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San Jose, California 95138 USA
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November 8, 2011

Paresh Khatri
Alameda County Environmental Health
1131 Harbor Bay Parkway
Alameda, California 94502-6577

Re: **Report Submittal**
Semi-Annual Monitoring Report - Third Quarter 2011
76 (Former BP) Service Station No. 2611117
7210 Bancroft Avenue
Oakland, California

Dear Mr. Khatri,

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 me at (408) 826-1874.

Sincerely,

Douglas K. Umland, P.G.
Senior Project Manager

Enc: Antea Group, *Semi-Annual Monitoring Report - Third Quarter 2011*

Semi-Annual Monitoring Report, Third Quarter 2011

76 (Former BP) Service Station No. 11117
7210 Bancroft Avenue
Oakland, California

Alameda County Environmental Health
Case No. RO0000356

Antea Group Project No. I42611117
November 8, 2011

Prepared for:
Paresh Khatri
Alameda County Environmental Health
1131 Harbor Bay Parkway
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Prepared by:
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Table of Contents

Figures

Tables

Appendices

1.0 INTRODUCTION

Antea™Group has completed the *Semi-Annual Monitoring Report, Third Quarter 2011*, for the 76 (Former BP) Service Station No. 11117 site in Oakland, California (**Figure 1**). The subject site is an active gasoline station that includes a service station building with three 12,000-gallon gasoline underground storage tanks (USTs) and one 10,000-gallon diesel UST and associated piping and dispensers. The site has an asphalt or concrete surface except for planters along the southeastern and southwestern property boundaries and at the north corner of the property (**Figure 2**). Please refer to **Appendix A** for additional site information and for a history of the environmental investigations and remedial actions.

This report summarizes the data obtained from the recent groundwater monitoring event completed on August 15, 2011. Included herein are site figures, groundwater contaminant data tables, and a discussion of trends. This report has received a technical review by Mr. Doug Umland, California Professional Geologist No. 6159.

1.1 Work Performed in the Second and Third Quarter 2011

1. Antea Group submitted the *Semi-Annual Monitoring Report - First Quarter 2011* to Alameda County Environmental Health department (ACEH) on April 13, 2011.
2. Antea Group submitted a *Remedial Action Investigation Work Plan*, to ACEH on August 3, 2011.
3. Subcontractor Blaine Tech Services, Inc. (Blaine Tech) conducted the third quarter 2011 groundwater monitoring event on August 15, 2011.
4. Antea Group submitted the *Technical Report – Extension Request* letter to the ACEH on September 29, 2011 requesting a report submittal extension to accommodate a 90-day ISCO test

1.2 Work Proposed for the Fourth Quarter 2011 and First Quarter 2012

1. Antea Group will submit the *Semi-Annual Monitoring Report, Third Quarter 2011* (contained herein) to ACEH.
2. Antea Group will perform the field activities proposed in the August 2011 *Remedial Action Investigation Work Plan* and approved by the ACEH in an agency letter dated September 1, 2011.
3. Antea Group will continue semi-annual groundwater monitoring – the next event schedule is set for February 2011.

2.0 CURRENT PROJECT STATUS

Current phase of project:	Semi-Annual Groundwater Monitoring
Local Oversight Program (LOP) – Lead agency for cleanup oversight:	Alameda County Environmental Health, Case No. RO0000356

Secondary agency(s):	San Francisco Bay Regional Water Quality Control Board
Monitoring well gauging schedule:	Semi-Annually (1Q, 3Q): MW-1, MW-3, MW-4, MW-6, MW-7, MW-8, MW-9, MW-10, MW-11, EX-1, and EX-2
Monitoring well sampling schedule:	Semi-Annually (1Q, 3Q): MW-4, MW-7, MW-9, MW-10, MW-11, EX-1, and EX-2 Annually (1Q): MW-1, MW-3, MW-6, and MW-8
Total number of monitoring/remediation wells (**Table 1**):	16 wells (9 monitoring wells - MW-1, MW-3, MW-4, MW-6, MW-7, MW-8, MW-9, MW-10, and MW-11; 7 remediation wells - EX-1, EX-2 and DPE-1, DPE-2, DPE-3, DPE-4, and DPE-5)
Range of well depths (total depth below ground surface, bgs) (**Table 1**):	35 to 45 feet bgs (**Table 1**)
Wells with historical measurable LNAPL (light non-aqueous phase liquid):	Yes, sporadic trace amounts in wells EX-2 and MW-4, and greater amounts in MW-2 between 1993 and 1998 (maximum of 4.25 feet was reported in well MW-2 on 1/25/1995).
Generalized site geology:	Surface to ~3' bgs: Gravel Fill ~3 to 30' bgs: silt and silty sand ~30 to 45' bgs: clay
Historical depth to water range, in feet below top of casing (BTOC):	Min: 9.49 (MW-3, Q2 2000) Max: 34.07 (MW-2, Q4 1993)
Historical groundwater elevation range (ft):	Min: 15.43 (MW-3, Q4 2008) Max: 41.91 (MW-3, Q2 2000)
Local receptors:	As many as 10 wells within one mile of the site, plus several sensitive receptors within 0.5 miles of the site. According to the October 2010 *Sensitive Receptor Survey* by Delta Consultants, no receptors likely to have been impacted by release from the site (See also **Appendix A**)
Current remediation technique	None (Remedial Action Investigation currently being performed)

2.1 Regulatory Correspondence

Antea Group submitted the *Remedial Action Investigation Work Plan*, dated August 3, 2011 to the ACEH. The ACEH approved the proposed scope of work in an agency letter to Antea Group dated September 1, 2011. Antea Group submitted the *Technical Report – Extension Request* letter to the ACEH on September 29, 2011 requesting a report submittal extension to accommodate a 90-day in-situ chemical oxidation (ISCO) bench-scale test.

2.2 Remedial Activities

Active remediation is not currently taking place on-site. However, Antea Group is currently performing field activities related to a remedial action investigation. For a summary of previous remedial activities and pilot testing, please refer to **Appendix A**.

2.3 Groundwater Monitoring

For the third quarter 2011 groundwater monitoring event, subcontractor Blaine Tech gauged 15 wells and purged/sampled sampled nine wells per their standard sampling protocol (**Appendix B**). Blaine Tech was unable to locate well MW-9. **Appendix C** includes copies of Blaine Tech's field data sheets, and the table below summarizes the recent gauging and sampling data.

Well gauging and sampling date:	August 15, 2011
Wells gauged^:	MW-1, MW-3, MW-4, MW-6, MW-7, MW-8, MW-10, MW-11, EX-1, EX-2, and DPE-1 through DPE-5 (MW-9 was not able to be located)
Wells sampled^:	*MW-4, MW-7, MW-10, MW-11, EX-1, EX-2, DPE-1, DPE-4, and DPE-5
Purge method:	*3 well casing volumes via electric, submersible pump, purged through a flow cell
Sample collection method:	Disposable bailers
Groundwater parameters measured (**Appendix C**):	Temperature, pH, Conductivity, Oxidation-reduction potential (ORP), Turbidity, Dissolved Oxygen (DO)
Wells with measurable LNAPL:	None
Current depth to water range (ft BTOC):	Min: 14.58 (MW-11) Max: 17.76 (MW-10)
Current groundwater elevation range (ft):	*Min: 22.00 (MW-3) *Max: 23.24 (EX-2)
Change in groundwater elevation from previous event (average change for all gauged wells):	Decreased groundwater elevation averaging 0.8 feet between February 2011 and August 2011
Groundwater flow direction and gradient:	Variable, but generally to the northeast

^Antea Group gauged/purged/sampled additional wells in the 3rd quarter event to collect additional data in preparing for the remedial action investigation

* Samples from wells EX-2 and MW-10 were collected without purging

**Not including MW-6, this is not surveyed to the same datum as the other wells

2.3.1 Groundwater Flow Gradient and Directional Trends

Currently, eleven wells present on the site are gauged on a semi-annual basis. Antea Group determined the groundwater flow direction and gradient to be variable in the recent event (**Figure 3**). Overall, it appears that groundwater flow is generally to the northeast and contaminant migration is to the southeast. The previous monitoring and sampling event (February 2011) reported the groundwater gradient and flow direction to be variable, but generally to the southeast. Historical groundwater flow and gradient data are included for reference in **Appendix D.**

2.3.2 Groundwater Quality Data

Blaine Tech submitted the groundwater samples collected during the third quarter 2011 under chain-of-custody protocol to Pace Analytical Services, Inc. (Pace), a state of California Environmental Laboratory Accreditation Program (ELAP) certified laboratory (Certification No. 01153CA). The complete analytical report is included in **Appendix E**. The chain of custody requested the laboratory to analyze groundwater samples were analyzed for the following contaminants of concern:

- Gasoline Range Organics (GRO) by California Method CA-LUFT;
- Benzene, toluene, ethylbenzene, total xylenes (BTEX compounds) by EPA Method 8260B.

- Methyl tert-butyl ether (MTBE), ethyl tert-butyl ether (ETBE), di-isopropyl ether (DIPE), tertiary-amyl methyl ether (TAME), tertiary butyl alcohol (TBA), ethanol, 1,2-dichloroethane (1,2-DCA) and 1,2-dibromoethane (EDB) by EPA Method 8260B.

Groundwater analytical results are presented in **Table 2** (current) and **Table 3** (historical). The following table presents the ranges of contaminant concentrations reported in the groundwater samples collected on August 15, 2011 (only the reported contaminants are listed).

Constituents	Number of Samples Where Constituent was Reported Above LRL of the Total Samples Collected	Minimum Reported Concentration, in µg/L (Sample ID)	Maximum Reported Concentration, in µg/L (Sample ID)
GRO	6 of 9	571 (DPE-1)	57,600 (DPE-4)
Benzene	5 of 9	470 (EX-1)	5,920 (DPE-4)
Toluene	6 of 9	0.80 (MW-11)	7,240 (DPE-4)
Ethylbenzene	6 of 9	6.3 (DPE-1)	3,830 (DPE-4)
Total Xylenes	6 of 9	8.0 (MW-11)	12,100 (DPE-4)
MTBE	8 of 9	1.1 (DPE-1)	5,560 (DPE-4)
TBA	7 of 9	13.1 (MW-7 and MW-10)	6,920 (DPE-4)
ETBE	2 of 9	1.2 (DPE-5)	12.2 (DPE-4)
TAME	3 of 9	10.0 (DPE-5)	132 (DPE-4)
1,2-DCA	1 of 9	--	13.3 (EX-1)

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

2.3.3 Groundwater Contaminant Trends

Levels of GRO, BTEX compounds, MTBE and TBA continue to be reported in several of the site's monitoring wells. Overall, trending for contaminants show relatively steady or decreasing concentrations, except for the following (**Appendix F** includes concentration versus time graphs for selected wells):

- Concentrations reported in MW-4 during the current event indicated a significant increase in all compounds analyzed relative to the past three sampling events, but the concentrations are still below the historical maximum concentrations observed in the well.
- Well MW-10 reported a significant increase in MTBE and TBA concentrations since the last sampling event.
- Well EX-1 reported a decrease in most compounds since the last sampling event, but reported increases in TAME, TBA, and 1,2-DCA.

Before the current event, groundwater samples were last collected from the DPE wells in February 2009. In the three DPE wells sampled during this event, the reported concentrations of compounds are generally about half of those reported during the February 2009 sampling event.

During previous events, contaminant plumes in groundwater are limited to the eastern and southeastern portion of the site, and extend offsite into and only slightly beyond 73rd Avenue, near MW-9. This trend is consistent with the current event. However, MTBE and TBA contaminant plumes are also present on the northern portion of the site near wells MW-7 and MW-10. **Figures 4 through 7** included dissolved-phase isoconcentration maps, drawn using the most recent data.

2.3.4 Monitored Natural Attenuation and Engineering Parameters

In addition to the gasoline and fuel oxygenate parameters listed in Section 2.3.2, Antea Group had the August 15, 2011 groundwater samples collected from wells DPE-1, DPE-4, DPE-5, EX-1, and EX-2 analyzed for one or more of the parameters listed below. Antea Group requested these analyses to establish baseline data for comparison to future data to evaluate the effectiveness of future remediation efforts.

- Methane headspace analysis by Robert S. Kerr (RSK) Method 175.
- Total Iron by EPA Method 6010.
- Ferric and ferrous iron by Standard Method (SM) 3500
- Nitrogen, Ammonia by SM 4500-NH3
- Iodometric Sulfide by SM 4500-S-2 F
- 5-day biological oxygen demand (BOD) by SM 5210B.
- Chloride and sulfate by EPA Method 300.0.
- Total Kjeldahl Nitrogen by EPA Method 351.2
- Nitrogen as nitrate and nitrogen as NO_2 plus NO_3 by EPA Method 353.2.
- Nitrate as N by SM 4500NO2-B.
- Chemical oxygen demand (COD) by EPA Method 410.4.
- Total and ortho-phosphorous by SM 4500PE.
- Total Organic Carbon (TOC) by SM 5310C
- Total and hexavalent Chromium by EPA Method 200.8

Groundwater analytical results for the listed additional parameters are presented in **Table 2A** (current) and **Table 3a** (historical**)**. Antea Group will continue to analyze for monitored natural attenuation and engineering parameters during subsequent sampling events at the site.

2.3.5 Waste Disposal Summary

Blaine Tech samplers generated approximately 200 gallons of waste water during well purging/sampling and equipment cleaning in the third quarter event. They transported the waste water to Blaine Tech's bulk facility in

San Jose, California. After the batching process, the wastewater was transported to Seaport Environmental in Redwood City, California for disposal. **Appendix G** includes copies of the first and third quarter 2011 non-hazardous waste manifests.

2.3.6 Quality Assurance / Quality Control

Antea Group's QA/QC measures included use of a trip blank and a detailed QA/QC data validation check on the Pace Laboratory analytical results for the August 2011 sampling event. **Appendix E** includes Antea Group's laboratory data validation checklist and the Pace laboratory report.

Trip Blank (TB1_20110831):	No contaminants reported
Laboratory QA/QC Performed:	Yes (validated by Antea Group)
Laboratory Data Qualifiers:	Yes – multiple qualifiers*
Are the data valid for their intended purpose?	Yes, the data are valid

*2n - High bias (confirmed with secondary analysis) due to matrix interference.

*3n - Matrix interference noted for this sample.

* D4 - Sample was diluted due to the presence of high levels of target analytes.

In addition, the laboratory reported a number of qualifiers in their QA/QC data. However, none of them is expected to affect the gasoline or fuel oxygenate sample results that are the basis of this investigation (many of the qualifiers were for the additional compounds analyzed and discussed above in Section 2.3.4). Based on a review of the laboratory's analytical report, including their QA/QC procedures and those implemented by Antea Group, we conclude that the laboratory data obtained during this groundwater sampling event are valid for their intended purpose.

3.0 CONCLUSIONS AND RECOMMENDATIONS

- Antea Group and subcontractors continued semi-annual groundwater monitoring with an August 15, 2011 sampling event. Contaminants reported at concentrations above laboratory reporting limits were GRO, benzene, toluene, ethylbenzene, total xylenes, MTBE, TBA, ETBE, and TAME.
- To monitor pre-remediation parameters, Antea Group collected additional groundwater samples for monitored natural attenuation and engineering parameter analyses. We requested these additional data from wells DPE-1, DPE-4, DPE-5, EX-1, and EX-2.
- Concentrations of GRO, benzene, and MTBE continue to remain steady or decrease in wells MW-7 and MW-11.
- Concentrations reported in MW-4 during the current event indicated a significant increase in all compounds analyzed in comparison to the recent data, but are still below the historical maximum concentrations observed in the well.

- Well MW-10 reported a significant increase in MTBE and TBA concentrations since the last sampling event, and well EX-1 reported a decrease in most compounds since the last sampling event, but reported increases in TAME, TBA, and 1,2-DCA
- Before the current event, groundwater samples were last collected from the DPE wells in February 2009. The reported concentration of compounds in these wells is generally half of those reported during the last sampling event.

At this time, Antea Group conducting field activities for the scope of work proposed in the August 11, 2011 *Remedial Action Investigation Work Plan*. Upon its completion, Antea Group will present the results of that investigation under separate cover. Meanwhile, Antea Group recommends continued semi-annual monitoring of groundwater per the existing monitoring schedule.

4.0 REMARKS

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

Prepared by:

Stephen A. Meninger
Project Geologist
California Registered Professional Geologist No. 8853

Dan C. Keltner, REA
Project Manager

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 follows.

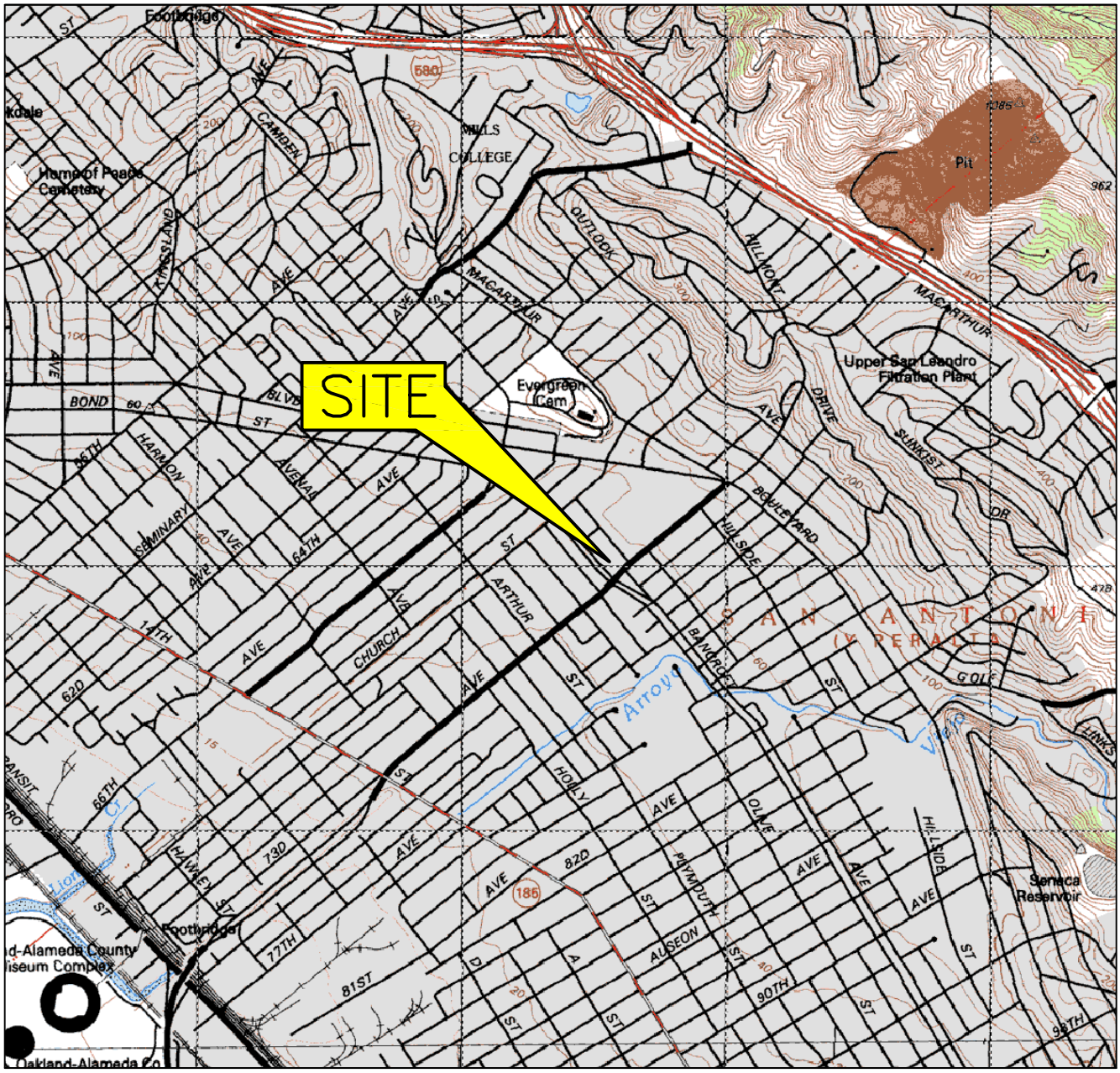
Licensed Approver:

PROFESSIONAL GEOLOGIST
DOUGLAS K. UMLAND
No. 6159
EXP. 12/31/2011
STATE OF CALIFORNIA

Douglas K. Umland
Senior Project Manager
California Registered Professional Geologist No. 6159

cc: Ms. Tiffany McClendon, One Eastmont Town Center, 7200 Bancroft Avenue, Oakland, CA 94605
GeoTracker (upload)

Figures



QUADRANGLE LOCATION

GENERAL NOTES:
BASE MAP FROM USGS, 7.5 MINUTE
TOPOGRAPHIC OAKLAND, CA. PHOTO REVISED 1980

FIGURE 1
SITE LOCATION MAP

76 (FORMER BP) STATION NO 11117
7210 BANCROFT AVENUE
OAKLAND CALIFORNIA

PROJECT NO.	PREPARED BY	DRAWN BY
142611117	DK	JH
DATE	REVIEWED BY	FILE NAME
03/30/11	DU	11117-TOPO

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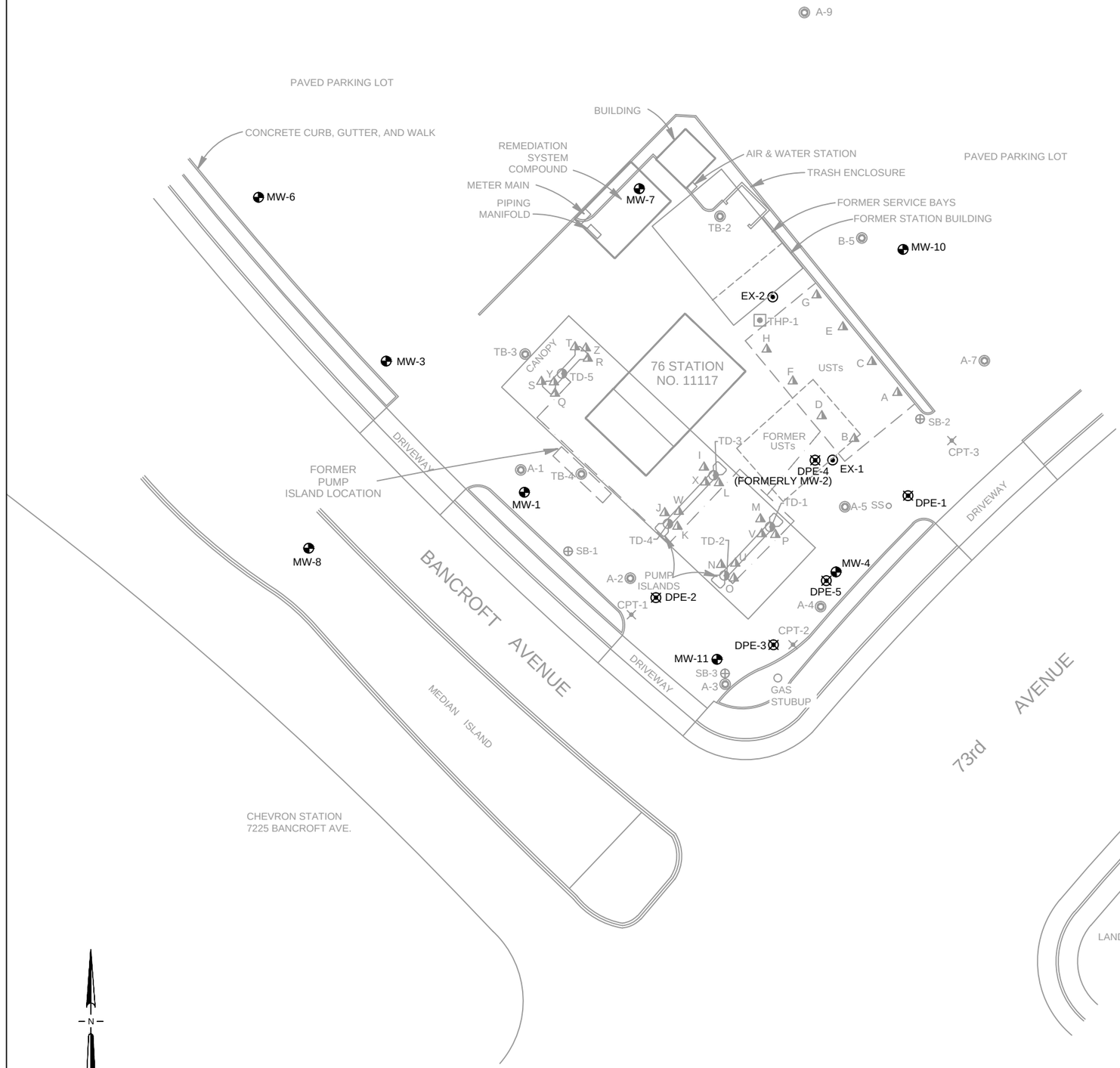

EXPLANATION

- MW-7 — GROUNDWATER MONITORING WELL LOCATION
- EX-1 — SOIL VAPOR EXTRACTION WELL LOCATION
- DPE-2 — GROUNDWATER EXTRACTION WELL LOCATION
- SS — SEWER CLEANOUT LOCATION
- SB-2 — FUTURE USE STUB-OUT LOCATION
- A-1/TB-2 — SOIL BORING LOCATION
  - A BORINGS (URS, NOVEMBER 2005)
  - B BORING (HEDI, 1992)
  - T BORINGS (EMCON, 1994)
- TD-1 — DISPENSER GRAB SAMPLE LOCATION (EMCON, SEPTEMBER 1994)
- THP-1 — HYDROPUNCH BORING LOCATION (EMCON, SEPTEMBER 1994)
- A — SOIL SAMPLES COLLECTED DURING ERI UST, PRODUCT LINE, AND DISPENSER REMOVAL (NOVEMBER, 1998)
- CPT-1 — CONE PENETROMETER TEST BORINGS BROADBENT & ASSOCIATES, INC. (JUNE, 2007)
- PRODUCT LINES

FIGURE 2
SITE PLAN

76 (FORMER BP) STATION NO 11117
7210 BANCROFT AVENUE
OAKLAND, CALIFORNIA

PROJECT NO.	PREPARED BY	DRAWN BY
I42611117	SM	JH
DATE	REVIEWED BY	FILE NAME
06/07/11	DU	11117-SMS

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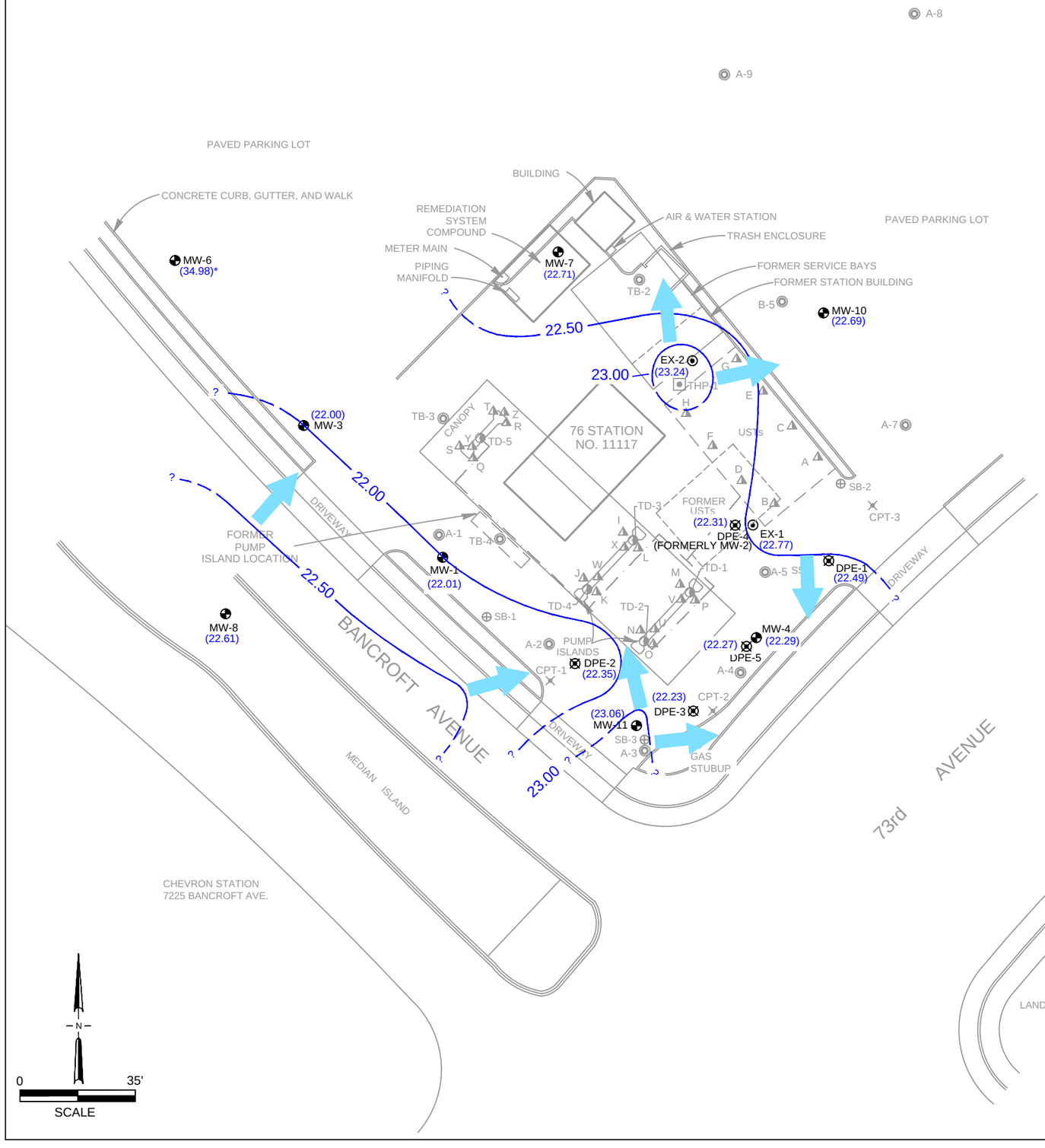

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- CPT-1 — CONE PENETROMETER TEST BORINGS BROADBENT & ASSOCIATES, INC. (JUNE, 2007)
- PRODUCT LINES
- (22.49) — GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL (ft/msl)
- (UL) — UNABLE TO LOCATE
- 22.50 — GROUNDWATER CONTOUR LINE (µg/L) DASHED WHERE INFERRED (CONTOUR INTERVAL: 0.50 ft.)
- * — WELL NOT INCLUDED IN CONTOURING ELEVATION IS ANOMALOUS.
- APPROXIMATE GROUNDWATER FLOW DIRECTION

FIGURE 3
GROUNDWATER ELEVATION CONTOURS
AUGUST 15, 2011
76 (FORMER BP) STATION NO 11117
7210 BANCROFT AVENUE
OAKLAND, CALIFORNIA

PROJECT NO.	PREPARED BY	DRAWN BY
142611117	SM	JH
DATE	REVIEWED BY	FILE NAME
10/7/11	DU	11117-SM1

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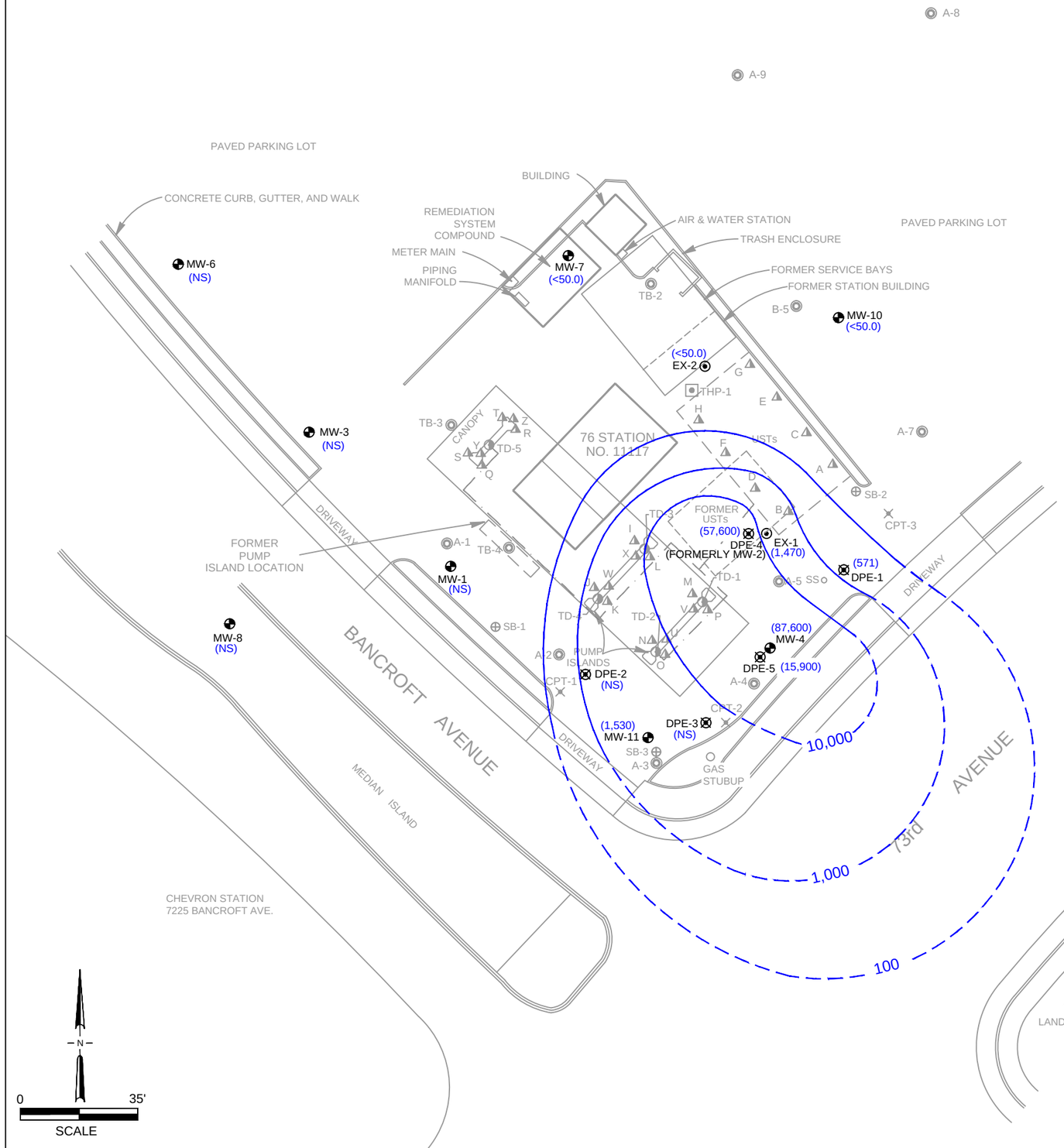

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- CPT-1 — CONE PENETROMETER TEST BORINGS BROADBENT & ASSOCIATES, INC. (JUNE, 2007)
- PRODUCT LINES
- GRO — GASOLINE RANGE ORGANICS
- µg/L — MICROGRAMS PER LITER
- 100 — DISSOLVED-PHASE GRO CONCENTRATION CONTOUR (µg/L); DASHED WHERE INFERRED
- (571) — DISSOLVED-PHASE GRO CONCENTRATION (µg/L)
- (NS) — NOT SAMPLED
- (UL) — UNABLE TO LOCATE
- <50.0 — CONSTITUENT NOT DETECTED ABOVE INDICATED REPORTING LIMIT

FIGURE 4
DISSOLVED-PHASE GRO ISOCONCENTRATION MAP - AUGUST 15, 2011
76 (FORMER BP) STATION NO 11117
7210 BANCROFT AVENUE
OAKLAND, CALIFORNIA

PROJECT NO.	PREPARED BY	DRAWN BY
142611117	SM	JH
DATE	REVIEWED BY	FILE NAME
10/7/11	DU	11117-SM1

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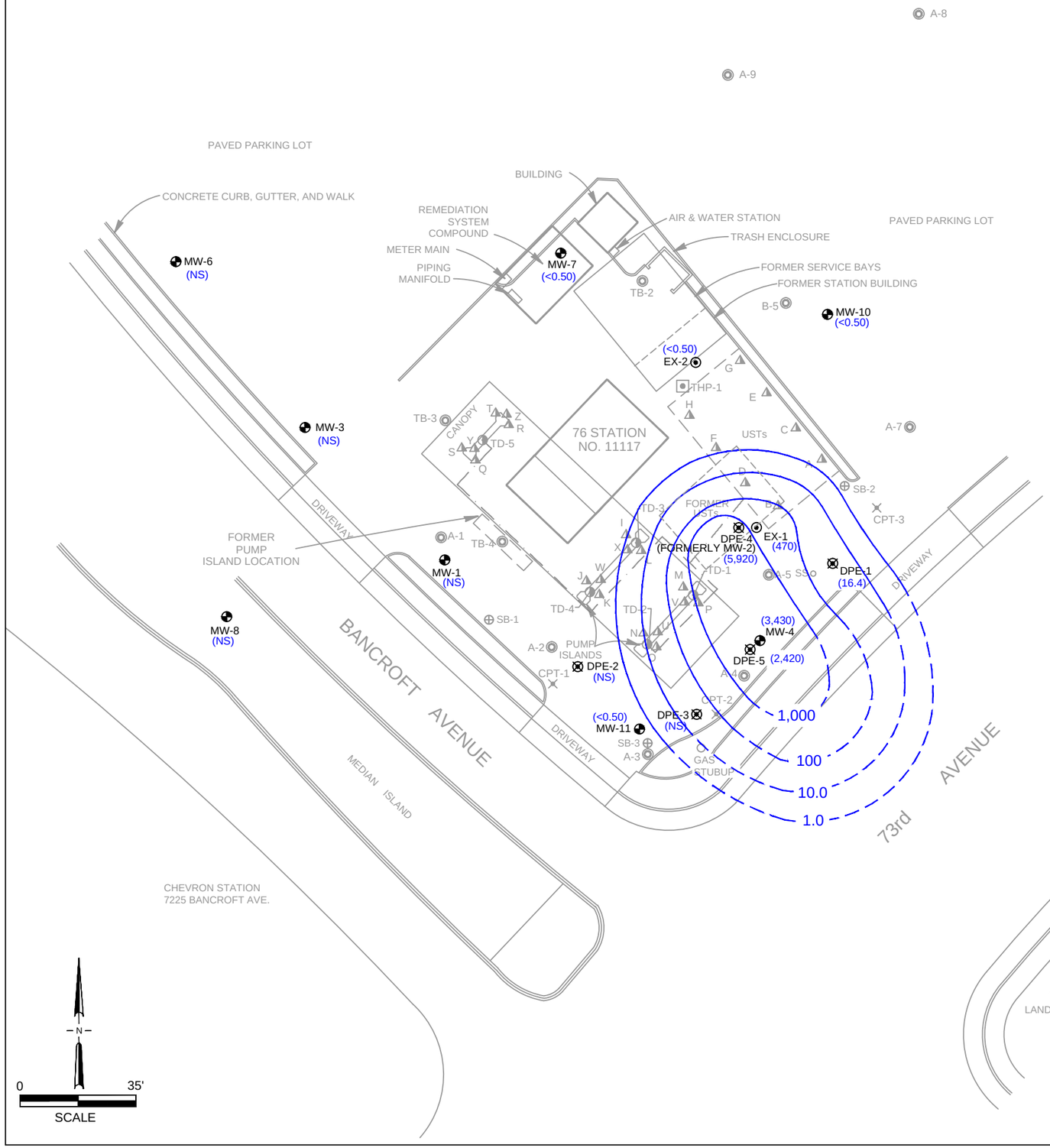

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- CPT-1 — CONE PENETROMETER TEST BORINGS BROADBENT & ASSOCIATES, INC. (JUNE, 2007)
- PRODUCT LINES
- µg/L — MICROGRAMS PER LITER
- 100 — DISSOLVED-PHASE BENZENE CONCENTRATION CONTOUR (µg/L); DASHED WHERE INFERRED
- (3,430) — DISSOLVED-PHASE BENZENE CONCENTRATION (µg/L)
- (NS) — NOT SAMPLED
- (UL) — UNABLE TO LOCATE
- <0.50 — CONSTITUENT NOT DETECTED ABOVE INDICATED REPORTING LIMIT

FIGURE 5
DISSOLVED-PHASE BENZENE ISOCONCENTRATION MAP - AUGUST 15, 2011
76 (FORMER BP) STATION NO 11117
7210 BANCROFT AVENUE
OAKLAND, CALIFORNIA

PROJECT NO.	PREPARED BY	DRAWN BY	
142611117	SM	JH	
DATE	REVIEWED BY	FILE NAME	
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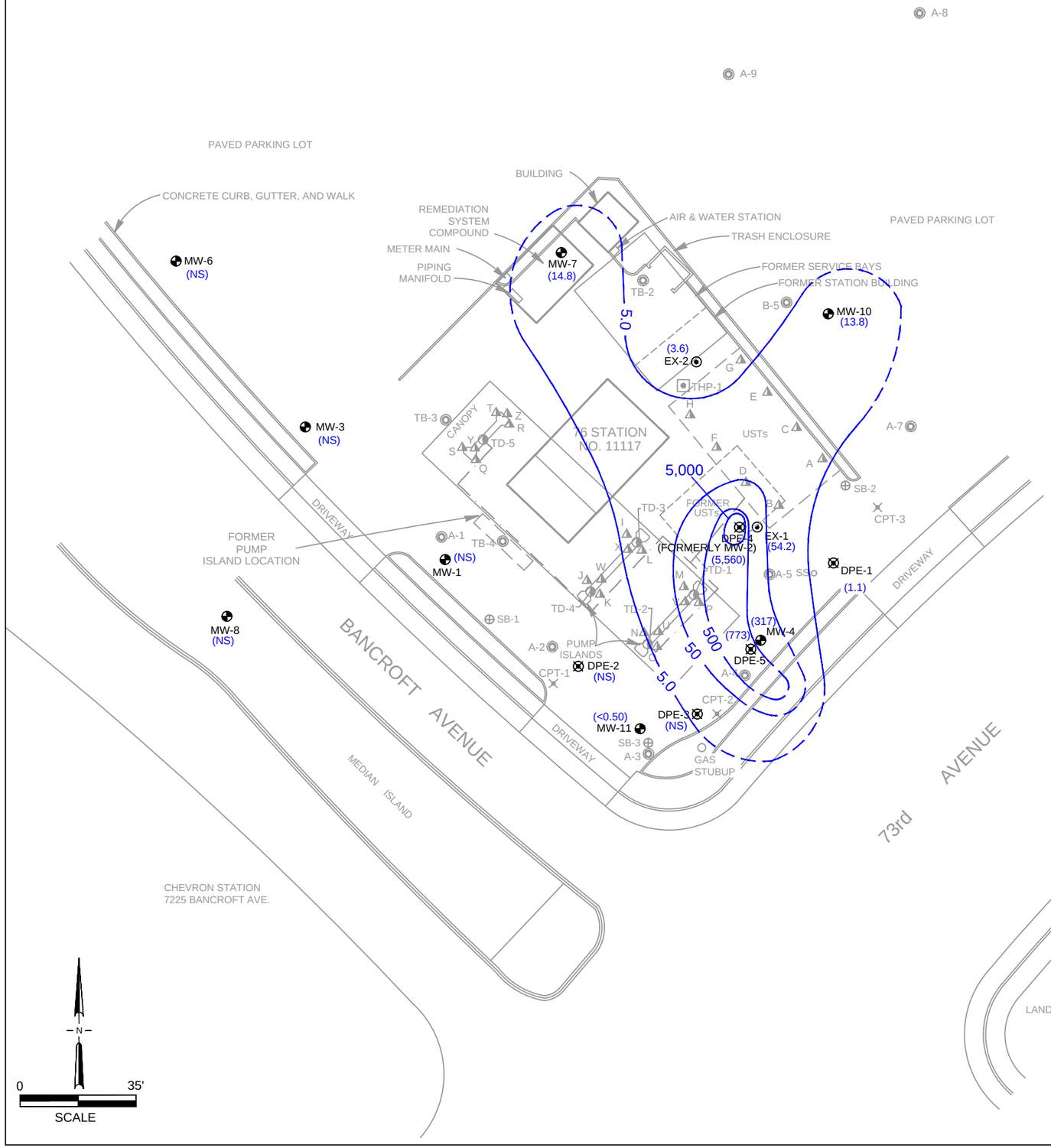

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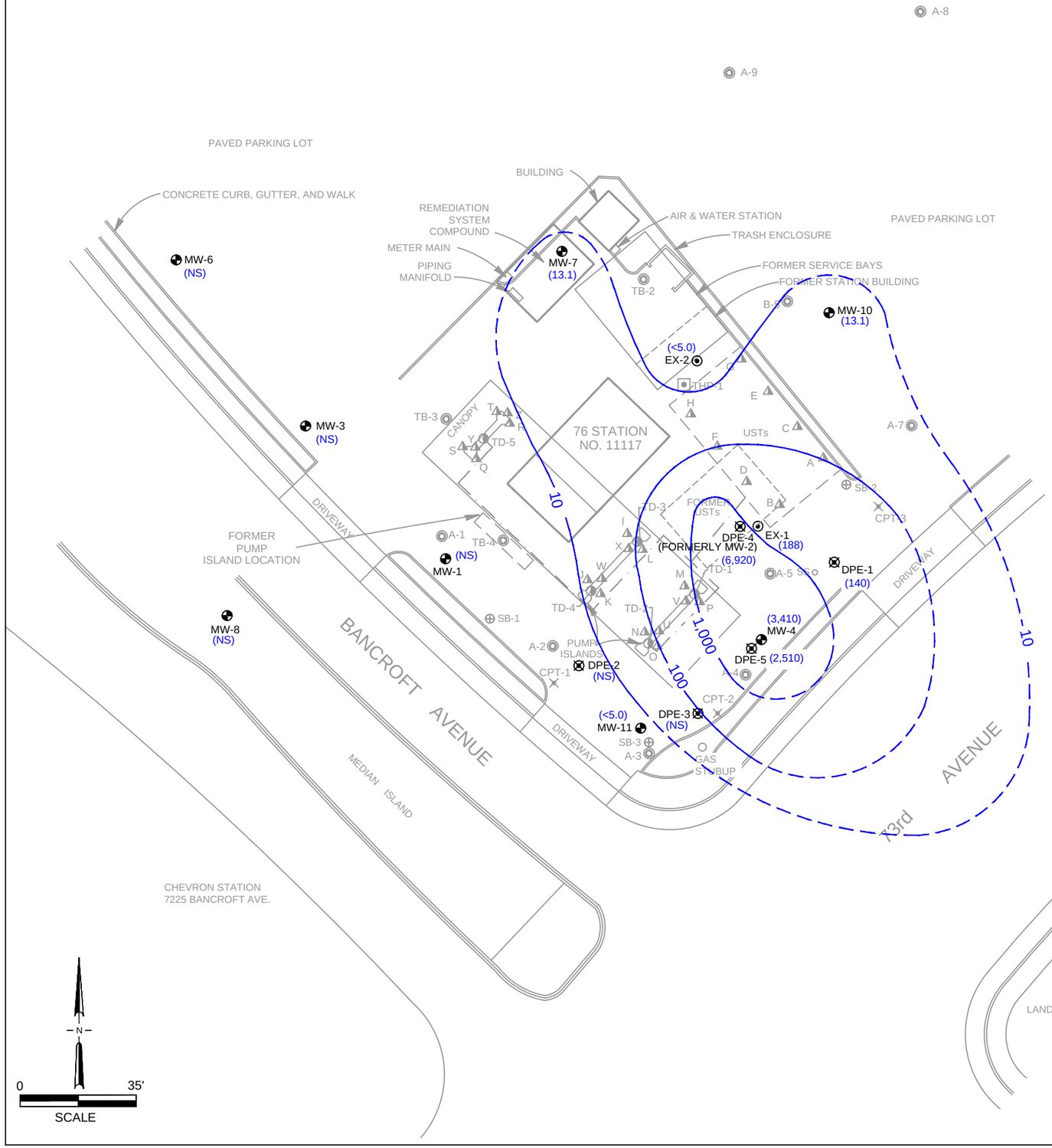
- SEWER CLEANOUT LOCATION
- SB-2 — FUTURE USE STUB-OUT LOCATION
- A-1/TB-2 — SOIL BORING LOCATION
  - A BORINGS (URS, NOVEMBER 2005)
  - B BORING (HEDI, 1992)
  - T BORINGS (EMCON, 1994)
- TD-1 — DISPENSER GRAB SAMPLE LOCATION (EMCON, SEPTEMBER 1994)
- THP-1 — HYDROPUNCH BORING LOCATION (EMCON, SEPTEMBER 1994)
- A — SOIL SAMPLES COLLECTED DURING ERI UST, PRODUCT LINE, AND DISPENSER REMOVAL (NOVEMBER, 1998)
- CPT-1 — CONE PENETROMETER TEST BORINGS BROADBENT & ASSOCIATES, INC. (JUNE, 2007)
- PRODUCT LINES
- MTBE — METHYL TERTIARY-BUTYL ETHER
- µg/L — MICROGRAMS PER LITER
- 50 — DISSOLVED-PHASE MTBE CONCENTRATION CONTOUR (µg/L); DASHED WHERE INFERRED
- (364) — DISSOLVED-PHASE MTBE CONCENTRATION (µg/L)
- (NS) — NOT SAMPLED
- <0.50 — CONSTITUENT NOT DETECTED ABOVE INDICATED REPORTING LIMIT

FIGURE 6
DISSOLVED-PHASE MTBE ISOCONCENTRATION MAP - AUGUST 15, 2011
76 (FORMER BP) STATION NO 11117
7210 BANCROFT AVENUE
OAKLAND, CALIFORNIA

PROJECT NO.	PREPARED BY	DRAWN BY
142611117	SM	JH
DATE	REVIEWED BY	FILE NAME
10/7/11	DU	11117-SM1

antea group



EXPLANATION

- MW-7 — GROUNDWATER MONITORING WELL LOCATION
- EX-1 — SOIL VAPOR EXTRACTION WELL LOCATION
- DPE-2 — GROUNDWATER EXTRACTION WELL LOCATION
- SS — SEWER CLEANOUT LOCATION
- SB-2 — FUTURE USE STUB-OUT LOCATION
- PRODUCT LINES
- SEWER CLEANOUT LOCATION
- SB-2 — FUTURE USE STUB-OUT LOCATION
- A-1/TB-2 — SOIL BORING LOCATION
  - A BORINGS (URS, NOVEMBER 2005)
  - B BORING (HEDI, 1992)
  - T BORINGS (EMCON, 1994)
- TD-1 — DISPENSER GRAB SAMPLE LOCATION (EMCON, SEPTEMBER 1994)
- THP-1 — HYDROPUNCH BORING LOCATION (EMCON, SEPTEMBER 1994)
- A — SOIL SAMPLES COLLECTED DURING ERI UST, PRODUCT LINE, AND DISPENSER REMOVAL (NOVEMBER, 1998)
- CPT-1 — CONE PENETROMETER TEST BORINGS BROADBENT & ASSOCIATES, INC. (JUNE, 2007)
- PRODUCT LINES
- TBA — TERTIARY BUTYL ALCOHOL
- µg/L — MICROGRAMS PER LITER
- 100 — DISSOLVED-PHASE TBA CONCENTRATION CONTOUR (µg/L); DASHED WHERE INFERRED
- (188) — DISSOLVED-PHASE TBA CONCENTRATION (µg/L)
- (NS) — NOT SAMPLED
- <5.0 — CONSTITUENT NOT DETECTED ABOVE INDICATED REPORTING LIMIT

FIGURE 7
DISSOLVED-PHASE TBA ISOCONCENTRATION MAP -AUGUST 15, 2011
76 (FORMER BP) STATION NO 11117
7210 BANCROFT AVENUE
OAKLAND, CALIFORNIA

PROJECT NO.	PREPARED BY	DRAWN BY
142611117	SM	JH
DATE	REVIEWED BY	FILE NAME
10/7/11	DU	11117-SM1

antea group

Tables

TABLE 1
SOIL BORING AND MONITORING WELL CONSTRUCTION DETAILS
76 (FORMER BP) SERVICE STATION NO. 11117
7210 BANCROFT AVENUE
OAKLAND, CALIFORNIA

Updated 5/24/2011

Boring/Well ID	Well/Boring Completion Date	TOC Elevation[1] (ft)	Borehole Depth (ft bgs)	Borehole Diameter (in)	Well Depth (ft)	Well Casing Diameter (in)	Well Casing Material	Well Screen Slot Size (in)	Well Screen Interval (ft bgs)	Cement Grout Seal Interval (ft bgs)	Bentonite Seal Interval (ft bgs)	Filter Pack Interval (ft bgs)	Comments
Soil Borings													
B-5	Jul-92	NA	50.0	8.0	NA	NA	NA	NA	NA to NA	0.0 to 50.0	NA to NA	NA to NA	
THP-1	Sep-94	NA	45.0	1.75	NA	NA	NA	NA	NA to NA	0.0 to 45.0	NA to NA	NA to NA	
TB-2	Sep-94	NA	45.0	1.75	NA	NA	NA	NA	NA to NA	0.0 to 45.0	NA to NA	NA to NA	
TB-3	Sep-94	NA	45.0	1.75	NA	NA	NA	NA	NA to NA	0.0 to 45.0	NA to NA	NA to NA	
TB-4	Sep-94	NA	45.0	1.75	NA	NA	NA	NA	NA to NA	0.0 to 45.0	NA to NA	NA to NA	
A-1	Sep-05	NA	46.5	4.25	NA	NA	NA	NA	NA to NA	0.0 to 46.5	NA to NA	NA to NA	
A-2	Sep-05	NA	42.0	2.0	NA	NA	NA	NA	NA to NA	0.0 to 42.0	NA to NA	NA to NA	
A-3	Nov-05	NA	36.0	2.0	NA	NA	NA	NA	NA to NA	0.0 to 36.0	NA to NA	NA to NA	
A-4	Nov-05	NA	36.0	2.0	NA	NA	NA	NA	NA to NA	0.0 to 36.0	NA to NA	NA to NA	
A-5	Nov-05	NA	36.0	2.0	NA	NA	NA	NA	NA to NA	0.0 to 36.0	NA to NA	NA to NA	
A-7	Nov-05	NA	36.5	4.25	NA	NA	NA	NA	NA to NA	0.0 to 36.5	NA to NA	NA to NA	
A-8	Nov-05	NA	36.5	4.25	NA	NA	NA	NA	NA to NA	0.0 to 36.5	NA to NA	NA to NA	
A-9	Nov-05	NA	36.5	4.25	NA	NA	NA	NA	NA to NA	0.0 to 36.5	NA to NA	NA to NA	
A-10	Nov-05	NA	39.0	4.25	NA	NA	NA	NA	NA to NA	0.0 to 39.0	NA to NA	NA to NA	
CPT-1	Apr-07	NA	60.0	1.75	NA	NA	NA	NA	NA to NA	0.0 to 60.0	NA to NA	NA to NA	
CPT-2	Apr-07	NA	60.0	1.75	NA	NA	NA	NA	NA to NA	0.0 to 60.0	NA to NA	NA to NA	
CPT-3	Apr-07	NA	60.0	1.75	NA	NA	NA	NA	NA to NA	0.0 to 60.0	NA to NA	NA to NA	
Groundwater Monitoring Wells													
MW-1	Dec-91	37.41	40	8	40	2	PVC	0.02	20.0 to 40.0	0.0 to 17.0	17.0 to 18.0	18.0 to 40.0	
MW-2	Dec-91	51.07	40	8	40	2	PVC	0.02	20.0 to 40.0	0.0 to 17.0	17.0 to 18.0	18.0 to 40.0	Well destroyed November 17, 2007
MW-3	Dec-89	37.56	45	8	45	2	PVC	0.02	30.0 to 45.0	0.0 to 3.0	3.0 to 25.0	25.0 to 45.0	
MW-4	Jul-92	38.35	40	8	40	2	PVC	0.02	20.0 to 40.0	0.0 to 17.0	17.0 to 18.0	18.0 to 40.0	
MW-6	Jul-92	51.05*	40	8	40	2	PVC	0.02	20.0 to 40.0	0.0 to 17.0	17.0 to 18.0	18.0 to 40.0	
MW-7	Oct-94	38.99	45	8	45	2	PVC	0.02	25.0 to 45.0	0.0 to 21.0	21.0 to 23.0	23.0 to 45.0	
MW-8	Oct-94	38.44	40	8	40	2	PVC	0.02	25.0 to 40.0	0.0 to 21.0	21.0 to 23.0	23.0 to 40.0	
MW-9	Oct-94	38.63	40	8	40	2	PVC	0.02	25.0 to 40.0	0.0 to 21.0	21.0 to 23.0	23.0 to 40.0	
MW-10	Jul-97	40.45	37.5	8	35	2	PVC	0.02	15.0 to 35.0	0.0 to 13.0	13.0 to 14.0	14.0 to 37.5	
MW-11	Nov-07	37.64	40	10	40	4	PVC	0.02	15.0 to 40.0	0.0 to 10.0	10.0 to 13.0	13.0 to 40.0	Graphic log indicates TD = 35 ft bgs

TABLE 1
SOIL BORING AND MONITORING WELL CONSTRUCTION DETAILS
76 (FORMER BP) SERVICE STATION NO. 11117
7210 BANCROFT AVENUE
OAKLAND, CALIFORNIA

Updated 5/24/2011

Boring/Well ID	Well/Boring Completion Date	TOC Elevation[1] (ft)	Borehole Depth (ft bgs)	Borehole Diameter (in)	Well Depth (ft)	Well Casing Diameter (in)	Well Casing Material	Well Screen Slot Size (in)	Well Screen Interval (ft bgs)	Cement Grout Seal Interval (ft bgs)	Bentonite Seal Interval (ft bgs)	Filter Pack Interval (ft bgs)	Comments
Remediation Wells													
EX-1	Nov-99	38.98	39.5	10	40	4	PVC	0.02	18.0 to 38.0	0.0 to 15.0	15.0 to 16.0	16.0 to 39.5	
EX-2	Nov-99	39.63	36.5	10	40	4	PVC	0.02	15.0 to 35.0	0.0 to 13.0	13.0 to 13.0	13.0 to 36.5	
DPE-1	Nov-07	38.95	40	10	38	4	PVC	0.02	15.0 to 40.0	0.0 to 10.0	10.0 to 13.0	13.0 to 40.0	
DPE-2	Nov-07	37.64	40	10	40	4	PVC	0.02	15.0 to 40.0	0.0 to 10.0	10.0 to 13.0	13.0 to 40.0	
DPE-3	Nov-07	37.82	40	10	40	4	PVC	0.02	13.0 to 38.0	0.0 to 8.0	8.0 to 11.0	11.0 to 40.0	
DPE-4	Nov-07	38.46	45	10	38	4	PVC	0.01	15.0 to 40.0	0.0 to 10.0	10.0 to 13.0	13.0 to 45.0	Installed in same borehole as destroyed well MW-2
DPE-5	Nov-07	38.23	40	10	35	4	PVC	0.01	15.0 to 40.0	0.0 to 10.0	10.0 to 13.0	13.0 to 40.0	Log indicates Screen Interval at 15-38 ft bgs

Notes:

ft = feet
in = inches
TOC = Top of Casing
bgs = below ground surface
NA = not applicable

B = soil boring
A = hydropunch boring
CPT = cone pentrometer boring
MW = monitoring well
EX = extraction well
DPE = extraction well

[1] = TOC Elevations were surveyed to a local datum on the following dates:
MW-1 through MW-6 -- January 1, 1992 and July 27, 1992 by HETI
MW-1, MW-3, MW4, MW-7 through MW-11, EX-1, EX-2, DPE-1 through DPE-5 -- December 3, 2007 by Morrow Surveying

* = Wells not included in 2007 re-surveying.

TABLE 2
CURRENT GROUNDWATER GAUGING AND ANALYTICAL DATA
76 (FORMER BP) SERVICE STATION NO. 2611117
7210 BANCROFT AVENUE
OAKLAND, CALIFORNIA

Well I.D.	Date	GROUNDWATER GAUGING DATA				GROUNDWATER ANALYTICAL DATA												
		TOC Elevation (ft)	Depth to Water (ft)	LNAPL Thickness (ft)	Water Elevation* (ft)	GRO (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)
DPE-1	8/15/2011	38.95	16.46	NP	22.49	571	16.4	5.4	6.3	12.0	1.1	<0.50	<0.50	<0.50	140	<250	<1.0	<1.0
DPE-2	8/15/2011	37.64	15.29	NP	22.35	--	--	--	--	--	--	--	--	--	--	--	--	--
DPE-3	8/15/2011	37.82	15.59	NP	22.23	--	--	--	--	--	--	--	--	--	--	--	--	--
DPE-4	8/15/2011	38.46	16.15	NP	22.31	57600	5920	7240	3830	12100	5560	<0.50	12.2	132	6920	<250	<1.0	<1.0
DPE-5	8/15/2011	38.23	15.96	NP	22.27	15900	2420	127	1340	1650	773	<0.50	1.2	10.0	2510	<250	<1.0	<1.0
EX-1	8/15/2011	38.98	16.21	NP	22.77	1470	470	516 (D4)	472	1270	54.2	<5.0	<5.0	17.8	188	<2500	<10.0	13.3
EX-2*	8/15/2011	39.63	16.39	NP	23.24	<50.0	<0.50	<0.50	<0.50	<1.5	3.6	<0.50	<0.50	<0.50	<5.0	<250	<1.0	<1.0
MW-1	8/15/2011	37.41	15.40	NP	22.01	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	8/15/2011	37.56	15.56	NP	22.00	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	8/15/2011	38.35	16.06	NP	22.29	87600	3430	280	2880	8500	317	<12.5	<12.5	<12.5	3410	<6250	<25.0	<25.0
MW-6	8/15/2011	51.05	16.07	NP	34.98**	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	8/15/2011	38.99	16.28	NP	22.71	<50.0	<0.50	<0.50	<0.50	<1.5	14.8	<0.50	<0.50	<0.50	13.1	<250	<1.0	<1.0
MW-8	8/15/2011	38.44	15.83	NP	22.61	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	8/15/2011	38.63	VO	VO	VO	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-10*	8/15/2011	40.45	17.76	NP	22.69	<50.0	<0.50	<0.50	<0.50	<1.5	13.8	<0.50	<0.50	<0.50	13.1	<250	<1.0	<1.0
MW-11	8/15/2011	37.64	14.58	NP	23.06	1530	<0.50	0.80	9.2	8.0	<0.50	<0.50	<0.50	<0.50	<5.0	<250	<1.0	<1.0
TB-1	8/15/2011	--	--	--	--	<50.0	<0.50	0.80	<0.50	<1.5	<0.50	<0.50	<0.50	<0.50	<5.0	<250	<1.0	<1.0

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)
VO - Unable to locate
-- - No information available
* - Samples from wells EX-2 and MW-10 were collected without purging
**MW-6 is not surveyed to the same datum as the other wells
TB-1 = Trip Blank

Analytical Notes:
< - Not detected at or above indicated laboratory reporting limit
ug/L - micrograms/liter
DRO- diesel range organics
GRO- gasoline range organics
MTBE- Methyl tertiary-butyl ether
TBA- Tertiary-butyl alcohol
DIPE- Di-isopropyl ether
ETBE- Ethyl tertiary-butyl ether
TAME- Tertiary-amyl methyl ether

Analyte Qualifiers:
D4 - Sample was diluted due to the presence of high levels of target analytes.

TABLE 2a
ADDITIONAL CURRENT GROUNDWATER ANALYTICAL DATA
76 (FORMER BP) SERVICE STATION NO. 2611117
7210 BANCROFT AVE
OAKLAND, CALIFORNIA

Well I.D.	Date	GROUNDWATER ANALYTICAL DATA																		
		Biochemical Oxygen Demand (ug/L)	Chemical Oxygen Demand (ug/L)	Chloride (ug/L)	Chromium (ug/L)	Chromium, Hexavalent (ug/L)	Iron SW6010 T (ug/L)	Iron, Ferric (ug/L)	Iron, Ferrous A3500D (ug/L)	Methane (ug/L)	Nitrate as N (ug/L)	Nitrite as N (ug/L)	Nitrogen (ug/L)	Nitrogen, Ammonia (ug/L)	Nitrogen, NO2 plus NO3 (ug/L)	Phosphate, Ortho (ug/L)	Phosphorous (ug/L)	Sulfate (ug/L)	Sulfide (ug/L)	Total Organic Carbon (ug/L)
DPE-1	8/15/2011	4560	27900	25200	0.66	<0.2	11100	9490	1600	1500	108	13.1	<1000	<100	121	219	236	14300	1040	3640
DPE-4	8/15/2011	55000	113000	26400	4	<0.2	10800	3230	7600	16100 (E)	<50.0	39.6	1770	<100	62.1	502	732	<1000	1080	14000
DPE-5	8/15/2011	21200	53900	32100	28	<0.2	20500	14000	6500	13900 (E)	<50.0	28.8	1320	<100	<50.0	240	134 (3n)	<1000	1600	9360
EX-1	8/15/2011	8680	29800	19100	2.9	<0.2	1420	<100	1400	5040	52.9	<10.0	1120	185	59.7	148	107 (3n)	3830	1080	11600
EX-2	8/15/2011	579000 (2n)	7420	17100	2.2	<0.2	932	932	<100	208	12100	<10.0	<1000	<100	12100	162	106 (3n)	17600	760	2010

Analytical Notes:
-- - No information available
< - Not detected at or above indicated laboratory reporting limit
NS - Well not sampled.
ug/L - micrograms/liter

Analyte Qualifiers:
2n - High bias (confirmed with secondary analysis) due to matrix interference.
3n - Matrix interference noted for this sample.
E - Analyte concentration exceeded the calibration range. The reported result is estimated.

TABLE 3
HISTORICAL GROUNDWATER GAUGING AND ANALYTICAL DATA
76 (FORMER BP) SERVICE STATION NO. 2611117
7210 BANCROFT 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)	DRO (ug/L)	GRO (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)
DPE-1	12/14/2007	38.95	21.62	NP	17.33	--	360	24	<0.5	3.4	<0.5	--	<0.5	3.4	<0.5	1300	<300	<0.5	<0.5
	2/12/2008	38.95	16.13	NP	22.82	--	4700	2000	310	130	360	--	<10	<10	<10	3900	<2000	<10	<10
	5/22/2008	38.95	18.03	NP	20.92	--	16000	3900	94	510	1700	--	<40	<40	<40	4400	<24000	<40	<40
	8/25/2008	38.95	20.95	NP	18.00	--	1300	250	<20	<20	<20	--	<20	<20	<20	4000	<12000	<20	<20
	12/17/2008	38.95	22.33	NP	16.62	--	480	<5	<5	<5	<5	--	<5	<5	<5	1200	<3000	<5	<5
	2/25/2009	38.95	18.15	NP	20.80	--	1100	170	<10	<10	<10	<10	--	--	--	--	--	--	--
	8/15/2011	38.95	16.46	NP	22.49	--	571	16.4	5.4	6.3	12.0	1.1	<0.50	<0.50	<0.50	140	<250	<1.0	<1.0
DPE-2	12/14/2007	37.64	20.09	NP	17.55	--	2500	1.2	0.99	12	32	--	<0.5	<0.5	<0.5	<20	<300	<0.5	<0.5
	2/12/2008	37.64	14.35	NP	23.29	--	1100	9.1	9.3	33	91	--	<0.5	<0.5	<0.5	<10	<100	<0.5	<0.5
	5/22/2008	37.64	16.60	NP	21.04	--	1000	1.2	3.7	11	18	--	<0.5	<0.5	<0.5	<10	<300	<0.5	<0.5
	8/25/2008	37.64	19.47	NP	18.17	--	780	0.52	<0.5	7.1	6.6	--	<0.5	<0.5	<0.5	<10	<300	<0.5	<0.5
	12/17/2008	37.64	21.35	NP	16.29	--	21000	230	180	630	1900	--	<10	<10	<10	<200	<6000	<10	<10
	2/25/2009	37.64	16.60	NP	21.04	--	16000	170	180	580	1500	<10	--	--	--	--	--	--	--
	8/15/2011	37.64	15.29	NP	22.35	--	--	--	--	--	--	--	--	--	--	--	--	--	--
DPE-3	12/14/2007	37.82	20.45	NP	17.37	--	1300	1800	840	830	1200	--	<25	<25	<25	1700	<15000	<25	<25
	2/12/2008	37.82	14.88	NP	22.94	--	50	31	55	140	300	--	<5	<5	<5	<100	<1000	<5	<5
	5/22/2008	37.82	16.92	NP	20.90	--	800	950	160	890	330	--	<20	<20	<20	<400	<12000	<20	<20
	8/25/2008	37.82	19.77	NP	18.05	--	3900	8.5	21	91	260	--	<2.5	<2.5	<2.5	<50	<1500	<2.5	<2.5
	12/17/2008	37.82	21.61	NP	16.21	--	24000	410	210	980	2900	--	<20	<20	<20	<400	<12000	<20	<20
	2/25/2009	37.82	17.18	NP	20.64	--	4400	22	12	130	150	<2.5	--	--	--	--	--	--	--
	8/15/2011	37.82	15.59	NP	22.23	--	--	--	--	--	--	--	--	--	--	--	--	--	--
DPE-4	12/14/2007	38.46	21.00	NP	17.46	--	510000	12000	27000	4900	27000	--	<500	<500	<500	<20000	<300000	<500	<500
	2/12/2008	38.46	15.43	NP	23.03	--	100000	6600	21000	3800	22000	--	<50	<50	55	<1000	<10000	<50	<50
	5/22/2008	38.46	17.38	NP	21.08	--	130000	9700	26000	5000	28000	--	<400	<400	<400	<8000	<240000	<400	<400
	8/25/2008	38.46	20.36	NP	18.10	--	190000	9100	19000	4100	22000	--	<400	<400	<400	<8000	<240000	<400	<400
	12/17/2008	38.46	21.89	NP	16.57	--	160000	10000	20000	4500	22000	--	<400	<400	<400	<8000	<240000	<400	<400
	2/25/2009	38.46	17.59	NP	20.87	--	130000	9900	21000	4600	22000	4500	--	--	--	--	--	--	--
	8/15/2011	38.46	16.15	NP	22.31	--	57600	5920	7240	3830	12100	5560	<0.50	12.2	132	6920	<250	<1.0	<1.0
DPE-5	12/14/2007	38.23	20.86	NP	17.37	--	300000	9200	4100	4600	20000	--	<500	<500	<500	<20000	<300000	<500	<500
	2/12/2008	38.23	15.20	NP	23.03	--	63000	5600	2200	3400	12000	--	<50	<50	<50	2000	<10000	<50	<50
	5/22/2008	38.23	17.37	NP	20.86	--	34000	6800	620	2600	6000	--	<200	<200	<200	4500	<120000	<200	<200
	8/25/2008	38.23	21.80	NP	16.43	--	40000	5200	940	2100	5400	--	<100	<100	<100	5100	<60000	<100	<100
	12/17/2008	38.23	21.96	NP	16.27	--	33000	4800	130	1700	2500	--	<100	<100	<100	6100	<60000	<100	<100
	2/25/2009	38.23	17.47	NP	20.76	--	50000	6600	590	2300	6100	3100	--	--	--	--	--	--	--
	8/15/2011	38.23	15.96	NP	22.27	--	15900	2420	127	1340	1650	773	<0.50	1.2	10.0	2510	<250	<1.0	<1.0
EX-1	5/4/2004	NSVD	16.29	NP	NSVD	--	12000	2300	430	740	1100	--	<25	<25	38	<1000	<5000	<25	<25
	8/31/2004	NSVD	19.39	NP	NSVD	--	13000	2500	95	650	1500	--	<50	<50	<50	<2000	<10000	<50	<50
	11/23/2004	NSVD	17.90	NP	NSVD	--	13000	2700	94	460	1700	--	<25	<25	74	<1000	<5000	<25	<25
	1/18/2005	NSVD	14.20	NP	NSVD	--	16000	2100	390	570	2500	--	<25	<25	54	<1000	<5000	<25	<25
	6/29/2005	NSVD	14.22	NP	NSVD	--	6400	1100	52	280	790	--	<25	<25	30	<1000	<5000	<25	<25
	9/1/2005	NSVD	17.22	NP	NSVD	--	7900	2000	94	400	870	--	<25	<25	46	<1000	<5000	<25	<25
	11/3/2005	NSVD	19.92	NP	NSVD	--	22000	3200	640	550	3300	--	<25	<25	87	<1000	<5000	<25	<25
	2/14/2006	NSVD	15.40	NP	NSVD	--	3500	<25	<25	<25	74	--	<25	<25	<25	<1000	<15000	<25	<25
	5/30/2006	NSVD	13.43	NP	NSVD	--	8600	1400	120	490	1300	--	<25	<25	37	<1000	<15000	<25	<25
	8/29/2006	NSVD	17.74	NP	NSVD	--	22000	2900	210	1400	3600	--	<25	<25	56	<1000	<15000	<25	<25
	11/29/2006	NSVD	20.25	NP	NSVD	--	15000	4000	110	770	2700	--	<50	<50	75	<2000	<30000	<50	<50
	2/20/2007	NSVD	16.75	NP	NSVD	--	10000	2500	<50	550	1300	--	<50	<50	<50	<2000	<30000	<50	<50
	5/25/2007	NSVD	17.04	NP	NSVD	--	8600	2100	88	700	1400	--	<50	<50	<50	<2000	<30000	<50	<50
	8/9/2007	NSVD	19.76	NP	NSVD	--	4800	870	40	230	460	--	<10	<10	15	440	<6000	<10	<10
	11/9/2007	NSVD	21.57	NP	NSVD	--	5300	2700	29	220	200	--	<25	<25	<25	1900	<15000	<25	<25
	12/14/2007	38.98	21.60	NP	17.38	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/12/2008	38.98	15.92	NP	23.06	--	19000	2500	<50	360	860	320	<50	<50	<50	2200	<10000	<50	<50

TABLE 3
HISTORICAL GROUNDWATER GAUGING AND ANALYTICAL DATA
76 (FORMER BP) SERVICE STATION NO. 2611117
7210 BANCROFT 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)	DRO (ug/L)	GRO (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)
EX-1	5/22/2008	38.98	17.85	NP	21.13	--	9300	1600	<50	310	1100	970	<50	<50	<50	<1000	<30000	<50	<50
	8/25/2008	38.98	20.71	NP	18.27	--	6100	1100	29	360	370	430	<25	<25	<25	830	<15000	<25	<25
	12/17/2008	38.98	22.20	NP	16.78	--	11000	1400	47	720	360	690	<25	<25	<25	980	<15000	<25	<25
	2/25/2009	38.98	18.01	NP	20.97	--	3300	880	110	190	120	440	--	--	--	--	--	--	--
	5/21/2009	38.98	17.10	NP	21.88	--	5000	2100	100	350	89	570	--	--	--	--	--	--	--
	8/14/2009	38.98	20.55	NP	18.43	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	2/10/2010	38.98	15.61	NP	23.37	--	4040	308	488	393	975	133	<0.50	<0.50	<0.50	43.7	<250	<1.0	<1.0
	8/20/2010	38.98	17.44	NP	21.54	--	14600	1090	1610	1030	3360	267	<0.50	0.78	8.9	275	<250	<1.0	<1.0
	2/7/2011	38.98	15.20	NP	23.78	--	15900	642	1100	846	2500	364	<0.50	0.78	9.3	151	<250	<1.0	<1.0
	8/15/2011	38.98	16.21	NP	22.77	--	1470	470	516	472	1270	54.2	<5.0	<5.0	17.8	188	<2500	<10.0	13.3
EX-2	5/4/2004	NSVD	16.65	NP	NSVD	--	<50	0.63	<0.5	<0.5	0.66	--	<0.5	<0.5	<0.5	<20	<100	<0.5	<0.5
	8/31/2004	NSVD	19.90	NP	NSVD	--	<250	<2.5	<2.5	<2.5	<2.5	--	<2.5	<2.5	3.4	<100	<500	<2.5	<2.5
	11/23/2004	NSVD	18.36	NP	NSVD	--	<50	0.74	<0.5	0.83	3	--	<0.5	<0.5	<0.5	<20	<100	<0.5	<0.5
	1/18/2005	NSVD	14.67	NP	NSVD	--	<50	<0.5	<0.5	<0.5	0.69	--	<0.5	<0.5	<0.5	<20	<100	<0.5	<0.5
	6/29/2005	NSVD	14.60	NP	NSVD	--	<50	<0.5	<0.5	<0.5	0.5	--	<0.5	<0.5	<0.5	<20	<100	<0.5	<0.5
	9/1/2005	NSVD	17.28	NP	NSVD	--	<50	<0.5	1.4	<0.5	1.4	--	<0.5	<0.5	0.56	<20	<100	<0.5	<0.5
	11/3/2005	NSVD	20.42	NP	NSVD	--	<50	0.5	<0.5	<0.5	1.4	--	<0.5	<0.5	0.8	<20	<100	<0.5	<0.5
	2/14/2006	NSVD	14.54	NP	NSVD	--	220	<0.5	3.2	7.5	33	--	<0.5	<0.5	<0.5	<20	<300	<0.5	<0.5
	5/30/2006	NSVD	13.35	NP	NSVD	--	<50	<0.5	<0.5	<0.5	0.7	--	<0.5	<0.5	<0.5	<20	<300	<0.5	<0.5
	8/29/2006	NSVD	17.92	NP	NSVD	--	66	0.67	<0.5	0.79	1.9	--	<0.5	<0.5	0.98	<20	<300	<0.5	<0.5
	11/29/2006	NSVD	20.63	NP	NSVD	--	<50	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<20	<300	<0.5	<0.5
	2/20/2007	NSVD	17.58	NP	NSVD	--	<50	<0.5	<0.5	<0.5	2	--	<0.5	<0.5	<0.5	<20	<300	<0.5	<0.5
	5/25/2007	NSVD	17.23	0.01	NSVD	--	<50	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<20	<300	<0.5	<0.5
	8/9/2007	NSVD	20.40	NP	NSVD	--	<50	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<20	<300	<0.5	<0.5
	11/9/2007	NSVD	22.07	NP	NSVD	--	120	<0.5	0.53	0.57	2.7	--	<0.5	<0.5	<0.5	<20	<300	<0.5	<0.5
	12/14/2007	39.63	21.97	NP	17.66	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/12/2008	39.63	16.73	NP	22.90	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<100	<0.5	<0.5
	5/22/2008	39.63	18.09	NP	21.54	--	<50	<0.5	2.4	0.95	5.5	0.54	<0.5	<0.5	<0.5	<10	<300	<0.5	<0.5
	8/25/2008	39.63	21.51	NP	18.12	--	<50	<0.5	<0.5	<0.5	<0.5	1	<0.5	<0.5	<0.5	<10	<300	<0.5	<0.5
	12/17/2008	39.63	NG	NG	NG	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/25/2009	39.63	16.79	NP	22.84	--	<50	<0.50	<0.50	<0.50	<0.50	0.58	--	--	--	--	--	--	--
	5/21/2009	39.63	18.56	NP	21.07	--	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	--	--	--	--	--	--
	8/14/2009	39.63	21.00	NP	18.63	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	2/10/2010	39.63	16.11	NP	23.52	--	<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
	8/20/2010	39.63	17.20	NP	22.43	--	<50.0	<0.50	<0.50	<0.50	<1.5	26.1	<0.50	<0.50	<0.50	5.6	<250	<1.0	<1.0
	2/7/2011	39.63	15.59	NP	24.04	--	<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
	8/15/2011	39.63	16.39	NP	23.24	--	<50.0	<0.50	<0.50	<0.50	<1.5	3.6	<0.50	<0.50	<0.50	<5.0	<250	<1.0	<1.0
MW-1	1/5/1992	49.80	33.16	NP	16.64	50000	57000	2400	1000	1100	3100	--	--	--	--	--	--	--	--
	1/10/1992	49.80	33.16	NP	16.64	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	6/5/1992	49.80	29.01	NP	20.79	--	31000	2800	2100	800	2300	--	--	--	--	--	--	--	--
	7/24/1992	49.80	29.45	NP	20.35	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	7/27/1992	49.80	29.45	NP	20.35	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/15/1992	49.80	30.53	NP	19.27	1200	40000	3400	3000	1300	3400	--	--	--	--	--	--	--	--
	12/15/1992	49.80	31.26	NP	18.54	1100	27000	1700	580	700	1900	--	--	--	--	--	--	--	--
	3/15/1993	49.80	24.80	NP	25.00	580	17000	1700	1200	590	1800	--	--	--	--	--	--	--	--
	6/7/1993	49.80	25.01	NP	24.79	100	750	0.8	0.8	<0.5	<0.5	--	--	--	--	--	--	--	--
	9/23/1993	49.80	28.70	NP	21.10	770	40000	4000	500	920	3000	--	--	--	--	--	--	--	--
	12/27/1993	49.80	28.66	NP	21.14	--	27000	2000	400	940	2600	--	--	--	--	--	--	--	--
	4/5/1994	49.80	26.37	NP	23.43	--	27000	3400	930	950	2900	--	--	--	--	--	--	--	--
	7/22/1994	49.80	26.54	NP	23.26	--	1700	220	2.3	2	3.4	--	--	--	--	--	--	--	--
	10/13/1994	49.80	27.46	NP	22.34	--	1200	250	21	<0.5	3.2	--	--	--	--	--	--	--	--
	1/25/1995	49.80	20.96	NP	28.84	--	1000	420	8	13	4	--	--	--	--	--	--	--	--

TABLE 3
HISTORICAL GROUNDWATER GAUGING AND ANALYTICAL DATA
76 (FORMER BP) SERVICE STATION NO. 2611117
7210 BANCROFT 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)	DRO (ug/L)	GRO (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)
MW-1	4/19/1995	49.80	19.59	NP	30.21	--	5200	420	51	230	340	--	--	--	--	--	--	--	--
	7/5/1995	49.80	19.61	NP	30.19	--	320	4.2	<0.5	<0.5	<1	--	--	--	--	--	--	--	--
	10/5/1995	49.80	24.40	NP	25.40	--	5800	1000	40	31	180	--	--	--	--	--	--	--	--
	1/12/1996	49.80	25.44	NP	24.36	--	370	<0.5	<0.5	<0.5	<1	--	--	--	--	--	--	--	--
	4/22/1996	49.80	18.02	NP	31.78	--	<50	<0.5	<1	<1	<1	--	--	--	--	--	--	--	--
	7/2/1996	49.80	19.72	NP	30.08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	7/3/1996	49.80	NG	NG	NG	--	<250	<2.5	<5	<5	<5	--	--	--	--	--	--	--	--
	11/8/1996	49.80	19.98	NP	29.82	--	<50	<0.5	<1	<1	<1	--	--	--	--	--	--	--	--
	1/3/1997	49.80	19.49	NP	30.31	--	<50	<0.5	14	<1	<1	--	--	--	--	--	--	--	--
	4/28/1997	49.80	20.20	NP	29.60	--	<50	<0.5	<1	<1	<1	--	--	--	--	--	--	--	--
	7/1/1997	49.80	22.53	NP	27.27	--	<50	<0.5	<1	<1	<1	--	--	--	--	--	--	--	--
	10/2/1997	49.80	24.27	NP	25.53	--	<50	<0.5	<1	<1	<1	--	--	--	--	--	--	--	--
	1/9/1998	49.80	21.07	NP	28.73	--	<50	<0.5	<1	<1	<1	--	--	--	--	--	--	--	--
	5/6/1998	49.80	14.94	NP	34.86	--	60	<0.5	<1	<1	<1	--	--	--	--	--	--	--	--
	7/21/1998	49.80	15.11	NP	34.69	--	70	<0.5	<1	<1	<1	--	--	--	--	--	--	--	--
	12/30/1998	49.80	19.95	NP	29.85	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/2/1999	49.80	19.12	NP	30.68	--	420	<1	<1	<1	<1	--	--	--	--	--	--	--	--
	5/10/1999	49.80	15.51	NP	34.29	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/23/1999	49.80	21.65	NP	28.15	--	440	49	<1	<1	<1	--	--	--	--	--	--	--	--
	12/23/1999	49.80	22.32	NP	27.48	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/27/2000	49.80	15.72	NP	34.08	--	2500	230	3	83	36	--	--	--	--	--	--	--	--
	5/22/2000	49.80	16.92	NP	32.88	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8/31/2000	49.80	20.12	NP	29.68	--	1700	18	5.5	7.9	5	--	--	--	--	--	--	--	--
	12/11/2000	49.80	20.72	NP	29.08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/20/2001	49.80	15.91	NP	33.89	--	880	38.2	<0.5	24.1	<1.5	--	--	--	--	--	--	--	--
	6/19/2001	49.80	18.38	NP	31.42	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/20/2001	49.80	21.23	NP	28.57	--	3200	400	19.8	42	32.5	--	--	--	--	--	--	--	--
	12/27/2001	49.80	16.72	NP	33.08	--	750	70.1	0.536	4.74	3.76	--	--	--	--	--	--	--	--
	2/28/2002	49.80	15.25	NP	34.55	--	<50	<0.5	<0.5	<0.5	<1	--	--	--	--	--	--	--	--
	6/28/2002	49.80	16.57	NP	33.23	--	110	0.977	<0.5	0.818	<1	--	--	--	--	--	--	--	--
	9/12/2002	49.80	18.41	NP	31.39	--	98	2.7	1.5	1.5	5.4	--	--	--	--	--	--	--	--
	12/12/2002	49.80	20.26	NP	29.54	--	210	1.9	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--
	3/10/2003	49.80	16.22	NP	33.58	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--
	5/12/2003	49.80	14.30	NP	35.50	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--
	8/27/2003	49.80	18.15	NP	31.65	--	<50	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<20	<100	--	--
	11/10/2003	49.80	19.24	NP	30.56	--	<50	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<20	<100	--	--
	2/3/2004	49.80	14.84	NP	34.96	--	<50	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<20	<100	<0.5	<0.5
	5/4/2004	49.80	14.67	NP	35.13	--	<50	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<20	<100	<0.5	<0.5
	8/31/2004	49.80	17.75	NP	32.05	--	<50	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<20	<100	<0.5	<0.5
	11/23/2004	49.80	16.03	NP	33.77	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	1/18/2005	49.80	12.47	NP	37.33	--	<50	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<20	<100	<0.5	<0.5
	6/29/2005	49.80	12.65	NP	37.15	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/1/2005	49.80	15.79	NP	34.01	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/3/2005	49.80	18.55	NP	31.25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/14/2006	49.80	12.29	NP	37.51	--	51	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<20	<300	<0.5	<0.5
	5/30/2006	49.80	12.15	NP	37.65	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8/29/2006	49.80	16.37	NP	33.43	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/29/2006	49.80	18.73	NP	31.07	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/20/2007	49.80	14.71	NP	35.09	--	110	<0.5	<0.5	0.58	<0.5	--	--	--	--	--	--	--	--

TABLE 3
HISTORICAL GROUNDWATER GAUGING AND ANALYTICAL DATA
76 (FORMER BP) SERVICE STATION NO. 2611117
7210 BANCROFT 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)	DRO (ug/L)	GRO (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)
MW-1	5/25/2007	49.80	15.59	NP	34.21	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8/9/2007	49.80	18.38	NP	31.42	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/9/2007	49.80	20.00	NP	29.80	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/14/2007	37.41	19.83	NP	17.58	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/12/2008	37.41	14.00	NP	23.41	--	100	<0.5	<0.5	0.55	<0.5	--	--	--	--	--	--	--	--
	5/22/2008	37.41	16.31	NP	21.10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8/25/2008	37.41	19.20	NP	18.21	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/17/2008	37.41	NG	NG	NG	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/25/2009	37.41	16.30	NP	21.11	--	370	<0.50	<0.50	0.79	<0.50	<0.50	--	--	--	--	--	--	--
	5/21/2009	37.41	15.97	NP	21.44	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	8/14/2009	37.41	19.30	NP	18.11	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	2/10/2010	37.41	14.37	NP	23.04	--	<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
	8/20/2010	37.41	15.72	NP	21.69	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	2/7/2011	37.41	14.02	NP	23.39	--	<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
	8/15/2011	37.41	15.40	NP	22.01	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	1/5/1992	49.95	NG	NG	NG	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	1/10/1992	49.95	NG	NG	NG	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	6/5/1992	49.95	30.05	NP	19.90	--	11000	2000	180	490	1900	--	--	--	--	--	--	--	--
	7/24/1992	49.95	30.72	NP	19.23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	7/27/1992	49.95	30.52	NP	19.43	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/15/1992	49.95	31.56	NP	18.39	3200	75000	2000	6500	2300	13000	--	--	--	--	--	--	--	--
	12/15/1992	49.95	32.40	NP	17.55	1600	34000	6200	8900	2000	7900	--	--	--	--	--	--	--	--
	3/15/1993	49.95	26.14	NP	23.81	8400	150000	12000	18000	3200	22000	--	--	--	--	--	--	--	--
	6/7/1993	49.95	26.38	NP	23.57	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/23/1993	49.95	31.43	1.92	19.96	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/27/1993	49.95	34.07	1.07	16.68	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	4/5/1994	49.95	30.44	3.30	21.99	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	7/22/1994	49.95	28.51	0.80	22.04	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	10/13/1994	49.95	29.33	0.70	21.15	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	1/25/1995	49.95	25.55	4.25	27.59	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	4/19/1995	49.95	19.78	0.12	30.26	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	7/5/1995	49.95	20.88	0.09	29.14	--	140000	14000	30000	3500	26000	--	--	--	--	--	--	--	--
	10/5/1995	49.95	24.68	0.10	25.35	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	1/12/1996	49.95	25.72	0.06	24.28	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	4/22/1996	49.95	19.33	0.08	30.68	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	7/2/1996	49.95	20.01	0.04	29.97	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/8/1996	49.95	20.28	0.01	29.68	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	1/3/1997	49.95	19.87	0.02	30.10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	4/28/1997	49.95	20.59	0.01	29.37	--	560000	1200	1300	290	2310	--	--	--	--	--	--	--	--
	7/1/1997	49.95	22.90	0.01	27.06	--	24000	15000	16000	4900	24400	--	--	--	--	--	--	--	--
	10/2/1997	49.95	24.65	0.02	25.32	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	10/3/1997	49.95	NG	NG	NG	--	250000	32000	39000	6000	42000	--	--	--	--	--	--	--	--
	1/9/1998	49.95	21.22	0.01	28.74	--	420000	23000	29000	5800	43000	--	--	--	--	--	--	--	--
	2/2/1998	49.95	20.11	NP	29.84	--	410000	27000	43000	6700	50000	--	--	--	--	--	--	--	--
	5/6/1998	49.95	15.10	0.01	34.86	--	180000	25000	26000	3400	22900	--	--	--	--	--	--	--	--
	7/21/1998	49.95	15.31	0.01	34.65	--	270000	21000	20000	2700	18800	--	--	--	--	--	--	--	--
	12/30/1998	49.95	21.10	0.10	28.93	--	300000	22000	24000	4200	26000	95000	--	--	--	--	--	--	--
	5/10/1999	49.95	16.68	NP	33.27	--	220000	20000	20000	2800	20000	--	--	--	--	--	--	--	--
	9/23/1999	49.95	22.50	NP	27.45	--	160000	21000	24000	2900	20000	--	--	--	--	--	--	--	--
	12/23/1999	49.95	22.64	NP	27.31	--	170000	25000	41000	3100	24000	--	--	--	--	--	--	--	--
	3/27/2000	49.95	16.88	NP	33.07	--	140000	15000	25000	3400	21000	--	--	--	--	--	--	--	--
	5/22/2000	49.95	17.75	NP	32.20	--	150000	18000	31000	3500	22000	--	--	--	--	--	--	--	--

TABLE 3
HISTORICAL GROUNDWATER GAUGING AND ANALYTICAL DATA
76 (FORMER BP) SERVICE STATION NO. 2611117
7210 BANCROFT 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)	DRO (ug/L)	GRO (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)
MW-2	8/31/2000	49.95	21.97	NP	27.98	--	200000	16000	26000	2500	16000	--	--	--	--	--	--	--	--
	12/11/2000	49.95	22.05	NP	27.90	--	130000	18600	30000	3250	20600	--	--	--	--	--	--	--	--
	3/20/2001	49.95	17.75	NP	32.20	--	140000	15900	24800	3700	22100	--	--	--	--	--	--	--	--
	6/19/2001	49.95	20.15	NP	29.80	--	130000	15100	19500	3300	21400	--	--	--	--	--	--	--	--
	9/20/2001	49.95	22.14	NP	27.81	--	110000	12400	12600	2230	13000	--	--	--	--	--	--	--	--
	12/27/2001	49.95	18.17	NP	31.78	--	150000	17500	26000	3050	19500	--	--	--	--	--	--	--	--
	2/28/2002	49.95	17.42	NP	32.53	--	120000	13900	18800	3030	19600	--	--	--	--	--	--	--	--
	6/28/2002	49.95	17.04	NP	32.91	--	3700	190	23.3	139	287	--	--	--	--	--	--	--	--
	9/12/2002	49.95	19.52	NP	30.43	--	100000	13000	22000	3600	20000	--	--	--	--	--	--	--	--
	12/12/2002	49.95	21.08	NP	28.87	--	120000	13000	21000	4400	25000	--	--	--	--	--	--	--	--
	3/10/2003	49.95	17.84	NP	32.11	--	100000	17000	21000	3400	20000	--	--	--	--	--	--	--	--
	5/12/2003	49.95	16.66	NP	33.29	--	150000	16000	24000	3500	22000	--	--	--	--	--	--	--	--
	8/27/2003	49.95	19.65	NP	30.30	--	120000	14000	12000	3900	20000	--	<120	<120	140	<5000	<25000	--	--
	11/10/2003	49.95	20.80	NP	29.15	--	97000	12000	9500	3600	15000	--	<250	<250	<250	<10000	<50000	--	--
	2/3/2004	49.95	16.82	NP	33.13	--	130000	14000	19000	3400	20000	--	--	--	--	--	--	--	--
	5/4/2004	49.95	16.19	NP	33.76	--	120000	12000	16000	3700	22000	--	<250	<250	<250	<10000	<50000	<250	<250
	8/31/2004	49.95	19.50	NP	30.45	--	99000	10000	13000	3700	18000	--	--	--	--	--	--	--	--
	11/23/2004	49.95	18.20	NP	31.75	--	110000	8200	17000	4000	23000	--	<250	<250	<250	<10000	<50000	<250	<250
	1/18/2005	49.95	14.91	NP	35.04	--	96000	6500	14000	3500	21000	--	<100	<100	<100	<4000	<20000	<100	<100
	6/29/2005	49.95	13.98	NP	35.97	--	54000	6200	4900	3300	12000	--	--	--	--	--	--	--	--
	9/1/2005	49.95	17.00	NP	32.95	--	58000	6300	6000	3300	15000	--	<100	<100	100	<4000	<20000	<100	<100
	11/3/2005	49.95	20.25	NP	29.70	--	63000	7400	3700	3300	10000	--	<100	<100	100	<4000	<20000	<100	<100
	2/14/2006	49.95	13.72	NP	36.23	--	97000	7500	11000	4300	16000	--	<100	<100	<100	<4000	<60000	<100	<100
	5/30/2006	49.95	13.50	NP	36.45	--	28000	5200	2500	1500	3300	--	<100	<100	<100	<4000	<60000	<100	<100
	8/29/2006	49.95	18.16	NP	31.79	--	65000	7200	4500	3200	11000	--	<100	<100	100	<4000	<60000	<100	<100
	11/29/2006	49.95	20.06	NP	29.89	--	46000	8500	4600	3300	10000	--	<120	<120	120	<5000	<75000	<120	<120
	2/20/2007	49.95	16.43	NP	33.52	--	78000	9700	12000	4100	16000	--	<100	<100	<100	<4000	<60000	<100	<100
	5/25/2007	49.95	16.80	NP	33.15	--	62000	7400	9500	4100	15000	--	<200	<200	<200	<8000	<120000	<200	<200
	8/9/2007	49.95	19.55	NP	30.40	--	58000	7400	5000	3800	12000	--	<100	<100	<100	<4000	<60000	<100	<100
	11/9/2007	49.95	21.53	NP	28.42	--	49000	6300	3300	2900	8300	--	<100	<100	<100	<4000	<60000	<100	<100
MW-3	1/5/1992	NSVD	33.69	NP	NSVD	4000	7400	790	23	210	40	--	--	--	--	--	--	--	--
	1/10/1992	NSVD	33.74	NP	NSVD	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	6/5/1992	NSVD	29.65	NP	NSVD	--	0	130	5.3	93	20	--	--	--	--	--	--	--	--
	7/24/1992	NSVD	30.14	NP	NSVD	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	7/27/1992	NSVD	30.14	NP	NSVD	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/15/1992	NSVD	31.07	NP	NSVD	<50	450	55	3.1	34	7.1	--	--	--	--	--	--	--	--
	12/15/1992	NSVD	31.93	NP	NSVD	710	12000	940	<50	310	120	--	--	--	--	--	--	--	--
	3/15/1993	NSVD	25.71	NP	NSVD	60	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--
	6/7/1993	NSVD	25.80	NP	NSVD	<50	150	3.6	<0.5	0.9	1.3	--	--	--	--	--	--	--	--
	9/23/1993	NSVD	29.18	NP	NSVD	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/24/1993	NSVD	NG	NG	NG	<50	160	8.4	<0.5	3.7	1.3	--	--	--	--	--	--	--	--
	12/27/1993	NSVD	29.25	NP	NSVD	--	9400	1100	48	530	120	--	--	--	--	--	--	--	--
	4/5/1994	NSVD	26.84	NP	NSVD	--	7000	860	19	330	52	--	--	--	--	--	--	--	--
	7/22/1994	NSVD	26.90	NP	NSVD	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--
	10/13/1994	NSVD	27.83	NP	NSVD	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--
	1/25/1995	51.40	21.65	NP	29.75	--	<50	<0.5	<0.5	<0.5	<1	--	--	--	--	--	--	--	--
	4/19/1995	51.40	19.33	NP	32.07	--	2400	170	8	130	27	--	--	--	--	--	--	--	--
	7/5/1995	51.40	20.27	NP	31.13	--	<50	<0.5	<0.5	<0.5	<1	--	--	--	--	--	--	--	--
	10/5/1995	51.40	23.73	NP	27.67	--	2300	210	3.1	10	5.1	--	--	--	--	--	--	--	--
	1/12/1996	51.40	24.84	NP	26.56	--	<50	<0.5	<0.5	<0.5	<1	--	--	--	--	--	--	--	--
	4/22/1996	51.40	18.60	NP	32.80	--	<50	<0.5	<1	<1	<1	--	--	--	--	--	--	--	--

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76 (FORMER BP) SERVICE STATION NO. 2611117
7210 BANCROFT 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)	DRO (ug/L)	GRO (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)
MW-3	7/2/1996	51.40	18.88	NP	32.52	--	<50	<0.5	<1	<1	<1	--	--	--	--	--	--	--	--
	11/8/1996	51.40	19.14	NP	32.26	--	<50	<0.5	<1	<1	<1	--	--	--	--	--	--	--	--
	1/3/1997	51.40	18.72	NP	32.68	--	<50	<0.5	<1	<1	<1	--	--	--	--	--	--	--	--
	4/28/1997	51.40	19.38	NP	32.02	--	<50	<0.5	<1	<1	<1	--	--	--	--	--	--	--	--
	7/1/1997	51.40	21.65	NP	29.75	--	<50	<0.5	<1	<1	<1	--	--	--	--	--	--	--	--
	10/2/1997	51.40	23.45	NP	27.95	--	<50	<0.5	<1	<1	<1	--	--	--	--	--	--	--	--
	1/9/1998	51.40	20.10	NP	31.30	--	<50	<0.5	<1	<1	<1	--	--	--	--	--	--	--	--
	5/6/1998	51.40	15.57	NP	35.83	--	<50	<0.5	<1	<1	<1	--	--	--	--	--	--	--	--
	7/21/1998	51.40	15.88	NP	35.52	--	51	<0.5	<1	<1	<1	--	--	--	--	--	--	--	--
	12/30/1998	51.40	20.30	NP	31.10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/2/1999	51.40	19.75	NP	31.65	--	<50	<1	<1	<1	<1	--	--	--	--	--	--	--	--
	5/10/1999	51.40	16.17	NP	35.23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/23/1999	51.40	22.05	NP	29.35	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/23/1999	51.40	22.55	NP	28.85	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/27/2000	51.40	16.40	NP	35.00	--	350	22	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--
	5/22/2000	51.40	9.49	NP	41.91	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8/31/2000	51.40	13.02	NP	38.38	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/11/2000	51.40	13.30	NP	38.10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/20/2001	51.40	16.49	NP	34.91	--	1000	66.4	0.597	6.96	<1.5	--	--	--	--	--	--	--	--
	6/19/2001	51.40	18.82	NP	32.58	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/20/2001	51.40	21.59	NP	29.81	--	230	<0.5	0.593	<0.5	<1.5	--	--	--	--	--	--	--	--
	12/27/2001	51.40	17.37	NP	34.03	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/28/2002	51.40	15.81	NP	35.59	--	<50	<0.5	<0.5	<0.5	<1	--	--	--	--	--	--	--	--
	6/28/2002	51.40	17.09	NP	34.31	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/12/2002	51.40	18.80	NP	32.60	--	52	3.3	8.6	1.7	12	--	--	--	--	--	--	--	--
	12/12/2002	51.40	20.57	NP	30.83	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/10/2003	51.40	16.68	NP	34.72	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--
	5/12/2003	51.40	14.72	NP	36.68	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8/27/2003	51.40	18.50	NP	32.90	--	<50	<0.5	<0.5	<0.5	0.5	--	<0.5	<0.5	<0.5	<20	<100	--	--
	11/10/2003	51.40	19.66	NP	31.74	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/3/2004	51.40	15.33	NP	36.07	--	<50	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<20	<100	<0.5	<0.5
	8/31/2004	51.40	18.13	NP	33.27	--	<50	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<20	<100	<0.5	<0.5
	11/23/2004	51.40	16.48	NP	34.92	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	1/18/2005	51.40	13.06	NP	38.34	--	<50	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<20	<100	<0.5	<0.5
	6/29/2005	51.40	13.00	NP	38.40	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/1/2005	51.40	16.00	NP	35.40	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/3/2005	51.40	18.91	NP	32.49	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/14/2006	51.40	12.90	NP	38.50	--	86	<0.5	<0.5	<0.5	0.55	--	<0.5	<0.5	<0.5	<20	<300	<0.5	<0.5
	5/30/2006	51.40	12.55	NP	38.85	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8/29/2006	51.40	16.68	NP	34.72	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/29/2006	51.40	19.10	NP	32.30	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/20/2007	51.40	15.29	NP	36.11	--	56	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<20	<300	<0.5	<0.5
	5/25/2007	51.40	15.94	NP	35.46	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8/9/2007	51.40	18.70	NP	32.70	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/9/2007	51.40	20.27	NP	31.13	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/14/2007	37.56	20.21	NP	17.35	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/11/2008	37.56	14.68	NP	22.88	--	<50	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<10	<100	<0.5	<0.5
	5/22/2008	37.56	16.64	NP	20.92	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8/25/2008	37.56	19.40	NP	18.16	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

TABLE 3
HISTORICAL GROUNDWATER GAUGING AND ANALYTICAL DATA
76 (FORMER BP) SERVICE STATION NO. 2611117
7210 BANCROFT 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)	DRO (ug/L)	GRO (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)
MW-3	12/17/2008	37.56	22.13	NP	15.43	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/25/2009	37.56	16.81	NP	20.75	--	71	<0.50	<0.50	<0.50	<0.50	<0.50	--	--	--	--	--	--	--
	5/21/2009	37.56	16.40	NP	21.16	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	8/14/2009	37.56	19.60	NP	17.96	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	2/10/2010	37.56	14.81	NP	22.75	--	<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
	8/20/2010	37.56	16.80	NP	20.76	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	2/7/2011	37.56	14.39	NP	23.17	--	<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
	8/15/2011	37.56	15.56	NP	22.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	7/24/1992	NSVD	30.02	NP	NSVD	--	42000	3200	3600	1400	4100	--	--	--	--	--	--	--	--
	7/27/1992	NSVD	30.02	NP	NSVD	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/15/1992	NSVD	31.14	NP	NSVD	1700	55000	7600	13000	2800	9500	--	--	--	--	--	--	--	--
	12/15/1992	NSVD	31.98	NP	NSVD	2200	36000	3700	4700	1200	4000	--	--	--	--	--	--	--	--
	3/15/1993	NSVD	25.34	NP	NSVD	1200	69000	7600	15000	2500	11000	--	--	--	--	--	--	--	--
	6/7/1993	NSVD	25.67	NP	NSVD	2500	73000	10000	19000	3400	14000	--	--	--	--	--	--	--	--
	9/23/1993	NSVD	29.37	NP	NSVD	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/24/1993	NSVD	NG	NG	NG	5700	68000	11000	2100	8600	990	--	--	--	--	--	--	--	--
	12/27/1993	NSVD	29.40	NP	NSVD	--	32000	2500	4400	1300	4400	--	--	--	--	--	--	--	--
	4/5/1994	NSVD	27.09	NP	NSVD	--	64000	6500	14000	1900	9600	--	--	--	--	--	--	--	--
	7/22/1994	NSVD	27.33	NP	NSVD	--	85000	10000	20000	3200	13000	--	--	--	--	--	--	--	--
	10/13/1994	NSVD	28.25	NP	NSVD	--	51000	7100	13000	2100	8900	--	--	--	--	--	--	--	--
	1/25/1995	50.88	21.85	NP	29.03	--	26000	3600	9600	1200	6400	--	--	--	--	--	--	--	--
	4/19/1995	50.88	19.44	NP	31.44	--	89000	12000	24000	3500	18000	--	--	--	--	--	--	--	--
	7/5/1995	50.88	20.52	NP	30.36	--	130000	13000	29000	3300	25000	--	--	--	--	--	--	--	--
	10/5/1995	50.88	24.23	NP	26.65	--	110000	10000	23000	3600	17000	--	--	--	--	--	--	--	--
	1/12/1996	50.88	25.34	NP	25.54	--	46000	3500	8300	1100	8000	--	--	--	--	--	--	--	--
	4/22/1996	50.88	19.13	NP	31.75	--	40000	5100	9600	980	11800	--	--	--	--	--	--	--	--
	7/2/1996	50.88	20.67	NP	30.21	--	74000	9800	21000	2100	16600	--	--	--	--	--	--	--	--
	11/8/1996	50.88	20.95	NP	29.93	--	100000	7900	16000	2500	13700	--	--	--	--	--	--	--	--
	1/3/1997	50.88	20.54	NP	30.34	--	99000	17000	30000	4300	22700	--	--	--	--	--	--	--	--
	4/28/1997	50.88	21.28	NP	29.60	--	130000	12000	28000	3800	21000	--	--	--	--	--	--	--	--
	7/1/1997	50.88	23.61	NP	27.27	--	110000	16000	25000	4900	24400	--	--	--	--	--	--	--	--
	10/2/1997	50.88	25.39	NP	25.49	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	10/3/1997	50.88	NG	NG	NG	--	66000	8200	8600	2700	13400	--	--	--	--	--	--	--	--
	1/9/1998	50.88	21.25	NP	29.63	--	100000	9700	3200	1500	4700	--	--	--	--	--	--	--	--
	5/6/1998	50.88	15.96	NP	34.92	--	430000	6900	31000	11000	56000	--	--	--	--	--	--	--	--
	7/21/1998	50.88	16.10	NP	34.78	--	250000	11000	26000	5500	26900	--	--	--	--	--	--	--	--
	12/30/1998	50.88	20.91	NP	29.97	--	370000	11000	22000	8500	40000	92000	--	--	--	--	--	--	--
	2/2/1999	50.88	20.13	NP	30.75	--	190000	4100	19000	4800	32000	--	--	--	--	--	--	--	--
	5/10/1999	50.88	16.63	NP	34.25	--	2700	23	7.1	8.1	25	--	--	--	--	--	--	--	--
	9/23/1999	50.88	22.48	NP	28.40	--	180000	11000	29000	7000	38000	--	--	--	--	--	--	--	--
	12/23/1999	50.88	22.94	NP	27.94	--	66000	6300	5200	2200	7800	--	--	--	--	--	--	--	--
	3/27/2000	50.88	16.84	NP	34.04	--	120000	8700	12000	3800	16000	--	--	--	--	--	--	--	--
	5/22/2000	50.88	17.85	NP	33.03	--	110000	7600	16000	4400	20000	--	--	--	--	--	--	--	--
	8/31/2000	50.88	21.71	NP	29.17	--	110000	8800	7600	3400	14000	--	--	--	--	--	--	--	--
	12/11/2000	50.88	22.05	NP	28.83	--	70000	4580	3480	2550	9220	--	--	--	--	--	--	--	--
	3/20/2001	50.88	17.68	NP	33.20	--	100000	7100	4530	2540	9370	--	--	--	--	--	--	--	--
	6/19/2001	50.88	19.40	NP	31.48	--	180000	7430	14600	5400	25300	--	--	--	--	--	--	--	--
	9/20/2001	50.88	22.01	0.03	28.89	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/27/2001	50.88	17.96	NP	32.92	--	120000	6880	9030	2840	14600	--	--	--	--	--	--	--	--
	2/28/2002	50.88	17.06	NP	33.82	--	80000	4920	5450	2220	12300	--	--	--	--	--	--	--	--
	6/28/2002	50.88	17.76	NP	33.12	--	48000	2780	2770	1530	6790	--	--	--	--	--	--	--	--
	9/12/2002	50.88	19.45	NP	31.43	--	46000	4500	6800	2600	10000	--	--	--	--	--	--	--	--

TABLE 3
HISTORICAL GROUNDWATER GAUGING AND ANALYTICAL DATA
76 (FORMER BP) SERVICE STATION NO. 2611117
7210 BANCROFT 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)	DRO (ug/L)	GRO (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)
MW-4	12/12/2002	50.88	21.29	NP	29.59	--	36000	5200	3400	2000	6500	--	--	--	--	--	--	--	--
	3/10/2003	50.88	17.16	NP	33.72	--	70000	7000	4800	3300	13000	--	--	--	--	--	--	--	--
	5/12/2003	50.88	14.51	NP	36.37	--	75000	7600	3700	3400	13000	--	--	--	--	--	--	--	--
	8/27/2003	50.88	19.32	NP	31.56	--	77000	7500	1300	2100	4000	--	<250	<250	250	<10000	<50000	--	--
	11/10/2003	50.88	20.36	NP	30.52	--	110000	7100	3100	2100	5800	--	<500	<500	<500	<20000	<100000	--	--
	2/3/2004	50.88	16.51	NP	34.37	--	160000	8400	9700	5000	23000	--	<500	<500	<500	<20000	<100000	<500	<500
	5/4/2004	50.88	16.47	NP	34.41	--	110000	8100	7500	4300	17000	--	<250	<250	<250	<10000	<50000	<250	<250
	8/31/2004	50.88	19.16	NP	31.72	--	91000	6600	8400	3700	14000	--	<250	<250	<250	<10000	<50000	<250	<250
	11/23/2004	50.88	18.02	NP	32.86	--	7400000	20000	150000	320000	1400000	--	<2500	<2500	<2500	<100000	<500000	<2500	<2500
	1/18/2005	50.88	14.21	NP	36.67	--	170000	5400	14000	6900	33000	--	<250	<250	<250	<10000	<50000	<250	<250
	6/29/2005	50.88	13.86	NP	37.02	--	640000	3500	25000	24000	110000	--	<250	<250	<250	<10000	<50000	<250	<250
	9/1/2005	50.88	16.89	NP	33.99	--	100000	3800	11000	4900	33000	--	<500	<500	<500	<20000	<100000	<500	<500
	11/3/2005	50.88	19.33	NP	31.55	--	490000	4700	11000	10000	49000	--	<500	<500	<500	<20000	<100000	<500	<500
	2/14/2006	50.88	13.55	NP	37.33	--	970000	60000	7000	36000	140000	--	<500	<500	1000	<20000	<300000	<500	<500
	5/30/2006	50.88	13.52	NP	37.36	--	140000	3000	6600	6200	29000	--	<500	<500	<500	<20000	<300000	<500	<500
	8/29/2006	50.88	17.52	NP	33.36	--	52000	4700	2500	3500	12000	--	<500	<500	<500	<20000	<300000	<500	<500
	11/29/2006	50.88	19.93	0.11	31.03	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/20/2007	50.88	16.14	NP	34.74	--	68000	8400	2600	4100	13000	--	<250	<250	<250	<10000	<150000	<250	<250
	5/25/2007	50.88	16.65	NP	34.23	--	37000	5100	1200	2800	6900	--	<200	<200	<200	<8000	<120000	<200	<200
	8/9/2007	50.88	19.29	NP	31.59	--	180000	5600	7700	5700	21000	--	<100	<100	<100	4100	<60000	<100	<100
	11/9/2007	50.88	21.27	NP	29.61	--	110000	3300	2400	3600	13000	--	<100	<100	<100	5700	<60000	<100	<100
	12/14/2007	38.35	21.10	NP	17.25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/11/2008	38.35	15.45	0.01	22.91	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	5/22/2008	38.35	17.44	NP	20.91	--	48000	4500	880	1400	5000	--	<100	<100	<100	6600	<60000	<100	<100
	8/25/2008	38.35	20.32	0.05	18.07	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/17/2008	38.35	22.20	NP	16.15	--	45000	3300	520	910	3000	--	<100	<100	<100	6100	<60000	<100	<100
	2/25/2009	38.35	17.60	NP	20.75	--	39000	4600	2100	1800	6300	1300	--	--	--	--	--	--	--
	5/21/2009	38.35	17.02	NP	21.33	--	51000	3900	1100	1900	6800	3700	--	--	--	--	--	--	--
	8/14/2009	38.35	20.09	NP	18.26	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	2/10/2010	38.35	16.09	NP	22.26	--	2500	4.7	1.5	1.3	4.1	3.4	<0.50	<0.50	<0.50	248	<250	<1.0	<1.0
	8/20/2010	38.35	17.29	NP	21.06	--	3530	39.8	0.89	1.3	15.8	7.0	<0.50	<0.50	<0.50	689	<250	<1.0	<1.0
	2/7/2011	38.35	15.59	NP	22.76	--	3600	7.1	0.76	1.2	5.1	3.7	<0.50	<0.50	<0.50	210	<250	<1.0	<1.0
	8/15/2011	38.35	16.06	NP	22.29	--	87600	3430	280	2880	8500	317	<12.5	<12.5	<12.5	3410	<6250	<25.0	<25.0
MW-6	7/24/1992	NSVD	30.63	NP	NSVD	--	--	1.6	--	--	--	--	--	--	--	--	--	--	--
	7/27/1992	NSVD	30.63	NP	NSVD	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/15/1992	NSVD	31.52	NP	NSVD	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--
	12/15/1992	NSVD	32.42	NP	NSVD	<50	58	1.3	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--
	3/15/1993	NSVD	26.29	NP	NSVD	<50	<50	<0.5	0.6	<0.5	0.7	--	--	--	--	--	--	--	--
	6/7/1993	NSVD	26.33	NP	NSVD	<50	<50	<0.5	<0.5	<0.5	1.5	--	--	--	--	--	--	--	--
	9/23/1993	NSVD	29.64	NP	NSVD	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/24/1993	NSVD	NG	NG	NG	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--
	12/27/1993	NSVD	29.75	NP	NSVD	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--
	4/5/1994	NSVD	27.26	NP	NSVD	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--
	7/22/1994	NSVD	27.34	NP	NSVD	--	350	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--
	10/13/1994	NSVD	NG	NG	NG	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	1/25/1995	51.05	22.16	NP	28.89	--	240	6	<0.5	<0.5	<1	--	--	--	--	--	--	--	--
	4/19/1995	51.05	NG	NG	NG	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	7/5/1995	51.05	20.80	NP	30.25	--	180	<0.5	<0.5	<0.5	<1	--	--	--	--	--	--	--	--
	10/5/1995	51.05	24.20	NP	26.85	--	860	<5	<5	<5	<10	--	--	--	--	--	--	--	--
	1/12/1996	51.05	25.30	NP	25.75	--	860	<5	<5	<5	<10	--	--	--	--	--	--	--	--

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76 (FORMER BP) SERVICE STATION NO. 2611117
7210 BANCROFT 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)	DRO (ug/L)	GRO (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)
MW-6	4/22/1996	51.05	19.13	NP	31.92	--	<50	<0.5	<1	<1	<1	--	--	--	--	--	--	--	--
	7/2/1996	51.05	20.66	NP	30.39	--	100	<0.5	<1	<1	<1	--	--	--	--	--	--	--	--
	11/8/1996	51.05	20.98	NP	30.07	--	1100	<5	<10	<10	<10	--	--	--	--	--	--	--	--
	1/3/1997	51.05	20.53	NP	30.52	--	<50	<0.5	<1	<1	<1	--	--	--	--	--	--	--	--
	4/28/1997	51.05	21.25	NP	29.80	--	1400	<0.5	<1	<1	<1	--	--	--	--	--	--	--	--
	7/1/1997	51.05	23.40	NP	27.65	--	6100	<0.5	<1	<1	<1	--	--	--	--	--	--	--	--
	10/2/1997	51.05	25.16	NP	25.89	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	10/3/1997	51.05	NG	NG	NG	--	330	<0.5	<1	<1	<1	--	--	--	--	--	--	--	--
	1/9/1998	51.05	21.13	NP	29.92	--	<50	<0.5	<1	<1	<1	--	--	--	--	--	--	--	--
	5/6/1998	51.05	16.11	NP	34.94	--	410	<0.5	<1	<1	<1	--	--	--	--	--	--	--	--
	7/21/1998	51.05	16.33	NP	34.72	--	4300	<5	<10	<10	<10	--	--	--	--	--	--	--	--
	12/30/1998	51.05	20.89	NP	30.16	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/2/1999	51.05	20.20	NP	30.85	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	5/10/1999	51.05	16.75	NP	34.30	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/23/1999	51.05	22.55	NP	28.50	--	<50	<1	<1	<1	<1	--	--	--	--	--	--	--	--
	12/23/1999	51.05	23.00	NP	28.05	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/27/2000	51.05	16.89	NP	34.16	--	1700	4.4	0.54	<0.5	1	--	--	--	--	--	--	--	--
	5/22/2000	51.05	18.02	NP	33.03	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8/31/2000	51.05	21.62	NP	29.43	--	1200	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--
	12/11/2000	51.05	21.81	NP	29.24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/20/2001	51.05	16.97	NP	34.08	--	3300	<0.5	<0.5	<0.5	<1.5	--	--	--	--	--	--	--	--
	6/19/2001	51.05	19.30	NP	31.75	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/20/2001	51.05	22.00	NP	29.05	--	2200	2.04	8.1	3.62	13.7	--	--	--	--	--	--	--	--
	12/27/2001	51.05	17.85	NP	33.20	--	830	0.59	<0.5	<0.5	<1	--	--	--	--	--	--	--	--
	2/28/2002	51.05	16.31	NP	34.74	--	1100	<0.5	<0.5	<0.5	<1	--	--	--	--	--	--	--	--
	6/28/2002	51.05	17.57	NP	33.48	--	<50	<0.5	<0.5	<0.5	<1	--	--	--	--	--	--	--	--
	9/12/2002	51.05	19.27	NP	31.78	--	190	1.9	4.6	1	7.3	--	--	--	--	--	--	--	--
	12/12/2002	51.05	20.94	NP	30.11	--	270	<2.5	<2.5	<2.5	<2.5	--	--	--	--	--	--	--	--
	3/10/2003	51.05	17.11	NP	33.94	--	110	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--
	5/12/2003	51.05	15.18	NP	35.87	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--
	8/27/2003	51.05	18.90	NP	32.15	--	<50	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<20	<100	--	--
	11/10/2003	51.05	20.13	NP	30.92	--	<50	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<20	<100	--	--
	2/3/2004	51.05	15.83	NP	35.22	--	<50	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<20	<100	<0.5	<0.5
	5/4/2004	51.05	15.62	NP	35.43	--	<50	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<20	<100	<0.5	<0.5
	8/31/2004	51.05	18.56	NP	32.49	--	<50	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<20	<100	<0.5	<0.5
	11/23/2004	51.05	16.95	NP	34.10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	1/18/2005	51.05	13.61	NP	37.44	--	<50	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<20	<100	<0.5	<0.5
	6/29/2005	51.05	13.55	NP	37.50	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/1/2005	51.05	16.52	NP	34.53	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/3/2005	51.05	19.28	NP	31.77	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/14/2006	51.05	NG	NG	NG	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	5/30/2006	51.05	NG	NG	NG	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8/29/2006	51.05	17.15	NP	33.90	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/29/2006	51.05	19.50	NP	31.55	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/20/2007	51.05	15.81	NP	35.24	--	<50	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<20	<300	<0.5	<0.5
	5/25/2007	51.05	16.38	NP	34.67	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8/9/2007	51.05	19.15	NP	31.90	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/9/2007	51.05	20.70	NP	30.35	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/14/2007	51.05	NG	NG	NG	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

TABLE 3
HISTORICAL GROUNDWATER GAUGING AND ANALYTICAL DATA
76 (FORMER BP) SERVICE STATION NO. 2611117
7210 BANCROFT 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)	DRO (ug/L)	GRO (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)
MW-6	2/11/2008	51.05	15.08	NP	35.97	--	<50	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<10	<100	<0.5	<0.5
	5/22/2008	51.05	17.07	NP	33.98	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8/25/2008	51.05	19.82	NP	31.23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/17/2008	51.05	21.58	NP	29.47	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/25/2009	51.05	17.34	NP	33.71	--	120	<0.50	<0.50	<0.50	<0.50	13	--	--	--	--	--	--	--
	5/21/2009	51.05	16.85	NP	34.20	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	8/14/2009	51.05	20.03	NP	31.02	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	2/10/2010	51.05	15.31	NP	35.74	--	<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
	8/20/2010	51.05	16.60	NP	34.45	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	2/7/2011	51.05	14.86	NP	36.19	--	<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
	8/15/2011	51.05	16.07	NP	34.98	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	1/25/1995	51.40	21.67	NP	29.73	--	<50	<0.5	<0.5	<0.5	<1	--	--	--	--	--	--	--	--
	4/19/1995	51.40	25.27	NP	26.13	--	<50	<0.5	<0.5	<0.5	<1	--	--	--	--	--	--	--	--
	7/5/1995	51.40	24.63	NP	26.77	--	<50	<0.5	<0.5	<0.5	<1	--	--	--	--	--	--	--	--
	10/5/1995	51.40	28.21	NP	23.19	--	83	<0.5	<0.5	<0.5	<1	--	--	--	--	--	--	--	--
	1/12/1996	51.40	29.29	NP	22.11	--	63	<0.5	<0.5	<0.5	<1	--	--	--	--	--	--	--	--
	4/22/1996	51.40	23.11	NP	28.29	--	<50	<0.5	<1	<1	<1	--	--	--	--	--	--	--	--
	7/2/1996	51.40	23.56	NP	27.84	--	<50	<0.5	<1	<1	<1	--	--	--	--	--	--	--	--
	11/8/1996	51.40	20.06	NP	31.34	--	<50	<0.5	<1	<1	<1	--	--	--	--	--	--	--	--
	1/3/1997	51.40	23.42	NP	27.98	--	<50	<0.5	<1	<1	<1	--	--	--	--	--	--	--	--
	4/28/1997	51.40	24.12	NP	27.28	--	<50	<0.5	<1	<1	<1	--	--	--	--	--	--	--	--
	7/1/1997	51.40	26.40	NP	25.00	--	<50	<0.5	<1	<1	<1	--	--	--	--	--	--	--	--
	10/2/1997	51.40	28.14	NP	23.26	--	<50	<0.5	<1	<1	<1	--	--	--	--	--	--	--	--
	1/9/1998	51.40	24.02	NP	27.38	--	<50	<0.5	<1	<1	<1	--	--	--	--	--	--	--	--
	5/6/1998	51.40	21.00	NP	30.40	--	1900	<0.5	<1	<1	<1	--	--	--	--	--	--	--	--
	7/21/1998	51.40	21.17	NP	30.23	--	50	<0.5	<1	<1	<1	--	--	--	--	--	--	--	--
	12/30/1998	51.40	22.13	NP	29.27	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/2/1999	51.40	22.08	NP	29.32	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	5/10/1999	51.40	18.58	NP	32.82	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/23/1999	51.40	24.29	NP	27.11	--	70	<1	<1	<1	<1	--	--	--	--	--	--	--	--
	12/23/1999	51.40	24.53	NP	26.87	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/27/2000	51.40	18.58	NP	32.82	--	910	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--
	5/22/2000	51.40	19.49	NP	31.91	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8/31/2000	51.40	22.53	NP	28.87	--	440	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--
	12/11/2000	51.40	22.75	NP	28.65	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/20/2001	51.40	18.79	NP	32.61	--	1100	<0.5	<0.5	<0.5	<1.5	--	--	--	--	--	--	--	--
	6/19/2001	51.40	19.82	NP	31.58	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/20/2001	51.40	21.35	NP	30.05	--	1300	1.21	<0.5	<0.5	<1.5	--	--	--	--	--	--	--	--
	12/27/2001	51.40	20.36	NP	31.04	--	510	<0.5	<0.5	<0.5	<1	--	--	--	--	--	--	--	--
	2/28/2002	51.40	21.86	NP	29.54	--	250	<0.5	<0.5	<0.5	<1	--	--	--	--	--	--	--	--
	6/28/2002	51.40	22.64	NP	28.76	--	<50	<0.5	<0.5	<0.5	<1	--	--	--	--	--	--	--	--
	9/12/2002	51.40	23.51	NP	27.89	--	<50	<0.5	<0.5	<0.5	1	--	--	--	--	--	--	--	--
	12/12/2002	51.40	23.75	NP	27.65	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--
	3/10/2003	51.40	21.25	NP	30.15	--	61	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--
	5/12/2003	51.40	21.44	NP	29.96	--	<100	<1	<1	<1	<1	--	--	--	--	--	--	--	--
	8/27/2003	51.40	23.30	NP	28.10	--	120	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<20	<100	--	--
	11/10/2003	51.40	20.24	NP	31.16	--	230	<1	<1	<1	<1	--	<1	<1	<1	<40	<200	--	--
	2/3/2004	51.40	20.63	NP	30.77	--	<250	<2.5	<2.5	<2.5	<2.5	--	<2.5	<2.5	<2.5	<100	<500	<2.5	<2.5
	5/4/2004	51.40	21.89	NP	29.51	--	<250	<2.5	<2.5	<2.5	<2.5	--	<2.5	<2.5	<2.5	<100	<500	<2.5	<2.5

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HISTORICAL GROUNDWATER GAUGING AND ANALYTICAL DATA
76 (FORMER BP) SERVICE STATION NO. 2611117
7210 BANCROFT 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)	DRO (ug/L)	GRO (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)
MW-7	8/31/2004	51.40	23.16	NP	28.24	--	<500	<5	<5	<5	<5	--	<5	<5	<5	<200	<1000	<5	<5
	11/23/2004	51.40	21.65	NP	29.75	--	590	<2.5	5	11	51	--	<2.5	<2.5	<2.5	<100	<500	<2.5	<2.5
	1/18/2005	51.40	16.28	NP	35.12	--	<250	<2.5	<2.5	<2.5	2.5	--	<2.5	<2.5	<2.5	<100	<500	<2.5	<2.5
	6/29/2005	51.40	14.50	NP	36.90	--	2200	43	97	92	390	--	<2.5	<2.5	<2.5	<100	<500	<2.5	<2.5
	9/1/2005	51.40	20.41	NP	30.99	--	<500	<5	<5	<5	<5	--	<5	<5	<5	<200	<1000	<5	<5
	11/3/2005	51.40	21.00	NP	30.40	--	130	<1	<1	<1	1	--	<1	<1	<1	<40	<200	<1	<1
	2/14/2006	51.40	16.31	NP	35.09	--	100	<0.5	<0.5	<0.5	0.87	--	<0.5	<0.5	<0.5	<20	<300	<0.5	<0.5
	5/30/2006	51.40	17.58	NP	33.82	--	<50	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<20	<300	<0.5	<0.5
	8/29/2006	51.40	18.64	NP	32.76	--	100	<2.5	<2.5	<2.5	<2.5	--	<2.5	<2.5	<2.5	<100	<1500	<2.5	<2.5
	11/29/2006	51.40	20.35	NP	31.05	--	84	<2.5	<2.5	<2.5	<2.5	--	<2.5	<2.5	<2.5	<100	<1500	<2.5	<2.5
	2/20/2007	51.40	17.09	NP	34.31	--	160	<2.5	<2.5	<2.5	<2.5	--	<2.5	<2.5	<2.5	<100	<1500	<2.5	<2.5
	5/25/2007	51.40	17.20	NP	34.20	--	70	<1	<1	<1	<1	--	<1	<1	<1	<40	<600	<1	<1
	8/9/2007	51.40	19.95	NP	31.45	--	<50	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<20	<300	<0.5	<0.5
	11/9/2007	51.40	23.28	NP	28.12	--	61	<0.5	<0.5	<0.5	1.3	--	<0.5	<0.5	<0.5	<20	<300	<0.5	<0.5
	12/14/2007	38.99	23.07	NP	15.92	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/11/2008	38.99	17.21	NP	21.78	--	<50	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<10	<100	<0.5	<0.5
	5/22/2008	38.99	17.55	NP	21.44	--	200	<1	<1	<1	<1	--	<1	<1	<1	<20	<600	<1	<1
	8/25/2008	38.99	20.55	NP	18.44	--	<50	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<10	<300	<0.5	<0.5
	12/17/2008	38.99	21.86	NP	17.13	--	<50	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<10	<300	<0.5	<0.5
	8/14/2009	38.99	20.31	NP	18.68	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	8/20/2010	38.99	16.82	NP	22.17	--	<50.0	<0.50	<0.50	<0.50	<1.5	17.2	<0.50	<0.50	<0.50	9.8	<250	<1.0	<1.0
	8/15/2011	38.99	16.28	NP	22.71	--	<50.0	<0.50	<0.50	<0.50	<1.5	14.8	<0.50	<0.50	<0.50	13.1	<250	<1.0	<1.0
MW-8	1/25/1995	50.88	31.59	NP	19.29	--	54	<0.5	<0.5	<0.5	<1	--	--	--	--	--	--	--	--
	4/19/1995	50.88	19.18	NP	31.70	--	<50	<0.5	<0.5	<0.5	<1	--	--	--	--	--	--	--	--
	7/5/1995	50.88	19.03	NP	31.85	--	<50	<0.5	<0.5	<0.5	<1	--	--	--	--	--	--	--	--
	10/5/1995	50.88	24.40	NP	26.48	--	<50	<0.5	<0.5	<0.5	<1	--	--	--	--	--	--	--	--
	1/12/1996	50.88	25.51	NP	25.37	--	<50	<0.5	<0.5	<0.5	<1	--	--	--	--	--	--	--	--
	4/22/1996	50.88	18.00	NP	32.88	--	<50	<0.5	<1	<1	<1	--	--	--	--	--	--	--	--
	7/2/1996	50.88	19.83	NP	31.05	--	<50	<0.5	<1	<1	<1	--	--	--	--	--	--	--	--
	11/8/1996	50.88	20.09	NP	30.79	--	<50	<0.5	<1	<1	<1	--	--	--	--	--	--	--	--
	1/3/1997	50.88	19.72	NP	31.16	--	<50	<0.5	<1	<1	<1	--	--	--	--	--	--	--	--
	4/28/1997	50.88	20.44	NP	30.44	--	<50	<0.5	<1	<1	<1	--	--	--	--	--	--	--	--
	7/1/1997	50.88	22.72	NP	28.16	--	<50	<0.5	<1	<1	<1	--	--	--	--	--	--	--	--
	10/2/1997	50.88	24.51	NP	26.37	--	<50	<0.5	<1	<1	<1	--	--	--	--	--	--	--	--
	1/9/1998	50.88	21.17	NP	29.71	--	<50	<0.5	<1	<1	<1	--	--	--	--	--	--	--	--
	5/6/1998	50.88	18.34	NP	32.54	--	<50	<0.5	<1	<1	<1	--	--	--	--	--	--	--	--
	7/21/1998	50.88	18.55	NP	32.33	--	90	<0.5	<1	<1	<1	--	--	--	--	--	--	--	--
	12/30/1998	50.88	20.40	NP	30.48	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/2/1999	50.88	19.28	NP	31.60	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	5/10/1999	50.88	15.62	NP	35.26	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/23/1999	50.88	21.74	NP	29.14	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/23/1999	50.88	22.83	NP	28.05	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/27/2000	50.88	16.25	NP	34.63	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--
	5/22/2000	50.88	17.06	NP	33.82	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8/31/2000	50.88	21.72	NP	29.16	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/11/2000	50.88	22.03	NP	28.85	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/20/2001	50.88	16.23	NP	34.65	--	<50	<0.5	<0.5	<0.5	<1.5	--	--	--	--	--	--	--	--
	6/19/2001	50.88	19.35	NP	31.53	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/20/2001	50.88	21.95	NP	28.93	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/27/2001	50.88	16.98	NP	33.90	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/28/2002	50.88	15.38	NP	35.50	--	<50	<0.5	<0.5	<0.5	<1	--	--	--	--	--	--	--	--

TABLE 3
HISTORICAL GROUNDWATER GAUGING AND ANALYTICAL DATA
76 (FORMER BP) SERVICE STATION NO. 2611117
7210 BANCROFT 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)	DRO (ug/L)	GRO (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)
MW-8	6/28/2002	50.88	16.97	NP	33.91	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/12/2002	50.88	19.47	NP	31.41	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/12/2002	50.88	20.84	NP	30.04	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/10/2003	50.88	16.56	NP	34.32	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--
	5/12/2003	50.88	13.63	NP	37.25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8/27/2003	50.88	18.90	NP	31.98	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/10/2003	50.88	19.68	NP	31.20	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/3/2004	50.88	14.76	NP	36.12	--	<50	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<20	<100	<0.5	<0.5
	5/4/2004	50.88	14.69	NP	36.19	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8/31/2004	50.88	18.08	NP	32.80	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/23/2004	50.88	15.77	NP	35.11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	1/18/2005	50.88	12.04	NP	38.84	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--
	6/29/2005	50.88	NG	NG	NG	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/1/2005	50.88	16.12	NP	34.76	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/3/2005	50.88	19.42	NP	31.46	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/14/2006	50.88	12.43	NP	38.45	--	<50	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<20	<300	<0.5	<0.5
	5/30/2006	50.88	12.40	NP	38.48	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8/29/2006	50.88	17.16	NP	33.72	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/29/2006	50.88	19.35	NP	31.53	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/20/2007	50.88	14.57	NP	36.31	--	<50	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<20	<300	<0.5	<0.5
	5/25/2007	50.88	16.11	NP	34.77	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8/9/2007	50.88	19.25	NP	31.63	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/9/2007	50.88	20.92	NP	29.96	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/14/2007	38.44	21.26	NP	17.18	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/12/2008	38.44	14.00	NP	24.44	--	<50	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<10	<100	<0.5	<0.5
	5/22/2008	38.44	16.86	NP	21.58	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8/25/2008	38.44	19.92	NP	18.52	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/17/2008	38.44	21.45	NP	16.99	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/25/2009	38.44	16.19	NP	22.25	--	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	--	--	--	--	--	--
	5/21/2009	38.44	16.10	NP	22.34	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	8/14/2009	38.44	20.17	NP	18.27	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	2/10/2010	38.44	15.33	NP	23.11	--	<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
	8/20/2010	38.44	16.29	NP	22.15	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	2/7/2011	38.44	14.35	NP	24.09	--	<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
	8/15/2011	38.44	15.83	NP	22.61	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	1/25/1995	51.05	22.32	NP	28.73	--	<50	<0.5	<0.5	<0.5	<1	--	--	--	--	--	--	--	--
	4/19/1995	51.05	19.86	NP	31.19	--	<50	<0.5	<0.5	<0.5	<1	--	--	--	--	--	--	--	--
	7/5/1995	51.05	20.78	NP	30.27	--	<50	<0.5	<0.5	<0.5	<1	--	--	--	--	--	--	--	--
	10/5/1995	51.05	24.33	NP	26.72	--	<50	<0.5	<0.5	<0.5	<1	--	--	--	--	--	--	--	--
	1/12/1996	51.05	25.44	NP	25.61	--	<50	<0.5	<0.5	<0.5	<1	--	--	--	--	--	--	--	--
	4/22/1996	51.05	18.01	NP	33.04	--	<50	<0.5	<1	<1	<1	--	--	--	--	--	--	--	--
	7/2/1996	51.05	19.70	NP	31.35	--	<50	<0.5	<1	<1	<1	--	--	--	--	--	--	--	--
	11/8/1996	51.05	19.96	NP	31.09	--	<50	<0.5	<1	<1	<1	--	--	--	--	--	--	--	--
	1/3/1997	51.05	19.52	NP	31.53	--	<250	<2.5	<5	<5	<5	--	--	--	--	--	--	--	--
	4/28/1997	51.05	20.22	NP	30.83	--	<50	<0.5	<1	<1	<1	--	--	--	--	--	--	--	--
	7/1/1997	51.05	22.59	NP	28.46	--	<50	<0.5	<1	<1	<1	--	--	--	--	--	--	--	--
	10/2/1997	51.05	24.33	NP	26.72	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	10/3/1997	51.05	NG	NG	NG	--	<50	<0.5	<1	<1	<1	--	--	--	--	--	--	--	--
	1/9/1998	51.05	21.11	NP	29.94	--	<50	<0.5	<1	<1	<1	--	--	--	--	--	--	--	--
	5/6/1998	51.05	18.26	NP	32.79	--	<50	<0.5	<1	<1	<1	--	--	--	--	--	--	--	--

TABLE 3
HISTORICAL GROUNDWATER GAUGING AND ANALYTICAL DATA
76 (FORMER BP) SERVICE STATION NO. 2611117
7210 BANCROFT 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)	DRO (ug/L)	GRO (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)
MW-9	7/21/1998	51.05	18.46	NP	32.59	--	70	<0.5	<1	<1	<1	--	--	--	--	--	--	--	--
	12/30/1998	51.05	NG	NG	NG	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/2/1999	51.05	NG	NG	NG	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	5/10/1999	51.05	NG	NG	NG	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/23/1999	51.05	NG	NG	NG	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/23/1999	51.05	NG	NG	NG	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/27/2000	51.05	NG	NG	NG	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	5/22/2000	51.05	NG	NG	NG	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8/31/2000	51.05	NG	NG	NG	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/11/2000	51.05	NG	NG	NG	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/20/2001	51.05	NG	NG	NG	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	6/19/2001	51.05	NG	NG	NG	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/20/2001	51.05	22.20	NP	28.85	--	6300	2.87	<0.5	<0.5	<1.5	--	--	--	--	--	--	--	--
	12/27/2001	51.05	18.92	NP	32.13	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/28/2002	51.05	17.22	NP	33.83	--	19000	1560	61.3	84	111	--	--	--	--	--	--	--	--
	6/28/2002	51.05	18.20	NP	32.85	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/12/2002	51.05	19.92	NP	31.13	--	5100	570	180	<25	220	--	--	--	--	--	--	--	--
	12/12/2002	51.05	21.78	NP	29.27	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/10/2003	51.05	18.25	NP	32.80	--	26000	2500	<100	<100	<100	--	--	--	--	--	--	--	--
	5/12/2003	51.05	16.29	NP	34.76	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8/27/2003	51.05	19.69	NP	31.36	--	11000	830	<50	<50	<50	--	<50	<50	<50	<2000	<10000	--	--
	11/10/2003	51.05	19.97	NP	31.08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/3/2004	51.05	17.23	NP	33.82	--	6200	180	<50	<50	<50	--	<50	<50	<50	<2000	<10000	<50	<50
	5/4/2004	51.05	17.17	NP	33.88	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8/31/2004	51.05	19.71	NP	31.34	--	<2500	210	<25	<25	<25	--	<25	<25	<25	<1000	<5000	<25	<25
	11/23/2004	51.05	18.58	NP	32.47	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	1/18/2005	51.05	14.98	NP	36.07	--	490	32	<2.5	<2.5	8.9	--	<2.5	<2.5	<2.5	150	<500	<2.5	<2.5
	6/29/2005	51.05	14.74	NP	36.31	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/1/2005	51.05	17.42	NP	33.63	--	3500	1300	<25	<25	28	--	<25	<25	<25	2700	<5000	<25	<25
	11/3/2005	51.05	19.90	NP	31.15	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/14/2006	51.05	12.95	NP	38.10	--	2700	<25	<25	<25	<25	--	<25	<25	<25	<1000	<15000	<25	<25
	5/30/2006	51.05	13.76	NP	37.29	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8/29/2006	51.05	17.86	NP	33.19	--	1200	580	<25	<25	<25	--	<25	<25	<25	2100	<15000	<25	<25
	11/29/2006	51.05	20.25	NP	30.80	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/20/2007	51.05	16.91	NP	34.14	--	780	66	1.5	2	1.4	--	<1	<1	<1	380	<600	<1	<1
	5/25/2007	51.05	17.28	NP	33.77	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8/9/2007	51.05	19.71	NP	31.34	--	650	150	<0.5	<0.5	2	--	<0.5	<0.5	<0.5	790	<300	<0.5	<0.5
	11/9/2007	51.05	21.62	NP	29.43	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/14/2007	38.63	21.66	NP	16.97	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/12/2008	38.63	16.30	NP	22.33	--	890	27	2.5	28	5.4	--	<0.5	<0.5	<0.5	37	<100	<0.5	<0.5
	5/22/2008	38.63	18.10	NP	20.53	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8/25/2008	38.63	20.93	NP	17.70	--	180	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	75	<300	<0.5	<0.5
	12/17/2008	38.63	22.86	NP	15.77	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/25/2009	38.63	18.78	NP	19.85	--	600	11	0.86	1.1	2.2	<0.50	--	--	--	--	--	--	--
	5/21/2009	38.63	17.95	NP	20.68	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	8/14/2009	38.63	20.81	NP	17.82	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	2/10/2010	38.63	16.71	NP	21.92	--	<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
	8/20/2010	38.63	17.22	NP	21.41	--	137	26.5	<0.50	<0.50	<1.5	0.91	<0.50	<0.50	<0.50	92.5	<250	<1.0	<1.0
	2/7/2011	38.63	16.18	NP	22.45	--	78.5	1.6	<0.50	<0.50	<1.5	0.64	<0.50	<0.50	<0.50	27.6	<250	<1.0	<1.0

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76 (FORMER BP) SERVICE STATION NO. 2611117
7210 BANCROFT 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)	DRO (ug/L)	GRO (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)
MW-9	8/15/2011	38.63	VO	VO	VO	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-10	1/9/1998	51.07	20.97	NP	30.10	--	<50	<0.5	<1	<1	<1	--	--	--	--	--	--	--	--
	5/6/1998	51.07	18.07	NP	33.00	--	800	<0.5	<1	<1	<1	--	--	--	--	--	--	--	--
	7/21/1998	51.07	18.28	NP	32.79	--	80	<0.5	<1	<1	<1	--	--	--	--	--	--	--	--
	12/30/1998	51.07	22.22	NP	28.85	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/2/1999	51.07	21.83	NP	29.24	--	940	<10	<10	<10	<10	--	--	--	--	--	--	--	--
	5/10/1999	51.07	17.99	NP	33.08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/23/1999	51.07	22.61	NP	28.46	--	<50	<1	<1	<1	1.4	--	--	--	--	--	--	--	--
	12/23/1999	51.07	23.75	NP	27.32	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/27/2000	51.07	18.83	NP	32.24	--	1900	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--
	5/22/2000	51.07	19.47	NP	31.60	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8/31/2000	51.07	22.64	NP	28.43	--	1700	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--
	12/11/2000	51.07	22.84	NP	28.23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/20/2001	51.07	19.57	NP	31.50	--	16000	<0.5	<0.5	<0.5	<1.5	--	--	--	--	--	--	--	--
	6/19/2001	51.07	20.63	NP	30.44	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/20/2001	51.07	23.07	NP	28.00	--	5800	<0.5	<0.5	<0.5	<1.5	--	--	--	--	--	--	--	--
	12/27/2001	51.07	20.92	NP	30.15	--	6600	17.3	14.5	<12.5	<25	--	--	--	--	--	--	--	--
	2/28/2002	51.07	18.52	NP	32.55	--	3600	10.8	<0.5	<0.5	<1	--	--	--	--	--	--	--	--
	6/28/2002	51.07	18.41	NP	32.66	--	<50	<0.5	<0.5	<0.5	<1	--	--	--	--	--	--	--	--
	9/12/2002	51.07	20.57	NP	30.50	--	660	<5	<5	<5	<5	--	--	--	--	--	--	--	--
	12/12/2002	51.07	22.80	NP	28.27	--	1400	<5	<5	<5	<5	--	--	--	--	--	--	--	--
	3/10/2003	51.07	19.26	NP	31.81	--	1700	<5	<5	5.3	15	--	--	--	--	--	--	--	--
	5/12/2003	51.07	17.90	NP	33.17	--	1500	<12	<12	<12	<12	--	--	--	--	--	--	--	--
	8/27/2003	51.07	20.82	NP	30.25	--	4100	<25	<25	<25	<25	--	<25	<25	<25	<1000	<5000	--	--
	11/10/2003	51.07	21.92	NP	29.15	--	<5000	<50	<50	<50	<50	--	<50	<50	<50	<2000	<10000	--	--
	2/3/2004	51.07	18.52	NP	32.55	--	5100	<50	<50	<50	<50	--	<50	<50	<50	<2000	<10000	<50	<50
	5/4/2004	51.07	17.63	NP	33.44	--	<2500	<25	<25	<25	<25	--	<25	<25	<25	<1000	<5000	<25	<25
	8/31/2004	51.07	20.67	NP	30.40	--	<5000	<50	<50	<50	<50	--	<50	<50	<50	<2000	<10000	<50	<50
	11/23/2004	51.07	19.79	NP	31.28	--	2600	<25	<25	<25	<25	--	<25	<25	<25	<1000	<5000	<25	<25
	1/18/2005	51.07	16.13	NP	34.94	--	560	<5	<5	<5	<5	--	<5	<5	<5	<200	<1000	<5	<5
	6/29/2005	51.07	15.56	NP	35.51	--	110	1.9	4.6	4.2	17	--	<0.5	<0.5	<0.5	<20	<100	<0.5	<0.5
	9/1/2005	51.07	18.10	NP	32.97	--	<250	<2.5	<2.5	<2.5	<2.5	--	<2.5	<2.5	<2.5	<100	<500	<2.5	<2.5
	11/3/2005	51.07	20.90	NP	30.17	--	800	<5	<5	<5	7	--	<5	<5	<5	<200	<1000	<5	<5
	2/14/2006	51.07	15.58	NP	35.49	--	600	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	1.2	34	<300	<0.5	<0.5
	5/30/2006	51.07	14.70	NP	36.37	--	95	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<20	<300	<0.5	<0.5
	8/29/2006	51.07	18.69	NP	32.38	--	250	<5	<5	<5	<5	--	<5	<5	<5	<200	<3000	<5	<5
	11/29/2006	51.07	21.35	NP	29.72	--	650	<5	<5	<5	<5	--	<5	<5	5.8	<200	<3000	<5	<5
	2/20/2007	51.07	18.65	NP	32.42	--	720	<5	<5	<5	<5	--	<5	<5	<5	<200	<3000	<5	<5
	5/25/2007	51.07	18.15	NP	32.92	--	130	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	0.69	<20	<300	<0.5	<0.5
	8/9/2007	51.07	20.83	NP	30.24	--	970	<10	<10	<10	<10	--	<10	<10	<10	<400	<6000	<10	<10
	11/9/2007	51.07	22.53	NP	28.54	--	1100	<10	<10	<10	13	--	<10	<10	<10	<400	<6000	<10	<10
	12/14/2007	40.45	22.62	NP	17.83	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/11/2008	40.45	17.86	NP	22.59	--	<50	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	2.6	<10	<100	<0.5	<0.5
	5/22/2008	40.45	19.05	NP	21.40	--	81	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<10	<300	<0.5	<0.5
	8/25/2008	40.45	21.88	NP	18.57	--	<50	<0.5	1	<0.5	0.98	--	<0.5	<0.5	2.2	<10	<300	<0.5	<0.5
	12/17/2008	40.45	23.32	NP	17.13	--	<50	<20	<20	<20	<20	--	<20	<20	<20	<400	<12000	<20	<20
	2/25/2009	40.45	20.07	NP	20.38	--	84	<5.0	<5.0	<5.0	<5.0	290	--	--	--	--	--	--	--
	5/21/2009	40.45	18.80	NP	21.65	--	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	--	--	--	--	--	--
	8/14/2009	40.45	21.76	NP	18.69	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	2/10/2010	40.45	17.80	NP	22.65	--	<50.0	<0.50	<0.50	<0.50	<1.5	21.9	<0.50	<0.50	<0.50	<5.0	<250	<1.0	<1.0
	8/20/2010	40.45	18.64	NP	21.81	--	<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
	2/7/2011	40.45	17.02	NP	23.43	--	<50.0	<0.50	<0.50	<0.50	<1.5	0.53	<0.50	<0.50	<0.50	<5.0	<250	<1.0	<1.0
	8/15/2011	40.45	17.76	NP	22.69	--	<50.0	<0.50	<0.50	<0.50	<1.5	13.8	<0.50	<0.50	<0.50	13.1	<250	<1.0	<1.0

TABLE 3
HISTORICAL GROUNDWATER GAUGING AND ANALYTICAL DATA
76 (FORMER BP) SERVICE STATION NO. 2611117
7210 BANCROFT 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)	DRO (ug/L)	GRO (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)
MW-11	12/14/2007	37.64	20.16	NP	17.48	--	8000	<10	72	230	760	--	<10	<10	<10	<400	<6000	<10	<10
	2/12/2008	37.64	14.35	NP	23.29	--	5500	46	13	220	160	--	<2.5	<2.5	<2.5	<50	<500	<2.5	<2.5
	5/22/2008	37.64	16.63	NP	21.01	--	5700	80	21	320	150	--	<5	<5	<5	<100	<3000	<5	<5
	8/25/2008	37.64	19.48	NP	18.16	--	5300	<5	20	120	320	--	<5	<5	<5	<100	<3000	<5	<5
	12/17/2008	37.64	21.26	NP	16.38	--	12000	2.4	2.6	30	54	--	<0.5	<0.5	<0.5	<10	<300	<0.5	<0.5
	2/25/2009	37.64	16.38	NP	21.26	--	6800	0.86	20	150	390	<0.50	--	--	--	--	--	--	--
	5/21/2009	37.64	16.16	NP	21.48	--	2500	1.5	4.4	36	82	1.5	--	--	--	--	--	--	--
	8/14/2009	37.64	19.27	NP	18.37	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	2/10/2010	37.64	13.35	NP	24.29	--	820	0.53	0.86	9.0	15.4	1.4	<0.50	<0.50	<0.50	6.1	<250	<1.0	<1.0
	8/20/2010	37.64	15.66	NP	21.98	--	1740	0.52	1.4	16.5	26.1	1.2	<0.50	<0.50	<0.50	8.2	<250	<1.0	<1.0
	2/7/2011	37.64	13.55	NP	24.09	--	1530	<0.50	1.3	14.3	24.1	1.1	<0.50	<0.50	<0.50	<5.0	<250	<1.0	<1.0
	8/15/2011	37.64	14.58	NP	23.06	--	1530	<0.50	0.80	9.2	8.0	<0.50	<0.50	<0.50	<0.50	<5.0	<250	<1.0	<1.0
QC-2	9/15/1992	NSVD	NG	NG	NG	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--
	12/15/1992	NSVD	NG	NG	NG	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--
	3/15/1993	NSVD	NG	NG	NG	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--
	6/7/1993	NSVD	NG	NG	NG	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--
	9/24/1993	NSVD	NG	NG	NG	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--
	12/27/1993	NSVD	NG	NG	NG	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--
	4/5/1994	NSVD	NG	NG	NG	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--
	7/22/1994	NSVD	NG	NG	NG	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--
	10/13/1994	NSVD	NG	NG	NG	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--
	1/25/1995	NSVD	NG	NG	NG	--	<50	<0.5	2	0.6	1	--	--	--	--	--	--	--	--
	4/19/1995	NSVD	NG	NG	NG	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--
	7/5/1995	NSVD	NG	NG	NG	--	<50	<0.5	<0.5	<0.5	<1	--	--	--	--	--	--	--	--
	10/5/1995	NSVD	NG	NG	NG	--	<50	<0.5	<0.5	<0.5	<1	--	--	--	--	--	--	--	--
	1/12/1996	NSVD	NG	NG	NG	--	<50	<0.5	<0.5	<0.5	<1	--	--	--	--	--	--	--	--
	4/22/1996	NSVD	NG	NG	NG	--	<50	<0.5	<1	<1	<1	--	--	--	--	--	--	--	--
	7/2/1996	NSVD	NG	NG	NG	--	<50	<0.5	<1	<1	<1	--	--	--	--	--	--	--	--

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
VO - Unable to Locate
NSVD - Not surveyed
-- - No information available

Analytical Notes:
-- - No information available
< - Not detected at or above indicated laboratory reporting limit
NS - Well not sampled.
ug/L - micrograms/liter
DRO- diesel range organics
GRO- gasoline range organics
MTBE- Methyl tertiary-butyl ether
TBA- Tertiary-butyl alcohol
DIPE- Di-isopropyl ether
ETBE- Ethyl tertiary-butyl ether
TAME- Tertiary-amyl methyl ether

TABLE 3a
ADDITIONAL HISTORICAL GROUNDWATER ANALYTICAL DATA
76 (FORMER BP) SERVICE STATION NO. 2611117
7210 BANCROFT AVE
OAKLAND, CALIFORNIA

Well I.D.	Date	GROUNDWATER ANALYTICAL DATA																		
		Biochemical Oxygen Demand (ug/L)	Chemical Oxygen Demand (ug/L)	Chloride (ug/L)	Chromium (ug/L)	Chromium, Hexavalent (ug/L)	Iron SW6010 T (ug/L)	Iron, Ferric (ug/L)	Iron, Ferrous A3500D (ug/L)	Methane (ug/L)	Nitrate as N (ug/L)	Nitrite as N (ug/L)	Nitrogen (ug/L)	Nitrogen, Ammonia (ug/L)	Nitrogen, NO2 plus NO3 (ug/L)	Phosphate, Ortho (ug/L)	Phosphorous (ug/L)	Sulfate (ug/L)	Sulfide (ug/L)	Total Organic Carbon (ug/L)
DPE-1	8/15/2011	4560	27900	25200	0.66	<0.2	11100	9490	1600	1500	108	13.1	<1000	<100	121	219	236	14300	1040	3640
DPE-4	8/15/2011	55000	113000	26400	4	<0.2	10800	3230	7600	16100	<50.0	39.6	1770	<100	62.1	502	732	<1000	1080	14000
DPE-5	8/15/2011	21200	53900	32100	28	<0.2	20500	14000	6500	13900	<50.0	28.8	1320	<100	<50.0	240	134	<1000	1600	9360
EX-1	8/15/2011	8680	29800	19100	2.9	<0.2	1420	<100	1400	5040	52.9	<10.0	1120	185	59.7	148	107	3830	1080	11600
EX-2	8/15/2011	579000	7420	17100	2.2	<0.2	932	932	<100	208	12100	<10.0	<1000	<100	12100	162	106	17600	760	2010

Analytical Notes:
-- - No information available
< - Not detected at or above indicated laboratory reporting limit
NS - Well not sampled.
ug/L - micrograms/liter

Appendix A

Site Details and Summary of Previous Environmental Investigations

SITE LOCATION AND BACKGROUND

The Site is an active 76-brand gasoline retail outlet located on the northern corner of Bancroft Avenue and 73rd Avenue at 7210 Bancroft Avenue in Oakland, Alameda County, California (**Figure 1**). The site consists of a service station building, three 12,000-gallon gasoline underground storage tanks (USTs), and one 10,000-gallon diesel UST with associated piping and dispensers. The site is covered with asphalt or concrete surfacing except for planters along the southeastern and southwestern property boundaries and at the north corner of the property.

Land use in the immediate vicinity of the site is mixed commercial and residential. BP acquired the facility from Mobil Oil Corporation in 1989. In January 1994, BP transferred the property to TOSCO Marketing Company (TOSCO) and has not operated the facility since that time.

SUMMARY OF PREVIOUS ENVIRONMENTAL INVESTIGATIONS

1984 UST Replacement: In 1984, the pre-existing USTs at the site were removed and three single-walled fiberglass gasoline underground storage tanks (USTs) (6,000-gallon, 10,000-gallon, and 12,000-gallon) and one 6,000-gallon diesel UST were installed in a cavity immediately to the northeast of the former USTs. A UST removal/installation report is not on file, and it is unknown if one was ever prepared. No documentation was reportedly found referencing the conditions of the removed USTs or reporting evidence of the hydrocarbon impacts in the soil and groundwater, if any, at the time of the UST removal.

1989 Phase II Environmental Audit: In December 1989, Hunter Environmental Services, Inc. (Hunter) performed a Phase II Environmental Audit on the adjacent Eastmont Town Center site located to the north and northwest of the former BP Site. Part of the Phase II study included the installation monitoring well MW-3 near the western boundary of the former BP Site. Soil samples collected from 10 and 20 feet below ground surface (bgs) from MW-3 were analyzed for total petroleum hydrocarbons (TPH), benzene, toluene, ethyl benzene, and total xylenes (BTEX), and oil and grease. No analytes were reported above their respective laboratory reporting limits (LRLs). A groundwater sample collected from MW-3 was reported to contain TPH and benzene at concentrations of 2,700 micrograms per liter (µg/L) and 530 µg/L, respectively (Hunter, 1989).

1991 Phase I Subsurface Investigation: In December 1991, Hydro Environmental Technologies, Inc. (Hydro) drilled two on-site soil borings (MW-1 and MW-2) to total depths of 40 feet bgs, and soil samples were collected at 10-foot intervals between 5 and 25 feet bgs. First groundwater was encountered at approximately 30 feet bgs. The analytical results of the soil samples from MW-1 and MW-2 reported total petroleum hydrocarbons as gasoline (TPH-g) and BTEX at concentrations below their respective LRLs (Hydro, 1991).

1992 Phase I Subsurface Investigation: In July 1992, Hydro advanced boring MW-4 and MW-6 to total depths of 40 feet bgs, and boring B-5 was advanced to 50 feet bgs, First groundwater was encountered at approximately 30 feet bgs in borings MW-4 and MW-6, and no free water was encountered in boring B-5. The analytical results of soil samples collected at 30 feet bgs from B-5 and MW-6 reported TPH-g and BTEX at concentrations below their respective LRLs. The maximum TPH-g and BTEX concentrations in soil reported in MW-4 were 6,000 milligrams per kilogram (mg/kg) and 34 mg/kg, respectively, from a depth of 20 feet bgs. Borings MW-4 and MW-6 were subsequently converted into monitoring wells (Hydro, 1992).

1994 Baseline Assessment Report: In September 1994, EMCON performed a Supplemental Site Assessment at the site. Four exploratory soil borings (THP-1, TB-2, TB-3, TB-4) were advanced to a maximum depth of 45 feet bgs north of the former and existing UST complexes (THP-1), at the former service bays (TB-2), north of the northern pump island (TB-3), and at a former pump island (TB-4). Additionally, one soil sample was collected from beneath each of the five dispensers (TD-1 through TD-5). Groundwater was encountered in TB-2 and TB-3 at approximately 33 to 36 feet bgs and groundwater samples were collected from TB-2 and TB-3 via temporarily well points. Maximum concentrations of 16 mg/kg TPH-g (TD-3), TPH as diesel (TPH-d) at concentrations ranging from 110 mg/kg to 5,000 mg/kg (TD-1 through TD-5), and benzene at concentrations below LRLs were reported in soil samples. TPHg was not reported above the LRLs and a maximum concentration of 0.7 µg/L benzene (TB-3) was reported in groundwater samples (EMCON, 1994).

1994 Well Installation: In October 1994, Hydro advanced boring MW-7 to a total depth of 45 feet bgs, and borings MW-8 and MW-9 were advanced to total depths of 40 feet bgs. First encountered groundwater was at approximately 27 feet bgs to 32 feet bgs. TPH-g and BTEX were not detected above their respective LRLs in soil samples collected from 25 feet bgs in each boring. The three borings were subsequently converted into monitoring wells MW-7 through MW-9 (Hydro, 1995).

1997 Offsite Well Installation: In July 1997, Pacific Environmental Group (PEG) drilled one boring (MW-10) offsite to a depth of approximately 37.5 feet bgs. Soil samples were collected and the boring was subsequently converted into a monitoring well. First groundwater was encountered at approximately 26 feet bgs. No TPH-g, BTEX or methyl tertiary butyl ether (MTBE) was detected in soil samples at concentrations above their respective LRLs in MW-10. TPH-g and BTEX were not detected in the groundwater sample from MW-10 at concentrations above their respective LRLs. However, MTBE was detected at concentration of 13 µg/L using EPA Method 8020 (PEG, 1997).

1998 UST and Associated Piping and Dispenser Removal: In August 1998, Environmental Resolutions, Inc. (ERI) removed the three gasoline USTs (6,000-gallon, 10,000-gallon, and 12,000-gallon), one 6,000-gallon diesel UST, and associated dispensers and piping from the site. There was no visible evidence of leakage from the USTs removed. A total of eight native soil samples were collected from beneath each end of the removed USTs (denoted as A through H on **Figure 2**) at depths of 14 to 16 feet bgs, and a total of 18 soil samples (denoted as I through Z on **Figure 2**) were collected from the former dispenser locations and from beneath the associated product lines at three feet bgs (ERI, 1998).

TPH-g was reported in five of the eight UST excavation samples at concentrations ranging from 3.7 mg/kg (S-15-T2S) to 5,300 mg/kg (S-15-T1S). TPH-d was detected at 630 mg/kg (S-15-T1N) and 800mg/kg (S-15 T1S) into two samples, benzene concentrations ranged between 0.40 mg/kg (S-15-T1N) to 0.95 mg/kg (S-16-T3N) in three samples, MTBE concentrations ranged between 0.028 mg/kg (S-14-T4S) to 5.3 mg/kg (S-16-T3N) in seven samples, and lead was not reported in the sample analyzed for lead. TPH-g was reported in nine of the eighteen dispenser and product line samples with concentrations ranging between 1.4 mg/kg (S-3-PL12) to 7,200 mg/kg (S-3-D4). TPH-d was detected between 4.8 mg/kg (S-3-PL12) to 190 mg/kg (S-3-PL11) in five samples, benzene was detected between 0.0089 mg/kg (S-3-PL12) to 22 mg/kg (S-3-D4) in three samples and MTBE was detected between 0.048 mg/kg (S-3-PL12) to 15 mg/kg (S-3-PL1) in ten samples (ERI, 1998).

During the 1998 UST replacement activities, approximately 389 tons of soil and backfill were transported off-site disposal. The existing 10,000-gallon diesel and three 12,000-gallon gasoline USTs were installed as replacements (ERI, 1998).

1999 Groundwater Recovery Test: In April 1999, Alisto Engineering Group (Alisto) conducted groundwater recovery tests on wells MW-1 through MW-4, MW-6, MW-7 and MW-10 to assess the spatial variation in hydraulic conductivity in the shallow water-bearing zone across the Site. Testing by the Bouwer-Rice method yielded hydraulic conductivities of 2.46 x 10^{-2} ft/min for MW-1, 2.42 x 10^{-4} ft/min for MW-2, 3.82 x 10^{-4} ft/min for MW-3, 5.75 x 10-4 ft/min for MW-4, 1.99 x 10^{-2} ft/min for MW-6 1.09 x 10^{-4} ft/min for MW-7 and 8.78 x 10^{-5} ft/min for MW-10. The geometric mean of the hydraulic conductivity and flow velocity values were calculated to be 1.37 x 10-5 feet per second and 73.85 feet per year, respectively (Alisto, 1999).

1999 Extraction Well Installation: In November 1999, Cambria Environmental Technology, Inc. (Cambria) installed two 4-inch diameter wells (EX-1 and EX-2) on-site to facilitate potential remedial activities at the site. Well EX-1 was drilled to 39.5 feet bgs and EX-2 was drilled to 36.5 feet bgs. Groundwater was first encountered at 26 feet bgs. No TPH-G or BTEX, and relatively low MTBE concentrations (below 0.012 mg/kg) were reported in soil samples collected from EX-1 and EX-2 (Cambria, 2000).

2000 Interim Remedial Action and Recovery Testing: Between March 16 and April 30, 2000, Cambria conducted interim remedial activities at the site to evaluate the effectiveness of hydrocarbon and MTBE reduction using short-term groundwater extraction. During eight extraction events, approximately 10,900 gallons of groundwater was extracted from wells EX-1, EX-2 and MW-2. During the extraction events, stable to slightly decreasing hydrocarbon and MTBE concentration trends were reported in samples collected from wells MW-2 and EX-1, located immediately southwest of the existing USTs. Samples from well EX-2, located north of the existing USTs, exhibited lower hydrocarbon and MTBE concentrations than MW-2 and EX-1. In April 2000, during the batch extraction events, recovery tests were conducted on wells EX-1, EX-2 and MW-2. Based on the recovery test measurements, the calculated hydraulic conductivity values ranged from 1.85 x 10^{-4} ft/min to 8.33 x 10^4 ft/min with resulting flow velocities of 16 ft/year to 73 ft/year at well MW-2 (Cambria, 2000).

The calculated hydraulic conductivity values ranged from 2.02 x 10^{5} ft/min to 3.85 x 10^{-5} ft/min for well EX-1 with resulting flow velocities of 1.8 to 3.4 Ft/yr. And a well EX-2, the calculated hydraulic conductivity values ranged from 3.04 x 10^{-4} ft/min to 2.13 x 10^{-3} ft/min for resulting flow velocities of 27 ft/year to 187 ft/year. The geometric mean of these values is a hydraulic conductivity of 3.0 x 10^{-4} ft/min and resulting flow velocity of 26 ft/year (Cambria, 2000).

2001 Dual-Phase Extraction Pilot Test: From October 29, through November 2, 2001, Cambia performed a dual phase soil vapor and groundwater extraction (DPE) pilot test on the monitoring wells with the highest historical hydrocarbon concentrations (i.e., MW-2 and MW-4) and the extraction wells (EX-1 and EX-2) at the site. The DPE test results indicated that the vacuum influence was limited to within 18 to 28 feet of the extraction well. Water levels typically decreased several feet in the extraction wells and had a varied response in the observation wells. Estimated vapor-phase removal rates were approximately 200-pounds of hydrocarbon per day in wells MW-4 and EX-1, and less than 5-pounds of hydrocarbon per day in wells MW-2 and EX-2 (Cambria 2002).

Soil vapor concentrations showed a decreasing trend in wells MW-4 and EX-1 during the short-term pilot tests. Grab water samples collected before and after the pilot tests remained the same order of magnitude. A total of 6,500 gallons of water was extracted during the DPE pilot test and appropriately disposed off-site. Overall, the test results indicated that DPE is a feasible remedial alternative for the site (Cambria, 2002). Alameda County Environmental Health (ACEH) approved Cambria's August 8, 2002, *Dual Phase Extraction Pilot Test Report* as a Corrective Action Plan (CAP).

2005 Soil and Water Investigation: In Fall 2005, URS completed nine Geoprobe soil borings with co-located Hydropunch borings. The first phase of work was on-site source area characterization: five boring locations (A-1 through A-5) were advanced in the vicinity of the possible hydrocarbons source areas such as locations of former and current USTs, products dispensers, and in the vicinity of MW-4 to adequately characterize the lateral and vertical extent of petroleum hydrocarbons in soils in the identified source areas. An off-site assessment was completed during the second phase of work (borings A-7 through A-10) to further define the downgradient, cross-gradient, and up-gradient extent of the groundwater plume (soil boring A-6 was unable to be advanced due to close proximity to electric lines and product piping). Maximum concentrations of gasoline range organics (GRO), benzene, and MTBE were detected in soil at concentrations of 490 mg/kg [A-4 (23.5-24')], 0.11 mg/kg [A-5 (35-35.5')], and 0.84 mg/kg [A-1 (46-46.5')], respectively. Maximum concentrations of GRO, benzene, and MTBE were detected in ground water at concentrations of 510,000 µg/L [A-2 (21.3')], 11,000 µg/L [A-4 (34-36')], and 39,000 ug/L [A-4 (34-36')], respectively (URS, 2005).

The cross-gradient and downgradient lateral extents of the dissolved hydrocarbon plume were characterized during the last investigation. However, the vertical extent of the dissolved-phase hydrocarbons on the southern portion of the site was not defined. Specifically, significantly elevated concentrations were detected in Hydropunch groundwater samples collected from the bottom depths of soil borings A-2, A-3 and A-4. The bottom Hydropunch sample from boring A-2 (40-42 ft bgs) contained concentrations of GRO, benzene, and MTBE at 36,000 µg/L. 1,800 µg/L, and 110 µg/L, respectively. The bottom Hydropunch sample from boring A-3 (34-36 ft bgs) contained concentrations of GRO, benzene, and MTBE at 12,000µg/L, 21µg/L, and 8.3µg/L respectively. The bottom Hydropunch sample from boring A-4 (34-36 ft bgs) contained GRO, benzene, and MTBE concentrations of 120,000µg/L, 11,000µg/L and 39,000 µg/L respectively (URS, 2005).

Therefore, the vertical extent of dissolved phase petroleum hydrocarbon contamination remains unknown in this southern area of the site (URS, 2005). A work plan for soil and water investigation to delineate the vertical extent of contamination in the southern portion of the site was submitted to ACEH in October 2006.

2007 Soil and Groundwater Investigation: In April 2007, Stratus Environmental, Inc. (Stratus) advanced cone penetrometer test (CPT) borings in three locations onsite (CPT-1 through CPT-3) to maximum depths of 60 feet bgs. CPT-1 was advanced southwest of the dispenser islands and southeast of monitoring well MW-1; CPT-2 was advanced south of the dispenser islands and southwest of monitoring well MW-4; CPT-3 was advanced in the eastern corner of the side as requested by the ACEH. An Ultraviolet Induced Fluorescence (UVIF) module was used at each CPT boring location, analyzing the vertical extent of petroleum hydrocarbons in additional to providing soil profiling data. Groundwater samples were collected from multiple depths at each boring locations; physical soil samples were not collected during this investigation.

- GRO was detected above laboratory reporting limits in five of the seven groundwater samples, ranging from 170 µg/L (CPT-3-28-32') to 170,000 µg/L (CPT-1-37-41').
- Benzene was detected above laboratory reporting limits in four of the seven groundwater samples, ranging from 0.51 µg/L (CPT-3-23-27') to 7,700 µg/L (CPT-2-37-41').
- Toluene was detected above laboratory reporting limits in three of the seven groundwater samples, ranging from 57 µg/L (CPT-1-30-34') to 670 µg/L (CPT-2-28-32').

- Ethylbenzene was detected above laboratory reporting limits in four of the seven groundwater samples, ranging from 530 µg/L (CPT-2-37-41') to 2,600 µg/L (CPT-1-37-41').
- Total xylenes were detected above laboratory reporting limits in four of the seven groundwater samples, ranging from 290 µg/L (CPT-2-37-41') to 9,600 µg/L (CPT-1-37-41').
- MTBE was detected above laboratory reporting limits in five of the seven groundwater samples, ranging from 4.4 µg/L (CPT-3-56-60') to 6,500 µg/L (CPT-2-37-41').
- TBA was detected above laboratory reporting limits in groundwater sample CPT-2-37-41' at 2,400 µg/L.

2007-2008 DPE System Installation: Construction of the DPE system was started by Broadbent & Associates, Inc (BAI) and Stratus in late 2007. The system consists of a thermal/catalytic oxidizer with a 25 horsepower liquid ring blower designed to extract water and vapor from six on-site extraction wells. Extracted vapor were to be treated by thermal/catalytic oxidation and discharged to the atmosphere under the oversight of the Bay Area Air Quality Management District. Extracted groundwater was to be treated by a sediment filter and three 1,000 pounds carbon vessels before being discharged into the City of Oakland sanitary sewer system. DPE wells DPE-1 through DPE-5 were installed at the site to total depths ranging from 35 feet to 40 feet bgs. Well MW-2 was overdrilled and destroyed to allow DPE-4 to be installed in the same borehole. The system is currently connected to six wells (DPE-1 through DPE-5 and EX-1) (BAI, 2008a).

As of the end of the fourth quarter 2008 the system had not been started. BAI and Stratus were still coordinating with Pacific Gas & Electric (PG&E) to install electrical service to the system. Natural gas was completed to the site and system in third quarter 2008 (BAI, 2008a).

During DPE construction activities, on-site groundwater monitoring well MW-11 was installed to a total depth of 40 feet bgs on the southern corner of the site. Soil samples collected at 20 feet and 30 feet bgs reported maximum concentrations of 1.9 mg/kg GRO and 0.0089 mg/kg benzene. MTBE was not reported above the LRL in either of the soil samples (BAI, 2008a).

2009-2011 DPE System Startup Efforts: In 2009, Antea Group (formerly Delta Consultants) began coordinating with the neighboring Eastmont Mall to allow trenching for the 3-phase power across the parking lot from behind the AutoZone. The total cost for installation efforts was estimated at approximately $70,000, which did not include Antea Group's efforts for oversight or extensive negotiations of an access agreement with the mall's property management firm. Additionally, the cost of providing power from this distance would have been significantly increased due to line loss. Total utility cost to run the system was estimated at approximately $4,000 a month. Additionally, groundwater discharge fees were estimated at approximately $4,000 to $5,000 a month.

Due to the significant cost associated with running power lines through the mall parking lot, Antea Group also explored the possibility of having 3-phase power being provided for a transformer near the neighboring Burger King restaurant. This transformer provided 208V/200A power, and the system would have needed modifications due to the 230A/240V design requirements. The total cost of the installation efforts was estimated at $75,000. Additionally, the system would have still required an approximate $9,000 to $10,000 a month in utility and discharge costs.

Antea Group also explored another alternative for the startup of the DPE system, which included reconfiguring the current system for single phase power. Single phase power is available at an underutilized transformer south of the site

across 73rd Avenue. Trenching would be required to install single phase power across the street and then across the site to the compound. A digital three phase converter would be required to convert single phase power to three phase power. PG&E would require a complete engineering evaluation to determine if our equipment will meet their specifications for single phase power (i.e., digital phase converter). The total cost of single phase power conversion and installation was estimated to be in excess of $110,000, and would have still required an approximate $9,000 to $10,000 a month in utility and discharge costs.

2011 Remedial Action Site Investigation: Antea Group submitted the *Remedial Action Investigation Work Plan*, dated August 03, 2011 to the ACEH. The ACEH approved the proposed scope of work in an agency letter to Antea Group dated September 1, 2011. Field activities are currently being performed as of the fourth quarter 2011.

FREE PRODUCT RECOVERY DURING GROUNDWATER MONITORING EVENTS

Free product was observed in groundwater monitoring well MW-2 between the 1993 and 1998, at thicknesses ranging from 2.60 feet (3/30/1994) to less than 0.01 feet (10/2/1997 to 7/21/1998). When free product was observed in the well, it was removed by bailer. Between 1993 and 1998, a cumulative total of 24.90 gallons of free product had been removed from the well (Alisto, 1998).

Free product was also observed in well MW-4 during the third quarter 2001 (0.03 inches), fourth quarter 2006 (0.11 inches), first quarter 2008 (0.01 inches), and third quarter 2008 (0.05 inches); and in EX-2 during the second quarter 2007 (0.01 inch). With the exception of 1.5 gallons of a free product/water mixture recovered from MW-4 during the third quarter 2008 (BAI, 2008b), free product was not recovered from these wells when observed.

SENSTIVE RECEPTORS

2000 Potential Receptor Survey, Expanded Site Plan and Well Search: In October 2000, Alisto completed a potential receptor survey, prepared an expanded site plan with neighboring property parcel information and underground utilities mapped, and identified wells in the vicinity of the site. A review of the files of the California Department of Water Resources (DWR) was performed to identify all known wells within one-half mile radius of the site. The results of the well search revealed that there were 17 wells other than the on-site monitoring sells. Of these, 11 were offsite monitoring wells; four were cathodic protection wells, one an industrial well, and one an irrigation well for a nearby cemetery. No domestic/municipal water supply wells were identified from review of the DWR files (Alisto, 2000).

2010 Sensitive Receptor Survey: Delta Consultants (Delta) submitted a *Sensitive Receptor Survey* in October 2010. As part of that receptor survey, Delta conducted a records review (environmental database search), a well radius search, and a search for other sensitive receptors which have the potential to be affected by the petroleum hydrocarbon release at the site. Delta's review of the historical aerial photographs indicated that the site in 1939 was primarily used for agricultural purposes with small family residences. In general, the site was developed to the current conditions with the station building in 1974. The historical topographic maps support the indication of residential houses and agriculture in the site region as early as 1915 to 1948. The well search indicated that 10 wells were within a one-mile radius of the site. DWR indicated the presence of 7 wells within a one-mile radius of the site. However, no records were found for the status of these wells as being active or abandoned. The main surface water bodies were Lake Merritt located northwest of the site and San Leandro Bay located west of the site. Several churches, schools and day care centers were located within a

one-mile radius of the site. Based on the above identified receptors' distances form the site, directions from the site, and extent of hydrocarbon impact at the site, they were not anticipated to be affected by the petroleum hydrocarbon release at the site.

Appendix B

Blaine Tech Services Groundwater Sampling Procedures

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

SAMPLING PROCEDURES OVERVIEW

SAFETY

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

INSPECTION AND GAUGING

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

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

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

EVACUATION

Depth to water measurements are collected by our personnel prior to purging and minimum purge volumes are calculated anew for each well based on the height of the water column and the diameter of the well. Expected purge volumes are never less than three case volumes and are set at no less than four case volumes in some jurisdictions.
Well purging devices are selected on the basis of the well diameter and the total volume to be evacuated. In most cases the well will be purged using an electric submersible pump (i.e. Grundfos) suspended near (but not touching) the bottom of the well. Small volumes of purgewater are often removed by hand bailing with a disposable bailer.

PARAMETER STABILIZATION

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

than once per case volume).

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

DEWATERED WELLS

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

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

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

PURGEWATER CONTAINMENT

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

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

SAMPLE COLLECTION DEVICES

All samples are collected using disposable bailers.

SAMPLE CONTAINERS

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

TRIP BLANKS

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

DUPLICATES

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

SAMPLE STORAGE

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

DOCUMENTATION CONVENTIONS

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

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

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

DECONTAMINATION

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

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

and bailers.

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

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

DISSOLVED OXYGEN READINGS

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

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

OXYIDATON REDUCTION POTENTIAL READINGS

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

Blaine Tech Services, Inc.
Standard Operating Procedure

Purge Water Handling Procedure

Purpose

Control of non-hazardous purge water disposal. This procedure outlines the handling and disposing of non-hazardous purge water for the DELTA/COP portfolio.

Procedure

1) All purge and rinsate water will be contained in onboard truck tanks or trailers. Water may be commingled with other sites in the same portfolio of DELTA/COP sites.

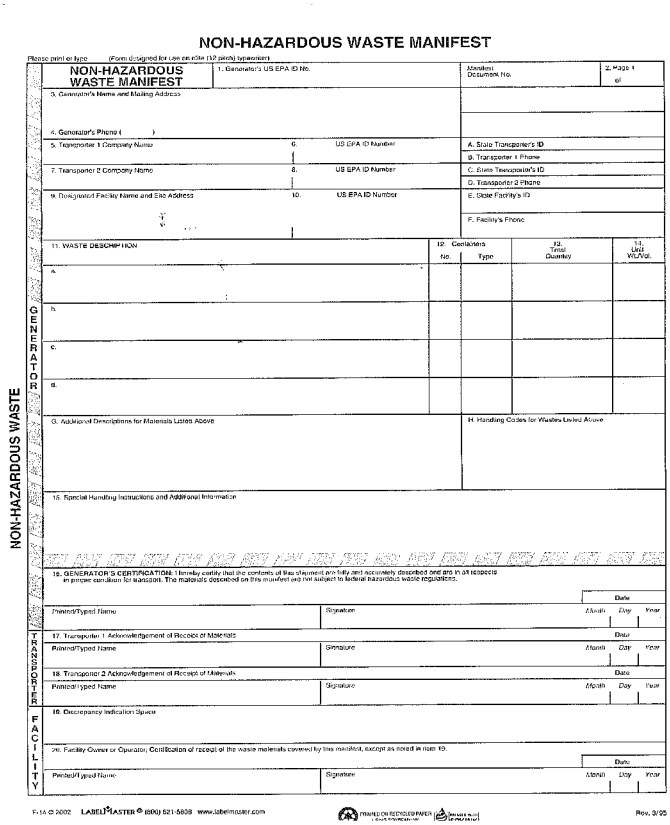
2) A Non-Hazardous Waste manifest will be generated prior to leaving site.

3) All water will be offloaded into a commingled DELTA/COP tank at BLAINE facility.

4) Water will then be offloaded from the DELTA/COP tank and the BLAINE facility and transported to a disposal facility.

   For Southern California sites water will be disposed at Crosby and Overton in Wilmington, CA.
   For Northern California water will be disposed at Seaport Environmental in Redwood City, CA.

Example Manifest:



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.
Manifest Document No.
2. Page 1 of

3. Generator's Name and Mailing Address

4. Generator's Phone ( )

5. Transporter 1 Company Name
6. US EPA ID Number
A. State Transporter's ID
B. Transporter 1 Phone

7. Transporter 2 Company Name
8. US EPA ID Number
C. State Transporter's ID
D. Transporter 2 Phone

9. Designated Facility Name and Site Address
10. US EPA ID Number
E. State Facility's ID
F. Facility's Phone

11. WASTE DESCRIPTION	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.
a.				
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above
H. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

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.

Printed/Typed Name | Signature | Month Day Year | Date

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name | Signature | Month Day Year | Date

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name | Signature | Month Day Year | Date

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 | Signature | Month Day Year | Date

NON-HAZARDOUS WASTE GENERATOR TRANSPORTER FACILITY

F-1A © 2002 LABELMASTER © (800) 621-5808 www.labelmaster.com Rev. 9/05

Appendix C

Blaine Tech Services Groundwater Sampling Field Data Sheets

Well-Head Inspection & Well Gauging Form

Antea Group Project No: 261117 Site Address: 7210 Bancroft Ave Oakland

Field Technician: Ben Pandl (Print Full Name & Company*) Date: 8/15/11 Weather: clear

Sample Order	Field Point	Well Condition: Bolts	Seal	Lid Secure	Lock	Expanding Cap	Water in Well Box	Well Casing Dia.	Time Gauged	Depth to Water (Feet)	Depth to Bottom (Feet)	Depth to LNAPL (Feet)	LNAPL Thickness (Feet)	Comments
7	MW-1	G	G	G	G	G	N	2	0737	15.40	38.49	—	—	
4	MW-3	G	G	G	G	G	N	2	0719	15.56	40.63	—	—	
13	MW-4	G	P	G	P	P	N	2	0826	16.00	39.19	—	—	ext. system, vault
6	MW-6	G	G	G	G	G	N	2	0731	16.07	39.47	—	—	
2	MW-7	G	G	G	G	G	N	2	0707	16.28	44.19	—	—	replaced lock
1	MW-8	G	G	G	G	G	N	2	0700	15.93	39.54	—	—	
~~8~~	~~MW-9~~							2				—	—	UNABLE TO LOCATE
5	MW-10	G	G	G	G	G	Y	2	0725	17.76	35.36	—	—	
11	MW-11	G	G	G	G	G	N	4	0812	14.58	37.01	—	—	
10	EX-1	G	G	G	G	G	N	4	0805	16.21	37.35	—	—	
3	EX-2	G	G	G	G	G	N	4	0713	16.59	35.08	—	—	
15	DPE-1	G	P	G	P	P	N	4	0839	16.46	39.56	—	—	ext. system, vault
9	DPE-2	G	G	G	G	G	N	4	0758	15.29	39.63	—	—	
12	DPE-3	G	G	G	G	G	N	4	0819	15.59	39.42	—	—	replaced 2 bolts
14	DPE-4	G	G	G	G	G	N	4	0832	16.15	39.70	—	—	

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

Well-Head Inspection & Well Gauging Form

Antea Group Project No: 26111.17 Site Address: 7210 Bancroft Ave Oakland

Field Technician: Ben Powell (Print Full Name & Company*) Date: 8/15/11 Weather: clear

Sample Order	Field Point	Well Condition: Bolts	Seal	Lid Secure	Lock	Expanding Cap	Water in Well Box	Well Casing Dia.	Time Gauged	Depth to Water (Feet)	Depth to Bottom (Feet)	Depth to LNAPL (Feet)	LNAPL Thickness (Feet)	Comments
16	DPE-5	G	P	G	P	P	N	4	0945	15.96	59.16	—	—	ext. system vault

Notes:

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

CIRCLE ONE: YES or (NO**)

anteagroup

*Form provided by Antea Group

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

Groundwater Sampling Form

Site Address:	7210 Bancroft Ave Oakland		
Project No:	260111.7	Field Technician:	Ben Parnell
Field Point:	EX-1	Date:	8/15/11
Depth to Water (DTW) (ft bgs):	16.21	Well Diameter (in):	2 (4) 6 8 ___
Depth to LNAPL (ft bgs):	—	Thickness of LNAPL (ft):	—
Total Depth of Well (ft bgs):	37.35	Water Column Height (ft):	~~15.14~~ BD 21.14

Purging Info and Calculations:

Purge Method:
Low-Flow
(3 casing volumes)
Other:_____

Purge Equipment:
Disposable Bailer
(Electric Submersible)
Peristaltic Pump
Bladder Pump
Other:_____

Sample Collection Method:
(Disposable Bailer)
Extraction Port
Dedicated Tubing
Disposable Tubing
Other:_____

Water Column Height (ft): ~~15.14~~ BD 21.14 X Conversion Factor (gal/ft): 0.66 = Casing Volume (gal): 10.00

Casing Volume (gal): 10.00 X Specified Volumes: 3 = Calculated Purge (gal): 30.00

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

Purge: Start Time: 1132 Stop Time: 1146

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				—		—		
1135	21.19	6.85	518	-77.4	31	2.11	5.0	
1138	21.35	6.81	511	-80.4	17	0.77	10.0	
1141	21.55	6.76	501	-84.3	12	0.59	15.0	
1145	21.44	6.62	536	-81.3	10	0.57	20.0	
1146	Well Dewatered @ 23.0 Gals							35.41
1530	22.10	6.20	.407	5.1	16	2.10		
Post-Purge				—		—		

Did Well dewater? (Yes) No Total Purge volume (gal): 23.0

Other Comments: 80% @ : 19.23 * NP @ 18.5' * MS/MSD collected * purged through a flow cell
DTW: 18.84 * Post Fe^{2+}: 1.4 mg/L

Sample Info:

Sample ID: EX-1_20110831 Sample Date and Time: 8/15/11 @ 1530

Selected Analysis: SEE COC

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

Signature: [signature] Date: 8/15/11

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

(12)

Groundwater Sampling Form

Site Address:	7210 Bancroft Ave Oakland		
Project No:	261117	Field Technician:	Ben Parnell
Field Point:	EX-2	Date:	8/15/11
Depth to Water (DTW) (ft bgs):	16.39	Well Diameter (in):	2 (4) 6 8 ___
Depth to LNAPL (ft bgs):	—	Thickness of LNAPL (ft):	—
Total Depth of Well (ft bgs):	35.08	Water Column Height (ft):	—

Purging Info and Calculations:

Purge Method:
Low-Flow
(3 casing volumes)
Other: NP @ 15.5'

Purge Equipment:
Disposable Bailer
(Electric Submersible)
Peristaltic Pump
Bladder Pump
Other: ___

Sample Collection Method:
(Disposable Bailer)
Extraction Port
Dedicated Tubing
Disposable Tubing
Other: ___

Water Column Height (ft): — 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				—		—		
1015	20.84	7.51	298	-4.4	31	0.77	—	
Post-Purge				—		—		

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

Other Comments: 80% @: — *NP @ 15.5' *Purged through a flow cell
DTW: — *Post Fe^{2+}: 0.0mg/L

Sample Info:

Sample ID:	EX-2_20110831	Sample Date and Time:	8/15/11 @ 1015
Selected Analysis:	SEE COC		

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Signature: [signature] Date: 8/15/11

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

(3)

Groundwater Sampling Form

Site Address:	7210 Bancroft Ave Oakland		
Project No:	260111.17	Field Technician:	Ben Parnell
Field Point:	MW-4	Date:	8/15/11
Depth to Water (DTW) (ft bgs):	16.06	Well Diameter (in):	(2) 4 6 8 ___
Depth to LNAPL (ft bgs):	—	Thickness of LNAPL (ft):	—
Total Depth of Well (ft bgs):	39.19	Water Column Height (ft):	23.13

Purging Info and Calculations:

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

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

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

Water Column Height (ft): 23.13 X Conversion Factor (gal/ft): 0.17 = Casing Volume (gal): 4.0

Casing Volume (gal): 4.0 X Specified Volumes: 3 = Calculated Purge (gal): 12.0

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

Purge: Start Time: 1224 Stop Time: 1232

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				—		—		
1226	20.92	6.81	927	-78.5	26	1.99	2.0	
1228	21.23	6.76	924	-73.1	20	0.96	4.0	
1229	21.46	6.74	914	-70.7	16	0.71	6.0	
1230	21.24	6.68	939	-69.0	13	0.71	8.0	
1231	21.25	6.66	948	-71.2	10	0.72	10.0	
1232	21.28	6.66	949	-72.0	8	0.71	12.0	
Post-Purge				—		—		

Did Well dewater? Yes (No) Total Purge volume (gal): 12.0

Other Comments: 80% @ : 20.68
DTW: 16.96
* purged through a flow cell

Sample Info:

Sample ID:	MW-4_20110831	Sample Date and Time:	8/15/11 @ 1240
Selected Analysis:	SEE COC		

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

Signature: _____ Date: 8/15/11

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

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

(13)

Groundwater Sampling Form

Site Address:	7210 Bancroft Ave Oakland		
Project No:	261117	Field Technician:	Ben Pavell
Field Point:	MW-7	Date:	8/15/11
Depth to Water (DTW) (ft bgs):	16.28	Well Diameter (in):	(2) 4 6 8 ___
Depth to LNAPL (ft bgs):	—	Thickness of LNAPL (ft):	—
Total Depth of Well (ft bgs):	44.19	Water Column Height (ft):	27.91

Purging Info and Calculations:

Purge Method:
Low-Flow
(3 casing volumes)
Other:_____

Purge Equipment:
Disposable Bailer
(Electric Submersible)
Peristaltic Pump
Bladder Pump
Other:_____

Sample Collection Method:
(Disposable Bailer)
Extraction Port
Dedicated Tubing
Disposable Tubing
Other:_____

Water Column Height (ft): 27.91 X Conversion Factor (gal/ft): 0.17 = Casing Volume (gal): 4.7

Casing Volume (gal): 4.7 X Specified Volumes: 3 = Calculated Purge (gal): 14.1

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

Purge: **Start Time:** 0945 **Stop Time:** 0956

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				—		—		
0947	22.98	7.52	497	-173.3	212	1.48	2.4	
0950	21.84	7.30	474	-155.8	117	0.88	4.7	
0951	21.69	7.29	438	-150.0	73	0.84	7.1	
0953	21.69	7.28	436	-146.5	51	0.77	9.4	
0954	21.85	7.24	454	-136.1	29	0.61	11.8	
0956	21.92	7.22	402	-130.3	25	0.55	14.1	
Post-Purge				—		—		

Did Well dewater? Yes (No) Total Purge volume (gal): 14.1

Other Comments: 80% @ : 21.86 * NP @ 25.5' DTW: 17.05 * purged through a flow cell

Sample Info:

Sample ID:	MW-7_20110831	Sample Date and Time:	8/15/11 @ 1035
Selected Analysis:	SEE COC		

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

Signature: Ben Pavell Date: 8/15/11

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

(2)

Groundwater Sampling Form

Site Address:	7210 Bancroft Ave Oakland		
Project No:	26111117	Field Technician:	Ben Pannell
Field Point:	MW-10	Date:	8/15/11
Depth to Water (DTW) (ft bgs):	17.76	Well Diameter (in):	(2) 4 6 8 ___
Depth to LNAPL (ft bgs):	—	Thickness of LNAPL (ft):	—
Total Depth of Well (ft bgs):	35.36	Water Column Height (ft):	—

Purging Info and Calculations:

Purge Method:

Low-Flow
(3 casing volumes)
Other: ND @ 15.5'

Purge Equipment:

Disposable Bailer
(Electric Submersible)
Peristaltic Pump
Bladder Pump
Other: ___

Sample Collection Method:

(Disposable Bailer)
Extraction Port
Dedicated Tubing
Disposable Tubing
Other: ___

Water Column Height (ft): — 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				—		—		
1120	22.41	6.69	1049	32.1	1.77	2.00	—	
Post-Purge				—		—		

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

Other Comments: 80% @ : — DTW: — * purged through a flow cell

Sample Info:

Sample ID:	MW-10_20110831	Sample Date and Time:	8/15/11 @ 1120
Selected Analysis:	SEE COC		

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Signature: [signature] Date: 8/15/11

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

Groundwater Sampling Form

Site Address:	7210 Bancroft Ave Oakland		
Project No:	26111 17	Field Technician:	Ben Pavell
Field Point:	MW-11	Date:	8/15/11
Depth to Water (DTW) (ft bgs):	14.58	Well Diameter (in):	2 (4) 6 8 ___
Depth to LNAPL (ft bgs):	—	Thickness of LNAPL (ft):	—
Total Depth of Well (ft bgs):	37.01	Water Column Height (ft):	22.43

Purging Info and Calculations:

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

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

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

Water Column Height (ft): 22.43 X Conversion Factor (gal/ft): 0.17 = Casing Volume (gal): 3.8

Casing Volume (gal): 3.8 X Specified Volumes: 3 = Calculated Purge (gal): 11.4

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

Purge: Start Time: 1203 Stop Time: 1211

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				—		—		
1204	21.12	6.73	431	-60.1	23	4.90	1.9	
1205	20.07	6.89	470	-72.0	17	2.77	3.8	
1206	20.00	6.90	419	-84.3	15	2.00	5.7	
1207	19.90	6.91	418	-89.0	13	1.25	7.6	
1208	19.96	6.87	417	-89.8	11	0.90	9.5	
1209	20.05	6.86	418	-91.6	9	0.82	11.4	
1210	20.16	6.86	424	-93.2	8	0.80	13.3	
Post-Purge				—		—		

Did Well dewater? Yes (No) Total Purge volume (gal): 13.3

Other Comments: 80% @ : 19.06
DTW: 17.45
* purged through a flow cell

Sample Info:

Sample ID: MW-11_20110831 Sample Date and Time: 8/15/11 @ 1215

Selected Analysis: SEE COC

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Signature: Ben Pavell Date: 8/15/11

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

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

11

Groundwater Sampling Form

Site Address:	7210 Bancroft Ave Oakland		
Project No:	261117	Field Technician:	Ben Parnell
Field Point:	DPE-1	Date:	8/15/11
Depth to Water (DTW) (ft bgs):	16.46	Well Diameter (in):	2 (4) 6 8 ___
Depth to LNAPL (ft bgs):	—	Thickness of LNAPL (ft):	—
Total Depth of Well (ft bgs):	39.56	Water Column Height (ft):	23.1

Purging Info and Calculations

Purge Method:

Low-Flow
(3 casing volumes)
Other:_____

Purge Equipment:

Disposable Bailer
(Electric Submersible)
Peristaltic Pump
Bladder Pump
Other:_____

Sample Collection Method:

(Disposable Bailer)
Extraction Port
Dedicated Tubing
Disposable Tubing
Other:_____

Water Column Height (ft): 23.10 X Conversion Factor (gal/ft): 0.66 = Casing Volume (gal): 15.2

Casing Volume (gal): 15.2 X Specified Volumes: 3 = Calculated Purge (gal): 45.6

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

Purge: Start Time: 1320 Stop Time: 1353

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				—		—		
1333	21.82	6.87	675	-59.2	412	1.14	7.6	
1336	22.27	6.79	666	-58.4	334	0.57	15.2	
1339	21.92	6.79	636	-59.9	248	0.49	22.8	
1341	22.03	6.75	662	-60.8	37	0.60	30.4	
1344	22.04	6.75	678	-62.8	19	0.51	38.0	
1347	22.06	6.74	692	-64.6	15	0.46	45.6	
Post-Purge				—		—		

Did Well dewater? Yes (No) Total Purge volume (gal): 45.6

Other Comments: 80% @ : 21.09 * Post Fe 2+: 1.6 mg/L * purged through a flow cell
DTW: 20.49

Sample Info:

Sample ID: DPE-1_20110831 Sample Date and Time: 8/15/11 @ 1355

Selected Analysis: SEE COC

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

Signature: [signature] Date: 8/15/11

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

(15)

Groundwater Sampling Form

Site Address:	7210 Bancroft Ave Oakland		
Project No:	261117	Field Technician:	Ben Parnell
Field Point:	DPE-4	Date:	8/15/11
Depth to Water (DTW) (ft bgs):	16.15	Well Diameter (in):	2 (4) 6 8 ___
Depth to LNAPL (ft bgs):	—	Thickness of LNAPL (ft):	—
Total Depth of Well (ft bgs):	39.70	Water Column Height (ft):	23.55

Purging Info and Calculations:

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

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

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

Water Column Height (ft): 23.55 X Conversion Factor (gal/ft): 0.66 = Casing Volume (gal): 15.5

Casing Volume (gal): 15.5 X Specified Volumes: 3 = Calculated Purge (gal): 46.5

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

Purge: Start Time: 1326 Stop Time: 1422

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				—		—		
1308	21.10	6.76	889	-83.1	311	1.22	8.3	
1311	21.31	6.78	917	-89.2	182	0.79	15.5	
1313	21.30	6.79	925	-91.2	144	0.74	23.8	
1316	21.24	6.76	940	-94.6	503	0.68	31.0	
1319	21.23	6.75	939	-95.6	317	0.65	39.3	
1322	21.29	6.74	930	-97.1	298	0.64	46.5	25.38
Post-Purge				—		—		

Did Well dewater? Yes (No) Total Purge volume (gal): 46.5

Other Comments: 80% @ : 20% * Post Fe^{2+}: 7.0mg/L * purged through a flow cell

DTW: 16.77 * ODOR

Sample Info:

Sample ID: DPE-4_20110831 Sample Date and Time: 8/15/11 @ 1505

Selected Analysis: SEE COC

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

Signature: [signature] Date: 8/15/11

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

(14)

Groundwater Sampling Form

Site Address:	7210 Bancroft Ave Oakland		
Project No:	261117	Field Technician:	Ben Pavell
Field Point:	DPE-5	Date:	8/15/11
Depth to Water (DTW) (ft bgs):	15.96	Well Diameter (in):	2 (4) 6 8 ___
Depth to LNAPL (ft bgs):	—	Thickness of LNAPL (ft):	—
Total Depth of Well (ft bgs):	39.16	Water Column Height (ft):	23.2

Purging Info and Calculations:

Purge Method:
Low-Flow
(3 casing volumes)
Other:_____

Purge Equipment:
Disposable Bailer
(Electric Submersible)
Peristaltic Pump
Bladder Pump
Other:_____

Sample Collection Method:
(Disposable Bailer)
Extraction Port
Dedicated Tubing
Disposable Tubing
Other:_____

Water Column Height (ft): 23.2 X Conversion Factor (gal/ft): 0.66 = Casing Volume (gal): 15.3

Casing Volume (gal): 15.3 X Specified Volumes: 3 = Calculated Purge (gal): 45.9

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

Purge: Start Time: 1415 Stop Time: 1450

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				—		—		
1417	21.17	6.83	1049	-94.5	23	3.86	7.6	
1420	21.55	6.80	1024	-94.9	19	0.77	15.3	
1422	21.33	6.75	1002	-88.8	17	0.72	22.9	
1425	21.24	6.73	991	-87.5	13	0.69	30.6	
1427	21.30	6.72	984	-86.1	13	0.65	38.2	
1430	21.33	6.71	993	-89.1	12	0.62	45.9	
Post-Purge				—		—		

Did Well dewater? Yes (No) Total Purge volume (gal): 45.9

Other Comments: 80% @ : 20.60 * Post Fe 2+: 0.5 mg/L DTW: 19.16 * purged through a flow cell

Sample Info:

Sample ID:	DPE-5_20110831	Sample Date and Time:	8/15/11 @ 1440
Selected Analysis:	SEE COC		

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

Signature: _____ Date: 8/15/11

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

(16)

20110831 2611117 WG_Q_201108 BO

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COP ELT CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of
Cooler # ____ of ____

PACE SEATTLE

3Q 2011 GW Event

Required Lab Information:

Lab Name:	Pace-Seattle
Address:	940 S. Harney Street Seattle WA 98108
Lab PM:	Regina Ste. Marie
Phone/Fax:	P: 206-957-2433 F: 206-767-5063
Lab PM email	Regina.SteMarie@pacelabs.com
Applicable Lab Quote #:	

Required Project Information:

Site ID #:	2611117
Task:	WG_Q_201108
AnteaGrp proj#	
Site Address	7210 BANCROFT AVE
City	OAKLAND
State	CA 94605
AG PM Name:	Doug Umland
Phone/Fax:	P: 1-800-477-7411 F: 408-225-8506
AG PM Email:	doug.umland@anteagroup.com

Required Invoice Information:

Send Invoice to:	David Sowle
Address:	11050 White Rock Road, Suite 110
City/State	Rancho Cordova CA 95670
Phone #:	1-800-477-7411
Reimbursement project?	
Non-reimbursement project?	Y
Mark one	
Send EDD to	copeltdata@intelligentehs.com
CC Hardcopy report to	dan.keltner@anteagroup.com
CC Hardcopy report to	

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

Valid Matrix Codes

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

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / ,-) Samples IDs MUST BE UNIQUE)	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	SAMPLE DATE	SAMPLE TIME	#OF CONTAINERS	FIELD FILTERED? (Y/N)	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Requested Analyses: 8015TPHGRO	8260BtexMTBE/TOXYCA	RSK175 Methane	300 Sulfate	4500-S2E Sulfide	6010 Total Iron	353.2 Nitrate	352.1 Nitrite	5210B Biological Oxygen	410.4 Chemical Oxygen	Comments/Lab Sample I.D.
1	EX-1_20110831	WG	G	8·15·11	1530	10	N				X					X	X	X	X	X	X	X	X	X	X	
2	EX-2_20110831	WG	G	8·15·11	1015	6	N				X					X	X	X	X	X	X	X	X	X	X	7 Oxy's = DIPE, TBA
3	MW-10_20110831	WG	G	8·15·11	1120	6	N				X					X	X									TAME, ETBE, 1,2-DC
4	MW-11_20110831	WG	G	8·15·11	1215	6	N				X					X	X									EDB, Ethanol
5	MW-4_20110831	WG	G	8·15·11	1240	6	N				X					X	X									
6	MW-7_20110831	WG	G	8·15·11	1035	6	N				X					X	X									
7	~~MW-9_20110831~~	WG																								
8	TB1_20110831	W	G	8·15·11	0800	4	N				X					X	X									
9	DPE-1_20110831	WG	G	8·15·11	1355	6	N				X					X	X	X	X	X	X	X	X	X	X	
10	DPE-4_20110831	WG	G	8·15·11	1505	6	N				X					X	X	X	X	X	X	X	X	X	X	
11	DPE-5_20110831	WG	G	8·15·11	1440	6	N				X					X	X	X	X	X	X	X	X	X	X	
12																										
13																										

Additional Comments/Special Instructions:

Global ID: T0600100201

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
[signature] /BTS	8·15·11	1655			

Sample Receipt Conditions

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

SHIPPING METHOD: (mark as appropriate) UPS COURIER FEDEX US MAIL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Ben Powell

SIGNATURE of SAMPLER: [signature]

DATE Signed: 8·15·11 Time: 1655

Final 11/13/06, AMTait

Xinnogen

anteagroup

COP ELT CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1
Cooler # ____ of ____

PACE SEATTLE

3Q 2011 GW Event

Required Lab Information:

Lab Name:	Pace-Seattle
Address:	940 S. Harney Street Seattle WA 98108
Lab PM:	Regina Ste. Marie
Phone/Fax:	P: 206-957-2433 F: 206-767-5063
Lab PM email	Regina.SteMarie@pacelabs.com
Applicable Lab Quote #:	

Required Project Information:

Site ID #:	2611117
Task:	WG_Q_201108
AnteaGrp proj#	
Site Address:	7210 BANCROFT AVE
City	OAKLAND
State	CA 94605
AG PM Name:	Doug Umland
Phone/Fax:	P: 1-800-477-7411 F: 408-225-8506
AG PM Email:	doug.umland@anteagroup.com

Required Invoice Information:

Send Invoice to:	David Sowle
Address:	11050 White Rock Road, Suite 110
City/State	Rancho Cordova CA 95670
Phone #:	1-800-477-7411
Reimbursement project?	
Non-reimbursement project?	Y
Send EDD to	copeltdata@intelligentehs.com
CC Hardcopy report to	dan.keltner@anteagroup.com
CC Hardcopy report to	

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

Valid Matrix Codes: MATRIX: DRINKING WATER WT; GROUND WATER GW; WASTE WATER WW; PRODUCT P; SOIL SO; SOIL GS; WIPE WP; AIR AIR; SOIL VAPOR SV; SOIL GAS SG; WATER WT; SURFACE WATER WS; WATER QC WQ; SEDIMENT SE; OTHER OT; ANIMAL TISSUE TS

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / ,-) IDs MUST BE UNIQUE)	Samples	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	SAMPLE DATE	SAMPLE TIME	# OF CONTAINERS	FIELD FILTERED? (Y/N)	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Requested Analyses: 5310C Total Organic C	353.1 Total Kjeldhal Nit	350.1 Ammonia	365.1 Ortho-Phosphorus	365.4 Total Phosphorous	300 Chloride	Comments/Lab Sample I.D.
1	EX-1_20110831		WG	G	8.15.11	1530	11	N	X	X	X	X				X	X	X	X	X	X		Fe= 1.4 mg/L
2	EX-2_20110831		WG	G	8.15.11	1015	11	N	X	X	X	X				X	X	X	X	X	X		Fe= 0.0 mg/L
3	DPE-1_20110831		WG	G	8.15.11	1355	11	N	X	X	X	X				X	X	X	X	X	X		Fe= 1.0 mg/L
4	DPE-4_20110831		WG	G	8.15.11	1505	11	N	X	X	X	X				X	X	X	X	X	X		Fe= 7.0 mg/L
5	DPE-5_20110831		WG	G	8.15.11	1440	11	N	X	X	X	X				X	X	X	X	X	X		Fe= 0.5 mg/L
6							AD																
7																							
8																							
9																							
10																							
11																							
12																							
13																							

Additional Comments/Special Instructions:

Global ID: T0600100201

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
[illegible]/BTS	8/15/11	1655			

Sample Receipt Conditions

Temp in °C	Samples on Ice?	Sample Intact?	Trip Blank?
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

SHIPPING METHOD: (mark as appropriate) UPS COURIER FEDEX / US MAIL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Ben Pane II
SIGNATURE of SAMPLER: [signature] DATE Signed: 8.15.11 Time: 1655

Inogen Environmental Alliance

anteagroup

COP ELT CHAIN-OF-CUSTODY / Analytical Request Document

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

McCampbell

3Q 2011 GW Event

Required Lab Information:

Lab Name:	Pace-Seattle
Address:	
	940 S. Harney Street Seattle WA 98108
Lab PM:	Regina Ste. Marie
Phone/Fax:	P: 206-957-2433 F: 206-767-5063
Lab PM email	Regina.SteMarie@pacelabs.com
Applicable Lab Quote #:	

Required Project Information:

Site ID #:	2611117	Task:	WG_Q_201108		
AnteaGrp proj#:					
Site Address:	7210 BANCROFT AVE				
City:	OAKLAND	State:	CA 94605		
AG PM Name:	Doug Umland				
Phone/Fax:	P: 1-800-477-7411 F: 408-225-8506				
AG PM Email:	doug.umland@anteagroup.com				

Required Invoice Information:

Send Invoice to:	David Sowle		
Address:	11050 White Rock Road, Suite 110		
City/State	Rancho Cordova CA 95670	Phone #:	1-800-477-7411
Reimbursement project?		Non-reimbursement project?	Y
Send EDD to	copeltdata@intelligentehs.com		
CC Hardcopy report to	dan.keltner@anteagroup.com		
CC Hardcopy report to			

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

Valid Matrix Codes: MATRIX: DRINKING WATER (WP), GROUND WATER (WG), WASTE WATER (WW), PURE PRODUCT (LP), SOIL (SO), OIL (OI), WIPE (SW), AMBIENT AIR (AA), SVE AIR (AE), SOIL GAS (GS); MATRIX: WATER (W), SURFACE WATER (SW), WATER QC (WQ), SLUDGE (SL), RINSEATE (RS), OTHER (OT), ANIMAL TISSUE (TA)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / ,-) IDs MUST BE UNIQUE) Samples	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	SAMPLE DATE	SAMPLE TIME	# OF CONTAINERS	FIELD FILTERED? (Y/N)	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Requested Analyses: 200.8 Total Chromium	218.6 Hexavalent Chrom	Cr+3 Calculation	Comments/Lab Sample I.D.
1	EX-1_20110831	WG	G	8-15-11	1530	2	N			X			X			X	X	X	
2	EX-2_20110831	WG	G	8-15-11	1015	2	N			X			X			X	X	X	
3	DPE-1_20110831	WG	G	8-15-11	1355	2	N			X			X			X	X	X	
4	DPE-4_20110831	WG	G	8-15-11	1505	2	N			X			X			X	X	X	
5	DPE-5_20110831	WG	G	8-15-11	1440	2	N			X			X			X	X	X	
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			

Additional Comments/Special Instructions:

Global ID: T0600100201

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
BB Bell / BTS	8/15/11	1650	Clark Last	8/15/11	1650

Sample Receipt Conditions

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

SHIPPING METHOD: (mark as appropriate) UPS COURIER FEDEX US MAIL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER:
SIGNATURE of SAMPLER: DATE Signed: Time:

Xinogen Environmental Alliance

TEST EQUIPMENT CALIBRATION LOG

PROJECT NAME COP-Antea 7210 Bancroft Oakland				PROJECT NUMBER 110815-BP1			
EQUIPMENT NAME	EQUIPMENT NUMBER	DATE/TIME OF TEST	STANDARDS USED	EQUIPMENT READING	CALIBRATED TO: OR WITHIN 10%:	TEMP.	INITIALS
YSI 556	08A100352	8/15/11 @ 0915	pH 7.00 10.00 4.00	pH 7.01 10.02 3.97	yes	22.56°	BD
			cond 3900 us	3897 us	yes	22.31°C	BD
			ORP 234 mV @ 22°	233 mV	yes		BD
			DO 10.00 mg/L	DO 10.02 mg/L	yes	21.06°C	BP

Appendix D

Groundwater Flow and Gradient Data (Rose Diagram)

GROUNDWATER GRADIENT AND FLOW DIRECTION DATA
76 (FORMER BP) SERVICE STATION NO. 11117
7210 BANCROFT AVENUE
OAKLAND, CALIFORNIA

Site	Monitoring Date	Groundwater Gradient (feet per foot)		Groundwater Flow Direction														
				N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW
11117	9/12/2002	0.03		0	0	**1**	0	0	0	0	0	0	0	0	0	0	0	0	0
	12/12/2002	0.02		0	0	**1**	0	0	0	0	0	0	0	0	0	0	0	0	0
	3/10/2003	0.03		0	0	**1**	0	0	0	0	0	0	0	0	0	0	0	0	0
	5/12/2003	0.055		0	**1**	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8/27/2003	0.036		0	**1**	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	11/10/2003	0.012		0	**1**	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2/3/2004	0.013		0	0	**1**	0	0	0	0	0	0	0	0	0	0	0	0	0
	5/4/2004	0.015		0	0	**1**	0	0	0	0	0	0	0	0	0	0	0	0	0
	8/31/2004	0.01		0	0	**1**	0	0	0	0	0	0	0	0	0	0	0	0	0
	11/23/2004	0.04		0	**1**	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1/18/2005	0.02		0	0	**1**	0	0	0	0	0	0	0	0	0	0	0	0	0
	6/29/2005	0.003	V*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6/29/2005	0.006	V*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	9/1/2005	0.03		**1**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	11/3/2005	0.008		**1**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2/14/2006	0.02		0	**1**	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5/30/2006	0.03		**1**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8/29/2006	0.006		0	0	**1**	0	0	0	0	0	0	0	0	0	0	0	0	0
	11/29/2006	0.002	*	0	0	0	0	0	0	0	0	0	0	0	0	**1**	0	0	0
	11/29/2006	0.001	*	0	0	0	0	0	0	**1**	0	0	0	0	0	0	0	0	0
	2/20/2007	0.004		0	0	**1**	0	0	0	0	0	0	0	0	0	0	0	0	0
	5/25/2007	0.005		**1**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8/9/2007	0.002		0	0	0	0	0	0	0	0	0	0	0	0	0	0	**1**	0
	11/9/2007	0.02		**1**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12/14/2007	0.005	*	0	0	0	0	0	0	0	0	0	0	**1**	0	0	0	0	0
	12/14/2007	0.003	*	0	0	0	0	0	0	**1**	0	0	0	0	0	0	0	0	0
	2/11/2008	0.02		0	0	**1**	0	0	0	0	0	0	0	0	0	0	0	0	0
	5/22/2008	0.02		0	0	0	0	0	0	**1**	0	0	0	0	0	0	0	0	0
	8/25/2008	0.003		0	0	0	0	0	0	**1**	0	0	0	0	0	0	0	0	0
	12/17/2008	0.005		0	0	0	0	0	0	0	0	0	**1**	0	0	0	0	0	0
	2/25/2009	0.006		0	0	0	0	0	0	**1**	0	0	0	0	0	0	0	0	0
	5/21/2009	0.004		0	0	0	0	0	0	0	**1**	0	0	0	0	0	0	0	0
	8/14/2009	0.006	*	0	0	0	0	0	0	0	0	0	0	**1**	0	0	0	0	0
	8/14/2009	0.004	*	0	0	0	0	0	0	0	**1**	0	0	0	0	0	0	0	0
	2/10/2010	0.011	*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**1**	0
	2/10/2010	0.040	*	0	0	0	**1**	0	0	0	0	0	0	0	0	0	0	0	0
	8/20/2010	0.022	*	0	0	**1**	0	0	0	0	0	0	0	0	0	0	0	0	0
	8/20/2010	0.032	*	0	0	0	0	0	0	0	0	0	0	**1**	0	0	0	0	0
	2/7/2011		V*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8/15/2011		V*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0.015	**Average**	**5**	**5**	**10**	**1**	**0**	**0**	**5**	**2**	**0**	**1**	**2**	**0**	**1**	**0**	**2**	**0**

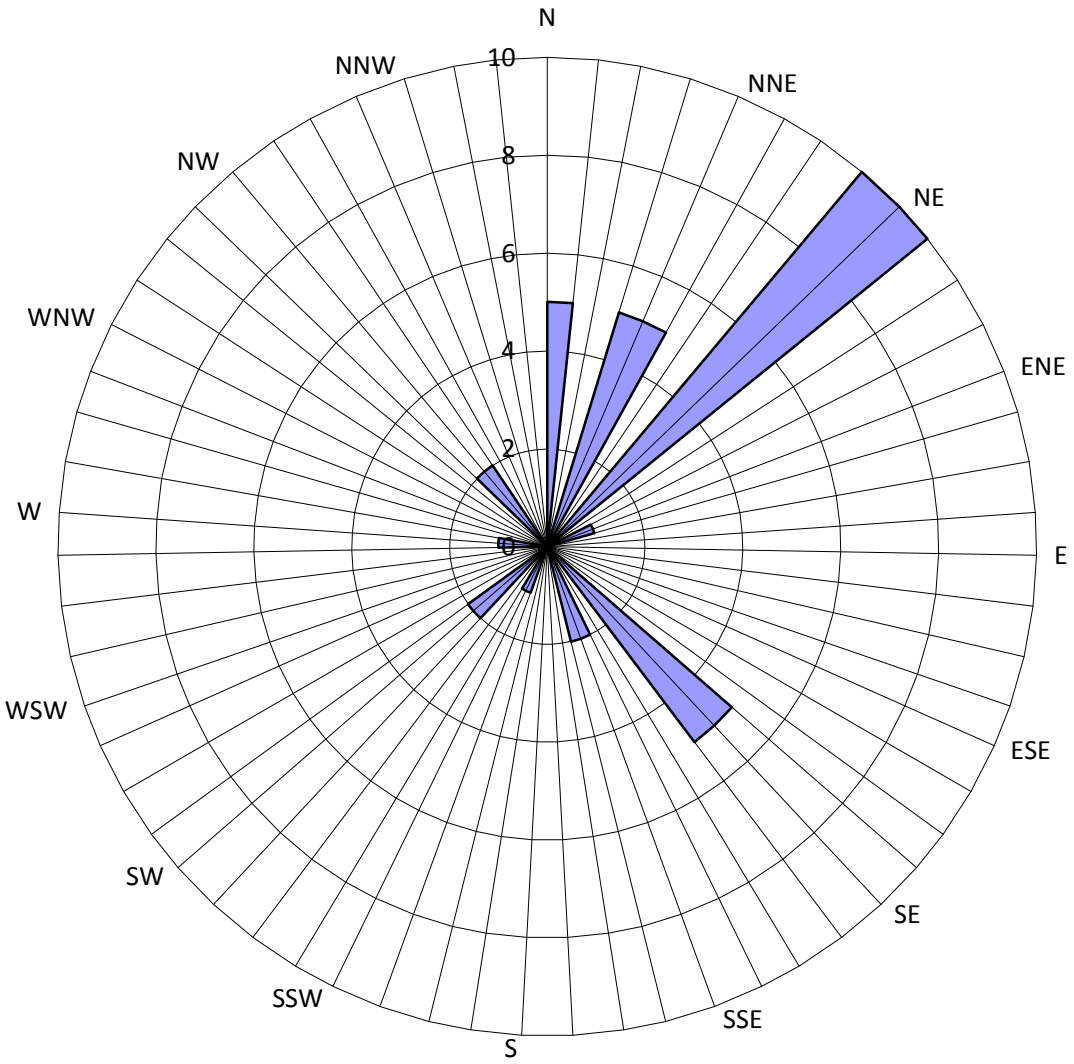
Explanation

V = Groundwater flow direction variable for reported event.

* = Multiple groundwater flow directions and gradients reported for date.

Number of Events with determined flow direction = 34

GROUNDWATER FLOW DIRECTION ROSE DIAGRAM
76 (FORMER BP) SERVICE STATION NO. 11117
7210 BANCROFT AVENUE
OAKLAND, CALIFORNIA



Legend
Concentric Circles represent
Quarterly Montoring Events

Third Quarter 2002 through
Third Quarter 2011

34 Data Points Shown

Groundwater Flow Direction

Appendix E

Certified Laboratory Analytical Report and Data Validation Form

Is the Data Set Valid?

(circle)

Yes / No

Preservation Temperature

(if Known): 1.0, 1.4 °C

Antea™ Group Laboratory Data Validation Sheet

Project/Client: 76 (Former BP) Service Station No. 11117

Project #: IW2611117

Date of Validation: 10/6/2011 **Date of Analysis:** 8/15-8/30/2011

Sample Date: 8/15/2011 **Completed By:** Stephen Mennyer

Signature:

Circle **Yes / No** (below)

Analytical Lab Used and Report # (if any): Pace No. 2586851

1.	Were the analyses the ones 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 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
9.	Were MS/ MSD (or SS/SSD) within the acceptable range of % recovery (i.e., approximately 80-120%, depending on the 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 (use additional sheet(s), as necessary:

1n - Analyte was detected in the associated method blank below the report limit. Amount detected is above one-half of the report limit.
4n - The amount of this analyte observed in this sample was greater than ten times the amount observed in the method blank. Therefore, the amount observed in the method blank is insignificant.
B - Analyte was detected in the associated method blank as well as in the sample.
D6 - The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.
M1 - Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
M2 - Matrix spike recovery was below QC limits due to sample dilution. Data acceptance based on laboratory control sample (LCS) recovery.
S5 - Surrogate recovery outside control limits due to matrix interferences (not confirmed by re-analysis).

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

August 31, 2011

Doug Umland
Antea USA
312 Piercy Rd
San Jose, CA 95138

RE: Project: 2611117
Pace Project No.: 258851

Dear Doug Umland:
Enclosed are the analytical results for sample(s) received by the laboratory on August 16, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards, where applicable, unless otherwise narrated in the body of the report.

Some analyses have been subcontracted outside of the Pace Network. The subcontracted laboratory report has been attached.

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
Dennis Dettloff, Antea USA
Jonathon Fillingame, Antea USA
Lia Holden, Antea USA
Dan Keltner, Antea USA
Josh Mahoney, Antea USA
Stephen Meninger, Antea USA
Tony Perini, Antea USA
Nicole Persaud, Antea USA
Don Pinkerton, Antea USA
Ed Weyrens, Antea USA

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

CERTIFICATIONS

Project: 2611117
Pace Project No.: 258851

Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414
A2LA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
EPA Region 8 Certification #: Pace
Florida/NELAP Certification #: E87605
Georgia Certification #: 959
Idaho Certification #: MN00064
Illinois Certification #: 200011
Iowa Certification #: 368
Kansas Certification #: E-10167
Louisiana Certification #: 03086
Louisiana Certification #: LA080009
Maine Certification #: 2007029
Maryland Certification #: 322
Michigan DEQ Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT CERT0092
Nevada Certification #: MN_00064
Nebraska Certification #: Pace
New Jersey Certification #: MN-002
New Mexico Certification #: Pace
New York Certification #: 11647
North Carolina Certification #: 530
North Dakota Certification #: R-036
North Dakota Certification #: R-036A
Ohio VAP Certification #: CL101
Oklahoma Certification #: D9921
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Tennessee Certification #: 02818
Texas Certification #: T104704192
Washington Certification #: C754
Wisconsin Certification #: 999407970

Washington Certification IDs

940 South Harney Street, Seattle, WA 98108
Alaska CS Certification #: UST-025
California Certification #: 01153CA
Florida/NELAP Certification #: E87617
Oregon Certification #: WA200007
Washington Certification #: C555

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

SAMPLE ANALYTE COUNT

Project: 2611117
Pace Project No.: 258851

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
258851001	**EX-1_20110831**	RSK 175	SK4	1	PASI-M
		EPA 5030B/8015B	CC	3	PASI-S
		EPA 6010	BGA	1	PASI-S
		EPA 5030B/8260	ERB	16	PASI-S
		SM 3500-Fe B#4	KMT	1	PASI-S
		SM 3500-Fe B#4	KMT	1	PASI-S
		SM 4500-NH3 D	KMT	1	PASI-S
		SM 4500-S-2 F	KMT	1	PASI-S
		SM 5210B	KMT	1	PASI-S
		EPA 300.0	CMS	2	PASI-S
		EPA 351.2	CMS	1	PASI-S
		EPA 353.2	CMS	2	PASI-S
		EPA 410.4	KMT	1	PASI-S
		SM 4500-P E	CMS	1	PASI-S
		SM 4500-P E	KMT	1	PASI-S
		SM 5310C	KMT	1	PASI-S
		SM 4500-NO2 B	KMT	1	PASI-S
258851002	**EX-2_20110831**	RSK 175	SK4	1	PASI-M
		EPA 5030B/8015B	CC	3	PASI-S
		EPA 6010	BGA	1	PASI-S
		EPA 5030B/8260	LPM	16	PASI-S
		SM 3500-Fe B#4	KMT	1	PASI-S
		SM 3500-Fe B#4	KMT	1	PASI-S
		SM 4500-NH3 D	KMT	1	PASI-S
		SM 4500-S-2 F	KMT	1	PASI-S
		SM 5210B	KMT	1	PASI-S
		EPA 300.0	CMS	2	PASI-S
		EPA 351.2	CMS	1	PASI-S
		EPA 353.2	CMS	2	PASI-S
		EPA 410.4	KMT	1	PASI-S
		SM 4500-P E	CMS	1	PASI-S
		SM 4500-P E	KMT	1	PASI-S
		SM 5310C	KMT	1	PASI-S
		SM 4500-NO2 B	KMT	1	PASI-S
258851003	**MW-10_20110831**	EPA 5030B/8015B	CC	3	PASI-S
		EPA 5030B/8260	LPM	16	PASI-S
258851004	**MW-11_20110831**	EPA 5030B/8015B	CC	3	PASI-S

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SAMPLE ANALYTE COUNT

Project: 2611117
Pace Project No.: 258851

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 5030B/8260	LPM	16	PASI-S
258851005	**MW-4_20110831**	EPA 5030B/8015B	CC	3	PASI-S
		EPA 5030B/8260	LPM	16	PASI-S
258851006	**MW-7_20110831**	EPA 5030B/8015B	CC	3	PASI-S
		EPA 5030B/8260	LNH	16	PASI-S
258851007	**TB1_20110831**	EPA 5030B/8015B	CC	3	PASI-S
		EPA 5030B/8260	LPM	16	PASI-S
258851008	**DPE-1_20110831**	RSK 175	SK4	1	PASI-M
		EPA 5030B/8015B	CC	3	PASI-S
		EPA 6010	BGA	1	PASI-S
		EPA 5030B/8260	LPM	16	PASI-S
		SM 3500-Fe B#4	KMT	1	PASI-S
		SM 3500-Fe B#4	KMT	1	PASI-S
		SM 4500-NH3 D	KMT	1	PASI-S
		SM 4500-S-2 F	KMT	1	PASI-S
		SM 5210B	KMT	1	PASI-S
		EPA 300.0	CMS	2	PASI-S
		EPA 351.2	CMS	1	PASI-S
		EPA 353.2	CMS	2	PASI-S
		EPA 410.4	KMT	1	PASI-S
		SM 4500-P E	CMS	1	PASI-S
		SM 4500-P E	KMT	1	PASI-S
		SM 5310C	KMT	1	PASI-S
		SM 4500-NO2 B	KMT	1	PASI-S
258851009	**DPE-4_20110831**	RSK 175	SK4	1	PASI-M
		EPA 5030B/8015B	CC	3	PASI-S
		EPA 6010	BGA	1	PASI-S
		EPA 5030B/8260	LPM	16	PASI-S
		SM 3500-Fe B#4	KMT	1	PASI-S
		SM 3500-Fe B#4	KMT	1	PASI-S
		SM 4500-NH3 D	KMT	1	PASI-S
		SM 4500-S-2 F	KMT	1	PASI-S
		SM 5210B	KMT	1	PASI-S
		EPA 300.0	CMS	2	PASI-S
		EPA 351.2	CMS	1	PASI-S
		EPA 353.2	CMS	2	PASI-S
		EPA 410.4	KMT	1	PASI-S

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SAMPLE ANALYTE COUNT

Project: 2611117
Pace Project No.: 258851

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 4500-P E	CMS	1	PASI-S
		SM 4500-P E	KMT	1	PASI-S
		SM 5310C	KMT	1	PASI-S
		SM 4500-NO2 B	KMT	1	PASI-S
258851010	**DPE-5_20110831**	RSK 175	SK4	1	PASI-M
		EPA 5030B/8015B	CC	3	PASI-S
		EPA 6010	BGA	1	PASI-S
		EPA 5030B/8260	LPM	16	PASI-S
		SM 3500-Fe B#4	KMT	1	PASI-S
		SM 3500-Fe B#4	KMT	1	PASI-S
		SM 4500-NH3 D	KMT	1	PASI-S
		SM 4500-S-2 F	KMT	1	PASI-S
		SM 5210B	KMT	1	PASI-S
		EPA 300.0	CMS	2	PASI-S
		EPA 351.2	CMS	1	PASI-S
		EPA 353.2	CMS	2	PASI-S
		EPA 410.4	KMT	1	PASI-S
		SM 4500-P E	CMS	1	PASI-S
		SM 4500-P E	KMT	1	PASI-S
		SM 5310C	KMT	1	PASI-S
		SM 4500-NO2 B	KMT	1	PASI-S

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HITS ONLY

Project: 2611117
Pace Project No.: 258851

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
258851001	**EX-1_20110831**					
RSK 175	Methane	5040	ug/L	10.0	08/17/11 22:39	
EPA 5030B/8015B	CA TPH-GRO (C5-C12)	1470	ug/L	250	08/26/11 22:31	
EPA 6010	Iron	1420	ug/L	100	08/29/11 13:19	
EPA 5030B/8260	tert-Amylmethyl ether	17.8	ug/L	5.0	08/20/11 20:43	
EPA 5030B/8260	Benzene	470	ug/L	5.0	08/20/11 20:43	
EPA 5030B/8260	tert-Butyl Alcohol	188	ug/L	50.0	08/20/11 20:43	
EPA 5030B/8260	1,2-Dichloroethane	13.3	ug/L	10.0	08/20/11 20:43	
EPA 5030B/8260	Ethylbenzene	472	ug/L	5.0	08/20/11 20:43	
EPA 5030B/8260	Methyl-tert-butyl ether	54.2	ug/L	5.0	08/20/11 20:43	
EPA 5030B/8260	Toluene	516	ug/L	5.0	08/20/11 20:43	4n
EPA 5030B/8260	Xylene (Total)	1270	ug/L	15.0	08/20/11 20:43	
SM 3500-Fe B#4	Iron, Ferrous	1400	ug/L	100	08/15/11 15:30	
SM 4500-NH3 D	Nitrogen, Ammonia	185	ug/L	100	08/24/11 12:40	
SM 4500-S-2 F	Sulfide	1080	ug/L	400	08/16/11 13:40	
SM 5210B	BOD, 5 day	8680	ug/L	2000	08/22/11 14:00	
EPA 300.0	Chloride	19100	ug/L	2000	08/18/11 21:09	
EPA 300.0	Sulfate	3830	ug/L	1000	08/18/11 07:21	
EPA 351.2	Nitrogen, Kjeldahl, Total	1120	ug/L	1000	08/23/11 16:08	
EPA 353.2	Nitrogen, Nitrate	52.9	ug/L	50.0	08/29/11 14:30	
EPA 353.2	Nitrogen, NO2 plus NO3	59.7	ug/L	50.0	08/29/11 14:30	
EPA 410.4	Chemical Oxygen Demand	29800	ug/L	5000	08/18/11 13:05	
SM 4500-P E	Phosphorus	107	ug/L	10.0	08/30/11 13:15	3n
SM 4500-P E	Orthophosphate as P	148	ug/L	10.0	08/16/11 17:28	
SM 5310C	Total Organic Carbon	11600	ug/L	1000	08/19/11 14:11	
258851002	**EX-2_20110831**					
RSK 175	Methane	208	ug/L	10.0	08/17/11 22:50	
EPA 6010	Iron	932	ug/L	100	08/29/11 13:30	
EPA 5030B/8260	Methyl-tert-butyl ether	3.6	ug/L	0.50	08/26/11 13:49	
SM 3500-Fe B#4	Iron, Ferric	932	ug/L	100	08/30/11 11:45	
SM 4500-S-2 F	Sulfide	760	ug/L	400	08/16/11 13:40	
SM 5210B	BOD, 5 day	579000	ug/L	2000	08/22/11 13:47	2n
EPA 300.0	Chloride	17100	ug/L	2000	08/26/11 15:35	
EPA 300.0	Sulfate	17600	ug/L	2000	08/26/11 15:35	
EPA 353.2	Nitrogen, Nitrate	12100	ug/L	500	08/29/11 15:08	
EPA 353.2	Nitrogen, NO2 plus NO3	12100	ug/L	500	08/29/11 15:08	
EPA 410.4	Chemical Oxygen Demand	7420	ug/L	5000	08/18/11 13:05	
SM 4500-P E	Phosphorus	106	ug/L	10.0	08/30/11 13:15	3n
SM 4500-P E	Orthophosphate as P	162	ug/L	10.0	08/16/11 17:28	
SM 5310C	Total Organic Carbon	2010	ug/L	1000	08/19/11 14:11	
258851003	**MW-10_20110831**					
EPA 5030B/8260	tert-Butyl Alcohol	13.1	ug/L	5.0	08/26/11 14:06	
EPA 5030B/8260	Methyl-tert-butyl ether	13.8	ug/L	0.50	08/26/11 14:06	
258851004	**MW-11_20110831**					
EPA 5030B/8015B	CA TPH-GRO (C5-C12)	1530	ug/L	50.0	08/26/11 21:22	
EPA 5030B/8260	Ethylbenzene	9.2	ug/L	0.50	08/26/11 14:23	
EPA 5030B/8260	Toluene	0.80	ug/L	0.50	08/26/11 14:23	

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Project: 2611117
Pace Project No.: 258851

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
258851004	**MW-11_20110831**					
EPA 5030B/8260	Xylene (Total)	8.0	ug/L	1.5	08/26/11 14:23	
258851005	**MW-4_20110831**					
EPA 5030B/8015B	CA TPH-GRO (C5-C12)	87600	ug/L	5000	08/26/11 23:42	
EPA 5030B/8260	Benzene	3430	ug/L	12.5	08/26/11 18:02	
EPA 5030B/8260	tert-Butyl Alcohol	3410	ug/L	125	08/26/11 18:02	
EPA 5030B/8260	Ethylbenzene	2880	ug/L	12.5	08/26/11 18:02	
EPA 5030B/8260	Methyl-tert-butyl ether	317	ug/L	12.5	08/26/11 18:02	
EPA 5030B/8260	Toluene	280	ug/L	12.5	08/26/11 18:02	
EPA 5030B/8260	Xylene (Total)	8500	ug/L	37.5	08/26/11 18:02	
258851006	**MW-7_20110831**					
EPA 5030B/8260	tert-Butyl Alcohol	13.1	ug/L	5.0	08/22/11 18:46	
EPA 5030B/8260	Methyl-tert-butyl ether	14.8	ug/L	0.50	08/22/11 18:46	
258851008	**DPE-1_20110831**					
RSK 175	Methane	1500	ug/L	10.0	08/17/11 23:01	
EPA 5030B/8015B	CA TPH-GRO (C5-C12)	571	ug/L	50.0	08/25/11 05:17	
EPA 6010	Iron	11100	ug/L	100	08/29/11 13:33	
EPA 5030B/8260	Benzene	16.4	ug/L	0.50	08/26/11 14:40	
EPA 5030B/8260	tert-Butyl Alcohol	140	ug/L	5.0	08/26/11 14:40	
EPA 5030B/8260	Ethylbenzene	6.3	ug/L	0.50	08/26/11 14:40	
EPA 5030B/8260	Methyl-tert-butyl ether	1.1	ug/L	0.50	08/26/11 14:40	
EPA 5030B/8260	Toluene	5.4	ug/L	0.50	08/26/11 14:40	
EPA 5030B/8260	Xylene (Total)	12.0	ug/L	1.5	08/26/11 14:40	
SM 3500-Fe B#4	Iron, Ferric	9490	ug/L	100	08/30/11 11:45	
SM 3500-Fe B#4	Iron, Ferrous	1600	ug/L	100	08/15/11 13:55	
SM 4500-S-2 F	Sulfide	1040	ug/L	400	08/16/11 13:40	
SM 5210B	BOD, 5 day	4560	ug/L	2000	08/22/11 13:53	
EPA 300.0	Chloride	25200	ug/L	5000	08/26/11 16:27	
EPA 300.0	Sulfate	14300	ug/L	5000	08/26/11 16:27	
EPA 353.2	Nitrogen, Nitrate	108	ug/L	50.0	08/29/11 14:33	
EPA 353.2	Nitrogen, NO2 plus NO3	121	ug/L	50.0	08/29/11 14:33	
EPA 410.4	Chemical Oxygen Demand	27900	ug/L	5000	08/18/11 13:05	
SM 4500-P E	Phosphorus	236	ug/L	10.0	08/30/11 13:15	
SM 4500-P E	Orthophosphate as P	219	ug/L	10.0	08/16/11 17:28	
SM 5310C	Total Organic Carbon	3640	ug/L	1000	08/19/11 14:11	
SM 4500-NO2 B	Nitrite as N	13.1	ug/L	10.0	08/16/11 16:25	
258851009	**DPE-4_20110831**					
RSK 175	Methane	16100	ug/L	10.0	08/17/11 23:11	E
EPA 5030B/8015B	CA TPH-GRO (C5-C12)	57600	ug/L	5000	08/27/11 00:05	
EPA 6010	Iron	10800	ug/L	100	08/29/11 13:37	
EPA 5030B/8260	tert-Amylmethyl ether	132	ug/L	0.50	08/23/11 01:28	
EPA 5030B/8260	Benzene	5920	ug/L	25.0	08/26/11 18:21	
EPA 5030B/8260	tert-Butyl Alcohol	6920	ug/L	250	08/26/11 18:21	
EPA 5030B/8260	Ethylbenzene	3830	ug/L	25.0	08/26/11 18:21	
EPA 5030B/8260	Ethyl-tert-butyl ether	12.2	ug/L	0.50	08/23/11 01:28	
EPA 5030B/8260	Methyl-tert-butyl ether	5560	ug/L	25.0	08/26/11 18:21	

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Project: 2611117
Pace Project No.: 258851

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
258851009	**DPE-4_20110831**					
EPA 5030B/8260	Toluene	7240	ug/L	25.0	08/26/11 18:21	
EPA 5030B/8260	Xylene (Total)	12100	ug/L	75.0	08/26/11 18:21	
SM 3500-Fe B#4	Iron, Ferric	3230	ug/L	100	08/30/11 11:45	
SM 3500-Fe B#4	Iron, Ferrous	7600	ug/L	100	08/15/11 15:05	
SM 4500-S-2 F	Sulfide	1080	ug/L	400	08/16/11 13:40	
SM 5210B	BOD, 5 day	55000	ug/L	2000	08/22/11 13:58	
EPA 300.0	Chloride	26400	ug/L	5000	08/26/11 16:44	
EPA 351.2	Nitrogen, Kjeldahl, Total	1770	ug/L	1000	08/23/11 16:16	
EPA 353.2	Nitrogen, NO2 plus NO3	62.1	ug/L	50.0	08/29/11 14:35	
EPA 410.4	Chemical Oxygen Demand	113000	ug/L	20000	08/26/11 13:30	
SM 4500-P E	Phosphorus	732	ug/L	10.0	08/30/11 13:15	
SM 4500-P E	Orthophosphate as P	502	ug/L	10.0	08/16/11 17:28	
SM 5310C	Total Organic Carbon	14000	ug/L	1000	08/19/11 14:11	
SM 4500-NO2 B	Nitrite as N	39.6	ug/L	10.0	08/16/11 16:25	
258851010	**DPE-5_20110831**					
RSK 175	Methane	13900	ug/L	10.0	08/17/11 23:22	E
EPA 5030B/8015B	CA TPH-GRO (C5-C12)	15900	ug/L	2500	08/26/11 22:55	
EPA 6010	Iron	20500	ug/L	100	08/29/11 13:40	
EPA 5030B/8260	tert-Amylmethyl ether	10.0	ug/L	0.50	08/23/11 01:45	
EPA 5030B/8260	Benzene	2420	ug/L	12.5	08/26/11 17:42	
EPA 5030B/8260	tert-Butyl Alcohol	2510	ug/L	125	08/26/11 17:42	
EPA 5030B/8260	Ethylbenzene	1340	ug/L	12.5	08/26/11 17:42	
EPA 5030B/8260	Ethyl-tert-butyl ether	1.2	ug/L	0.50	08/23/11 01:45	
EPA 5030B/8260	Methyl-tert-butyl ether	773	ug/L	12.5	08/26/11 17:42	
EPA 5030B/8260	Toluene	127	ug/L	12.5	08/26/11 17:42	
EPA 5030B/8260	Xylene (Total)	1650	ug/L	37.5	08/26/11 17:42	
SM 3500-Fe B#4	Iron, Ferric	14000	ug/L	100	08/30/11 11:45	
SM 3500-Fe B#4	Iron, Ferrous	6500	ug/L	100	08/15/11 14:40	
SM 4500-S-2 F	Sulfide	1600	ug/L	400	08/16/11 13:40	
SM 5210B	BOD, 5 day	21200	ug/L	2000	08/22/11 13:55	
EPA 300.0	Chloride	32100	ug/L	5000	08/26/11 17:01	
EPA 351.2	Nitrogen, Kjeldahl, Total	1320	ug/L	1000	08/23/11 16:17	
EPA 410.4	Chemical Oxygen Demand	53900	ug/L	5000	08/18/11 13:05	
SM 4500-P E	Phosphorus	134	ug/L	10.0	08/30/11 13:15	3n
SM 4500-P E	Orthophosphate as P	240	ug/L	10.0	08/16/11 17:28	
SM 5310C	Total Organic Carbon	9360	ug/L	1000	08/19/11 14:11	
SM 4500-NO2 B	Nitrite as N	28.8	ug/L	10.0	08/16/11 16:25	

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ANALYTICAL RESULTS

Project: 2611117
Pace Project No.: 258851

Sample: EX-1_20110831 **Lab ID: 258851001** Collected: 08/15/11 15:30 Received: 08/16/11 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175							
Methane	**5040**	ug/L	10.0	1		08/17/11 22:39	74-82-8	
Gasoline Range Organics	Analytical Method: EPA 5030B/8015B							
CA TPH-GRO (C5-C12)	**1470**	ug/L	250	5		08/26/11 22:31		
4-Bromofluorobenzene (S)	84	%	47-140	5		08/26/11 22:31	460-00-4	
a,a,a-Trifluorotoluene (S)	101	%	69-142	5		08/26/11 22:31	98-08-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron	**1420**	ug/L	100	1	08/26/11 08:44	08/29/11 13:19	7439-89-6	
8260 MSV	Analytical Method: EPA 5030B/8260							
tert-Amylmethyl ether	**17.8**	ug/L	5.0	10		08/20/11 20:43	994-05-8	
Benzene	**470**	ug/L	5.0	10		08/20/11 20:43	71-43-2	
tert-Butyl Alcohol	**188**	ug/L	50.0	10		08/20/11 20:43	75-65-0	
1,2-Dibromoethane (EDB)	ND	ug/L	10.0	10		08/20/11 20:43	106-93-4	
1,2-Dichloroethane	**13.3**	ug/L	10.0	10		08/20/11 20:43	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	10		08/20/11 20:43	108-20-3	
Ethanol	ND	ug/L	2500	10		08/20/11 20:43	64-17-5	
Ethylbenzene	**472**	ug/L	5.0	10		08/20/11 20:43	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	5.0	10		08/20/11 20:43	637-92-3	
Methyl-tert-butyl ether	**54.2**	ug/L	5.0	10		08/20/11 20:43	1634-04-4	
Toluene	**516**	ug/L	5.0	10		08/20/11 20:43	108-88-3	4n
Xylene (Total)	**1270**	ug/L	15.0	10		08/20/11 20:43	1330-20-7	
4-Bromofluorobenzene (S)	114	%	79-121	10		08/20/11 20:43	460-00-4	D4
Dibromofluoromethane (S)	98	%	81-119	10		08/20/11 20:43	1868-53-7	
1,2-Dichloroethane-d4 (S)	108	%	72-127	10		08/20/11 20:43	17060-07-0	
Toluene-d8 (S)	105	%	77-120	10		08/20/11 20:43	2037-26-5	
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4							
Iron, Ferric	ND	ug/L	100	1		08/30/11 11:45	7439-89-6	
Iron, Ferrous	Analytical Method: SM 3500-Fe B#4							
Iron, Ferrous	**1400**	ug/L	100	1		08/15/11 15:30		
4500NH3D Nitrogen, Ammonia	Analytical Method: SM 4500-NH3 D							
Nitrogen, Ammonia	**185**	ug/L	100	1		08/24/11 12:40	7664-41-7	
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S-2 F							
Sulfide	**1080**	ug/L	400	1		08/16/11 13:40	18496-25-8	
5210B BOD, 5 day	Analytical Method: SM 5210B Preparation Method: SM 5210B							
BOD, 5 day	**8680**	ug/L	2000	1	08/17/11 09:45	08/22/11 14:00		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**19100**	ug/L	2000	2		08/18/11 21:09	16887-00-6	

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ANALYTICAL RESULTS

Project: 2611117
Pace Project No.: 258851

Sample: EX-1_20110831 **Lab ID: 258851001** Collected: 08/15/11 15:30 Received: 08/16/11 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	**3830**	ug/L	1000	1		08/18/11 07:21	14808-79-8	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	**1120**	ug/L	1000	1		08/23/11 16:08	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	**52.9**	ug/L	50.0	1		08/29/11 14:30		
Nitrogen, NO2 plus NO3	**59.7**	ug/L	50.0	1		08/29/11 14:30		
410.4 COD	Analytical Method: EPA 410.4							
Chemical Oxygen Demand	**29800**	ug/L	5000	1		08/18/11 13:05		
4500PE Total Phosphorus	Analytical Method: SM 4500-P E							
Phosphorus	**107**	ug/L	10.0	1		08/30/11 13:15	7723-14-0	3n
4500PE Ortho Phosphorus	Analytical Method: SM 4500-P E							
Orthophosphate as P	**148**	ug/L	10.0	1		08/16/11 17:28		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**11600**	ug/L	1000	1		08/19/11 14:11	7440-44-0	
SM4500NO2-B, Nitrite, unpres	Analytical Method: SM 4500-NO2 B							
Nitrite as N	ND	ug/L	10.0	1		08/16/11 16:25	14797-65-0	

Sample: EX-2_20110831 **Lab ID: 258851002** Collected: 08/15/11 10:15 Received: 08/16/11 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175							
Methane	**208**	ug/L	10.0	1		08/17/11 22:50	74-82-8	
Gasoline Range Organics	Analytical Method: EPA 5030B/8015B							
CA TPH-GRO (C5-C12)	ND	ug/L	50.0	1		08/25/11 00:59		
4-Bromofluorobenzene (S)	87	%	47-140	1		08/25/11 00:59	460-00-4	
a,a,a-Trifluorotoluene (S)	100	%	69-142	1		08/25/11 00:59	98-08-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron	**932**	ug/L	100	1	08/26/11 08:44	08/29/11 13:30	7439-89-6	
8260 MSV	Analytical Method: EPA 5030B/8260							
tert-Amylmethyl ether	ND	ug/L	0.50	1		08/26/11 13:49	994-05-8	
Benzene	ND	ug/L	0.50	1		08/26/11 13:49	71-43-2	
tert-Butyl Alcohol	ND	ug/L	5.0	1		08/26/11 13:49	75-65-0	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		08/26/11 13:49	106-93-4	

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ANALYTICAL RESULTS

Project: 2611117
Pace Project No.: 258851

Sample: EX-2_20110831 **Lab ID: 258851002** Collected: 08/15/11 10:15 Received: 08/16/11 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
1,2-Dichloroethane	ND	ug/L	1.0	1		08/26/11 13:49	107-06-2	
Diisopropyl ether	ND	ug/L	0.50	1		08/26/11 13:49	108-20-3	
Ethanol	ND	ug/L	250	1		08/26/11 13:49	64-17-5	
Ethylbenzene	ND	ug/L	0.50	1		08/26/11 13:49	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	0.50	1		08/26/11 13:49	637-92-3	
Methyl-tert-butyl ether	**3.6**	ug/L	0.50	1		08/26/11 13:49	1634-04-4	
Toluene	ND	ug/L	0.50	1		08/26/11 13:49	108-88-3	
Xylene (Total)	ND	ug/L	1.5	1		08/26/11 13:49	1330-20-7	
4-Bromofluorobenzene (S)	113	%	79-121	1		08/26/11 13:49	460-00-4	
Dibromofluoromethane (S)	98	%	81-119	1		08/26/11 13:49	1868-53-7	
1,2-Dichloroethane-d4 (S)	108	%	72-127	1		08/26/11 13:49	17060-07-0	
Toluene-d8 (S)	104	%	77-120	1		08/26/11 13:49	2037-26-5	
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4							
Iron, Ferric	**932**	ug/L	100	1		08/30/11 11:45	7439-89-6	
Iron, Ferrous	Analytical Method: SM 3500-Fe B#4							
Iron, Ferrous	ND	ug/L	100	1		08/15/11 10:15		
4500NH3D Nitrogen, Ammonia	Analytical Method: SM 4500-NH3 D							
Nitrogen, Ammonia	ND	ug/L	100	1		08/24/11 12:40	7664-41-7	
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S-2 F							
Sulfide	**760**	ug/L	400	1		08/16/11 13:40	18496-25-8	
5210B BOD, 5 day	Analytical Method: SM 5210B Preparation Method: SM 5210B							
BOD, 5 day	**579000**	ug/L	2000	1	08/17/11 09:45	08/22/11 13:47		2n
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**17100**	ug/L	2000	2		08/26/11 15:35	16887-00-6	
Sulfate	**17600**	ug/L	2000	2		08/26/11 15:35	14808-79-8	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	ND	ug/L	1000	1		08/23/11 16:09	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	**12100**	ug/L	500	10		08/29/11 15:08		
Nitrogen, NO2 plus NO3	**12100**	ug/L	500	10		08/29/11 15:08		
410.4 COD	Analytical Method: EPA 410.4							
Chemical Oxygen Demand	**7420**	ug/L	5000	1		08/18/11 13:05		
4500PE Total Phosphorus	Analytical Method: SM 4500-P E							
Phosphorus	**106**	ug/L	10.0	1		08/30/11 13:15	7723-14-0	3n

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ANALYTICAL RESULTS

Project: 2611117
Pace Project No.: 258851

Sample: EX-2_20110831 **Lab ID: 258851002** Collected: 08/15/11 10:15 Received: 08/16/11 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
4500PE Ortho Phosphorus	Analytical Method: SM 4500-P E							
Orthophosphate as P	**162**	ug/L	10.0	1		08/16/11 17:28		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**2010**	ug/L	1000	1		08/19/11 14:11	7440-44-0	
SM4500NO2-B, Nitrite, unpres	Analytical Method: SM 4500-NO2 B							
Nitrite as N	ND	ug/L	10.0	1		08/16/11 16:25	14797-65-0	

Sample: MW-10_20110831 **Lab ID: 258851003** Collected: 08/15/11 11:20 Received: 08/16/11 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Gasoline Range Organics	Analytical Method: EPA 5030B/8015B							
CA TPH-GRO (C5-C12)	ND	ug/L	50.0	1		08/25/11 01:46		
4-Bromofluorobenzene (S)	88	%	47-140	1		08/25/11 01:46	460-00-4	
a,a,a-Trifluorotoluene (S)	101	%	69-142	1		08/25/11 01:46	98-08-8	
8260 MSV	Analytical Method: EPA 5030B/8260							
tert-Amylmethyl ether	ND	ug/L	0.50	1		08/26/11 14:06	994-05-8	
Benzene	ND	ug/L	0.50	1		08/26/11 14:06	71-43-2	
tert-Butyl Alcohol	**13.1**	ug/L	5.0	1		08/26/11 14:06	75-65-0	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		08/26/11 14:06	106-93-4	
1,2-Dichloroethane	ND	ug/L	1.0	1		08/26/11 14:06	107-06-2	
Diisopropyl ether	ND	ug/L	0.50	1		08/26/11 14:06	108-20-3	
Ethanol	ND	ug/L	250	1		08/26/11 14:06	64-17-5	
Ethylbenzene	ND	ug/L	0.50	1		08/26/11 14:06	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	0.50	1		08/26/11 14:06	637-92-3	
Methyl-tert-butyl ether	**13.8**	ug/L	0.50	1		08/26/11 14:06	1634-04-4	
Toluene	ND	ug/L	0.50	1		08/26/11 14:06	108-88-3	
Xylene (Total)	ND	ug/L	1.5	1		08/26/11 14:06	1330-20-7	
4-Bromofluorobenzene (S)	116	%	79-121	1		08/26/11 14:06	460-00-4	
Dibromofluoromethane (S)	100	%	81-119	1		08/26/11 14:06	1868-53-7	
1,2-Dichloroethane-d4 (S)	109	%	72-127	1		08/26/11 14:06	17060-07-0	
Toluene-d8 (S)	106	%	77-120	1		08/26/11 14:06	2037-26-5	

Sample: MW-11_20110831 **Lab ID: 258851004** Collected: 08/15/11 12:15 Received: 08/16/11 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Gasoline Range Organics	Analytical Method: EPA 5030B/8015B							
CA TPH-GRO (C5-C12)	**1530**	ug/L	50.0	1		08/26/11 21:22		
4-Bromofluorobenzene (S)	80	%	47-140	1		08/26/11 21:22	460-00-4	
a,a,a-Trifluorotoluene (S)	91	%	69-142	1		08/26/11 21:22	98-08-8	

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ANALYTICAL RESULTS

Project: 2611117
Pace Project No.: 258851

Sample: MW-11_20110831 **Lab ID: 258851004** Collected: 08/15/11 12:15 Received: 08/16/11 08:55 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		08/26/11 14:23	994-05-8	
Benzene	ND	ug/L	0.50	1		08/26/11 14:23	71-43-2	
tert-Butyl Alcohol	ND	ug/L	5.0	1		08/26/11 14:23	75-65-0	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		08/26/11 14:23	106-93-4	
1,2-Dichloroethane	ND	ug/L	1.0	1		08/26/11 14:23	107-06-2	
Diisopropyl ether	ND	ug/L	0.50	1		08/26/11 14:23	108-20-3	
Ethanol	ND	ug/L	250	1		08/26/11 14:23	64-17-5	
Ethylbenzene	**9.2**	ug/L	0.50	1		08/26/11 14:23	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	0.50	1		08/26/11 14:23	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		08/26/11 14:23	1634-04-4	
Toluene	**0.80**	ug/L	0.50	1		08/26/11 14:23	108-88-3	
Xylene (Total)	**8.0**	ug/L	1.5	1		08/26/11 14:23	1330-20-7	
4-Bromofluorobenzene (S)	114	%	79-121	1		08/26/11 14:23	460-00-4	
Dibromofluoromethane (S)	101	%	81-119	1		08/26/11 14:23	1868-53-7	
1,2-Dichloroethane-d4 (S)	108	%	72-127	1		08/26/11 14:23	17060-07-0	
Toluene-d8 (S)	106	%	77-120	1		08/26/11 14:23	2037-26-5	

Sample: MW-4_20110831 **Lab ID: 258851005** Collected: 08/15/11 12:40 Received: 08/16/11 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Gasoline Range Organics	Analytical Method: EPA 5030B/8015B							
CA TPH-GRO (C5-C12)	**87600**	ug/L	5000	100		08/26/11 23:42		
4-Bromofluorobenzene (S)	99	%	47-140	100		08/26/11 23:42	460-00-4	
a,a,a-Trifluorotoluene (S)	99	%	69-142	100		08/26/11 23:42	98-08-8	
8260 MSV	Analytical Method: EPA 5030B/8260							
tert-Amylmethyl ether	ND	ug/L	12.5	25		08/26/11 18:02	994-05-8	
Benzene	**3430**	ug/L	12.5	25		08/26/11 18:02	71-43-2	
tert-Butyl Alcohol	**3410**	ug/L	125	25		08/26/11 18:02	75-65-0	
1,2-Dibromoethane (EDB)	ND	ug/L	25.0	25		08/26/11 18:02	106-93-4	
1,2-Dichloroethane	ND	ug/L	25.0	25		08/26/11 18:02	107-06-2	
Diisopropyl ether	ND	ug/L	12.5	25		08/26/11 18:02	108-20-3	
Ethanol	ND	ug/L	6250	25		08/26/11 18:02	64-17-5	
Ethylbenzene	**2880**	ug/L	12.5	25		08/26/11 18:02	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	12.5	25		08/26/11 18:02	637-92-3	
Methyl-tert-butyl ether	**317**	ug/L	12.5	25		08/26/11 18:02	1634-04-4	
Toluene	**280**	ug/L	12.5	25		08/26/11 18:02	108-88-3	
Xylene (Total)	**8500**	ug/L	37.5	25		08/26/11 18:02	1330-20-7	
4-Bromofluorobenzene (S)	115	%	79-121	25		08/26/11 18:02	460-00-4	D4
Dibromofluoromethane (S)	103	%	81-119	25		08/26/11 18:02	1868-53-7	
1,2-Dichloroethane-d4 (S)	121	%	72-127	25		08/26/11 18:02	17060-07-0	
Toluene-d8 (S)	106	%	77-120	25		08/26/11 18:02	2037-26-5	

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ANALYTICAL RESULTS

Project: 2611117
Pace Project No.: 258851

Sample: MW-7_20110831 **Lab ID: 258851006** Collected: 08/15/11 10:35 Received: 08/16/11 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Gasoline Range Organics	Analytical Method: EPA 5030B/8015B							
CA TPH-GRO (C5-C12)	ND	ug/L	50.0	1		08/25/11 02:09		
4-Bromofluorobenzene (S)	88	%	47-140	1		08/25/11 02:09	460-00-4	
a,a,a-Trifluorotoluene (S)	101	%	69-142	1		08/25/11 02:09	98-08-8	
8260 MSV	Analytical Method: EPA 5030B/8260							
tert-Amylmethyl ether	ND	ug/L	0.50	1		08/22/11 18:46	994-05-8	
Benzene	ND	ug/L	0.50	1		08/22/11 18:46	71-43-2	
tert-Butyl Alcohol	**13.1**	ug/L	5.0	1		08/22/11 18:46	75-65-0	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		08/22/11 18:46	106-93-4	
1,2-Dichloroethane	ND	ug/L	1.0	1		08/22/11 18:46	107-06-2	
Diisopropyl ether	ND	ug/L	0.50	1		08/22/11 18:46	108-20-3	
Ethanol	ND	ug/L	250	1		08/22/11 18:46	64-17-5	
Ethylbenzene	ND	ug/L	0.50	1		08/22/11 18:46	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	0.50	1		08/22/11 18:46	637-92-3	
Methyl-tert-butyl ether	**14.8**	ug/L	0.50	1		08/22/11 18:46	1634-04-4	
Toluene	ND	ug/L	0.50	1		08/22/11 18:46	108-88-3	
Xylene (Total)	ND	ug/L	1.5	1		08/22/11 18:46	1330-20-7	
4-Bromofluorobenzene (S)	115	%	79-121	1		08/22/11 18:46	460-00-4	
Dibromofluoromethane (S)	102	%	81-119	1		08/22/11 18:46	1868-53-7	
1,2-Dichloroethane-d4 (S)	110	%	72-127	1		08/22/11 18:46	17060-07-0	
Toluene-d8 (S)	103	%	77-120	1		08/22/11 18:46	2037-26-5	

Sample: TB1_20110831 **Lab ID: 258851007** Collected: 08/15/11 08:00 Received: 08/16/11 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Gasoline Range Organics	Analytical Method: EPA 5030B/8015B							
CA TPH-GRO (C5-C12)	ND	ug/L	50.0	1		08/24/11 23:50		
4-Bromofluorobenzene (S)	85	%	47-140	1		08/24/11 23:50	460-00-4	
a,a,a-Trifluorotoluene (S)	99	%	69-142	1		08/24/11 23:50	98-08-8	
8260 MSV	Analytical Method: EPA 5030B/8260							
tert-Amylmethyl ether	ND	ug/L	0.50	1		08/26/11 10:24	994-05-8	
Benzene	ND	ug/L	0.50	1		08/26/11 10:24	71-43-2	
tert-Butyl Alcohol	ND	ug/L	5.0	1		08/26/11 10:24	75-65-0	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		08/26/11 10:24	106-93-4	
1,2-Dichloroethane	ND	ug/L	1.0	1		08/26/11 10:24	107-06-2	
Diisopropyl ether	ND	ug/L	0.50	1		08/26/11 10:24	108-20-3	
Ethanol	ND	ug/L	250	1		08/26/11 10:24	64-17-5	
Ethylbenzene	ND	ug/L	0.50	1		08/26/11 10:24	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	0.50	1		08/26/11 10:24	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		08/26/11 10:24	1634-04-4	
Toluene	ND	ug/L	0.50	1		08/26/11 10:24	108-88-3	
Xylene (Total)	ND	ug/L	1.5	1		08/26/11 10:24	1330-20-7	
4-Bromofluorobenzene (S)	116	%	79-121	1		08/26/11 10:24	460-00-4	

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ANALYTICAL RESULTS

Project: 2611117
Pace Project No.: 258851

Sample: TB1_20110831 **Lab ID: 258851007** Collected: 08/15/11 08:00 Received: 08/16/11 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Dibromofluoromethane (S)	100	%	81-119	1		08/26/11 10:24	1868-53-7	
1,2-Dichloroethane-d4 (S)	109	%	72-127	1		08/26/11 10:24	17060-07-0	
Toluene-d8 (S)	105	%	77-120	1		08/26/11 10:24	2037-26-5	

Sample: DPE-1_20110831 **Lab ID: 258851008** Collected: 08/15/11 13:55 Received: 08/16/11 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175							
Methane	**1500**	ug/L	10.0	1		08/17/11 23:01	74-82-8	
Gasoline Range Organics	Analytical Method: EPA 5030B/8015B							
CA TPH-GRO (C5-C12)	**571**	ug/L	50.0	1		08/25/11 05:17		
4-Bromofluorobenzene (S)	100	%	47-140	1		08/25/11 05:17	460-00-4	
a,a,a-Trifluorotoluene (S)	112	%	69-142	1		08/25/11 05:17	98-08-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron	**11100**	ug/L	100	1	08/26/11 08:44	08/29/11 13:33	7439-89-6	
8260 MSV	Analytical Method: EPA 5030B/8260							
tert-Amylmethyl ether	ND	ug/L	0.50	1		08/26/11 14:40	994-05-8	
Benzene	**16.4**	ug/L	0.50	1		08/26/11 14:40	71-43-2	
tert-Butyl Alcohol	**140**	ug/L	5.0	1		08/26/11 14:40	75-65-0	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		08/26/11 14:40	106-93-4	
1,2-Dichloroethane	ND	ug/L	1.0	1		08/26/11 14:40	107-06-2	
Diisopropyl ether	ND	ug/L	0.50	1		08/26/11 14:40	108-20-3	
Ethanol	ND	ug/L	250	1		08/26/11 14:40	64-17-5	
Ethylbenzene	**6.3**	ug/L	0.50	1		08/26/11 14:40	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	0.50	1		08/26/11 14:40	637-92-3	
Methyl-tert-butyl ether	**1.1**	ug/L	0.50	1		08/26/11 14:40	1634-04-4	
Toluene	**5.4**	ug/L	0.50	1		08/26/11 14:40	108-88-3	
Xylene (Total)	**12.0**	ug/L	1.5	1		08/26/11 14:40	1330-20-7	
4-Bromofluorobenzene (S)	116	%	79-121	1		08/26/11 14:40	460-00-4	
Dibromofluoromethane (S)	102	%	81-119	1		08/26/11 14:40	1868-53-7	
1,2-Dichloroethane-d4 (S)	109	%	72-127	1		08/26/11 14:40	17060-07-0	
Toluene-d8 (S)	107	%	77-120	1		08/26/11 14:40	2037-26-5	
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4							
Iron, Ferric	**9490**	ug/L	100	1		08/30/11 11:45	7439-89-6	
Iron, Ferrous	Analytical Method: SM 3500-Fe B#4							
Iron, Ferrous	**1600**	ug/L	100	1		08/15/11 13:55		
4500NH3D Nitrogen, Ammonia	Analytical Method: SM 4500-NH3 D							
Nitrogen, Ammonia	ND	ug/L	100	1		08/24/11 12:40	7664-41-7	

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ANALYTICAL RESULTS

Project: 2611117
Pace Project No.: 258851

Sample: DPE-1_20110831 **Lab ID: 258851008** Collected: 08/15/11 13:55 Received: 08/16/11 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S-2 F							
Sulfide	**1040**	ug/L	400	1		08/16/11 13:40	18496-25-8	
5210B BOD, 5 day	Analytical Method: SM 5210B Preparation Method: SM 5210B							
BOD, 5 day	**4560**	ug/L	2000	1	08/17/11 09:45	08/22/11 13:53		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**25200**	ug/L	5000	5		08/26/11 16:27	16887-00-6	
Sulfate	**14300**	ug/L	5000	5		08/26/11 16:27	14808-79-8	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	ND	ug/L	1000	1		08/23/11 16:15	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	**108**	ug/L	50.0	1		08/29/11 14:33		
Nitrogen, NO2 plus NO3	**121**	ug/L	50.0	1		08/29/11 14:33		
410.4 COD	Analytical Method: EPA 410.4							
Chemical Oxygen Demand	**27900**	ug/L	5000	1		08/18/11 13:05		
4500PE Total Phosphorus	Analytical Method: SM 4500-P E							
Phosphorus	**236**	ug/L	10.0	1		08/30/11 13:15	7723-14-0	
4500PE Ortho Phosphorus	Analytical Method: SM 4500-P E							
Orthophosphate as P	**219**	ug/L	10.0	1		08/16/11 17:28		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**3640**	ug/L	1000	1		08/19/11 14:11	7440-44-0	
SM4500NO2-B, Nitrite, unpres	Analytical Method: SM 4500-NO2 B							
Nitrite as N	**13.1**	ug/L	10.0	1		08/16/11 16:25	14797-65-0	

Sample: DPE-4_20110831 **Lab ID: 258851009** Collected: 08/15/11 15:05 Received: 08/16/11 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175							
Methane	**16100**	ug/L	10.0	1		08/17/11 23:11	74-82-8	E
Gasoline Range Organics	Analytical Method: EPA 5030B/8015B							
CA TPH-GRO (C5-C12)	**57600**	ug/L	5000	100		08/27/11 00:05		
4-Bromofluorobenzene (S)	90	%	47-140	100		08/27/11 00:05	460-00-4	
a,a,a-Trifluorotoluene (S)	99	%	69-142	100		08/27/11 00:05	98-08-8	

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ANALYTICAL RESULTS

Project: 2611117
Pace Project No.: 258851

Sample: DPE-4_20110831 **Lab ID: 258851009** Collected: 08/15/11 15:05 Received: 08/16/11 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron	**10800**	ug/L	100	1	08/26/11 08:44	08/29/11 13:37	7439-89-6	
8260 MSV	Analytical Method: EPA 5030B/8260							
tert-Amylmethyl ether	**132**	ug/L	0.50	1		08/23/11 01:28	994-05-8	
Benzene	**5920**	ug/L	25.0	50		08/26/11 18:21	71-43-2	
tert-Butyl Alcohol	**6920**	ug/L	250	50		08/26/11 18:21	75-65-0	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		08/23/11 01:28	106-93-4	
1,2-Dichloroethane	ND	ug/L	1.0	1		08/23/11 01:28	107-06-2	
Diisopropyl ether	ND	ug/L	0.50	1		08/23/11 01:28	108-20-3	
Ethanol	ND	ug/L	250	1		08/23/11 01:28	64-17-5	
Ethylbenzene	**3830**	ug/L	25.0	50		08/26/11 18:21	100-41-4	
Ethyl-tert-butyl ether	**12.2**	ug/L	0.50	1		08/23/11 01:28	637-92-3	
Methyl-tert-butyl ether	**5560**	ug/L	25.0	50		08/26/11 18:21	1634-04-4	
Toluene	**7240**	ug/L	25.0	50		08/26/11 18:21	108-88-3	
Xylene (Total)	**12100**	ug/L	75.0	50		08/26/11 18:21	1330-20-7	
4-Bromofluorobenzene (S)	113	%	79-121	1		08/23/11 01:28	460-00-4	
Dibromofluoromethane (S)	103	%	81-119	1		08/23/11 01:28	1868-53-7	
1,2-Dichloroethane-d4 (S)	132	%	72-127	1		08/23/11 01:28	17060-07-0	S5
Toluene-d8 (S)	80	%	77-120	1		08/23/11 01:28	2037-26-5	
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4							
Iron, Ferric	**3230**	ug/L	100	1		08/30/11 11:45	7439-89-6	
Iron, Ferrous	Analytical Method: SM 3500-Fe B#4							
Iron, Ferrous	**7600**	ug/L	100	1		08/15/11 15:05		
4500NH3D Nitrogen, Ammonia	Analytical Method: SM 4500-NH3 D							
Nitrogen, Ammonia	ND	ug/L	100	1		08/24/11 12:40	7664-41-7	
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S-2 F							
Sulfide	**1080**	ug/L	400	1		08/16/11 13:40	18496-25-8	
5210B BOD, 5 day	Analytical Method: SM 5210B Preparation Method: SM 5210B							
BOD, 5 day	**55000**	ug/L	2000	1	08/17/11 09:45	08/22/11 13:58		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**26400**	ug/L	5000	5		08/26/11 16:44	16887-00-6	
Sulfate	ND	ug/L	1000	1		08/29/11 18:31	14808-79-8	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	**1770**	ug/L	1000	1		08/23/11 16:16	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	ug/L	50.0	1		08/29/11 14:35		
Nitrogen, NO2 plus NO3	**62.1**	ug/L	50.0	1		08/29/11 14:35		

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ANALYTICAL RESULTS

Project: 2611117
Pace Project No.: 258851

Sample: DPE-4_20110831 **Lab ID: 258851009** Collected: 08/15/11 15:05 Received: 08/16/11 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
410.4 COD	Analytical Method: EPA 410.4							
Chemical Oxygen Demand	**113000**	ug/L	20000	4		08/26/11 13:30		
4500PE Total Phosphorus	Analytical Method: SM 4500-P E							
Phosphorus	**732**	ug/L	10.0	1		08/30/11 13:15	7723-14-0	
4500PE Ortho Phosphorus	Analytical Method: SM 4500-P E							
Orthophosphate as P	**502**	ug/L	10.0	1		08/16/11 17:28		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**14000**	ug/L	1000	1		08/19/11 14:11	7440-44-0	
SM4500NO2-B, Nitrite, unpres	Analytical Method: SM 4500-NO2 B							
Nitrite as N	**39.6**	ug/L	10.0	1		08/16/11 16:25	14797-65-0	

Sample: DPE-5_20110831 **Lab ID: 258851010** Collected: 08/15/11 14:40 Received: 08/16/11 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175							
Methane	**13900**	ug/L	10.0	1		08/17/11 23:22	74-82-8	E
Gasoline Range Organics	Analytical Method: EPA 5030B/8015B							
CA TPH-GRO (C5-C12)	**15900**	ug/L	2500	50		08/26/11 22:55		
4-Bromofluorobenzene (S)	93	%	47-140	50		08/26/11 22:55	460-00-4	
a,a,a-Trifluorotoluene (S)	104	%	69-142	50		08/26/11 22:55	98-08-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron	**20500**	ug/L	100	1	08/26/11 08:44	08/29/11 13:40	7439-89-6	
8260 MSV	Analytical Method: EPA 5030B/8260							
tert-Amylmethyl ether	**10.0**	ug/L	0.50	1		08/23/11 01:45	994-05-8	
Benzene	**2420**	ug/L	12.5	25		08/26/11 17:42	71-43-2	
tert-Butyl Alcohol	**2510**	ug/L	125	25		08/26/11 17:42	75-65-0	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		08/23/11 01:45	106-93-4	
1,2-Dichloroethane	ND	ug/L	1.0	1		08/23/11 01:45	107-06-2	
Diisopropyl ether	ND	ug/L	0.50	1		08/23/11 01:45	108-20-3	
Ethanol	ND	ug/L	250	1		08/23/11 01:45	64-17-5	
Ethylbenzene	**1340**	ug/L	12.5	25		08/26/11 17:42	100-41-4	
Ethyl-tert-butyl ether	**1.2**	ug/L	0.50	1		08/23/11 01:45	637-92-3	
Methyl-tert-butyl ether	**773**	ug/L	12.5	25		08/26/11 17:42	1634-04-4	
Toluene	**127**	ug/L	12.5	25		08/26/11 17:42	108-88-3	
Xylene (Total)	**1650**	ug/L	37.5	25		08/26/11 17:42	1330-20-7	
4-Bromofluorobenzene (S)	110	%	79-121	1		08/23/11 01:45	460-00-4	
Dibromofluoromethane (S)	101	%	81-119	1		08/23/11 01:45	1868-53-7	

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ANALYTICAL RESULTS

Project: 2611117
Pace Project No.: 258851

Sample: DPE-5_20110831 **Lab ID: 258851010** Collected: 08/15/11 14:40 Received: 08/16/11 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
1,2-Dichloroethane-d4 (S)	112	%	72-127	1		08/23/11 01:45	17060-07-0	
Toluene-d8 (S)	104	%	77-120	1		08/23/11 01:45	2037-26-5	
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4							
Iron, Ferric	**14000**	ug/L	100	1		08/30/11 11:45	7439-89-6	
Iron, Ferrous	Analytical Method: SM 3500-Fe B#4							
Iron, Ferrous	**6500**	ug/L	100	1		08/15/11 14:40		
4500NH3D Nitrogen, Ammonia	Analytical Method: SM 4500-NH3 D							
Nitrogen, Ammonia	ND	ug/L	100	1		08/24/11 12:40	7664-41-7	
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S-2 F							
Sulfide	**1600**	ug/L	400	1		08/16/11 13:40	18496-25-8	
5210B BOD, 5 day	Analytical Method: SM 5210B Preparation Method: SM 5210B							
BOD, 5 day	**21200**	ug/L	2000	1	08/17/11 09:45	08/22/11 13:55		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**32100**	ug/L	5000	5		08/26/11 17:01	16887-00-6	
Sulfate	ND	ug/L	1000	1		08/29/11 18:48	14808-79-8	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	**1320**	ug/L	1000	1		08/23/11 16:17	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	ug/L	50.0	1		08/29/11 14:38		
Nitrogen, NO2 plus NO3	ND	ug/L	50.0	1		08/29/11 14:38		
410.4 COD	Analytical Method: EPA 410.4							
Chemical Oxygen Demand	**53900**	ug/L	5000	1		08/18/11 13:05		
4500PE Total Phosphorus	Analytical Method: SM 4500-P E							
Phosphorus	**134**	ug/L	10.0	1		08/30/11 13:15	7723-14-0	3n
4500PE Ortho Phosphorus	Analytical Method: SM 4500-P E							
Orthophosphate as P	**240**	ug/L	10.0	1		08/16/11 17:28		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**9360**	ug/L	1000	1		08/19/11 14:11	7440-44-0	
SM4500NO2-B, Nitrite, unpres	Analytical Method: SM 4500-NO2 B							
Nitrite as N	**28.8**	ug/L	10.0	1		08/16/11 16:25	14797-65-0	

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QUALITY CONTROL DATA

Project: 2611117
Pace Project No.: 258851

QC Batch: AIR/12946 Analysis Method: RSK 175
QC Batch Method: RSK 175 Analysis Description: RSK 175 AIR HEADSPACE
Associated Lab Samples: 258851001, 258851002, 258851008, 258851009, 258851010

METHOD BLANK: 1035265 Matrix: Water
Associated Lab Samples: 258851001, 258851002, 258851008, 258851009, 258851010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Methane	ug/L	ND	10.0	08/17/11 19:49	

LABORATORY CONTROL SAMPLE & LCSD: 1035266 1035267

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Methane	ug/L	60.7	66.2	65.7	109	108	70-130	.8	30	

SAMPLE DUPLICATE: 1035826

Parameter	Units	258846002 Result	Dup Result	RPD	Qualifiers
Methane	ug/L	ND	ND		

SAMPLE DUPLICATE: 1035827

Parameter	Units	92100523011 Result	Dup Result	RPD	Qualifiers
Methane	ug/L	10.9	9.8J		

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QUALITY CONTROL DATA

Project: 2611117
Pace Project No.: 258851

QC Batch: GCV/2424 Analysis Method: EPA 5030B/8015B
QC Batch Method: EPA 5030B/8015B Analysis Description: Gasoline Range Organics
Associated Lab Samples: 258851002, 258851003, 258851006, 258851007, 258851008

METHOD BLANK: 83352 Matrix: Water
Associated Lab Samples: 258851002, 258851003, 258851006, 258851007, 258851008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
CA TPH-GRO (C5-C12)	ug/L	ND	50.0	08/24/11 22:40	
4-Bromofluorobenzene (S)	%	73	47-140	08/24/11 22:40	
a,a,a-Trifluorotoluene (S)	%	87	69-142	08/24/11 22:40	

LABORATORY CONTROL SAMPLE: 83353

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
CA TPH-GRO (C5-C12)	ug/L	250	249	100	61-128	
4-Bromofluorobenzene (S)	%			83	47-140	
a,a,a-Trifluorotoluene (S)	%			98	69-142	

MATRIX SPIKE SAMPLE: 83561

Parameter	Units	258851006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
CA TPH-GRO (C5-C12)	ug/L	ND	250	193	73	45-124	
4-Bromofluorobenzene (S)	%				89	47-140	
a,a,a-Trifluorotoluene (S)	%				99	69-142	

SAMPLE DUPLICATE: 83560

Parameter	Units	258851002 Result	Dup Result	RPD	Qualifiers
CA TPH-GRO (C5-C12)	ug/L	ND	8.3J		
4-Bromofluorobenzene (S)	%	87	87	.2	
a,a,a-Trifluorotoluene (S)	%	100	102	2	

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QUALITY CONTROL DATA

Project: 2611117
Pace Project No.: 258851

QC Batch: GCV/2430 Analysis Method: EPA 5030B/8015B
QC Batch Method: EPA 5030B/8015B Analysis Description: Gasoline Range Organics
Associated Lab Samples: 258851001, 258851004, 258851005, 258851009, 258851010

METHOD BLANK: 83692 Matrix: Water
Associated Lab Samples: 258851001, 258851004, 258851005, 258851009, 258851010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
CA TPH-GRO (C5-C12)	ug/L	ND	50.0	08/26/11 19:02	
4-Bromofluorobenzene (S)	%	65	47-140	08/26/11 19:02	
a,a,a-Trifluorotoluene (S)	%	85	69-142	08/26/11 19:02	

LABORATORY CONTROL SAMPLE: 83693

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
CA TPH-GRO (C5-C12)	ug/L	250	225	90	61-128	
4-Bromofluorobenzene (S)	%			78	47-140	
a,a,a-Trifluorotoluene (S)	%			103	69-142	

MATRIX SPIKE SAMPLE: 83997

Parameter	Units	258851004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
CA TPH-GRO (C5-C12)	ug/L	1530	250	1660	50	45-124	
4-Bromofluorobenzene (S)	%				90	47-140	
a,a,a-Trifluorotoluene (S)	%				97	69-142	

SAMPLE DUPLICATE: 83998

Parameter	Units	258851010 Result	Dup Result	RPD	Qualifiers
CA TPH-GRO (C5-C12)	ug/L	15900	15600	2	
4-Bromofluorobenzene (S)	%	93	90	3	
a,a,a-Trifluorotoluene (S)	%	104	104	.3	

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QUALITY CONTROL DATA

Project: 2611117
Pace Project No.: 258851

QC Batch: MPRP/2435 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 258851001, 258851002, 258851008, 258851009, 258851010

METHOD BLANK: 83618 Matrix: Water
Associated Lab Samples: 258851001, 258851002, 258851008, 258851009, 258851010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron	ug/L	ND	100	08/29/11 13:12	

LABORATORY CONTROL SAMPLE: 83619

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	10000	10100	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 83620 83621

Parameter	Units	258851001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Iron	ug/L	1420	10000	10000	11500	11700	101	103	75-125	2	

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QUALITY CONTROL DATA

Project: 2611117
Pace Project No.: 258851

QC Batch: MSV/5178
QC Batch Method: EPA 5030B/8260
Analysis Method: EPA 5030B/8260
Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 258851006

METHOD BLANK: 82723 Matrix: Water
Associated Lab Samples: 258851006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	08/22/11 12:50	
1,2-Dichloroethane	ug/L	ND	1.0	08/22/11 12:50	
Benzene	ug/L	ND	0.50	08/22/11 12:50	
Diisopropyl ether	ug/L	ND	0.50	08/22/11 12:50	
Ethanol	ug/L	ND	250	08/22/11 12:50	
Ethyl-tert-butyl ether	ug/L	ND	0.50	08/22/11 12:50	
Ethylbenzene	ug/L	ND	0.50	08/22/11 12:50	
Methyl-tert-butyl ether	ug/L	ND	0.50	08/22/11 12:50	
tert-Amylmethyl ether	ug/L	ND	0.50	08/22/11 12:50	
tert-Butyl Alcohol	ug/L	ND	5.0	08/22/11 12:50	
Toluene	ug/L	0.65	0.50	08/22/11 12:50	1n
Xylene (Total)	ug/L	ND	1.5	08/22/11 12:50	
1,2-Dichloroethane-d4 (S)	%	109	72-127	08/22/11 12:50	
4-Bromofluorobenzene (S)	%	113	79-121	08/22/11 12:50	
Dibromofluoromethane (S)	%	100	81-119	08/22/11 12:50	
Toluene-d8 (S)	%	104	77-120	08/22/11 12:50	

LABORATORY CONTROL SAMPLE: 82724

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	20	19.3	97	65-123	
1,2-Dichloroethane	ug/L	20	19.8	99	63-131	
Benzene	ug/L	20	18.4	92	66-123	
Diisopropyl ether	ug/L	20	21.1	105	70-136	
Ethanol	ug/L	800	843	105	40-160	
Ethyl-tert-butyl ether	ug/L	20	19.8	99	65-135	
Ethylbenzene	ug/L	20	18.9	94	67-122	
Methyl-tert-butyl ether	ug/L	20	19.3	97	65-138	
tert-Amylmethyl ether	ug/L	20	16.5	83	68-138	
tert-Butyl Alcohol	ug/L	100	92.9	93	57-153	
Toluene	ug/L	20	19.3	97	64-118	
Xylene (Total)	ug/L	60	53.4	89	68-122	
1,2-Dichloroethane-d4 (S)	%			107	72-127	
4-Bromofluorobenzene (S)	%			112	79-121	
Dibromofluoromethane (S)	%			99	81-119	
Toluene-d8 (S)	%			104	77-120	

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QUALITY CONTROL DATA

Project: 2611117
Pace Project No.: 258851

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 83256 83257

Parameter	Units	258811001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	18.0	19.1	90	95	61-127	6	
1,2-Dichloroethane	ug/L	ND	20	20	18.1	20.2	91	101	60-138	11	
Benzene	ug/L	ND	20	20	12.5	21.0	62	105	63-138	51	D6,M1
Diisopropyl ether	ug/L	ND	20	20	20.0	22.6	100	113	68-146	12	
Ethanol	ug/L	ND	800	800	1040	811	127	99	40-160	25	
Ethyl-tert-butyl ether	ug/L	ND	20	20	19.4	21.1	97	106	63-138	9	
Ethylbenzene	ug/L	ND	20	20	9.2	21.6	46	107	65-135	80	D6,M1
Methyl-tert-butyl ether	ug/L	ND	20	20	18.8	19.2	94	96	59-143	2	
tert-Amylmethyl ether	ug/L	ND	20	20	16.8	17.3	84	86	62-142	3	
tert-Butyl Alcohol	ug/L	ND	100	100	109	85.2	108	85	46-156	25	
Toluene	ug/L	ND	20	20	11.4	21.9	53	106	64-128	63	D6,M1
Xylene (Total)	ug/L	ND	60	60	28.0	60.4	45	100	65-133	73	D6,M1
1,2-Dichloroethane-d4 (S)	%						107	106	72-127		
4-Bromofluorobenzene (S)	%						113	112	79-121		
Dibromofluoromethane (S)	%						99	101	81-119		
Toluene-d8 (S)	%						104	105	77-120		

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QUALITY CONTROL DATA

Project: 2611117
Pace Project No.: 258851

QC Batch: MSV/5188
QC Batch Method: EPA 5030B/8260
Analysis Method: EPA 5030B/8260
Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 258851001

METHOD BLANK: 82792 Matrix: Water
Associated Lab Samples: 258851001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	08/20/11 14:30	
1,2-Dichloroethane	ug/L	ND	1.0	08/20/11 14:30	
Benzene	ug/L	0.54	0.50	08/20/11 14:30	
Diisopropyl ether	ug/L	ND	0.50	08/20/11 14:30	
Ethanol	ug/L	ND	250	08/20/11 14:30	
Ethyl-tert-butyl ether	ug/L	ND	0.50	08/20/11 14:30	
Ethylbenzene	ug/L	ND	0.50	08/20/11 14:30	
Methyl-tert-butyl ether	ug/L	ND	0.50	08/20/11 14:30	
tert-Amylmethyl ether	ug/L	ND	0.50	08/20/11 14:30	
tert-Butyl Alcohol	ug/L	ND	5.0	08/20/11 14:30	
Toluene	ug/L	2.8	0.50	08/20/11 14:30	B+
Xylene (Total)	ug/L	1.7	1.5	08/20/11 14:30	
1,2-Dichloroethane-d4 (S)	%	108	72-127	08/20/11 14:30	
4-Bromofluorobenzene (S)	%	111	79-121	08/20/11 14:30	
Dibromofluoromethane (S)	%	98	81-119	08/20/11 14:30	
Toluene-d8 (S)	%	103	77-120	08/20/11 14:30	

LABORATORY CONTROL SAMPLE: 82793

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	20	17.4	87	65-123	
1,2-Dichloroethane	ug/L	20	18.7	93	63-131	
Benzene	ug/L	20	15.8	79	66-123	
Diisopropyl ether	ug/L	20	18.5	92	70-136	
Ethanol	ug/L	800	757	95	40-160	
Ethyl-tert-butyl ether	ug/L	20	18.6	93	65-135	
Ethylbenzene	ug/L	20	17.0	85	67-122	
Methyl-tert-butyl ether	ug/L	20	17.5	87	65-138	
tert-Amylmethyl ether	ug/L	20	15.7	79	68-138	
tert-Butyl Alcohol	ug/L	100	83.7	84	57-153	
Toluene	ug/L	20	16.3	81	64-118	
Xylene (Total)	ug/L	60	48.1	80	68-122	
1,2-Dichloroethane-d4 (S)	%			114	72-127	
4-Bromofluorobenzene (S)	%			110	79-121	
Dibromofluoromethane (S)	%			101	81-119	
Toluene-d8 (S)	%			102	77-120	

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QUALITY CONTROL DATA

Project: 2611117
Pace Project No.: 258851

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 82794 82795

Parameter	Units	258829018 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	17.0	7.9	85	40	61-127	73	D6,M1
1,2-Dichloroethane	ug/L	ND	20	20	71.7	57.6	358	288	60-138	22	M1
Benzene	ug/L	1590	20	20	874	821	-3600	-3870	63-138	6	E,M1
Diisopropyl ether	ug/L	ND	20	20	19.8	9.0	99	45	68-146	76	D6,M1
Ethanol	ug/L	ND	800	800	526	238J	66	30	40-160		M1
Ethyl-tert-butyl ether	ug/L	ND	20	20	21.5	9.7	108	49	63-138	75	D6,M1
Ethylbenzene	ug/L	552	20	20	519	481	-165	-355	65-135	8	E,M1
Methyl-tert-butyl ether	ug/L	ND	20	20	16.5	7.8	82	39	59-143	71	D6,M1
tert-Amylmethyl ether	ug/L	ND	20	20	19.1	9.8	95	49	62-142	65	D6,M1
tert-Butyl Alcohol	ug/L	5.7	100	100	55.6	32.5	50	27	46-156	52	D6,M1
Toluene	ug/L	3870	20	20	2350	2160	-7640	-8560	64-128	8	E,M1
Xylene (Total)	ug/L	2650	60	60	2650	2440	.3	-365	65-133	9	E,M1
1,2-Dichloroethane-d4 (S)	%						111	110	72-127		
4-Bromofluorobenzene (S)	%						107	107	79-121		
Dibromofluoromethane (S)	%						100	100	81-119		
Toluene-d8 (S)	%						104	104	77-120		

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QUALITY CONTROL DATA

Project: 2611117
Pace Project No.: 258851

QC Batch: MSV/5196
QC Batch Method: EPA 5030B/8260
Analysis Method: EPA 5030B/8260
Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 258851009, 258851010

METHOD BLANK: 83562 Matrix: Water
Associated Lab Samples: 258851009, 258851010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	08/23/11 00:03	
1,2-Dichloroethane	ug/L	ND	1.0	08/23/11 00:03	
Diisopropyl ether	ug/L	ND	0.50	08/23/11 00:03	
Ethanol	ug/L	ND	250	08/23/11 00:03	
Ethyl-tert-butyl ether	ug/L	ND	0.50	08/23/11 00:03	
tert-Amylmethyl ether	ug/L	ND	0.50	08/23/11 00:03	
1,2-Dichloroethane-d4 (S)	%	115	72-127	08/23/11 00:03	
4-Bromofluorobenzene (S)	%	116	79-121	08/23/11 00:03	
Dibromofluoromethane (S)	%	101	81-119	08/23/11 00:03	
Toluene-d8 (S)	%	106	77-120	08/23/11 00:03	

LABORATORY CONTROL SAMPLE: 83563

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	20	20.4	102	65-123	
1,2-Dichloroethane	ug/L	20	22.1	110	63-131	
Diisopropyl ether	ug/L	20	23.6	118	70-136	
Ethanol	ug/L	800	1090	136	40-160	
Ethyl-tert-butyl ether	ug/L	20	20.8	104	65-135	
tert-Amylmethyl ether	ug/L	20	16.8	84	68-138	
1,2-Dichloroethane-d4 (S)	%			113	72-127	
4-Bromofluorobenzene (S)	%			112	79-121	
Dibromofluoromethane (S)	%			102	81-119	
Toluene-d8 (S)	%			104	77-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 83564 83565

Parameter	Units	258871004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	18.8	21.8	94	109	61-127	15	
1,2-Dichloroethane	ug/L	ND	20	20	20.8	24.1	104	121	60-138	15	
Diisopropyl ether	ug/L	ND	20	20	22.6	25.8	113	129	68-146	13	
Ethanol	ug/L	ND	800	800	998	1170	125	146	40-160	16	
Ethyl-tert-butyl ether	ug/L	ND	20	20	19.8	22.1	99	111	63-138	11	
tert-Amylmethyl ether	ug/L	ND	20	20	15.9	17.5	79	87	62-142	10	
1,2-Dichloroethane-d4 (S)	%						113	113	72-127		
4-Bromofluorobenzene (S)	%						114	115	79-121		
Dibromofluoromethane (S)	%						102	102	81-119		
Toluene-d8 (S)	%						105	104	77-120		

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QUALITY CONTROL DATA

Project: 2611117
Pace Project No.: 258851

QC Batch: MSV/5227 Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 258851002, 258851003, 258851004, 258851007, 258851008

METHOD BLANK: 83631 Matrix: Water
Associated Lab Samples: 258851002, 258851003, 258851004, 258851007, 258851008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	08/26/11 09:50	
1,2-Dichloroethane	ug/L	ND	1.0	08/26/11 09:50	
Benzene	ug/L	ND	0.50	08/26/11 09:50	
Diisopropyl ether	ug/L	ND	0.50	08/26/11 09:50	
Ethanol	ug/L	ND	250	08/26/11 09:50	
Ethyl-tert-butyl ether	ug/L	ND	0.50	08/26/11 09:50	
Ethylbenzene	ug/L	ND	0.50	08/26/11 09:50	
Methyl-tert-butyl ether	ug/L	ND	0.50	08/26/11 09:50	
tert-Amylmethyl ether	ug/L	ND	0.50	08/26/11 09:50	
tert-Butyl Alcohol	ug/L	ND	5.0	08/26/11 09:50	
Toluene	ug/L	ND	0.50	08/26/11 09:50	
Xylene (Total)	ug/L	ND	1.5	08/26/11 09:50	
1,2-Dichloroethane-d4 (S)	%	111	72-127	08/26/11 09:50	
4-Bromofluorobenzene (S)	%	113	79-121	08/26/11 09:50	
Dibromofluoromethane (S)	%	101	81-119	08/26/11 09:50	
Toluene-d8 (S)	%	106	77-120	08/26/11 09:50	

LABORATORY CONTROL SAMPLE: 83632

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	20	18.7	93	65-123	
1,2-Dichloroethane	ug/L	20	19.0	95	63-131	
Benzene	ug/L	20	18.6	93	66-123	
Diisopropyl ether	ug/L	20	20.8	104	70-136	
Ethanol	ug/L	800	831	104	40-160	
Ethyl-tert-butyl ether	ug/L	20	18.6	93	65-135	
Ethylbenzene	ug/L	20	19.1	96	67-122	
Methyl-tert-butyl ether	ug/L	20	17.8	89	65-138	
tert-Amylmethyl ether	ug/L	20	15.7	78	68-138	
tert-Butyl Alcohol	ug/L	100	95.9	96	57-153	
Toluene	ug/L	20	19.8	99	64-118	
Xylene (Total)	ug/L	60	53.6	89	68-122	
1,2-Dichloroethane-d4 (S)	%			108	72-127	
4-Bromofluorobenzene (S)	%			113	79-121	
Dibromofluoromethane (S)	%			100	81-119	
Toluene-d8 (S)	%			106	77-120	

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QUALITY CONTROL DATA

Project: 2611117
Pace Project No.: 258851

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 83633 83634

Parameter	Units	258848009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	17.8	19.3	88	96	61-127	8	
1,2-Dichloroethane	ug/L	ND	20	20	19.6	20.1	97	100	60-138	3	
Benzene	ug/L	1.8	20	20	23.2	22.5	107	103	63-138	3	
Diisopropyl ether	ug/L	ND	20	20	22.1	22.1	111	111	68-146	.06	
Ethanol	ug/L	ND	800	800	809	808	101	101	40-160	.09	
Ethyl-tert-butyl ether	ug/L	ND	20	20	19.6	20.7	98	104	63-138	5	
Ethylbenzene	ug/L	32.2	20	20	60.1	57.2	140	125	65-135	5	M1
Methyl-tert-butyl ether	ug/L	2.0	20	20	18.8	20.6	84	93	59-143	9	
tert-Amylmethyl ether	ug/L	ND	20	20	15.8	16.7	79	84	62-142	5	
tert-Butyl Alcohol	ug/L	ND	100	100	76.3	84.0	72	80	46-156	10	
Toluene	ug/L	ND	20	20	23.1	22.3	113	109	64-128	3	
Xylene (Total)	ug/L	15.6	60	60	79.3	76.4	106	101	65-133	4	
1,2-Dichloroethane-d4 (S)	%						102	106	72-127		
4-Bromofluorobenzene (S)	%						117	114	79-121		
Dibromofluoromethane (S)	%						98	100	81-119		
Toluene-d8 (S)	%						105	106	77-120		

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QUALITY CONTROL DATA

Project: 2611117
Pace Project No.: 258851

QC Batch: MSV/5228 Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 258851005, 258851009, 258851010

METHOD BLANK: 83640 Matrix: Water
Associated Lab Samples: 258851005, 258851009, 258851010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	08/26/11 09:33	
1,2-Dichloroethane	ug/L	ND	1.0	08/26/11 09:33	
Benzene	ug/L	ND	0.50	08/26/11 09:33	
Diisopropyl ether	ug/L	ND	0.50	08/26/11 09:33	
Ethanol	ug/L	ND	250	08/26/11 09:33	
Ethyl-tert-butyl ether	ug/L	ND	0.50	08/26/11 09:33	
Ethylbenzene	ug/L	ND	0.50	08/26/11 09:33	
Methyl-tert-butyl ether	ug/L	ND	0.50	08/26/11 09:33	
tert-Amylmethyl ether	ug/L	ND	0.50	08/26/11 09:33	
tert-Butyl Alcohol	ug/L	ND	5.0	08/26/11 09:33	
Toluene	ug/L	ND	0.50	08/26/11 09:33	
Xylene (Total)	ug/L	ND	1.5	08/26/11 09:33	
1,2-Dichloroethane-d4 (S)	%	109	72-127	08/26/11 09:33	
4-Bromofluorobenzene (S)	%	115	79-121	08/26/11 09:33	
Dibromofluoromethane (S)	%	100	81-119	08/26/11 09:33	
Toluene-d8 (S)	%	106	77-120	08/26/11 09:33	

LABORATORY CONTROL SAMPLE: 83641

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	20	18.1	91	65-123	
1,2-Dichloroethane	ug/L	20	18.9	95	63-131	
Benzene	ug/L	20	18.9	95	66-123	
Diisopropyl ether	ug/L	20	20.8	104	70-136	
Ethanol	ug/L	800	817	102	40-160	
Ethyl-tert-butyl ether	ug/L	20	18.0	90	65-135	
Ethylbenzene	ug/L	20	19.7	98	67-122	
Methyl-tert-butyl ether	ug/L	20	16.9	85	65-138	
tert-Amylmethyl ether	ug/L	20	14.8	74	68-138	
tert-Butyl Alcohol	ug/L	100	88.4	88	57-153	
Toluene	ug/L	20	20.3	102	64-118	
Xylene (Total)	ug/L	60	55.0	92	68-122	
1,2-Dichloroethane-d4 (S)	%			106	72-127	
4-Bromofluorobenzene (S)	%			113	79-121	
Dibromofluoromethane (S)	%			99	81-119	
Toluene-d8 (S)	%			106	77-120	

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QUALITY CONTROL DATA

Project: 2611117
Pace Project No.: 258851

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 83642 83643

Parameter	Units	258853002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	200	200	147	199	73	100	61-127	30	D6
1,2-Dichloroethane	ug/L	ND	200	200	168	217	84	108	60-138	25	D6
Benzene	ug/L	553	200	200	641	694	44	71	63-138	8	M1
Diisopropyl ether	ug/L	ND	200	200	166	218	83	109	68-146	27	D6
Ethanol	ug/L	ND	8000	8000	7630	10500	95	131	40-160	32	D6
Ethyl-tert-butyl ether	ug/L	ND	200	200	136	187	68	94	63-138	31	D6
Ethylbenzene	ug/L	161	200	200	287	338	63	89	65-135	16	M1
Methyl-tert-butyl ether	ug/L	ND	200	200	138	182	69	91	59-143	28	D6
tert-Amylmethyl ether	ug/L	ND	200	200	117	155	58	77	62-142	28	M1
tert-Butyl Alcohol	ug/L	ND	1000	1000	802	1010	80	101	46-156	23	
Toluene	ug/L	163	200	200	291	343	64	90	64-128	16	
Xylene (Total)	ug/L	575	600	600	901	1050	54	80	65-133	16	M1
1,2-Dichloroethane-d4 (S)	%						110	108	72-127		
4-Bromofluorobenzene (S)	%						114	112	79-121		
Dibromofluoromethane (S)	%						101	100	81-119		
Toluene-d8 (S)	%						105	106	77-120		

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QUALITY CONTROL DATA

Project: 2611117
Pace Project No.: 258851

QC Batch: WET/3034 Analysis Method: SM 4500-NH3 D
QC Batch Method: SM 4500-NH3 D Analysis Description: 4500NH3D Nitrogen, Ammonia
Associated Lab Samples: 258851001, 258851002, 258851008, 258851009, 258851010

METHOD BLANK: 82542 Matrix: Water
Associated Lab Samples: 258851001, 258851002, 258851008, 258851009, 258851010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	ug/L	ND	100	08/24/11 12:40	

LABORATORY CONTROL SAMPLE: 82543

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	ug/L	1000	1070	107	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 82544 82545

Parameter	Units	258783007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Nitrogen, Ammonia	ug/L	195	1000	1000	1080	1130	89	94	80-120	4	

MATRIX SPIKE SAMPLE: 83317

Parameter	Units	258882001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	ug/L	0.15 mg/L	1000	1180	103	80-120	

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QUALITY CONTROL DATA

Project: 2611117
Pace Project No.: 258851

QC Batch: WET/3018 Analysis Method: SM 4500-S-2 F
QC Batch Method: SM 4500-S-2 F Analysis Description: 4500S2F Sulfide, Iodometric
Associated Lab Samples: 258851001, 258851002, 258851008, 258851009, 258851010

METHOD BLANK: 81903 Matrix: Water
Associated Lab Samples: 258851001, 258851002, 258851008, 258851009, 258851010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide	ug/L	ND	400	08/16/11 13:40	

LABORATORY CONTROL SAMPLE: 81904

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	ug/L	9640	9560	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 81905 81906

Parameter	Units	258783004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Sulfide	ug/L	960	9640	9640	9800	9960	92	93	75-125	2	

MATRIX SPIKE SAMPLE: 82092

Parameter	Units	258851002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide	ug/L	760	9640	9880	95	75-125	

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QUALITY CONTROL DATA

Project: 2611117
Pace Project No.: 258851

QC Batch: WET/3021 Analysis Method: SM 5210B
QC Batch Method: SM 5210B Analysis Description: 5210B BOD, 5 day
Associated Lab Samples: 258851001, 258851002, 258851008, 258851009, 258851010

METHOD BLANK: 82086 Matrix: Water
Associated Lab Samples: 258851001, 258851002, 258851008, 258851009, 258851010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	ug/L	ND	2000	08/22/11 13:42	

LABORATORY CONTROL SAMPLE: 82087

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	ug/L	198000	175000	88	85-115	

SAMPLE DUPLICATE: 82088

Parameter	Units	258851008 Result	Dup Result	RPD	Qualifiers
BOD, 5 day	ug/L	4560	4530	.6	

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QUALITY CONTROL DATA

Project: 2611117
Pace Project No.: 258851

QC Batch: WETA/2129
QC Batch Method: EPA 300.0
Analysis Method: EPA 300.0
Analysis Description: 300.0 IC Anions
Associated Lab Samples: 258851001

METHOD BLANK: 82194 Matrix: Water
Associated Lab Samples: 258851001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	ug/L	ND	1000	08/17/11 20:13	
Sulfate	ug/L	ND	1000	08/17/11 20:13	

LABORATORY CONTROL SAMPLE: 82195

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	ug/L	5000	4530	91	90-110	
Sulfate	ug/L	15000	14500	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 82196 82197

Parameter	Units	258863003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Chloride	ug/L	2.2 mg/L	5000	5000	6680	6680	90	90	90-110	.02	
Sulfate	ug/L	ND	15000	15000	14700	14700	94	94	90-110	.4	

MATRIX SPIKE SAMPLE: 82198

Parameter	Units	258783004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	ug/L	31200	25000	49600	74	90-110	M1
Sulfate	ug/L	25000	30000	56800	106	90-110	

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QUALITY CONTROL DATA

Project: 2611117
Pace Project No.: 258851

QC Batch: WETA/2145 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 258851002, 258851008, 258851009, 258851010

METHOD BLANK: 83405 Matrix: Water
Associated Lab Samples: 258851002, 258851008, 258851009, 258851010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	ug/L	ND	1000	08/26/11 14:27	
Sulfate	ug/L	ND	1000	08/26/11 14:27	

LABORATORY CONTROL SAMPLE: 83406

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	ug/L	5000	4630	93	90-110	
Sulfate	ug/L	15000	14700	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 83407 83408

Parameter	Units	258851002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Chloride	ug/L	17100	10000	10000	26800	26600	97	95	90-110	.6	
Sulfate	ug/L	17600	30000	30000	49600	49500	107	106	90-110	.1	

MATRIX SPIKE SAMPLE: 83409

Parameter	Units	258902001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	ug/L		2500000	2170000	85	90-110	M2
Sulfate	ug/L	2700 mg/L	7500000	9880000	96	90-110	

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QUALITY CONTROL DATA

Project: 2611117
Pace Project No.: 258851

QC Batch: WETA/2138 Analysis Method: EPA 351.2
QC Batch Method: EPA 351.2 Analysis Description: 351.2 TKN
Associated Lab Samples: 258851001, 258851002, 258851008, 258851009, 258851010

METHOD BLANK: 82843 Matrix: Water
Associated Lab Samples: 258851001, 258851002, 258851008, 258851009, 258851010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Kjeldahl, Total	ug/L	ND	1000	08/23/11 15:58	

LABORATORY CONTROL SAMPLE: 82844

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	ug/L	5000	4910	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 82845 82846

Parameter	Units	258783004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Nitrogen, Kjeldahl, Total	ug/L	3200	5000	5000	7120	7260	78	81	90-110	2	M1

MATRIX SPIKE SAMPLE: 82847

Parameter	Units	258860001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	ug/L	33.5 mg/L	5000	40500	140	90-110	M1

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QUALITY CONTROL DATA

Project: 2611117
Pace Project No.: 258851

QC Batch: WETA/2155 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, preserved
Associated Lab Samples: 258851001, 258851002, 258851008, 258851009, 258851010

METHOD BLANK: 83877 Matrix: Water
Associated Lab Samples: 258851001, 258851002, 258851008, 258851009, 258851010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	ug/L	ND	50.0	08/29/11 14:06	

LABORATORY CONTROL SAMPLE: 83878

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	ug/L	1000	903	90	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 83879 83880

Parameter	Units	258846001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Nitrogen, NO2 plus NO3	ug/L	0.14 mg/L	1000	1000	1250	1290	112	115	90-110	3	M1

MATRIX SPIKE SAMPLE: 83881

Parameter	Units	258851009 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	ug/L	62.1	1000	1160	110	90-110	

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QUALITY CONTROL DATA

Project: 2611117
Pace Project No.: 258851

QC Batch: WETA/2130 Analysis Method: EPA 410.4
QC Batch Method: EPA 410.4 Analysis Description: 410.4 COD
Associated Lab Samples: 258851001, 258851002, 258851008, 258851010

METHOD BLANK: 82208 Matrix: Water
Associated Lab Samples: 258851001, 258851002, 258851008, 258851010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	ug/L	ND	5000	08/18/11 13:05	

LABORATORY CONTROL SAMPLE: 82209

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	ug/L	50000	51200	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 82210 82211

Parameter	Units	258783004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Chemical Oxygen Demand	ug/L	21600	50000	50000	72700	75500	102	108	90-110	4	

MATRIX SPIKE SAMPLE: 82393

Parameter	Units	258886002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	ug/L	135 mg/L	50000	182000	94	90-110	

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QUALITY CONTROL DATA

Project: 2611117
Pace Project No.: 258851

QC Batch: WETA/2150 Analysis Method: EPA 410.4
QC Batch Method: EPA 410.4 Analysis Description: 410.4 COD
Associated Lab Samples: 258851009

METHOD BLANK: 83423 Matrix: Water
Associated Lab Samples: 258851009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	ug/L	ND	5000	08/26/11 13:30	

LABORATORY CONTROL SAMPLE: 83424

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	ug/L	50000	46600	93	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 83425 83426

Parameter	Units	258851009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Chemical Oxygen Demand	ug/L	113000	200000	200000	329000	314000	108	100	90-110	5	

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QUALITY CONTROL DATA

Project: 2611117
Pace Project No.: 258851

QC Batch: WETA/2156 Analysis Method: SM 4500-P E
QC Batch Method: SM 4500-P E Analysis Description: 4500PE Total Phosphorus
Associated Lab Samples: 258851001, 258851002, 258851008, 258851009, 258851010

METHOD BLANK: 83886 Matrix: Water
Associated Lab Samples: 258851001, 258851002, 258851008, 258851009, 258851010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phosphorus	ug/L	ND	10.0	08/30/11 13:15	

LABORATORY CONTROL SAMPLE: 83887

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphorus	ug/L	100	100	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 82857 83888

Parameter	Units	258874001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Phosphorus	ug/L	95.6	100	100	126	129	30	34	80-120	3	M1

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QUALITY CONTROL DATA

Project: 2611117
Pace Project No.: 258851

QC Batch: WETA/2128 Analysis Method: SM 4500-P E
QC Batch Method: SM 4500-P E Analysis Description: 4500PE Ortho Phosphorus
Associated Lab Samples: 258851001, 258851002, 258851008, 258851009, 258851010

METHOD BLANK: 82060 Matrix: Water
Associated Lab Samples: 258851001, 258851002, 258851008, 258851009, 258851010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Orthophosphate as P	ug/L	ND	10.0	08/16/11 17:28	

LABORATORY CONTROL SAMPLE: 82061

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Orthophosphate as P	ug/L	100	101	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 82062 82063

Parameter	Units	258851002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Orthophosphate as P	ug/L	162	100	100	270	265	108	103	80-120	2	

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QUALITY CONTROL DATA

Project: 2611117
Pace Project No.: 258851

QC Batch: WETA/2134 Analysis Method: SM 5310C
QC Batch Method: SM 5310C Analysis Description: 5310C Total Organic Carbon
Associated Lab Samples: 258851001, 258851002, 258851008, 258851009, 258851010

METHOD BLANK: 82388 Matrix: Water
Associated Lab Samples: 258851001, 258851002, 258851008, 258851009, 258851010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	ug/L	ND	1000	08/19/11 14:11	

LABORATORY CONTROL SAMPLE & LCSD: 82389 82390

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Total Organic Carbon	ug/L	10000	9900	9800	99	98	90-110	1	20	

MATRIX SPIKE SAMPLE: 82391

Parameter	Units	258879002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	ug/L	51.1 mg/L	40000	86900	90	75-125	

MATRIX SPIKE SAMPLE: 82392

Parameter	Units	258886001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	ug/L	584 mg/L	100000	685000	101	75-125	

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QUALITY CONTROL DATA

Project: 2611117
Pace Project No.: 258851

QC Batch: WETA/2127 Analysis Method: SM 4500-NO2 B
QC Batch Method: SM 4500-NO2 B Analysis Description: SM4500NO2-B, Nitrite, unpres
Associated Lab Samples: 258851001, 258851002, 258851008, 258851009, 258851010

METHOD BLANK: 82055 Matrix: Water
Associated Lab Samples: 258851001, 258851002, 258851008, 258851009, 258851010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrite as N	ug/L	ND	10.0	08/16/11 16:25	

LABORATORY CONTROL SAMPLE: 82056

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrite as N	ug/L	50	46.3	93	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 82057 82058

Parameter	Units	258851002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Nitrite as N	ug/L	ND	50	50	52.4	52.5	86	87	71-109	.2	

MATRIX SPIKE SAMPLE: 82059

Parameter	Units	258846008 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrite as N	ug/L	0.014 mg/L	50	58.5	88	71-109	

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QUALIFIERS

Project: 2611117
Pace Project No.: 258851

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-M	Pace Analytical Services - Minneapolis
PASI-S	Pace Analytical Services - Seattle

BATCH QUALIFIERS

Batch: WET/3032

[1]	Ferrous iron results obtained in the field and provided by the client. Total iron results obtained in the lab within acceptable hold times. No holding time violations occurred for ferric iron calculation.

Batch: WET/3033

[1]	Ferrous iron results obtained in the field and provided by the client. Total iron results obtained in the lab within acceptable hold times. No holding time violations occurred for ferric iron calculation.

ANALYTE QUALIFIERS

1n	Analyte was detected in the associated method blank below the report limit. Amount detected is above one-half of the report limit.
2n	High bias (confirmed with secondary analysis) due to matrix interference.
3n	Matrix interference noted for this sample.
4n	The amount of this analyte observed in this sample was greater than ten times the amount observed in the method blank. Therefore, the amount observed in the method blank is insignificant.
B+	Analyte was detected in the associated method blank as well as in the sample.
D4	Sample was diluted due to the presence of high levels of target analytes.
D6	The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.
E	Analyte concentration exceeded the calibration range. The reported result is estimated.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
M2	Matrix spike recovery was below QC limits due to sample dilution. Data acceptance based on laboratory control sample (LCS) recovery.
S5	Surrogate recovery outside control limits due to matrix interferences (not confirmed by re-analysis).

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2611117
Pace Project No.: 258851

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
258851001	**EX-1_20110831**	RSK 175	AIR/12946		
258851002	**EX-2_20110831**	RSK 175	AIR/12946		
258851008	**DPE-1_20110831**	RSK 175	AIR/12946		
258851009	**DPE-4_20110831**	RSK 175	AIR/12946		
258851010	**DPE-5_20110831**	RSK 175	AIR/12946		
258851001	**EX-1_20110831**	EPA 5030B/8015B	GCV/2430		
258851002	**EX-2_20110831**	EPA 5030B/8015B	GCV/2424		
258851003	**MW-10_20110831**	EPA 5030B/8015B	GCV/2424		
258851004	**MW-11_20110831**	EPA 5030B/8015B	GCV/2430		
258851005	**MW-4_20110831**	EPA 5030B/8015B	GCV/2430		
258851006	**MW-7_20110831**	EPA 5030B/8015B	GCV/2424		
258851007	**TB1_20110831**	EPA 5030B/8015B	GCV/2424		
258851008	**DPE-1_20110831**	EPA 5030B/8015B	GCV/2424		
258851009	**DPE-4_20110831**	EPA 5030B/8015B	GCV/2430		
258851010	**DPE-5_20110831**	EPA 5030B/8015B	GCV/2430		
258851001	**EX-1_20110831**	EPA 3010	MPRP/2435	EPA 6010	ICP/2324
258851002	**EX-2_20110831**	EPA 3010	MPRP/2435	EPA 6010	ICP/2324
258851008	**DPE-1_20110831**	EPA 3010	MPRP/2435	EPA 6010	ICP/2324
258851009	**DPE-4_20110831**	EPA 3010	MPRP/2435	EPA 6010	ICP/2324
258851010	**DPE-5_20110831**	EPA 3010	MPRP/2435	EPA 6010	ICP/2324
258851001	**EX-1_20110831**	EPA 5030B/8260	MSV/5188		
258851002	**EX-2_20110831**	EPA 5030B/8260	MSV/5227		
258851003	**MW-10_20110831**	EPA 5030B/8260	MSV/5227		
258851004	**MW-11_20110831**	EPA 5030B/8260	MSV/5227		
258851005	**MW-4_20110831**	EPA 5030B/8260	MSV/5228		
258851006	**MW-7_20110831**	EPA 5030B/8260	MSV/5178		
258851007	**TB1_20110831**	EPA 5030B/8260	MSV/5227		
258851008	**DPE-1_20110831**	EPA 5030B/8260	MSV/5227		
258851009	**DPE-4_20110831**	EPA 5030B/8260	MSV/5196		
258851009	**DPE-4_20110831**	EPA 5030B/8260	MSV/5228		
258851010	**DPE-5_20110831**	EPA 5030B/8260	MSV/5196		
258851010	**DPE-5_20110831**	EPA 5030B/8260	MSV/5228		
258851001	**EX-1_20110831**	SM 3500-Fe B#4	WET/3033		
258851002	**EX-2_20110831**	SM 3500-Fe B#4	WET/3033		
258851008	**DPE-1_20110831**	SM 3500-Fe B#4	WET/3033		
258851009	**DPE-4_20110831**	SM 3500-Fe B#4	WET/3033		
258851010	**DPE-5_20110831**	SM 3500-Fe B#4	WET/3033		
258851001	**EX-1_20110831**	SM 3500-Fe B#4	WET/3032		
258851002	**EX-2_20110831**	SM 3500-Fe B#4	WET/3032		
258851008	**DPE-1_20110831**	SM 3500-Fe B#4	WET/3032		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2611117
Pace Project No.: 258851

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
258851009	**DPE-4_20110831**	SM 3500-Fe B#4	WET/3032		
258851010	**DPE-5_20110831**	SM 3500-Fe B#4	WET/3032		
258851001	**EX-1_20110831**	SM 4500-NH3 D	WET/3034		
258851002	**EX-2_20110831**	SM 4500-NH3 D	WET/3034		
258851008	**DPE-1_20110831**	SM 4500-NH3 D	WET/3034		
258851009	**DPE-4_20110831**	SM 4500-NH3 D	WET/3034		
258851010	**DPE-5_20110831**	SM 4500-NH3 D	WET/3034		
258851001	**EX-1_20110831**	SM 4500-S-2 F	WET/3018		
258851002	**EX-2_20110831**	SM 4500-S-2 F	WET/3018		
258851008	**DPE-1_20110831**	SM 4500-S-2 F	WET/3018		
258851009	**DPE-4_20110831**	SM 4500-S-2 F	WET/3018		
258851010	**DPE-5_20110831**	SM 4500-S-2 F	WET/3018		
258851001	**EX-1_20110831**	SM 5210B	WET/3021	SM 5210B	WET/3026
258851002	**EX-2_20110831**	SM 5210B	WET/3021	SM 5210B	WET/3026
258851008	**DPE-1_20110831**	SM 5210B	WET/3021	SM 5210B	WET/3026
258851009	**DPE-4_20110831**	SM 5210B	WET/3021	SM 5210B	WET/3026
258851010	**DPE-5_20110831**	SM 5210B	WET/3021	SM 5210B	WET/3026
258851001	**EX-1_20110831**	EPA 300.0	WETA/2129		
258851002	**EX-2_20110831**	EPA 300.0	WETA/2145		
258851008	**DPE-1_20110831**	EPA 300.0	WETA/2145		
258851009	**DPE-4_20110831**	EPA 300.0	WETA/2145		
258851010	**DPE-5_20110831**	EPA 300.0	WETA/2145		
258851001	**EX-1_20110831**	EPA 351.2	WETA/2138		
258851002	**EX-2_20110831**	EPA 351.2	WETA/2138		
258851008	**DPE-1_20110831**	EPA 351.2	WETA/2138		
258851009	**DPE-4_20110831**	EPA 351.2	WETA/2138		
258851010	**DPE-5_20110831**	EPA 351.2	WETA/2138		
258851001	**EX-1_20110831**	EPA 353.2	WETA/2155		
258851002	**EX-2_20110831**	EPA 353.2	WETA/2155		
258851008	**DPE-1_20110831**	EPA 353.2	WETA/2155		
258851009	**DPE-4_20110831**	EPA 353.2	WETA/2155		
258851010	**DPE-5_20110831**	EPA 353.2	WETA/2155		
258851001	**EX-1_20110831**	EPA 410.4	WETA/2130		
258851002	**EX-2_20110831**	EPA 410.4	WETA/2130		
258851008	**DPE-1_20110831**	EPA 410.4	WETA/2130		
258851009	**DPE-4_20110831**	EPA 410.4	WETA/2150		
258851010	**DPE-5_20110831**	EPA 410.4	WETA/2130		
258851001	**EX-1_20110831**	SM 4500-P E	WETA/2156		
258851002	**EX-2_20110831**	SM 4500-P E	WETA/2156		
258851008	**DPE-1_20110831**	SM 4500-P E	WETA/2156		
258851009	**DPE-4_20110831**	SM 4500-P E	WETA/2156		
258851010	**DPE-5_20110831**	SM 4500-P E	WETA/2156		
258851001	**EX-1_20110831**	SM 4500-P E	WETA/2128		

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2611117
Pace Project No.: 258851

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
258851002	**EX-2_20110831**	SM 4500-P E	WETA/2128		
258851008	**DPE-1_20110831**	SM 4500-P E	WETA/2128		
258851009	**DPE-4_20110831**	SM 4500-P E	WETA/2128		
258851010	**DPE-5_20110831**	SM 4500-P E	WETA/2128		
258851001	**EX-1_20110831**	SM 5310C	WETA/2134		
258851002	**EX-2_20110831**	SM 5310C	WETA/2134		
258851008	**DPE-1_20110831**	SM 5310C	WETA/2134		
258851009	**DPE-4_20110831**	SM 5310C	WETA/2134		
258851010	**DPE-5_20110831**	SM 5310C	WETA/2134		
258851001	**EX-1_20110831**	SM 4500-NO2 B	WETA/2127		
258851002	**EX-2_20110831**	SM 4500-NO2 B	WETA/2127		
258851008	**DPE-1_20110831**	SM 4500-NO2 B	WETA/2127		
258851009	**DPE-4_20110831**	SM 4500-NO2 B	WETA/2127		
258851010	**DPE-5_20110831**	SM 4500-NO2 B	WETA/2127		

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

Analytical Report

Pace Analytical Services, Inc.	Client Project ID: #2611117; WG_Q_201108	Date Sampled: 08/15/11
940 S. Harney Street		Date Received: 08/15/11
	Client Contact: Regina Ste. Marie	Date Reported: 08/18/11
Seattle, WA 98108	Client P.O.:	Date Completed: 08/18/11

WorkOrder: 1108459

August 18, 2011

Dear Regina:

Enclosed within are:

1) The results of the **5** analyzed samples from your project: **#2611117; WG_Q_201108,**
2) A QC report for the above samples,
3) A copy of the chain of custody, and
4) An invoice for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits. If you have any questions or concerns, please feel free to give me a call. Thank you for choosing McCampbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius
Laboratory Manager
McCampbell Analytical, Inc.

The analytical results relate only to the items tested.

1108159

COP ELT CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1
Cooler # ____ of ____

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McCampbell

3Q 2011 GW Event

Required Lab Information		Required Project Information		Required Invoice Information	
Lab Name	Pace-Seattle	Site ID # 2611117	Task: WG_Q_201108	Send Invoice to:	David Sowle
Address:		AnteaGrp proj#		Address:	11050 White Rock Road, Suite 110
940 S. Harney Street Seattle WA 98108		Site Address	7210 BANCROFT AVE	City/State	Rancho Cordova CA 95670 Phone #: 1-800-477-7411
Lab PM:	Regina Ste. Marie	City OAKLAND	State CA 94605	Reimbursement project?	Non-reimbursement project? Y Mark one
Phone/Fax	P: 206-957-2433 F: 206-767-5063	AG PM Name:	Doug Umland	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	dan.keltner@anteagroup.com
Applicable Lab Quote #		AG PM Email:	doug.umland@anteagroup.com	CC Hardcopy report to	

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

Valid Matrix Codes: MATRIX — DRINKING WATER DW, GROUND WATER WG, WASTE WATER WW, FREE PRODUCT LF, SOIL SO, OIL OL, WIPE WP, AMBIENT AIR AA, SVE AIR, SOIL GAS; MATRIX — WATER W, SURFACE WATER WS, WATER QC WQ, SLUDGE SL, SEDIMENT SD, OTHER OT, ANIMAL TISSUE TA

SAMPLE ID — One Character per box. (A-Z, 0-9 / , -) Samples IDs MUST BE UNIQUE

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	SAMPLE DATE	SAMPLE TIME	# OF CONTAINERS	FIELD FILTERED? (Y/N)	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	200.8 Total Chromium	218.6 Hexavalent Chrom	Cr+3 Calculation	Comments/Lab Sample I.D.
1	EX-1_20110831	WG	G	8-15-11	1530	2	N			X			X			X	X	X	
2	EX-2_20110831	WG	G	8-15-11	1015	2	N			X			X			X	X	X	
3	DPE-1_20110831	WG	G	8-15-11	1355	2	N			X			X			X	X	X	
4	DPE-4_20110831	WG	G	8-15-11	1505	2	N			X			X			X	X	X	
5	DPE-5_20110831	WG	G	8-15-11	1440	2	N			X			X			X	X	X	
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			

Additional Comments/Special Instructions:

Global ID: T0600100201

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	Sample Receipt Conditions			
[signature] / BTS	8/15/11	1650	[signature]	8/15/11	1650		Y / N	Y / N	Y / N
[signature]	8/15/11	1815	[signature]	8/15/11	1815		Y / N	Y / N	Y / N
							Y / N	Y / N	Y / N
							Y / N	Y / N	Y / N

SHIPPING METHOD: (mark as appropriate) — UPS COURIER FEDEX US MAIL

SAMPLER NAME AND SIGNATURE — PRINT Name of SAMPLER: ____ SIGNATURE of SAMPLER: ____ DATE Signed: ____ Time: ____

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

Xinogen Environmental Alliance

ICE/t° 4.8
GOOD CONDITION ____
HEAD SPACE ABSENT ____
DECHLORINATED IN LAB ____
APPROPRIATE CONTAINERS ____
PRESERVED IN LAB ____
PRESERVATION ____ VOAS | O&G | METALS | OTHER

McCampbell Analytical, Inc.
1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1108459 **ClientCode: PASS**

☐ WaterTrax ☐ WriteOn ☑ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Report to:
Regina Ste. Marie
Pace Analytical Services, Inc.
940 S. Harney Street
Seattle, WA 98108
(206) 957-2427 FAX:

Email: Regina.SteMarie@pacelabs.com
cc:
PO:
ProjectNo: #2611117; WG_Q_201108

Bill to:
Accounts Payable
Pace Analytical Services, Inc.
940 S. Harney Street
Seattle, WA 98108

Requested TAT: **5 days**

Date Received: **08/15/2011**
Date Printed: **08/15/2011**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
1108459-001	EX-1_20110831	Water	8/15/2011 15:30	☐	B	A	A									
1108459-002	EX-2_20110831	Water	8/15/2011 10:15	☐	B	A										
1108459-003	DPE-1_20110831	Water	8/15/2011 13:55	☐	B	A										
1108459-004	DPE-4_20110831	Water	8/15/2011 15:05	☐	B	A										
1108459-005	DPE-5_20110831	Water	8/15/2011 14:40	☐	B	A										

Test Legend:

1	218_6_W	2	METALSMS_W	3	PREDF REPORT	4		5	
6		7		8		9		10	
11		12							

Prepared by: Zoraida Cortez

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

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Telephone: 877-252-9262 Fax: 925-252-9269

Sample Receipt Checklist

Client Name: **Pace Analytical Services, Inc.**
Date and Time Received: **8/15/2011 6:58:55 PM**

Project Name: **#2611117; WG_Q_201108**
Checklist completed and reviewed by: Zoraida Cortez

WorkOrder N°: **1108459** Matrix: Water
Carrier: Derik Cartan (MAI Courier)

Chain of Custody (COC) Information

Chain of custody present?	Yes ☑	No ☐
Chain of custody signed when relinquished and received?	Yes ☑	No ☐
Chain of custody agrees with sample labels?	Yes ☑	No ☐
Sample IDs noted by Client on COC?	Yes ☑	No ☐
Date and Time of collection noted by Client on COC?	Yes ☑	No ☐
Sampler's name noted on COC?	Yes ☑	No ☐

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	NA ☑
Shipping container/cooler in good condition?	Yes ☑	No ☐	
Samples in proper containers/bottles?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature	Cooler Temp: 4.8°C		NA ☐
Water - VOA vials have zero headspace / no bubbles?	Yes ☐	No ☐	No VOA vials submitted ☑
Sample labels checked for correct preservation?	Yes ☑	No ☐	
Metal - pH acceptable upon receipt (pH<2)?	Yes ☐	No ☑	NA ☐
Samples Received on Ice?	Yes ☑	No ☐	

(Ice Type: WET ICE)

** NOTE: If the "No" box is checked, see comments below.*

Client contacted: Date contacted: Contacted by:

Comments: Sample 005 had to be preserved in house to pH<2 for total metals.

McCampbell Analytical, Inc.
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Telephone: 877-252-9262 Fax: 925-252-9269

Pace Analytical Services, Inc. 940 S. Harney Street Seattle, WA 98108	Client Project ID: #2611117; WG_Q_201108	Date Sampled: 08/15/11
		Date Received: 08/15/11
	Client Contact: Regina Ste. Marie	Date Extracted: 08/16/11
	Client P.O.:	Date Analyzed: 08/16/11

Hexachrome by IC*

Analytical Method: E218.6 Work Order: 1108459

Lab ID	Client ID	Matrix	Hexachrome	DF	Comments
1108459-001B	EX-1_20110831	W	ND	1	
1108459-002B	EX-2_20110831	W	ND	1	
1108459-003B	DPE-1_20110831	W	ND	1	
1108459-004B	DPE-4_20110831	W	ND	1	
1108459-005B	DPE-5_20110831	W	ND	1	

Reporting Limit for DF = 1; ND means not detected at or above the reporting limit	W	0.2 µg/L	
	S	NA	

* water samples are reported in µg/L.

N/A means surrogate not applicable to this analysis; # means surrogate diluted out of range or surrogate coelutes with another peak.

%SS = Percent Recovery of Surrogate Standard
DF = Dilution Factor

DHS ELAP Certification 1644

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

Pace Analytical Services, Inc.	Client Project ID: #2611117; WG_Q_201108	Date Sampled: 08/15/11
		Date Received: 08/15/11
940 S. Harney Street	Client Contact: Regina Ste. Marie	Date Extracted: 08/15/11
Seattle, WA 98108	Client P.O.:	Date Analyzed: 08/16/11

Metals*

Extraction method: E200.8 Analytical methods: E200.8 Work Order: 1108459

Lab ID	Client ID	Matrix	Extraction Type	Chromium	DF	% SS	Comments
1108459-001A	EX-1_20110831	W	TOTAL	2.9	1	95	
1108459-002A	EX-2_20110831	W	TOTAL	2.2	1	94	
1108459-003A	DPE-1_20110831	W	TOTAL	0.66	1	96	
1108459-004A	DPE-4_20110831	W	TOTAL	4.0	1	97	
1108459-005A	DPE-5_20110831	W	TOTAL	28	1	96	

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	TOTAL	0.5	µg/L
	S	TOTAL	NA	mg/Kg

*water samples are reported in µg/L, product/oil/non-aqueous liquid samples and all TCLP / WET / DI WET / SPLP extracts are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter.

means surrogate diluted out of range; ND means not detected above the reporting limit/method detection limit; N/A means not applicable to this sample or instrument.

TOTAL = Hot acid digestion of a representative sample aliquot.
TRM = Total recoverable metals is the "direct analysis" of a sample aliquot taken from its acid-preserved container.
DISS = Dissolved metals by direct analysis of 0.45 µm filtered and acidified sample.

%SS = Percent Recovery of Surrogate Standard
DF = Dilution Factor

DHS ELAP Certification 1644

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

QC SUMMARY REPORT FOR E218.6

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 60397 WorkOrder: 1108459

EPA Method: E218.6 **Extraction: E218.6** **Spiked Sample ID: 1108405-001A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Hexachrome	0.080	25	101	99	1.68	98.4	97.9	0.489	90 - 110	10	90 - 110	10

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 60397 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1108459-001B	08/15/11 3:30 PM	08/16/11	08/16/11 4:25 PM	1108459-002B	08/15/11 10:15 AM	08/16/11	08/16/11 4:46 PM
1108459-003B	08/15/11 1:55 PM	08/16/11	08/16/11 5:06 PM	1108459-004B	08/15/11 3:05 PM	08/16/11	08/16/11 5:26 PM
1108459-005B	08/15/11 2:40 PM	08/16/11	08/16/11 5:46 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS ELAP Certification 1644 QA/QC Officer

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

QC SUMMARY REPORT FOR E200.8

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 60434 WorkOrder: 1108459

EPA Method: E200.8 **Extraction: E200.8** **Spiked Sample ID: 1108428-002A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Chromium	ND	10	90.5	86.9	4.09	93.5	90.8	2.97	70 - 130	20	85 - 115	20
%SS:	95	750	96	95	1.19	95	94	1.17	70 - 130	20	70 - 130	20

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 60434 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1108459-001A	08/15/11 3:30 PM	08/15/11	08/16/11 4:31 PM	1108459-002A	08/15/11 10:15 AM	08/15/11	08/16/11 4:38 PM
1108459-003A	08/15/11 1:55 PM	08/15/11	08/16/11 5:06 PM	1108459-004A	08/15/11 3:05 PM	08/15/11	08/16/11 5:13 PM
1108459-005A	08/15/11 2:40 PM	08/15/11	08/16/11 5:20 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not applicable to this method.

NR = matrix interference and/or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS ELAP Certification 1644 QA/QC Officer

20110831 2611117 WG_Q_201108 BO

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COP ELT CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1
Cooler # ____ of ____

PACE SEATTLE

21889 Line 3
~~21835 Line 3/4~~ MB 081611

3Q 2011 GW Event

258851

Required Lab Information:

Lab Name:	Pace-Seattle
Address:	940 S. Harney Street Seattle WA 98108
Lab PM:	Regina Ste. Marie
Phone/Fax:	P: 206-957-2433 F: 206-767-5063
Lab PM email	Regina.SteMarie@pacelabs.com
Applicable Lab Quote #:	

Required Project Information:

Site ID #:	2611117
Task:	WG_Q_201108
AnteaGrp proj#	
Site Address	7210 BANCROFT AVE
City	OAKLAND
State	CA 94605
AG PM Name:	Doug Umland
Phone/Fax:	P: 1-800-477-7411 F: 408-225-8506
AG PM Email:	doug.umland@anteagroup.com

Required Invoice Information:

Send Invoice to:	David Sowle
Address:	11050 White Rock Road, Suite 110
City/State	Rancho Cordova CA 95670
Phone #:	1-800-477-7411
Reimbursement project?	
Non-reimbursement project?	Y
Mark one	
Send EDD to	copeltdata@intelligentehs.com
CC Hardcopy report to	dan.keltner@anteagroup.com
CC Hardcopy report to	

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

Valid Matrix Codes

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

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / ,-) Samples IDs MUST BE UNIQUE)	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	SAMPLE DATE	SAMPLE TIME	#OF CONTAINERS	FIELD FILTERED? (Y/N)	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Requested Analyses: 8015TPHGRO	8260BtexMTBETOXYCA	RSK175 Methane	300 Sulfate	4500-S2E Sulfide	6010 Total Iron	353.2 Nitrate	352.2 Nitrite	5210B Biological Oxyge	410.4 Chemical Oxygen	Comments/Lab Sample I.D.
1	EX-1_20110831	WG	G	8.15.11	1530	10	N				X					X	X	X	X	X	X	X	X	X	X	7 Oxy's = DIPE, TBA, TAME, ETBE, 1,2-DCA, EDB, Ethanol
2	EX-2_20110831	WG	G	8.15.11	1015	6	N				X					X	X	X	X	X	X	X	X	X	X	
3	MW-10_20110831	WG	G	8.15.11	1120	6	N				X					X	X									
4	MW-11_20110831	WG	G	8.15.11	1215	6	N				X					X	X									
5	MW-4_20110831	WG	G	8.15.11	1240	6	N				X					X	X									
6	MW-7_20110831	WG	G	8.15.11	1035	6	N				X					X	X									
7	~~MW-9_20110831~~	WG														X	X									
8	TB1_20110831	W	G	8.15.11	0800	4	N				X					X	X									
9	DPE-1_20110831	WG	G	8.15.11	1355	6	N				X					X	X	X	X	X	X	X	X	X	X	
10	DPE-4_20110831	WG	G	8.15.11	1505	6	N				X					X	X	X	X	X	X	X	X	X	X	
11	DPE-5_20110831	WG	G	8.15.11	1440	6	N				X					X	X	X	X	X	X	X	X	X	X	
12																										
13																										

Additional Comments/Special Instructions:

Global ID: T0600100201

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
[signature] /BTS	8.15.11	1655			
Fedex	081611	0855	Jyothi Sway/PACE	081611	0855

Sample Receipt Conditions

Temp in °C	Samples on Ice?	Sample intact?	Trip Blank?
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
1.0	(Y)/N	(Y)/N	(Y)/N
1.4	(Y)/N	(Y)/N	(Y)/N

SHIPPING METHOD: (mark as appropriate) UPS COURIER FEDEX US MAIL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Ben Powell

SIGNATURE of SAMPLER: [signature]

DATE Signed: 8.15.11 Time: 1655

Inogen

anteagroup

COP ELT CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1
Cooler # ____ of ____

PACE SEATTLE

3Q 2011 GW Event

258851

Required Lab Information:

Lab Name:	Pace-Seattle
Address:	940 S. Harney Street Seattle WA 98108
Lab PM:	Regina Ste. Marie
Phone/Fax:	P: 206-957-2433 F: 206-767-5063
Lab PM email:	Regina.SteMarie@pacelabs.com
Applicable Lab Quote #:	

Required Project Information:

Site ID #:	2611117
Task:	WG_Q_201108
AnteaGrp proj#:	
Site Address:	7210 BANCROFT AVE
City:	OAKLAND
State:	CA 94605
AG PM Name:	Doug Umland
Phone/Fax:	P: 1-800-477-7411 F: 408-225-8506
AG PM Email:	doug.umland@anteagroup.com

Required Invoice Information:

Send Invoice to:	David Sowle
Address:	11050 White Rock Road, Suite 110
City/State:	Rancho Cordova CA 95670
Phone #:	1-800-477-7411
Reimbursement project?	
Non-reimbursement project?	Y
Mark one	
Send EDD to	copeltdata@intelligentehs.com
CC Hardcopy report to	dan.keltner@anteagroup.com
CC Hardcopy report to	

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

Valid Matrix Codes: MATRIX / MATRIX

ITEM #	SAMPLE ID (A-Z, 0-9 / , -) IDs MUST BE UNIQUE — One Character per box. Samples	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	SAMPLE DATE	SAMPLE TIME	# OF CONTAINERS	FIELD FILTERED? (Y/N)	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Requested Analyses: 5310C Total Organic C*	351.1 Total Kjeldhal Nit	350.1 Ammonia	365.1 Ortho-Phosphorus	365.4 Total Phosphorus	300 Chloride	Comments/Lab Sample I.D.
1	EX-1_20110831	WG	G	8.15.11	1530	11	N	X	X	X	X				X	X	X	X	X	X	X	Fe= 1.4 mg/L
2	EX-2_20110831	WG	G	8.15.11	1015	11	N	X	X	X	X				X	X	X	X	X	X	X	Fe= 0.0 mg/L
3	DPE-1_20110831	WG	G	8.15.11	13 55	11	N	X	X	X	X				X	X	X	X	X	X	X	Fe= 1.6 mg/L
4	DPE-4_20110831	WG	G	8.15.11	1505	11	N	X	X	X	X				X	X	X	X	X	X	X	Fe= 7.0 mg/L
5	DPE-5_20110831	WG	G	8.15.11	1440	11	N	X	X	X	X				X	X	X	X	X	X	X	Fe= 6.5 mg/L
6																						
7																						
8																						
9																						
10																						
11																						
12																						
13																						

Additional Comments/Special Instructions:

Global ID: T0600100201

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
B Dell / BTS	8/15/11	1655			
Fedex	08161	0855	Jyothi Swaroop / PACE	08161	0855

Sample Receipt Conditions

Temp in °C	Samples on Ice?	Sample intact?	Trip Blank?
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
1.0	(Y)/N	(Y)/N	(Y)/N
1.4	(Y)/N	(Y)/N	(Y)/N

SHIPPING METHOD: (mark as appropriate)
UPS COURIER FEDEX
US MAIL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Ben Pane II
SIGNATURE of SAMPLER: B Dell
DATE Signed: 8.15.11 Time: 1655

Inogen Environmental Alliance

Sample Container Count

CLIENT: Antea

COC PAGE 1 of 1

COC ID# —

258851

Sample Line Item	VG9H	AG1H	AG1U	BG1H	BP1U	BP2U	BP3U	~~BP2N~~ BP3N	BP2S	WGFU	WGKU	VSG	DG9V	BP2Z	Comments
1	10				2			1 x2	2 x2			3	2	1 >10	
2	6				2			1 x2	2 x2			3	2	1 >10	
3	↓														
4															
5	↓														
6	6														
7	—														
8	4														
9	6				2			1 x2	2 x2			3	2	1 >10	
10	6				2			1 x2	2 x2			3	2	1 >6	
11	6				2			1 x2	2 x2			3	2	pH>10	
12															Trip Blank? Yes

AG1H	1 liter HCL amber glass		BP2S	500mL H2SO4 plastic	JGFU	4oz unpreserved amber wide
AG1U	1liter unpreserved amber glass		BP2U	500mL unpreserved plastic	R	terra core kit
AG2S	500mL H2SO4 amber glass		BP2Z	500mL NaOH, Zn Ac	U	Summa Can
AG2U	500mL unpreserved amber glass		BP3C	250mL NaOH plastic	VG9H	40mL HCL clear vial
AG3S	250mL H2SO4 amber glass		BP3N	250mL HNO3 plastic	VG9T	40mL Na Thio. clear vial
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 glass vial preweighted (EPA 5035)
BP1N	1 liter HNO3 plastic		DG9B	40mL Na Bisulfate amber vial	VSG	Headspace septa vial & HCL
BP1S	1 liter H2SO4 plastic		DG9H	40mL HCL amber voa vial	WGFU	4oz clear soil jar
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	ZPLC	Ziploc Bag
BP2N	500mL HNO3 plastic		DG9U	40mL unpreserved **amber** vial		
BP2O	500mL NaOH plastic		I	Wipe/Swab		

Sample Condition Upon Receipt

Pace Analytical

Client Name: Antea Project # 258851

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Tracking #: 8756 1770 0550

Custody Seal on Cooler/Box Present: ☑ Yes ☐ No Seals intact: ☑ Yes ☐ No

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other _____ Temp. Blank Yes ____ No ____

Thermometer Used 132013 or 101731962 or 226099 Type of Ice: Wet Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature 1.0°C, 1.4°C Biological Tissue is Frozen: Yes No

Temp should be above freezing ≤ 6°C

Date and Initials of person examining contents: NJS 081611

Comments:

Chain of Custody Present:	☑Yes	☐No	☐N/A	1.
Chain of Custody Filled Out:	☑Yes	☐No	☐N/A	2.
Chain of Custody Relinquished:	☑Yes	☐No	☐N/A	3.
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☑Yes	☐No	☐N/A	5.
Short Hold Time Analysis (<72hr):	☑Yes	☐No	☐N/A	6. BOD, NO_2, Ortho-P
Rush Turn Around Time Requested:	☐Yes	☑No	☐N/A	7.
Follow Up / Hold Analysis Requested:	☐Yes	☑No	☐N/A	8.
Sufficient Volume:	☑Yes	☐No	☐N/A	9.
Correct Containers Used:	☑Yes	☐No	☐N/A	10.
-Pace Containers Used:	☑Yes	☐No	☐N/A	
Containers Intact:	☑Yes	☐No	☐N/A	11.
Filtered volume received for Dissolved tests	☐Yes	☐No	☑N/A	12.
Sample Labels match COC:	☑Yes	☐No	☐N/A	13.
-Includes date/time/ID/Analysis Matrix: Water				
All containers needing preservation have been checked.	☑Yes	☐No	☐N/A	14.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes	☐No	☐N/A	
Exceptions VOA, coliform, TOC, O&G				Initial when completed / Lot # of added preservative
Samples checked for dechlorination:	☐Yes	☐No	☑N/A	15.
Headspace in VOA Vials (>6mm):	☐Yes	☑No	☐N/A	16.
Trip Blanks Present:	☑Yes	☐No	☐N/A	17.
Trip Blank Custody Seals Present	☑Yes	☐No	☐N/A	
Pace Trip Blank Lot # (if purchased): 072911				

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

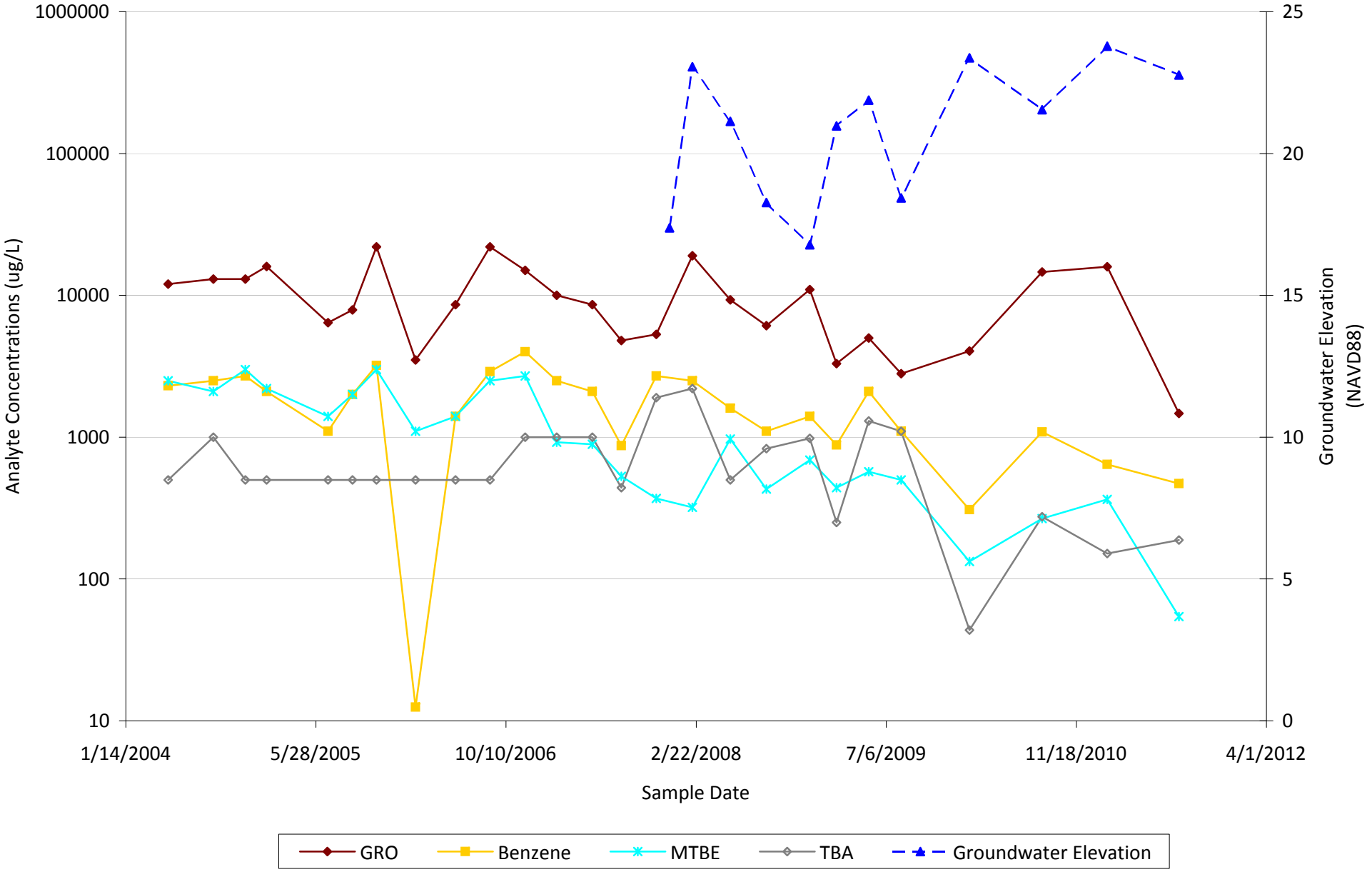
Project Manager Review: RSM **Date:** 08/16/11

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)

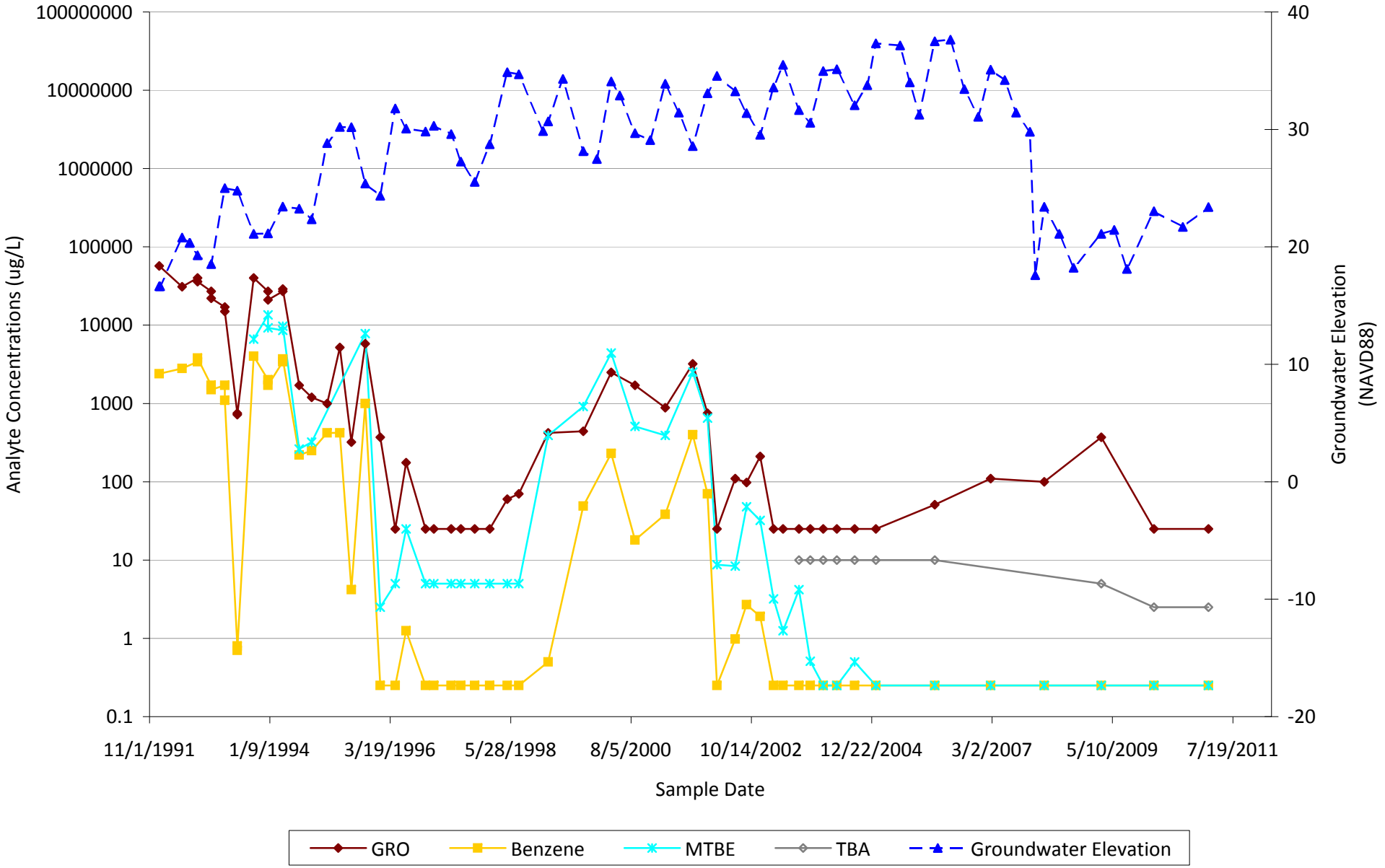
Appendix F

Time Series Graphs

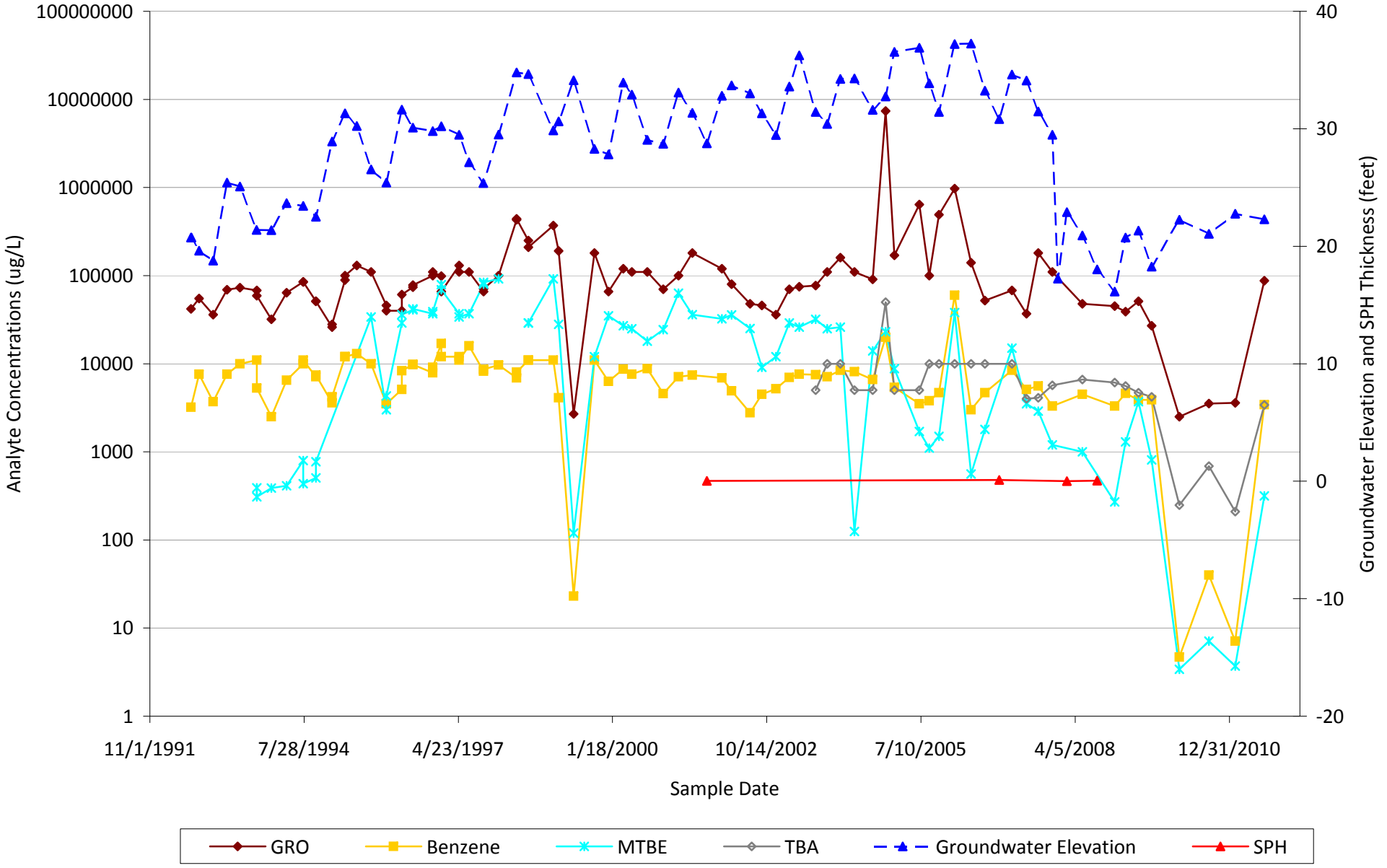
WELL EX-1
CONTAMINANT CONCENTRATIONS AND GROUNDWATER ELEVATION VERSUS TIME
76 (FORMER BP) SERVICE STATION NO. 11117
7210 BANCROFT AVENUE
OAKLAND, CALIFORNIA



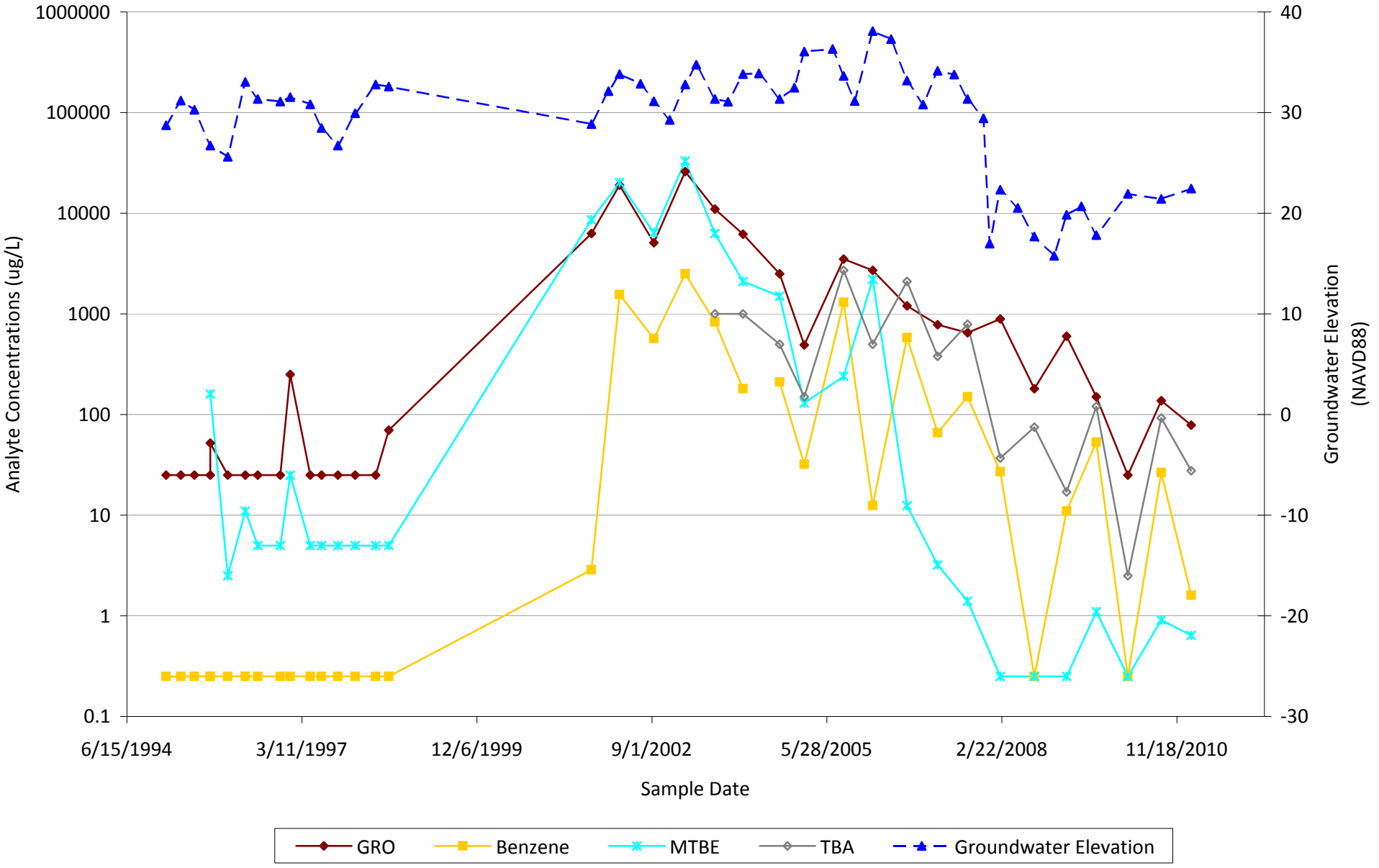
WELL MW-1
CONTAMINANT CONCENTRATIONS AND GROUNDWATER ELEVATION VERSUS TIME
76 (FORMER BP) SERVICE STATION NO. 11117
7210 BANCROFT AVENUE
OAKLAND, CALIFORNIA



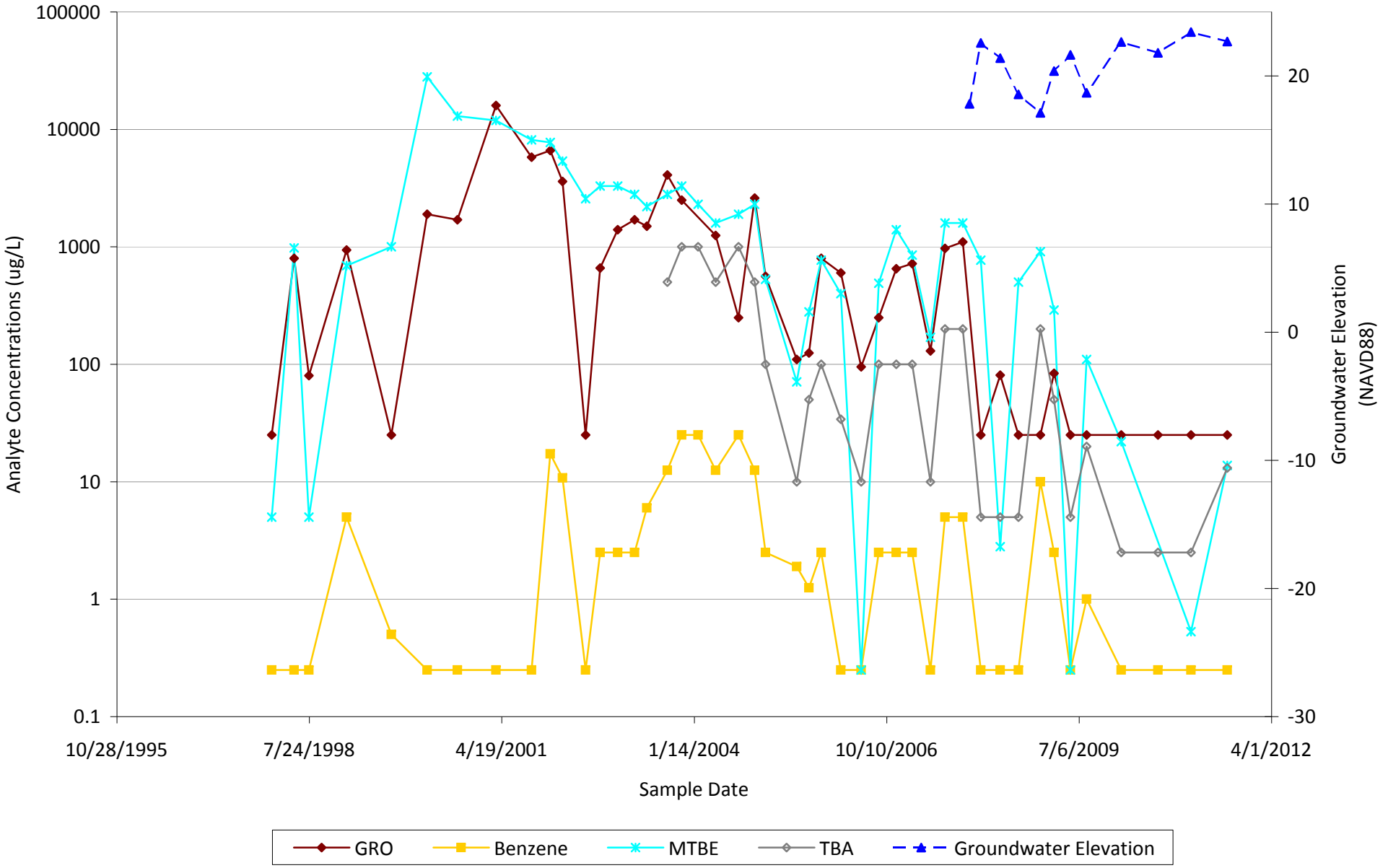
WELL MW-4
CONTAMINANT CONCENTRATIONS AND GROUNDWATER ELEVATION VERSUS TIME
76 (FORMER BP) SERVICE STATION NO. 11117
7210 BANCROFT AVENUE
OAKLAND, CALIFORNIA



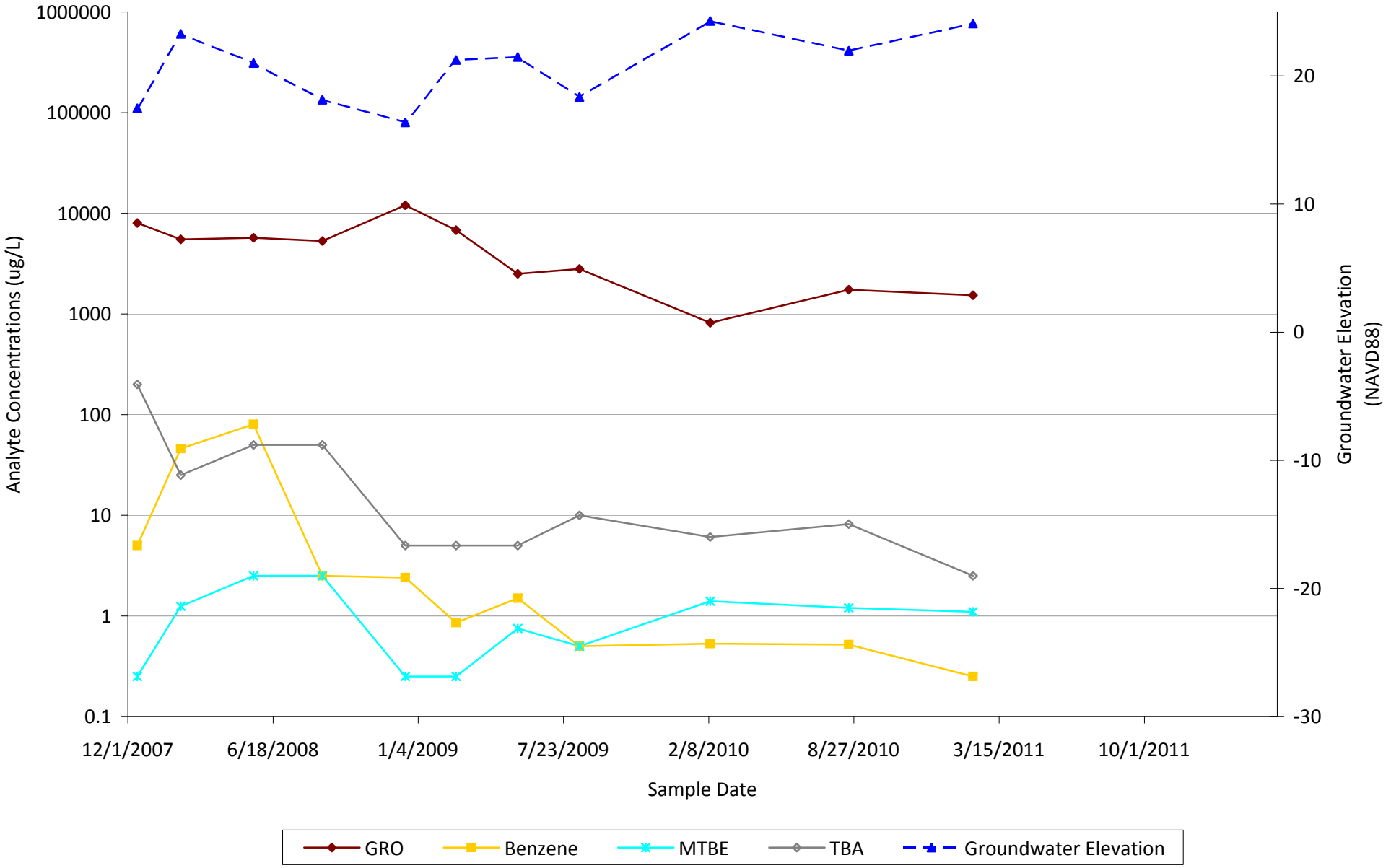
WELL MW-9
CONTAMINANT CONCENTRATIONS AND GROUNDWATER ELEVATION VERSUS TIME
76 (FORMER BP) SERVICE STATION NO. 11117
7210 BANCROFT AVENUE
OAKLAND, CALIFORNIA



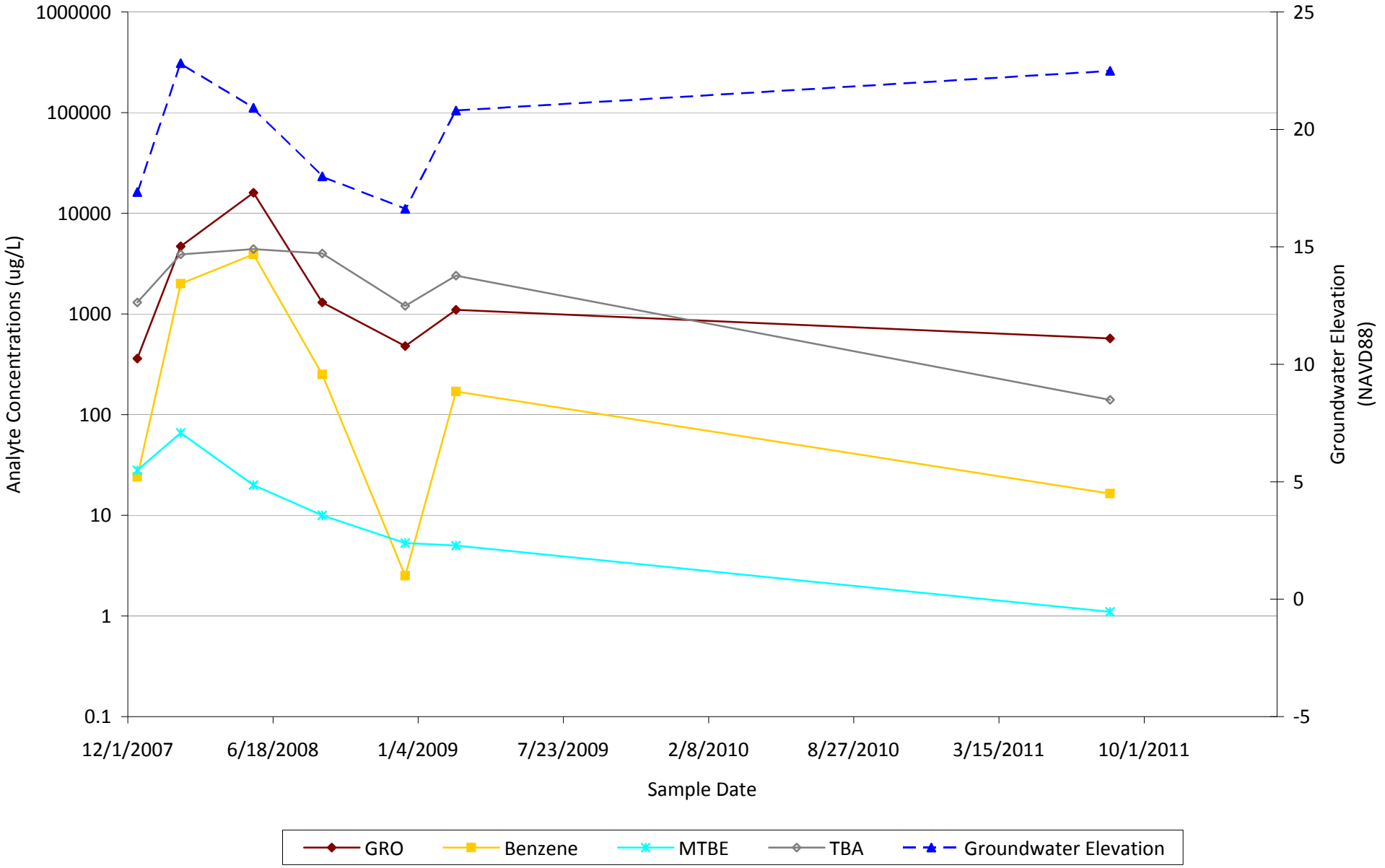
WELL MW-10
CONTAMINANT CONCENTRATIONS AND GROUNDWATER ELEVATION VERSUS TIME
76 (FORMER BP) SERVICE STATION NO. 11117
7210 BANCROFT AVENUE
OAKLAND, CALIFORNIA



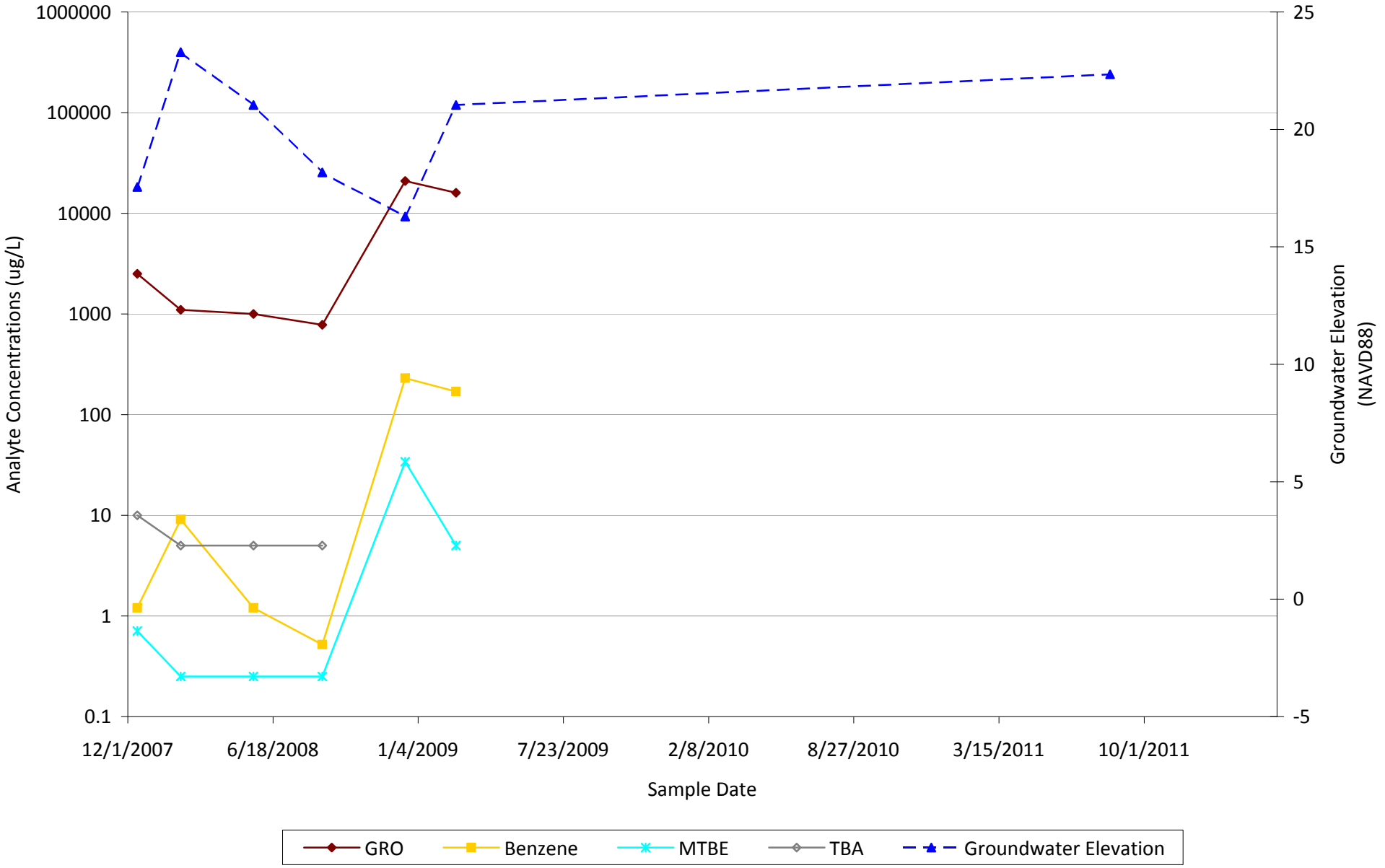
WELL MW-11
CONTAMINANT CONCENTRATIONS AND GROUNDWATER ELEVATION VERSUS TIME
76 (FORMER BP) SERVICE STATION NO. 11117
7210 BANCROFT AVENUE
OAKLAND, CALIFORNIA



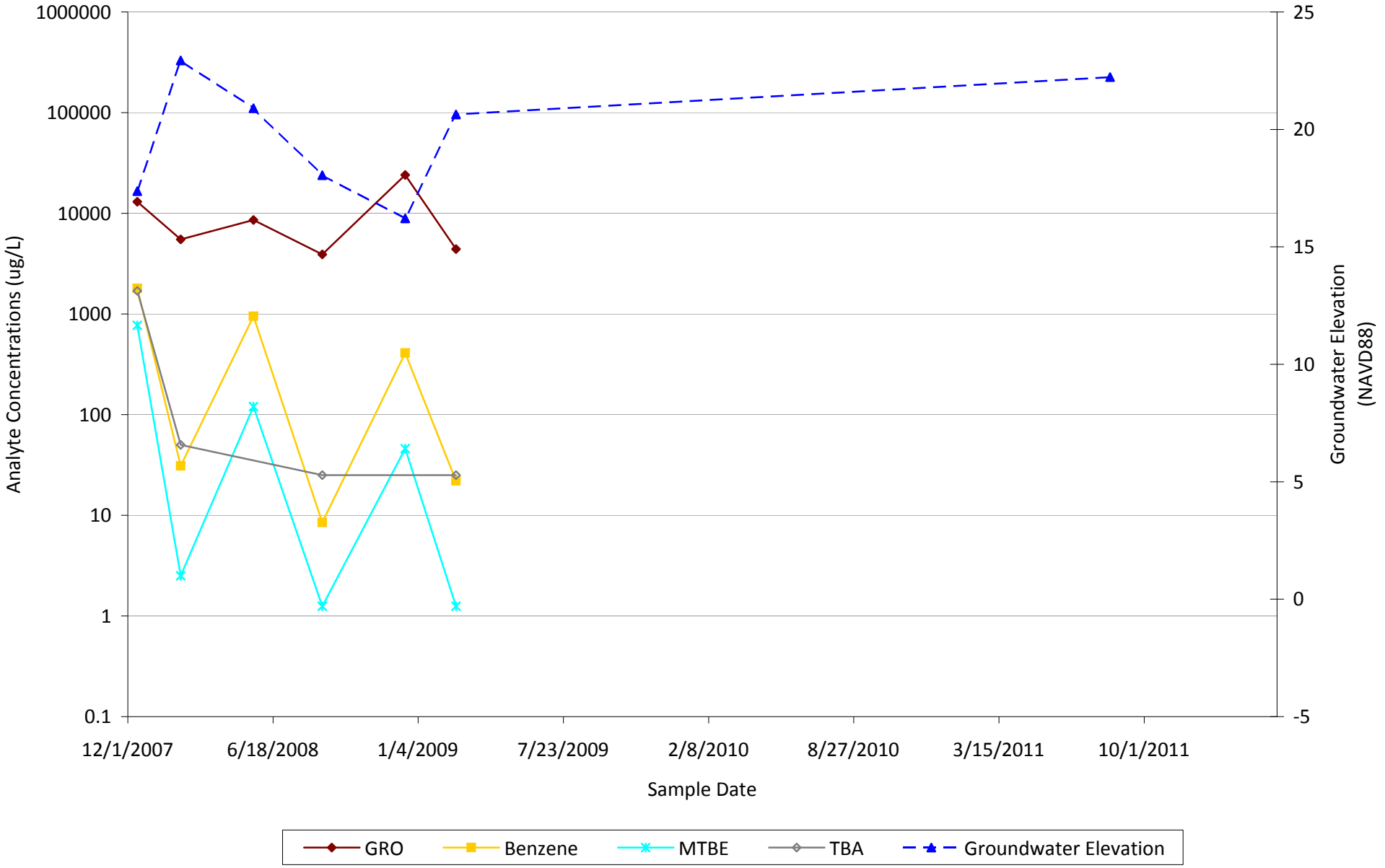
WELL DPE-1
CONTAMINANT CONCENTRATIONS AND GROUNDWATER ELEVATION VERSUS TIME
76 (FORMER BP) SERVICE STATION NO. 11117
7210 BANCROFT AVENUE
OAKLAND, CALIFORNIA



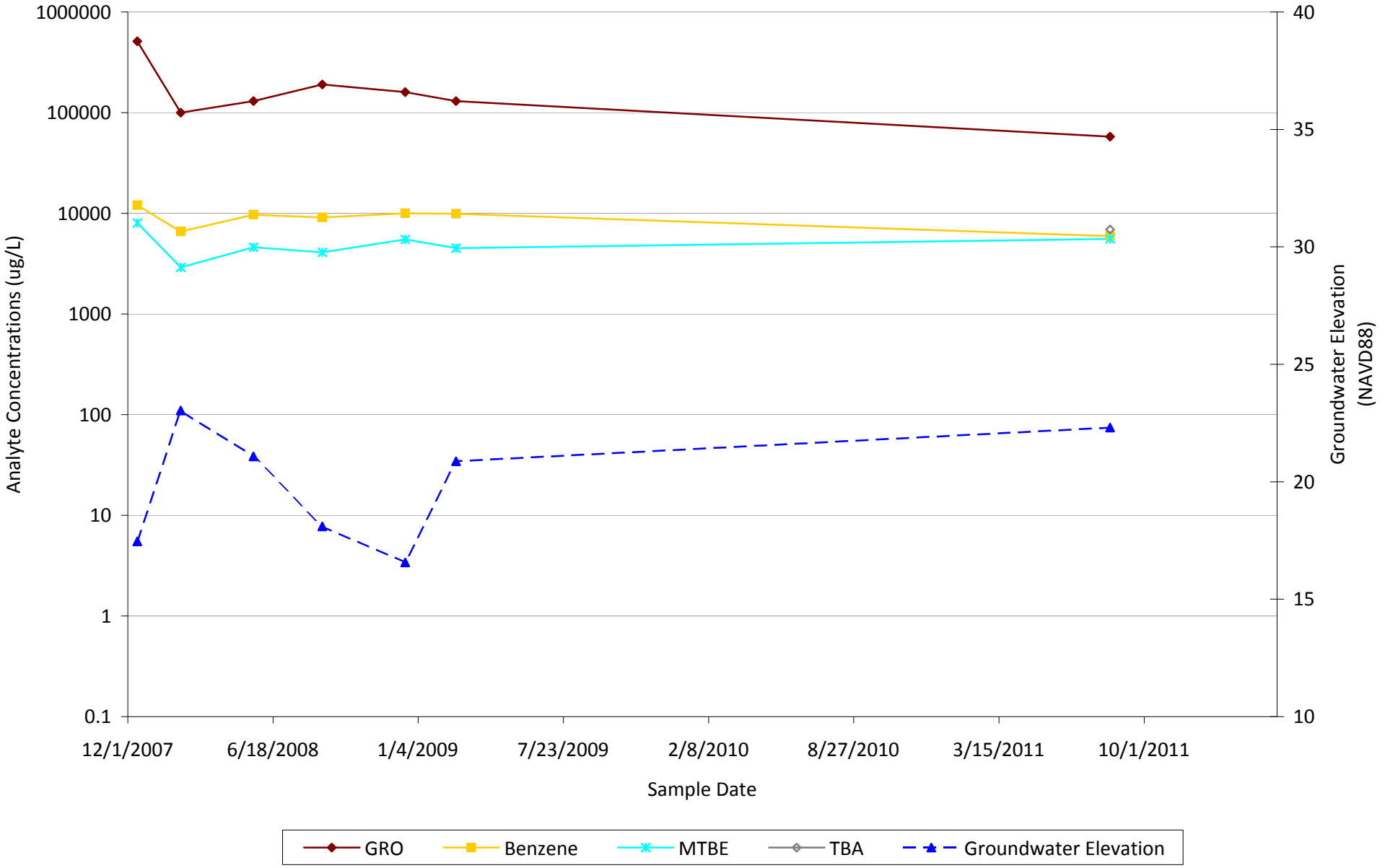
WELL DPE-2
CONTAMINANT CONCENTRATIONS AND GROUNDWATER ELEVATION VERSUS TIME
76 (FORMER BP) SERVICE STATION NO. 11117
7210 BANCROFT AVENUE
OAKLAND, CALIFORNIA



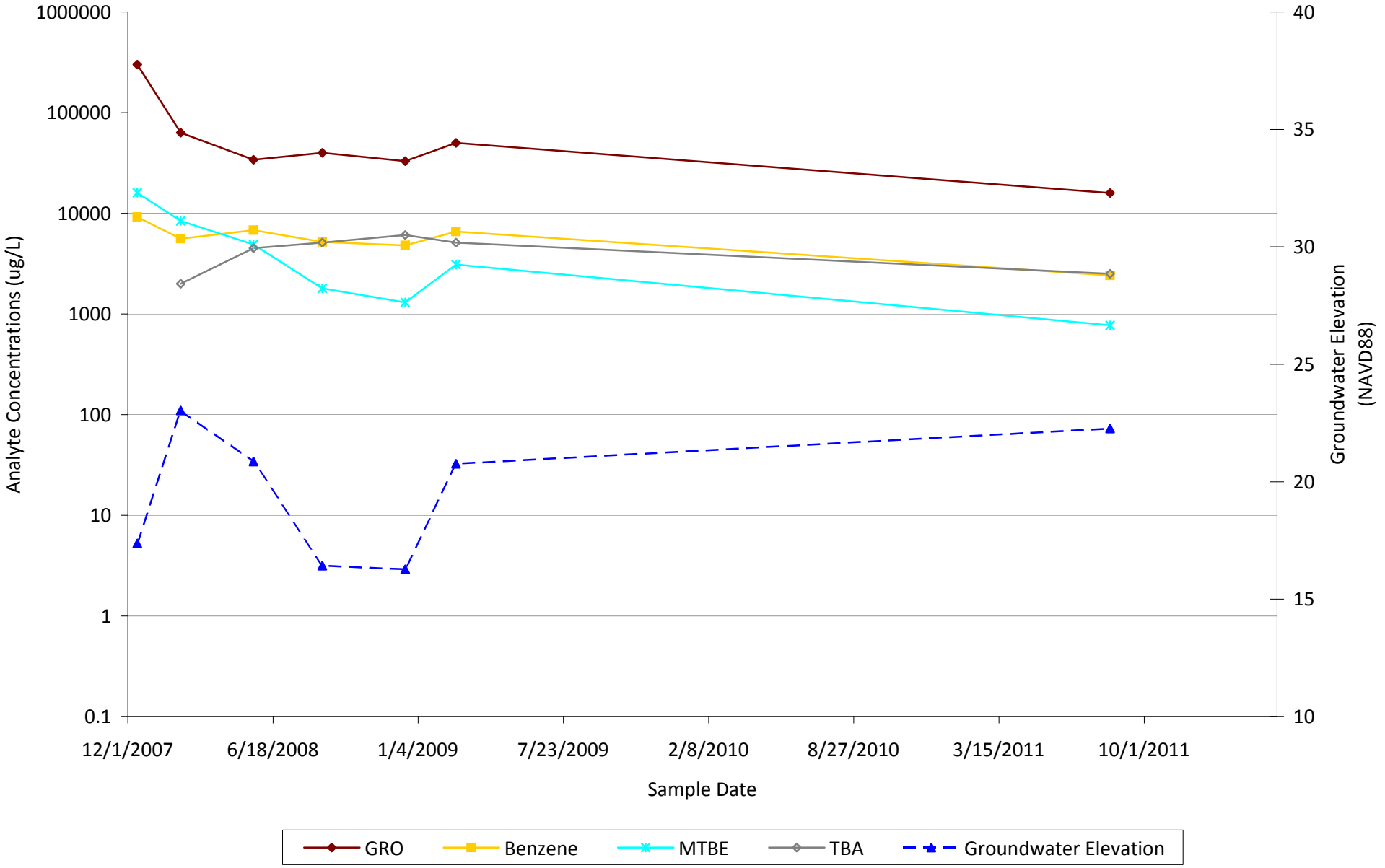
WELL DPE-3
CONTAMINANT CONCENTRATIONS AND GROUNDWATER ELEVATION VERSUS TIME
76 (FORMER BP) SERVICE STATION NO. 11117
7210 BANCROFT AVENUE
OAKLAND, CALIFORNIA



WELL DPE-4
CONTAMINANT CONCENTRATIONS AND GROUNDWATER ELEVATION VERSUS TIME
76 (FORMER BP) SERVICE STATION NO. 11117
7210 BANCROFT AVENUE
OAKLAND, CALIFORNIA



WELL DPE-5
CONTAMINANT CONCENTRATIONS AND GROUNDWATER ELEVATION VERSUS TIME
76 (FORMER BP) SERVICE STATION NO. 11117
7210 BANCROFT AVENUE
OAKLAND, CALIFORNIA



Appendix G

Non-Hazardous Waste Manifests

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.: N/A

Manifest Document No.: 2101117-0211

2. Page 1 of 1

3. Generator's Name and Mailing Address:
POWER QUALITY & ELECTRICAL SYS.
TEJINDAR SINGH
7210 BANCROFT AVE
OAKLAND, CA 94605

4. Generator's Phone (510) 553-0107

SITE Q101117
7210 BANCROFT AVE
OAKLAND, CA 94605

5. Transporter 1 Company Name: BLAINE TECH SERVICES

6. US EPA ID Number:

A. State Transporter's ID:

B. Transporter 1 Phone: 310-885-4455

7. Transporter 2 Company Name:

8. US EPA ID Number:

C. State Transporter's ID:

D. Transporter 2 Phone:

9. Designated Facility Name and Site Address:
SEAPORT ENVIRONMENTAL
700 SEAPORT BLVD
REDWOOD CITY, CA 940163

10. US EPA ID Number: CAD 000013572

E. State Facility's ID:

F. Facility's Phone: 650-364-1024

11. WASTE DESCRIPTION	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. Non hazardous waste liquid	1	TT	165	G
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above

H. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
Wear protective equipment while handling
Weights and volumes are approximate
24hr emergency phone number (310) 885-4455
Approval Number: 650-1049
Direct Bill Blaine Tech Services
Blaine Tech PO #: MW-031611-FS1

GENERATOR

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.

Printed/Typed Name: JOCELYN MENDEZ (CANTEX GROUP) ON BEHALF OF POWERQUALITY

Signature: Jocelyn Mendez

Date: Month 1 Day 24 Year 11

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Ben Panell (Blaine Tech)

Signature:

Date: Month 2 Day 7 Year 11

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name:

Signature:

Date: Month Day Year

FACILITY

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: Joaquin D Cano

Signature:

Date: Month 03 Day 16 Year 11

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.: n/a
Manifest Document No.: 2011117-0811
2. Page 1 of 1

3. Generator's Name and Mailing Address: Power Quality & Electrical Systems c/o Tejinder Singh 7210 Bancroft Ave. Oakland, CA 94605
Site # 2611117 7210 Bancroft Ave. Oakland, CA 94605

4. Generator's Phone (510) 553-0109

5. Transporter 1 Company Name: Blaine Tech Services
6. US EPA ID Number: —
A. State Transporter's ID: —
B. Transporter 1 Phone: 310-885-4455

7. Transporter 2 Company Name: —
8. US EPA ID Number: —
C. State Transporter's ID: —
D. Transporter 2 Phone: —

9. Designated Facility Name and Site Address: Seaport Environmental 700 Seaport blvd Redwood City, CA 94063
10. US EPA ID Number: 000013572
E. State Facility's ID: —
F. Facility's Phone: 650-364-1024

GENERATOR

11. WASTE DESCRIPTION	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.
a. Non hazardous waste liquid	1	TT	220	G
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above

H. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
Wear protective equipment while handling
Weights and volumes are approximate
24hr emergency phone no. (310) 885-4455
Approval No. 500-1049
Direct bill Blaine Tech
Blaine Tech PO#: [illegible]

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.

(Antea Group)
Printed/Typed Name: Jenilyn Mendes on behalf of power quality & elec. sys
Signature: Jenilyn Mendes
Date: Month 7 Day 19 Year 11

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Ben Powell
Signature: [signature]
Date: Month 8 Day 15 Year 11

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Date: Month Day Year

FACILITY

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: Joaquin D. Camara
Signature: [signature]
Date: Month 09 Day 06 Year 11

NON-HAZARDOUS WASTE