	11.15	8.93	NP	2.22	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	<50	--	--
	9/9/2004	11.15	9.82	NP	1.33	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	<50	--	--
	12/20/2004	11.15	8.27	NP	2.88	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	<50	--	--
	3/28/2005	11.15	6.34	NP	4.81	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	<50	--	--
	6/14/2005	11.15	8.10	NP	3.05	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	<50	--	--
	9/28/2005	11.15	9.59	NP	1.56	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	<250	--	--
	12/29/2005	11.15	7.13	NP	4.02	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	<250	--	--
	3/27/2006	11.15	6.26	NP	4.89	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	<250	--	--
	6/12/2006	11.15	8.44	NP	2.71	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	<250	--	--
	9/21/2006	11.15	9.63	NP	1.52	<50	<0.50	<0.50	<0.50	<0.50	--	<0.50	--	--	--	<250	--	--
	12/21/2006	11.15	8.50	NP	2.65	<50	<0.50	<0.50	<0.50	<0.50	--	<0.50	--	--	--	<250	--	--
	3/28/2007	11.15	8.00	NP	3.15	<50	<0.50	<0.50	<0.50	<0.50	--	<0.50	--	--	--	<250	--	--
	6/27/2007	11.15	8.77	NP	2.38	<50	<0.50	<0.50	<0.50	<0.50	--	<0.50	--	--	--	<250	--	--
	9/26/2007	11.15	9.07	NP	2.08	<50	<0.50	<0.50	<0.50	<0.50	--	<0.50	--	--	--	<250	--	--
	12/27/2007	11.15	8.63	NP	2.52	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	<250	--	--
	3/26/2008	11.15	7.86	NP	3.29	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	<250	--	--
	6/18/2008	11.15	8.82	NP	2.33	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	<250	--	--
	9/24/2008	11.15	9.50	NP	1.65	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	<250	--	--
	12/22/2008	11.15	8.55	NP	2.60	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	<250	--	--
	3/26/2009	11.15	7.21	NP	3.94	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	<250	--	--
	6/23/2009	11.15	8.40	NP	2.75	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	<250	--	--
	12/3/2009	11.15	9.10	NP	2.05	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/4/2009	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	<0.50	<0.50	<0.50	<5.0	<250	<1.0

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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 8021 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	Ethanol (ug/L)	1,2-Dibromoethane (EDB) (ug/L)
U-5	6/21/1995	6.98	7.11	NP	-0.13	400	2.3	ND	9.1	3.5	--	--	--	--	--	--	--	--
	9/19/1995	6.98	6.98	NP	0.00	850	14	7.1	13	66	--	--	--	--	--	--	--	--
	12/19/1995	6.98	7.17	NP	-0.19	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
	3/18/1996	6.98	6.65	NP	0.33	100	0.67	0.5	0.51	5.4	--	--	--	--	--	--	--	--
	6/27/1996	6.98	6.48	NP	0.50	16000	280	150	1400	4600	530	--	--	--	--	--	--	--
	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	1300	29	46	ND	140	97	--	--	--	--	--	--	--
	3/14/1997	6.98	6.98	NP	0.00	ND	ND	ND	ND	14	--	--	--	--	--	--	--	--
	6/30/1997	6.98	7.07	NP	-0.09	4200	74	51	180	980	270	--	--	--	--	--	--	--
	9/19/1997	6.98	6.78	NP	0.20	6300	160	13	370	1000	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	1700	29	ND	150	190	330	--	--	--	--	--	--	--
	6/15/1998	6.98	6.84	NP	0.14	1500	32	ND	91	83	330	--	--	--	--	--	--	--
	9/30/1998	6.98	7.30	NP	-0.32	1700	44	ND	39	150	60	--	--	--	--	--	--	--
	12/28/1998	6.98	7.25	NP	-0.27	1400	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	1000	ND	ND	10	35	280	350	--	--	--	--	--	--
	9/8/1999	6.98	7.51	NP	-0.53	2620	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
	6/6/2001	6.98	7.42	NP	-0.44	110	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
	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
	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
	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
	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
	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
	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
	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
	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
	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
	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
	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
	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
	3/27/2006																	

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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 8021 (ug/L)	MTBE 8260 (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	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	--	--
	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
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	6900	500	59	600	380	--	--	--	--	--	--	--	--	--
	3/25/1995	7.14	6.28	NP	0.86	47000	450	1300	1700	8200	--	--	--	--	--	--	--	--	--
	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	1400	--	--	--	--	--	--	--	--
	12/9/1996	7.14	5.88	NP	1.26	1200	29	48	6.4	140	58	--	--	--	--	--	--	--	--
	3/14/1997	7.14	7.30	NP	-0.16	ND	ND	ND	ND	ND	1500	--	--	--	--	--	--	--	--
	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	1400	--	--	--	--	--	--	--	--
	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	1600	--	--	--	--	--	--	--	--
	6/15/1998	7.14	7.17	NP	-0.03	ND	ND	ND	ND	ND	1000	--	--	--	--	--	--	--	--
	9/30/1998	7.14	7.90	NP	-0.76	ND	ND	ND	ND	ND	1200	--	--	--	--	--	--	--	--
	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	1800	--	--	--	--	--	--	--	--
	6/9/1999	7.14	7.73	NP	-0.59	ND	ND	ND	ND	ND	1000	850	--	--	--	--	--	--	--
	9/8/1999	7.14	7.94	NP	-0.80	ND	ND	ND	ND	ND	851	1040	--	--	--	--	--	--	--
	12/7/1999	7.14	8.10	NP	-0.96	ND	ND	ND	ND	ND	1140	1150	--	--	--	--	--	--	--
	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	2500	2800	--	--	--	--	--	--	--
	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	&		

TABLE 2
HISTORICAL GROUNDWATER GAUGING AND ANALYTICAL DATA
76 Service Station No. 5325
3200 LAKESHORE AVE
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 8021 (ug/L)	MTBE 8260 (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	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	3800	<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	1100	<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
	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	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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)

NG - Not gauged

WI - Well Inaccessible

NSVD - Not surveyed

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 Hydrocarbon as gasoline

MTBE- Methyl tertiary-butyl ether

TBA- Tertiary-butyl alcohol

DIPE- Di-isopropyl ether

ETBE- Ethyl tertiary-butyl ether

TAME- Tertiary-amyl methyl ether

TABLE 3
Historical Groundwater Gradient and Flow Directions

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

TABLE 3
Historical Groundwater Gradient and Flow Directions

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

TABLE 3
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	6/14/2005	0.0300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
	9/28/2005	0.0100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
	12/29/2005	0.0400	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	1	0
	6/12/2006	0.0100	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
	12/21/2006	Varies	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	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
	9/26/2007	0.0200	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
	3/6/2008	0.0300	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
	9/24/2008	Varies	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
	3/26/2009	Varies	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
	12/3/2009	Varies	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
	6/28/2010	Varies	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
	6/3/2011	Varies	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
		0.024 Average	3	1	0	0	0	0	1	2	3	5	3	1	2	1	26	4

Explanation

NA = Not available

Number of Events = 78

Semi-Annual Summary Report, July through December 2011

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

Semi-Annual Summary Report, July through December 2011

76 Service Station No. 5325

Oakland, CA

Antea Group Project No. I40255325



Attachment B

Blaine Tech Services Groundwater Sampling Procedures

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

SAMPLING PROCEDURES OVERVIEW

SAFETY

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

INSPECTION AND GAUGING

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

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

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

EVACUATION

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

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

PARAMETER STABILIZATION

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

than once per case volume).

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

DEWATERED WELLS

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

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

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

PURGEWATER CONTAINMENT

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

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

SAMPLE COLLECTION DEVICES

All samples are collected using disposable bailers.

SAMPLE CONTAINERS

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

TRIP BLANKS

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

DUPLICATES

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

SAMPLE STORAGE

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

DOCUMENTATION CONVENTIONS

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

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

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

DECONTAMINATION

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

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

and bailers.

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

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

DISSOLVED OXYGEN READINGS

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

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

OXYIDATON REDUCTION POTENTIAL READINGS

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

Semi-Annual Summary Report, July through December 2011

76 Service Station No. 5325

Oakland, CA

Antea Group Project No. I40255325



Attachment C

Blaine Tech Services Groundwater Sampling Field Data Sheets

Well-Head Inspection & Well Gauging Form

Antea Group Project No: 255325

Site Address: 3200 Lakeshore Ave., Oakland

Field Technician: Corey Klapathin B-75
(Print Full Name & Company*)

Date: 12-15-11

Weather:

Notes:

** All well caps opened at least 15 minutes or longer before gauging wells:

CIRCLE ONE: YES or NO**



anteagroup

**Form provided by Antea Group*

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

Page 1 of 1

Groundwater Sampling Form

Site Address:	3200 LAKESHORE AVE, OAKLAND							
Project No:	255325	Field Technician:	CR					
Field Point:	V-1	Date:	12/5/11					
Depth to Water (DTW) (ft bgs):	7.25	Well Diameter (in):	2 4 6 8 (3)					
Depth to LNAPL (ft bgs):		Thickness of LNAPL (ft):						
Total Depth of Well (ft bgs):	13.50	Water Column Height (ft):	6.25					
Purging Info and Calculations								
Purge Method: Low-Flow 3 casing volumes Other: _____		Purge Equipment: Disposable Bailer Electric Submersible Peristaltic Pump Bladder Pump Other: _____			Sample Collection Method: Disposable Bailer w/BED Extraction Port Dedicated Tubing Disposable Tubing Other: _____			
Water Column Height (ft):	6.25	X Conversion Factor (gal/ft):	0.37	= Casing Volume (gal):	2.3			
Casing Volume (gal):	2.3	X Specified Volumes:	3	= Calculated Purge (gal):	6.9			
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								
12/11	20.1	6.94	936	-121.5	15	0.58	1.1	
12/12	20.3	6.99	935	-131.6	19	0.40	2.3	
12/13	20.4	7.04	987	-140.7	17	0.31	3.4	
12/14	20.6	7.06	1021	-142.6	15	0.28	4.6	
			WELL Dewatered @ 5.0 gallons				5.0	12.13
14/09	19.7	6.91	958	-100.2	6	1.18	—	
Post-Purge								
Did Well dewater?	Yes	No	Total Purge volume (gal): 5.0					
Other Comments:	80%: 4.50 *PURGED THROUGH FLOW CELL DTW: 7.71							
Sample Info:								
Sample ID:	V-1 - 20111231			Sample Date and Time:	12/5/11 14:10			
Selected Analysis:	SEE COC							
This form was provided by Antea Group and completed by: (Print Full Name)		Corey Kilkpatrick, an employee of Blaine Tech Services, Inc.						
Signature:				Date:		12/5/11		



Antea™ Group, 1-800-477-7411

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

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

Groundwater Sampling Form

Site Address:	3200 LAKESHORE AVE, OAKLAND							
Project No:	255325	Field Technician:	Cle					
Field Point:	V-2	Date:	12/5/11					
Depth to Water (DTW) (ft bgs):	5.60	Well Diameter (in):	2 4 6 8 (3)					
Depth to LNAPL (ft bgs):		Thickness of LNAPL (ft):						
Total Depth of Well (ft bgs):	19.72	Water Column Height (ft):	14.12					
Purging Info and Calculations								
Purge Method:	Purge Equipment:			Sample Collection Method:				
Low-Flow 3 casing volumes	Disposable Bailer	Electric Submersible	Peristaltic Pump	Disposable Bailer	w/BED			
Other:	Bladder Pump	Other:	Other:	Dedicated Tubing	Disposable Tubing			
Water Column Height (ft): 14.12	X Conversion Factor (gal/ft): 0.37	= Casing Volume (gal): 5.2						
Casing Volume (gal): 5.2	X Specified Volumes: 3	= Calculated Purge (gal): 15.6						
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				—	—	—		
1157	20.8	7.09	1222	-147.5	17	0.51	2.6	
1158	20.8	7.10	1277	-143.1	40	0.63	5.2	
1159	21.1	7.16	1466	-147.7	23	0.41	7.8	
	NEW	DEWATERED	@ 8 gallon				8.0	18.50
1350	20.4	7.25	1435	-28.4	12	2.57	—	
Post-Purge				—	—	—		
Did Well dewater?	Yes	No	Total Purge volume (gal): 8.0					
Other Comments:	80%: 8.42 *PURGED THROUGH FLOW CELL DTW: 15.51 (2 hrs)							
Sample Info:								
Sample ID:	V-2 - 20111231		Sample Date and Time:	12/5/11 1400				
Selected Analysis:	SEE COC							
This form was provided by Antea Group and completed by: (Print Full Name) <u>Corey Kupatuck</u> , an employee of Blaine Tech Services, Inc.								
Signature:			Date:	12/5/11				

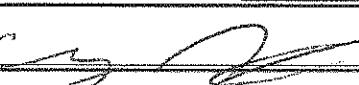


Antea™ Group, 1-800-477-7411

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 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							
Project No:	255325	Field Technician:	CR					
Field Point:	V-3	Date:	12/5/11					
Depth to Water (DTW) (ft bgs):	10.59	Well Diameter (in):	2 4 6 8 (3)					
Depth to LNAPL (ft bgs):		Thickness of LNAPL (ft):						
Total Depth of Well (ft bgs):	19.30	Water Column Height (ft):	8.71					
Purging Info and Calculations:								
Purge Method: Low-Flow 3 casing volumes		Purge Equipment: Disposable Bailer Electric Submersible Peristaltic Pump Bladder Pump			Sample Collection Method: Disposable Bailer w/BED Extraction Port Dedicated Tubing Disposable Tubing			
Other:		Other:			Other:			
Water Column Height (ft):	8.71	X Conversion Factor (gal/ft):	0.37	= Casing Volume (gal):	3.2			
Casing Volume (gal):	3.2	X Specified Volumes:	3	= Calculated Purge (gal):	9.6			
Conversion Factors (gal/ft):	2" = 0.17 4" = 0.66 6" = 1.5 8" = 2.6	Other = radius ² * 0.163	7 = 0.37					
Purge:	Start Time:			Stop Time:				
Time	Temp (°C)	pH	Conductivity (µS/cm)	ORP (mV)	Turbidity (NTU)	D.O. (mg/L)	Volume Purged (gal)	
Pre-Purge				—	—	—		
11:06	19.4	7.05	861	94.3	9	1.20	1.6	
11:08	19.6	6.96	865	90.6	35	0.72	3.2	
11:10	19.9	7.02	869	87.1	47	1.15	4.8	
	WELL Dewatered @		5 gallons				5.0	
							19.16	
13:15	19.9	7.35	842	40.4	15	1.50	—	
Post-Purge								
Did Well dewater?	Yes	No	Total Purge volume (gal): 5.0					
Other Comments:	80%: 12.33 *PURGED THROUGH FLOW CELL DTW: 10.78							
Sample Info:								
Sample ID:	V-3 - 20111231			Sample Date and Time: 12/5/11 1320				
Selected Analysis:	SEE COC							
This form was provided by Antea Group and completed by: (Print Full Name) <u>Corey Kumpf</u> , an employee of Blaine Tech Services, Inc.								
Signature:				Date: 12/5/11				

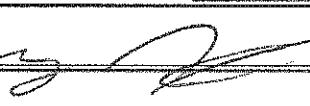


Antea™ Group, 1-800-477-7411

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 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							
Project No:	265325	Field Technician:	CR					
Field Point:	V-4	Date:	12/5/11					
Depth to Water (DTW) (ft bgs):	3.98	Well Diameter (in):	2 4 6 8					
Depth to LNAPL (ft bgs):		Thickness of LNAPL (ft):						
Total Depth of Well (ft bgs):	19.48	Water Column Height (ft):	10.50					
Purging Info and Calculations								
Purge Method: Low-Flow <u>3 casing volumes</u> Other: _____		Purge Equipment: Disposable Bailer Electric Submersible Peristaltic Pump Bladder Pump Other: _____			Sample Collection Method: Disposable Bailer w/BED Extraction Port Dedicated Tubing Disposable Tubing Other: _____			
Water Column Height (ft): 10.50		X Conversion Factor (gal/ft): 0.66			= Casing Volume (gal): 6.9			
Casing Volume (gal): 6.9		X Specified Volumes: 3			= Calculated Purge (gal): 20.7			
Conversion Factors (gal/ft): 2" = 0.17 4" = 0.66 6" = 1.5 8" = 2.6 Other = radius ² * 0.163								
Purge:	Start Time:			Stop Time:				
Time	Temp (°C)	pH	Conductivity (µS/cm)	ORP (mV)	Turbidity (NTU)	D.O. (mg/L)	Volume Purged (gal)	Water Level (for Low-Flow only)
Pre-Purge				—	—	—		
1037	21.1	7.12	943	112.6	16	3.89	3.5	
1039	21.6	7.15	956	110.0	3	1.98	7.0	
1041	21.6	7.17	965	108.6	2	1.77	10.5	
1043	21.5	7.20	958	105.5	1	1.65	14.0	
1045	21.3	7.24	970	102.9	3	1.44	17.5	
	WELL DEWATERED @ 10 gal							18.65
1048	19.6	7.56	942	35.2	9	5.07	—	
Post-Purge				—	—	—		
Did Well dewater?	<input checked="" type="checkbox"/> Yes	No	Total Purge volume (gal): 10.0					
Other Comments:	80%: 11.08 *PURGED THROUGH FLOW CELL DTW: 16.18 (2HR) *# MS/MS TAKEN							
Sample Info:								
Sample ID:	V-4 - 20111231		Sample Date and Time: 12/5/11 1305					
Selected Analysis:	SEE COC							
This form was provided by Antea Group and completed by: (Print Full Name)		Corey Kupatich, an employee of Blaine Tech Services, Inc.						
Signature:				Date: 12/5/11				



Antea™ Group, 1-800-477-7411

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 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							
Project No:	265325	Field Technician:	CR					
Field Point:	V-5	Date:	12/5/11					
Depth to Water (DTW) (ft bgs):	5.83	Well Diameter (in):	2 4 6 8					
Depth to LNAPL (ft bgs):		Thickness of LNAPL (ft):						
Total Depth of Well (ft bgs):	19.96	Water Column Height (ft):	14.13					
Purging Info and Calculations								
Purge Method: Low-Flow <u>3 casing volumes</u> Other: _____	Purge Equipment: Disposable Bailer Electric Submersible Peristaltic Pump Bladder Pump Other: _____			Sample Collection Method: Disposable Bailer w/BED Extraction Port Dedicated Tubing Disposable Tubing Other: _____				
Water Column Height (ft): 14.13	X Conversion Factor (gal/ft): 0.66	= Casing Volume (gal): 9.3						
Casing Volume (gal): 9.3	X Specified Volumes: 3	= Calculated Purge (gal): 27.9						
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						—		
1138	20.0	7.05	908	-115.0	13	0.48	5.0	
1140	20.1	7.11	819	-130.8	8	0.30	9.5	
1142	20.4	7.12	843	-140.3	5	0.23	14.5	
1144	20.5	7.14	1322	-144.4	11	0.27	19.0	
1146	20.2	7.16	1410	-147.4	28	0.28	24.0	
	well	de-watered @		25.0 gallons			25.0	19.10
1338	19.6	7.27	1496	-68.1	7	1.97	—	
Post-Purge				—	—	—		
Did Well dewater?	Yes	No	Total Purge volume (gal): 25.0					
Other Comments:	80%: 8.66 *PURGED THROUGH FLOW CELL DTW: 9.60							
Sample Info:								
Sample ID:	V-5 - 20111231		Sample Date and Time: 12/5/11 1340					
Selected Analysis:	see coc							
This form was provided by Antea Group and completed by: (Print Full Name) <u>Corey Kivariuk</u> , an employee of Blaine Tech Services, Inc.								
Signature:			Date: 12/5/11					

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 bgs = below ground surface
 ORP = Oxidation-Reduction Potential
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gal = gallon/s
 temp = temperature
 NTU = Nephelometric Turbidity Units
 mV = millivolts



Groundwater Sampling Form

Site Address:	3200 LAKESHORE AVE, OAKLAND								
Project No:	255325	Field Technician:	CR						
Field Point:	U-6	Date:	12/5/11						
Depth to Water (DTW) (ft bgs):	5.35	Well Diameter (in):	2 4 6 8						
Depth to LNAPL (ft bgs):		Thickness of LNAPL (ft):							
Total Depth of Well (ft bgs):	22.25	Water Column Height (ft):							
Purging Info and Calculations									
Purge Method: Low-Flow 3 casing volumes Other: _____	Purge Equipment: Disposable Bailer Electric Submersible Peristaltic Pump Bladder Pump Other: _____	Sample Collection Method: Disposable Bailer w/BED Extraction Port Dedicated Tubing Disposable Tubing Other: _____							
Water Column Height (ft): _____	X Conversion Factor (gal/ft): _____	= Casing Volume (gal): _____							
Casing Volume (gal): _____	X Specified Volumes: 3	= Calculated Purge (gal): _____							
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									
* CAR PARKED ON WELL - NO ACCESS TO PURGE									
NO PARKING SIGN REMOVED FROM SPACE									
* NO SAMPLE TAKEN									
Post-Purge									
Did Well dewater?	Yes	No	Total Purge volume (gal):						
Other Comments:	* PURGED THROUGH FLOW CELL 80%: DTW:								
Sample Info:									
Sample ID:	U- - 20111231			Sample Date and Time: 12/5/11					
Selected Analysis:	SEE COC								
This form was provided by Antea Group and completed by: (Print Full Name) <u>Corey Kumpf</u> , an employee of Blaine Tech Services, Inc.									
Signature:	<u>Corey Kumpf</u>			Date: 12/5/11					



Antea™ Group, 1-800-477-7411

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

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



COP ELT CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of
Cooler # _____ of _____

COPY

4Q11 GW Event

Required Lab Information:

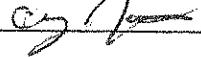
Required Project Information:

Required Invoice Information:

Lab Name:	Pace-Seattle	Site ID #:	255325	Task:	WG_Q_201112	Send Invoice to:	Tara Bosch	Turn around time (days)	10
Address:		AnteaGrp proj#				Address:	11050 White Rock Road, Suite 110	QC level Required:	Standard
940 S. Harney Street Seattle WA 98108		Site Address	3200 LAKESHORE AVE			City/State	Rancho Cordova CA 95670	Phone #:	1-800-477-7411
Lab PM:	Regina Ste. Marie	City	OAKLAND	State	CA 94610	Reimbursement project?		Non-reimbursement project?	Y
Phone/Fax:	P: 206-957-2433 F: 206-767-5063	AG PM Name:	Dennis Dettloff			Mark one		NJ Reduced Deliverable Package?	
Lab PM email	Regina.SteMarie@pacelabs.com	Phone/Fax:	P: 1-800-477-7411 F: 408-225-8506					MA MCP Cert?	CT RCP Cert?
Applicable Lab Quote #:		AG PM Email:	Dennis.dettloff@anteagroup.com			CC Hardcopy report to			Mark One
						CC Hardcopy report to			

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / -) Samples IDs MUST BE UNIQUE	Valid Matrix Codes		MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	SAMPLE DATE	SAMPLE TIME	# OF CONTAINERS	FIELD FILTERED? (Y/N)	Preservatives						Comments/Lab Sample I.D.	
		MATRIX	MATRIX							HgSO ₄	HNO ₃	HCl	NaOH	Na ₂ SO ₃	Methanol	Other	
1	U-1_20111231	WG	1410			12/5/11		6	Y	X							X X
2	U-2_20111231	WG	1400					6	Y	X							X X
3	U-3_20111231	WG	1320					6	N		X						X X
4	U-4_20111231	WG	1305					10	N		X						X X
5	U-5_20111231	WG	1340					6	N		X						X X
6	U-6_20111231	WG															X X
7	TB1_20111231	W	0630			12/5/11		4	N		X						X X
8																	
9																	
10																	
11																	
12																	

Additional Comments/Special Instructions:

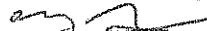
RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	Sample Receipt Conditions
 B7S	12/5/11	1815				Y/N Y/N Y/N
						Y/N Y/N Y/N
						Y/N Y/N Y/N
						Y/N Y/N Y/N

Global ID: T0600101463

SHIPPING METHOD: (mark as appropriate)

UPS COURIER FEDEX PRINT Name of SAMPLER:US MAIL

SIGNATURE of SAMPLER:



DATE Signed

12/5/11

Time: 14:30

Temp in °C _____
 Samples on Ice? _____
 Sample Intact? _____
 Trip Blank? _____

TEST EQUIPMENT CALIBRATION LOG

Semi-Annual Summary Report, July through December 2011

76 Service Station No. 5325

Oakland, CA

Antea Group Project No. I40255325



Attachment D

Certified Laboratory Analytical Report and Data Validation Form

December 21, 2011

Dennis Dettloff
Antea USA
11050 White Rock Rd. #110
Rancho Cordova, CA 95670

RE: Project: 255325
Pace Project No.: 2510230

Dear Dennis Dettloff:

Enclosed are the analytical results for sample(s) received by the laboratory on December 07, 2011. 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,



Regina SteMarie

regina.stemarie@pacelabs.com
Project Manager

Enclosures

cc: Tara Bosch, Antea USA
Jonathon Fillingame, Antea USA
Lia Holden, Antea USA
Dan Keltner, Antea USA
Josh Mahoney, Antea USA
Tony Perini, Antea USA
Nicole Persaud, Antea USA
Don Pinkerton, Antea USA
Doug Umland, Antea USA
Ed Weyrens, Antea USA



REPORT OF LABORATORY ANALYSIS

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Page 1 of 18

CERTIFICATIONS

Project: 255325
Pace Project No.: 2510230

Washington Certification IDs

940 South Harney Street, Seattle, WA 98108
Alaska CS Certification #: UST-025
Arizona Certification #: AZ0770
California Certification #: 01153CA

Florida/NELAP Certification #: E87617
Oregon Certification #: WA200007
Washington Certification #: C555

REPORT OF LABORATORY ANALYSIS

Page 2 of 18

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SAMPLE ANALYTE COUNT

Project: 255325
Pace Project No.: 2510230

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
2510230001	U-1_20111231	EPA 5030B/8260	ERB	16	PASI-S
		CA LUFT	ERB	2	PASI-S
2510230002	U-2_20111231	EPA 5030B/8260	ERB	16	PASI-S
		CA LUFT	ERB	2	PASI-S
2510230003	U-3_20111231	EPA 5030B/8260	LPM	16	PASI-S
		CA LUFT	ERB	2	PASI-S
2510230004	U-4_20111231	EPA 5030B/8260	ERB	16	PASI-S
		CA LUFT	ERB	2	PASI-S
2510230005	U-5_20111231	EPA 5030B/8260	ERB	16	PASI-S
		CA LUFT	ERB	2	PASI-S
2510230006	TB1_20111231	EPA 5030B/8260	ERB	16	PASI-S
		CA LUFT	ERB	2	PASI-S

REPORT OF LABORATORY ANALYSIS

Page 3 of 18

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HITS ONLY

Project: 255325
Pace Project No.: 2510230

Lab Sample ID	Client Sample ID						
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers	
2510230001	U-1_20111231						
EPA 5030B/8260	tert-Butyl Alcohol	872	ug/L	5.0	12/15/11 00:04		
EPA 5030B/8260	Ethylbenzene	1.1	ug/L	0.50	12/15/11 00:04		
EPA 5030B/8260	Methyl-tert-butyl ether	5.8	ug/L	0.50	12/15/11 00:04		
CA LUFT	TPH-Gasoline (C05-C12)	6190	ug/L	50.0	12/13/11 08:38		
2510230002	U-2_20111231						
EPA 5030B/8260	tert-Butyl Alcohol	1040	ug/L	5.0	12/15/11 00:21		
EPA 5030B/8260	Ethylbenzene	17.4	ug/L	0.50	12/15/11 00:21		
EPA 5030B/8260	Methyl-tert-butyl ether	17.0	ug/L	0.50	12/15/11 00:21		
CA LUFT	TPH-Gasoline (C05-C12)	4140	ug/L	50.0	12/15/11 00:21		
2510230003	U-3_20111231						
EPA 5030B/8260	Methyl-tert-butyl ether	1.4	ug/L	0.50	12/19/11 12:07		
2510230005	U-5_20111231						
EPA 5030B/8260	tert-Butyl Alcohol	86.6	ug/L	5.0	12/13/11 09:45		
EPA 5030B/8260	Methyl-tert-butyl ether	3.8	ug/L	0.50	12/13/11 09:45		
CA LUFT	TPH-Gasoline (C05-C12)	279	ug/L	50.0	12/13/11 09:45		

REPORT OF LABORATORY ANALYSIS

Page 4 of 18

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ANALYTICAL RESULTS

Project: 255325
Pace Project No.: 2510230

Sample: U-1_20111231	Lab ID: 2510230001	Collected: 12/05/11 14:10	Received: 12/07/11 09:27	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
tert-Amylmethyl ether	ND ug/L		0.50	1		12/15/11 00:04	994-05-8	
Benzene	ND ug/L		0.50	1		12/15/11 00:04	71-43-2	
tert-Butyl Alcohol	872 ug/L		5.0	1		12/15/11 00:04	75-65-0	
1,2-Dibromoethane (EDB)	ND ug/L		1.0	1		12/15/11 00:04	106-93-4	
1,2-Dichloroethane	ND ug/L		1.0	1		12/15/11 00:04	107-06-2	
Diisopropyl ether	ND ug/L		0.50	1		12/15/11 00:04	108-20-3	
Ethanol	ND ug/L		250	1		12/15/11 00:04	64-17-5	
Ethylbenzene	1.1 ug/L		0.50	1		12/15/11 00:04	100-41-4	
Ethyl-tert-butyl ether	ND ug/L		0.50	1		12/15/11 00:04	637-92-3	
Methyl-tert-butyl ether	5.8 ug/L		0.50	1		12/15/11 00:04	1634-04-4	
Toluene	ND ug/L		0.50	1		12/15/11 00:04	108-88-3	
Xylene (Total)	ND ug/L		1.5	1		12/15/11 00:04	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	111 %		79-121	1		12/15/11 00:04	460-00-4	
Dibromofluoromethane (S)	94 %		81-119	1		12/15/11 00:04	1868-53-7	
1,2-Dichloroethane-d4 (S)	90 %		72-127	1		12/15/11 00:04	17060-07-0	
Toluene-d8 (S)	108 %		77-120	1		12/15/11 00:04	2037-26-5	
CA LUFT MSV GRO	Analytical Method: CA LUFT							
TPH-Gasoline (C05-C12)	6190 ug/L		50.0	1		12/13/11 08:38		
Surrogates								
4-Bromofluorobenzene (S)	108 %		76-121	1		12/13/11 08:38	460-00-4	
Sample: U-2_20111231	Lab ID: 2510230002	Collected: 12/05/11 14:00	Received: 12/07/11 09:27	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
tert-Amylmethyl ether	ND ug/L		0.50	1		12/15/11 00:21	994-05-8	
Benzene	ND ug/L		0.50	1		12/15/11 00:21	71-43-2	
tert-Butyl Alcohol	1040 ug/L		5.0	1		12/15/11 00:21	75-65-0	
1,2-Dibromoethane (EDB)	ND ug/L		1.0	1		12/15/11 00:21	106-93-4	
1,2-Dichloroethane	ND ug/L		1.0	1		12/15/11 00:21	107-06-2	
Diisopropyl ether	ND ug/L		0.50	1		12/15/11 00:21	108-20-3	
Ethanol	ND ug/L		250	1		12/15/11 00:21	64-17-5	
Ethylbenzene	17.4 ug/L		0.50	1		12/15/11 00:21	100-41-4	
Ethyl-tert-butyl ether	ND ug/L		0.50	1		12/15/11 00:21	637-92-3	
Methyl-tert-butyl ether	17.0 ug/L		0.50	1		12/15/11 00:21	1634-04-4	
Toluene	ND ug/L		0.50	1		12/15/11 00:21	108-88-3	
Xylene (Total)	ND ug/L		1.5	1		12/15/11 00:21	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	113 %		79-121	1		12/15/11 00:21	460-00-4	
Dibromofluoromethane (S)	94 %		81-119	1		12/15/11 00:21	1868-53-7	
1,2-Dichloroethane-d4 (S)	93 %		72-127	1		12/15/11 00:21	17060-07-0	
Toluene-d8 (S)	108 %		77-120	1		12/15/11 00:21	2037-26-5	

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ANALYTICAL RESULTS

Project: 255325
Pace Project No.: 2510230

Sample: U-2_20111231	Lab ID: 2510230002	Collected: 12/05/11 14:00	Received: 12/07/11 09:27	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
CA LUFT MSV GRO	Analytical Method: CA LUFT							
TPH-Gasoline (C05-C12)	4140 ug/L		50.0	1		12/15/11 00:21		
Surrogates								
4-Bromofluorobenzene (S)	113 %		76-121	1		12/15/11 00:21	460-00-4	
Sample: U-3_20111231	Lab ID: 2510230003	Collected: 12/05/11 13:20	Received: 12/07/11 09:27	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
tert-Amylmethyl ether	ND ug/L		0.50	1		12/19/11 12:07	994-05-8	
Benzene	ND ug/L		0.50	1		12/19/11 12:07	71-43-2	
tert-Butyl Alcohol	ND ug/L		5.0	1		12/19/11 12:07	75-65-0	
1,2-Dibromoethane (EDB)	ND ug/L		1.0	1		12/19/11 12:07	106-93-4	
1,2-Dichloroethane	ND ug/L		1.0	1		12/19/11 12:07	107-06-2	
Diisopropyl ether	ND ug/L		0.50	1		12/19/11 12:07	108-20-3	
Ethanol	ND ug/L		250	1		12/19/11 12:07	64-17-5	
Ethylbenzene	ND ug/L		0.50	1		12/19/11 12:07	100-41-4	
Ethyl-tert-butyl ether	ND ug/L		0.50	1		12/19/11 12:07	637-92-3	
Methyl-tert-butyl ether	1.4 ug/L		0.50	1		12/19/11 12:07	1634-04-4	
Toluene	ND ug/L		0.50	1		12/19/11 12:07	108-88-3	
Xylene (Total)	ND ug/L		1.5	1		12/19/11 12:07	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	103 %		79-121	1		12/19/11 12:07	460-00-4	
Dibromofluoromethane (S)	104 %		81-119	1		12/19/11 12:07	1868-53-7	
1,2-Dichloroethane-d4 (S)	109 %		72-127	1		12/19/11 12:07	17060-07-0	
Toluene-d8 (S)	97 %		77-120	1		12/19/11 12:07	2037-26-5	
CA LUFT MSV GRO	Analytical Method: CA LUFT							
TPH-Gasoline (C05-C12)	ND ug/L		50.0	1		12/13/11 09:12		
Surrogates								
4-Bromofluorobenzene (S)	115 %		76-121	1		12/13/11 09:12	460-00-4	
Sample: U-4_20111231	Lab ID: 2510230004	Collected: 12/05/11 13:05	Received: 12/07/11 09:27	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
tert-Amylmethyl ether	ND ug/L		0.50	1		12/15/11 00:37	994-05-8	
Benzene	ND ug/L		0.50	1		12/15/11 00:37	71-43-2	
tert-Butyl Alcohol	ND ug/L		5.0	1		12/15/11 00:37	75-65-0	
1,2-Dibromoethane (EDB)	ND ug/L		1.0	1		12/15/11 00:37	106-93-4	
1,2-Dichloroethane	ND ug/L		1.0	1		12/15/11 00:37	107-06-2	
Diisopropyl ether	ND ug/L		0.50	1		12/15/11 00:37	108-20-3	
Ethanol	ND ug/L		250	1		12/15/11 00:37	64-17-5	
Ethylbenzene	ND ug/L		0.50	1		12/15/11 00:37	100-41-4	

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ANALYTICAL RESULTS

Project: 255325
Pace Project No.: 2510230

Sample: U-4_20111231	Lab ID: 2510230004	Collected: 12/05/11 13:05	Received: 12/07/11 09:27	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Ethyl-tert-butyl ether	ND ug/L		0.50	1		12/15/11 00:37	637-92-3	
Methyl-tert-butyl ether	ND ug/L		0.50	1		12/15/11 00:37	1634-04-4	
Toluene	ND ug/L		0.50	1		12/15/11 00:37	108-88-3	
Xylene (Total)	ND ug/L		1.5	1		12/15/11 00:37	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	120 %		79-121	1		12/15/11 00:37	460-00-4	
Dibromofluoromethane (S)	93 %		81-119	1		12/15/11 00:37	1868-53-7	
1,2-Dichloroethane-d4 (S)	92 %		72-127	1		12/15/11 00:37	17060-07-0	
Toluene-d8 (S)	107 %		77-120	1		12/15/11 00:37	2037-26-5	
CA LUFT MSV GRO	Analytical Method: CA LUFT							
TPH-Gasoline (C05-C12)	ND ug/L		50.0	1		12/13/11 09:29		
Surrogates								
4-Bromofluorobenzene (S)	116 %		76-121	1		12/13/11 09:29	460-00-4	
Sample: U-5_20111231	Lab ID: 2510230005	Collected: 12/05/11 13:40	Received: 12/07/11 09:27	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
tert-Amylmethyl ether	ND ug/L		0.50	1		12/13/11 09:45	994-05-8	
Benzene	ND ug/L		0.50	1		12/13/11 09:45	71-43-2	
tert-Butyl Alcohol	86.6 ug/L		5.0	1		12/13/11 09:45	75-65-0	
1,2-Dibromoethane (EDB)	ND ug/L		1.0	1		12/13/11 09:45	106-93-4	
1,2-Dichloroethane	ND ug/L		1.0	1		12/13/11 09:45	107-06-2	
Diisopropyl ether	ND ug/L		0.50	1		12/13/11 09:45	108-20-3	
Ethanol	ND ug/L		250	1		12/13/11 09:45	64-17-5	
Ethylbenzene	ND ug/L		0.50	1		12/13/11 09:45	100-41-4	
Ethyl-tert-butyl ether	ND ug/L		0.50	1		12/13/11 09:45	637-92-3	
Methyl-tert-butyl ether	3.8 ug/L		0.50	1		12/13/11 09:45	1634-04-4	
Toluene	ND ug/L		0.50	1		12/13/11 09:45	108-88-3	
Xylene (Total)	ND ug/L		1.5	1		12/13/11 09:45	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	111 %		79-121	1		12/13/11 09:45	460-00-4	
Dibromofluoromethane (S)	97 %		81-119	1		12/13/11 09:45	1868-53-7	
1,2-Dichloroethane-d4 (S)	91 %		72-127	1		12/13/11 09:45	17060-07-0	
Toluene-d8 (S)	107 %		77-120	1		12/13/11 09:45	2037-26-5	
CA LUFT MSV GRO	Analytical Method: CA LUFT							
TPH-Gasoline (C05-C12)	279 ug/L		50.0	1		12/13/11 09:45		
Surrogates								
4-Bromofluorobenzene (S)	111 %		76-121	1		12/13/11 09:45	460-00-4	

ANALYTICAL RESULTS

Project: 255325
Pace Project No.: 2510230

Sample: TB1_20111231	Lab ID: 2510230006	Collected: 12/05/11 06:30	Received: 12/07/11 09:27	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
tert-Amylmethyl ether	ND ug/L		0.50	1		12/13/11 06:40	994-05-8	
Benzene	ND ug/L		0.50	1		12/13/11 06:40	71-43-2	
tert-Butyl Alcohol	ND ug/L		5.0	1		12/13/11 06:40	75-65-0	
1,2-Dibromoethane (EDB)	ND ug/L		1.0	1		12/13/11 06:40	106-93-4	
1,2-Dichloroethane	ND ug/L		1.0	1		12/13/11 06:40	107-06-2	
Diisopropyl ether	ND ug/L		0.50	1		12/13/11 06:40	108-20-3	
Ethanol	ND ug/L		250	1		12/13/11 06:40	64-17-5	
Ethylbenzene	ND ug/L		0.50	1		12/13/11 06:40	100-41-4	
Ethyl-tert-butyl ether	ND ug/L		0.50	1		12/13/11 06:40	637-92-3	
Methyl-tert-butyl ether	ND ug/L		0.50	1		12/13/11 06:40	1634-04-4	
Toluene	ND ug/L		0.50	1		12/13/11 06:40	108-88-3	
Xylene (Total)	ND ug/L		1.5	1		12/13/11 06:40	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	113 %		79-121	1		12/13/11 06:40	460-00-4	
Dibromofluoromethane (S)	99 %		81-119	1		12/13/11 06:40	1868-53-7	
1,2-Dichloroethane-d4 (S)	95 %		72-127	1		12/13/11 06:40	17060-07-0	
Toluene-d8 (S)	101 %		77-120	1		12/13/11 06:40	2037-26-5	
CA LUFT MSV GRO	Analytical Method: CA LUFT							
TPH-Gasoline (C05-C12)	ND ug/L		50.0	1		12/13/11 06:40		
Surrogates								
4-Bromofluorobenzene (S)	113 %		76-121	1		12/13/11 06:40	460-00-4	

QUALITY CONTROL DATA

Project: 255325

Pace Project No.: 2510230

QC Batch:	MSV/6016	Analysis Method:	EPA 5030B/8260
QC Batch Method:	EPA 5030B/8260	Analysis Description:	8260 MSV Water 10 mL Purge
Associated Lab Samples:	2510230005, 2510230006		

METHOD BLANK: 97087	Matrix: Water
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Associated Lab Samples: 2510230005, 2510230006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	12/13/11 06:06	
1,2-Dichloroethane	ug/L	ND	1.0	12/13/11 06:06	
Benzene	ug/L	ND	0.50	12/13/11 06:06	
Diisopropyl ether	ug/L	ND	0.50	12/13/11 06:06	
Ethanol	ug/L	ND	250	12/13/11 06:06	
Ethyl-tert-butyl ether	ug/L	ND	0.50	12/13/11 06:06	
Ethylbenzene	ug/L	ND	0.50	12/13/11 06:06	
Methyl-tert-butyl ether	ug/L	ND	0.50	12/13/11 06:06	
tert-Amyl methyl ether	ug/L	ND	0.50	12/13/11 06:06	
tert-Butyl Alcohol	ug/L	ND	5.0	12/13/11 06:06	
Toluene	ug/L	ND	0.50	12/13/11 06:06	
Xylene (Total)	ug/L	ND	1.5	12/13/11 06:06	
1,2-Dichloroethane-d4 (S)	%	99	72-127	12/13/11 06:06	
4-Bromofluorobenzene (S)	%	113	79-121	12/13/11 06:06	
Dibromofluoromethane (S)	%	97	81-119	12/13/11 06:06	
Toluene-d8 (S)	%	104	77-120	12/13/11 06:06	

LABORATORY CONTROL SAMPLE: 97088

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	20	18.1	90	65-123	
1,2-Dichloroethane	ug/L	20	18.0	90	63-131	
Benzene	ug/L	20	19.0	95	66-123	
Diisopropyl ether	ug/L	20	20.9	104	70-136	
Ethanol	ug/L	800	794	99	40-160	
Ethyl-tert-butyl ether	ug/L	20	18.2	91	65-135	
Ethylbenzene	ug/L	20	18.2	91	67-122	
Methyl-tert-butyl ether	ug/L	20	19.4	97	65-138	
tert-Amyl methyl ether	ug/L	20	17.6	88	68-138	
tert-Butyl Alcohol	ug/L	100	98.5	98	57-153	
Toluene	ug/L	20	18.1	90	64-118	
Xylene (Total)	ug/L	60	54.8	91	68-122	
1,2-Dichloroethane-d4 (S)	%			95	72-127	
4-Bromofluorobenzene (S)	%			106	79-121	
Dibromofluoromethane (S)	%			98	81-119	
Toluene-d8 (S)	%			105	77-120	

QUALITY CONTROL DATA

Project: 255325
Pace Project No.: 2510230

Parameter	Units	Result	MS	MSD	MS	MSD	MS	MSD	% Rec	MSD % Rec	% Rec	RPD	Qual
			Spike Conc.	Spike Conc.									
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	23.7	21.5	118	107	61-127	107	61-127	10	
1,2-Dichloroethane	ug/L	ND	20	20	22.5	19.4	112	97	60-138	97	60-138	15	
Benzene	ug/L	ND	20	20	25.2	21.6	126	108	63-138	108	63-138	16	
Diisopropyl ether	ug/L	ND	20	20	28.5	25.4	143	127	68-146	127	68-146	12	
Ethanol	ug/L	ND	800	800	1140	1040	142	130	40-160	130	40-160	9	
Ethyl-tert-butyl ether	ug/L	ND	20	20	26.0	21.8	130	109	63-138	109	63-138	18	
Ethylbenzene	ug/L	ND	20	20	25.4	22.7	123	109	65-135	109	65-135	11	
Methyl-tert-butyl ether	ug/L	ND	20	20	26.5	22.9	133	114	59-143	114	59-143	15	
tert-Amyl methyl ether	ug/L	ND	20	20	23.1	21.2	115	106	62-142	106	62-142	8	
tert-Butyl Alcohol	ug/L	ND	100	100	137	117	134	114	46-156	114	46-156	15	
Toluene	ug/L	ND	20	20	24.9	22.6	124	113	64-128	113	64-128	10	
Xylene (Total)	ug/L	ND	60	60	75.5	68.6	121	110	65-133	110	65-133	10	
1,2-Dichloroethane-d4 (S)	%						91	88	72-127				
4-Bromofluorobenzene (S)	%						105	104	79-121				
Dibromofluoromethane (S)	%						96	95	81-119				
Toluene-d8 (S)	%						105	103	77-120				

QUALITY CONTROL DATA

Project: 255325
Pace Project No.: 2510230

QC Batch:	MSV/6041	Analysis Method:	EPA 5030B/8260
QC Batch Method:	EPA 5030B/8260	Analysis Description:	8260 MSV Water 10 mL Purge
Associated Lab Samples:	2510230001, 2510230002, 2510230004		

METHOD BLANK: 97394 Matrix: Water

Associated Lab Samples: 2510230001, 2510230002, 2510230004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	12/14/11 22:40	
1,2-Dichloroethane	ug/L	ND	1.0	12/14/11 22:40	
Benzene	ug/L	ND	0.50	12/14/11 22:40	
Diisopropyl ether	ug/L	ND	0.50	12/14/11 22:40	
Ethanol	ug/L	ND	250	12/14/11 22:40	
Ethyl-tert-butyl ether	ug/L	ND	0.50	12/14/11 22:40	
Ethylbenzene	ug/L	ND	0.50	12/14/11 22:40	
Methyl-tert-butyl ether	ug/L	ND	0.50	12/14/11 22:40	
tert-Amyl methyl ether	ug/L	ND	0.50	12/14/11 22:40	
tert-Butyl Alcohol	ug/L	ND	5.0	12/14/11 22:40	
Toluene	ug/L	ND	0.50	12/14/11 22:40	
Xylene (Total)	ug/L	ND	1.5	12/14/11 22:40	
1,2-Dichloroethane-d4 (S)	%	91	72-127	12/14/11 22:40	
4-Bromofluorobenzene (S)	%	118	79-121	12/14/11 22:40	
Dibromofluoromethane (S)	%	93	81-119	12/14/11 22:40	
Toluene-d8 (S)	%	108	77-120	12/14/11 22:40	

LABORATORY CONTROL SAMPLE: 97395

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	20	15.7	79	65-123	
1,2-Dichloroethane	ug/L	20	15.5	78	63-131	
Benzene	ug/L	20	16.9	84	66-123	
Diisopropyl ether	ug/L	20	20.4	102	70-136	
Ethanol	ug/L	800	741	93	40-160	
Ethyl-tert-butyl ether	ug/L	20	17.2	86	65-135	
Ethylbenzene	ug/L	20	16.9	85	67-122	
Methyl-tert-butyl ether	ug/L	20	16.7	84	65-138	
tert-Amyl methyl ether	ug/L	20	15.3	77	68-138	
tert-Butyl Alcohol	ug/L	100	85.7	86	57-153	
Toluene	ug/L	20	17.2	86	64-118	
Xylene (Total)	ug/L	60	50.2	84	68-122	
1,2-Dichloroethane-d4 (S)	%			92	72-127	
4-Bromofluorobenzene (S)	%			115	79-121	
Dibromofluoromethane (S)	%			95	81-119	
Toluene-d8 (S)	%			109	77-120	

QUALITY CONTROL DATA

Project: 255325
Pace Project No.: 2510230

Parameter	Units	Result	MS	MSD	MS	MSD	MS	MSD	% Rec	% Rec	RPD	Qual
			Spike Conc.	Spike Conc.				% Rec				
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	14.6	17.1	73	86	61-127	16		
1,2-Dichloroethane	ug/L	ND	20	20	14.8	17.5	74	87	60-138	16		
Benzene	ug/L	ND	20	20	17.1	19.9	80	95	63-138	15		
Diisopropyl ether	ug/L	ND	20	20	20.0	23.3	100	116	68-146	15		
Ethanol	ug/L	ND	800	800	814	957	102	120	40-160	16		
Ethyl-tert-butyl ether	ug/L	ND	20	20	16.5	19.4	82	97	63-138	16		
Ethylbenzene	ug/L	ND	20	20	17.1	20.2	82	97	65-135	17		
Methyl-tert-butyl ether	ug/L	ND	20	20	16.0	18.8	80	94	59-143	16		
tert-Amyl methyl ether	ug/L	ND	20	20	14.6	17.2	73	86	62-142	16		
tert-Butyl Alcohol	ug/L	14.4	100	100	92.3	102	78	88	46-156	10		
Toluene	ug/L	ND	20	20	17.1	20.1	85	100	64-128	16		
Xylene (Total)	ug/L	ND	60	60	50.0	58.2	80	94	65-133	15		
1,2-Dichloroethane-d4 (S)	%						90	91	72-127			
4-Bromofluorobenzene (S)	%						114	114	79-121			
Dibromofluoromethane (S)	%						94	93	81-119			
Toluene-d8 (S)	%						109	109	77-120			

QUALITY CONTROL DATA

Project: 255325

Pace Project No.: 2510230

QC Batch:	MSV/6062	Analysis Method:	EPA 5030B/8260
QC Batch Method:	EPA 5030B/8260	Analysis Description:	8260 MSV Water 10 mL Purge
Associated Lab Samples:	2510230003		

METHOD BLANK: 97737 Matrix: Water

Associated Lab Samples: 2510230003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	12/19/11 10:01	
1,2-Dichloroethane	ug/L	ND	1.0	12/19/11 10:01	
Benzene	ug/L	ND	0.50	12/19/11 10:01	
Diisopropyl ether	ug/L	ND	0.50	12/19/11 10:01	
Ethanol	ug/L	ND	250	12/19/11 10:01	
Ethyl-tert-butyl ether	ug/L	ND	0.50	12/19/11 10:01	
Ethylbenzene	ug/L	ND	0.50	12/19/11 10:01	
Methyl-tert-butyl ether	ug/L	ND	0.50	12/19/11 10:01	
tert-Amylmethyl ether	ug/L	ND	0.50	12/19/11 10:01	
tert-Butyl Alcohol	ug/L	ND	5.0	12/19/11 10:01	
Toluene	ug/L	ND	0.50	12/19/11 10:01	
Xylene (Total)	ug/L	ND	1.5	12/19/11 10:01	
1,2-Dichloroethane-d4 (S)	%	104	72-127	12/19/11 10:01	
4-Bromofluorobenzene (S)	%	103	79-121	12/19/11 10:01	
Dibromofluoromethane (S)	%	104	81-119	12/19/11 10:01	
Toluene-d8 (S)	%	98	77-120	12/19/11 10:01	

LABORATORY CONTROL SAMPLE: 97738

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	20	17.8	89	65-123	
1,2-Dichloroethane	ug/L	20	20.0	100	63-131	
Benzene	ug/L	20	18.2	91	66-123	
Diisopropyl ether	ug/L	20	19.7	99	70-136	
Ethanol	ug/L	800	501	63	40-160	
Ethyl-tert-butyl ether	ug/L	20	21.8	109	65-135	
Ethylbenzene	ug/L	20	19.2	96	67-122	
Methyl-tert-butyl ether	ug/L	20	20.2	101	65-138	
tert-Amylmethyl ether	ug/L	20	19.8	99	68-138	
tert-Butyl Alcohol	ug/L	100	88.2	88	57-153	
Toluene	ug/L	20	17.5	87	64-118	
Xylene (Total)	ug/L	60	55.9	93	68-122	
1,2-Dichloroethane-d4 (S)	%			107	72-127	
4-Bromofluorobenzene (S)	%			96	79-121	
Dibromofluoromethane (S)	%			106	81-119	
Toluene-d8 (S)	%			99	77-120	

QUALITY CONTROL DATA

Project: 255325
Pace Project No.: 2510230

Parameter	Units	Result	MS	MSD	MS	MSD	MS	MSD	% Rec	% Rec	RPD	Qual
			2510320002	Spike Conc.								
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	18.1	18.2	90	91	61-127	.5		
1,2-Dichloroethane	ug/L	ND	20	20	20.6	19.8	103	99	60-138	4		
Benzene	ug/L	ND	20	20	20.6	20.0	103	100	63-138	3		
Diisopropyl ether	ug/L	ND	20	20	20.2	20.6	101	103	68-146	2		
Ethanol	ug/L	ND	800	800	585	505	73	63	40-160	15		
Ethyl-tert-butyl ether	ug/L	ND	20	20	22.9	22.6	114	113	63-138	1		
Ethylbenzene	ug/L	ND	20	20	22.1	21.3	111	106	65-135	4		
Methyl-tert-butyl ether	ug/L	ND	20	20	20.8	20.6	104	103	59-143	.6		
tert-Amyl methyl ether	ug/L	ND	20	20	20.5	20.2	103	101	62-142	2		
tert-Butyl Alcohol	ug/L	ND	100	100	93.5	82.6	94	83	46-156	12		
Toluene	ug/L	ND	20	20	20.2	19.3	101	96	64-128	5		
Xylene (Total)	ug/L	ND	60	60	64.8	61.9	108	103	65-133	5		
1,2-Dichloroethane-d4 (S)	%						101	101	72-127			
4-Bromofluorobenzene (S)	%						96	97	79-121			
Dibromofluoromethane (S)	%						105	102	81-119			
Toluene-d8 (S)	%						98	98	77-120			

QUALITY CONTROL DATA

Project: 255325
Pace Project No.: 2510230

QC Batch:	MSV/6017	Analysis Method:	CA LUFT
QC Batch Method:	CA LUFT	Analysis Description:	CA LUFT MSV GRO
Associated Lab Samples:	2510230001, 2510230003, 2510230004, 2510230005, 2510230006		

METHOD BLANK: 97089 Matrix: Water

Associated Lab Samples: 2510230001, 2510230003, 2510230004, 2510230005, 2510230006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-Gasoline (C05-C12)	ug/L	ND	50.0	12/13/11 06:06	
4-Bromofluorobenzene (S)	%	113	76-121	12/13/11 06:06	

LABORATORY CONTROL SAMPLE: 97090

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-Gasoline (C05-C12)	ug/L	500	518	104	57-139	
4-Bromofluorobenzene (S)	%			109	76-121	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 97326 97327

Parameter	Units	2510230004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
TPH-Gasoline (C05-C12)	ug/L	ND	500	500	588	595	118	119	40-150	1	
4-Bromofluorobenzene (S)	%						110	114	76-121		

QUALITY CONTROL DATA

Project: 255325
Pace Project No.: 2510230

QC Batch:	MSV/6057	Analysis Method:	CA LUFT
QC Batch Method:	CA LUFT	Analysis Description:	CA LUFT MSV GRO
Associated Lab Samples:	2510230002		

METHOD BLANK: 97608 Matrix: Water

Associated Lab Samples: 2510230002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-Gasoline (C05-C12)	ug/L	ND	50.0	12/14/11 22:40	
4-Bromofluorobenzene (S)	%	118	76-121	12/14/11 22:40	

LABORATORY CONTROL SAMPLE: 97609

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-Gasoline (C05-C12)	ug/L	500	606	121	57-139	
4-Bromofluorobenzene (S)	%			119	76-121	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 97831 97832

Parameter	Units	2510372001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
TPH-Gasoline (C05-C12)	ug/L	12600	500	500	13400	13400	166	171	40-150	.2	E
4-Bromofluorobenzene (S)	%						118	120	76-121		

QUALIFIERS

Project: 255325
Pace Project No.: 2510230

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

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.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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

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.

LABORATORIES

PASI-S Pace Analytical Services - Seattle

ANALYTE QUALIFIERS

E Analyte concentration exceeded the calibration range. The reported result is estimated.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 255325
 Pace Project No.: 2510230

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2510230001	U-1_20111231	EPA 5030B/8260	MSV/6041		
2510230002	U-2_20111231	EPA 5030B/8260	MSV/6041		
2510230003	U-3_20111231	EPA 5030B/8260	MSV/6062		
2510230004	U-4_20111231	EPA 5030B/8260	MSV/6041		
2510230005	U-5_20111231	EPA 5030B/8260	MSV/6016		
2510230006	TB1_20111231	EPA 5030B/8260	MSV/6016		
2510230001	U-1_20111231	CA LUFT	MSV/6017		
2510230002	U-2_20111231	CA LUFT	MSV/6057		
2510230003	U-3_20111231	CA LUFT	MSV/6017		
2510230004	U-4_20111231	CA LUFT	MSV/6017		
2510230005	U-5_20111231	CA LUFT	MSV/6017		
2510230006	TB1_20111231	CA LUFT	MSV/6017		



2510230

COP ELT CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of
Cooler # _____ of _____

4Q11 GW Event

Required Lab Information:

Required Project Information:

Required Invoice Information:

Lab Name:	Pace-Seattle	Site ID #:	255325	Task:	WG_Q_201112	Send Invoice to:	Tara Bosch			
Address:	AnteaGrp proj#			Address: 11050 White Rock Road, Suite 110				Turn around time (days)	10	
940 S. Hamey Street Seattle WA 98108								QC level Required:	Standard	
Lab PM:	Regina Ste. Mane		City	OAKLAND	State	CA 94610	Reimbursement project?	Non-reimbursement project?	Y	Mark one
Phone/Fax:	P: 206-957-2433 F: 206-767-5063		AG PM Name:	Dennis Dettloff		Send EDD to:	copeltdata@intelligentehs.com			
Lab PM email	Regina.SteMarie@pacelabs.com		Phone/Fax:	P: 1-800-477-7411 F: 408-225-8506		CC Hardcopy report to:				
Applicable Lab Quote #:	AG PM Email:	Dennis.dettloff@anteagroup.com		CC Hardcopy report to:						

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Samples IDs MUST BE UNIQUE	Valid Matrix Codes		MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	SAMPLE DATE	SAMPLE TIME	#OF CONTAINERS	FIELD FILTERED? (Y/N)	Preservatives						Comments/Lab Sample I.D.	
		MATRIX	MATRIX							Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₈	Methanol	
1	U-1_20111231	WG	1410	12/5/11				6	N		X						
2	U-2_20111231	WG	1400					6	N		X						
3	U-3_20111231	WG	1320					6	N		X						
4	U-4_20111231	WG	1305					10	N		X						
5	U-5_20111231	WG	1340	↓				6	N		X						
6	U-6_20111231	WG	_____	_____													
7	TB1_20111231	W	0630	12/5/11				4	N		X						
8																	
9																	
10																	
11																	
12																	

Additional Comments/Special Instructions:

RELINQUISHED BY / AFFILIATION DATE TIME ACCEPTED BY / AFFILIATION DATE TIME Sample Receipt Conditions

CJ JONES BTS 12/5/11 10:15 Y/N Y/N Y/N
 FEDEX 120711 0927 COLLEEN WEAVER / PACE 120711 0927 1.6 0 Y/N 0 Y/N 0 Y/N
 0.4 Y/N Y/N Y/N
 0.7 Y/N Y/N Y/N

Global ID: T0600101463

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

UPS COURIER (FEDEX)	PRINT Name of SAMPLER:	CORY KELVIA TRICHA		
US MAIL	SIGNATURE of SAMPLER:	sg	DATE Signed:	12/5/11
			Time:	14:30

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

Sample Container Count

2510230



CLIENT: Antea

COC PAGE 1 of 1

COC ID# _____

Trip Blank(s) Provided?

Y / N

Line Item	VG9H	AG1H	AG1U	BP1U	BP2U	BP3U	BP3N	BP3S	WGKU	WGFU	WG2U	DG9M	DG9B	VG9W	VSG	Comments
1	b															
2	b															
3	b															
4	10															
5	b															
6	4															
7																
8																
9																
10																
11																
12																

AG1H	1 liter HCL amber glass	BP2S	500mL H2SO4 plastic	JGFU	4 oz amber glass soil jar
AG1U	1liter unpreserved amber glass	BP2U	500mL unpreserved plastic	WGKU	8 oz clear glass soil jar
AG2S	500mL H2SO4 amber glass	BP2Z	500mL NaOH, Zn Ac	WGFU	4 oz clear glass soil jar
AG2U	500mL unpreserved amber glass	BP3C	250mL NaOH plastic	WG2U	2 oz clear glass soil jar
AG3S	250mL H2SO4 amber glass	BP3N	250mL HNO3 plastic	JGFM	4 oz amber glass soil jar with MeOH
BG1H	1 liter HCL clear glass	BP3S	250mL H2SO4 plastic	VG9U	40mL unpreserved clear vial
BG1U	1 liter unpreserved glass	BP3U	250mL unpreserved plastic	VG9W	40mL clear vial pre-weighted with DI water
BP1N	1 liter HNO3 plastic	DG9B	40mL Na Bisulfate clear vial	VSG	Headspace septa vial
BP1S	1 liter H2SO4 plastic	DG9H	40mL HCL amber voa vial	VG9H	40mL HCL clear vial
BP1U	1 liter unpreserved plastic	DG9M	40mL MeOH clear vial	WGFX	4oz wide jar w/hexane wipe
BP1Z	1 liter NaOH, Zn, Ac	DG9T	40mL Na Thio amber vial	VG9T	40mL Na Thio. clear vial
BP2N	500mL HNO3 plastic	DG9U	40mL unpreserved amber vial	ZPLC	Ziploc Bag
BP2O	500mL NaOH plastic	I	Wipe/Swab	U	Summa Can



Sample Condition Upon Receipt

Client Name: AnteaProject # 2510230Courier: Fed Ex UPS USPS Client Commercial Pace Other _____Tracking #: 8764 1074 4516, 4577, 4588Custody Seal on Cooler/Box Present: Yes No Seals intact: Yes NoPacking Material: Bubble Wrap Bubble Bags None Other _____ Temp. Blank Yes No Thermometer Used 132013 or 101731963 or 226099 Type of Ice: Wet Blue None Samples on ice, cooling process has begunCooler Temperature 1.6c, 0.4c, 0.7c Biological Tissue is Frozen: Yes No Date and Initials of person examining contents: 120711 CW

Temp should be above freezing ≤ 6°C Comments:

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Follow Up / Hold Analysis Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	8.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	12.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
-Includes date/time/ID/Analysis Matrix:	<u>WT</u>	
All containers needing preservation have been checked.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Exceptions: VOA, coliform, TOC, O&G	Initial when completed	Lot # of added preservative
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	16.
Trip Blanks Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	17.
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Creation Date:	<u>102711</u>	

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

_____Project Manager Review: LARBDate: 12/7/11

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): 1.6 °C

Antea Group Lab Validation Sheet

Project/Client: COP/ELT

Project #: I40255325

Date of Validation: 12/22/11 Date of Analysis: 12/15/11 Sample Date: 12/5/11

Completed By: Jon F. Signature: *Jonathan F. Williams*

Analytical Lab Used and Report # (if any): Pace Analytical 2510230

Circle or
Highlight
Yes/No
below

1. Was the analysis the one requested? Yes / No
2. Do the sample number(s) on the chain-of-custody (COC) match the one(s) that appear on the laboratory data sheet? Yes / No
3. Were samples prepared (extracted, filtered, etc.) within EPA holding times? Yes / No
4. Once prepared/extracted, were the samples analyzed within the EPA holding times? Yes / No
5. Were Laboratory blanks performed, if so, were they below non-detect? Yes / No
6. Are the units correct? (i.e., soil samples in mg/kg or ug/g, water samples mg/L, ug/L, and air samples in volume mg/m^3,etc.) Yes / No
7. Were appropriate Matrix Spike (MS) and Matrix Spike Duplicate (MSD) samples included in the laboratory batch sample? Yes / No
8. In lieu of MS/ MSD, were surrogate spike (SS) or surrogate spike duplicate (SSD) samples included in the laboratory batch samples? Yes / No N/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

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

NON-HAZARDOUS WASTE

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. <i>n/a</i>	Manifest Document No. <i>055325-1211</i>	2. Page 1 of 1
3. Generator's Name and Mailing Address <i>Platinum Energy Christine Mander 30313 Camwood #200 Avalon Hills, CA 91301</i>		Site: <i>255325 3200 Lakeshore Ave Oakland, CA 94610</i>		
4. Generator's Phone <i>(510) 200-5705</i>		6. US EPA ID Number <i> </i>	A. State Transporter's ID <i> </i>	
5. Transporter 1 Company Name <i>Blaine Tech Services</i>		8. US EPA ID Number <i> </i>	B. Transporter 1 Phone <i>310-223-4455</i>	
7. Transporter 2 Company Name <i> </i>		10. US EPA ID Number <i>0000135512</i>	C. State Transporter's ID <i> </i>	
9. Designated Facility Name and Site Address <i>Seaport Environmental 700 Seaport Blvd Redwood City, CA 94063</i>		12. Containers No. <i>1</i> Type <i>TT</i> Total Quantity <i>70</i>	D. Transporter 2 Phone <i> </i>	
11. WASTE DESCRIPTION <i>Non hazardous waste liquid</i>		13. Total Quantity <i> </i>	E. State Facility's ID <i> </i>	
a.		14. Unit Wt/Vol. <i> </i>	F. Facility's Phone <i>WD - 3104-1024</i>	
b.				
c.				
d.				
G. Additional Descriptions for Materials Listed Above			H. Handling Codes for Wastes Listed Above	
15. Special Handling Instructions and Additional Information <i>New protective equipment while handling Weights and volumes are approximate 24 hr emergency phone no (310) 865-4455</i>				
<i>Approval No. 800-1079 Direct bill Blaine Tech</i>				
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.				
(Antia Gump) Printed/Typed Name <i>Christine Mander</i>		Date Month <i>11</i> Day <i>11</i> Year <i>06</i>		
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name <i>Caren Kipathick</i>		Signature <i>Christine Mander</i> Date Month <i>10</i> Day <i>15</i> Year <i>11</i>		
18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name		Signature <i>Caren Kipathick</i> Date Month <i>10</i> Day <i>15</i> Year <i>11</i>		
19. Discrepancy Indication Space				
20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.				
Printed/Typed Name <i>Souquer D. Carone</i>		Signature <i>S. Carone</i> Date Month <i>12</i> Day <i>20</i> Year <i>11</i>		

Semi-Annual Summary Report, July through December 2011

76 Service Station No. 5325

Oakland, CA

Antea Group Project No. I40255325



Attachment E

Waste Manifest