PACIFIC
CONVENIENCE & FUELS LLC

LBermudez@pcandf.com
Direct: 925-931-5760
Fax: 925-905-2746

July 30, 2012

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

RECEIVED

10:08 am, Aug 03, 2012

Alameda County
Environmental Health

Subject: **Quarterly Summary Report, Second Quarter 2012**

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

Dear Mr. Nowell;

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

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

Liz Bermudez
Pacific Convenience & Fuel
7180 Koll Center Parkway, Suite 100
Pleasanton, California 94566
Tel: (925) 931-5760
Fax: (925) 905-2746
lbermudez@pcandf.com

Sincerely,

PACIFIC CONVENIENCE & FUEL

LBermudez

LIZ BERMUDEZ
Senior Paralegal
Division, Unit, or Group

Attachment

Quarterly Summary Report, Second Quarter 2012

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

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

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

GeoTracker Global ID No.T0600101476

Antea Group Project No. I42705191

July 30, 2012

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

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

Table of Contents

Figures

Tables

Appendices

1.0 INTRODUCTION

Antea™Group is pleased to submit this *Quarterly Summary Report, Second Quarter 2012*, for the referenced site in Oakland, California (**Figure 1**). The subject site is an operating 76 station located on the southwestern corner of Hegenberger Road and Edgewater Drive in Oakland, California. Station facilities include three underground storage tanks (USTs), two dispenser islands, a station building, and a carwash. A total of fourteen groundwater monitoring wells are located at or near the site (**Figures 1 and 2**). Please refer to **Appendix A** for additional site information and for the history of environmental investigations and remedial actions.

This report summarizes the data obtained from the recent groundwater monitoring and sampling event conducted on June 11 and 12, 2012. Included herein are site figures, groundwater contaminant data tables, and a discussion of trends. This report has received a technical review by Mr. Dennis Dettloff, California Professional Geologist No. 7480.

1.1 Work Performed [Second Quarter 2012]

1. Antea Group submitted the *Quarterly Summary Report, First Quarter 2011*, dated April 23, 2012 to the Alameda County Health Care Services Agency (ACHCSA).
2. Antea Group submitted the *ISCO Pilot Test Work Plan*, dated May 15, 2012 to the ACHCSA.
3. Blaine Tech Services, Inc. (Blaine Tech) conducted the second quarter 2012 groundwater monitoring and sampling event on June 11 and 12, 2012.

1.2 Work Proposed [Third Quarter 2012]

1. Antea Group will submit the *Quarterly Summary Report, Second Quarter 2012* (contained herein) to the ACHCSA.
2. Blaine Tech will conduct the third quarter 2012 monitoring and sampling event.
3. Antea Group will conduct a pilot test for in-situ remediation as detailed in the work plan submitted to the ACHCSA on May 15, 2012.

2.0 CURRENT PROJECT STATUS

Current phase of project:	Quarterly Groundwater Monitoring
Local Oversight Program (LOP) – Lead agency for cleanup oversight:	Alameda County Health Care Services Agency Case No. RO0000219
Secondary agency(s):	San Francisco Bay Regional Water Quality Control Board
Monitoring well gauging schedule:	Quarterly: MW-3, MW-6 through MW-12, MW-12A, and MW-13 through MW-17
Monitoring well sampling schedule:	Quarterly: MW-6, MW-10, MW-11, MW-12, MW-12A, and MW-13

	through 17 Semi-Annual (second and fourth quarters): MW-3 and MW-7 through MW-9
Total number of monitoring/remediation wells (**Table 1**):	Fourteen (MW-3, MW-6 through MW-12, MW-12A, and MW-13 through MW-17).
Range of well depths (total depth below ground surface, bgs) (**Table 1**):	Wells are set from 13 feet to 34 feet bgs.
Wells with historical measurable LNAPL (light non-aqueous phase liquid):	Former monitoring wells MW-1 and MW-2 and current monitoring well MW-6
Historical depth to water range, in feet below top of casing (BTOC):	Min: 0.07 (MW-9, Q1 2005) Max: 8.42 (MW-6, Q4 2010)
Historical groundwater elevation range (ft) for monitoring wells MW-1 through MW-17	Min: 2.77 (MW-3, Q3 1994) Max: 9.17 (MW-9, Q4 2010)
Local receptors:	See **Appendix A**
Current remediation technique	None

2.1 Regulatory Correspondence

No regulatory correspondence were sent to or received from the ACHCSA during the second quarter 2012.

2.2 Remedial Activities

No remedial activities took place during the second quarter 2012.

2.3 Groundwater Monitoring

During the second quarter 2012 groundwater monitoring and sampling event, fourteen wells were gauged, purged, and sampled by Blaine Tech per standard sampling protocol (**Appendix B**). Copies of Blaine Tech's field data sheets are presented as **Appendix C**. The recent gauging and sampling data are summarized below and in **Table 2.** Historical gauging and sampling data are summarized in **Tables 3, 3a, 3b, and 3c**.

Well gauging and sampling date:	June 11 and 12, 2012
Wells gauged:	MW-3, MW-6 through MW-12, MW-12A, and MW-13 through MW-17
Wells sampled:	MW-3, MW-6through MW-12, MW-12A, and MW-13 through 17
Purge method:	3 well casing volumes via electric, submersible pump
Sample collection method:	Disposable bailers
Groundwater parameters measured (**Attachment C**):	Temperature, pH, Conductivity, Dissolved Oxygen (DO), Oxidation Reduction Potential (ORP), and Turbidity
Wells with measurable LNAPL:	None
Current depth to water range (ft BTOC):	Min: 1.75 (MW-9) Max: 5.73 (MW-13)
Current groundwater elevation range (ft):	Min: 5.35 (MW-13) Max: 9.19 (MW-9)
Change in water depths from previous event	0.03 foot increase

(average change for all gauged wells):	
Groundwater flow direction and gradient in foot per foot (ft/ft):	Southeast at 0.05 ft/ft

2.3.1 Groundwater Flow Gradient and Directional Trends

The second quarter 2012 groundwater monitoring and sampling event was performed by Blaine Tech on June 11 and 12, 2012. The average groundwater elevation decreased 0.03 feet from the March 2012 event. Depth to groundwater in the site monitoring wells ranged from 1.75 feet (MW-9) to 5.73 feet (MW-13) BTOC during the current event. The groundwater flow direction and gradient were interpreted to be to the southeast at 0.05 ft/ft during the current event which is consistent with the historical groundwater flow direction and gradient (**Table 4**).

2.3.2 Groundwater Quality Data

Groundwater samples collected during the second quarter 2012 were submitted with chain-of-custody (COC) documentation to Pace Analytical Services, Inc. (Pace), a state of California Environmental Laboratory Accreditation Program (ELAP) certified laboratory (Certification No. 01153CA). The complete analytical report and Antea Group's laboratory data validation checklist is presented as **Appendix D**. Groundwater samples were analyzed for one or more of the following:

- Total petroleum hydrocarbons as gasoline (TPHg) by CA LUFT Method;
- Diesel Range Organics (DRO) [silica gel treated] by Environmental Protection Agency (EPA) Method 8015B;
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX), methyl tertiary-butyl ether (MTBE), tertiary-butyl alcohol (TBA), and ethanol by EPA Method 8260;
- Iron by EPA Method 6010;
- Sulfate by EPA Method 300.0;
- Nitrogen, Nitrate and Nitrogen, NO_2 plus NO_3 by EPA Method 353.2; and
- Nitrite as N by SM 4500-NO2.

Groundwater analytical results are presented in **Table 2** (current) and **Tables 3, 3a, 3b, and 3c** (historical). The following ranges of contaminant concentrations were reported in the specified site well's groundwater samples collected on June 11 and 12, 2012. Only the reported contaminants are listed in the table below.

Constituents	Number of Reported Samples Above LRL of the Samples Collected	Minimum Reported Concentration, in µg/L (Sample ID)	Maximum Reported Concentration, in µg/L (Sample ID)
TPHg	8 of 14	74.3* (MW-15)	33,400 (MW-6)
DRO	6 of 14	48.1 (MW-16)	47,100 (MW-6)
Benzene	5 of 14	0.79 (MW-10)	2,340 (MW-17)

Toluene	4 of 14	14.0 (MW-14)	123 (MW-17)
Ethylbenzene	4 of 14	24.1 (MW-12)	1,580 (MW-14)
Total Xylenes	4 of 14	68.8 (MW-12)	3,110 (MW-6)
MTBE	9 of 14	0.72 (MW-10)	1,100 (MW-16)
TBA	11 of 14	8.3 (MW-8)	448 (MW-12)
Iron	14 of 14	264 (MW-7)	44,300 (MW-17)
Nitrate as N	3 of 14	88.8 (MW-11)	4,250 (MW-12A)
Nitrite as N	5 of 14	19 (MW-13)	67 (MW-7)
Nitrogen, NO_2 plus NO_3	4 of 14	93.5 (MW-11)	4,260 (MW-12A)
Sulfate	13 of 14	1,110 (MW-6)	2,570,000 (MW-8)

Explanations:
µg/L = Micrograms per liter LRL = Laboratory reporting limit
*=The TPHg result for this sample did not match the pattern of the laboratory standard for gasoline. This is likely due to the presence of MTBE in the sample.

2.2.3 Groundwater Contaminant Trends

During the second quarter 2012, analytical results from the sample collected from monitoring well MW-3 indicated that DRO, MTBE, and TBA increased in concentration and TPHg decreased in concentration. Analytical results from the sample collected from monitoring well MW-6 indicated that TPHg, BTEX, MTBE, and TBA decreased in concentration and DRO increased in concentration. TBA concentrations in monitoring well MW-8 increased. Benzene, MTBE, and TBA concentrations increased in monitoring well MW-10. TBA concentrations in monitoring well MW-11 increased and MTBE concentrations decreased. Analytical results from the groundwater sample collected from monitoring well MW-12 indicated a decrease in TPHg and BTEX concentrations and an increase in DRO, MTBE, and TBA concentrations. Analytical results from the groundwater sample collected from monitoring well MW-12A indicated a decrease in DRO concentrations. Analytical results from the groundwater sample collected from monitoring well MW-13 indicated an increase in TPHg, MTBE, and TBA concentrations. Analytical results from the groundwater sample collected from monitoring well MW-14 indicated a decrease in TPHg, toluene, ethylbenzene, total xylenes, and TBA concentrations and an increase in DRO, benzene, and MTBE concentrations. Analytical results from the groundwater sample collected from monitoring well MW-15 indicated a decrease in DRO and TBA concentrations and an increase in TPHg and MTBE concentrations. Analytical results from the groundwater sample collected from monitoring well MW-16 indicated an increase in TPHg, MTBE, and TBA concentrations and a decrease in DRO concentrations. Analytical results from the groundwater sample collected from monitoring well MW-17 indicated a decrease in DRO and TBA concentrations and an increase in TPHg and BTEX concentrations. Isoconcentration maps for TPHg, benzene, MTBE, and DRO are presented on **Figures 4** through **7** and historical groundwater flow directions are shown on **Figure 8**.

2.3.4 Waste Disposal Summary

Approximately 159 gallons of waste water were generated during well purging/sampling and equipment cleaning during the second quarter event. The waste water was transported 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.

2.3.5 Quality Assurance / Quality Control

Antea Group's QA/QC measures included use of a field duplicate and a detailed QA/QC data validation check on the Pace Laboratory analytical results for the June 2012 sampling event. Antea Group's laboratory data validation checklist and the Pace laboratory report are presented as **Appendix D**.

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

*1n – Sample may be biased high due to matrix interference.
*2n – The TPHg result for this sample did not match the pattern of the laboratory standard for gasoline. This is likely due to the presence of MTBE in the sample.
*D3 – Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
*M0 – Matrix spike recovery and/or matrix spike duplicate recovery outside laboratory control limits.
*M1 – Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
*P4 – Sample field preservation does not meet EPA or method recommendations for this analysis.
*P8 – Analyte was detected in the method blank. All associated samples had concentrations of at least ten times greater than the blank or were below reporting limits.
*R1 – RPD value was outside control limits.
*S3 – Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
*S5 – Surrogate recovery outside control limits due to matrix interferences (not confirmed by re-analysis).
*T4 – Result reported for hydrocarbons within the method-specific range that do not match pattern of laboratory standard.

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 recommends that all monitoring wells MW-3 and MW-6 through MW-17 be purged and sampled on a semi-annual basis.

Based on the data from the recent site investigation and groundwater monitoring at this site, the petroleum hydrocarbon and fuel oxygenate impact to the groundwater previously reported in monitoring well MW-12A was

due to drilling activities during the installation of this monitoring well. The data indicates that the groundwater monitored by this well at 30 feet to 34 feet bgs is not impacted at actionable concentrations and; therefore, Antea Group recommends that this monitoring well be destroyed.

4.0 REMARKS

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

Prepared by:

Edward T. Weyrens, G.I.T.
Staff Geologist

Information, conclusions, and recommendations provided by Antea Group in this document regarding the site have been prepared under the supervision of and reviewed by the licensed professional whose signature appears below.

Licensed Approver:

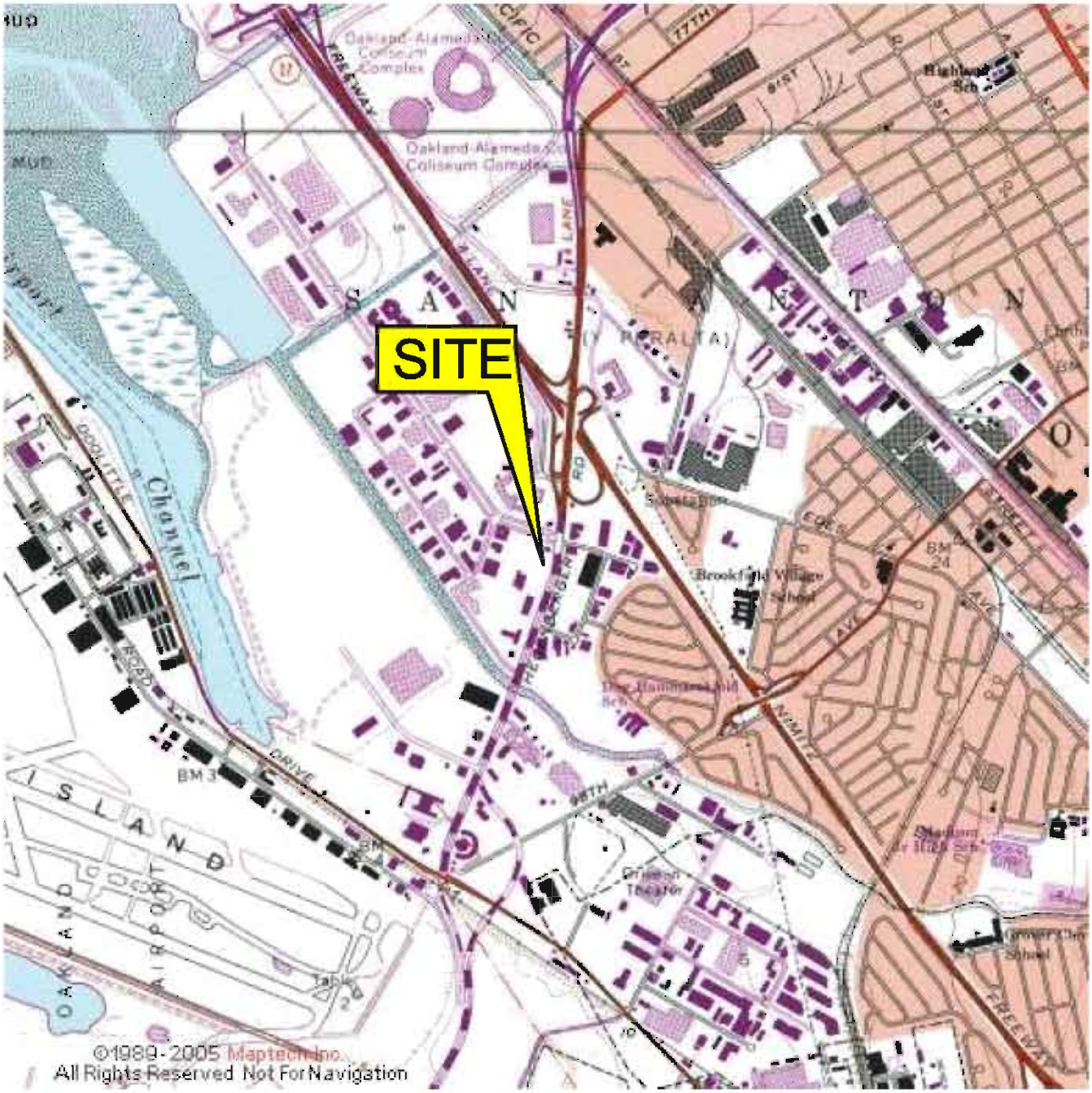
PROFESSIONAL GEOLOGIST
DENNIS SHANNON DETTLOFF
No. 7480
STATE OF CALIFORNIA

Date: 7/30/12

Dennis S. Dettloff
Project Manager
California Registered Professional Geologist No. 7480

cc: GeoTracker (upload)

Figures



North

0 900 1800 FT
SCALE

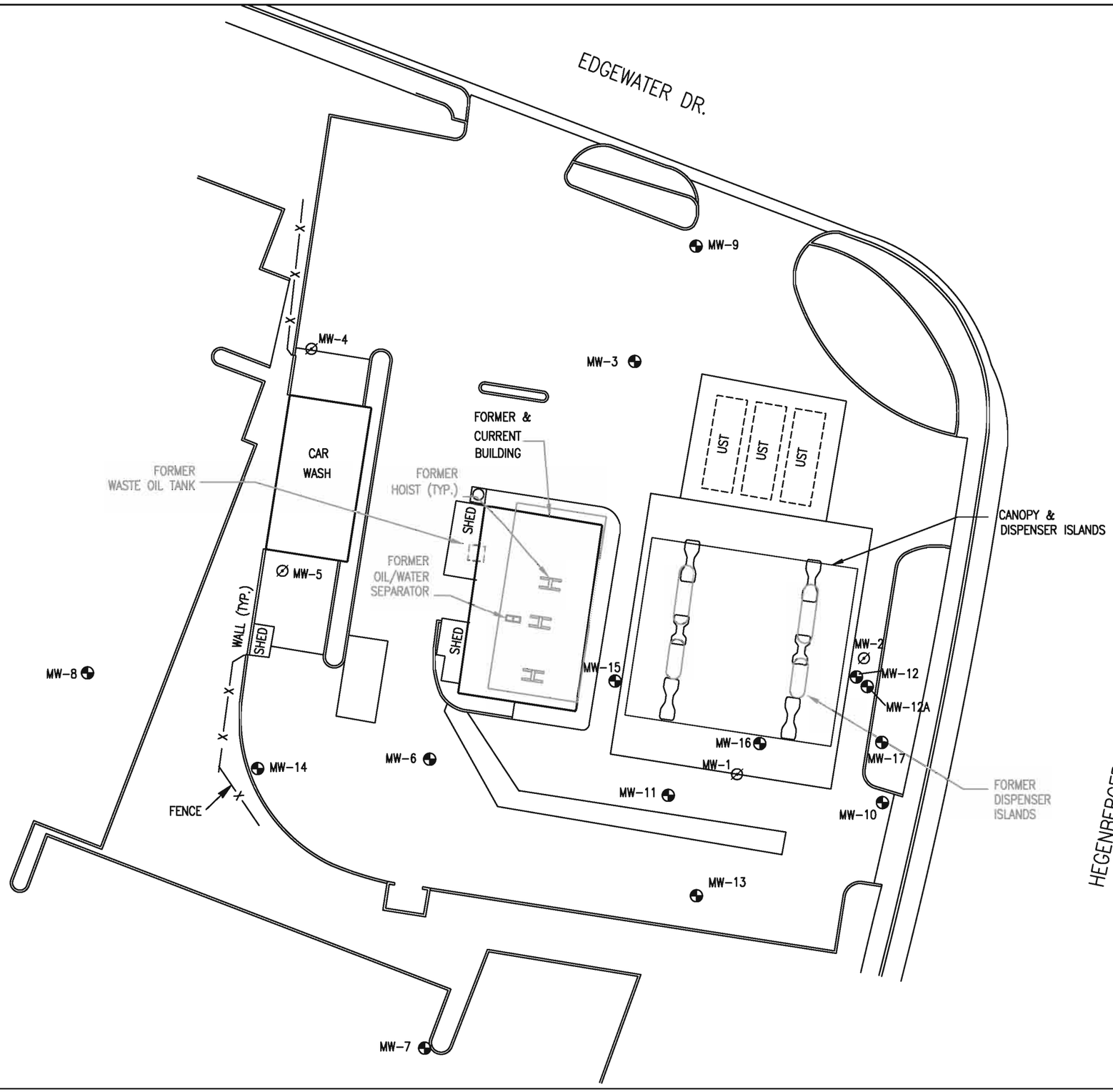
SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC MAP, OAKLAND EAST QUADRANGLE (1973)

FIGURE 1
SITE LOCATION MAP

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

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

antea group



LEGEND

- ⊕ MW- MONITORING WELL
- ⊘ MW- ABANDONED MONITORING WELL

North

0 30

SCALE IN FEET

FIGURE 2
SITE PLAN

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

PROJECT NO.	PREPARED BY	DRAWN BY
142705191	DD	JH
DATE	REVIEWED BY	FILE NAME
5/26/11	DD	5191-SiteS

anteagroup

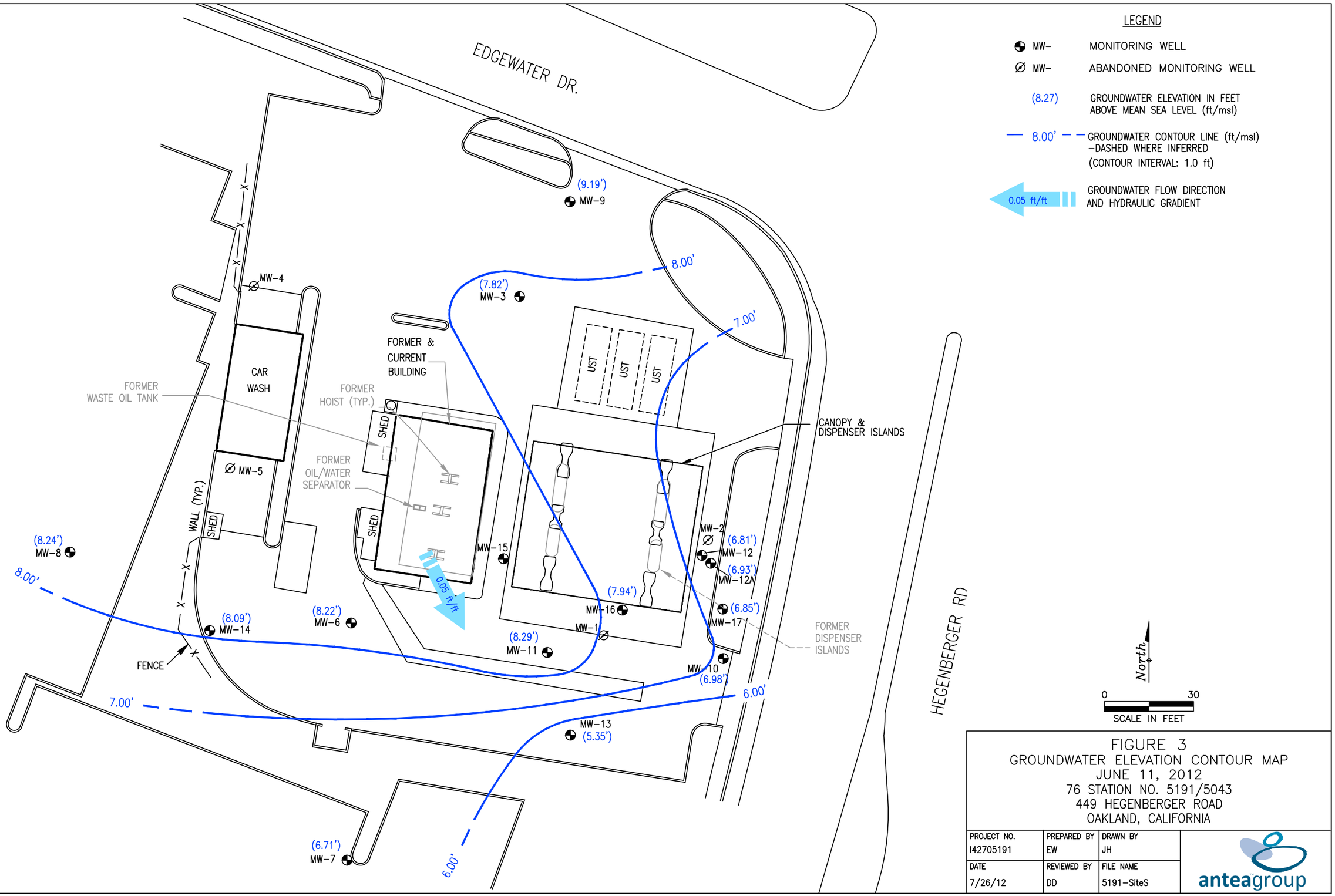
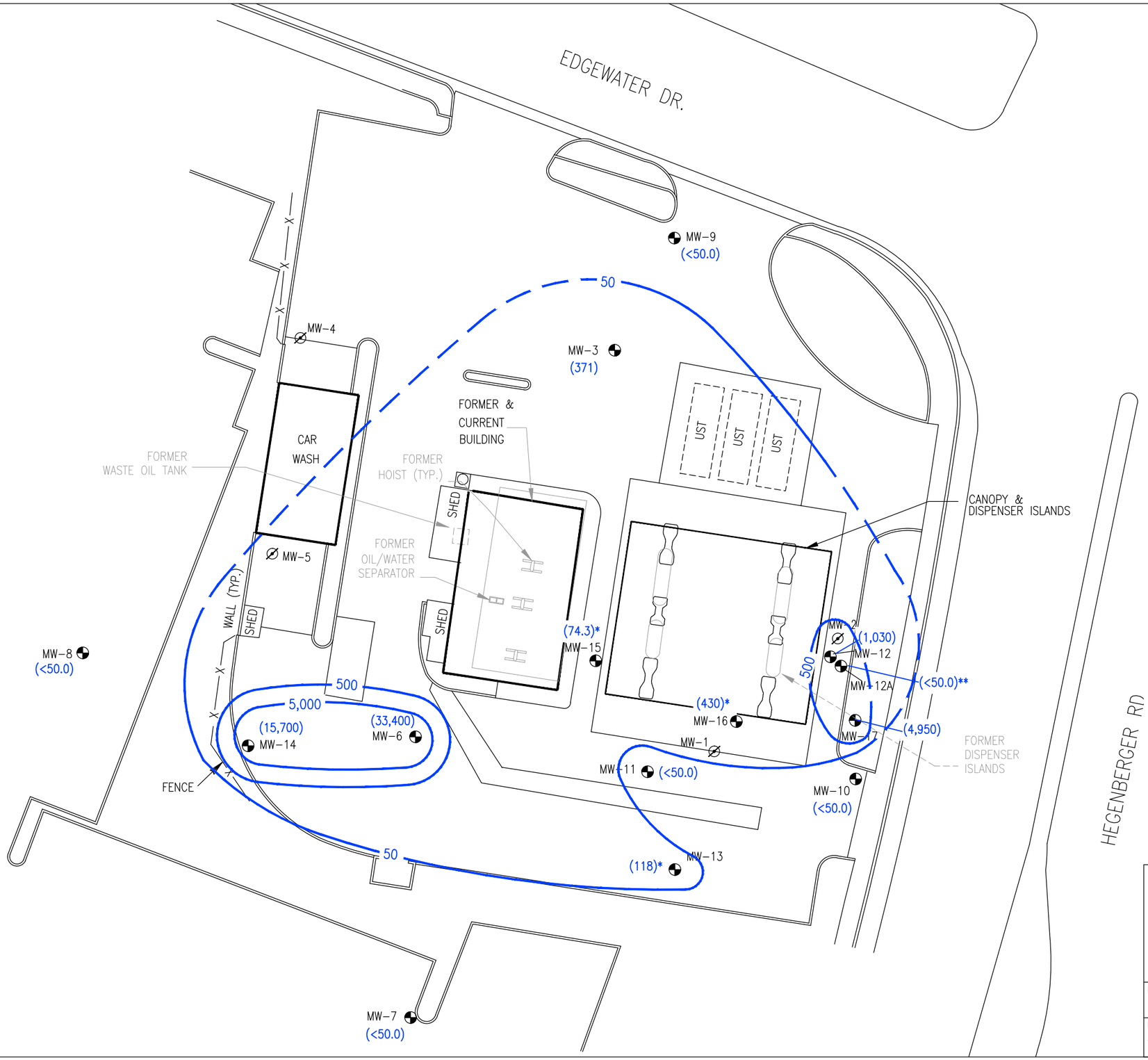


FIGURE 3
GROUNDWATER ELEVATION CONTOUR MAP
JUNE 11, 2012
76 STATION NO. 5191/5043
449 HEGENBERGER ROAD
OAKLAND, CALIFORNIA

PROJECT NO.	PREPARED BY	DRAWN BY
142705191	EW	JH
DATE	REVIEWED BY	FILE NAME
7/26/12	DD	5191–SiteS

antea group



LEGEND

- MW- MONITORING WELL
- MW- ABANDONED MONITORING WELL
- (33,400) DISSOLVED PHASE TPHg ISOOCONCENTRATION (µg/L)
- 5,000 DISSOLVED PHASE TPHg ISOCONTOUR (µg/L) –DASHED WHERE INFERRED

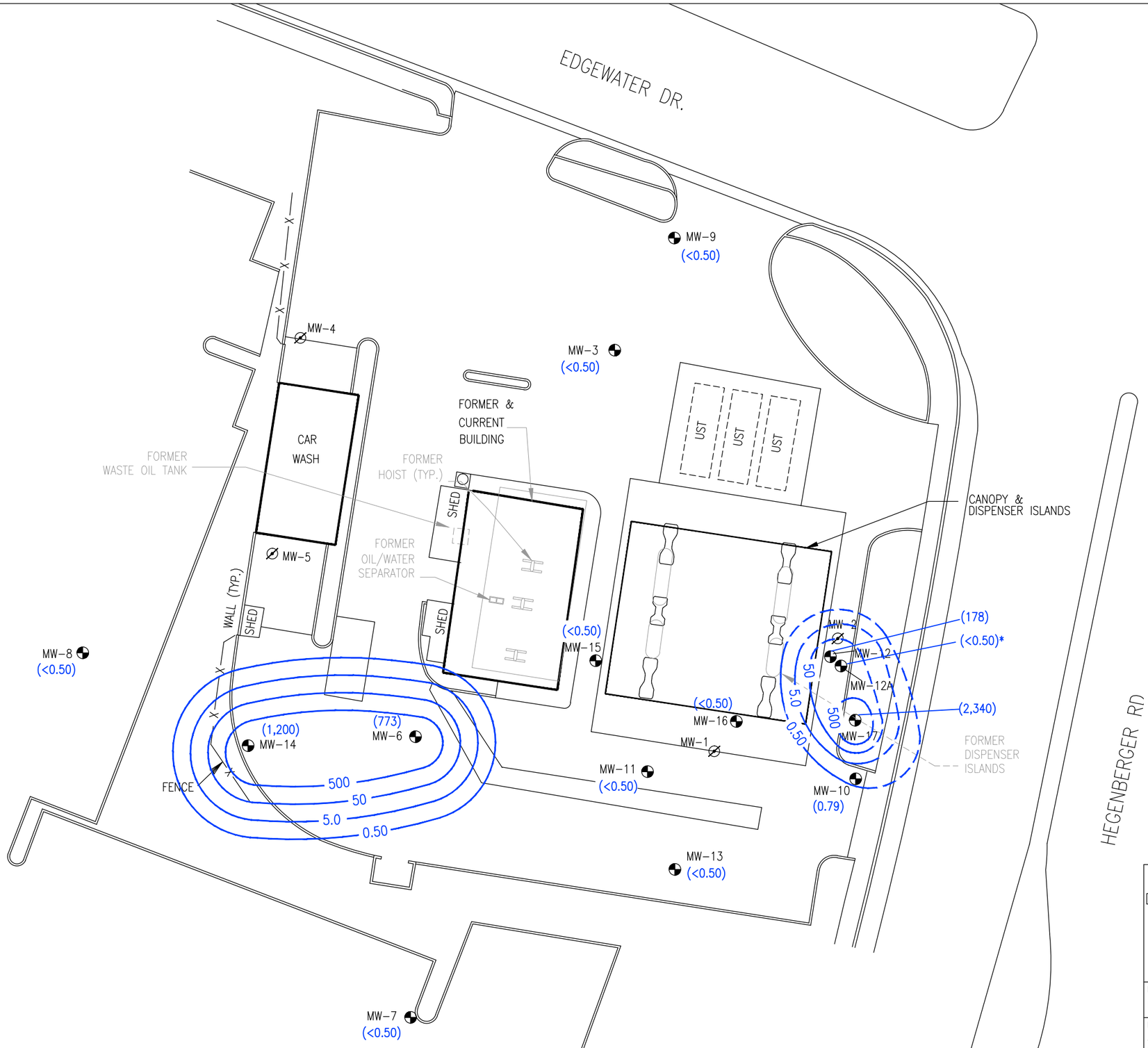
NOTES:

TPHg = TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
µg/L = MICROGRAMS PER LITER
<50 = LESS THAN LABORATORY INDICATED REPORTING LIMIT
* = TPHg DID NOT MATCH PATTERN OF LABORATORY STANDARD FOR GASOLINE. THIS IS LIKELY DUE TO THE PRESENCE OF MTBE.
** = NOT USED IN CONTOURING

FIGURE 4
DISSOLVED PHASE TPHg ISOCONCENTRATION MAP
JUNE 11 AND 12, 2012
76 STATION NO. 5191/5043
449 HEGENBERGER ROAD
OAKLAND, CALIFORNIA

PROJECT NO.	PREPARED BY	DRAWN BY
142705191	EW	JH
DATE	REVIEWED BY	FILE NAME
7/26/12	DD	5191-SiteS

antea group



LEGEND

- MW- MONITORING WELL
- MW- ABANDONED MONITORING WELL
- (1,200) DISSOLVED PHASE BENZENE ISOOCONCENTRATION (µg/L)
- 500 DISSOLVED PHASE BENZENE ISOCONTOUR (µg/L) –DASHED WHERE INFERRED

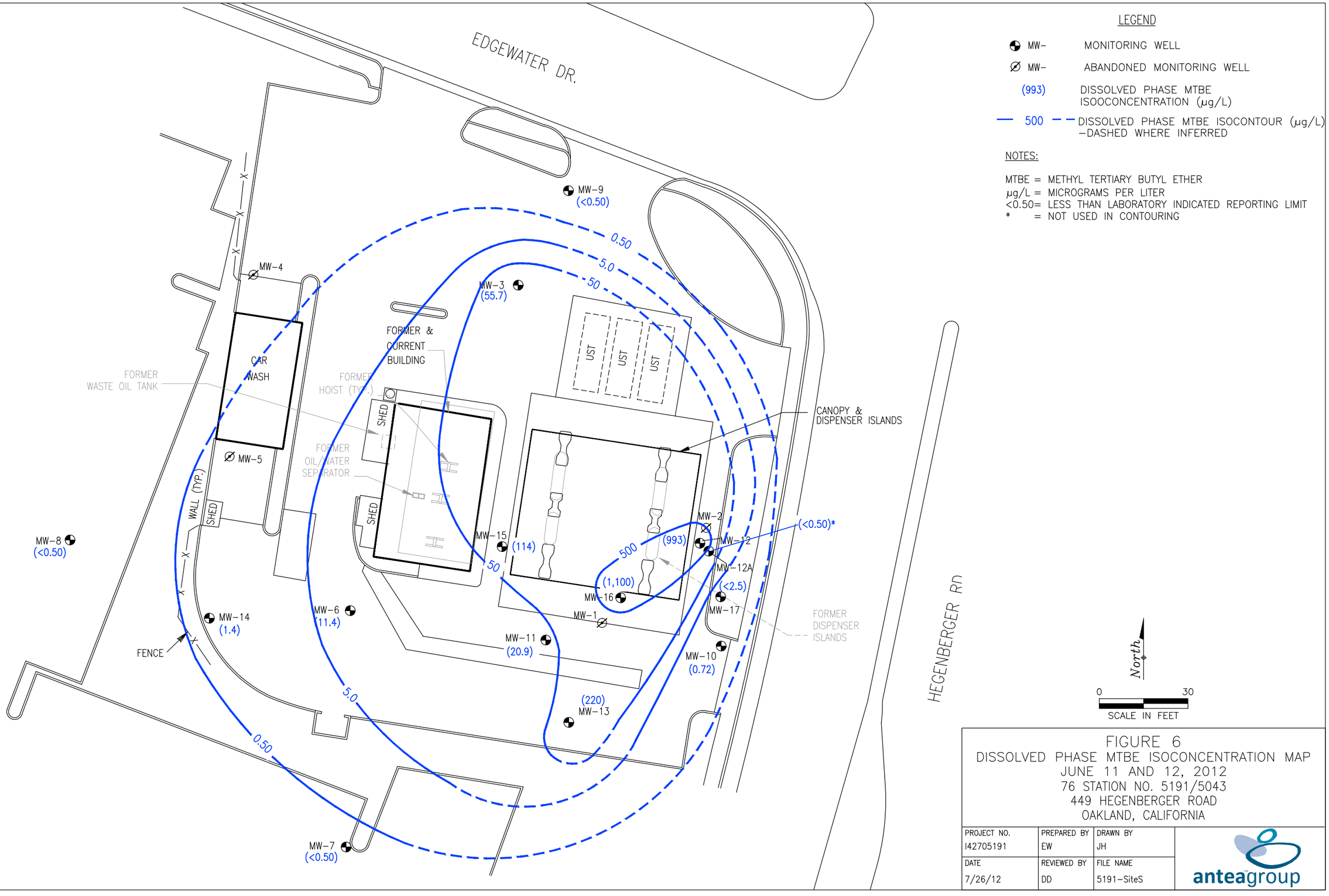
NOTES:

µg/L = MICROGRAMS PER LITER
<0.50 = LESS THAN LABORATORY INDICATED REPORTING LIMIT
* = NOT USED IN CONTOURING

FIGURE 5
DISSOLVED PHASE BENZENE ISOCONCENTRATION MAP
JUNE 11 AND 12, 2012
76 STATION NO. 5191/5043
449 HEGENBERGER ROAD
OAKLAND, CALIFORNIA

PROJECT NO.	PREPARED BY	DRAWN BY
142705191	EW	JH
DATE	REVIEWED BY	FILE NAME
7/26/12	DD	5191-SiteS

antea group



LEGEND

- MW- MONITORING WELL
- MW- ABANDONED MONITORING WELL
- (993) DISSOLVED PHASE MTBE ISOOCONCENTRATION (µg/L)
- 500 DISSOLVED PHASE MTBE ISOCONTOUR (µg/L) –DASHED WHERE INFERRED

NOTES:

MTBE = METHYL TERTIARY BUTYL ETHER
µg/L = MICROGRAMS PER LITER
<0.50= LESS THAN LABORATORY INDICATED REPORTING LIMIT
* = NOT USED IN CONTOURING

FIGURE 6
DISSOLVED PHASE MTBE ISOCONCENTRATION MAP
JUNE 11 AND 12, 2012
76 STATION NO. 5191/5043
449 HEGENBERGER ROAD
OAKLAND, CALIFORNIA

PROJECT NO.	PREPARED BY	DRAWN BY
142705191	EW	JH
DATE	REVIEWED BY	FILE NAME
7/26/12	DD	5191-SiteS

anteagroup

EDGEWATER DR.

MW-9
(<37.9)

MW-4

MW-3
(87.9)*

40

FORMER &
CURRENT
BUILDING

FORMER
WASTE OIL TANK

CAR
WASH

FORMER
HOIST (TYP.)

SHED

FORMER
OIL/WATER
SEPARATOR

UST

UST

UST

CANOPY &
DISPENSER ISLANDS

MW-5

WALL (TYP.)

SHED

SHED

(<37.9)
MW-15

MW-2

(957)*

MW-12

(<37.9)**

MW-12A

MW-8
(<37.9)

40

400

4,000

(4,580)
MW-14

(47,100)*
MW-6

40,000

(48.1)*
MW-16

400

(1,090)*
MW-17

MW-1

FORMER
DISPENSER
ISLANDS

FENCE

MW-11 (<37.9)

40

MW-10
(<37.9)

HEGENBERGER RD

MW-13
(<37.9)

MW-7
(<37.9)

LEGEND

- MW- MONITORING WELL
- MW- ABANDONED MONITORING WELL
- (87.9)* DISSOLVED PHASE DRO ISOOCONCENTRATION (µg/L)
- 400 DISSOLVED PHASE DRO ISOCONTOUR (µg/L) –DASHED WHERE INFERRED

NOTES:

DRO = DIESEL RANGE ORGANICS
µg/L = MICROGRAMS PER LITER
<37.9 = LESS THAN LABORATORY INDICATED REPORTING LIMIT
* = DRO DID NOT MATCH THE PATTERN OF THE LABORATORY STANDARD FOR DIESEL.

North

0 30

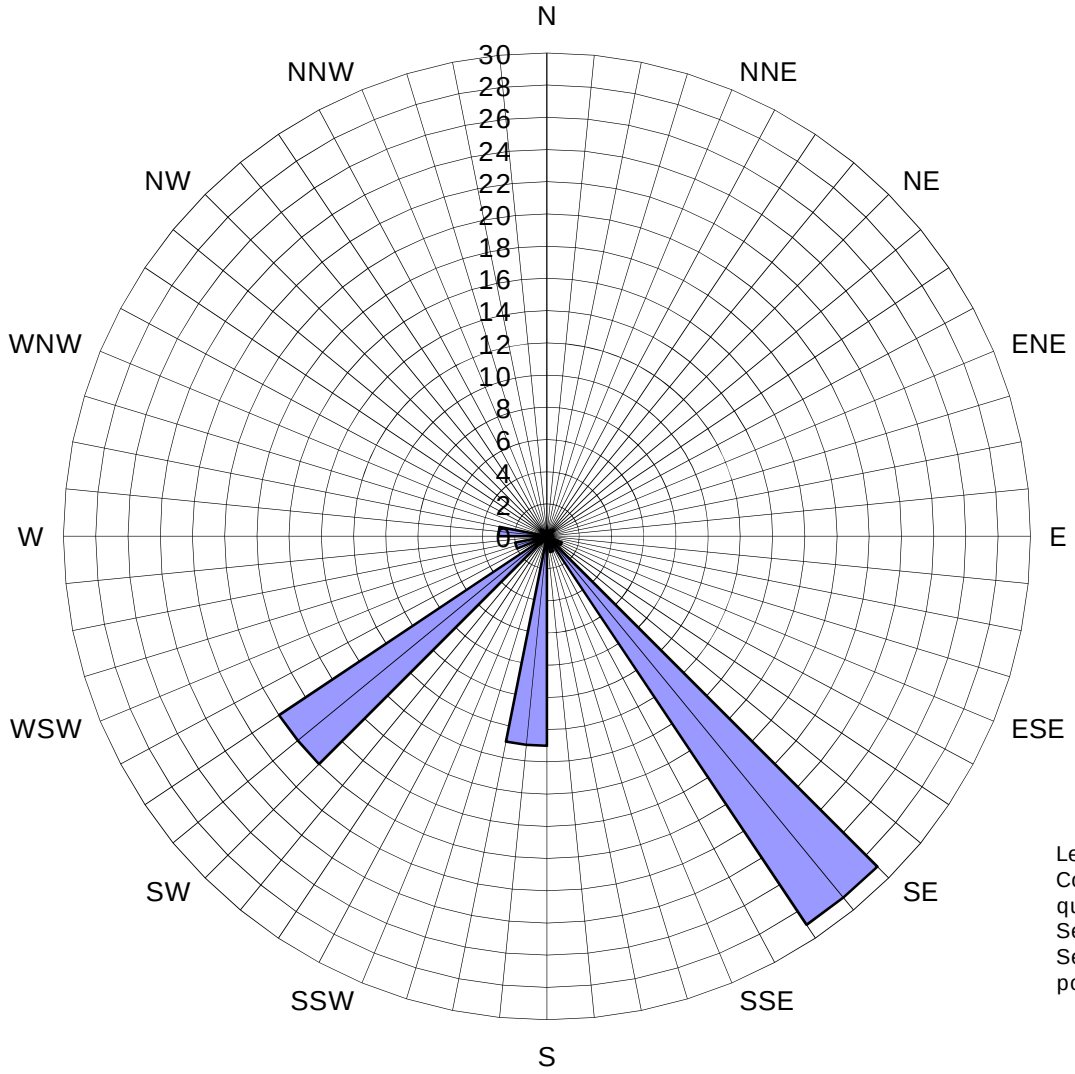
SCALE IN FEET

FIGURE 7
DISSOLVED PHASE DRO ISOCONCENTRATION MAP
JUNE 10 AND 11, 2012
76 STATION NO. 5191/5043
449 HEGENBERGER ROAD
OAKLAND, CALIFORNIA

PROJECT NO.	PREPARED BY	DRAWN BY
142705191	EW	JH
DATE	REVIEWED BY	FILE NAME
7/26/12	DD	5191-SiteS

anteagroup

Figure 8
Historical Groundwater Flow Directions
76 Station No. 5191/5043
449 Hegenberger Road
Oakland, California



Legend
Concentric circles represent quarterly montoring events Second Quarter 1992 through Second Quarter 2012. 69 data points shown

Groundwater Flow Direction

Tables

Table 1
Well Construction Details
76 Station No. 5191/5043
449 Hegenberger Road
Oakland, CA

Well I.D.	Drill Date	Well		Screen		Screen Length	Comments
		Depth (feet bgs)	Diameter (inches)	Top (feet bgs)	Bottom (feet bgs)	(feet)	
Monitoring Wells							
MW-1	02/05/91	13.5	2	2.0	13.0	11.0	Abandoned
MW-2	02/05/91	15.0	2	3.0	15.0	12.0	Abandoned
MW-3	02/05/91	14.0	2	2.0	14.0	12.0	
MW-4	08/21/92	13.5	2	2.5	13.5	11.0	Abandoned
MW-5	08/21/92	13.5	2	2.5	13.5	11.0	Abandoned
MW-6	08/21/92	13.5	2	2.5	13.5	11.0	
MW-7	04/21/97	13.0	2	3.0	13.0	10.0	
MW-8	04/21/97	15.0	2	3.0	15.0	12.0	
MW-9	01/25/95	13.0	2	3.0	13.0	10.0	
MW-10	01/25/95	13.0	2	3.0	13.0	10.0	
MW-11	06/22/10	20.0	4	5.0	20.0	15.0	
MW-12	06/22/10	20.0	4	5.0	20.0	15.0	
MW-12A	06/23/10	34.0	2	30.0	34.0	4.0	
MW-13	06/22/10	15.0	2	5.0	15.0	10.0	
MW-14	05/17/11	13.0	2	3.0	13.0	10.0	
MW-15	05/17/11	13.0	2	3.0	13.0	10.0	
MW-16	05/17/11	13.0	2	3.0	13.0	10.0	
MW-17	05/18/11	13.0	2	3.0	13.0	10.0	

Explanation

Wells are of poly-vinyl-chloride (PVC) construction

bgs = Below ground surface

TABLE 2
CURRENT GROUNDWATER GAUGING AND ANALYTICAL DATA
76 Station No. 5191/5043
449 HEGENBERGER RD
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)	TPHg (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)	TBA (ug/L)	Ethanol (ug/L)	Iron SW6010 T (ug/L)	Nitrate as N (ug/L)	Nitrite as N SM4500 (ug/L)	Nitrogen, NO2 plus NO3 (ug/L)	Sulfate E300 (ug/L)
MW-3	6/11/2012	10.81	2.99	NP	7.82	**87.9 T4**	**371**	<0.50	<0.50	<0.50	<1.5	**55.7**	**77.2**	<250	**10,900**	<50.0	<10	<50.0	<2000
MW-6	6/11/2012	11.55	3.33	NP	8.22	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/12/2012	--	--	--	--	**47,100 T4**	**33,400**	**773**	**60.8**	**840**	**3,110**	**11.4**	**123**	<250	**1,240**	<50.0	<10	<50.0	**1,110**
MW-7	6/11/2012	11.64	4.93	NP	6.71	<37.9	<50	<0.50	<0.50	<0.50	<1.5	<0.50	<5.0	<250	**264**	<50.0	**67**	**111**	**56,900**
MW-8	6/11/2012	11.32	3.08	NP	8.24	<37.9	<50	<0.50	<0.50	<0.50	<1.5	<0.50	**8.3**	<250	**21,000**	<50.0	**48**	<50.0	**2,570,000**
MW-9	6/11/2012	10.94	1.75	NP	9.19	<37.9	<50	<0.50	<0.50	<0.50	<1.5	<0.50	<5.0	<250	**731**	<50.0	<10	<50.0	**42,500**
MW-10	6/11/2012	10.97	3.99	NP	6.98	<37.9	<50	**0.79**	<0.50	<0.50	<1.5	**0.72**	**17.2**	<250	**11,300**	**1,510**	**57**	**1,570**	**70,100**
MW-11	6/11/2012	10.53	2.24	NP	8.29	<37.9	<50	<0.50	<0.50	<0.50	<1.5	**20.9**	**10.4**	<250	**1,300**	**88.8**	<10	**93.5**	**79,400**
MW-12	6/11/2012	11.01	4.20	NP	6.81	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/12/2012	--	--	--	--	**957 T4**	**1,030**	**178**	**17.0**	**24.1**	**68.8**	**993**	**448**	<250	**497**	<50.0	<10	<50.0	**2,130,000**
MW-12A	6/11/2012	11.29	4.36	NP	6.93	<37.9	<50	<0.50	<0.50	<0.50	<1.5	<0.50	<5.0	<250	**859**	**4,250**	<10	**4,260**	**118,000**
MW-13	6/11/2012	11.08	5.73	NP	5.35	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/12/2012	--	--	--	--	<37.9	**118 1n**	<0.50	<0.50	<0.50	<1.5	**220**	**81.7**	<250	**3,760**	<50.0	**19**	<50.0	**131,000**
MW-14	6/11/2012	12.00	3.91	NP	8.09	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/12/2012	--	--	--	--	**4,580**	**15,700**	**1,200**	**14.0**	**1,580**	**3,010**	**1.4**	**23.3**	<250	**1,150**	<50.0	<10	<50.0	**439,000**
MW-15	6/11/2012	11.11	2.84	NP	8.27	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/12/2012	--	--	--	--	<37.9	**74.3 1n**	<0.50	<0.50	<0.50	<1.5	**114**	**90.9**	<250	**2,920**	<50.0	<10	<50.0	**42,100**
MW-16	6/11/2012	10.98	3.04	NP	7.94	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/12/2012	--	--	--	--	**48.1 T4**	**430 1n**	<0.50	<0.50	<0.50	<1.5	**1,100**	**374**	<250	**1,730**	<50.0	<10	<50.0	**19,900**
MW-17	6/11/2012	11.52	4.67	NP	6.85	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/12/2012	--	--	--	--	**1,090 T4**	**4,950**	**2,340**	**123**	**153**	**610**	<2.5	**411**	<1250	**44,300**	<50.0	**39**	<50.0	**2,520,000**

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

Analytical Notes:
< - Below the laboratory's indicated reporting limit
ug/L - micrograms/liter
DRO- diesel range organics
TPHg- Total petroleum hydrocarbons as gasoline
MTBE- Methyl tertiary-butyl ether
TBA- Tertiary-butyl alcohol
Bold - Above the laboratory's indicated reporting limit
1n - The TPHg result for this sample did not match the laboratory standard for gasoline. This is likely due to the presence of MTBE in the sample.
T4- Result reported for the hydrocarbons within the method-specific range that do not match pattern of laboratory standard.

TABLE 3
HISTORICAL GROUNDWATER GAUGING AND ANALYTICAL DATA
76 Station No. 5191/5043
449 HEGENBERGER RD
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)	TPHg (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (SW8021B) (ug/L)	MTBE (SW8260B) (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	Ethanol (ug/L)	1,2-Dibromoethane (EDB) (ug/L)	1,2-Dichloroethane (ug/L)
MW-1	2/18/1992	NSVD	NG	NG	NG	**13,000**	**150,000**	**17,000**	**26,000**	**5,200**	**26,000**	--	--	--	--	--	--	--	--	--
	5/20/1992	NSVD	NG	NG	NG	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	8/31/1992	NSVD	NG	NG	NG	**8,900**	**64,000**	**13,000**	**12,000**	**2,500**	**22,000**	--	--	--	--	--	--	--	--	--
	11/30/1992	NSVD	NG	NG	NG	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	2/4/1993	NSVD	NG	NG	NG	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	5/4/1993	8.96	2.13	0.10	6.91	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	8/4/1993	8.96	2.92	0.03	6.06	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	11/3/1993	7.38	3.04	NP	4.34	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	2/7/1994	7.38	2.55	0.03	4.85	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	5/19/1994	7.38	2.23	0.01	5.16	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	6/25/1994	7.38	2.49	0.01	4.90	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	7/27/1994	7.38	3.10	NP	4.28	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	8/15/1994	7.38	2.85	0.11	4.61	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	11/14/1994	7.38	2.97	0.12	4.50	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	2/21/1995	7.38	1.53	0.02	5.87	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	5/18/1995	NSVD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD
MW-2	2/18/1992	NSVD	NG	NG	NG	**4,300**	**29,000**	**1,000**	**5,300**	**260**	**7,900**	--	--	--	--	--	--	--	--	--
	5/20/1992	NSVD	NG	NG	NG	**4,300**	**24,000**	**2,200**	**7,600**	**630**	**11,000**	--	--	--	--	--	--	--	--	--
	8/31/1992	NSVD	NG	NG	NG	**1,600**	**9,000**	**1,800**	**640**	**140**	**2,000**	--	--	--	--	--	--	--	--	--
	11/30/1992	NSVD	NG	NG	NG	**5,700**	**29,000**	**2,000**	**3,400**	**1,200**	**6,900**	--	--	--	--	--	--	--	--	--
	2/4/1993	NSVD	NG	NG	NG	**6,100**	**18,000**	**1,600**	**3,000**	**ND**	**6,900**	--	--	--	--	--	--	--	--	--
	5/4/1993	8.96	2.48	NP	6.48	**7,100**	**63,000**	**3,200**	**17,000**	**470**	**17,000**	--	--	--	--	--	--	--	--	--
	8/4/1993	8.96	3.20	NP	5.76	**1,800**	**45,000**	**2,100**	**6,600**	**1,400**	**12,000**	--	--	--	--	--	--	--	--	--
	11/3/1993	8.58	3.37	NP	5.21	**2,600**	**72,000**	**3,700**	**16,000**	**3,700**	**20,000**	--	--	--	--	--	--	--	--	--
	2/7/1994	8.58	2.40	NP	6.18	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	5/19/1994	8.58	2.13	NP	6.45	**3,000**	**42,000**	**2,500**	**1,300**	**2,300**	**13,000**	--	--	--	--	--	--	--	--	--
	6/25/1994	8.58	2.65	NP	5.93	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	7/27/1994	8.58	3.44	NP	5.14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	8/15/1994	8.58	3.25	NP	5.33	**2,800**	**35,000**	**2,400**	**850**	**1,700**	**15,000**	--	--	--	--	--	--	--	--	--
	11/14/1994	8.58	2.13	NP	6.45	**10,000**	**43,000**	**2,200**	**6,500**	**1,800**	**14,000**	--	--	--	--	--	--	--	--	--
	2/21/1995	8.58	1.65	NP	6.93	**2,000**	**44,000**	**2,200**	**3,200**	**1,300**	**1,500**	--	--	--	--	--	--	--	--	--
	5/18/1995	NSVD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD
MW-3	2/18/1992	NSVD	NG	NG	NG	ND	**230**	**4.8**	**22**	**1.8**	**33**	--	--	--	--	--	--	--	--	--
	5/20/1992	NSVD	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI
	8/31/1992	NSVD	NG	NG	NG	**92**	**210**	**1**	ND	ND	ND	--	--	--	--	--	--	--	--	--
	11/30/1992	NSVD	NG	NG	NG	**94**	**790**	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
	2/4/1993	NSVD	NG	NG	NG	**550**	**3,300**	**320**	ND	**96**	**6.1**	--	--	--	--	--	--	--	--	--
	5/4/1993	7.84	4.32	NP	3.52	**250**	**1,800**	**95**	ND	ND	ND	--	--	--	--	--	--	--	--	--
	8/4/1993	7.84	4.94	NP	2.90	**100**	**210**	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
	11/3/1993	7.42	4.53	NP	2.89	**160**	**640**	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
	2/7/1994	7.42	2.40	NP	5.02	**620**	**2,700**	**110**	ND	17	ND	--	--	--	--	--	--	--	--	--
	5/19/1994	7.42	3.60	NP	3.82	**480**	**1,800**	**83**	ND	**6.2**	**9.1**	--	--	--	--	--	--	--	--	--
	6/25/1994	7.42	4.58	NP	2.84	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	7/27/1994	7.42	4.58	NP	2.84	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	8/15/1994	7.42	4.65	NP	2.77	**110**	**130**	**1.1**	**0.54**	ND	**0.97**	--	--	--	--	--	--	--	--	--
	11/14/1994	7.42	3.18	NP	4.24	**150**	**1,600**	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
	2/21/1995	7.42	1.81	NP	5.61	**850**	**3,800**	**350**	ND	**130**	**22**	--	--	--	--	--	--	--	--	--
	5/18/1995	7.42	4.56	NP	2.86	**150**	**1,300**	**42**	ND	ND	ND	--	--	--	--	--	--	--	--	--
	8/17/1995	7.42	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI
	7/26/1996	7.42	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI
	10/28/1996	7.42	WO	WO	WO	WO	WO	WO	WO	WO	WO	WO	WO	WO	WO	WO	WO	WO	WO	WO
	1/29/1997	7.42	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI
	4/15/1997	7.42	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI

TABLE 3
HISTORICAL GROUNDWATER GAUGING AND ANALYTICAL DATA
76 Station No. 5191/5043
449 HEGENBERGER RD
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)	TPHg (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (SW8021B) (ug/L)	MTBE (SW8260B) (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	Ethanol (ug/L)	1,2-Dibromoethane (EDB) (ug/L)	1,2-Dichloroethane (ug/L)
MW-3	5/27/1997	7.42	3.45	NP	3.97	--	**670**	**6.5**	ND	ND	ND	**250**	--	--	--	--	--	--	--	--
	6/1/1997	7.42	3.50	NP	3.92	**610**	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	7/15/1997	8.04	3.71	NP	4.33	**240**	**240**	ND	ND	ND	ND	**490**	--	--	--	--	--	--	--	--
	10/9/1997	8.04	3.70	NP	4.34	**500**	**270**	**1.1**	ND	**2.4**	**1.4**	**910**	--	--	--	--	--	--	--	--
	1/14/1998	8.04	2.16	NP	5.88	**340**	**310**	ND	ND	**0.62**	**0.65**	**140**	--	--	--	--	--	--	--	--
	4/1/1998	8.04	2.20	NP	5.84	**320**	**370**	**5.7**	ND	ND	ND	**93**	--	--	--	--	--	--	--	--
	7/15/1998	8.04	3.38	NP	4.66	**510**	**460**	ND	ND	ND	ND	**230**	--	--	--	--	--	--	--	--
	10/16/1998	8.04	2.30	NP	5.74	**67**	**330**	**4.7**	ND	ND	ND	**60**	--	--	--	--	--	--	--	--
	1/25/1999	8.04	2.42	NP	5.62	**120**	**420**	**1.5**	ND	ND	ND	**180**	--	--	--	--	--	--	--	--
	4/15/1999	8.04	2.16	NP	5.88	**170**	**290**	**0.54**	ND	ND	ND	**160**	--	--	--	--	--	--	--	--
	7/14/1999	8.04	2.35	NP	5.69	**420**	**290**	**3.2**	ND	ND	ND	**160**	--	--	--	--	--	--	--	--
	10/21/1999	8.04	2.49	NP	5.55	**350**	**360**	**0.77**	ND	ND	ND	**82**	--	--	--	--	--	--	--	--
	1/20/2000	8.04	2.38	NP	5.66	**2,060**	ND	**0.81**	ND	ND	ND	**54**	--	--	--	--	--	--	--	--
	4/13/2000	8.04	2.76	NP	5.28	**200**	**250**	**0.69**	ND	ND	ND	**91**	**150**	ND	ND	ND	ND	ND	ND	ND
	7/14/2000	8.04	3.26	NP	4.78	**423**	**345**	ND	ND	ND	ND	**94.7**	--	--	--	--	--	--	--	--
	10/26/2000	8.04	3.12	NP	4.92	**330**	**480**	**6.0**	ND	ND	ND	**120**	--	--	--	--	--	--	--	--
	1/3/2001	8.04	3.65	NP	4.39	**287**	**364**	**1.59**	ND	ND	ND	**118**	--	--	--	--	--	--	--	--
	4/4/2001	8.04	3.98	NP	4.06	**360**	**417**	**1.24**	ND	ND	**0.802**	**237**	--	--	--	--	--	--	--	--
	7/17/2001	8.04	3.12	NP	4.92	**270**	**480**	ND	ND	ND	ND	**150**	--	--	--	--	--	--	--	--
	10/1/2001	8.04	3.25	NP	4.79	**270**	**310**	**1.0**	<0.50	<0.50	<0.50	**53**	--	--	--	--	--	--	--	--
	1/31/2002	8.04	2.27	NP	5.77	**250**	**250**	**3.5**	<1.0	<1.0	<1.0	**110**	--	--	--	--	--	--	--	--
	4/18/2002	8.04	3.55	NP	4.49	**320**	**300**	<2.0	<2.0	<2.0	<2.0	--	**59**	--	--	--	--	--	--	--
	7/28/2002	8.04	2.55	NP	5.49	**310**	**500**	<0.50	<0.50	<0.50	<1.0	--	**130**	--	--	--	--	--	--	--
	10/9/2002	8.04	2.47	NP	5.57	**700**	**690**	<5	<5	<5	<10	--	**120**	--	--	--	--	--	--	--
	1/2/2003	8.04	1.70	NP	6.34	**210**	**310**	<0.50	<0.50	<0.50	<1.0	--	**110**	<2.0	<2.0	<2.0	<100	<500	<2.0	<2.0
	4/1/2003	8.04	3.48	NP	4.56	**200**	**250**	<1.0	<1.0	<1.0	<2.0	--	**210**	--	--	--	--	--	--	--
	7/1/2003	8.04	2.65	NP	5.39	**380**	**450**	<2.5	<2.5	<2.5	<5.0	--	**70**	--	--	--	--	<2500	--	--
	10/2/2003	8.04	3.12	NP	4.92	**300**	<250	<2.5	<2.5	<2.5	<5.0	--	**210**	--	--	--	--	<2500	--	--
	1/9/2004	8.04	2.39	NP	5.65	**200**	**300**	<0.50	**0.53**	**0.53**	**1.5**	--	**66**	--	--	--	--	<500	--	--
	4/26/2004	8.04	3.11	NP	4.93	**160**	**440**	**2.5**	**5.5**	**2.9**	**9.4**	--	**81**	--	--	--	--	<50	--	--
	7/22/2004	8.04	2.51	NP	5.53	**330**	**420**	<0.5	<0.5	<0.5	<1	--	**72**	--	--	--	--	<1000	--	--
	10/29/2004	8.04	2.00	NP	6.04	**200**	**460**	**5.6**	**15**	**10**	**46**	--	**48**	--	--	--	--	<50	--	--
	1/10/2005	8.04	1.52	NP	6.52	**250**	**280**	<0.50	**0.62**	<0.50	**2.4**	--	**64**	--	--	--	--	<50	--	--
	6/15/2005	8.04	2.00	NP	6.04	**360**	**460**	<0.50	**0.70**	**0.56**	**1.9**	--	**110**	--	--	--	--	<50	--	--
	9/27/2005	8.04	1.90	NP	6.14	<200	**210**	<0.50	**0.60**	<0.50	<1.0	--	**100**	<0.50	<0.50	<0.50	**79**	<250	--	--
	12/13/2005	8.04	2.35	NP	5.69	**230**	**230**	<0.50	<0.50	<0.50	<1.0	--	**92**	--	--	--	--	<250	--	--
	3/23/2006	8.04	1.84	NP	6.20	**260**	**290**	<0.50	<0.50	<0.50	<1.0	--	**88**	--	--	--	--	<250	--	--
	6/23/2006	8.04	2.26	NP	5.78	**330**	**500**	<0.50	<0.50	<0.50	<1.0	--	**75**	--	--	--	--	<250	--	--
	9/26/2006	8.04	2.08	NP	5.96	**260**	**270**	<0.50	<0.50	<0.50	<0.50	--	**73**	--	--	--	--	<250	--	--
	12/22/2006	8.04	1.88	NP	6.16	**250**	**260**	<0.50	<0.50	<0.50	**1.2**	--	**71**	--	--	--	--	<250	--	--
	3/30/2007	8.04	2.47	NP	5.57	**210**	**390**	<0.50	<0.50	<0.50	<0.50	--	**120**	--	--	--	--	<250	--	--
	6/28/2007	8.04	2.54	NP	5.50	**290**	**370**	<0.50	<0.50	<0.50	<0.50	--	**55**	--	--	--	--	<250	--	--
	9/25/2007	8.04	2.56	NP	5.48	**210**	**350**	<0.50	<0.50	<0.50	<0.50	--	**61**	--	--	--	--	<250	--	--
	12/28/2007	8.04	2.29	NP	5.75	**150**	**260**	<0.50	<0.50	<0.50	<1.0	--	**66**	--	--	--	--	<250	--	--
	3/22/2008	8.04	3.26	NP	4.78	**230**	**390**	<0.50	<0.50	<0.50	<1.0	--	**39**	--	--	--	--	<250	--	--
	6/23/2008	8.04	2.60	NP	5.44	**130**	**200**	<0.50	<0.50	<0.50	<1.0	--	**46**	--	--	--	--	<250	--	--
	9/19/2008	8.04	3.45	NP	4.59	**93**	**180**	<0.50	<0.50	<0.50	<1.0	--	**120**	--	--	--	--	<250	--	--
	12/31/2008	8.04	2.55	NP	5.49	**110**	**190**	<0.50	<0.50	<0.50	<1.0	--	**38**	--	--	--	--	<250	--	--
	3/27/2009	8.04	2.37	NP	5.67	**130**	**150**	<0.50	<0.50	<0.50	<1.0	--	**50**	--	--	--	--	<250	--	--
	5/28/2009	8.04	3.32	NP	4.72	**120**	**190**	<0.50	<0.50	<0.50	<1.0	--	**60**	--	--	--	--	<250	--	--

TABLE 3
HISTORICAL GROUNDWATER GAUGING AND ANALYTICAL DATA
76 Station No. 5191/5043
449 HEGENBERGER RD
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)	TPHg (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (SW8021B) (ug/L)	MTBE (SW8260B) (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	Ethanol (ug/L)	1,2-Dibromoethane (EDB) (ug/L)	1,2-Dichloroethane (ug/L)
MW-3	9/17/2009	8.04	2.63	NP	5.41	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/17/2009	8.04	2.13	NP	5.91	**338**	**300**	<0.50	<0.50	**0.78**	<1.5	--	**43.1**	--	--	--	--	<250	--	--
	3/29/2010	8.04	2.22	NP	5.82	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/30/2010	10.81	2.91	NP	7.90	**89.7**	**261**	<0.50	<0.50	<0.50	<1.5	--	**89.0**	--	--	--	--	<250	--	--
	7/6/2010	10.81	2.66	NP	8.15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/20/2010	10.81	3.12	NP	7.69	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/8/2010	10.81	2.37	NP	8.44	**137**	**306**	<0.50	<0.50	<0.50	<1.5	--	**58.8**	--	--	--	--	<250	--	--
	3/14/2011	10.81	2.26	NP	8.55	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/2/2011	10.81	2.43	NP	8.38	**155 T4**	**283**	**0.58**	**1.3**	<0.50	**2.2**	--	**42.1**	--	--	--	**55.7**	<250	--	--
	9/7/2011	10.81	2.36	NP	8.45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/5/2011	10.81	2.55	NP	8.26	**81.7 T4**	**381**	<0.50	<0.50	<0.50	<1.5	--	**41.8**	--	--	--	--	<250	--	--
	3/6/2012	10.81	2.63	NP	8.18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/11/2012	10.81	2.99	NP	7.82	**87.9 T4**	**371**	<0.50	<0.50	<0.50	<1.5	--	**55.7**	--	--	--	**77.2**	<250	--	--
MW-4	8/31/1992	NSVD	NG	NG	NG	**90**	**240**	ND	ND	ND	**0.54**	--	--	--	--	--	--	--	--	--
	11/30/1992	NSVD	NG	NG	NG	61	**420**	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
	2/4/1993	NSVD	NG	NG	NG	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
	5/4/1993	9.00	4.09	NP	4.91	ND	**110**	**0.95**	ND	ND	ND	--	--	--	--	--	--	--	--	--
	8/4/1993	9.00	5.01	NP	3.99	**81**	**250**	ND	**3.5**	ND	**4.1**	--	--	--	--	--	--	--	--	--
	11/3/1993	8.41	4.23	NP	4.18	**68**	**130**	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
	2/7/1994	8.41	3.35	NP	5.06	ND	**56**	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
	5/19/1994	8.41	3.92	NP	4.49	**90**	**140**	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
	6/25/1994	8.41	4.35	NP	4.06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	7/27/1994	8.41	4.28	NP	4.13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	8/15/1994	8.41	4.27	NP	4.14	**72**	**59**	ND	**0.6**	ND	ND	--	--	--	--	--	--	--	--	--
	11/14/1994	8.41	4.05	NP	4.36	ND	**130**	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
	2/21/1995	NSVD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD
MW-5	8/31/1992	NSVD	NG	NG	NG	**690**	**78**	**0.89**	ND	ND	**13**	--	--	--	--	--	--	--	--	--
	11/30/1992	NSVD	NG	NG	NG	**470**	**930**	**70**	**290**	**0.79**	**14**	--	--	--	--	--	--	--	--	--
	2/4/1993	NSVD	NG	NG	NG	**5,500**	**5,700**	**38**	ND	**620**	**170**	--	--	--	--	--	--	--	--	--
	5/4/1993	8.95	4.37	NP	4.58	**4,600**	**7,400**	**41**	ND	**1,000**	**35**	--	--	--	--	--	--	--	--	--
	8/4/1993	8.95	5.81	NP	3.14	**970**	**1,500**	**130**	**1**	**460**	**11**	--	--	--	--	--	--	--	--	--
	11/3/1993	8.95	5.68	NP	3.27	**2,100**	**13,000**	**350**	ND	**3,500**	**530**	--	--	--	--	--	--	--	--	--
	2/7/1994	8.95	5.11	NP	3.84	**830**	**2,000**	**87**	ND	**370**	**110**	--	--	--	--	--	--	--	--	--
	5/19/1994	8.95	5.09	NP	3.86	**600**	**260**	**44**	ND	**32**	**4.1**	--	--	--	--	--	--	--	--	--
	6/25/1994	8.95	4.55	NP	4.40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	7/27/1994	8.95	5.72	NP	3.23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	8/15/1994	8.95	5.68	NP	3.27	**860**	**1,600**	**110**	ND	**340**	**72**	--	--	--	--	--	--	--	--	--
	11/14/1994	8.95	5.63	NP	3.32	**290**	**250**	**40**	ND	ND	**5**	--	--	--	--	--	--	--	--	--
	2/21/1995	NSVD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD
MW-6	8/31/1992	NSVD	NG	NG	NG	**750**	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
	11/30/1992	NSVD	NG	NG	NG	**1,400**	**9,200**	**550**	ND	**740**	**1,600**	--	--	--	--	--	--	--	--	--
	2/4/1993	NSVD	NG	NG	NG	**890**	**3,600**	**340**	ND	**290**	**550**	--	--	--	--	--	--	--	--	--
	5/4/1993	9.12	3.72	NP	5.40	**1,800**	**4,900**	**360**	**18**	**450**	**430**	--	--	--	--	--	--	--	--	--
	8/4/1993	9.12	5.15	NP	3.97	**1,100**	**3,400**	**390**	ND	**440**	**190**	--	--	--	--	--	--	--	--	--
	11/3/1993	8.87	5.25	NP	3.62	**390**	**1,400**	**320**	ND	**200**	**7.7**	--	--	--	--	--	--	--	--	--
	2/7/1994	8.87	4.55	NP	4.32	**970**	**4,900**	**650**	ND	**250**	**35**	--	--	--	--	--	--	--	--	--
	5/19/1994	8.87	4.62	NP	4.25	**1,400**	**3,600**	**300**	**1.7**	**210**	**41**	--	--	--	--	--	--	--	--	--
	8/15/1994	8.87	5.08	NP	3.79	**790**	**1,300**	**130**	**6.7**	**54**	**57**	--	--	--	--	--	--	--	--	--
	11/14/1994	8.87	5.30	NP	3.57	**800**	**730**	**50**	ND	ND	**39**	--	--	--	--	--	--	--	--	--
	2/21/1995	8.87	5.37	NP	3.50	**730**	**2,000**	**250**	**4.6**	**25**	**30**	--	--	--	--	--	--	--	--	--
	5/18/1995	8.87	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI
	8/17/1995	8.87	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI	WI

TABLE 3
HISTORICAL GROUNDWATER GAUGING AND ANALYTICAL DATA
76 Station No. 5191/5043
449 HEGENBERGER RD
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)	TPHg (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (SW8021B) (ug/L)	MTBE (SW8260B) (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	Ethanol (ug/L)	1,2-Dibromoethane (EDB) (ug/L)	1,2-Dichloroethane (ug/L)
MW-6	7/26/1996	8.87	6.40	3.33	4.97	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	10/28/1996	8.87	4.10	0.21	4.93	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	11/13/1996	8.87	4.02	0.25	5.04	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	11/25/1996	8.87	4.01	0.75	5.42	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	12/4/1996	8.87	3.65	0.50	5.60	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	12/19/1996	8.87	4.80	2.20	5.72	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	1/8/1997	8.87	4.84	1.75	5.34	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	1/14/1997	8.87	4.51	1.15	5.22	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	1/27/1997	8.87	4.00	1.75	6.18	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	1/29/1997	8.87	3.24	0.31	5.86	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	2/11/1997	8.87	4.65	1.20	5.12	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	2/24/1997	8.87	4.81	1.10	4.89	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	3/10/1997	8.87	4.60	0.95	4.98	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	3/17/1997	8.87	4.50	0.89	5.04	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	3/31/1997	8.87	4.65	1.00	4.97	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	4/15/1997	8.87	4.90	1.03	4.74	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	4/28/1997	8.87	4.78	0.03	4.11	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	5/15/1997	8.87	4.60	0.25	4.46	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	5/27/1997	8.87	4.50	0.25	4.56	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	6/9/1997	8.87	4.60	0.20	4.42	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	6/24/1997	8.87	4.50	0.25	4.56	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	7/9/1997	8.87	4.80	0.60	4.52	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	7/15/1997	8.87	4.63	0.42	4.56	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	7/21/1997	8.87	4.75	0.25	4.31	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	8/6/1997	8.87	4.50	0.10	4.45	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	8/20/1997	8.87	4.55	0.10	4.40	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	9/2/1997	8.87	4.75	0.05	4.16	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	10/9/1997	8.87	4.84	0.04	4.06	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	1/14/1998	8.87	3.90	0.94	5.68	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	2/12/1998	8.87	3.35	0.64	6.00	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	3/3/1998	8.87	4.51	0.02	4.38	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	4/1/1998	8.87	3.67	1.60	6.40	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	5/26/1998	8.87	4.11	0.50	5.14	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	6/15/1998	8.87	5.03	0.30	4.07	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	7/15/1998	8.87	4.56	0.05	4.35	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	8/21/1998	8.87	4.77	0.02	4.12	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	9/30/1998	8.87	5.08	0.03	3.81	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	10/16/1998	8.87	4.31	2.40	6.36	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	11/6/1998	8.87	3.98	0.17	5.02	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	11/25/1998	8.87	3.92	0.10	5.03	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	12/28/1998	8.87	3.90	0.20	5.12	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	1/25/1999	8.87	4.18	0.60	5.14	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	2/22/1999	8.87	4.07	0.22	4.97	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	3/22/1999	8.87	4.32	0.15	4.66	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	4/15/1999	8.87	4.23	0.95	5.35	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	5/28/1999	8.87	4.38	0.39	4.78	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	6/29/1999	8.87	4.12	0.02	4.77	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	7/14/1999	8.87	4.20	0.03	4.69	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	8/23/1999	8.87	4.51	0.24	4.54	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	9/30/1999	8.87	4.17	0.17	4.83	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH

TABLE 3
HISTORICAL GROUNDWATER GAUGING AND ANALYTICAL DATA
76 Station No. 5191/5043
449 HEGENBERGER RD
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)	TPHg (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (SW8021B) (ug/L)	MTBE (SW8260B) (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	Ethanol (ug/L)	1,2-Dibromoethane (EDB) (ug/L)	1,2-Dichloroethane (ug/L)
MW-6	10/21/1999	8.87	4.27	0.12	4.69	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	11/29/1999	8.87	4.18	NP	4.69	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/20/1999	8.87	4.26	0.01	4.62	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	1/20/2000	8.87	4.31	NP	4.56	**67,600**	**130,000**	**2,900**	**8,600**	**2,000**	**16,000**	ND	--	--	--	--	--	--	--	--
	2/26/2000	8.87	3.98	NP	4.89	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/31/2000	8.87	4.14	NP	4.73	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	4/13/2000	8.87	4.04	NP	4.83	**8,700**	**140,000**	**5,000**	**14,000**	**3,600**	**27,000**	**7,700**	--	--	--	--	--	--	--	--
	5/26/2000	8.87	4.41	NP	4.46	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/17/2000	8.87	4.35	NP	4.52	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	7/14/2000	8.87	4.47	NP	4.40	**133,000**	**259,000**	**7,670**	**13,700**	**6,860**	**40,700**	ND	ND	--	--	--	--	--	--	--
	8/24/2000	8.87	3.71	NP	5.16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/27/2000	8.87	4.33	NP	4.54	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/26/2000	8.87	4.32	NP	4.55	**61,000**	**110,000**	**7,000**	**6,200**	**3,700**	**12,000**	**670**	**43**	--	--	--	--	--	--	--
	1/3/2001	8.87	4.52	NP	4.35	**929**	**84,700**	**3,950**	**4,130**	**3,650**	**11,800**	ND	ND	--	--	--	--	--	--	--
	4/4/2001	8.87	4.29	NP	4.58	**18,000**	**69,800**	**2,060**	**2,840**	**3,650**	**10,900**	ND	**47.8**	ND	ND	ND	ND	ND	ND	ND
	7/17/2001	8.87	4.37	NP	4.50	**20,000**	**100,000**	**3,200**	**3,300**	**3,400**	**12,000**	ND	--	--	--	--	--	--	--	--
	10/1/2001	8.87	4.45	NP	4.42	**24,000**	**110,000**	**3,200**	**2,400**	**4,500**	**13,000**	<1000	--	--	--	--	--	--	--	--
	1/31/2002	8.87	4.03	NP	4.84	**11,000**	**230,000**	**2,400**	**1,800**	**5,400**	**16,000**	<2500	--	--	--	--	--	--	--	--
	4/18/2002	8.87	3.45	NP	5.42	**3,500**	**94,000**	**6,800**	**13,000**	**3,000**	**19,000**	<500	--	--	--	--	--	--	--	--
	7/28/2002	8.87	2.24	NP	6.63	**27,000**	**110,000**	**530**	**170**	**3,200**	**7,300**	--	<100	--	--	--	--	--	--	--
	10/9/2002	8.87	3.53	NP	5.34	**170,000**	**970,000**	**10,000**	**39,000**	**13,000**	**94,000**	--	<2000	--	--	--	--	--	--	--
	1/2/2003	8.87	2.34	NP	6.53	**66,000**	**270,000**	**6,100**	**15,000**	**5,400**	**37,000**	--	<200	--	--	--	--	--	--	--
	4/1/2003	8.87	3.17	NP	5.70	**35,000**	**3,000,000**	**8,000**	**39,000**	**37,000**	**260,000**	--	<2000	--	--	--	--	--	--	--
	7/1/2003	8.87	3.55	NP	5.32	**11,000**	**38,000**	**2,100**	**990**	**2,700**	**6,500**	--	<100	--	--	--	--	<25000	--	--
	10/2/2003	8.87	3.82	NP	5.05	<50	**100,000**	**5,600**	**6,900**	**4,700**	**18,000**	--	<800	--	--	--	--	<200000	--	--
	1/9/2004	8.87	2.80	NP	6.07	**20,000**	**170,000**	**2,800**	**3,300**	**4,700**	**16,000**	--	<200	--	--	--	--	<50000	--	--
	4/26/2004	8.87	3.40	NP	5.47	**13,000**	**97,000**	**5,900**	**9,000**	**5,100**	**23,000**	--	<50	--	--	--	--	<5000	--	--
	7/22/2004	8.87	3.54	NP	5.33	**33,000**	**110,000**	**4,100**	**5,100**	**4,000**	**16,000**	--	<200	--	--	--	--	<300000	--	--
	10/29/2004	8.87	3.03	NP	5.84	**78,000**	**100,000**	**5,200**	**6,100**	**4,200**	**15,000**	--	<50	--	--	--	--	<5000	--	--
	1/10/2005	8.87	2.35	NP	6.52	**12,000**	**71,000**	**1,600**	**3,700**	**2,100**	**9,900**	--	<50	--	--	--	--	<5000	--	--
	6/15/2005	8.87	2.47	NP	6.40	**16,000**	**130,000**	**800**	**1,800**	**2,200**	**9,300**	--	<50	--	--	--	--	<5000	--	--
	9/27/2005	8.87	2.55	NP	6.32	**2,500**	**13,000**	**82**	**120**	**430**	**990**	--	**0.56**	**1.8**	<0.50	<0.50	<10	<250	--	--
	12/13/2005	8.87	3.28	NP	5.59	**18,000**	**68,000**	**1,500**	**1,100**	**2,200**	**7,700**	--	<50	--	--	--	--	<25000	--	--
	3/23/2006	8.87	2.87	NP	6.00	**73,000**	**41,000**	**290**	**140**	**1,500**	**2,700**	--	<50	--	--	--	--	<25000	--	--
	6/23/2006	8.87	3.15	NP	5.72	**35,000**	**50,000**	**2,200**	**1,400**	**1,900**	**5,700**	--	<12	--	--	--	--	<6200	--	--
	9/26/2006	8.87	3.08	NP	5.79	**22,000**	**130,000**	**2,200**	**1,000**	**2,900**	**8,800**	--	<50	--	--	--	--	<25000	--	--
	12/22/2006	8.87	2.90	NP	5.97	**62,000**	**90,000**	**940**	**610**	**1,900**	**4,700**	--	<50	--	--	--	--	<25000	--	--
	3/30/2007	8.87	3.26	NP	5.61	**62,000**	**210,000**	**1,100**	**560**	**3,400**	**12,000**	--	<10	--	--	--	--	<5000	--	--
	6/28/2007	8.87	3.46	NP	5.41	**71,000**	**67,000**	**2,200**	**1,300**	**2,700**	**10,000**	--	<25	--	--	--	--	<12000	--	--
	9/25/2007	8.87	3.52	NP	5.35	**58,000**	**56,000**	**2,900**	**720**	**2,400**	**9,000**	--	<25	--	--	--	--	<12000	--	--
	12/28/2007	8.87	3.27	NP	5.60	**18,000**	**78,000**	**28,000**	**2,700**	**4,000**	**8,100**	--	**16,000**	--	--	--	--	<12000	--	--
	3/22/2008	8.87	2.48	NP	6.39	**68,000**	**66,000**	**380**	**150**	**1,500**	**2,400**	--	<25	--	--	--	--	<12000	--	--
	6/23/2008	8.87	3.54	NP	5.33	**68,000**	**59,000**	**1,600**	**130**	**1,800**	**4,100**	--	**25**	--	--	--	--	<12000	--	--
	9/19/2008	8.87	4.06	NP	4.81	**180,000**	**65,000**	**2,000**	**230**	**2,000**	**4,500**	--	<12	--	--	--	--	<6200	--	--
	12/31/2008	8.87	3.45	NP	5.42	**68,000**	**91,000**	**2,000**	**320**	**5,300**	**13,000**	--	<50	--	--	--	--	<25000	--	--
	3/27/2009	8.87	3.09	NP	5.78	**170,000**	**150,000**	**1,300**	**240**	**2,800**	**7,200**	--	<50	--	--	--	--	<25000	--	--
	5/28/2009	8.87	3.49	NP	5.38	**78,000**	**53,000**	**1,700**	**200**	**2,300**	**5,400**	--	<50	--	--	--	--	<25000	--	--
	9/17/2009	8.87	3.64	NP	5.23	**250000 T4**	**77,000**	**2,100**	**1,400**	**2,600**	**8,500**	--	<12	--	--	--	--	<6200	--	--
	12/17/2009	8.87	3.14	NP	5.73	**30,300**	**59,100**	**1,730**	**199**	**2,260**	**5,460**	--	**20.3**	--	--	--	--	<250	--	--
	3/29/2010	8.87	3.16	NP	5.71	**106,000**	**48,400**	**1,980**	**208**	**3,070**	**8,070**	--	**12.1**	--	--	--	--	<250	--	--

TABLE 3
HISTORICAL GROUNDWATER GAUGING AND ANALYTICAL DATA
76 Station No. 5191/5043
449 HEGENBERGER RD
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)	TPHg (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (SW8021B) (ug/L)	MTBE (SW8260B) (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	Ethanol (ug/L)	1,2-Dibromoethane (EDB) (ug/L)	1,2-Dichloroethane (ug/L)
MW-6	6/30/2010	11.55	3.50	NP	8.05	**170,000**	**78,700**	**2,130**	**281**	**2,860**	**8,400**	--	**5.8**	--	--	--	--	<250	--	--
	7/6/2010	11.55	3.49	NP	8.06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/20/2010	11.55	3.75	NP	7.80	**18,800**	**64,500**	**2,300**	**170**	**2,770**	**6,260**	--	**19.3**	--	--	--	--	<250	--	--
	12/8/2010	11.55	8.42	NP	3.13	**28,700**	**78,400**	**1,300**	**1,680**	**3,490**	**20,600**	--	**11.3**	--	--	--	--	<250	--	--
	3/14/2011	11.55	3.40	NP	8.15	**93,000**	**44,600**	**912**	**338**	**728**	**3,670**	--	**16.3**	--	--	--	**134**	<250	--	--
	6/2/2011	11.55	2.76	NP	8.79	**33,700 T4**	**56,200**	**780**	**262**	**651**	**3,890**	--	**6.7**	--	--	--	**81.0**	<250	--	--
	9/7/2011	11.55	2.83	NP	8.72	**6,780 T4**	**16,600**	**16**	**11**	**90**	**339**	--	<0.50	--	--	--	--	<250	--	--
	12/5/2011	11.55	3.56	NP	7.99	**20,200 T4**	**64,600**	**646**	**95**	**924**	**4,050**	--	**14.9**	--	--	--	--	<250	--	--
	3/6/2012	11.55	3.43	NP	8.12	**14,800 T4**	**55,000**	**1,020**	**131**	**1,320**	**4,730**	--	**18.5**	--	--	--	**316**	<1250	--	--
	6/11/2012	11.55	3.33	NP	8.22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/12/2012	--	--	--	--	**47,100 T4**	**33,400**	**773**	**60.8**	**840**	**3,110**	--	**11.4**	--	--	--	**123**	<250	--	--
MW-7	5/27/1997	8.83	4.50	NP	4.33	--	**68**	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
	6/1/1997	8.83	4.54	NP	4.29	**69**	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	7/15/1997	8.83	4.70	NP	4.13	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
	10/9/1997	8.83	4.30	NP	4.53	**190**	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
	1/14/1998	8.83	2.88	NP	5.95	**65**	ND	ND	ND	ND	ND	**36**	--	--	--	--	--	--	--	--
	4/1/1998	8.83	3.13	NP	5.70	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
	7/15/1998	8.83	4.45	NP	4.38	**74**	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
	10/16/1998	8.83	3.45	NP	5.38	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
	1/25/1999	8.83	3.22	NP	5.61	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
	4/15/1999	8.83	3.11	NP	5.72	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
	7/14/1999	8.83	3.34	NP	5.49	**69**	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
	10/21/1999	8.83	3.43	NP	5.40	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
	1/20/2000	8.83	3.29	NP	5.54	ND	ND	ND	ND	ND	ND	**4.2**	--	--	--	--	--	--	--	--
	4/13/2000	8.83	3.39	NP	5.44	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
	7/14/2000	8.83	4.42	NP	4.41	**68.0**	ND	ND	ND	ND	ND	**7.83**	--	--	--	--	--	--	--	--
	7/17/2001	8.83	5.06	NP	3.77	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
	10/1/2001	8.83	4.98	NP	3.85	<51	<50	<0.50	<0.50	<0.50	<0.50	<5.0	--	--	--	--	--	--	--	--
	1/31/2002	8.83	3.88	NP	4.95	**90**	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--	--	--	--	--	--	--
	4/18/2002	8.83	4.03	NP	4.80	**78**	<50	<0.50	<0.50	<0.50	<0.50	**5.7**	--	--	--	--	--	--	--	--
	7/28/2002	8.83	3.59	NP	5.24	<50	<50	<0.50	<0.50	<0.50	<1.0	--	**3.9**	--	--	--	--	--	--	--
	10/9/2002	8.83	4.53	NP	4.30	<96	<50	<0.50	<0.50	<0.50	<1.0	--	**3.9**	--	--	--	--	--	--	--
	1/3/2003	8.83	3.36	NP	5.47	**78**	<50	<0.50	<0.50	<0.50	<1.0	--	<2.0	--	--	--	--	--	--	--
	4/1/2003	8.83	3.94	NP	4.89	**67**	**71**	<0.50	<0.50	**0.71**	<1.0	--	**3.4**	--	--	--	--	--	--	--
	7/1/2003	8.83	4.60	NP	4.23	**68**	**64**	<0.50	<0.50	**0.77**	**2.0**	--	**35**	--	--	--	--	<500	--	--
	10/2/2003	8.83	5.46	NP	3.37	**82**	<50	<0.50	<0.50	<0.50	<1.0	--	**4.9**	--	--	--	--	<500	--	--
	1/9/2004	8.83	3.55	NP	5.28	**75**	**54**	<0.50	<0.50	<0.50	<1.0	--	**2.4**	--	--	--	--	<500	--	--
	4/26/2004	8.83	4.49	NP	4.34	<50	<50	<0.50	<0.50	<0.50	**1.5**	--	**2.3**	--	--	--	--	<50	--	--
	7/22/2004	8.83	4.93	NP	3.90	<200	**82**	**0.90**	**2.0**	**3.5**	**9.9**	--	**1.4**	--	--	--	--	<1000	--	--
	10/29/2004	8.83	3.71	NP	5.12	**54**	**210**	**0.67**	**1.6**	**1.7**	**5.8**	--	<0.50	--	--	--	--	<50	--	--
	1/10/2005	8.83	2.77	NP	6.06	<50	**74**	**0.51**	**2.2**	**1.7**	**7.0**	--	<0.50	--	--	--	--	<50	--	--
	6/15/2005	8.83	3.40	NP	5.43	<50	<50	<0.50	<0.50	<0.50	<1.0	--	**0.88**	--	--	--	--	<50	--	--
	9/27/2005	8.83	3.44	NP	5.39	<200	<50	**0.59**	**1.2**	<0.50	<1.0	--	**0.96**	<0.50	<0.50	<0.50	<10	<250	--	--
	12/13/2005	8.83	3.98	NP	4.85	<200	<50	<0.50	<0.50	<0.50	<1.0	--	**0.65**	--	--	--	--	<250	--	--
	3/23/2006	8.83	3.37	NP	5.46	<200	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<250	--	--
	6/23/2006	8.83	5.25	NP	3.58	<200	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<250	--	--
	9/26/2006	8.83	4.13	NP	4.70	<50	<50	<0.50	<0.50	<0.50	<0.50	--	**0.77**	--	--	--	--	<250	--	--
	12/22/2006	8.83	3.63	NP	5.20	**630**	<50	<0.50	<0.50	<0.50	<0.50	--	<0.50	--	--	--	--	<250	--	--
	3/30/2007	8.83	4.31	NP	4.52	**94**	<50	<0.50	<0.50	<0.50	<0.50	--	<0.50	--	--	--	--	<250	--	--
	6/28/2007	8.83	4.62	NP	4.21	<50	<50	<0.50	<0.50	<0.50	<0.50	--	**0.54**	--	--	--	--	<250	--	--
	9/25/2007	8.83	4.65	NP	4.18	<50	<50	<0.50	<0.50	<0.50	<0.50	--	<0.50	--	--	--	--	<250	--	--
	12/28/2007	8.83	3.99	NP	4.84	**75**	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<250	--	--
	3/22/2008	8.83	4.08	NP	4.75	<50	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<250	--	--

TABLE 3
HISTORICAL GROUNDWATER GAUGING AND ANALYTICAL DATA
76 Station No. 5191/5043
449 HEGENBERGER RD
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)	TPHg (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (SW8021B) (ug/L)	MTBE (SW8260B) (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	Ethanol (ug/L)	1,2-Dibromoethane (EDB) (ug/L)	1,2-Dichloroethane (ug/L)
MW-7	6/23/2008	8.83	4.10	NP	4.73	<50	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<250	--	--
	9/19/2008	8.83	4.86	NP	3.97	<50	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<250	--	--
	12/31/2008	8.83	4.17	NP	4.66	<50	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<250	--	--
	3/27/2009	8.83	4.00	NP	4.83	<50	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<250	--	--
	5/28/2009	8.83	4.71	NP	4.12	<50	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<250	--	--
	9/17/2009	8.83	4.87	NP	3.96	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/29/2010	8.83	WI	WI	WI	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/30/2010	11.64	4.45	NP	7.19	**66.0**	<50.0	<0.50	<0.50	<0.50	<1.5	--	<0.50	--	--	--	--	<250	--	--
	7/6/2010	11.64	4.63	NP	7.01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/20/2010	11.64	4.85	NP	6.79	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/8/2010	11.64	3.99	NP	7.65	**57.7**	<50.0	<0.50	<0.50	<0.50	<1.5	--	<0.50	--	--	--	--	<250	--	--
	3/14/2011	11.64	3.81	NP	7.83	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/2/2011	11.64	3.90	NP	7.74	**63.0 T4**	<50.0	<0.50	<0.50	<0.50	<1.5	--	<0.50	--	--	--	<5.0	<250	--	--
	9/7/2011	11.64	3.72	NP	7.92	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/5/2011	11.64	4.60	NP	7.04	<50.0	<50.0	<0.50	<0.50	<0.50	<1.5	--	<0.50	--	--	--	--	<250	--	--
	3/6/2012	11.64	4.54	NP	7.10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/11/2012	11.64	4.93	NP	6.71	<37.9	<50.0	<0.50	<0.50	<0.50	<1.5	--	<0.50	--	--	--	<5.0	<250	--	--
MW-8	5/27/1997	8.52	3.42	NP	5.10	--	**310**	**0.88**	**0.67**	**15**	**70**	ND	--	--	--	--	--	--	--	--
	6/1/1997	8.52	3.46	NP	5.06	**320**	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	7/15/1997	8.52	3.49	NP	5.03	ND	ND	ND	ND	**2.7**	**3.8**	ND	--	--	--	--	--	--	--	--
	10/9/1997	8.52	3.73	NP	4.79	**390**	**590**	**1.4**	ND	**32**	**4.1**	ND	--	--	--	--	--	--	--	--
	1/14/1998	8.52	1.92	NP	6.60	**230**	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
	4/1/1998	8.52	2.38	NP	6.14	**510**	ND	ND	ND	ND	ND	**4.7**	--	--	--	--	--	--	--	--
	7/15/1998	8.52	3.53	NP	4.99	**140**	ND	ND	ND	**0.56**	**1.1**	ND	--	--	--	--	--	--	--	--
	10/16/1998	8.52	3.04	NP	5.48	**170**	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
	1/25/1999	8.52	2.92	NP	5.60	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
	4/15/1999	8.52	2.40	NP	6.12	**91**	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
	7/14/1999	8.52	3.03	NP	5.49	**120**	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
	10/21/1999	8.52	3.11	NP	5.41	**110**	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
	1/20/2000	8.52	3.06	NP	5.46	**583**	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
	4/13/2000	8.52	2.84	NP	5.68	**80**	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
	7/14/2000	8.52	3.39	NP	5.13	**113**	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
	7/17/2001	8.52	3.46	NP	5.06	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
	10/1/2001	8.52	3.51	NP	5.01	<50	<50	<0.50	<0.50	<0.50	<0.50	<5.0	--	--	--	--	--	--	--	--
	1/31/2002	8.52	2.75	NP	5.77	**260**	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--	--	--	--	--	--	--
	4/18/2002	8.52	2.98	NP	5.54	**160**	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--	--	--	--	--	--	--
	7/28/2002	8.52	2.41	NP	6.11	**140**	<50	<0.50	<0.50	<0.50	<1.0	--	<2.0	--	--	--	--	--	--	--
	10/9/2002	8.52	2.09	NP	6.43	**120**	<50	<0.50	<0.50	<0.50	<1.0	--	<2.0	--	--	--	--	--	--	--
	1/2/2003	8.52	1.98	NP	6.54	**210**	<50	<0.50	<0.50	<0.50	<1.0	--	<2.0	--	--	--	--	--	--	--
	4/1/2003	8.52	2.66	NP	5.86	**220**	<50	<0.50	<0.50	<0.50	<1.0	--	<2.0	--	--	--	--	--	--	--
	7/1/2003	8.52	3.08	NP	5.44	**170**	<50	<0.50	<0.50	<0.50	<1.0	--	<2.0	--	--	--	--	<500	--	--
	10/2/2003	8.52	3.89	NP	4.63	**350**	**540**	**3.9**	**15**	**29**	**80**	--	<2.0	--	--	--	--	<500	--	--
	1/9/2004	8.52	2.38	NP	6.14	**180**	<50	<0.50	<0.50	<0.50	<1.0	--	<2.0	--	--	--	--	<500	--	--
	4/26/2004	8.52	2.89	NP	5.63	**100**	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<50	--	--
	7/22/2004	8.52	3.25	NP	5.27	**250**	<50	<0.5	<0.5	<0.5	<1	--	<0.5	--	--	--	--	<1000	--	--
	10/29/2004	8.52	3.06	NP	5.46	**120**	<50	<0.50	<0.50	**0.82**	**2.5**	--	<0.50	--	--	--	--	<50	--	--
	1/10/2005	8.52	1.92	NP	6.60	**140**	**58**	<0.50	**0.61**	**1.2**	**4.0**	--	<0.50	--	--	--	--	<50	--	--
	6/15/2005	8.52	2.22	NP	6.30	**140**	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<50	--	--
	9/27/2005	8.52	2.43	NP	6.09	<200	<50	<0.50	<0.50	**1.2**	<1.0	--	<0.50	<0.50	<0.50	<0.50	<10	<250	--	--
	12/13/2005	8.52	2.89	NP	5.63	<200	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<250	--	--
	3/23/2006	8.52	2.12	NP	6.40	<200	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<250	--	--
	6/23/2006	8.52	2.65	NP	5.87	<230	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<250	--	--

TABLE 3
HISTORICAL GROUNDWATER GAUGING AND ANALYTICAL DATA
76 Station No. 5191/5043
449 HEGENBERGER RD
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)	TPHg (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (SW8021B) (ug/L)	MTBE (SW8260B) (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	Ethanol (ug/L)	1,2-Dibromoethane (EDB) (ug/L)	1,2-Dichloroethane (ug/L)
MW-8	9/26/2006	8.52	2.75	NP	5.77	**110**	<50	<0.50	<0.50	<0.50	<0.50	--	<0.50	--	--	--	--	<250	--	--
	12/22/2006	8.52	2.58	NP	5.94	**100**	<50	<0.50	<0.50	<0.50	<0.50	--	<0.50	--	--	--	--	<250	--	--
	3/30/2007	8.52	2.74	NP	5.78	**120**	<50	<0.50	<0.50	<0.50	<0.50	--	<0.50	--	--	--	--	<250	--	--
	6/28/2007	8.52	2.90	NP	5.62	**140**	<50	<0.50	<0.50	<0.50	<0.50	--	<0.50	--	--	--	--	<250	--	--
	9/25/2007	8.52	3.26	NP	5.26	**110**	<50	<0.50	<0.50	<0.50	<0.50	--	<0.50	--	--	--	--	<250	--	--
	12/28/2007	8.52	2.64	NP	5.88	**110**	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<250	--	--
	3/22/2008	8.52	2.31	NP	6.21	<50	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<250	--	--
	6/23/2008	8.52	3.13	NP	5.39	<58	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<250	--	--
	9/19/2008	8.52	3.72	NP	4.80	**79**	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<250	--	--
	12/31/2008	8.52	2.98	NP	5.54	**110**	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<250	--	--
	3/27/2009	8.52	2.49	NP	6.03	**89**	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<250	--	--
	5/28/2009	8.52	3.12	NP	5.40	**91**	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<250	--	--
	9/17/2009	8.52	3.63	NP	4.89	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/29/2010	8.52	WI	WI	WI	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/30/2010	11.32	2.60	NP	8.72	**182**	<50.0	<0.50	<0.50	<0.50	<1.5	--	<0.50	--	--	--	--	<250	--	--
	7/6/2010	11.32	3.03	NP	8.29	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/20/2010	11.32	3.33	NP	7.99	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/8/2010	11.32	2.82	NP	8.50	**116**	<50.0	<0.50	<0.50	<0.50	<1.5	--	<0.50	--	--	--	--	<250	--	--
	3/14/2011	11.32	3.84	NP	7.48	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/2/2011	11.32	2.77	NP	8.55	**168 T4**	<50.0	<0.50	<0.50	<0.50	<1.5	--	<0.50	--	--	--	<5.0	<250	--	--
	9/7/2011	11.32	2.84	NP	8.48	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/5/2011	11.32	2.68	NP	8.64	<50.0	<50.0	<0.50	<0.50	<0.50	<1.5	--	<0.50	--	--	--	--	<250	--	--
	3/6/2012	11.32	3.07	NP	8.25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/11/2012	11.32	3.08	NP	8.24	<37.9	<50.0	<0.50	<0.50	<0.50	<1.5	--	<0.50	--	--	--	**8.3**	<250	--	--
MW-9	2/21/1995	8.29	1.98	NP	6.31	**71**	**70**	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
	5/18/1995	8.29	3.47	NP	4.82	ND	**52**	ND	**1.1**	ND	**1.9**	--	--	--	--	--	--	--	--	--
	8/17/1995	8.29	1.49	NP	6.80	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
	7/26/1996	8.29	0.28	NP	8.01	**98**	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
	10/28/1996	8.29	1.15	NP	7.14	**99**	ND	ND	ND	ND	ND	**7.6**	--	--	--	--	--	--	--	--
	1/29/1997	8.29	1.05	NP	7.24	**54**	ND	ND	ND	ND	ND	**5.4**	--	--	--	--	--	--	--	--
	4/15/1997	8.29	1.88	NP	6.41	**94**	ND	ND	ND	ND	ND	**5.4**	--	--	--	--	--	--	--	--
	5/27/1997	8.29	1.05	NP	7.24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	7/15/1997	8.29	1.90	NP	6.39	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
	10/9/1997	8.29	1.76	NP	6.53	**160**	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
	1/14/1998	8.29	1.26	NP	7.03	**110**	ND	ND	ND	ND	ND	**3.0**	--	--	--	--	--	--	--	--
	4/1/1998	8.29	0.85	NP	7.44	**110**	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
	7/15/1998	8.29	1.52	NP	6.77	**200**	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
	10/16/1998	8.29	0.81	NP	7.48	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
	1/25/1999	8.29	0.92	NP	7.37	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
	4/15/1999	8.29	0.90	NP	7.39	ND	**75**	**21**	ND	ND	**1.1**	**680**	--	--	--	--	--	--	--	--
	7/14/1999	8.29	1.04	NP	7.25	**140**	ND	**1.9**	ND	ND	ND	**260**	--	--	--	--	--	--	--	--
	10/21/1999	8.29	1.23	NP	7.06	**210**	ND	ND	ND	ND	ND	**170**	--	--	--	--	--	--	--	--
	1/20/2000	8.29	1.18	NP	7.11	**519**	ND	**1.1**	ND	ND	ND	**35**	--	--	--	--	--	--	--	--
	4/13/2000	8.29	1.08	NP	7.21	**81**	**160**	**0.64**	ND	ND	ND	**53**	--	--	--	--	--	--	--	--
	7/14/2000	8.29	1.43	NP	6.86	**107**	ND	ND	ND	ND	ND	**20.2**	--	--	--	--	--	--	--	--
	10/26/2000	8.29	1.38	NP	6.91	**240**	**240**	**2.9**	ND	ND	ND	**56**	--	--	--	--	--	--	--	--
	1/3/2001	8.29	1.66	NP	6.63	**164**	**166**	**0.763**	**0.776**	ND	**1.28**	**50.2**	--	--	--	--	--	--	--	--
	4/4/2001	8.29	1.27	NP	7.02	**240**	**296**	**0.738**	ND	ND	**0.907**	**135**	--	--	--	--	--	--	--	--
	7/17/2001	8.29	1.38	NP	6.91	ND	ND	ND	ND	ND	ND	**13**	--	--	--	--	--	--	--	--
	10/1/2001	8.29	1.93	NP	6.36	<52	**51**	<0.50	<0.50	<0.50	<0.50	**5.0**	--	--	--	--	--	--	--	--
	1/31/2002	8.29	2.08	NP	6.21	**200**	<50	<0.50	<0.50	<0.50	<0.50	**5.8**	--	--	--	--	--	--	--	--
	4/18/2002	8.29	1.76	NP	6.53	<50	<50	<0.50	<0.50	<0.50	<0.50	**5.1**	--	--	--	--	--	--	--	--

TABLE 3
HISTORICAL GROUNDWATER GAUGING AND ANALYTICAL DATA
76 Station No. 5191/5043
449 HEGENBERGER RD
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)	TPHg (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (SW8021B) (ug/L)	MTBE (SW8260B) (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	Ethanol (ug/L)	1,2-Dibromoethane (EDB) (ug/L)	1,2-Dichloroethane (ug/L)
MW-9	7/28/2002	8.29	1.57	NP	6.72	<50	<50	<0.50	<0.50	<0.50	<1.0	--	**3.5**	--	--	--	--	--	--	--
	10/9/2002	8.29	1.45	NP	6.84	**100**	<50	<0.50	<0.50	<0.50	<1.0	--	**17**	--	--	--	--	--	--	--
	1/2/2003	8.29	1.18	NP	7.11	<50	<50	<0.50	<0.50	<0.50	<1.0	--	**8.6**	--	--	--	--	--	--	--
	4/1/2003	8.29	2.04	NP	6.25	**56**	<50	<0.50	<0.50	<0.50	<1.0	--	**9.4**	--	--	--	--	--	--	--
	7/1/2003	8.29	2.80	NP	5.49	<50	<50	<0.50	<0.50	<0.50	<1.0	--	**3.2**	--	--	--	--	<500	--	--
	10/2/2003	8.29	2.70	NP	5.59	<50	<50	<0.50	<0.50	<0.50	<1.0	--	<2.0	--	--	--	--	<500	--	--
	1/9/2004	8.29	1.90	NP	6.39	**91**	**74**	<0.50	**0.98**	**2.3**	**6.2**	--	<2.0	--	--	--	--	<500	--	--
	4/26/2004	8.29	1.62	NP	6.67	<50	**51**	<0.50	<0.50	<0.50	<1.0	--	**0.51**	--	--	--	--	<50	--	--
	7/22/2004	8.29	1.88	NP	6.41	<200	<50	<0.5	<0.5	<0.5	<1	--	**0.78**	--	--	--	--	<1000	--	--
	10/29/2004	8.29	1.28	NP	7.01	**76**	<50	<0.50	<0.50	<0.50	**1.0**	--	<0.50	--	--	--	--	<50	--	--
	1/10/2005	8.29	0.07	NP	8.22	**77**	**93**	**0.60**	**2.3**	**2.4**	**9.0**	--	<0.50	--	--	--	--	<50	--	--
	6/15/2005	8.29	1.70	NP	6.59	**67**	<50	<0.50	<0.50	<0.50	<1.0	--	**6.6**	--	--	--	--	<50	--	--
	9/27/2005	8.29	1.98	NP	6.31	<200	<50	<0.50	**0.73**	<0.50	<1.0	--	**2.3**	<0.50	<0.50	<0.50	<10	<250	--	--
	12/13/2005	8.29	2.26	NP	6.03	<200	<50	<0.50	<0.50	<0.50	<1.0	--	**2.9**	--	--	--	--	<250	--	--
	3/23/2006	8.29	1.32	NP	6.97	<200	<50	<0.50	<0.50	<0.50	<1.0	--	**2.7**	--	--	--	--	<250	--	--
	6/23/2006	8.29	1.98	NP	6.31	<200	<50	<0.50	<0.50	<0.50	<1.0	--	**1.9**	--	--	--	--	<250	--	--
	9/26/2006	8.29	2.52	NP	5.77	<50	<50	<0.50	<0.50	<0.50	<0.50	--	<0.50	--	--	--	--	<250	--	--
	12/22/2006	8.29	1.98	NP	6.31	**150**	<50	<0.50	**0.57**	**1.8**	**4.6**	--	**1.6**	--	--	--	--	<250	--	--
	3/30/2007	8.29	2.01	NP	6.28	**72**	<50	<0.50	<0.50	<0.50	<0.50	--	**3.4**	--	--	--	--	<250	--	--
	6/28/2007	8.29	1.90	NP	6.39	**1,000**	<50	<0.50	<0.50	<0.50	<0.50	--	**4.9**	--	--	--	--	<250	--	--
	9/25/2007	8.29	1.57	NP	6.72	**100**	<50	<0.50	<0.50	<0.50	<0.50	--	<0.50	--	--	--	--	<250	--	--
	12/28/2007	8.29	1.98	NP	6.31	**56**	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<250	--	--
	3/22/2008	8.29	0.80	NP	7.49	<50	<50	<0.50	<0.50	<0.50	<1.0	--	**0.61**	--	--	--	--	<250	--	--
	6/23/2008	8.29	1.80	NP	6.49	<50	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<250	--	--
	9/19/2008	8.29	2.43	NP	5.86	**56**	<50	<0.50	<0.50	<0.50	<1.0	--	**3.9**	--	--	--	--	<250	--	--
	12/31/2008	8.29	2.66	NP	5.63	<50	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<250	--	--
	3/27/2009	8.29	2.01	NP	6.28	<50	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<250	--	--
	5/28/2009	8.29	2.20	NP	6.09	<50	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<250	--	--
	9/17/2009	8.29	1.83	NP	6.46	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/17/2009	8.29	1.52	NP	6.77	**105**	<50.0	<0.50	<0.50	<0.50	<1.5	--	<0.50	--	--	--	--	<250	--	--
	3/29/2010	8.29	2.21	NP	6.08	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/30/2010	10.94	2.32	NP	8.62	**95.0**	<50.0	<0.50	<0.50	<0.50	<1.5	--	**0.85**	--	--	--	--	<250	--	--
	7/6/2010	10.94	2.02	NP	8.92	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/20/2010	10.94	2.03	NP	8.91	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/8/2010	10.94	1.77	NP	9.17	<50.0	<50.0	<0.50	<0.50	<0.50	<1.5	--	<0.50	--	--	--	--	<250	--	--
	3/14/2011	10.94	2.24	NP	8.70	<50.0	<50.0	<0.50	<0.50	<0.50	<1.5	--	<0.50	--	--	--	<5.0	<250	--	--
	6/2/2011	10.94	2.24	NP	8.70	<50.0	<50.0	<0.50	<0.50	<0.50	<1.5	--	<0.50	--	--	--	<5.0	<250	--	--
	9/7/2011	10.94	2.46	NP	8.48	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/5/2011	10.94	2.43	NP	8.51	<50.0	<50.0	<0.50	<0.50	<0.50	<1.5	--	**4.0**	--	--	--	--	<250	--	--
	3/6/2012	10.94	3.03	NP	7.91	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/11/2012	10.94	1.75	NP	9.19	<37.9	<0.50	<0.50	<0.50	<0.50	<1.5	--	<0.50	--	--	--	<5.0	<250	--	--
MW-10	2/21/1995	8.62	4.69	NP	3.93	**270**	**1,500**	**250**	**26**	**9.1**	**160**	--	--	--	--	--	--	--	--	--
	5/18/1995	8.62	4.92	NP	3.70	**75**	**810**	**520**	ND	**18**	**23**	--	--	--	--	--	--	--	--	--
	8/17/1995	8.62	4.05	NP	4.57	ND	**67**	**25**	ND	**2.4**	ND	--	--	--	--	--	--	--	--	--
	7/26/1996	8.62	4.08	NP	4.54	ND	ND	**3.7**	ND	ND	ND	ND	--	--	--	--	--	--	--	--
	10/28/1996	8.62	4.09	NP	4.53	ND	ND	**1.1**	ND	ND	ND	ND	--	--	--	--	--	--	--	--
	1/29/1997	8.62	2.94	NP	5.68	ND	**210**	**41**	**0.67**	**7.2**	**4.8**	**11**	--	--	--	--	--	--	--	--
	4/15/1997	8.62	4.07	NP	4.55	ND	**110**	**12**	ND	**0.77**	ND	**9.7**	--	--	--	--	--	--	--	--
	5/27/1997	8.62	4.40	NP	4.22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	7/15/1997	8.62	4.19	NP	4.43	ND	ND	**2.1**	ND	**0.67**	**0.73**	ND	--	--	--	--	--	--	--	--
	10/9/1997	8.62	4.75	NP	3.87	ND	**190**	**38**	**0.92**	**6.6**	**7.6**	ND	--	--	--	--	--	--	--	--

TABLE 3
HISTORICAL GROUNDWATER GAUGING AND ANALYTICAL DATA
76 Station No. 5191/5043
449 HEGENBERGER RD
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)	TPHg (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (SW8021B) (ug/L)	MTBE (SW8260B) (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	Ethanol (ug/L)	1,2-Dibromoethane (EDB) (ug/L)	1,2-Dichloroethane (ug/L)
MW-10	1/14/1998	8.62	2.66	NP	5.96	--	**59**	**9.5**	**0.85**	**1.2**	**1.7**	**4.5**	--	--	--	--	--	--	--	--
	4/1/1998	8.62	3.45	NP	5.17	**62**	**230**	**66**	**1.7**	**12**	**17**	**6.4**	--	--	--	--	--	--	--	--
	7/15/1998	8.62	4.21	NP	4.41	**78**	**290**	**98**	**45**	**21**	**38**	**21**	--	--	--	--	--	--	--	--
	10/16/1998	8.62	4.11	NP	4.51	ND	**160**	**44**	**0.96**	**2.5**	**10**	**17**	--	--	--	--	--	--	--	--
	1/25/1999	8.62	3.26	NP	5.36	ND	**140**	**27**	ND	**2.8**	**6.8**	**23**	--	--	--	--	--	--	--	--
	4/15/1999	8.62	3.63	NP	4.99	ND	**120**	**18**	ND	**1.8**	**5.1**	**14**	--	--	--	--	--	--	--	--
	7/14/1999	8.62	3.89	NP	4.73	**180**	**280**	**55**	**3.2**	**11**	**31**	**6.1**	--	--	--	--	--	--	--	--
	10/21/1999	8.62	4.09	NP	4.53	**96**	**140**	**22**	**0.59**	**1.7**	**7.7**	**5.3**	--	--	--	--	--	--	--	--
	1/20/2000	8.62	3.92	NP	4.70	**252**	ND	**0.73**	**0.86**	ND	ND	**5.2**	--	--	--	--	--	--	--	--
	4/13/2000	8.62	3.85	NP	4.77	**69**	**67**	**54**	ND	**2.6**	ND	**3.8**	--	--	--	--	--	--	--	--
	7/14/2000	8.62	4.18	NP	4.44	**149**	ND	**0.547**	ND	ND	ND	ND	--	--	--	--	--	--	--	--
	10/26/2000	8.62	3.96	NP	4.66	**83**	ND	**3.3**	ND	**0.83**	**1.5**	ND	--	--	--	--	--	--	--	--
	1/3/2001	8.62	4.14	NP	4.48	**126**	**52.7**	**5.15**	ND	**0.823**	**1.57**	ND	--	--	--	--	--	--	--	--
	4/4/2001	8.62	3.88	NP	4.74	**75**	**129**	**28.1**	**1.67**	**4.97**	**10.1**	ND	--	--	--	--	--	--	--	--
	7/17/2001	8.62	4.08	NP	4.54	ND	ND	**4.1**	ND	**1.0**	**1.8**	ND	--	--	--	--	--	--	--	--
	10/1/2001	8.62	4.22	NP	4.40	**100**	**140**	**30**	**0.51**	**4.0**	**12**	<5.0	--	--	--	--	--	--	--	--
	1/31/2002	8.62	3.68	NP	4.94	**170**	**110**	**16**	<0.50	**2.3**	**5.6**	<2.5	--	--	--	--	--	--	--	--
	4/18/2002	8.62	4.01	NP	4.61	**130**	<50	**11**	<0.50	**1.4**	**4.5**	<2.5	--	--	--	--	--	--	--	--
	7/28/2002	8.62	4.11	NP	4.51	**58**	**67**	**15**	<0.50	**0.94**	**7.3**	--	<2.0	--	--	--	--	--	--	--
	10/9/2002	8.62	3.97	NP	4.65	<94	<50	**0.67**	<0.50	<0.50	<1.0	--	<2.0	--	--	--	--	--	--	--
	1/2/2003	8.62	3.03	NP	5.59	**64**	<50	<0.50	<0.50	<0.50	<1.0	--	<2.0	--	--	--	--	--	--	--
	4/1/2003	8.62	3.83	NP	4.79	**76**	<50	**11**	<0.50	<0.50	<1.0	--	<2.0	--	--	--	--	--	--	--
	7/1/2003	8.62	4.13	NP	4.49	**87**	<50	<0.50	<0.50	<0.50	<1.0	--	<2.0	--	--	--	--	<500	--	--
	10/2/2003	8.62	4.05	NP	4.57	**160**	**77**	**9.9**	**0.78**	**2.3**	**4.9**	--	<2.0	--	--	--	--	<500	--	--
	1/9/2004	8.62	3.40	NP	5.22	**74**	**53**	**1.2**	<0.50	**0.70**	**1.6**	--	<2.0	--	--	--	--	<500	--	--
	4/26/2004	8.62	3.89	NP	4.73	<50	<50	**2.8**	**1.3**	**1.0**	**2.9**	--	<0.50	--	--	--	--	<50	--	--
	7/22/2004	8.62	3.73	NP	4.89	<200	<50	<0.5	<0.5	<0.5	<1	--	<0.5	--	--	--	--	<1000	--	--
	10/29/2004	8.62	3.41	NP	5.21	<50	**100**	**2.0**	**1.2**	**1.1**	**3.6**	--	<0.50	--	--	--	--	<50	--	--
	1/10/2005	8.62	2.68	NP	5.94	**94**	**84**	**7.8**	**2.7**	**2.2**	**8.9**	--	<0.50	--	--	--	--	<50	--	--
	6/15/2005	8.62	4.63	NP	3.99	**62**	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<50	--	--
	9/27/2005	8.62	3.96	NP	4.66	<200	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	<0.50	<0.50	<0.50	<10	<250	--	--
	12/13/2005	8.62	3.75	NP	4.87	<200	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<250	--	--
	3/23/2006	8.62	3.13	NP	5.49	<200	**50**	**13**	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<250	--	--
	6/23/2006	8.62	3.90	NP	4.72	<200	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<250	--	--
	9/26/2006	8.62	3.66	NP	4.96	<50	<50	<0.50	<0.50	<0.50	<0.50	--	<0.50	--	--	--	--	<250	--	--
	12/22/2006	8.62	3.56	NP	5.06	**81**	<50	<0.50	<0.50	<0.50	**1.8**	--	<0.50	--	--	--	--	<250	--	--
	3/30/2007	8.62	3.93	NP	4.69	**82**	<50	<0.50	<0.50	<0.50	<0.50	--	<0.50	--	--	--	--	<250	--	--
	6/28/2007	8.62	4.03	NP	4.59	**57**	<50	<0.50	<0.50	<0.50	<0.50	--	<0.50	--	--	--	--	<250	--	--
	9/25/2007	8.62	3.91	NP	4.71	**82**	<50	<0.50	<0.50	<0.50	<0.50	--	<0.50	--	--	--	--	<250	--	--
	12/28/2007	8.62	3.64	NP	4.98	**62**	<50	**2.1**	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<250	--	--
	3/22/2008	8.62	4.00	NP	4.62	<50	**64**	**13**	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<250	--	--
	6/23/2008	8.62	3.90	NP	4.72	<50	**94**	**30**	**0.53**	**3.4**	**3.5**	--	<0.50	--	--	--	--	<250	--	--
	9/19/2008	8.62	3.85	NP	4.77	<50	**130**	**15**	**1.7**	**5.7**	**11**	--	<0.50	--	--	--	--	<250	--	--
	12/31/2008	8.62	3.69	NP	4.93	<50	**82**	**11**	<0.50	**0.81**	**1.7**	--	<0.50	--	--	--	--	<250	--	--
	3/27/2009	8.62	3.75	NP	4.87	**730**	**210**	**28**	**1.4**	**1.2**	**3.9**	--	<0.50	--	--	--	--	<250	--	--
	5/28/2009	8.62	3.66	NP	4.96	<50	<50	**0.91**	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<250	--	--
	9/17/2009	8.62	3.85	NP	4.77	**65**	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	<250	--	--
	12/17/2009	8.62	3.00	NP	5.62	**57.7**	<50.0	**1.2**	<0.50	<0.50	<1.5	--	<0.50	--	--	--	--	<250	--	--
	3/29/2010	8.62	3.81	NP	4.81	**82.2**	<50.0	**0.77**	<0.50	<0.50	**3.4**	--	<0.50	--	--	--	--	<250	--	--
	6/30/2010	10.97	3.90	NP	7.07	**53.4**	<50.0	<0.50	<0.50	<0.50	<1.5	--	<0.50	--	--	--	--	<250	--	--

TABLE 3
HISTORICAL GROUNDWATER GAUGING AND ANALYTICAL DATA
76 Station No. 5191/5043
449 HEGENBERGER RD
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)	TPHg (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (SW8021B) (ug/L)	MTBE (SW8260B) (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	Ethanol (ug/L)	1,2-Dibromoethane (EDB) (ug/L)	1,2-Dichloroethane (ug/L)
MW-10	7/6/2010	10.97	3.73	NP	7.24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/20/2010	10.97	3.85	NP	7.12	<50.0	<50.0	<0.50	<0.50	<0.50	<1.5	--	<0.50	--	--	--	--	<250	--	--
	12/8/2010	10.97	3.63	NP	7.34	<50.0	<50.0	**1.8**	<0.50	<0.50	<1.5	--	<0.50	--	--	--	--	<250	--	--
	3/14/2011	10.97	3.46	NP	7.51	**63.3**	<50.0	**1.1**	<0.50	<0.50	<1.5	--	<0.50	--	--	--	<5.0	<250	--	--
	6/2/2011	10.97	3.92	NP	7.05	<50.0	**58.7**	**4.8**	**4.2**	**0.96**	**5.1**	--	<0.50	--	--	--	<5.0	<250	--	--
	9/7/2011	10.97	4.06	NP	6.91	<50.0	<50.0	**4.1**	<0.50	0.66	2.4	--	<0.50	--	--	--	--	<250	--	--
	12/5/2011	10.97	3.82	NP	7.15	<50.0	<50.0	<0.50	<0.50	<0.50	<1.5	--	<0.50	--	--	--	--	<250	--	--
	3/6/2012	10.97	3.74	NP	7.23	<50.0	<50.0	<0.50	<0.50	<0.50	<1.5	--	<0.50	--	--	--	**58.7**	<250	--	--
	6/11/2012	10.97	3.99	NP	6.98	<37.9	<50.0	**0.79**	<0.50	<0.50	<1.5	--	**0.72**	--	--	--	**17.2**	--	--	--
MW-11	7/6/2010	10.53	2.44	NP	8.09	**226**	**99.2**	<0.50	<0.50	<0.50	<1.5	--	**165**	<0.50	<0.50	<0.50	**174**	<250	<1.0	<1.0
	9/20/2010	10.53	2.80	NP	7.73	<50.0	**76.4 1n**	<0.50	<0.50	<0.50	<1.5	--	**82.7**	--	--	--	--	<250	--	--
	12/8/2010	10.53	1.90	NP	8.63	**52.7**	<50.0	<0.50	<0.50	<0.50	<1.5	--	**59.1**	--	--	--	--	<250	--	--
	3/14/2011	10.53	1.89	NP	8.64	**67.8**	<50.0	<0.50	<0.50	<0.50	<1.5	--	**44.0**	--	--	--	<5.0	<250	--	--
	6/2/2011	10.53	1.75	NP	8.78	**69.0 T4**	<50.0	<0.50	**0.61**	<0.50	<1.5	--	**24.9**	--	--	--	**7.1**	<250	--	--
	9/7/2011	10.53	1.56	NP	8.97	<50.0	<50.0	<0.50	<0.50	<0.50	<1.5	--	**3.8**	--	--	--	--	<250	--	--
	12/5/2011	10.53	2.05	NP	8.48	<50.0	<50.0	<0.50	<0.50	<0.50	<1.5	--	**26.4**	--	--	--	--	<250	--	--
	3/6/2012	10.53	2.31	NP	8.22	<50.0	<50.0	<0.50	<0.50	<0.50	<1.5	--	**35.3**	--	--	--	**5.7**	<250	--	--
	6/11/2012	10.53	2.24	NP	8.29	<37.9	<50.0	<0.50	<0.50	<0.50	<1.5	--	**20.9**	--	--	--	**10.4**	<250	--	--
MW-12	7/6/2010	11.01	4.00	NP	7.01	**990**	**20,300**	**1,030**	**955**	**311**	**2,450**	--	**1,650**	<0.50	<0.50	**1.0**	**1430**	<250	<1.0	<1.0
	9/20/2010	11.01	4.18	NP	6.83	**5,220**	**73,700**	**6,020**	**6,390**	**2,970**	**18,300**	--	**894**	--	--	--	--	<250	--	--
	12/8/2010	11.01	3.92	NP	7.09	**428**	**3,350**	**249**	**117**	**90**	**558**	--	**1,470**	--	--	--	--	<2500	--	--
	3/14/2011	11.01	3.70	NP	7.31	**283**	**2,420**	**287**	**81**	**49**	**243**	--	**1,020**	--	--	--	**69.6**	<250	--	--
	6/2/2011	11.01	4.40	NP	6.61	**1,330 T4**	**12,200**	**688**	**71**	**225**	**619**	--	**824**	--	--	--	**110**	<250	--	--
	9/7/2011	11.01	4.37	NP	6.64	**1,270 T4**	**7,900**	**920**	**25**	**187**	**267**	--	**896**	--	--	--	--	<2500	--	--
	12/5/2011	11.01	4.32	NP	6.69	**286 T4**	**2,240**	**296**	**38**	**38.0**	**122**	--	**1,040**	--	--	--	--	<250	--	--
	3/6/2012	11.01	4.01	NP	7.00	**272 T4**	**1,260**	**193**	**23**	**29**	**81**	--	**835**	--	--	--	**78.4**	<250	--	--
	6/11/2012	11.01	4.20	NP	6.81	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/12/2012	--	--	--	--	**957 T4**	**1,030**	**178**	**17.0**	**24.1**	**68.8**	--	**993**	--	--	--	**448**	<250	--	--
MW-12A	7/6/2010	11.29	4.22	NP	7.07	**89.3**	**664**	**18.3M0**	**0.78**	**2.3**	**50.2M0**	--	**14.3M0**	<0.50	<0.50	<0.50	**11.9M0**	<250	<1.0	<1.0
	9/20/2010	11.29	4.39	NP	6.90	<50.0	<50.0	<0.50	<0.50	<0.50	<1.5	--	**8.5**	--	--	--	--	<250	--	--
	12/8/2010	11.29	4.00	NP	7.29	**76.4**	<50.0	<0.50	<0.50	<0.50	<1.5	--	**9.4**	--	--	--	--	<250	--	--
	3/14/2011	11.29	3.81	NP	7.48	**61.5**	<50.0	<0.50	<0.50	<0.50	<1.5	--	<0.50	--	--	--	<5.0	<250	--	--
	6/2/2011	11.29	4.20	NP	7.09	<50.0	<50.0	<0.50	<0.50	<0.50	<1.5	--	<0.50	--	--	--	<5.0	<250	--	--
	9/7/2011	11.29	4.42	NP	6.87	<50.0	<50.0	<0.50	<0.50	<0.50	<1.5	--	**0.74**	--	--	--	--	<250	--	--
	12/5/2011	11.29	4.30	NP	6.99	<50.0	<50.0	<0.50	<0.50	<0.50	<1.5	--	<0.50	--	--	--	--	<250	--	--
	3/6/2012	11.29	4.32	NP	6.97	**52.0 T4**	<50.0	<0.50	<0.50	<0.50	<1.5	--	<0.50	--	--	--	<5.0	<250	--	--
	6/11/2012	11.29	4.36	NP	6.93	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-13	7/6/2010	11.08	4.26	NP	6.82	**469**	**122**	<0.50	<0.50	<0.50	<1.5	--	**217**	<0.50	<0.50	<0.50	**199**	<250	<1.0	<1.0
	9/20/2010	11.08	4.81	NP	6.27	<50.0	**250 1n**	<0.50	<0.50	<0.50	<1.5	--	**272**	--	--	--	--	<250	--	--
	12/8/2010	11.08	5.02	NP	6.06	**97.0**	**177 1n**	<0.50	<0.50	<0.50	<1.5	--	**390**	--	--	--	--	<250	--	--
	3/14/2011	11.08	4.32	NP	6.76	**162**	**127**	<0.50	<0.50	<0.50	<1.5	--	**241**	--	--	--	**125**	<250	--	--
	6/2/2011	11.08	3.98	NP	7.10	**89.9 T4**	**260 1n**	<0.50	<0.50	<0.50	<1.5	--	**228**	--	--	--	**44.7**	<250	--	--
	9/7/2011	11.08	5.74	NP	5.34	<50.0	**167**	<0.50	<0.50	<0.50	<1.5	--	**207**	--	--	--	--	<250	--	--
	12/5/2011	11.08	5.00	NP	6.08	<50.0	**166 1n**	<0.50	<0.50	<0.50	<1.5	--	**215**	--	--	--	--	<250	--	--
	3/6/2012	11.08	5.37	NP	5.71	<50.0	**63.9 1n**	<0.50	<0.50	<0.50	<1.5	--	**110**	--	--	--	**38.5**	<250	--	--
	6/11/2012	11.08	5.73	NP	5.35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/12/2012	--	--	--	--	<37.9	**118 1n**	<0.50	<0.50	<0.50	<1.5	--	**220**	--	--	--	**81.7**	<250	--	--

TABLE 3
HISTORICAL GROUNDWATER GAUGING AND ANALYTICAL DATA
76 Station No. 5191/5043
449 HEGENBERGER RD
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)	TPHg (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (SW8021B) (ug/L)	MTBE (SW8260B) (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	Ethanol (ug/L)	1,2-Dibromoethane (EDB) (ug/L)	1,2-Dichloroethane (ug/L)
MW-14	6/2/2011	12.00	3.58	NP	8.42	**4,180 T4**	**51,600**	**2,750**	**68**	**1,790**	**13,400**	--	**1.9**	--	--	--	**27.2**	<250	--	--
	9/7/2011	12.00	3.02	NP	8.98	**2,970 T4**	**42,600**	**1,050**	**28**	**2,990**	**7,300**	--	<25.0	--	--	--	--	<12500	--	--
	12/5/2011	12.00	4.05	NP	7.95	**3,980 T4**	**14,000**	**709**	**9**	**1,420**	**2,530**	--	**0.97**	--	--	--	--	<250	--	--
	3/6/2012	12.00	3.94	NP	8.06	**3,640 T4**	**16,600**	**959**	**15.0**	**2,330**	**3,830**	--	<2.5	--	--	--	**28.1**	<1250	--	--
	6/11/2012	12.00	3.91	NP	8.09	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/12/2012	--	--	--	--	**4,580**	**15,700**	**1,200**	**14.0**	**1,580**	**3,010**	--	**1.4**	--	--	--	**23.3**	<250	--	--
MW-15	6/2/2011	11.11	2.50	NP	8.61	**124 T4**	**357**	<0.50	<0.50	<0.50	<1.5	--	**15.2**	--	--	--	**6.4**	<250	--	--
	9/7/2011	11.11	2.54	NP	8.57	<50.0	**412**	**6.2**	<0.50	**42.8**	<1.5	--	**128**	--	--	--	--	<250	--	--
	12/5/2011	11.11	2.70	NP	8.41	**50.5 T4**	**201**	**6.6**	<0.50	**0.93**	<1.5	--	**142**	--	--	--	--	<250	--	--
	3/6/2012	11.11	2.69	NP	8.42	**56.2 T4**	<50.0	<0.50	<0.50	<0.50	<1.5	--	**106**	--	--	--	**101**	<250	--	--
	6/11/2012	11.11	2.84	NP	8.27	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/12/2012	--	--	--	--	<37.9	**74.3 1n**	<0.50	<0.50	<0.50	<1.5	--	**114**	--	--	--	**90.9**	<250	--	--
MW-16	6/2/2011	10.98	3.00	NP	7.98	**509 T4**	**1,420 1n**	**79.4**	<0.50	**4.2**	<1.5	--	**1,200**	--	--	--	257	<250	--	--
	9/7/2011	10.98	2.65	NP	8.33	**90.0 T4**	**934**	<0.50	<0.50	<0.50	<1.5	--	**1,240**	--	--	--	--	<250	--	--
	12/5/2011	10.98	3.18	NP	7.80	**196 T4**	**948 1n**	<0.50	<0.50	<0.50	<1.5	--	**1,320**	--	--	--	--	<250	--	--
	3/6/2012	10.98	2.91	NP	8.07	**204 T4**	**392 1n**	<0.50	<0.50	<0.50	<1.5	--	**1,090**	--	--	--	134	<250	--	--
	6/11/2012	10.98	3.04	NP	7.94	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/12/2012	--	--	--	--	**48.1 T4**	**430 1n**	<0.50	<0.50	<0.50	<1.5	--	**1,100**	--	--	--	374	<250	--	--
MW-17	6/2/2011	11.52	5.78	NP	5.74	**687 T4**	**9,130**	**2,530**	**960**	**35**	**907**	--	**0.74**	--	--	--	**366**	<250	--	--
	9/7/2011	11.52	4.56	NP	6.96	**1,900 T4**	**47,200**	**9,620**	**5,510**	**1,210**	**4,510**	--	<25.0	--	--	--	--	<12500	--	--
	12/5/2011	11.52	4.70	NP	6.82	**1,790 T4**	**17,300**	**4,720**	**511**	**238**	**747**	--	<2.5	--	--	--	--	<1250	--	--
	3/6/2012	11.52	4.64	NP	6.88	**1,530 T4**	**1,580**	**2,090**	**24**	**39**	**166**	--	**1.1**	--	--	--	**481**	<250	--	--
	6/11/2012	11.52	4.67	NP	6.85	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/12/2012	--	--	--	--	**1,090 T4**	**4,950**	**2,340**	**123**	**153**	**610**	--	<2.5	--	--	--	**411**	<1250	--	--

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
WD - Well Destroyed
WI - Well Inaccessable
WO - Well Obstruction
NSVD - Not surveyed
-- - No information available

Analytical Notes:
-- - No information available
< - Below the laboratory's indicated reporting limit
LPH - Liquid Phase Hydrocarbons
ND - Not detected, and detection limit is not known
NS - Well not sampled.
ug/L - micrograms/liter
WD - Well Destroyed
WI - Well Inaccessable
WO - Well Obstruction
DRO- diesel range organics
TPHg- Total Petroleum hydrocarbons as gasoline
MTBE- Methyl tertiary-butyl ether
DIPE- Di-isopropyl ether
ETBE- Ethyl tertiary-butyl ether
TAME- Tertiary-amyl methyl ether
TBA- Tertiary-butyl alcohol
Bold - Above the laboratory's indicated reporting limit
1n - The TPHg result for this sample did not match the laboratory standard for gasoline. This is likely due to the presence of MTBE in the sample.
T4- Result reported for the hydrocarbons within the method-specific range that do not match pattern of laboratory standard.

TABLE 3a
ADDITIONAL HISTORICAL GROUNDWATER GAUGING AND ANALYTICAL DATA
76 Station No. 5191/5043
449 HEGENBERGER RD
OAKLAND, CALIFORNIA

Well I.D.	Date	GROUNDWATER ANALYTICAL DATA																			
		Acetone (ug/L)	Alkalinity, Bicarbonate (mg/L)	Alkalinity, Hydroxide (CaCO) (mg/L)	Alkalinity, Total A2320B (mg/L)	Alkalinity, Total as CaCO3 (mg/L)	Antimony SW6010 D (ug/L)	Arsenic SW6010 D (ug/L)	Barium SW6010 D (ug/L)	Beryllium SW6010 D (ug/L)	Biochemical Oxygen Demand (ug/L)	Bromate (mg/L)	Bromide (mg/L)	Cadmium SW6010 D (ug/L)	Chemical Oxygen Demand (ug/L)	Chloride (ug/L)	Chromium (ug/L)	Chromium, Hexavalent (ug/L)	Cobalt SW6010 D (ug/L)	Coliform, Total (MPN/100ML)	E. Coli (MPN/100ML)
MW-6	3/14/2011	**18.4**	--	--	--	--	<60.0	**22.7**	**216**	<5.0	**32,200**	--	--	<5.0	**173,000**	**204,000**	--	--	<50.0	--	--
	6/2/2011	<5.0	**828**	<1	**828**	<1	<60.0	**22.0**	**191**	<5.0	**45,100**	<0.005	**2.1**	<5.0	**121,000**	**149,000**	**4.3**	<2	<50.0	**42000**	<100
	9/7/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/5/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/6/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/11/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/12/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	3/14/2011	<5.0	--	--	--	--	<60.0	<20.0	<100	<5.0	**7,160**	--	--	<5.0	**11,500**	**34,700**	--	--	<50.0	--	--
	6/2/2011	<5.0	**226**	<1	**226**	<1	<60.0	<20.0	<100	<5.0	**4,170**	<0.005	**2**	<5.0	**15,100**	**32,400**	**2.4**	<0.2	<50.0	**2**	<1
	9/7/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/5/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/6/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/11/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-12	3/14/2011	<5.0	--	--	--	--	<60.0	<20.0	<100	<5.0	<2000	--	--	<5.0	**80,100**	**8,240,000**	--	--	<50.0	--	--
	6/2/2011	<5.0	**905**	<1	**905**	<1	<60.0	<20.0	<100	<5.0	**7,240**	<0.05	**33**	<5.0	**191,000**	**7,260,000**	**3.3**	<2	<50.0	**210**	<1
	9/7/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/5/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/6/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/11/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/12/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Analytical Notes:
-- - No information available
< - Below the laboratory's indicated reporting limit
LPH - Liquid Phase Hydrocarbons
mg/L - milligrams per liter
MPN/100ML - most probable number per 100 ml
NS - Well not sampled.
ug/L - micrograms/liter
Bold - Above the laboratory's indicated reporting limit

TABLE 3b
ADDITIONAL HISTORICAL GROUNDWATER ANALYTICAL DATA
76 Station No. 5191/5043
449 HEGENBERGER RD
OAKLAND, CALIFORNIA

Well I.D.	Date	GROUNDWATER ANALYTICAL DATA																			
		Inorganic Carbon (mg/L)	Iron SW6010 D (ug/L)	Iron SW6010 T (ug/L)	Iron, Ferric (ug/L)	Iron, Ferrous A3500D (ug/L)	Lead SW6010 D (ug/L)	Manganese SW6010 D (ug/L)	Mercury (ug/L)	Methane (ug/L)	Molybdenum SW6010 D (ug/L)	Nickel SW6010 D (ug/L)	Nitrate as N (ug/L)	Nitrite as N E353/E351 (ug/L)	Nitrite as N SM4500 (ug/L)	Nitrogen, Ammonia (mg/L)	Nitrogen, NO2 plus NO3 (ug/L)	Nitrogen, Total Kjeldahl (mg/L)	Oil and Grease (ug/L)	Salinity (mg/L)	Selenium SW6010 D (ug/L)
MW-3	12/17/2009	--	--	**12,300**	--	--	--	--	--	--	--	--	<50.0	<50.0	--	--	<50.0	--	--	--	--
	3/29/2010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/30/2010	--	**5,550**	**10,700**	--	--	--	--	--	--	--	--	<50.0	--	**95.0**	--	**75.7**	--	--	--	--
	7/6/2010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/20/2010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/8/2010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/14/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/2/2011	--	--	**13,600**	--	--	--	--	--	--	--	--	<50.0	--	<10.0	--	**52.5**	--	--	--	--
	9/7/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/5/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/6/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/11/2012	--	--	**10,900**	--	--	--	--	--	--	--	--	<50.0	--	<10.0	--	<50.0	--	--	--	--
MW-5	11/30/1992	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	ND	--	--
	2/4/1993	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	ND	--	--
	5/4/1993	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	ND	--	--
	8/4/1993	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	ND	--	--
	11/3/1993	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	2/7/1994	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	5/19/1994	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/25/1994	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	7/27/1994	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	8/15/1994	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/14/1994	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	2/21/1995	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD
MW-6	9/17/2009	--	--	**1,500**	--	--	--	--	--	--	--	--	<0.44	--	--	--	--	--	--	--	--
	12/17/2009	--	--	**2,460**	--	--	--	--	--	--	--	--	<50.0	<50.0	--	--	<50.0	--	--	--	--
	3/29/2010	--	**1,790**	**1,510**	--	--	--	--	--	--	--	--	<50.0	--	**41.3**	--	**54.9**	--	--	--	--
	6/30/2010	--	**946**	**2,310**	--	--	--	--	--	--	--	--	<50.0	--	**57.9**	--	**69.3**	--	--	--	--
	7/6/2010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/20/2010	--	**2,730**	**2,600**	--	--	--	--	--	--	--	--	<50.0	--	<10.0	--	**52.1**	--	--	--	--
	12/8/2010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/14/2011	--	--	**4,900**	**3,900**	**1,000**	**26.8**	**1,270**	<0.20	**474**	<20.0	<40.0	**50.1**	--	<10.0	--	**54.2**	--	--	--	<10.0
	6/2/2011	**870**	--	**4,320**	**2,520**	**1,800**	**22.6**	**1,510**	<0.20	**445**	<20.0	<40.0	<50.0	--	<10.0	**2.9**	**50.5**	**4.8**	--	**1,500**	<10.0
	9/7/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/5/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/6/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/11/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/12/2012	--	--	**1,240**	--	--	--	--	--	--	--	--	<50.0	--	<10	--	<50.0	--	--	--	--
MW-7	6/30/2010	--	**836**	**7,550**	--	--	--	--	--	--	--	--	<50.0	--	**73.9**	--	**73.6**	--	--	--	--
	7/6/2010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/20/2010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/8/2010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/14/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/2/2011	--	--	**7,800**	--	--	--	--	--	--	--	--	**233**	--	<10.0	--	**239**	--	--	--	--
	9/7/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/5/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/6/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/11/2012	--	--	**264**	--	--	--	--	--	--	--	--	<50.0	--	**67**	--	**111**	--	--	--	--
MW-8	6/30/2010	--	**4,710**	**8,000**	--	--	--	--	--	--	--	--	<50.0	--	**68.2**	--	**59.7**	--	--	--	--
	7/6/2010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/20/2010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/8/2010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/14/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/2/2011	--	--	**24,900**	--	--	--	--	--	--	--	--	**60.9**	--	<10.0	--	**60.9**	--	--	--	--
	9/7/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/5/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

TABLE 3b
ADDITIONAL HISTORICAL GROUNDWATER ANALYTICAL DATA
76 Station No. 5191/5043
449 HEGENBERGER RD
OAKLAND, CALIFORNIA

Well I.D.	Date	GROUNDWATER ANALYTICAL DATA																			
		Inorganic Carbon (mg/L)	Iron SW6010 D (ug/L)	Iron SW6010 T (ug/L)	Iron, Ferric (ug/L)	Iron, Ferrous A3500D (ug/L)	Lead SW6010 D (ug/L)	Manganese SW6010 D (ug/L)	Mercury (ug/L)	Methane (ug/L)	Molybdenum SW6010 D (ug/L)	Nickel SW6010 D (ug/L)	Nitrate as N (ug/L)	Nitrite as N E353/E351 (ug/L)	Nitrite as N SM4500 (ug/L)	Nitrogen, Ammonia (mg/L)	Nitrogen, NO2 plus NO3 (ug/L)	Nitrogen, Total Kjeldahl (mg/L)	Oil and Grease (ug/L)	Salinity (mg/L)	Selenium SW6010 D (ug/L)
MW-8	3/6/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/11/2012	--	--	**21,000**	--	--	--	--	--	--	--	--	<50.0	--	**48**	--	<50.0	--	--	--	--
MW-9	12/17/2009	--	--	**2270**	--	--	--	--	--	--	--	--	<50.0	<50.0	--	--	<50.0	--	--	--	--
	3/29/2010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/30/2010	--	**3,210**	**8,820**	--	--	--	--	--	--	--	--	<50.0	--	**14.9**	--	<50.0	--	--	--	--
	7/6/2010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/20/2010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/8/2010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/14/2011	--	--	**1,560**	**157**	**1,400**	<10.0	**148**	<0.20	**419**	<20.0	<40.0	<50.0	--	<10.0	--	<50.0	--	--	--	<10.0
	6/2/2011	**240**	--	**1,260**	**1,060**	**200**	<10.0	**91.5**	<0.20	**673**	<20.0	<40.0	<50.0	--	<10.0	**0.86**	<50.0	**0.6**	--	**405**	<10.0
	9/7/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/5/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/6/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/11/2012	--	--	**731**	--	--	--	--	--	--	--	--	<50.0	--	<10.0	--	<50.0	--	--	--	--
MW-10	9/17/2009	--	--	**9,800**	--	--	--	--	--	--	--	--	**12**	--	--	--	--	--	--	--	--
	12/17/2009	--	--	**3,410**	--	--	--	--	--	--	--	--	**1,970**	**60.3**	--	--	**2,030**	--	--	--	--
	3/29/2010	--	**365**	**2,410**	--	--	--	--	--	--	--	--	**1,960**	--	**18.7**	--	**1,970**	--	--	--	--
	6/30/2010	--	**216**	**1,860**	--	--	--	--	--	--	--	--	**2,120**	--	**68.1**	--	**2,190**	--	--	--	--
	7/6/2010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/20/2010	--	**280**	**3,080**	--	--	--	--	--	--	--	--	**2,690**	--	**68.2**	--	**2,750**	--	--	--	--
	12/8/2010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/14/2011	--	--	**2,620**	--	--	--	--	--	--	--	--	--	--	--	--	**2,350**	--	--	--	--
	6/2/2011	--	--	**9,870**	--	--	--	--	--	--	--	--	**1,290**	--	**49.3**	--	**1,340**	--	--	--	--
	9/7/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/5/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/6/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/11/2012	--	--	**11,300**	--	--	--	--	--	--	--	--	**1,510**	--	**57**	--	**1,570**	--	--	--	--
MW-11	7/6/2010	--	<100	**3,510**	--	--	--	--	--	--	--	--	<50.0	--	**31.0**	--	**66.9**	--	--	--	--
	9/20/2010	--	<100	**1,690**	--	--	--	--	--	--	--	--	**167**	--	<10.0	--	**172**	--	--	--	--
	12/8/2010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/14/2011	--	--	**756**	--	--	--	--	--	--	--	--	--	--	--	--	<50.0	--	--	--	--
	6/2/2011	--	--	**1,040**	--	--	--	--	--	--	--	--	**110**	--	<10.0	--	**115**	--	--	--	--
	9/7/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/5/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/6/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/11/2012	--	--	**1,300**	--	--	--	--	--	--	--	--	**88.8**	--	<10.0	--	**93.5**	--	--	--	--
MW-12	7/6/2010	--	<100	**30,200**	--	--	--	--	--	--	--	--	<50.0	--	**60.5**	--	<50.0	--	--	--	--
	9/20/2010	--	**552**	**3,890**	--	--	--	--	--	--	--	--	**72.3**	--	<10.0	--	**75.2**	--	--	--	--
	12/8/2010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/14/2011	--	--	**793**	**593**	**200**	<10.0	**12,400**	<0.20	**114**	<20.0	**151**	<50.0	--	**60.6**	--	**54.4**	--	--	--	<10.0
	6/2/2011	**1,100**	--	**9,340**	**8,740**	**600**	<10.0	**12,800**	<0.20	**287**	<20.0	**119**	<50.0	--	<10.0	**0.14**	**58.0**	**0.91**	--	**15,600**	<10.0
	9/7/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/5/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/6/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/11/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/12/2012	--	--	**497**	--	--	--	--	--	--	--	--	<50.0	--	<10	--	<50.0	--	--	--	--
MW-12A	7/6/2010	--	**716**	**57,300**	--	--	--	--	--	--	--	--	**3,680**	--	**164**	--	**3,840**	--	--	--	--
	9/20/2010	--	<100	**523**	--	--	--	--	--	--	--	--	**4,680**	--	**10.2**	--	**4,690**	--	--	--	--
	12/8/2010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/14/2011	--	--	**523**	--	--	--	--	--	--	--	--	--	--	--	--	**4,790**	--	--	--	--
	6/2/2011	--	--	**754**	--	--	--	--	--	--	--	--	**4,710**	--	<10.0	--	**4,720**	--	--	--	--
	9/7/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/5/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/6/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/11/2012	--	--	**859**	--	--	--	--	--	--	--	--	**4,250**	--	<10.0	--	**4,260**	--	--	--	--

TABLE 3b
ADDITIONAL HISTORICAL GROUNDWATER ANALYTICAL DATA
76 Station No. 5191/5043
449 HEGENBERGER RD
OAKLAND, CALIFORNIA

Well I.D.	Date	GROUNDWATER ANALYTICAL DATA																			
		Inorganic Carbon (mg/L)	Iron SW6010 D (ug/L)	Iron SW6010 T (ug/L)	Iron, Ferric (ug/L)	Iron, Ferrous A3500D (ug/L)	Lead SW6010 D (ug/L)	Manganese SW6010 D (ug/L)	Mercury (ug/L)	Methane (ug/L)	Molybdenum SW6010 D (ug/L)	Nickel SW6010 D (ug/L)	Nitrate as N (ug/L)	Nitrite as N E353/E351 (ug/L)	Nitrite as N SM4500 (ug/L)	Nitrogen, Ammonia (mg/L)	Nitrogen, NO2 plus NO3 (ug/L)	Nitrogen, Total Kjeldahl (mg/L)	Oil and Grease (ug/L)	Salinity (mg/L)	Selenium SW6010 D (ug/L)
MW-13	7/6/2010	--	**116**	**92,600**	--	--	--	--	--	--	--	--	<50.0	--	**64.9**	--	**70.4**	--	--	--	--
	9/20/2010	--	**279**	**59,500**	--	--	--	--	--	--	--	--	<50.0	--	<10.0	--	<50.0	--	--	--	--
	12/8/2010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/14/2011	--	--	**44,600**	--	--	--	--	--	--	--	--	--	--	--	--	<50.0	--	--	--	--
	6/2/2011	--	--	**36,700**	--	--	--	--	--	--	--	--	**71.5**	--	**14.5**	--	**86.0**	--	--	--	--
	9/7/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/5/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/6/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/11/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/12/2012	--	--	**3,760**	--	--	--	--	--	--	--	--	<50.0	--	**19**	--	<50.0	--	--	--	--
MW-14	6/2/2011	--	--	**47,500**	--	--	--	--	--	--	--	--	<50.0	--	**10.4**	--	**50.1**	--	--	--	--
	9/7/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/5/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/6/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/11/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/12/2012	--	--	**1,150**	--	--	--	--	--	--	--	--	<50.0	--	<10	--	<50.0	--	--	--	--
MW-15	6/2/2011	--	--	**11,700**	--	--	--	--	--	--	--	--	**890**	--	**38.0**	--	**928**	--	--	--	--
	9/7/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/5/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/6/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/11/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/12/2012	--	--	**2,920**	--	--	--	--	--	--	--	--	<50.0	--	<10	--	<50.0	--	--	--	--
MW-16	6/2/2011	--	--	**34,200**	--	--	--	--	--	--	--	--	<50.0	--	<10.0	--	<50.0	--	--	--	--
	9/7/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/5/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/6/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/11/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/12/2012	--	--	**1,730**	--	--	--	--	--	--	--	--	<50.0	--	<10	--	<50.0	--	--	--	--
MW-17	6/2/2011	--	--	**109,000**	--	--	--	--	--	--	--	--	<50.0	--	**29.7**	--	<50.0	--	--	--	--
	9/7/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/5/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/6/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/11/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/12/2012	--	--	**44,300**	--	--	--	--	--	--	--	--	<50.0	--	**39**	--	<50.0	--	--	--	--

Analytical Notes:
-- - No information available
< - Below the laboratory's indicated reporting limit
LPH - Liquid Phase Hydrocarbons
mg/L - milligrams per liter
ND - Not detected, and detection limit is not known
NS - Well not sampled.
ug/L - micrograms/liter
Bold - Above the laboratory's indicated reporting limit

TABLE 3c
ADDITIONAL HISTORICAL GROUNDWATER ANALYTICAL DATA
76 Station No. 5191/5043
449 HEGENBERGER RD
OAKLAND, CALIFORNIA

Well I.D.	Date	GROUNDWATER ANALYTICAL DATA						
		Silver SW6010 D (ug/L)	Sulfate E300 (ug/L)	Sulfate E300.1 (mg/L)	Thallium SW6010 D (ug/L)	Total Organic Carbon (mg/L)	Vanadium SW6010 D (ug/L)	Zinc SW6010 D (ug/L)
MW-3	12/17/2009	--	--	<0.5	--	--	--	--
	3/29/2010	--	--	--	--	--	--	--
	6/30/2010	--	<5000	--	--	--	--	--
	7/6/2010	--	--	--	--	--	--	--
	9/20/2010	--	--	--	--	--	--	--
	12/8/2010	--	--	--	--	--	--	--
	3/14/2011	--	--	--	--	--	--	--
	6/2/2011	--	<5000	--	--	--	--	--
	9/7/2011	--	--	--	--	--	--	--
	12/5/2011	--	--	--	--	--	--	--
	3/6/2012	--	--	--	--	--	--	--
	6/11/2012	--	<2000	--	--	--	--	--
MW-6	9/17/2009	--	<1.0	<0.0010	--	--	--	--
	12/17/2009	--	--	<0.5	--	--	--	--
	3/29/2010	--	<1000	--	--	--	--	--
	6/30/2010	--	<5000	--	--	--	--	--
	7/6/2010	--	--	--	--	--	--	--
	9/20/2010	--	<1000	--	--	--	--	--
	12/8/2010	--	--	--	--	--	--	--
	3/14/2011	<10.0	**35,400**	--	<20.0	--	<50.0	<40.0
	6/2/2011	<10.0	**38,900**	--	<20.0	**41**	<50.0	<40.0
	9/7/2011	--	--	--	--	--	--	--
	12/5/2011	--	--	--	--	--	--	--
	3/6/2012	--	--	--	--	--	--	--
	6/11/2012	--	--	--	--	--	--	--
	6/12/2012	--	**1,110**	--	--	--	--	--
MW-7	6/30/2010	--	**191,000**	--	--	--	--	--
	7/6/2010	--	--	--	--	--	--	--
	9/20/2010	--	--	--	--	--	--	--
	12/8/2010	--	--	--	--	--	--	--
	3/14/2011	--	--	--	--	--	--	--
	6/2/2011	--	**48,900**	--	--	--	--	--
	9/7/2011	--	--	--	--	--	--	--
	12/5/2011	--	--	--	--	--	--	--
	3/6/2012	--	--	--	--	--	--	--
	6/11/2012	--	**56,900**	--	--	--	--	--
MW-8	6/30/2010	--	**2,360,000**	--	--	--	--	--
	7/6/2010	--	--	--	--	--	--	--
	9/20/2010	--	--	--	--	--	--	--
	12/8/2010	--	--	--	--	--	--	--
	3/14/2011	--	--	--	--	--	--	--
	6/2/2011	--	**2,830,000**	--	--	--	--	--
	9/7/2011	--	--	--	--	--	--	--
	12/5/2011	--	--	--	--	--	--	--
	3/6/2012	--	--	--	--	--	--	--
	6/11/2012	--	**2,570,000**	--	--	--	--	--

TABLE 3c
ADDITIONAL HISTORICAL GROUNDWATER ANALYTICAL DATA
76 Station No. 5191/5043
449 HEGENBERGER RD
OAKLAND, CALIFORNIA

Well I.D.	Date	GROUNDWATER ANALYTICAL DATA						
		Silver SW6010 D (ug/L)	Sulfate E300 (ug/L)	Sulfate E300.1 (mg/L)	Thallium SW6010 D (ug/L)	Total Organic Carbon (mg/L)	Vanadium SW6010 D (ug/L)	Zinc SW6010 D (ug/L)
MW-9	12/17/2009	--	--	**11**	--	--	--	--
	3/29/2010	--	--	--	--	--	--	--
	6/30/2010	--	**19,000**	--	--	--	--	--
	7/6/2010	--	--	--	--	--	--	--
	9/20/2010	--	--	--	--	--	--	--
	12/8/2010	--	--	--	--	--	--	--
	3/14/2011	<10.0	**8,980**	--	<20.0	--	<50.0	<40.0
	6/2/2011	<10.0	**18,600**	--	<20.0	**4.7**	<50.0	<40.0
	9/7/2011	--	--	--	--	--	--	--
	12/5/2011	--	--	--	--	--	--	--
	3/6/2012	--	--	--	--	--	--	--
	6/11/2012	--	**42,500**	--	--	--	--	--
MW-10	9/17/2009	--	**84**	**0.084**	--	--	--	--
	12/17/2009	--	--	**86**	--	--	--	--
	3/29/2010	--	**73,600**	--	--	--	--	--
	6/30/2010	--	**70,800**	--	--	--	--	--
	7/6/2010	--	--	--	--	--	--	--
	9/20/2010	--	**82,000**	--	--	--	--	--
	12/8/2010	--	--	--	--	--	--	--
	3/14/2011	--	**68,600**	--	--	--	--	--
	6/2/2011	--	**71,700**	--	--	--	--	--
	9/7/2011	--	--	--	--	--	--	--
	12/5/2011	--	--	--	--	--	--	--
	3/6/2012	--	--	--	--	--	--	--
	6/11/2012	--	**70,100**	--	--	--	--	--
MW-11	7/6/2010	--	**82,100**	--	--	--	--	--
	9/20/2010	--	**58,300**	--	--	--	--	--
	12/8/2010	--	--	--	--	--	--	--
	3/14/2011	--	**59,900**	--	--	--	--	--
	6/2/2011	--	**62,900**	--	--	--	--	--
	9/7/2011	--	--	--	--	--	--	--
	12/5/2011	--	--	--	--	--	--	--
	3/6/2012	--	--	--	--	--	--	--
	6/11/2012	--	**79,400**	--	--	--	--	--
MW-12	7/6/2010	--	**3,030,000**	--	--	--	--	--
	9/20/2010	--	**1,970,000**	--	--	--	--	--
	12/8/2010	--	--	--	--	--	--	--
	3/14/2011	<10.0	**2,500,000**	--	<20.0	--	<50.0	<40.0
	6/2/2011	<10.0	**2,330,000**	--	<20.0	**9.1**	<50.0	<40.0
	9/7/2011	--	--	--	--	--	--	--
	12/5/2011	--	--	--	--	--	--	--
	3/6/2012	--	--	--	--	--	--	--
	6/11/2012	--	--	--	--	--	--	--
	6/12/2012	--	**2,130,000**	--	--	--	--	--

TABLE 3c
ADDITIONAL HISTORICAL GROUNDWATER ANALYTICAL DATA
76 Station No. 5191/5043
449 HEGENBERGER RD
OAKLAND, CALIFORNIA

Well I.D.	Date	GROUNDWATER ANALYTICAL DATA						
		Silver SW6010 D (ug/L)	Sulfate E300 (ug/L)	Sulfate E300.1 (mg/L)	Thallium SW6010 D (ug/L)	Total Organic Carbon (mg/L)	Vanadium SW6010 D (ug/L)	Zinc SW6010 D (ug/L)
MW-12A	7/6/2010	--	**100,000**	--	--	--	--	--
	9/20/2010	--	**82,500**	--	--	--	--	--
	12/8/2010	--	--	--	--	--	--	--
	3/14/2011	--	**81,000**	--	--	--	--	--
	6/2/2011	--	**101,000**	--	--	--	--	--
	9/7/2011	--	--	--	--	--	--	--
	12/5/2011	--	--	--	--	--	--	--
	3/6/2012	--	--	--	--	--	--	--
	6/11/2012	--	**118,000**	--	--	--	--	--
MW-13	7/6/2010	--	**450,000**	--	--	--	--	--
	9/20/2010	--	**241,000**	--	--	--	--	--
	12/8/2010	--	--	--	--	--	--	--
	3/14/2011	--	**375,000**	--	--	--	--	--
	6/2/2011	--	**188,000**	--	--	--	--	--
	9/7/2011	--	--	--	--	--	--	--
	12/5/2011	--	--	--	--	--	--	--
	3/6/2012	--	--	--	--	--	--	--
	6/11/2012	--	--	--	--	--	--	--
	6/12/2012	--	**131,000**	--	--	--	--	--
MW-14	6/2/2011	--	**56,300**	--	--	--	--	--
	9/7/2011	--	--	--	--	--	--	--
	12/5/2011	--	--	--	--	--	--	--
	3/6/2012	--	--	--	--	--	--	--
	6/11/2012	--	--	--	--	--	--	--
	6/12/2012	--	**439,000**	--	--	--	--	--
MW-15	6/2/2011	--	**62,700**	--	--	--	--	--
	9/7/2011	--	--	--	--	--	--	--
	12/5/2011	--	--	--	--	--	--	--
	3/6/2012	--	--	--	--	--	--	--
	6/11/2012	--	--	--	--	--	--	--
	6/12/2012	--	**42,100**	--	--	--	--	--
MW-16	6/2/2011	--	**8,740**	--	--	--	--	--
	9/7/2011	--	--	--	--	--	--	--
	12/5/2011	--	--	--	--	--	--	--
	3/6/2012	--	--	--	--	--	--	--
	6/11/2012	--	--	--	--	--	--	--
	6/12/2012	--	**19,900**	--	--	--	--	--

TABLE 3c
ADDITIONAL HISTORICAL GROUNDWATER ANALYTICAL DATA
76 Station No. 5191/5043
449 HEGENBERGER RD
OAKLAND, CALIFORNIA

Well I.D.	Date	GROUNDWATER ANALYTICAL DATA						
		Silver SW6010 D (ug/L)	Sulfate E300 (ug/L)	Sulfate E300.1 (mg/L)	Thallium SW6010 D (ug/L)	Total Organic Carbon (mg/L)	Vanadium SW6010 D (ug/L)	Zinc SW6010 D (ug/L)
MW-17	6/2/2011	--	**3,920,000**	--	--	--	--	--
	9/7/2011	--	--	--	--	--	--	--
	12/5/2011	--	--	--	--	--	--	--
	3/6/2012	--	--	--	--	--	--	--
	6/11/2012	--	--	--	--	--	--	--
	6/12/2012	--	**2,520,000**	--	--	--	--	--

Analytical Notes:
-- - No information available
< - Below the laboratory's indicated reporting limit
mg/L - milligrams per liter
NS - Well not sampled.
ug/L - micrograms/liter
Bold - Above the laboratory's indicated reporting limit

TABLE 4

Historical Groundwater Gradient and Flow Direction Data

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

Site	Monitoring Date	Groundwater Gradient (feet per foot)	Groundwater Flow Direction															
			N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW
	04/22/92		0	0	0	0	0	0	0	0	0	0	0	0	**1**	0	0	0
	08/31/92	0.05	0	0	0	0	0	0	0	0	0	0	0	0	**1**	0	0	0
	11/30/92	0.04	0	0	0	0	0	0	0	0	0	0	0	0	**1**	0	0	0
	02/07/94		0	0	0	0	0	0	0	0	0	0	0	**1**	0	0	0	0
	11/14/94	0.03	0	0	0	0	0	0	0	0	0	0	0	**1**	0	0	0	0
	02/21/95	0.08	0	0	0	0	0	0	**1**	0	0	0	0	0	0	0	0	0
	05/18/95	0.07	0	0	0	0	0	0	0	0	0	0	**1**	0	0	0	0	0
	07/26/96	0.02	0	0	0	0	0	0	**1**	0	0	0	0	0	0	0	0	0
	10/28/96	0.02	0	0	0	0	0	0	**1**	0	0	0	0	0	0	0	0	0
	01/29/97	0.01	0	0	0	0	0	0	**1**	0	0	0	0	0	0	0	0	0
	04/15/97	0.01	0	0	0	0	0	0	**1**	0	0	0	0	0	0	0	0	0
	07/15/97	0.10	0	0	0	0	0	0	**1**	0	0	0	0	0	0	0	0	0
	10/09/97	0.10	0	0	0	0	0	0	**1**	0	0	0	0	0	0	0	0	0
	01/14/98	0.02	0	0	0	0	0	0	0	0	0	0	**1**	0	0	0	0	0
	04/01/98	0.05	0	0	0	0	0	0	0	0	**1**	0	0	0	0	0	0	0
	07/15/98	0.04	0	0	0	0	0	0	0	0	0	0	**1**	0	0	0	0	0
	09/30/98	0.05	0	0	0	0	0	0	0	0	0	0	**1**	0	0	0	0	0
	01/25/99	0.05	0	0	0	0	0	0	0	0	0	0	**1**	0	0	0	0	0
	04/15/99	0.04	0	0	0	0	0	0	0	0	0	0	**1**	0	0	0	0	0
	10/21/99	0.03	0	0	0	0	0	0	0	0	0	0	**1**	0	0	0	0	0
	07/14/99	0.04	0	0	0	0	0	0	0	0	0	0	**1**	0	0	0	0	0
	04/13/00	0.050	0	0	0	0	0	0	0	0	0	0	**1**	0	0	0	0	0
	07/14/00	0.033	0	0	0	0	0	0	**1**	0	0	0	0	0	0	0	0	0
	10/26/00	0.060	0	0	0	0	0	0	0	0	0	0	**1**	0	0	0	0	0
	01/03/01	0.070	0	0	0	0	0	0	0	0	0	0	**1**	0	0	0	0	0
	07/17/01	0.040	0	0	0	0	0	0	0	0	0	0	**1**	0	0	0	0	0
	10/01/01	0.030	0	0	0	0	0	0	0	0	0	0	**1**	0	0	0	0	0
	01/31/02	0.010	0	0	0	0	0	0	0	0	0	0	**1**	0	0	0	0	0
	07/28/02	0.020	0	0	0	0	0	0	**1**	0	0	0	0	0	0	0	0	0
	10/09/02	0.016	0	0	0	0	0	0	**1**	0	0	0	0	0	0	0	0	0
	01/02/03	0.010	0	0	0	0	0	0	0	0	0	0	**1**	0	0	0	0	0
	04/01/03	0.008	0	0	0	0	0	0	**1**	0	0	0	0	0	0	0	0	0
	07/29/09	0.010	0	0	0	0	0	0	**1**	0	0	0	0	0	0	0	0	0
	10/02/03	0.010	0	0	0	0	0	0	0	0	0	0	**1**	0	0	0	0	0
	01/09/04	0.010	0	0	0	0	0	0	0	0	0	0	**1**	0	0	0	0	0
	04/26/04	0.010	0	0	0	0	0	0	0	0	**1**	0	0	0	0	0	0	0
	07/22/04	0.010	0	0	0	0	0	0	0	0	**1**	0	0	0	0	0	0	0
	10/29/04	0.010	0	0	0	0	0	0	0	0	**1**	0	0	0	0	0	0	0
	01/10/05	0.010	0	0	0	0	0	0	0	0	**1**	0	0	0	0	0	0	0
	06/15/05	0.020	0	0	0	0	0	0	**1**	0	0	0	0	0	0	0	0	0
	09/27/05	0.010	0	0	0	0	0	0	**1**	0	0	0	0	0	0	0	0	0
	12/13/05	0.005	0	0	0	0	0	0	**1**	0	0	0	0	0	0	0	0	0
	03/23/06	0.010	0	0	0	0	0	0	0	0	**1**	0	0	0	0	0	0	0
	06/23/06	0.010	0	0	0	0	0	0	0	0	**1**	0	0	0	0	0	0	0
	09/26/06	0.010	0	0	0	0	0	0	**1**	0	0	0	0	0	0	0	0	0
	12/22/06	0.010	0	0	0	0	0	0	0	0	**1**	0	0	0	0	0	0	0
	03/30/07	0.010	0	0	0	0	0	0	**1**	0	0	0	0	0	0	0	0	0
	09/25/07	0.010	0	0	0	0	0	0	0	0	**1**	0	0	0	0	0	0	0
	12/28/07	0.010	0	0	0	0	0	0	0	0	**1**	0	0	0	0	0	0	0
	06/28/07	0.010	0	0	0	0	0	0	0	0	**1**	0	0	0	0	0	0	0
	03/22/08	0.020	0	0	0	0	0	0	0	0	**1**	0	0	0	0	0	0	0
	06/23/08	0.010	0	0	0	0	0	0	0	0	**1**	0	0	0	0	0	0	0
	09/19/08	0.006	0	0	0	0	0	0	0	0	0	0	**1**	0	0	0	0	0
	12/31/08	0.005	0	0	0	0	0	0	**1**	0	0	0	0	0	0	0	0	0
	03/27/09	0.006	0	0	0	0	0	0	**1**	0	0	0	0	0	0	0	0	0
	05/28/09	0.008	0	0	0	0	0	0	**1**	0	0	0	0	0	0	0	0	0
	09/17/09	0.010	0	0	0	0	0	0	**1**	0	0	0	**1**	0	0	0	0	0
	12/17/09	0.008	0	0	0	0	0	0	0	0	0	0	**1**	0	0	0	0	0
	03/29/10	0.010	0	0	0	0	0	0	**1**	0	0	0	0	0	0	0	0	0
	06/30/10	0.009	0	0	0	0	0	0	**1**	0	0	0	0	0	0	0	0	0
	09/20/10	0.007	0	0	0	0	0	**1**	0	0	0	0	0	0	0	0	0	0
	12/08/10	0.018	0	0	0	0	0	0	**1**	0	0	0	0	0	0	0	0	0
	03/14/11	0.020	0	0	0	0	0	0	**1**	0	0	0	0	0	0	0	0	0
	06/02/11	0.020	0	0	0	0	0	0	**1**	0	0	0	0	0	0	0	0	0
	09/07/11	0.020	0	0	0	0	0	0	**1**	0	0	0	0	0	0	0	0	0
	12/05/11	0.020	0	0	0	0	0	0	**1**	0	0	0	0	0	0	0	0	0
	03/06/12	0.010	0	0	0	0	0	0	0	**1**	0	0	0	0	0	0	0	0
	06/11/12	0.050	0	0	0	0	0	0	**1**	**0**	0	0	0	0	0	0	0	0
		0.025 Average	**0**	**0**	**0**	**0**	**0**	**1**	**29**	**1**	**13**	**0**	**20**	**2**	**3**	**0**	**0**	**0**

Explanation

NA = Not available

Number of Events = 67

Appendix A

Previous Investigation and Site History Summary

PREVIOUS INVESTIGATION AND SITE HISTORY SUMMARY

October 1991 - Four soil samples were collected from the product pipe trenches at depths of approximately 3 feet below ground surface (bgs) during a dispenser island modification. The product pipe trenches were subsequently excavated to the groundwater depth at 4 to 4.5 feet bgs.

February 1992 - Three monitoring wells, MW-1 through MW-3, were installed at the site to depths ranging from 13.5 to 15 feet bgs.

August 1992 - Three additional monitoring wells, MW-4 through MW-6, were installed at the site to a depth of 13.5 feet bgs.

September 1994 - One 280-gallon waste-oil UST was removed from the site. The UST was made of steel, and no apparent holes or cracks were observed in the UST. One soil sample was collected from beneath the former UST at a depth of approximately 9 feet bgs. No petroleum hydrocarbons were reported.

January 1995 - Two additional monitoring wells, MW-9 and MW-10, were installed to depths of 13 and 15 feet bgs. In addition, monitoring wells MW-4 and MW-5 were destroyed by over-drilling the wells and backfilling with neat cement.

March 1995 - Two 10,000-gallon gasoline USTs and one 10,000-gallon diesel UST were removed from the site. Groundwater was encountered in the tank cavity at a depth of approximately 8.5 feet bgs. Soil samples contained total petroleum hydrocarbons as diesel (TPHd) and benzene, and TPH as gasoline (TPHg). Approximately 125,000 gallons of groundwater were pumped from the site for remediation and properly disposed off-site. Four fuel dispenser islands and associated product piping were also removed. Based on the results of the confirmation samples, the product dispenser islands were over excavated to approximately 6 feet bgs.

March-April 1995 - During demolition activities of the former station building, soil samples were collected from two excavations, which were subsequently over excavated. Confirmation samples contained petroleum hydrocarbons. An additional area on the south side of the former station building was excavated based on photo-ionization detector (PID) readings. Two monitoring wells, MW-1 and MW-2, were destroyed in order to allow for over excavation activities to extend to an area adjacent to the dispenser islands in the southeastern quadrant of the site. The excavated areas were subsequently backfilled with clean-engineered fill.

April 1997 - Two additional monitoring wells, MW-7 and MW-8, were installed off-site to the south and east on the neighboring property to a depth of 13 feet bgs. In addition, monitoring well MW-3, which was damaged during site renovation activities, was fully drilled out and reconstructed in the same borehole.

October 2003 - Site environmental consulting responsibilities were transferred to TRC.

April 8-9, 2005 - TRC conducted a 24-hour dual phase extraction (DPE) test at the site using monitoring well MW-6. The 24-hour DPE test was only moderately successful at removing vapor-phase petroleum hydrocarbons from the subsurface; therefore, TRC recommended DPE no longer be considered a viable remedial alternative for the site.

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

December 2009 - Delta advanced two borings, B-4 and B-5, to depths of 20 feet bgs and 32 feet bgs, respectively. Analytical results from the soil and groundwater samples collected from these two borings indicated that the soil and the groundwater were impacted by petroleum hydrocarbons at these locations.

June 2010 – Delta installed two 4-inch diameter monitoring/extraction wells, MW-11 and MW-12, and two 2-inch diameter monitoring wells, MW-12A and MW-13, at the site. Analytical results from the soil and groundwater samples collected from the MW-12 and MW-12A boring locations indicated that the soil and the groundwater were impacted by petroleum hydrocarbons at these locations.

May 2011 – Antea Group (formally Delta Consultants) installed four 2-inch diameter monitoring wells, MW-14 through MW-17, and advanced one soil boring, B-6, at the site. All four monitoring wells were installed with ten feet of screen from 3 feet bgs to 13 feet bgs. Analytical results of soil samples collected during the monitoring well installation reported TPHg concentrations ranging from 1.0 milligrams per kilogram (mg/kg) (MW-14d13) to 2,490 mg/kg (B-6d9), benzene concentrations ranging from 0.67 mg/kg (B-6d21) to 26.4 mg/kg (B-6d9), toluene concentrations ranging from 0.2 mg/kg (MW-14d10) to 73.9 mg/kg (B-6d9), ethylbenzene concentrations ranging from 0.037 mg/kg (MW-14d13) to 58.1 mg/kg (B-6d9), total xylenes concentrations ranging from 0.066 mg/kg (MW-14d13) to 230 mg/kg (B-6d9), methyl tertiary-butyl ether (MTBE) concentrations ranging from 0.015 mg/kg (MW-15d13) to 0.19 mg/kg (MW-15d8), tertiary-butyl alcohol (TBA) concentrations ranging from 0.014 mg/kg (MW-16d8 and B-6d21) to 0.16 mg/kg (MW-15d8), and lead concentrations ranging from 5.5 mg/kg (MW-16d13) to 16.3 mg/kg (MW-17d9). Diesel range organics (DRO) and DRO with silica gel concentrations were reported; however, all of the results did not match the laboratory standard for diesel. Concentrations of DRO ranged from 2.9 mg/kg (MW-17d13) to 258 mg/kg (B-6d14) and DRO with silica gel concentrations ranged from 2.5 mg/kg (MW-17d13) to 250 mg/kg (B-6d14).

March 2012 – Antea Group advanced five soil borings (HPB-1 through HPB-5) at the site. The borings were advanced using direct push technology. The borings were used to obtain a hydraulic profile of the substrate beneath the site. The data obtained during the investigation will be used to determine the best path forward in terms of remediation.

SENSITIVE RECEPTORS

April 24, 2006, TRC completed a sensitive receptor survey for the site. According to the Department of Water Resources (DWR) records, three water supply wells are located within one-half mile of the site. The closest well is an irrigation well, reported to be, approximately 1,080 feet southeast of the site. In addition, two surface water bodies were observed within a one-half mile radius of the site. San Leandro Creek is located approximately 1,400 feet southwest of the site and flows into the San Leandro Bay. Elmhurst Creek is located approximately 2,220 feet north of the site and also flows into the San Leandro Bay.

Current Consultant: **Antea Group**

Appendix B

Blaine Tech 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.

Appendix C

Blaine Tech Services Groundwater Sampling Field Data Sheets

Well-Head Inspection & Well Gauging Form

Antea Group Project No: 2705191 **Site Address:** 449 Hegenberger Rd., Oakland, CA

Field Technician: Gregory Roberts, Blaine Tech Services (Print Full Name & Company*) **Date:** 6/11/2012 **Weather:** Clear, calm

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
5	MW-3	G	P	P	G	G	Y	2	0903	2.99	14.01			-water bailed
12	MW-6	G	G	G	G	G	Y	2	1000	3.33	12.73			
2	MW-7	G	G	G	G	G	N	2	0840	4.93	13.03			
1	MW-8	G	G	G	G	G	N	2	0837	3.08	14.78			
4	MW-9	P	P	P	G	G	Y	2	0858	1.75	12.65			-water bailed
7	MW-10	G	G	G	G	G	N	2	0920	3.99	12.71			
6	MW-11	G	G	G	G	G	N	4	0913	2.24	19.63			
11	MW-12	G	G	G	G	G	N	4	0953	4.20	19.54			
3	MW-12A	G	G	G	G	G	Y	2	0850	4.36	32.69			
8	MW-13	G	G	G	G	G	N	2	0926	5.73	14.60			
13	MW-14	G	G	G	G	G	N	2	1005	3.91	12.84			
9	MW-15	G	G	G	G	G	N	2	0936	2.84	12.78			
10	MW-16	G	G	G	G	G	N	2	0947	3.04	12.75			
14	MW-17	G	G	G	G	G	N	2	1010	4.67	12.74			

Notes: MW-9 = 1/3 tabs broken off; MW-3 = 1/2 tabs stripped

** 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 Fo

Site Address:	449 Hegenberger Rd., Oakland, CA		
Project No:	2705191	Field Technician:	Gregory Roberts
Field Point:	MW-3	Date:	6/11/2012
Depth to Water (DTW) (ft bgs):	2.99	Well Diameter (in):	(2) 4 6 8 ___
Depth to LNAPL (ft bgs):		Thickness of LNAPL (ft):	
Total Depth of Well (ft bgs):	14.01	Water Column Height (ft):	11.02

Purging Info and Calculations:

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

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

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

Water Column Height (ft): 11.02 X Conversion Factor (gal/ft): 0.17 = Casing Volume (gal): 1.9

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

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

Purge: Start Time: 1312 Stop Time: 1317

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				—		—		
1313	23.82	6.68	6154	-129.7	22	0.91	1.0	
1314	24.33	6.64	3302	-122.4	97	1.42	2.0	
1315	24.14	6.49	2880	-118.0	56	1.40	3.0	
1316	24.27	6.49	2913	-125.4	19	1.85	4.0	
1317	23.28	6.44	3010	-122.4	16	2.30	5.0	
1317		well	dewatered				5.3	11.57
1545	22.06	6.45	2883	-93.9	43	3.53	Grab	
Post-Purge				—		—		

Did Well dewater? (Yes) No Total Purge volume (gal): 5.3

Other Comments: 80% - 5.19 * Purged Through Flow Cell
DTW - 8.76 (>2hrs)

Sample Info:

Sample ID: MW-3_20120630 Sample Date and Time: 6/11/2012 @ 1545

Selected Analysis: See COC

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

Signature: _____ Date: 6/11/2012

anteagroup
Antea™Group, 1-800-477-7411

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

Groundwater Sampling Fo

Site Address:	449 Hegenberger Rd., Oakland, CA		
Project No:	270519	Field Technician:	Gregory Roberts
Field Point:	MW-6	Date:	6/12/2012
Depth to Water (DTW) (ft bgs):	3.33	Well Diameter (in):	(2) 4 6 8 ___
Depth to LNAPL (ft bgs):		Thickness of LNAPL (ft):	
Total Depth of Well (ft bgs):	12.73	Water Column Height (ft):	9.40

Purging Info and Calculations:

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

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

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

Water Column Height (ft): 9.40 X Conversion Factor (gal/ft): 0.17 = Casing Volume (gal): 1.6

Casing Volume (gal): 1.6 X Specified Volumes: 3 = Calculated Purge (gal): 4.8

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

Purge: Start Time: 0838 Stop Time: 0843

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				—		—		
0839	19.34	6.32	25810	0.1	38	2.80	1.0	
0840	19.31	6.78	8427	-88.7	29	2.28	2.0	
0841	20.37	6.79	2922	-120.3	18	0.94	3.0	
0842	21.12	6.84	2751	-128.4	12	0.91	4.0	
0843		well	dewatered				4.5	11.04
1100	20.93	6.90	2539	2.5	23	3.18	Grab	
Post-Purge				—		—		

Did Well dewater? (Yes) No Total Purge volume (gal): 4.5

Other Comments: 80% - 5.21 * Purged Through Flow Cell * Collected FD1-20120630 @ 1105
DTW - 6.72 (>2hrs)

Sample Info:

Sample ID: MW-6_20120630 Sample Date and Time: 6/12/2012 @ 1100

Selected Analysis: See COC

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

Signature: _____ Date: 6/12/2012

anteagroup

Antea™Group, 1-800-477-7411

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

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

Groundwater Sampling Fo

Site Address:	449 Hegenberger Rd., Oakland, CA		
Project No:	2705191	Field Technician:	Gregory Roberts
Field Point:	MW-7	Date:	6/11/2012
Depth to Water (DTW) (ft bgs):	4.93	Well Diameter (in):	(2) 4 6 8 ___
Depth to LNAPL (ft bgs):		Thickness of LNAPL (ft):	
Total Depth of Well (ft bgs):	13.03	Water Column Height (ft):	8.10

Purging Info and Calculations:

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

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

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

Water Column Height (ft): 8.10 X Conversion Factor (gal/ft): 0.17 = Casing Volume (gal): 1.4

Casing Volume (gal): 1.4 X Specified Volumes: 3 = Calculated Purge (gal): 4.2

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

Purge: Start Time: 1136 Stop Time: 1141

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				—		—		
1137	21.89	6.48	14074	-79.0	41	1.01	0.75	
1138	22.73	6.52	12770	-66.4	119	3.19	1.5	
1139	22.43	6.68	2773	-45.3	24	1.78	2.25	
1140	22.86	6.62	1712	-34.0	10	1.21	3.0	
1141	well dewatered						3.3	11.30
1455	24.66	6.62	997	47.5	11	5.65	Grab	
Post-Purge				—		—		

Did Well dewater? (Yes) No Total Purge volume (gal): 3.3

Other Comments: 80% - 6.55 * Purged Through Flow Cell
DTW - 7.54 (>2hrs)

Sample Info:

Sample ID: MW-7_20120630 Sample Date and Time: 6/11/2012 @ 1455

Selected Analysis: See COC

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

Signature: _____ Date: 6/11/2012

anteagroup
Antea™Group, 1-800-477-7411

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

Groundwater Sampling Fo

Site Address:	449 Hegenberger Rd., Oakland, CA		
Project No:	270519	Field Technician:	Gregory Roberts
Field Point:	MW-8	Date:	6/11/2012
Depth to Water (DTW) (ft bgs):	3.08	Well Diameter (in):	(2) 4 6 8 ___
Depth to LNAPL (ft bgs):		Thickness of LNAPL (ft):	
Total Depth of Well (ft bgs):	14.78	Water Column Height (ft):	11.70

Purging Info and Calculations:

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

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

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

Water Column Height (ft): 11.70 X Conversion Factor (gal/ft): 0.17 = Casing Volume (gal): 2.0

Casing Volume (gal): 2.0 X Specified Volumes: 3 = Calculated Purge (gal): 6.0

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

Purge: Start Time: 1102 Stop Time: 1121

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				—		—		
1103	26.36	7.01	2872	-189.0	1000	2.26	1.0	
1104	24.31	6.51	11200	-99.6	356	7.78	2.0	
1105	22.78	6.30	10238	-91.6	63	9.26	3.0	
1106	23.52	6.28	10358	-95.2	31	9.40	4.0	
1107	23.15	6.27	10507	-96.5	18	8.57	5.0	
1108	23.55	6.27	10649	-98.9	14	7.72	6.0	
1109	21.18	6.27	10901	-101.4	22	6.57	7.0	
1110	21.19	6.28	10989	-99.0	34	5.53	8.0	
Post-Purge				—		—		

Did Well dewater? (Yes) No Total Purge volume (gal): 9.5

Other Comments: 80% - 5.42 * Purged Through Flow Cell
DTW - 3.21

Sample Info:

Sample ID: MW-8_20120630 Sample Date and Time: 6/11/2012 @ 1430

Selected Analysis: See COC

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

Signature: _____ Date: 6/11/2012

anteagroup
Antea™Group, 1-800-477-7411

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

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

Groundwater Sampling Fo

Site Address:	449 Hegenberger Rd., Oakland, CA		
Project No:	270519	Field Technician:	Gregory Roberts
Field Point:	MW-8	Date:	6/11/2012
Depth to Water (DTW) (ft bgs):	3.08	Well Diameter (in):	(2) 4 6 8 ___
Depth to LNAPL (ft bgs):		Thickness of LNAPL (ft):	
Total Depth of Well (ft bgs):	14.78	Water Column Height (ft):	11.70

Purging Info and Calculations:

Purge Method:

Low-Flow
(3 casing volumes)
Other:_____

Purge Equipment:

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

Sample Collection Method:

(Disposable Bailer) w/ BED
Extraction Port
Dedicated Tubing
Disposable Tubing
Other:_____

Water Column Height (ft): 11.70 X Conversion Factor (gal/ft): 0.17 = Casing Volume (gal): 2.0

Casing Volume (gal): 2.0 X Specified Volumes: 3 = Calculated Purge (gal): 6.0

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

Purge: Start Time: 1107 Stop Time: 1141

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				—		—		
1111	21.27	6.31	12016	-94.2	57	2.22	9.0	
1141	well dewatered						9.5	12.35
Post-Purge				—		—		

Did Well dewater? (Yes) No Total Purge volume (gal): 9.5

Other Comments: 80% - 5.42 * Purged Through Flow Cell
DTW - 3.21

Sample Info:

Sample ID:	MW-8_20120630	Sample Date and Time:	6/11/2012 @ 1430
Selected Analysis:	See COC		

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

Signature: _____ Date: 6/11/2012

anteagroup
Antea™Group, 1-800-477-7411

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

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

Groundwater Sampling Fo

Site Address:	449 Hegenberger Rd., Oakland, CA		
Project No:	2705191	Field Technician:	Gregory Roberts
Field Point:	MW-9	Date:	6/11/2012
Depth to Water (DTW) (ft bgs):	1.75	Well Diameter (in):	(2) 4 6 8 ___
Depth to LNAPL (ft bgs):		Thickness of LNAPL (ft):	
Total Depth of Well (ft bgs):	12.65	Water Column Height (ft):	10.90

Purging Info and Calculations:

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

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

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

Water Column Height (ft): 10.90 X Conversion Factor (gal/ft): 0.17 = Casing Volume (gal): 1.8

Casing Volume (gal): 1.8 X Specified Volumes: 3 = Calculated Purge (gal): 5.4

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

Purge: Start Time: 1230 Stop Time: 1236

Time	Temp (°C)	pH	Conductivity (µS/cm)	ORP (mV)	Turbidity (NTU)	D.O. (mg/L)	Volume Purged (gal)	Water Level (for Low-Flow only)
Pre-Purge				—		—		
1231	21.84	6.72	3578	-13.2	26	0.67	1.0	
1232	23.09	6.69	5422	-102.0	370	1.29	2.0	
1233	22.84	6.57	1499	-107.6	39	0.82	3.0	
1234	23.77	6.63	1585	-115.0	15	0.85	4.0	
1235	22.92	6.58	3477	-116.4	11	1.44	5.0	
1236	well dewatered						5.5	10.85
1520	25.97	6.50	430	24.1	6	3.02	Grab	
Post-Purge				—		—		

Did Well dewater? (Yes) No Total Purge volume (gal): 5.5

Other Comments: 80% - 3.93 * Purged Through Flow Cell
DTW - 1.10

Sample Info:

Sample ID:	MW-9_20120630	Sample Date and Time:	6/11/2012 @ 1520
Selected Analysis:	See COC		

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

Signature: _____ Date: 6/11/2012

anteagroup
Antea™Group, 1-800-477-7411

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

Groundwater Sampling Fo

Site Address:	449 Hegenberger Rd., Oakland, CA		
Project No:	2705191	Field Technician:	Gregory Roberts
Field Point:	MW-10	Date:	6/11/2012
Depth to Water (DTW) (ft bgs):	3.99	Well Diameter (in):	(2) 4 6 8 ___
Depth to LNAPL (ft bgs):		Thickness of LNAPL (ft):	
Total Depth of Well (ft bgs):	12.71	Water Column Height (ft):	8.72

Purging Info and Calculations:

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

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

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

Water Column Height (ft): 8.72 X Conversion Factor (gal/ft): 0.17 = Casing Volume (gal): 1.5

Casing Volume (gal): 1.5 X Specified Volumes: 3 = Calculated Purge (gal): 4.5

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

Purge: Start Time: 1400 Stop Time: 1406

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				—		—		
1401	23.22	7.18	1166	-65.8	4	0.84	0.75	
1402	24.67	7.08	2198	-57.3	3	3.33	1.5	
1403	22.91	6.91	2813	-40.6	23	1.16	2.25	
1404	21.78	6.84	2562	-31.4	10	0.80	3.0	
1405	21.28	6.77	2343	-30.6	18	0.77	3.75	
1406	21.13	6.73	2265	-33.0	31	0.76	4.5	5.00
Post-Purge				—		—		

Did Well dewater? Yes (No) Total Purge volume (gal): 4.5

Other Comments: 80% - 5.73 * Purged Through Flow Cell
DTW - 5.00

Sample Info:

Sample ID: MW-10_20120630 Sample Date and Time: 6/11/2012 @ 1410

Selected Analysis: See COC

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

Signature: _____ Date: 6/11/2012

anteagroup
Antea™Group, 1-800-477-7411

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

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

Groundwater Sampling Fo

Site Address:	449 Hegenberger Rd., Oakland, CA		
Project No:	2705191	Field Technician:	Gregory Roberts
Field Point:	MW-11	Date:	6/11/2012
Depth to Water (DTW) (ft bgs):	2.24	Well Diameter (in):	2 (4) 6 8 ___
Depth to LNAPL (ft bgs):		Thickness of LNAPL (ft):	
Total Depth of Well (ft bgs):	19.63	Water Column Height (ft):	17.39

Purging Info and Calculations:

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

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

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

Water Column Height (ft): 17.39 X Conversion Factor (gal/ft): 0.66 = Casing Volume (gal): 11.5

Casing Volume (gal): 11.5 X Specified Volumes: 3 = Calculated Purge (gal): 34.5

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

Purge: Start Time: 1327 Stop Time: 1339

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				—		—		
1329	20.53	6.92	1137	-84.8	31	0.72	5.75	
1331	21.03	6.76	1158	-63.5	12	0.64	11.5	
1333	21.19	6.81	1161	-57.6	7	0.59	17.25	
1335	21.24	6.86	1161	-53.9	4	0.57	23.0	
1337	21.28	6.89	1158	-51.1	4	0.58	28.75	
1339	21.31	6.91	1155	-49.3	4	0.57	34.5	4.44
Post-Purge				—		—		

Did Well dewater? Yes (No) Total Purge volume (gal): 34.5

Other Comments: 80% - 5.72 * Purged Through Flow Cell
DTW - 4.44

Sample Info:

Sample ID: MW-11_20120630 Sample Date and Time: 6/11/2012 @ 1345

Selected Analysis: See COC

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

Signature: Date: 6/11/2012

anteagroup

Antea™Group, 1-800-477-7411

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

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

Groundwater Sampling Fo

Site Address:	449 Hegenberger Rd., Oakland, CA		
Project No:	2705191	Field Technician:	Gregory Roberts
Field Point:	MW-12	Date:	6/12/2012
Depth to Water (DTW) (ft bgs):	4.20	Well Diameter (in):	2 (4) 6 8 ___
Depth to LNAPL (ft bgs):		Thickness of LNAPL (ft):	
Total Depth of Well (ft bgs):	19.54	Water Column Height (ft):	15.34

Purging Info and Calculations:

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

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

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

Water Column Height (ft): 15.34 X Conversion Factor (gal/ft): 0.66 = Casing Volume (gal): 10.1

Casing Volume (gal): 10.1 X Specified Volumes: 3 = Calculated Purge (gal): 30.3

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

Purge: Start Time: 0819 Stop Time: 0832

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				—		—		
0821	18.73	6.40	22925	-28.5	48	1.22	5.25	
0823	19.01	6.57	21522	-90.0	16	1.25	10.5	
0825	19.35	6.61	22116	-86.2	24	1.44	15.75	
0827	19.01	6.39	24277	-52.1	14	1.76	21.0	
0829	19.05	6.34	24904	-39.9	11	1.98	26.25	
0831	19.16	6.32	25284	-30.3	9	2.09	31.5	
0832		well dewatered					33.0	17.38
Post-Purge				—		—		

Did Well dewater? (Yes) No Total Purge volume (gal): 33.0

Other Comments: 80% - 7.27 * Purged through Flow cell
DTW - 5.07

Sample Info:

Sample ID:	MW-12_20120630	Sample Date and Time:	6/12/2012 @ 1040
Selected Analysis:	See COC		

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

Signature: _____ Date: 6/12/2012

anteagroup
Antea™Group, 1-800-477-7411

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

Groundwater Sampling Fo

Site Address:	449 Hegenberger Rd., Oakland, CA		
Project No:	2705191	Field Technician:	Gregory Roberts
Field Point:	MW-12A	Date:	6/11/2012
Depth to Water (DTW) (ft bgs):	4.36	Well Diameter (in):	(2) 4 6 8 ___
Depth to LNAPL (ft bgs):		Thickness of LNAPL (ft):	
Total Depth of Well (ft bgs):	32.69	Water Column Height (ft):	28.33

Purging Info and Calculations:

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

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

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

Water Column Height (ft): 28.33 X Conversion Factor (gal/ft): 0.17 = Casing Volume (gal): 4.8

Casing Volume (gal): 4.8 X Specified Volumes: 3 = Calculated Purge (gal): 14.4

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

Purge: Start Time: 1151 Stop Time: 1200

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				—		—		
1153	20.50	6.70	3362	-27.3	>1000	1.40	2.5	
1154	19.82	6.64	3933	-16.8	772	0.61	5.0	
1155	19.76	6.61	3784	-13.6	316	0.53	7.5	
1156	19.76	6.60	3738	-12.8	100	0.47	10.0	
1157	19.76	6.60	3691	-13.0	58	0.44	12.5	
1158	19.77	6.61	3646	-13.6	39	0.41	15.0	
1159	19.77	6.62	3603	-14.4	31	0.39	17.5	
1200	19.78	6.63	3588	-15.2	27	0.40	20.0	4.58
Post-Purge				—		—		

Did Well dewater? Yes (No) Total Purge volume (gal): 20.0

Other Comments: 80% - 10.03 * Purged Through Flow Cell

DTW - 4.58 * Collected MS/MSD

Sample Info:

Sample ID: MW-12A_20120630 Sample Date and Time: 6/11/2012 @ 1210

Selected Analysis: See COC

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

Signature: _____ Date: 6/11/2012

anteagroup

Antea™Group, 1-800-477-7411

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

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

Groundwater Sampling Fo

Site Address:	449 Hegenberger Rd., Oakland, CA		
Project No:	2705191	Field Technician:	Gregory Roberts
Field Point:	MW-13	Date:	6/12/2012
Depth to Water (DTW) (ft bgs):	5.73	Well Diameter (in):	(2) 4 6 8 ___
Depth to LNAPL (ft bgs):		Thickness of LNAPL (ft):	
Total Depth of Well (ft bgs):	14.60	Water Column Height (ft):	8.87

Purging Info and Calculations:

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

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

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

Water Column Height (ft): 8.87 X Conversion Factor (gal/ft): 0.17 = Casing Volume (gal): 1.5

Casing Volume (gal): 1.5 X Specified Volumes: 3 = Calculated Purge (gal): 4.5

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

Purge: Start Time: 0727 Stop Time: 0735

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				—		—		
0728	19.86	6.70	1988	-119.4	5	1.14	0.75	
0729	18.75	6.96	3294	-118.8	15	1.24	1.5	
0730	18.61	7.21	4416	-158.7	300	1.01	2.25	
0731	19.07	7.17	3718	-146.8	115	0.91	3.0	
0732	19.47	7.15	3718	-146.2	70	0.90	3.75	
0733	19.57	7.16	3926	-148.3	44	0.90	4.5	
0734	19.53	7.14	4447	-147.3	40	0.96	5.25	
0735	19.43	7.10	4859	-144.4	37	1.06	6.0	8.41
Post-Purge				—		—		

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

Other Comments: 80% - 7.50 * Purged Through Flow Cell
DTW - 5.03

Sample Info:

Sample ID:	MW-13_2012.0630	Sample Date and Time:	6/12/2012 @ 0935
Selected Analysis:	See COC		

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

Signature: _____ Date: 6/12/2012

anteagroup
Antea™Group, 1-800-477-7411

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

Groundwater Sampling Fo

Site Address:	449 Hegenberger Rd., Oakland, CA		
Project No:	2705191	Field Technician:	Gregory Roberts
Field Point:	MW-14	Date:	6/12/2012
Depth to Water (DTW) (ft bgs):	3.91	Well Diameter (in):	(2) 4 6 8 ___
Depth to LNAPL (ft bgs):		Thickness of LNAPL (ft):	
Total Depth of Well (ft bgs):	12.84	Water Column Height (ft):	8.93

Purging Info and Calculations:

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

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

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

Water Column Height (ft): 8.93 X Conversion Factor (gal/ft): 0.17 = Casing Volume (gal): 1.5

Casing Volume (gal): 1.5 X Specified Volumes: 3 = Calculated Purge (gal): 4.5

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

Purge: Start Time: 0851 Stop Time: 0857

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				—		—		
0852	20.06	6.81	3483	-114.9	13	0.97	0.75	
0853	19.73	6.95	4591	-122.5	23	2.10	1.5	
0854	18.97	7.02	16715	-134.6	734	1.05	2.25	
0855	18.94	6.93	8735	-107.8	133	1.02	3.0	
0856	19.44	6.80	8103	-92.5	109	0.82	3.75	
0857	19.41	6.92	9486	-113.6	96	0.80	4.5	
0857		well	dewatered				4.7	12.03
Post-Purge				—		—		

Did Well dewater? (Yes) No Total Purge volume (gal): 4.7

Other Comments: 80% - 5.70 * Purged through Flow Cell
DTW - 6.73 (>2hrs)

Sample Info:

Sample ID:	MW-14_20120630	Sample Date and Time:	6/12/2012 @ 1125
Selected Analysis:	See COC		

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

Signature: _____ Date: 6/12/2012

Groundwater Sampling Fo

Site Address:	449 Hegenberger Rd., Oakland, CA		
Project No:	2705191	Field Technician:	Gregory Roberts
Field Point:	MW-15	Date:	6/12/2012
Depth to Water (DTW) (ft bgs):	2.84	Well Diameter (in):	(2) 4 6 8 __
Depth to LNAPL (ft bgs):		Thickness of LNAPL (ft):	
Total Depth of Well (ft bgs):	12.78	Water Column Height (ft):	9.94

Purging Info and Calculations:

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

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

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

Water Column Height (ft): 9.94 X Conversion Factor (gal/ft): 0.17 = Casing Volume (gal): 1.7

Casing Volume (gal): 1.7 X Specified Volumes: 3 = Calculated Purge (gal): 5.1

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

Purge: Start Time: 0749 Stop Time: 0755

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				—		—		
0750	18.75	7.07	5716	-116.0	36	1.02	1.0	
0751	18.36	6.95	5081	-91.0	360	2.32	2.0	
0752	19.44	6.26	1553	-61.7	38	2.38	3.0	
0753	19.88	6.31	1579	-73.3	37	3.83	4.0	
0754	19.91	6.43	2079	-78.0	46	4.53	5.0	
0755	well dewatered						5.5	10.85
0955	19.38	7.04	4750	-43.7	855	3.42	Grab	
Post-Purge				—		—		

Did Well dewater? (Yes) No Total Purge volume (gal): 5.5

Other Comments: 80% - 4.83 * Purged Through Flow Cell
DTW - 9.40 (>2hrs)

Sample Info:

Sample ID: MW-15_20120630 Sample Date and Time: 6/12/2012 @ 0955

Selected Analysis: See COC

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

Signature: _____ Date: 6/12/2012

anteagroup
Antea™Group, 1-800-477-7411

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

Groundwater Sampling Fc

Site Address:	449 Hegenberger Rd., Oakland, CA		
Project No:	2705191	Field Technician:	Gregory Roberts
Field Point:	MW-16	Date:	6/12/2012
Depth to Water (DTW) (ft bgs):	3.04	Well Diameter (in):	(2) 4 6 8 ___
Depth to LNAPL (ft bgs):		Thickness of LNAPL (ft):	
Total Depth of Well (ft bgs):	12.75	Water Column Height (ft):	9.71

Purging Info and Calculations:

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

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

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

Water Column Height (ft): 9.71 X Conversion Factor (gal/ft): 0.17 = Casing Volume (gal): 1.6

Casing Volume (gal): 1.6 X Specified Volumes: 3 = Calculated Purge (gal): 4.8

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

Purge: Start Time: 0804 Stop Time: 0812

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				—		—		
0805	19.29	6.71	4054	-73.8	53	1.26	1.0	
0806	19.16	6.72	3604	-72.4	>1000	2.88	2.0	
0807	21.07	6.69	3263	-60.1	282	1.48	3.0	
0808	22.65	6.81	3240	-55.2	75	1.78	4.0	
0809	22.85	6.86	3287	-64.5	61	1.95	5.0	
0810	22.80	6.89	3417	-71.7	78	2.00	6.0	
0811	22.56	6.91	3542	-84.3	67	2.00	7.0	
0812	22.26	6.92	3578	-85.9	69	1.99	8.0	10.98
Post-Purge				—		—		

Did Well dewater? Yes (No) Total Purge volume (gal): 8.0

Other Comments: 80% - 4.98 * Purged through Flow cell
DTW - 8.09 (>2hrs)

Sample Info:

Sample ID: MW-16_20120630 Sample Date and Time: 6/12/2012 @ 1020

Selected Analysis: See COC

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

Signature: _____ Date: 6/12/2012

anteagroup
Antea™Group, 1-800-477-7411

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

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

Groundwater Sampling Fo

Site Address:	449 Hegenberger Rd., Oakland, CA		
Project No:	270519	Field Technician:	Gregory Roberts
Field Point:	MW-17	Date:	6/12/2012
Depth to Water (DTW) (ft bgs):	4.67	Well Diameter (in):	(2) 4 6 8 ___
Depth to LNAPL (ft bgs):		Thickness of LNAPL (ft):	
Total Depth of Well (ft bgs):	12.74	Water Column Height (ft):	8.07

Purging Info and Calculations:

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

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

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

Water Column Height (ft): 8.07 X Conversion Factor (gal/ft): 0.17 = Casing Volume (gal): 1.4

Casing Volume (gal): 1.4 X Specified Volumes: 3 = Calculated Purge (gal): 4.2

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

Purge: Start Time: 0907 Stop Time: 0913

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				—		—		
0908	18.98	7.08	15867	-133.9	62	0.99	0.75	
0909	18.75	7.03	18218	-128.0	57	1.72	1.5	
0910	18.92	6.49	36001	-117.2	262	1.04	2.25	
0911	18.97	6.76	26561	-156.4	60	0.86	3.0	
0912	19.11	6.77	26705	-154.3	49	0.90	3.75	
0913	19.18	6.71	29691	-159.2	49	1.06	4.5	
0913		well	dewatered				4.7	11.89
Post-Purge				—		—		

Did Well dewater? (Yes) No Total Purge volume (gal): 4.7

Other Comments: 80% - 6.28 * Purged through Flow cell
DTW - 10.12 (>2hrs)

Sample Info:

Sample ID: MW-17_20120630 Sample Date and Time: 6/12/2012 @ 1140

Selected Analysis: See COC

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

Signature: _____ Date: 6/12/2012

anteagroup
Antea™Group, 1-800-477-7411

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

20120630.2705191.WG_Q_201206.BO

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
Cooler # ____ of ____

2Q12 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 #:	2705191
Task:	WG_Q_201206
AnteaGrp proj#	
Site Address	449 Hegenberger
City	Oakland
State	CA 94621
AG PM Name:	Dennis Dettloff
Phone/Fax:	P: 1-800-477-7411 F: 916-638-8385
AG PM Email:	dennis.dettloff@anteagroup.com

Required Invoice Information:

Send Invoice to:	Tara Bosch
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	
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	WI
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: 300Sulfate	353.2 NitrateN	6010IronTotal	8015TPHDiesel W/Silica	8260 GC/MS GRO	8260BtexMtbeTBA	8260Ethanol	Comments/Lab Sample I.D.
1	MW-10_20120630	WG	G	6/11/12	1410	11	N	X	X	X	X					X	X	X	X	X	X	X	
2	MW-11_20120630	WG	G	6/11/12	1345	11	N	X	X	X	X					X	X	X	X	X	X	X	
3	~~MW-12_20120630~~	WG														X	X	X	X	X	X	X	
4	MW-12A_20120630	WG	G	6/11/12	1210	16	N	X	X	X	X					X	X	X	X	X	X	X	
5	~~MW-13_20120630~~	WG														X	X	X	X	X	X	X	
6	~~MW-14_20120630~~	WG														X	X	X	X	X	X	X	
7	~~MW-15_20120630~~	WG														X	X	X	X	X	X	X	
8	~~MW-16_20120630~~	WG														X	X	X	X	X	X	X	
9	~~MW-17_20120630~~	WG														X	X	X	X	X	X	X	
10	~~MW-6_20120630~~	WG														X	X	X	X	X	X	X	
11	~~FD1_20120630~~	W																		X	X	X	
12	MW-3_20120630	WG	G	6/11/12	1545	11	N	X	X	X	X					X	X	X	X	X	X	X	
13	MW-7_20120630	WG	G	6/11/12	1455	11	N	X	X	X	X					X	X	X	X	X	X	X	
14	MW-8_20120630	WG	G	6/11/12	1430	11	N	X	X	X	X					X	X	X	X	X	X	X	
15	MW-9_20120630	WG	G	6/11/12	1520	11	N	X	X	X	X					X	X	X	X	X	X	X	

Additional Comments/Special Instructions:

Global ID: T0600101476

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	6/11/12	1730	(sample cust.)	6/11/12	1730

Sample Receipt Conditions

	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

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

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Gregory Roberts

SIGNATURE of SAMPLER: DATE Signed 6/11/12 Time: 1615

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

Final 11/13/06. AMTait

20120630.2705191.WG_Q_201206.BO

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 ____

2Q12 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 #:	2705191
Task:	WG_Q_201206
AnteaGrp proj#	
Site Address	449 Hegenberger
City	Oakland
State	CA 94621
AG PM Name:	Dennis Dettloff
Phone/Fax:	P: 1-800-477-7411 F: 916-638-8385
AG PM Email:	dennis.dettloff@anteagroup.com

Required Invoice Information:

Send Invoice to:	Tara Bosch
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	
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 (SC	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: 300/Sulfate	353.2 NitrateN	6010/IronTotal	8015TPHDiesel W/Silica	8260 GC/MS GRO	8260BtexMtbeTBA	8260Ethanol	Comments/Lab Sample I.D.
1	MW-10_20120630	WG														X	X	X	X	X	X	X	
2	~~MW-11_20120630~~	WG														X	X	X	X	X	X	X	
3	MW-12_20120630	WG	G	6/12/12	1040	11	N	X	X	X	X					X	X	X	X	X	X	X	
4	~~MW-12A_20120630~~	WG														X	X	X	X	X	X	X	
5	MW-13_20120630	WG	G	6/12/12	0935	11	N	X	X	X	X					X	X	X	X	X	X	X	
6	MW-14_20120630	WG	G	6/12/12	1125	11	N	X	X	X	X					X	X	X	X	X	X	X	
7	MW-15_20120630	WG	G	6/12/12	0955	11	N	X	X	X	X					X	X	X	X	X	X	X	
8	MW-16_20120630	WG	G	6/12/12	1020	11	N	X	X	X	X					X	X	X	X	X	X	X	
9	MW-17_20120630	WG	G	6/12/12	1140	11	N	X	X	X	X					X	X	X	X	X	X	X	
10	MW-6_20120630	WG	G	6/12/12	1100	11	N	X	X	X	X					X	X	X	X	X	X	X	
11	FD1_20120630	W	G	6/12/12	1105	6	N				X								X	X	X		
12	~~MW-8_20120630~~	WG														X	X	X	X	X	X	X	
13	~~MW-7_20120630~~	WG														X	X	X	X	X	X	X	
14	~~MW-8_20120630~~	WG														X	X	X	X	X	X	X	
15	~~MW-9_20120630~~	WG														X	X	X	X	X	X	X	

Additional Comments/Special Instructions:

Global ID: T0600101476

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	6/12/12	1330	(sample Cust)	6/12/12	1330

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: Gregory Roberts

SIGNATURE of SAMPLER:

Date Signed: 6/11/12 Time: 1215

Final 11/13/06. AMTait

20120630.2705191.WG_Q_201206.BO

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 ____

anteagroup

2Q12 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 #:	2705191
Task:	WG_Q_201206
AnteaGrp proj#	
Site Address:	449 Hogenberger
City	Oakland
State	CA 94621
AG PM Name:	Dennis Dettloff
Phone/Fax:	P: 1-800-477-7411 F: 916-638-8385
AG PM Email:	dennis.dettloff@anteagroup.com

Required invoice Information:

Send Invoice to:	Tara Bosch
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	
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: 300/Sulfate	353.2 Nitrate/N	6010/Iron Total	8015TPH/Diesel W/Silica	8260 GC/MS GRO	8260/BenMtbeTBA	8260/Ethanol	Comments/Lab Sample I.D.
1	MW-10_20120630	WG														X	X	X	X	X	X	X	
2	~~MW-11_20120630~~	WG														X	X	X	X	X	X	X	
3	MW-12_20120630	WG	G	6/12/12	1040	11	N	X	X	X	X					x	x	x	x	x	x	x	
4	~~MW-12A_20120630~~	WG														X	X	X	X	X	X	X	
5	MW-13_20120630	WG	G	6/12/12	0935	11	N	X	X	X	X					x	x	x	x	x	x	x	
6	MW-14_20120630	WG	G	6/12/12	1125	11	N	X	X	X	X					x	x	x	x	x	x	x	
7	MW-15_20120630	WG	G	6/12/12	0955	11	N	X	X	X	X					x	x	x	x	x	x	x	
8	MW-16_20120630	WG	G	6/12/12	1020	11	N	X	X	X	X					x	x	x	x	x	x	x	
9	MW-17_20120630	WG	G	6/12/12	1140	11	N	X	X	X	X					x	x	x	x	x	x	x	
10	MW-6_20120630	WG	G	6/12/12	1100	11	N	X	X	X	X					x	x	x	x	x	x	x	
11	FD1_20120630	W	G	6/12/12	1105	6	N				X									X	X	X	
12	~~MW-3_20120630~~	WG														X	X	X	X	X	X	X	
13	~~MW-7_20120630~~	WG														X	X	X	X	X	X	X	
14	~~MW-8_20120630~~	WG														X	X	X	X	X	X	X	
15	~~MW-9_20120630~~	WG														X	X	X	X	X	X	X	

Additional Comments/Special Instructions:

COPY

Global ID: T0600101476

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	6/12/12	1330	(sample Cust)	6/12/12	1330

Sample Receipt Conditions

	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

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

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Gregory Roberts

SIGNATURE of SAMPLER:

DATE Signed: 6/11/12 Time: 1215

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

Final 11/13/06. AMTait

20120630.2705191.WG_Q_201206.BO

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 ____

2Q12 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 #:	2705191
Task:	WG_Q_201206
AnteaGrp proj#	
Site Address	449 Hegenberger
City	Oakland
State	CA 94621
AG PM Name:	Dennis Dettloff
Phone/Fax:	P: 1-800-477-7411 F: 916-638-8385
AG PM Email:	dennis.dettloff@anteagroup.com

Required Invoice Information:

Send Invoice to:	Tara Bosch
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	
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	WT	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	AS		
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	300/Sulfate	353.2 Nitrate/N	6010/Iron Total	8015TPHDiesel W/Silic.	8260 GC/MS GRO	8260BenzMtbeTBA	8260Ethanol	Comments/Lab Sample I.D.
1	MW-10_20120630	WG														X	X	X	X	X	X	X	
2	~~MW-11_20120630~~	WG														X	X	X	X	X	X	X	
3	MW-12_20120630	WG	G	6/12/12	1040	11	N	X	X	X	X					X	X	X	X	X	X	X	
4	~~MW-12A_20120630~~	WG														X	X	X	X	X	X	X	
5	MW-13_20120630	WG	G	6/12/12	0935	11	N	X	X	X	X					X	X	X	X	X	X	X	
6	MW-14_20120630	WG	G	6/12/12	1125	11	N	X	X	X	X					X	X	X	X	X	X	X	
7	MW-15_20120630	WG	G	6/12/12	0955	11	N	X	X	X	X					X	X	X	X	X	X	X	
8	MW-16_20120630	WG	G	6/12/12	1020	11	N	X	X	X	X					X	X	X	X	X	X	X	
9	MW-17_20120630	WG	G	6/12/12	1140	11	N	X	X	X	X					X	X	X	X	X	X	X	
10	MW-6_20120630	WG	G	6/12/12	1100	11	N	X	X	X	X					X	X	X	X	X	X	X	
11	FD1_20120630	W	G	6/12/12	1105	6	N				X								X	X	X	X	
12	~~MW-3_20120630~~	WG														X	X	X	X	X	X	X	
13	~~MW-7_20120630~~	WG														X	X	X	X	X	X	X	
14	~~MW-8_20120630~~	WG														X	X	X	X	X	X	X	
15	~~MW-9_20120630~~	WG														X	X	X	X	X	X	X	

Additional Comments/Special Instructions:

COPY

Global ID: T0600101476

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	6/12/12	1330	(Sample Cust)	6/12/12	1330

Sample Receipt Conditions

	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

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

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Gregory Roberts

SIGNATURE of SAMPLER:

DATE Signed: 6/12/12 Time: 1215

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

Final 11/13/06. AMTait

TEST EQUIPMENT CALIBRATION LOG

PROJECT NAME site 2705191				PROJECT NUMBER 12061 - GR1			
EQUIPMENT NAME	EQUIPMENT NUMBER	DATE/TIME OF TEST	STANDARDS USED	EQUIPMENT READING	CALIBRATED TO: OR WITHIN 10%:	TEMP.	INITIALS
YSI 556	06F1362AT	6/11/2012 @ 0710	Cond 3900 µS	3901	yes	22.80	GR
			7.0 10.0 4.0 pH	6.99 @ 23.06 10.00 @ 22.99 3.98 @ 22.85	yes		GR
			234 @ 22.58 ORP	234	yes	22.61	GR
			100% DO	99.9	yes	21.54	GR
YSI 556	06F1362AT	6/12/2012 @ 0600	3900 µS Cond	3901	yes	27.57	GR
			7.0 10.0 4.0 pH	7.00 @ 27.43 10.01 @ 27.88 3.99 @ 27.55	yes		GR
			226.5 @ 28°C ORP	226.5	yes	27.98	GR
			100% DO	100.0	yes	24.48	GR

Appendix D

Certified Laboratory Analytical Report and Data Validation Form

Is the Data Set Valid? (circle)	Preservation Temperature (if Known): 4.9 °C
Yes / **No**	

Antea™Group Laboratory Data Validation Sheet

Project/Client: 76 Station No. 5191 / COP-ELT
Project #: I42705191
Date of Validation: 7/16/12 **Date of Analysis:** 6/13 to 6/25
Sample Date: 6/11/12 **Completed By:** ETW
Signature:

Circle or Highlight **Yes** / **No** (below)

Analytical Lab Used and Report # (if any): PAce #: 2512539

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:

#11. R1 RPD value was outside control limits MS/MSD 118704 118705 Nitrite as N
Other Qualifiers:
D3 - sample was diluted
S3 - surrogate recovery exceeded lab control limits
TY - result reported for hydrocarbons within the method-specific range do not match the pattern of the lab standard

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5080

June 26, 2012

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

RE: Project: 2705191
Pace Project No.: 2512539

Dear Dennis Dettloff:
Enclosed are the analytical results for sample(s) received by the laboratory on June 12, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Karen Jang

Karen Jang

karen.jang@pacelabs.com
Project Manager

Enclosures

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

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

CERTIFICATIONS

Project: 2705191
Pace Project No.: 2512539

Washington Certification IDs
940 South Harney Street, Seattle, WA 98108
Alaska CS Certification #: UST-025
Arizona Certification #: AZ0770
California Certification #: 01153CA
Florida/NELAP Certification #: E87617
Oregon Certification #: WA200007
Washington Certification #: C555

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical®
www.pacelabs.com

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

SAMPLE ANALYTE COUNT

Project: 2705191
Pace Project No.: 2512539

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
2512539001	MW-10_20120630	EPA 8015B	AY1	3	PASI-S
		EPA 6010	BGA	1	PASI-S
		EPA 5030B/8260	LPM	11	PASI-S
		CA LUFT	LPM	2	PASI-S
		EPA 300.0	CMS	1	PASI-S
		EPA 353.2	CMS	2	PASI-S
		SM 4500-NO2 B	KMT	1	PASI-S
2512539002	MW-11_20120630	EPA 8015B	AY1	3	PASI-S
		EPA 6010	BGA	1	PASI-S
		EPA 5030B/8260	LPM	11	PASI-S
		CA LUFT	LPM	2	PASI-S
		EPA 300.0	CMS	1	PASI-S
		EPA 353.2	CMS	2	PASI-S
		SM 4500-NO2 B	KMT	1	PASI-S
2512539003	MW-12A_20120630	EPA 8015B	AY1	3	PASI-S
		EPA 6010	BGA	1	PASI-S
		EPA 5030B/8260	LPM	11	PASI-S
		CA LUFT	LPM	2	PASI-S
		EPA 300.0	CMS	1	PASI-S
		EPA 353.2	CMS	2	PASI-S
		SM 4500-NO2 B	KMT	1	PASI-S
2512539004	MW-3_20120630	EPA 8015B	AY1	3	PASI-S
		EPA 6010	BGA	1	PASI-S
		EPA 5030B/8260	LPM	11	PASI-S
		CA LUFT	LPM	2	PASI-S
		EPA 300.0	CMS	1	PASI-S
		EPA 353.2	CMS	2	PASI-S
		SM 4500-NO2 B	KMT	1	PASI-S
2512539005	MW-7_20120630	EPA 8015B	AY1	3	PASI-S
		EPA 6010	BGA	1	PASI-S
		EPA 5030B/8260	LPM	11	PASI-S
		CA LUFT	LPM	2	PASI-S
		EPA 300.0	CMS	1	PASI-S
		EPA 353.2	CMS	2	PASI-S
		SM 4500-NO2 B	KMT	1	PASI-S
2512539006	MW-8_20120630	EPA 8015B	AY1	3	PASI-S
		EPA 6010	BGA	1	PASI-S

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

SAMPLE ANALYTE COUNT

Project: 2705191
Pace Project No.: 2512539

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 5030B/8260	LPM	11	PASI-S
		CA LUFT	LPM	2	PASI-S
		EPA 300.0	CMS	1	PASI-S
		EPA 353.2	CMS	2	PASI-S
		SM 4500-NO2 B	KMT	1	PASI-S
2512539007	**MW-9_20120630**	EPA 8015B	AY1	3	PASI-S
		EPA 6010	BGA	1	PASI-S
		EPA 5030B/8260	LPM	11	PASI-S
		CA LUFT	LPM	2	PASI-S
		EPA 300.0	CMS	1	PASI-S
		EPA 353.2	CMS	2	PASI-S
		SM 4500-NO2 B	KMT	1	PASI-S

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

HITS ONLY

Project: 2705191
Pace Project No.: 2512539

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
2512539001	**MW-10_20120630**					
EPA 6010	Iron	11300	ug/L	100	06/14/12 09:26	
EPA 5030B/8260	Benzene	0.79	ug/L	0.50	06/14/12 14:21	
EPA 5030B/8260	tert-Butyl Alcohol	17.2	ug/L	5.0	06/14/12 14:21	
EPA 5030B/8260	Methyl-tert-butyl ether	0.72	ug/L	0.50	06/14/12 14:21	
EPA 300.0	Sulfate	70100	ug/L	5000	06/21/12 14:46	
EPA 353.2	Nitrogen, Nitrate	1510	ug/L	50.0	06/25/12 13:32	
EPA 353.2	Nitrogen, NO2 plus NO3	1570	ug/L	50.0	06/25/12 13:32	
SM 4500-NO2 B	Nitrite as N	0.057	mg/L	0.010	06/13/12 12:00	
2512539002	**MW-11_20120630**					
EPA 6010	Iron	1300	ug/L	100	06/14/12 09:29	
EPA 5030B/8260	tert-Butyl Alcohol	10.4	ug/L	5.0	06/14/12 14:40	
EPA 5030B/8260	Methyl-tert-butyl ether	20.9	ug/L	0.50	06/14/12 14:40	
EPA 300.0	Sulfate	79400	ug/L	10000	06/19/12 18:28	
EPA 353.2	Nitrogen, Nitrate	88.8	ug/L	50.0	06/25/12 13:34	
EPA 353.2	Nitrogen, NO2 plus NO3	93.5	ug/L	50.0	06/25/12 13:34	
2512539003	**MW-12A_20120630**					
EPA 6010	Iron	859	ug/L	100	06/14/12 09:33	
EPA 300.0	Sulfate	118000	ug/L	10000	06/22/12 01:15	
EPA 353.2	Nitrogen, NO2 plus NO3	4260	ug/L	100	06/25/12 14:17	
EPA 353.2	Nitrogen, Nitrate	4250	ug/L	100	06/25/12 14:17	
2512539004	**MW-3_20120630**					
EPA 8015B	TPH-DRO (C10-C24) SG	87.9	ug/L	37.9	06/18/12 21:17	T4
EPA 6010	Iron	10900	ug/L	100	06/14/12 09:44	
EPA 5030B/8260	tert-Butyl Alcohol	77.2	ug/L	5.0	06/14/12 15:16	
EPA 5030B/8260	Methyl-tert-butyl ether	55.7	ug/L	0.50	06/14/12 15:16	
CA LUFT	TPH-Gasoline (C05-C12)	371	ug/L	50.0	06/14/12 15:16	
2512539005	**MW-7_20120630**					
EPA 6010	Iron	264	ug/L	100	06/14/12 09:48	
EPA 300.0	Sulfate	56900	ug/L	5000	06/21/12 15:47	
EPA 353.2	Nitrogen, NO2 plus NO3	111	ug/L	50.0	06/25/12 13:41	
SM 4500-NO2 B	Nitrite as N	0.067	mg/L	0.010	06/13/12 12:00	
2512539006	**MW-8_20120630**					
EPA 6010	Iron	21000	ug/L	100	06/14/12 09:51	
EPA 5030B/8260	tert-Butyl Alcohol	8.3	ug/L	5.0	06/14/12 15:52	
EPA 300.0	Sulfate	2570000	ug/L	200000	06/21/12 16:02	
SM 4500-NO2 B	Nitrite as N	0.048	mg/L	0.010	06/13/12 12:00	
2512539007	**MW-9_20120630**					
EPA 6010	Iron	731	ug/L	100	06/14/12 09:55	
EPA 300.0	Sulfate	42500	ug/L	10000	06/19/12 20:46	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: 2705191
Pace Project No.: 2512539

Sample: MW-10_20120630 **Lab ID: 2512539001** Collected: 06/11/12 14:10 Received: 06/12/12 09:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B CA TPH DRO SG	Analytical Method: EPA 8015B Preparation Method: EPA 3510 Modified							
TPH-DRO (C10-C24) SG	ND	ug/L	37.9	1	06/18/12 09:40	06/18/12 19:49		
Surrogates								
o-Terphenyl (S) SG	79	%	46-125	1	06/18/12 09:40	06/18/12 19:49	84-15-1	
n-Octacosane (S) SG	80	%	57-128	1	06/18/12 09:40	06/18/12 19:49	630-02-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron	**11300**	ug/L	100	1	06/13/12 10:00	06/14/12 09:26	7439-89-6	
8260 MSV	Analytical Method: EPA 5030B/8260							
Benzene	**0.79**	ug/L	0.50	1		06/14/12 14:21	71-43-2	
tert-Butyl Alcohol	**17.2**	ug/L	5.0	1		06/14/12 14:21	75-65-0	
Ethanol	ND	ug/L	250	1		06/14/12 14:21	64-17-5	
Ethylbenzene	ND	ug/L	0.50	1		06/14/12 14:21	100-41-4	
Methyl-tert-butyl ether	**0.72**	ug/L	0.50	1		06/14/12 14:21	1634-04-4	
Toluene	ND	ug/L	0.50	1		06/14/12 14:21	108-88-3	
Xylene (Total)	ND	ug/L	1.5	1		06/14/12 14:21	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	96	%	79-121	1		06/14/12 14:21	460-00-4	
Dibromofluoromethane (S)	103	%	81-119	1		06/14/12 14:21	1868-53-7	
1,2-Dichloroethane-d4 (S)	106	%	72-127	1		06/14/12 14:21	17060-07-0	
Toluene-d8 (S)	95	%	77-120	1		06/14/12 14:21	2037-26-5	
CA LUFT MSV GRO	Analytical Method: CA LUFT							
TPH-Gasoline (C05-C12)	ND	ug/L	50.0	1		06/14/12 14:21		
Surrogates								
4-Bromofluorobenzene (S)	96	%	76-121	1		06/14/12 14:21	460-00-4	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	**70100**	ug/L	5000	5		06/21/12 14:46	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	**1510**	ug/L	50.0	1		06/25/12 13:32		
Nitrogen, NO2 plus NO3	**1570**	ug/L	50.0	1		06/25/12 13:32		
SM4500NO2-B, Nitrite, unpres	Analytical Method: SM 4500-NO2 B							
Nitrite as N	**0.057**	mg/L	0.010	1		06/13/12 12:00	14797-65-0	

Sample: MW-11_20120630 **Lab ID: 2512539002** Collected: 06/11/12 13:45 Received: 06/12/12 09:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B CA TPH DRO SG	Analytical Method: EPA 8015B Preparation Method: EPA 3510 Modified							
TPH-DRO (C10-C24) SG	ND	ug/L	37.9	1	06/18/12 09:40	06/18/12 20:07		
Surrogates								
o-Terphenyl (S) SG	91	%	46-125	1	06/18/12 09:40	06/18/12 20:07	84-15-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: 2705191
Pace Project No.: 2512539

Sample: MW-11_20120630 **Lab ID: 2512539002** Collected: 06/11/12 13:45 Received: 06/12/12 09:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B CA TPH DRO SG	Analytical Method: EPA 8015B Preparation Method: EPA 3510 Modified							
Surrogates								
n-Octacosane (S) SG	93	%	57-128	1	06/18/12 09:40	06/18/12 20:07	630-02-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron	**1300**	ug/L	100	1	06/13/12 10:00	06/14/12 09:29	7439-89-6	
8260 MSV	Analytical Method: EPA 5030B/8260							
Benzene	ND	ug/L	0.50	1		06/14/12 14:40	71-43-2	
tert-Butyl Alcohol	**10.4**	ug/L	5.0	1		06/14/12 14:40	75-65-0	
Ethanol	ND	ug/L	250	1		06/14/12 14:40	64-17-5	
Ethylbenzene	ND	ug/L	0.50	1		06/14/12 14:40	100-41-4	
Methyl-tert-butyl ether	**20.9**	ug/L	0.50	1		06/14/12 14:40	1634-04-4	
Toluene	ND	ug/L	0.50	1		06/14/12 14:40	108-88-3	
Xylene (Total)	ND	ug/L	1.5	1		06/14/12 14:40	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	96	%	79-121	1		06/14/12 14:40	460-00-4	
Dibromofluoromethane (S)	102	%	81-119	1		06/14/12 14:40	1868-53-7	
1,2-Dichloroethane-d4 (S)	104	%	72-127	1		06/14/12 14:40	17060-07-0	
Toluene-d8 (S)	97	%	77-120	1		06/14/12 14:40	2037-26-5	
CA LUFT MSV GRO	Analytical Method: CA LUFT							
TPH-Gasoline (C05-C12)	ND	ug/L	50.0	1		06/14/12 14:40		
Surrogates								
4-Bromofluorobenzene (S)	96	%	76-121	1		06/14/12 14:40	460-00-4	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	**79400**	ug/L	10000	10		06/19/12 18:28	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	**88.8**	ug/L	50.0	1		06/25/12 13:34		
Nitrogen, NO2 plus NO3	**93.5**	ug/L	50.0	1		06/25/12 13:34		
SM4500NO2-B, Nitrite, unpres	Analytical Method: SM 4500-NO2 B							
Nitrite as N	ND	mg/L	0.010	1		06/13/12 12:00	14797-65-0	

Sample: MW-12A_20120630 **Lab ID: 2512539003** Collected: 06/11/12 12:10 Received: 06/12/12 09:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B CA TPH DRO SG	Analytical Method: EPA 8015B Preparation Method: EPA 3510 Modified							
TPH-DRO (C10-C24) SG	ND	ug/L	37.9	1	06/18/12 09:40	06/18/12 20:24		
Surrogates								
o-Terphenyl (S) SG	82	%	46-125	1	06/18/12 09:40	06/18/12 20:24	84-15-1	
n-Octacosane (S) SG	84	%	57-128	1	06/18/12 09:40	06/18/12 20:24	630-02-4	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: 2705191
Pace Project No.: 2512539

Sample: MW-12A_20120630 **Lab ID: 2512539003** Collected: 06/11/12 12:10 Received: 06/12/12 09:35 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	**859**	ug/L	100	1	06/13/12 10:00	06/14/12 09:33	7439-89-6	
8260 MSV	Analytical Method: EPA 5030B/8260							
Benzene	ND	ug/L	0.50	1		06/14/12 14:58	71-43-2	
tert-Butyl Alcohol	ND	ug/L	5.0	1		06/14/12 14:58	75-65-0	
Ethanol	ND	ug/L	250	1		06/14/12 14:58	64-17-5	
Ethylbenzene	ND	ug/L	0.50	1		06/14/12 14:58	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		06/14/12 14:58	1634-04-4	
Toluene	ND	ug/L	0.50	1		06/14/12 14:58	108-88-3	
Xylene (Total)	ND	ug/L	1.5	1		06/14/12 14:58	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	94	%	79-121	1		06/14/12 14:58	460-00-4	
Dibromofluoromethane (S)	122	%	81-119	1		06/14/12 14:58	1868-53-7	S3
1,2-Dichloroethane-d4 (S)	117	%	72-127	1		06/14/12 14:58	17060-07-0	
Toluene-d8 (S)	96	%	77-120	1		06/14/12 14:58	2037-26-5	
CA LUFT MSV GRO	Analytical Method: CA LUFT							
TPH-Gasoline (C05-C12)	ND	ug/L	50.0	1		06/14/12 14:58		
Surrogates								
4-Bromofluorobenzene (S)	94	%	76-121	1		06/14/12 14:58	460-00-4	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	**118000**	ug/L	10000	10		06/22/12 01:15	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	**4260**	ug/L	100	2		06/25/12 14:17		
Nitrogen, Nitrate	**4250**	ug/L	100	2		06/25/12 14:17		
SM4500NO2-B, Nitrite, unpres	Analytical Method: SM 4500-NO2 B							
Nitrite as N	ND	mg/L	0.010	1		06/13/12 12:00	14797-65-0	

Sample: MW-3_20120630 **Lab ID: 2512539004** Collected: 06/11/12 15:45 Received: 06/12/12 09:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B CA TPH DRO SG	Analytical Method: EPA 8015B Preparation Method: EPA 3510 Modified							
TPH-DRO (C10-C24) SG	**87.9**	ug/L	37.9	1	06/18/12 09:40	06/18/12 21:17		T4
Surrogates								
o-Terphenyl (S) SG	77	%	46-125	1	06/18/12 09:40	06/18/12 21:17	84-15-1	
n-Octacosane (S) SG	81	%	57-128	1	06/18/12 09:40	06/18/12 21:17	630-02-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron	**10900**	ug/L	100	1	06/13/12 10:00	06/14/12 09:44	7439-89-6	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: 2705191
Pace Project No.: 2512539

Sample: MW-3_20120630 **Lab ID: 2512539004** Collected: 06/11/12 15:45 Received: 06/12/12 09:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Benzene	ND	ug/L	0.50	1		06/14/12 15:16	71-43-2	
tert-Butyl Alcohol	77.2	ug/L	5.0	1		06/14/12 15:16	75-65-0	
Ethanol	ND	ug/L	250	1		06/14/12 15:16	64-17-5	
Ethylbenzene	ND	ug/L	0.50	1		06/14/12 15:16	100-41-4	
Methyl-tert-butyl ether	55.7	ug/L	0.50	1		06/14/12 15:16	1634-04-4	
Toluene	ND	ug/L	0.50	1		06/14/12 15:16	108-88-3	
Xylene (Total)	ND	ug/L	1.5	1		06/14/12 15:16	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	88	%	79-121	1		06/14/12 15:16	460-00-4	
Dibromofluoromethane (S)	102	%	81-119	1		06/14/12 15:16	1868-53-7	
1,2-Dichloroethane-d4 (S)	104	%	72-127	1		06/14/12 15:16	17060-07-0	
Toluene-d8 (S)	96	%	77-120	1		06/14/12 15:16	2037-26-5	
CA LUFT MSV GRO	Analytical Method: CA LUFT							
TPH-Gasoline (C05-C12)	371	ug/L	50.0	1		06/14/12 15:16		
Surrogates								
4-Bromofluorobenzene (S)	88	%	76-121	1		06/14/12 15:16	460-00-4	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	ND	ug/L	2000	2		06/21/12 15:32	14808-79-8	D3
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	ug/L	50.0	1		06/25/12 13:40		
Nitrogen, NO2 plus NO3	ND	ug/L	50.0	1		06/25/12 13:40		
SM4500NO2-B, Nitrite, unpres	Analytical Method: SM 4500-NO2 B							
Nitrite as N	ND	mg/L	0.010	1		06/13/12 12:00	14797-65-0	

Sample: MW-7_20120630 **Lab ID: 2512539005** Collected: 06/11/12 14:55 Received: 06/12/12 09:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B CA TPH DRO SG	Analytical Method: EPA 8015B Preparation Method: EPA 3510 Modified							
TPH-DRO (C10-C24) SG	ND	ug/L	37.9	1	06/18/12 09:40	06/18/12 21:34		
Surrogates								
o-Terphenyl (S) SG	89	%	46-125	1	06/18/12 09:40	06/18/12 21:34	84-15-1	
n-Octacosane (S) SG	92	%	57-128	1	06/18/12 09:40	06/18/12 21:34	630-02-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron	264	ug/L	100	1	06/13/12 10:00	06/14/12 09:48	7439-89-6	
8260 MSV	Analytical Method: EPA 5030B/8260							
Benzene	ND	ug/L	0.50	1		06/14/12 15:34	71-43-2	
tert-Butyl Alcohol	ND	ug/L	5.0	1		06/14/12 15:34	75-65-0	
Ethanol	ND	ug/L	250	1		06/14/12 15:34	64-17-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical®
www.pacelabs.com

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

ANALYTICAL RESULTS

Project: 2705191
Pace Project No.: 2512539

Sample: MW-7_20120630 **Lab ID: 2512539005** Collected: 06/11/12 14:55 Received: 06/12/12 09:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Ethylbenzene	ND	ug/L	0.50	1		06/14/12 15:34	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		06/14/12 15:34	1634-04-4	
Toluene	ND	ug/L	0.50	1		06/14/12 15:34	108-88-3	
Xylene (Total)	ND	ug/L	1.5	1		06/14/12 15:34	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	94	%	79-121	1		06/14/12 15:34	460-00-4	
Dibromofluoromethane (S)	129	%	81-119	1		06/14/12 15:34	1868-53-7	S3
1,2-Dichloroethane-d4 (S)	108	%	72-127	1		06/14/12 15:34	17060-07-0	
Toluene-d8 (S)	96	%	77-120	1		06/14/12 15:34	2037-26-5	
CA LUFT MSV GRO	Analytical Method: CA LUFT							
TPH-Gasoline (C05-C12)	ND	ug/L	50.0	1		06/14/12 15:34		
Surrogates								
4-Bromofluorobenzene (S)	94	%	76-121	1		06/14/12 15:34	460-00-4	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	**56900**	ug/L	5000	5		06/21/12 15:47	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	ug/L	50.0	1		06/25/12 13:41		
Nitrogen, NO2 plus NO3	**111**	ug/L	50.0	1		06/25/12 13:41		
SM4500NO2-B, Nitrite, unpres	Analytical Method: SM 4500-NO2 B							
Nitrite as N	**0.067**	mg/L	0.010	1		06/13/12 12:00	14797-65-0	

Sample: MW-8_20120630 **Lab ID: 2512539006** Collected: 06/11/12 14:30 Received: 06/12/12 09:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B CA TPH DRO SG	Analytical Method: EPA 8015B Preparation Method: EPA 3510 Modified							
TPH-DRO (C10-C24) SG	ND	ug/L	37.9	1	06/18/12 09:40	06/18/12 22:26		
Surrogates								
o-Terphenyl (S) SG	88	%	46-125	1	06/18/12 09:40	06/18/12 22:26	84-15-1	
n-Octacosane (S) SG	90	%	57-128	1	06/18/12 09:40	06/18/12 22:26	630-02-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron	**21000**	ug/L	100	1	06/13/12 10:00	06/14/12 09:51	7439-89-6	
8260 MSV	Analytical Method: EPA 5030B/8260							
Benzene	ND	ug/L	0.50	1		06/14/12 15:52	71-43-2	
tert-Butyl Alcohol	**8.3**	ug/L	5.0	1		06/14/12 15:52	75-65-0	
Ethanol	ND	ug/L	250	1		06/14/12 15:52	64-17-5	
Ethylbenzene	ND	ug/L	0.50	1		06/14/12 15:52	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		06/14/12 15:52	1634-04-4	
Toluene	ND	ug/L	0.50	1		06/14/12 15:52	108-88-3	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: 2705191
Pace Project No.: 2512539

Sample: MW-8_20120630 **Lab ID: 2512539006** Collected: 06/11/12 14:30 Received: 06/12/12 09:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Xylene (Total)	ND	ug/L	1.5	1		06/14/12 15:52	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	93	%	79-121	1		06/14/12 15:52	460-00-4	
Dibromofluoromethane (S)	105	%	81-119	1		06/14/12 15:52	1868-53-7	
1,2-Dichloroethane-d4 (S)	108	%	72-127	1		06/14/12 15:52	17060-07-0	
Toluene-d8 (S)	95	%	77-120	1		06/14/12 15:52	2037-26-5	
CA LUFT MSV GRO	Analytical Method: CA LUFT							
TPH-Gasoline (C05-C12)	ND	ug/L	50.0	1		06/14/12 15:52		
Surrogates								
4-Bromofluorobenzene (S)	93	%	76-121	1		06/14/12 15:52	460-00-4	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	**2570000**	ug/L	200000	200		06/21/12 16:02	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	ug/L	50.0	1		06/25/12 13:43		
Nitrogen, NO2 plus NO3	ND	ug/L	50.0	1		06/25/12 13:43		
SM4500NO2-B, Nitrite, unpres	Analytical Method: SM 4500-NO2 B							
Nitrite as N	**0.048**	mg/L	0.010	1		06/13/12 12:00	14797-65-0	

Sample: MW-9_20120630 **Lab ID: 2512539007** Collected: 06/11/12 15:20 Received: 06/12/12 09:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B CA TPH DRO SG	Analytical Method: EPA 8015B Preparation Method: EPA 3510 Modified							
TPH-DRO (C10-C24) SG	ND	ug/L	37.9	1	06/18/12 09:40	06/18/12 22:43		
Surrogates								
o-Terphenyl (S) SG	87	%	46-125	1	06/18/12 09:40	06/18/12 22:43	84-15-1	
n-Octacosane (S) SG	91	%	57-128	1	06/18/12 09:40	06/18/12 22:43	630-02-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron	**731**	ug/L	100	1	06/13/12 10:00	06/14/12 09:55	7439-89-6	
8260 MSV	Analytical Method: EPA 5030B/8260							
Benzene	ND	ug/L	0.50	1		06/14/12 16:11	71-43-2	
tert-Butyl Alcohol	ND	ug/L	5.0	1		06/14/12 16:11	75-65-0	
Ethanol	ND	ug/L	250	1		06/14/12 16:11	64-17-5	
Ethylbenzene	ND	ug/L	0.50	1		06/14/12 16:11	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		06/14/12 16:11	1634-04-4	
Toluene	ND	ug/L	0.50	1		06/14/12 16:11	108-88-3	
Xylene (Total)	ND	ug/L	1.5	1		06/14/12 16:11	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	94	%	79-121	1		06/14/12 16:11	460-00-4	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: 2705191
Pace Project No.: 2512539

Sample: MW-9_20120630 **Lab ID: 2512539007** Collected: 06/11/12 15:20 Received: 06/12/12 09:35 Matrix: Waler

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Surrogates								
Dibromofluoromethane (S)	129	%	81-119	1		06/14/12 16:11	1868-53-7	S3
1,2-Dichloroethane-d4 (S)	124	%	72-127	1		06/14/12 16:11	17060-07-0	
Toluene-d8 (S)	96	%	77-120	1		06/14/12 16:11	2037-26-5	
CA LUFT MSV GRO	Analytical Method: CA LUFT							
TPH-Gasoline (C05-C12)	ND	ug/L	50.0	1		06/14/12 16:11		
Surrogates								
4-Bromofluorobenzene (S)	94	%	76-121	1		06/14/12 16:11	460-00-4	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	**42500**	ug/L	10000	10		06/19/12 20:46	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	ug/L	50.0	1		06/25/12 13:49		
Nitrogen, NO2 plus NO3	ND	ug/L	50.0	1		06/25/12 13:49		
SM4500NO2-B, Nitrite, unpres	Analytical Method: SM 4500-NO2 B							
Nitrite as N	ND	mg/L	0.010	1		06/13/12 12:00	14797-65-0	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: 2705191
Pace Project No.: 2512539

QC Batch: MPRP/3089 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 2512539001, 2512539002, 2512539003, 2512539004, 2512539005, 2512539006, 2512539007

METHOD BLANK: 118763 Matrix: Water
Associated Lab Samples: 2512539001, 2512539002, 2512539003, 2512539004, 2512539005, 2512539006, 2512539007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron	ug/L	ND	100	06/14/12 09:01	

LABORATORY CONTROL SAMPLE: 118764

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	10000	9780	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 118765 118766

Parameter	Units	2512539003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Iron	ug/L	859	10000	10000	10500	10100	96	92	75-125	4	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: 2705191
Pace Project No.: 2512539

QC Batch: MSV/7205 Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 2512539001, 2512539002, 2512539003, 2512539004, 2512539005, 2512539006, 2512539007

METHOD BLANK: 119028 Matrix: Water
Associated Lab Samples: 2512539001, 2512539002, 2512539003, 2512539004, 2512539005, 2512539006, 2512539007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	0.50	06/14/12 14:03	
Ethanol	ug/L	ND	250	06/14/12 14:03	
Ethylbenzene	ug/L	ND	0.50	06/14/12 14:03	
Methyl-tert-butyl ether	ug/L	ND	0.50	06/14/12 14:03	
tert-Butyl Alcohol	ug/L	ND	5.0	06/14/12 14:03	
Toluene	ug/L	ND	0.50	06/14/12 14:03	
Xylene (Total)	ug/L	ND	1.5	06/14/12 14:03	
1,2-Dichloroethane-d4 (S)	%	106	72-127	06/14/12 14:03	
4-Bromofluorobenzene (S)	%	96	79-121	06/14/12 14:03	
Dibromofluoromethane (S)	%	103	81-119	06/14/12 14:03	
Toluene-d8 (S)	%	95	77-120	06/14/12 14:03	

LABORATORY CONTROL SAMPLE: 119029

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	16.9	85	66-123	
Ethanol	ug/L	800	923	115	40-160	
Ethylbenzene	ug/L	20	21.3	107	67-122	
Methyl-tert-butyl ether	ug/L	20	23.9	120	65-138	
tert-Butyl Alcohol	ug/L	100	115	115	57-153	
Toluene	ug/L	20	18.4	92	64-118	
Xylene (Total)	ug/L	60	67.8	113	68-122	
1,2-Dichloroethane-d4 (S)	%			104	72-127	
4-Bromofluorobenzene (S)	%			86	79-121	
Dibromofluoromethane (S)	%			106	81-119	
Toluene-d8 (S)	%			97	77-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 119030 119031

Parameter	Units	2512539003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Benzene	ug/L	ND	20	20	21.6	18.0	108	90	63-138	18	
Ethanol	ug/L	ND	800	800	974	1090	122	136	40-160	11	
Ethylbenzene	ug/L	ND	20	20	23.2	23.1	116	115	65-135	.5	
Methyl-tert-butyl ether	ug/L	ND	20	20	28.5	28.7	141	142	59-143	.5	
tert-Butyl Alcohol	ug/L	ND	100	100	137	155	136	154	46-156	12	
Toluene	ug/L	ND	20	20	21.5	20.1	107	100	64-128	7	
Xylene (Total)	ug/L	ND	60	60	74.0	73.6	123	123	65-133	.5	
1,2-Dichloroethane-d4 (S)	%						107	96	72-127		
4-Bromofluorobenzene (S)	%						82	89	79-121		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: 2705191
Pace Project No.: 2512539

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 119030 119031

Parameter	Units	2512539003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Dibromofluoromethane (S)	%						117	88	81-119		
Toluene-d8 (S)	%						99	94	77-120		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: 2705191
Pace Project No.: 2512539

QC Batch: MSV/7206 Analysis Method: CA LUFT
QC Batch Method: CA LUFT Analysis Description: CA LUFT MSV GRO
Associated Lab Samples: 2512539001, 2512539002, 2512539003, 2512539004, 2512539005, 2512539006, 2512539007

METHOD BLANK: 119033 Matrix: Water
Associated Lab Samples: 2512539001, 2512539002, 2512539003, 2512539004, 2512539005, 2512539006, 2512539007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-Gasoline (C05-C12)	ug/L	ND	50.0	06/14/12 13:45	
4-Bromofluorobenzene (S)	%	94	76-121	06/14/12 13:45	

LABORATORY CONTROL SAMPLE: 119034

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-Gasoline (C05-C12)	ug/L	500	400	80	57-139	
4-Bromofluorobenzene (S)	%			93	76-121	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 119035 119036

Parameter	Units	2512539003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
TPH-Gasoline (C05-C12)	ug/L	ND	500	500	448	413	86	79	40-150	8	
4-Bromofluorobenzene (S)	%						91	92	76-121		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 119749 119750

Parameter	Units	2512566004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
TPH-Gasoline (C05-C12)	ug/L	ND	500	500	386	387	74	74	40-150	.1	
4-Bromofluorobenzene (S)	%						92	93	76-121		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: 2705191
Pace Project No.: 2512539

QC Batch: OEXT/5658 Analysis Method: EPA 8015B
QC Batch Method: EPA 3510 Modified Analysis Description: 8015B CA DRO Silica Gel
Associated Lab Samples: 2512539001, 2512539002, 2512539003, 2512539004, 2512539005, 2512539006, 2512539007

METHOD BLANK: 119372 Matrix: Water
Associated Lab Samples: 2512539001, 2512539002, 2512539003, 2512539004, 2512539005, 2512539006, 2512539007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-DRO (C10-C24) SG	ug/L	ND	40.0	06/18/12 19:14	
n-Octacosane (S) SG	%	82	57-128	06/18/12 19:14	
o-Terphenyl (S) SG	%	84	46-125	06/18/12 19:14	

LABORATORY CONTROL SAMPLE: 119373

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-DRO (C10-C24) SG	ug/L	2000	1800	90	50-110	
n-Octacosane (S) SG	%			95	57-128	
o-Terphenyl (S) SG	%			95	46-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 119374 119375

Parameter	Units	2512539003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
TPH-DRO (C10-C24) SG	ug/L	ND	1900	1900	1700	1540	89	80	39-110	10	
n-Octacosane (S) SG	%						92	85	57-128		
o-Terphenyl (S) SG	%						92	83	46-125		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: 2705191
Pace Project No.: 2512539

QC Batch: WETA/2625 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 2512539001, 2512539002, 2512539003, 2512539004, 2512539005, 2512539006, 2512539007

METHOD BLANK: 119504 Matrix: Water
Associated Lab Samples: 2512539001, 2512539002, 2512539003, 2512539004, 2512539005, 2512539006, 2512539007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	ug/L	ND	1000	06/19/12 16:10	

LABORATORY CONTROL SAMPLE: 119505

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	ug/L	15000	14900	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 119506 119507

Parameter	Units	2512538002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Sulfate	ug/L	13.2 mg/L	15000	15000	29200	28100	107	99	90-110	4	

MATRIX SPIKE SAMPLE: 119508

Parameter	Units	2512539003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	ug/L	118000	150000	260000	95	90-110	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical®
www.pacelabs.com

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

QUALITY CONTROL DATA

Project: 2705191
Pace Project No.: 2512539

QC Batch: WETA/2623 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, preserved
Associated Lab Samples: 2512539001, 2512539002, 2512539003, 2512539004, 2512539005, 2512539006, 2512539007

METHOD BLANK: 119381 Matrix: Water
Associated Lab Samples: 2512539001, 2512539002, 2512539003, 2512539004, 2512539005, 2512539006, 2512539007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	ug/L	ND	50.0	06/25/12 13:28	

LABORATORY CONTROL SAMPLE: 119382

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	ug/L	1000	918	92	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 119383 119384

Parameter	Units	2512539003 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	4260	2000	2000	6310	6320	103	103	90-110	.2	

MATRIX SPIKE SAMPLE: 119385

Parameter	Units	2512555004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	ug/L	ND	1000	1060	104	90-110	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: 2705191
Pace Project No.: 2512539

QC Batch: WETA/2611 Analysis Method: SM 4500-NO2 B
QC Batch Method: SM 4500-NO2 B Analysis Description: SM4500NO2-B, Nitrite, unpres
Associated Lab Samples: 2512539001, 2512539002, 2512539003, 2512539004, 2512539005, 2512539006, 2512539007

METHOD BLANK: 118702 Matrix: Water
Associated Lab Samples: 2512539001, 2512539002, 2512539003, 2512539004, 2512539005, 2512539006, 2512539007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrite as N	mg/L	ND	0.010	06/13/12 12:00	

LABORATORY CONTROL SAMPLE: 118703

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	.05	0.047	95	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 118704 118705

Parameter	Units	2512539003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Nitrite as N	mg/L	ND	.05	.05	0.055	0.047	106	91	90-110	15	R1

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALIFIERS

Project: 2705191
Pace Project No.: 2512539

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.

PRL - Pace Reporting Limit.

RL - Reporting 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.

TNI - The NELAC Institute.

LABORATORIES

PASI-S	Pace Analytical Services - Seattle

ANALYTE QUALIFIERS

D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
R1	RPD value was outside control limits.
S3	Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
T4	Result reported for hydrocarbons within the method-specific range that do not match pattern of laboratory standard.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical®
www.pacelabs.com

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2705191
Pace Project No.: 2512539

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2512539001	MW-10_20120630	EPA 3510 Modified	OEXT/5658	EPA 8015B	GCSV/3620
2512539002	MW-11_20120630	EPA 3510 Modified	OEXT/5658	EPA 8015B	GCSV/3620
2512539003	MW-12A_20120630	EPA 3510 Modified	OEXT/5658	EPA 8015B	GCSV/3620
2512539004	MW-3_20120630	EPA 3510 Modified	OEXT/5658	EPA 8015B	GCSV/3620
2512539005	MW-7_20120630	EPA 3510 Modified	OEXT/5658	EPA 8015B	GCSV/3620
2512539006	MW-8_20120630	EPA 3510 Modified	OEXT/5658	EPA 8015B	GCSV/3620
2512539007	MW-9_20120630	EPA 3510 Modified	OEXT/5658	EPA 8015B	GCSV/3620
2512539001	MW-10_20120630	EPA 3010	MPRP/3089	EPA 6010	ICP/2875
2512539002	MW-11_20120630	EPA 3010	MPRP/3089	EPA 6010	ICP/2875
2512539003	MW-12A_20120630	EPA 3010	MPRP/3089	EPA 6010	ICP/2875
2512539004	MW-3_20120630	EPA 3010	MPRP/3089	EPA 6010	ICP/2875
2512539005	MW-7_20120630	EPA 3010	MPRP/3089	EPA 6010	ICP/2875
2512539006	MW-8_20120630	EPA 3010	MPRP/3089	EPA 6010	ICP/2875
2512539007	MW-9_20120630	EPA 3010	MPRP/3089	EPA 6010	ICP/2875
2512539001	MW-10_20120630	EPA 5030B/8260	MSV/7205		
2512539002	MW-11_20120630	EPA 5030B/8260	MSV/7205		
2512539003	MW-12A_20120630	EPA 5030B/8260	MSV/7205		
2512539004	MW-3_20120630	EPA 5030B/8260	MSV/7205		
2512539005	MW-7_20120630	EPA 5030B/8260	MSV/7205		
2512539006	MW-8_20120630	EPA 5030B/8260	MSV/7205		
2512539007	MW-9_20120630	EPA 5030B/8260	MSV/7205		
2512539001	MW-10_20120630	CA LUFT	MSV/7206		
2512539002	MW-11_20120630	CA LUFT	MSV/7206		
2512539003	MW-12A_20120630	CA LUFT	MSV/7206		
2512539004	MW-3_20120630	CA LUFT	MSV/7206		
2512539005	MW-7_20120630	CA LUFT	MSV/7206		
2512539006	MW-8_20120630	CA LUFT	MSV/7206		
2512539007	MW-9_20120630	CA LUFT	MSV/7206		
2512539001	MW-10_20120630	EPA 300.0	WETA/2625		
2512539002	MW-11_20120630	EPA 300.0	WETA/2625		
2512539003	MW-12A_20120630	EPA 300.0	WETA/2625		
2512539004	MW-3_20120630	EPA 300.0	WETA/2625		
2512539005	MW-7_20120630	EPA 300.0	WETA/2625		
2512539006	MW-8_20120630	EPA 300.0	WETA/2625		
2512539007	MW-9_20120630	EPA 300.0	WETA/2625		
2512539001	MW-10_20120630	EPA 353.2	WETA/2623		
2512539002	MW-11_20120630	EPA 353.2	WETA/2623		
2512539003	MW-12A_20120630	EPA 353.2	WETA/2623		
2512539004	MW-3_20120630	EPA 353.2	WETA/2623		
2512539005	MW-7_20120630	EPA 353.2	WETA/2623		
2512539006	MW-8_20120630	EPA 353.2	WETA/2623		
2512539007	MW-9_20120630	EPA 353.2	WETA/2623		
2512539001	MW-10_20120630	SM 4500-NO2 B	WETA/2611		
2512539002	MW-11_20120630	SM 4500-NO2 B	WETA/2611		
2512539003	MW-12A_20120630	SM 4500-NO2 B	WETA/2611		
2512539004	MW-3_20120630	SM 4500-NO2 B	WETA/2611		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2705191
Pace Project No.: 2512539

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2512539005	**MW-7_20120630**	SM 4500-NO2 B	WETA/2611		
2512539006	**MW-8_20120630**	SM 4500-NO2 B	WETA/2611		
2512539007	**MW-9_20120630**	SM 4500-NO2 B	WETA/2611		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

20120630.2705191.WG_Q_201206.BO

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 ____

2512539

2Q12 GW Event

Required Lab Information:		Required Project Information:				Required Invoice Information					
Lab Name:	Pace-Seattle	Site ID #:	2705191	Task:	WG_Q_201206	Send Invoice to:	Tara Bosch				
Address:		AnteaGrp proj#				Address:	11050 White Rock Road, Suite 110			Turn around time (days)	10
940 S. Harney Street Seattle WA 98108		Site Address	449 Hegenberger			City/State	Rancho Cordova CA 95670	Phone #:	1-800-477-7411	QC level Required: Standard	Special / Mark one
Lab PM:	Regina Ste. Mane	City	Oakland	State	CA 94621	Reimbursement project?		Non-reimbursement project?	Y / Mark one	NJ Reduced Deliverable Package?	
Phone/Fax:	P: 206-957-2433 F: 206-767-5063	AG PM Name:	Dennis Dettloff			Send EDD to	copetdata@intelligentehs.com			MA MCP Cert?	CT RCP Cert? / Mark One
Lab PM email	Regina.SteMane@pacelabs.com	Phone/Fax:	P: 1-800-477-7411 F: 916-638-8385			CC Hardcopy report to				Lab Project ID (lab use)	
Applicable Lab Quote #:		AG PM Email:	dennis.dettloff@anteagroup.com			CC Hardcopy report to					

Valid Matrix Codes — MATRIX: DRINKING WATER (DW), GROUND WATER (GW), WASTE WATER (WW), FREE PRODUCT (FP), SOIL (SO), SOLID (SL), AMBIENT AIR (AA), SOIL GAS (SG); MATRIX: WATER (W), SURFACE WATER (SW), WATER OC (WO), SLUDGE (SD), CONCRETE (CC), OTHER (OT), ANIMAL TISSUE (TS)

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: 300/Sulfate	353.2 Nitrate/N	6010/Iron Total	8015TPHD/Diesel W/Silica	8260 GC/MS GRO	8260B/MTBE/MtbeTBA	8260/Ethanol	Comments/Lab Sample I.D.
1	MW-10_20120630	WG	G	6/11/12	1410	11	N	X	X	X	X					X	X	X	X	X	X	X	
2	MW-11_20120630	WG	G	6/11/12	1345	11	N	X	X	X	X					X	X	X	X	X	X	X	
3	~~MW-12_20120630~~	WG														X	X	X	X	X	X	X	
4	MW-12A_20120630	WG	G	6/11/12	1210	16	N	X	X	X	X					X	X	X	X	X	X	X	
5	~~MW-13_20120630~~	WG														X	X	X	X	X	X	X	
6	~~MW-14_20120630~~	WG														X	X	X	X	X	X	X	
7	~~MW-15_20120630~~	WG														X	X	X	X	X	X	X	
8	~~MW-16_20120630~~	WG														X	X	X	X	X	X	X	
9	~~MW-17_20120630~~	WG														X	X	X	X	X	X	X	
10	~~MW-6_20120630~~	WG														X	X	X	X	X	X	X	
11	~~FD1_20120630~~	W																		X	X	X	
12	MW-3_20120630	WG	G	6/11/12	1545	11	N	X	X	X	X					X	X	X	X	X	X	X	
13	MW-7_20120630	WG	G	6/11/12	1455	11	N	X	X	X	X					X	X	X	X	X	X	X	
14	MW-8_20120630	WG	G	6/11/12	1430	11	N	X	X	X	X					X	X	X	X	X	X	X	
15	MW-9_20120630	WG	G	6/11/12	1520	11	N	X	X	X	X					X	X	X	X	X	X	X	

Additional Comments/Special Instructions:

Global ID: T0600101476

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
[signature]	6/11/12	1730	[signature] (sample cust.)	6/11/12	1730
			[signature]	6/12/12	0935

Sample Receipt Conditions

Temp in °C	Samples on Ice?	Sample intact?	Trip Blank?
4.9	Y/N	Y/N	Y/N
4.4	Y/N	Y/N	Y/N
4.3	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: Gregory Roberts

SIGNATURE of SAMPLER: [signature]

DATE Signed: 6/11/12 Time: 1615

Final 11/13/06. AMTait

Sample Container Count

CLIENT: Cop Antea

2512539

COC PAGE 1 of 1

COC ID# _____

Trip Blank(s) Provided?
Y / (N)

Sample Line Item	VG9H	AG1H	AG1U	BP1U	BP2U	BP3U	BP3N	BP3S	WGKU	WGFU	WG2U	DG9M	DG9B	VG9W	VSG				Comments
1	6		2		↓		1 1.0	1 1.0											
2	↓		↓				↓	↓											
3	10		3																
4	6		2																
5	↓		↓																
6																			
7	↓		↓		↓		↓	↓											
8																			
9																			
10																			
11																			
12																			

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

Sample Condition Upon Receipt

Pace Analytical

Client Name: Antea Cop Project # 2512539

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

Tracking #: 8738 8211 6115; W04; 6126

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 101221062 or 220099 Type of Ice: Wet Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature 4.9, 4.4, 4.3 Biological Tissue is Frozen: Yes No

Temp should be above freezing ≤ 6°C

Date and Initials of person examining contents: 6/12/17 bg

		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.
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: WT		
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	
Exception: VOA, coliform, TOC, O&G	☑Yes ☐No ☐N/A	Initial when completed: bg 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 Creation Date:		

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: Karen Jang **Date:** 06/12/17

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

Is the Data Set Valid? (circle)	Preservation Temperature (if Known): 5.4 °C
(Yes) / No	

Antea™Group Laboratory Data Validation Sheet

Project/Client: 76 ~~Station~~ Station No. 5191 / COP-ELT
Project #: I427051911
Date of Validation: 7/16/12 **Date of Analysis:** 6/13 to 6/25
Sample Date: 6/12/12 **Completed By:** ETW
Signature:

Circle or Highlight (Yes) / No (below)

Analytical Lab Used and Report # (if any): PACE#: 2512555

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:

5. Lab blanks were performed but was detected in the Nitrite as N Sample. (PB)
9. MS/MSD outside control limits Nitrite as N (M0 & M1)
other Qualifiers
1n, 2n, D3, P4, S5, T4

Pace Analytical®
www.pacelabs.com

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

June 27, 2012

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

RE: Project: 2705191
Pace Project No.: 2512555

Dear Dennis Dettloff:
Enclosed are the analytical results for sample(s) received by the laboratory on June 13, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Samples MW-14 and MW-17 were received neutral at pH of 7 for Nitrate/Nitrite and total iron. H2SO4 was added for Nitrate/Nitrite and HNO3 was added for total iron to these two samples upon arrival. Client was notified on 06/13/2012.

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

Sincerely,

Karen Jang

karen.jang@pacelabs.com
Project Manager

Enclosures

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

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

CERTIFICATIONS

Project: 2705191
Pace Project No.: 2512555

Washington Certification IDs
940 South Harney Street, Seattle, WA 98108
Alaska CS Certification #: UST-025
Arizona Certification #: AZ0770
California Certification #: 01153CA
Florida/NELAP Certification #: E87617
Oregon Certification #: WA200007
Washington Certification #: C555

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical®
www.pacelabs.com

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

SAMPLE ANALYTE COUNT

Project: 2705191
Pace Project No.: 2512555

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
2512555001	MW-12_20120630	EPA 8015B	AY1	3	PASI-S
		EPA 6010	BGA	1	PASI-S
		EPA 5030B/8260	LPM	11	PASI-S
		CA LUFT	LPM	2	PASI-S
		EPA 300.0	CMS	1	PASI-S
		EPA 353.2	CMS	2	PASI-S
		SM 4500-NO2 B	KMT	1	PASI-S
2512555002	MW-13_20120630	EPA 8015B	AY1	3	PASI-S
		EPA 6010	BGA	1	PASI-S
		EPA 5030B/8260	LPM	11	PASI-S
		CA LUFT	LPM	2	PASI-S
		EPA 300.0	CMS	1	PASI-S
		EPA 353.2	CMS	2	PASI-S
		SM 4500-NO2 B	RAB	1	PASI-S
2512555003	MW-14_20120630	EPA 8015B	AY1	3	PASI-S
		EPA 6010	BGA	1	PASI-S
		EPA 5030B/8260	LPM	11	PASI-S
		CA LUFT	LPM	2	PASI-S
		EPA 300.0	CMS	1	PASI-S
		EPA 353.2	CMS	2	PASI-S
		SM 4500-NO2 B	KMT	1	PASI-S
2512555004	MW-15_20120630	EPA 8015B	AY1	3	PASI-S
		EPA 6010	BGA	1	PASI-S
		EPA 5030B/8260	LPM	11	PASI-S
		CA LUFT	LPM	2	PASI-S
		EPA 300.0	CMS	1	PASI-S
		EPA 353.2	CMS	2	PASI-S
		SM 4500-NO2 B	KMT	1	PASI-S
2512555005	MW-16_20120630	EPA 8015B	AY1	3	PASI-S
		EPA 6010	BGA	1	PASI-S
		EPA 5030B/8260	LPM	11	PASI-S
		CA LUFT	LPM	2	PASI-S
		EPA 300.0	CMS	1	PASI-S
		EPA 353.2	CMS	2	PASI-S
		SM 4500-NO2 B	KMT	1	PASI-S
2512555006	MW-17_20120630	EPA 8015B	AY1	3	PASI-S
		EPA 6010	BGA	1	PASI-S

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(208)787-5080

SAMPLE ANALYTE COUNT

Project: 2705191
Pace Project No.: 2512555

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 5030B/8260	LPM	11	PASI-S
		CA LUFT	LPM	2	PASI-S
		EPA 300.0	CMS	1	PASI-S
		EPA 353.2	CMS	2	PASI-S
		SM 4500-NO2 B	RAB	1	PASI-S
2512555007	**MW-6_20120630**	EPA 8015B	AY1	3	PASI-S
		EPA 6010	BGA	1	PASI-S
		EPA 5030B/8260	LPM	11	PASI-S
		CA LUFT	LPM	2	PASI-S
		EPA 300.0	CMS	1	PASI-S
		EPA 353.2	CMS	2	PASI-S
		SM 4500-NO2 B	KMT	1	PASI-S
2512555008	**FD1_20120630**	EPA 5030B/8260	LPM	11	PASI-S
		CA LUFT	LPM	2	PASI-S

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical®
www.pacelabs.com

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

HITS ONLY

Project: 2705191
Pace Project No.: 2512555

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
2512555001	**MW-12_20120630**					
EPA 8015B	TPH-DRO (C10-C24) SG	957	ug/L	37.9	06/18/12 23:01	T4
EPA 6010	Iron	497	ug/L	400	06/19/12 10:44	D3
EPA 5030B/8260	Benzene	178	ug/L	0.50	06/14/12 19:19	
EPA 5030B/8260	tert-Butyl Alcohol	448	ug/L	5.0	06/14/12 19:19	
EPA 5030B/8260	Ethylbenzene	24.1	ug/L	0.50	06/14/12 19:19	
EPA 5030B/8260	Methyl-tert-butyl ether	993	ug/L	5.0	06/18/12 15:30	
EPA 5030B/8260	Toluene	17.0	ug/L	0.50	06/14/12 19:19	
EPA 5030B/8260	Xylene (Total)	68.8	ug/L	1.5	06/14/12 19:19	
CA LUFT	TPH-Gasoline (C05-C12)	1030	ug/L	50.0	06/14/12 19:19	
EPA 300.0	Sulfate	2130000	ug/L	200000	06/21/12 17:07	
2512555002	**MW-13_20120630**					
EPA 6010	Iron	3760	ug/L	1000	06/19/12 10:55	D3
EPA 5030B/8260	tert-Butyl Alcohol	81.7	ug/L	5.0	06/14/12 19:01	
EPA 5030B/8260	Methyl-tert-butyl ether	220	ug/L	2.5	06/14/12 18:42	
CA LUFT	TPH-Gasoline (C05-C12)	118	ug/L	50.0	06/14/12 19:01	2n
EPA 300.0	Sulfate	131000	ug/L	20000	06/21/12 17:22	
SM 4500-NO2 B	Nitrite as N	0.019	mg/L	0.010	06/14/12 09:15	
2512555003	**MW-14_20120630**					
EPA 8015B	TPH-DRO (C10-C24) SG	4580	ug/L	37.7	06/19/12 18:12	
EPA 6010	Iron	1150	ug/L	500	06/19/12 10:58	D3
EPA 5030B/8260	Benzene	1200	ug/L	5.0	06/18/12 16:50	
EPA 5030B/8260	tert-Butyl Alcohol	23.3	ug/L	5.0	06/14/12 19:38	
EPA 5030B/8260	Ethylbenzene	1580	ug/L	5.0	06/18/12 16:50	
EPA 5030B/8260	Methyl-tert-butyl ether	1.4	ug/L	0.50	06/14/12 19:38	
EPA 5030B/8260	Toluene	14.0	ug/L	0.50	06/14/12 19:38	
EPA 5030B/8260	Xylene (Total)	3010	ug/L	15.0	06/18/12 16:50	
CA LUFT	TPH-Gasoline (C05-C12)	15700	ug/L	500	06/18/12 16:50	
EPA 300.0	Sulfate	439000	ug/L	50000	06/21/12 17:37	
2512555004	**MW-15_20120630**					
EPA 6010	Iron	2920	ug/L	500	06/19/12 11:02	D3
EPA 5030B/8260	tert-Butyl Alcohol	90.9	ug/L	5.0	06/14/12 16:29	
EPA 5030B/8260	Methyl-tert-butyl ether	114	ug/L	0.50	06/14/12 16:29	
CA LUFT	TPH-Gasoline (C05-C12)	74.3	ug/L	50.0	06/14/12 16:29	2n
EPA 300.0	Sulfate	42100	ug/L	5000	06/21/12 17:53	
2512555005	**MW-16_20120630**					
EPA 8015B	TPH-DRO (C10-C24) SG	48.1	ug/L	37.9	06/19/12 01:35	T4
EPA 6010	Iron	1730	ug/L	500	06/19/12 11:06	D3
EPA 5030B/8260	tert-Butyl Alcohol	374	ug/L	5.0	06/20/12 10:42	
EPA 5030B/8260	Methyl-tert-butyl ether	1100	ug/L	5.0	06/18/12 15:50	
CA LUFT	TPH-Gasoline (C05-C12)	430	ug/L	50.0	06/20/12 10:42	2n
EPA 300.0	Sulfate	19900	ug/L	2000	06/21/12 18:08	
2512555006	**MW-17_20120630**					
EPA 8015B	TPH-DRO (C10-C24) SG	1090	ug/L	37.9	06/19/12 01:53	T4
EPA 6010	Iron	44300	ug/L	500	06/19/12 11:21	D3

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

HITS ONLY

Project: 2705191
Pace Project No.: 2512555

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
2512555006	**MW-17_20120630**					
EPA 5030B/8260	Benzene	2340	ug/L	12.5	06/18/12 17:10	
EPA 5030B/8260	tert-Butyl Alcohol	411	ug/L	25.0	06/18/12 19:20	
EPA 5030B/8260	Ethylbenzene	153	ug/L	2.5	06/18/12 19:20	
EPA 5030B/8260	Toluene	123	ug/L	2.5	06/18/12 19:20	
EPA 5030B/8260	Xylene (Total)	610	ug/L	7.5	06/18/12 19:20	
CA LUFT	TPH-Gasoline (C05-C12)	4950	ug/L	250	06/14/12 20:16	
EPA 300.0	Sulfate	2520000	ug/L	200000	06/21/12 18:23	
SM 4500-NO2 B	Nitrite as N	0.039	mg/L	0.010	06/14/12 09:15	1n
2512555007	**MW-6_20120630**					
EPA 8015B	TPH-DRO (C10-C24) SG	47100	ug/L	379	06/19/12 00:44	T4
EPA 6010	Iron	1240	ug/L	500	06/19/12 11:24	D3
EPA 5030B/8260	Benzene	773	ug/L	5.0	06/18/12 16:10	
EPA 5030B/8260	tert-Butyl Alcohol	123	ug/L	5.0	06/14/12 20:34	
EPA 5030B/8260	Ethylbenzene	840	ug/L	5.0	06/18/12 16:10	
EPA 5030B/8260	Methyl-tert-butyl ether	11.4	ug/L	0.50	06/14/12 20:34	
EPA 5030B/8260	Toluene	60.8	ug/L	0.50	06/14/12 20:34	
EPA 5030B/8260	Xylene (Total)	3110	ug/L	15.0	06/18/12 16:10	
CA LUFT	TPH-Gasoline (C05-C12)	33400	ug/L	500	06/19/12 07:24	
EPA 300.0	Sulfate	1110	ug/L	1000	06/21/12 18:38	
2512555008	**FD1_20120630**					
EPA 5030B/8260	Benzene	818	ug/L	5.0	06/18/12 16:30	
EPA 5030B/8260	tert-Butyl Alcohol	134	ug/L	5.0	06/14/12 20:53	
EPA 5030B/8260	Ethylbenzene	862	ug/L	5.0	06/18/12 16:30	
EPA 5030B/8260	Methyl-tert-butyl ether	12.4	ug/L	0.50	06/14/12 20:53	
EPA 5030B/8260	Toluene	80.5	ug/L	0.50	06/14/12 20:53	
EPA 5030B/8260	Xylene (Total)	3130	ug/L	15.0	06/18/12 16:30	
CA LUFT	TPH-Gasoline (C05-C12)	27400	ug/L	500	06/19/12 07:44	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical®
www.pacelabs.com

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

ANALYTICAL RESULTS

Project: 2705191
Pace Project No.: 2512555

Sample: MW-12_20120630 **Lab ID: 2512555001** Collected: 06/12/12 10:40 Received: 06/13/12 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B CA TPH DRO SG	Analytical Method: EPA 8015B Preparation Method: EPA 3510 Modified							
TPH-DRO (C10-C24) SG	**957**	ug/L	37.9	1	06/18/12 09:40	06/18/12 23:01		T4
Surrogates								
o-Terphenyl (S) SG	87	%	46-125	1	06/18/12 09:40	06/18/12 23:01	84-15-1	
n-Octacosane (S) SG	90	%	57-128	1	06/18/12 09:40	06/18/12 23:01	630-02-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron	**497**	ug/L	400	4	06/14/12 11:25	06/19/12 10:44	7439-89-6	D3
8260 MSV	Analytical Method: EPA 5030B/8260							
Benzene	**178**	ug/L	0.50	1		06/14/12 19:19	71-43-2	
tert-Butyl Alcohol	**448**	ug/L	5.0	1		06/14/12 19:19	75-65-0	
Ethanol	ND	ug/L	250	1		06/14/12 19:19	64-17-5	
Ethylbenzene	**24.1**	ug/L	0.50	1		06/14/12 19:19	100-41-4	
Methyl-tert-butyl ether	**993**	ug/L	5.0	10		06/18/12 15:30	1634-04-4	
Toluene	**17.0**	ug/L	0.50	1		06/14/12 19:19	108-88-3	
Xylene (Total)	**68.8**	ug/L	1.5	1		06/14/12 19:19	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	87	%	79-121	1		06/14/12 19:19	460-00-4	
Dibromofluoromethane (S)	113	%	81-119	1		06/14/12 19:19	1868-53-7	
1,2-Dichloroethane-d4 (S)	111	%	72-127	1		06/14/12 19:19	17060-07-0	
Toluene-d8 (S)	94	%	77-120	1		06/14/12 19:19	2037-26-5	
CA LUFT MSV GRO	Analytical Method: CA LUFT							
TPH-Gasoline (C05-C12)	**1030**	ug/L	50.0	1		06/14/12 19:19		
Surrogates								
4-Bromofluorobenzene (S)	87	%	76-121	1		06/14/12 19:19	460-00-4	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	**2130000**	ug/L	200000	200		06/21/12 17:07	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	ug/L	50.0	1		06/25/12 13:50		
Nitrogen, NO2 plus NO3	ND	ug/L	50.0	1		06/25/12 13:50		
SM4500NO2-B, Nitrite, unpres	Analytical Method: SM 4500-NO2 B							
Nitrite as N	ND	mg/L	0.010	1		06/13/12 16:54	14797-65-0	

Sample: MW-13_20120630 **Lab ID: 2512555002** Collected: 06/12/12 09:35 Received: 06/13/12 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B CA TPH DRO SG	Analytical Method: EPA 8015B Preparation Method: EPA 3510 Modified							
TPH-DRO (C10-C24) SG	ND	ug/L	37.9	1	06/18/12 09:40	06/18/12 23:18		
Surrogates								
o-Terphenyl (S) SG	77	%	46-125	1	06/18/12 09:40	06/18/12 23:18	84-15-1	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: 2705191
Pace Project No.: 2512555

Sample: MW-13_20120630 **Lab ID: 2512555002** Collected: 06/12/12 09:35 Received: 06/13/12 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B CA TPH DRO SG	Analytical Method: EPA 8015B Preparation Method: EPA 3510 Modified							
Surrogates								
n-Octacosane (S) SG	80	%	57-128	1	06/18/12 09:40	06/18/12 23:18	630-02-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron	**3760**	ug/L	1000	10	06/14/12 11:25	06/19/12 10:55	7439-89-6	D3
8260 MSV	Analytical Method: EPA 5030B/8260							
Benzene	ND	ug/L	0.50	1		06/14/12 19:01	71-43-2	
tert-Butyl Alcohol	**81.7**	ug/L	5.0	1		06/14/12 19:01	75-65-0	
Ethanol	ND	ug/L	250	1		06/14/12 19:01	64-17-5	
Ethylbenzene	ND	ug/L	0.50	1		06/14/12 19:01	100-41-4	
Methyl-tert-butyl ether	**220**	ug/L	2.5	5		06/14/12 18:42	1634-04-4	
Toluene	ND	ug/L	0.50	1		06/14/12 19:01	108-88-3	
Xylene (Total)	ND	ug/L	1.5	1		06/14/12 19:01	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	94	%	79-121	1		06/14/12 19:01	460-00-4	
Dibromofluoromethane (S)	101	%	81-119	1		06/14/12 19:01	1868-53-7	
1,2-Dichloroethane-d4 (S)	105	%	72-127	1		06/14/12 19:01	17060-07-0	
Toluene-d8 (S)	95	%	77-120	1		06/14/12 19:01	2037-26-5	
CA LUFT MSV GRO	Analytical Method: CA LUFT							
TPH-Gasoline (C05-C12)	**118**	ug/L	50.0	1		06/14/12 19:01		2n
Surrogates								
4-Bromofluorobenzene (S)	94	%	76-121	1		06/14/12 19:01	460-00-4	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	**131000**	ug/L	20000	20		06/21/12 17:22	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	ug/L	50.0	1		06/25/12 13:52		
Nitrogen, NO2 plus NO3	ND	ug/L	50.0	1		06/25/12 13:52		
SM4500NO2-B, Nitrite, unpres	Analytical Method: SM 4500-NO2 B							
Nitrite as N	**0.019**	mg/L	0.010	1		06/14/12 09:15	14797-65-0	

Sample: MW-14_20120630 **Lab ID: 2512555003** Collected: 06/12/12 11:25 Received: 06/13/12 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B CA TPH DRO SG	Analytical Method: EPA 8015B Preparation Method: EPA 3510 Modified							
TPH-DRO (C10-C24) SG	**4580**	ug/L	37.7	1	06/19/12 13:30	06/19/12 18:12		
Surrogates								
o-Terphenyl (S) SG	96	%	46-125	1	06/19/12 13:30	06/19/12 18:12	84-15-1	
n-Octacosane (S) SG	101	%	57-128	1	06/19/12 13:30	06/19/12 18:12	630-02-4	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: 2705191
Pace Project No.: 2512555

Sample: MW-14_20120630 **Lab ID: 2512555003** Collected: 06/12/12 11:25 Received: 06/13/12 10:00 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	**1150**	ug/L	500	5	06/14/12 11:25	06/19/12 10:58	7439-89-6	D3
8260 MSV	Analytical Method: EPA 5030B/8260							
Benzene	**1200**	ug/L	5.0	10		06/18/12 16:50	71-43-2	
tert-Butyl Alcohol	**23.3**	ug/L	5.0	1		06/14/12 19:38	75-65-0	
Ethanol	ND	ug/L	250	1		06/14/12 19:38	64-17-5	
Ethylbenzene	**1580**	ug/L	5.0	10		06/18/12 16:50	100-41-4	
Methyl-tert-butyl ether	**1.4**	ug/L	0.50	1		06/14/12 19:38	1634-04-4	
Toluene	**14.0**	ug/L	0.50	1		06/14/12 19:38	108-88-3	
Xylene (Total)	**3010**	ug/L	15.0	10		06/18/12 16:50	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	75	%	79-121	1		06/14/12 19:38	460-00-4	S5
Dibromofluoromethane (S)	115	%	81-119	1		06/14/12 19:38	1868-53-7	
1,2-Dichloroethane-d4 (S)	144	%	72-127	1		06/14/12 19:38	17060-07-0	S5
Toluene-d8 (S)	89	%	77-120	1		06/14/12 19:38	2037-26-5	
CA LUFT MSV GRO	Analytical Method: CA LUFT							
TPH-Gasoline (C05-C12)	**15700**	ug/L	500	10		06/18/12 16:50		
Surrogates								
4-Bromofluorobenzene (S)	91	%	76-121	10		06/18/12 16:50	460-00-4	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	**439000**	ug/L	50000	50		06/21/12 17:37	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	ug/L	50.0	1		06/25/12 13:53		
Nitrogen, NO2 plus NO3	ND	ug/L	50.0	1		06/25/12 13:53		P4
SM4500NO2-B, Nitrite, unpres	Analytical Method: SM 4500-NO2 B							
Nitrite as N	ND	mg/L	0.010	1		06/13/12 16:54	14797-65-0	

Sample: MW-15_20120630 **Lab ID: 2512555004** Collected: 06/12/12 09:55 Received: 06/13/12 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B CA TPH DRO SG	Analytical Method: EPA 8015B Preparation Method: EPA 3510 Modified							
TPH-DRO (C10-C24) SG	ND	ug/L	37.9	1	06/18/12 09:40	06/18/12 23:52		
Surrogates								
o-Terphenyl (S) SG	82	%	46-125	1	06/18/12 09:40	06/18/12 23:52	84-15-1	
n-Octacosane (S) SG	84	%	57-128	1	06/18/12 09:40	06/18/12 23:52	630-02-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron	**2920**	ug/L	500	5	06/14/12 11:25	06/19/12 11:02	7439-89-6	D3

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical®
www.pacelabs.com

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

ANALYTICAL RESULTS

Project: 2705191
Pace Project No.: 2512555

Sample: MW-15_20120630 **Lab ID: 2512555004** Collected: 06/12/12 09:55 Received: 06/13/12 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Benzene	ND	ug/L	0.50	1		06/14/12 16:29	71-43-2	
tert-Butyl Alcohol	**90.9**	ug/L	5.0	1		06/14/12 16:29	75-65-0	
Ethanol	ND	ug/L	250	1		06/14/12 16:29	64-17-5	
Ethylbenzene	ND	ug/L	0.50	1		06/14/12 16:29	100-41-4	
Methyl-tert-butyl ether	**114**	ug/L	0.50	1		06/14/12 16:29	1634-04-4	
Toluene	ND	ug/L	0.50	1		06/14/12 16:29	108-88-3	
Xylene (Total)	ND	ug/L	1.5	1		06/14/12 16:29	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	93	%	79-121	1		06/14/12 16:29	460-00-4	
Dibromofluoromethane (S)	95	%	81-119	1		06/14/12 16:29	1868-53-7	
1,2-Dichloroethane-d4 (S)	104	%	72-127	1		06/14/12 16:29	17060-07-0	
Toluene-d8 (S)	95	%	77-120	1		06/14/12 16:29	2037-26-5	
CA LUFT MSV GRO	Analytical Method: CA LUFT							
TPH-Gasoline (C05-C12)	**74.3**	ug/L	50.0	1		06/14/12 16:29		2n
Surrogates								
4-Bromofluorobenzene (S)	93	%	76-121	1		06/14/12 16:29	460-00-4	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	**42100**	ug/L	5000	5		06/21/12 17:53	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	ug/L	50.0	1		06/25/12 13:55		
Nitrogen, NO2 plus NO3	ND	ug/L	50.0	1		06/25/12 13:55		
SM4500NO2-B, Nitrite, unpres	Analytical Method: SM 4500-NO2 B							
Nitrite as N	ND	mg/L	0.010	1		06/13/12 16:54	14797-65-0	

Sample: MW-16_20120630 **Lab ID: 2512555005** Collected: 06/12/12 10:20 Received: 06/13/12 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B CA TPH DRO SG	Analytical Method: EPA 8015B Preparation Method: EPA 3510 Modified							
TPH-DRO (C10-C24) SG	**48.1**	ug/L	37.9	1	06/18/12 09:40	06/19/12 01:35		T4
Surrogates								
o-Terphenyl (S) SG	81	%	46-125	1	06/18/12 09:40	06/19/12 01:35	84-15-1	
n-Octacosane (S) SG	82	%	57-128	1	06/18/12 09:40	06/19/12 01:35	630-02-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron	**1730**	ug/L	500	5	06/14/12 11:25	06/19/12 11:06	7439-89-6	D3
8260 MSV	Analytical Method: EPA 5030B/8260							
Benzene	ND	ug/L	0.50	1		06/20/12 10:42	71-43-2	
tert-Butyl Alcohol	**374**	ug/L	5.0	1		06/20/12 10:42	75-65-0	
Ethanol	ND	ug/L	250	1		06/20/12 10:42	64-17-5	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: 2705191
Pace Project No.: 2512555

Sample: MW-16_20120630 **Lab ID: 2512555005** Collected: 06/12/12 10:20 Received: 06/13/12 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Ethylbenzene	ND	ug/L	0.50	1		06/20/12 10:42	100-41-4	
Methyl-tert-butyl ether	**1100**	ug/L	5.0	10		06/18/12 15:50	1634-04-4	
Toluene	ND	ug/L	0.50	1		06/20/12 10:42	108-88-3	
Xylene (Total)	ND	ug/L	1.5	1		06/20/12 10:42	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	94	%	79-121	1		06/20/12 10:42	460-00-4	
Dibromofluoromethane (S)	99	%	81-119	1		06/20/12 10:42	1868-53-7	
1,2-Dichloroethane-d4 (S)	96	%	72-127	1		06/20/12 10:42	17060-07-0	
Toluene-d8 (S)	96	%	77-120	1		06/20/12 10:42	2037-26-5	
CA LUFT MSV GRO	Analytical Method: CA LUFT							
TPH-Gasoline (C05-C12)	**430**	ug/L	50.0	1		06/20/12 10:42		2n
Surrogates								
4-Bromofluorobenzene (S)	94	%	76-121	1		06/20/12 10:42	460-00-4	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	**19900**	ug/L	2000	2		06/21/12 18:08	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	ug/L	50.0	1		06/25/12 13:58		
Nitrogen, NO2 plus NO3	ND	ug/L	50.0	1		06/25/12 13:58		
SM4500NO2-B, Nitrite, unpres	Analytical Method: SM 4500-NO2 B							
Nitrite as N	ND	mg/L	0.010	1		06/13/12 16:54	14797-65-0	

Sample: MW-17_20120630 **Lab ID: 2512555006** Collected: 06/12/12 11:40 Received: 06/13/12 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B CA TPH DRO SG	Analytical Method: EPA 8015B Preparation Method: EPA 3510 Modified							
TPH-DRO (C10-C24) SG	**1090**	ug/L	37.9	1	06/18/12 09:40	06/19/12 01:53		T4
Surrogates								
o-Terphenyl (S) SG	88	%	46-125	1	06/18/12 09:40	06/19/12 01:53	84-15-1	
n-Octacosane (S) SG	90	%	57-128	1	06/18/12 09:40	06/19/12 01:53	630-02-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron	**44300**	ug/L	500	5	06/14/12 11:25	06/19/12 11:21	7439-89-6	D3
8260 MSV	Analytical Method: EPA 5030B/8260							
Benzene	**2340**	ug/L	12.5	25		06/18/12 17:10	71-43-2	
tert-Butyl Alcohol	**411**	ug/L	25.0	5		06/18/12 19:20	75-65-0	
Ethanol	ND	ug/L	1250	5		06/18/12 19:20	64-17-5	
Ethylbenzene	**153**	ug/L	2.5	5		06/18/12 19:20	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	2.5	5		06/18/12 19:20	1634-04-4	
Toluene	**123**	ug/L	2.5	5		06/18/12 19:20	108-88-3	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical®
www.pacelabs.com

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

ANALYTICAL RESULTS

Project: 2705191
Pace Project No.: 2512555

Sample: MW-17_20120630 **Lab ID: 2512555006** Collected: 06/12/12 11:40 Received: 06/13/12 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Xylene (Total)	**610**	ug/L	7.5	5		06/18/12 19:20	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	92	%	79-121	5		06/18/12 19:20	460-00-4	
Dibromofluoromethane (S)	104	%	81-119	5		06/18/12 19:20	1868-53-7	
1,2-Dichloroethane-d4 (S)	104	%	72-127	5		06/18/12 19:20	17060-07-0	
Toluene-d8 (S)	93	%	77-120	5		06/18/12 19:20	2037-26-5	
CA LUFT MSV GRO	Analytical Method: CA LUFT							
TPH-Gasoline (C05-C12)	**4950**	ug/L	250	5		06/14/12 20:16		
Surrogates								
4-Bromofluorobenzene (S)	89	%	76-121	5		06/14/12 20:16	460-00-4	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	**2520000**	ug/L	200000	200		06/21/12 18:23	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	ug/L	50.0	1		06/25/12 13:59		
Nitrogen, NO2 plus NO3	ND	ug/L	50.0	1		06/25/12 13:59		
SM4500NO2-B, Nitrite, unpres	Analytical Method: SM 4500-NO2 B							
Nitrite as N	**0.039**	mg/L	0.010	1		06/14/12 09:15	14797-65-0	1n

Sample: MW-6_20120630 **Lab ID: 2512555007** Collected: 06/12/12 11:00 Received: 06/13/12 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B CA TPH DRO SG	Analytical Method: EPA 8015B Preparation Method: EPA 3510 Modified							
TPH-DRO (C10-C24) SG	**47100**	ug/L	379	10	06/18/12 09:40	06/19/12 00:44		T4
Surrogates								
o-Terphenyl (S) SG	77	%	46-125	10	06/18/12 09:40	06/19/12 00:44	84-15-1	
n-Octacosane (S) SG	81	%	57-128	10	06/18/12 09:40	06/19/12 00:44	630-02-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron	**1240**	ug/L	500	5	06/14/12 11:25	06/19/12 11:24	7439-89-6	D3
8260 MSV	Analytical Method: EPA 5030B/8260							
Benzene	**773**	ug/L	5.0	10		06/18/12 16:10	71-43-2	
tert-Butyl Alcohol	**123**	ug/L	5.0	1		06/14/12 20:34	75-65-0	
Ethanol	ND	ug/L	250	1		06/14/12 20:34	64-17-5	
Ethylbenzene	**840**	ug/L	5.0	10		06/18/12 16:10	100-41-4	
Methyl-tert-butyl ether	**11.4**	ug/L	0.50	1		06/14/12 20:34	1634-04-4	
Toluene	**60.8**	ug/L	0.50	1		06/14/12 20:34	108-88-3	
Xylene (Total)	**3110**	ug/L	15.0	10		06/18/12 16:10	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	88	%	79-121	1		06/14/12 20:34	460-00-4	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: 2705191
Pace Project No.: 2512555

Sample: MW-6_20120630 **Lab ID: 2512555007** Collected: 06/12/12 11:00 Received: 06/13/12 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Surrogates								
Dibromofluoromethane (S)	105	%	81-119	1		06/14/12 20:34	1868-53-7	
1,2-Dichloroethane-d4 (S)	100	%	72-127	1		06/14/12 20:34	17060-07-0	
Toluene-d8 (S)	92	%	77-120	1		06/14/12 20:34	2037-26-5	
CA LUFT MSV GRO	Analytical Method: CA LUFT							
TPH-Gasoline (C05-C12)	**33400**	ug/L	500	10		06/19/12 07:24		
Surrogates								
4-Bromofluorobenzene (S)	85	%	76-121	10		06/19/12 07:24	460-00-4	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	**1110**	ug/L	1000	1		06/21/12 18:38	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	ug/L	50.0	1		06/25/12 14:01		
Nitrogen, NO2 plus NO3	ND	ug/L	50.0	1		06/25/12 14:01		P4
SM4500NO2-B, Nitrite, unpres	Analytical Method: SM 4500-NO2 B							
Nitrite as N	ND	mg/L	0.010	1		06/13/12 16:54	14797-65-0	

Sample: FD1_20120630 **Lab ID: 2512555008** Collected: 06/12/12 11:05 Received: 06/13/12 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Benzene	**818**	ug/L	5.0	10		06/18/12 16:30	71-43-2	
tert-Butyl Alcohol	**134**	ug/L	5.0	1		06/14/12 20:53	75-65-0	
Ethanol	ND	ug/L	250	1		06/14/12 20:53	64-17-5	
Ethylbenzene	**862**	ug/L	5.0	10		06/18/12 16:30	100-41-4	
Methyl-tert-butyl ether	**12.4**	ug/L	0.50	1		06/14/12 20:53	1634-04-4	
Toluene	**80.5**	ug/L	0.50	1		06/14/12 20:53	108-88-3	
Xylene (Total)	**3130**	ug/L	15.0	10		06/18/12 16:30	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	89	%	79-121	1		06/14/12 20:53	460-00-4	
Dibromofluoromethane (S)	95	%	81-119	1		06/14/12 20:53	1868-53-7	
1,2-Dichloroethane-d4 (S)	97	%	72-127	1		06/14/12 20:53	17060-07-0	
Toluene-d8 (S)	115	%	77-120	1		06/14/12 20:53	2037-26-5	
CA LUFT MSV GRO	Analytical Method: CA LUFT							
TPH-Gasoline (C05-C12)	**27400**	ug/L	500	10		06/19/12 07:44		
Surrogates								
4-Bromofluorobenzene (S)	86	%	76-121	10		06/19/12 07:44	460-00-4	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: 2705191
Pace Project No.: 2512555

QC Batch: MPRP/3094 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 2512555001, 2512555002, 2512555003, 2512555004, 2512555005, 2512555006, 2512555007

METHOD BLANK: 118958 Matrix: Water
Associated Lab Samples: 2512555001, 2512555002, 2512555003, 2512555004, 2512555005, 2512555006, 2512555007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron	ug/L	ND	100	06/19/12 10:36	

LABORATORY CONTROL SAMPLE: 118959

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	10000	9670	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 118960 118961

Parameter	Units	2512555001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Iron	ug/L	497	10000	10000	10700	10500	102	100	75-125	2	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: 2705191
Pace Project No.: 2512555

QC Batch: MSV/7205 Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 2512555001, 2512555002, 2512555003, 2512555004, 2512555007, 2512555008

METHOD BLANK: 119028 Matrix: Water
Associated Lab Samples: 2512555001, 2512555002, 2512555003, 2512555004, 2512555007, 2512555008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	0.50	06/14/12 14:03	
Ethanol	ug/L	ND	250	06/14/12 14:03	
Ethylbenzene	ug/L	ND	0.50	06/14/12 14:03	
Methyl-tert-butyl ether	ug/L	ND	0.50	06/14/12 14:03	
tert-Butyl Alcohol	ug/L	ND	5.0	06/14/12 14:03	
Toluene	ug/L	ND	0.50	06/14/12 14:03	
Xylene (Total)	ug/L	ND	1.5	06/14/12 14:03	
1,2-Dichloroethane-d4 (S)	%	106	72-127	06/14/12 14:03	
4-Bromofluorobenzene (S)	%	96	79-121	06/14/12 14:03	
Dibromofluoromethane (S)	%	103	81-119	06/14/12 14:03	
Toluene-d8 (S)	%	95	77-120	06/14/12 14:03	

LABORATORY CONTROL SAMPLE: 119029

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	16.9	85	66-123	
Ethanol	ug/L	800	923	115	40-160	
Ethylbenzene	ug/L	20	21.3	107	67-122	
Methyl-tert-butyl ether	ug/L	20	23.9	120	65-138	
tert-Butyl Alcohol	ug/L	100	115	115	57-153	
Toluene	ug/L	20	18.4	92	64-118	
Xylene (Total)	ug/L	60	67.8	113	68-122	
1,2-Dichloroethane-d4 (S)	%			104	72-127	
4-Bromofluorobenzene (S)	%			86	79-121	
Dibromofluoromethane (S)	%			106	81-119	
Toluene-d8 (S)	%			97	77-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 119030 119031

Parameter	Units	2512539003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Benzene	ug/L	ND	20	20	21.6	18.0	108	90	63-138	18	
Ethanol	ug/L	ND	800	800	974	1090	122	136	40-160	11	
Ethylbenzene	ug/L	ND	20	20	23.2	23.1	116	115	65-135	.5	
Methyl-tert-butyl ether	ug/L	ND	20	20	28.5	28.7	141	142	59-143	.5	
tert-Butyl Alcohol	ug/L	ND	100	100	137	155	136	154	46-156	12	
Toluene	ug/L	ND	20	20	21.5	20.1	107	100	64-128	7	
Xylene (Total)	ug/L	ND	60	60	74.0	73.6	123	123	65-133	.5	
1,2-Dichloroethane-d4 (S)	%						107	96	72-127		
4-Bromofluorobenzene (S)	%						82	89	79-121		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: 2705191
Pace Project No.: 2512555

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 119030 119031

Parameter	Units	2512539003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Dibromofluoromethane (S)	%						117	88	81-119		
Toluene-d8 (S)	%						99	94	77-120		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: 2705191
Pace Project No.: 2512555

QC Batch: MSV/7217
QC Batch Method: EPA 5030B/8260
Analysis Method: EPA 5030B/8260
Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 2512555006

METHOD BLANK: 119362 Matrix: Water
Associated Lab Samples: 2512555006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	0.50	06/18/12 10:17	
Ethanol	ug/L	ND	250	06/18/12 10:17	
Ethylbenzene	ug/L	ND	0.50	06/18/12 10:17	
Methyl-tert-butyl ether	ug/L	ND	0.50	06/18/12 10:17	
tert-Butyl Alcohol	ug/L	ND	5.0	06/18/12 10:17	
Toluene	ug/L	ND	0.50	06/18/12 10:17	
Xylene (Total)	ug/L	ND	1.5	06/18/12 10:17	
1,2-Dichloroethane-d4 (S)	%	97	72-127	06/18/12 10:17	
4-Bromofluorobenzene (S)	%	97	79-121	06/18/12 10:17	
Dibromofluoromethane (S)	%	100	81-119	06/18/12 10:17	
Toluene-d8 (S)	%	95	77-120	06/18/12 10:17	

LABORATORY CONTROL SAMPLE: 119363

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	18.0	90	66-123	
Ethanol	ug/L	800	859	107	40-160	
Ethylbenzene	ug/L	20	21.4	107	67-122	
Methyl-tert-butyl ether	ug/L	20	22.3	111	65-138	
tert-Butyl Alcohol	ug/L	100	103	103	57-153	
Toluene	ug/L	20	19.1	96	64-118	
Xylene (Total)	ug/L	60	67.2	112	68-122	
1,2-Dichloroethane-d4 (S)	%			96	72-127	
4-Bromofluorobenzene (S)	%			92	79-121	
Dibromofluoromethane (S)	%			101	81-119	
Toluene-d8 (S)	%			94	77-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 119800 119801

Parameter	Units	2512560012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Benzene	ug/L	ND	20	20	17.8	18.4	89	92	63-138	3	
Ethanol	ug/L	ND	800	800	737	867	92	108	40-160	16	
Ethylbenzene	ug/L	ND	20	20	21.5	22.3	107	111	65-135	4	
Methyl-tert-butyl ether	ug/L	ND	20	20	20.9	21.9	104	109	59-143	5	
tert-Butyl Alcohol	ug/L	5.5	100	100	107	118	102	113	46-156	10	
Toluene	ug/L	ND	20	20	18.8	19.5	94	97	64-128	4	
Xylene (Total)	ug/L	ND	60	60	67.0	69.2	112	115	65-133	3	
1,2-Dichloroethane-d4 (S)	%						95	94	72-127		
4-Bromofluorobenzene (S)	%						92	93	79-121		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: 2705191
Pace Project No.: 2512555

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 119800 119801

Parameter	Units	2512560012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Dibromofluoromethane (S)	%						100	100	81-119		
Toluene-d8 (S)	%						95	95	77-120		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: 2705191
Pace Project No.: 2512555

QC Batch: MSV/7237
QC Batch Method: EPA 5030B/8260
Analysis Method: EPA 5030B/8260
Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 2512555005

METHOD BLANK: 119678 Matrix: Water
Associated Lab Samples: 2512555005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	0.50	06/20/12 10:23	
Ethanol	ug/L	ND	250	06/20/12 10:23	
Ethylbenzene	ug/L	ND	0.50	06/20/12 10:23	
Methyl-tert-butyl ether	ug/L	ND	0.50	06/20/12 10:23	
tert-Butyl Alcohol	ug/L	ND	5.0	06/20/12 10:23	
Toluene	ug/L	ND	0.50	06/20/12 10:23	
Xylene (Total)	ug/L	ND	1.5	06/20/12 10:23	
1,2-Dichloroethane-d4 (S)	%	104	72-127	06/20/12 10:23	
4-Bromofluorobenzene (S)	%	94	79-121	06/20/12 10:23	
Dibromofluoromethane (S)	%	105	81-119	06/20/12 10:23	
Toluene-d8 (S)	%	94	77-120	06/20/12 10:23	

LABORATORY CONTROL SAMPLE: 119679

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	16.6	83	66-123	
Ethanol	ug/L	800	797	100	40-160	
Ethylbenzene	ug/L	20	19.8	99	67-122	
Methyl-tert-butyl ether	ug/L	20	22.1	111	65-138	
tert-Butyl Alcohol	ug/L	100	106	106	57-153	
Toluene	ug/L	20	17.7	88	64-118	
Xylene (Total)	ug/L	60	63.0	105	68-122	
1,2-Dichloroethane-d4 (S)	%			107	72-127	
4-Bromofluorobenzene (S)	%			87	79-121	
Dibromofluoromethane (S)	%			107	81-119	
Toluene-d8 (S)	%			95	77-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 119681 119682

Parameter	Units	2512620003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Benzene	ug/L	ND	20	20	19.3	19.7	97	98	63-138	2	
Ethanol	ug/L	ND	800	800	756	743	95	93	40-160	2	
Ethylbenzene	ug/L	ND	20	20	23.3	23.4	116	117	65-135	.5	
Methyl-tert-butyl ether	ug/L	ND	20	20	22.1	22.1	110	110	59-143	.07	
tert-Butyl Alcohol	ug/L	ND	100	100	101	102	98	99	46-156	1	
Toluene	ug/L	ND	20	20	20.4	20.7	101	102	64-128	1	
Xylene (Total)	ug/L	ND	60	60	74.0	73.9	123	123	65-133	.2	
1,2-Dichloroethane-d4 (S)	%						100	104	72-127		
4-Bromofluorobenzene (S)	%						86	86	79-121		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: 2705191
Pace Project No.: 2512555

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 119681 119682

Parameter	Units	2512620003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Dibromofluoromethane (S)	%						107	107	81-119		
Toluene-d8 (S)	%						97	96	77-120		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 119683 119684

Parameter	Units	2512621002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Benzene	ug/L	ND	20	20	18.7	19.5	93	97	63-138	4	
Ethanol	ug/L	ND	800	800	690	710	86	89	40-160	3	
Ethylbenzene	ug/L	ND	20	20	22.0	22.7	110	114	65-135	3	
Methyl-tert-butyl ether	ug/L	ND	20	20	20.0	20.7	100	104	59-143	4	
tert-Bulyl Alcohol	ug/L	ND	100	100	86.4	91.3	86	91	46-156	5	
Toluene	ug/L	ND	20	20	19.4	19.6	96	98	64-128	1	
Xylene (Total)	ug/L	ND	60	60	70.1	71.4	117	119	65-133	2	
1,2-Dichloroethane-d4 (S)	%						100	105	72-127		
4-Bromofluorobenzene (S)	%						86	86	79-121		
Dibromofluoromethane (S)	%						108	106	81-119		
Toluene-d8 (S)	%						95	97	77-120		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: 2705191
Pace Project No.: 2512555

QC Batch: MSV/7206 Analysis Method: CA LUFT
QC Batch Method: CA LUFT Analysis Description: CA LUFT MSV GRO
Associated Lab Samples: 2512555001, 2512555002, 2512555004, 2512555006

METHOD BLANK: 119033 Matrix: Water
Associated Lab Samples: 2512555001, 2512555002, 2512555004, 2512555006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-Gasoline (C05-C12)	ug/L	ND	50.0	06/14/12 13:45	
4-Bromofluorobenzene (S)	%	94	76-121	06/14/12 13:45	

LABORATORY CONTROL SAMPLE: 119034

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-Gasoline (C05-C12)	ug/L	500	400	80	57-139	
4-Bromofluorobenzene (S)	%			93	76-121	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 119035 119036

Parameter	Units	2512539003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
TPH-Gasoline (C05-C12)	ug/L	ND	500	500	448	413	86	79	40-150	8	
4-Bromofluorobenzene (S)	%						91	92	76-121		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 119749 119750

Parameter	Units	2512566004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
TPH-Gasoline (C05-C12)	ug/L	ND	500	500	386	387	74	74	40-150	.1	
4-Bromofluorobenzene (S)	%						92	93	76-121		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: 2705191
Pace Project No.: 2512555

QC Batch: MSV/7228
QC Batch Method: CA LUFT
Analysis Method: CA LUFT
Analysis Description: CA LUFT MSV GRO
Associated Lab Samples: 2512555003

METHOD BLANK: 119549 Matrix: Water
Associated Lab Samples: 2512555003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-Gasoline (C05-C12)	ug/L	ND	50.0	06/18/12 09:59	
4-Bromofluorobenzene (S)	%	96	76-121	06/18/12 09:59	

LABORATORY CONTROL SAMPLE: 119550

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-Gasoline (C05-C12)	ug/L	500	551	110	57-139	
4-Bromofluorobenzene (S)	%			95	76-121	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 119798 119799

Parameter	Units	2512639001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
TPH-Gasoline (C05-C12)	ug/L	1420	500	500	2000	2030	116	123	40-150	2	
4-Bromofluorobenzene (S)	%						94	93	76-121		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: 2705191
Pace Project No.: 2512555

QC Batch: MSV/7229 Analysis Method: CA LUFT
QC Batch Method: CA LUFT Analysis Description: CA LUFT MSV GRO
Associated Lab Samples: 2512555007, 2512555008

METHOD BLANK: 119568 Matrix: Water
Associated Lab Samples: 2512555007, 2512555008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-Gasoline (C05-C12)	ug/L	ND	50.0	06/19/12 00:19	
4-Bromofluorobenzene (S)	%	95	76-121	06/19/12 00:19	

LABORATORY CONTROL SAMPLE: 119569

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-Gasoline (C05-C12)	ug/L	500	475	95	57-139	
4-Bromofluorobenzene (S)	%			92	76-121	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 119570 119571

Parameter	Units	2512555007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
TPH-Gasoline (C05-C12)	ug/L	33400	5000	5000	38500	39500	102	123	40-150	3	
4-Bromofluorobenzene (S)	%						87	88	76-121		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: 2705191
Pace Project No.: 2512555

QC Batch: MSV/7239
QC Batch Method: CA LUFT
Analysis Method: CA LUFT
Analysis Description: CA LUFT MSV GRO
Associated Lab Samples: 2512555005

METHOD BLANK: 119699 Matrix: Water
Associated Lab Samples: 2512555005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-Gasoline (C05-C12)	ug/L	ND	50.0	06/20/12 10:05	
4-Bromofluorobenzene (S)	%	94	76-121	06/20/12 10:05	

LABORATORY CONTROL SAMPLE: 119700

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-Gasoline (C05-C12)	ug/L	500	384	77	57-139	
4-Bromofluorobenzene (S)	%			93	76-121	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 119803 119804

Parameter	Units	2512640001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
TPH-Gasoline (C05-C12)	ug/L	ND	500	500	392	392	76	76	40-150	.2	
4-Bromofluorobenzene (S)	%						91	92	76-121		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: 2705191
Pace Project No.: 2512555

QC Batch: OEXT/5658 Analysis Method: EPA 8015B
QC Batch Method: EPA 3510 Modified Analysis Description: 8015B CA DRO Silica Gel
Associated Lab Samples: 2512555001, 2512555002, 2512555004, 2512555005, 2512555006, 2512555007

METHOD BLANK: 119372 Matrix: Water
Associated Lab Samples: 2512555001, 2512555002, 2512555004, 2512555005, 2512555006, 2512555007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-DRO (C10-C24) SG	ug/L	ND	40.0	06/18/12 19:14	
n-Octacosane (S) SG	%	82	57-128	06/18/12 19:14	
o-Terphenyl (S) SG	%	84	46-125	06/18/12 19:14	

LABORATORY CONTROL SAMPLE: 119373

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-DRO (C10-C24) SG	ug/L	2000	1800	90	50-110	
n-Octacosane (S) SG	%			95	57-128	
o-Terphenyl (S) SG	%			95	46-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 119374 119375

Parameter	Units	2512539003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
TPH-DRO (C10-C24) SG	ug/L	ND	1900	1900	1700	1540	89	80	39-110	10	
n-Octacosane (S) SG	%						92	85	57-128		
o-Terphenyl (S) SG	%						92	83	46-125		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: 2705191
Pace Project No.: 2512555

QC Batch: OEXT/5672
QC Batch Method: EPA 3510 Modified
Analysis Method: EPA 8015B
Analysis Description: 8015B CA DRO Silica Gel
Associated Lab Samples: 2512555003

METHOD BLANK: 119763
Matrix: Water
Associated Lab Samples: 2512555003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-DRO (C10-C24) SG	ug/L	ND	40.0	06/19/12 17:37	
n-Octacosane (S) SG	%	93	57-128	06/19/12 17:37	
o-Terphenyl (S) SG	%	88	46-125	06/19/12 17:37	

LABORATORY CONTROL SAMPLE: 119764

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-DRO (C10-C24) SG	ug/L	2000	1920	96	50-110	
n-Octacosane (S) SG	%			98	57-128	
o-Terphenyl (S) SG	%			95	46-125	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: 2705191
Pace Project No.: 2512555

QC Batch: WETA/2625 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 2512555001, 2512555002, 2512555003, 2512555004, 2512555005, 2512555006, 2512555007

METHOD BLANK: 119504 Matrix: Water
Associated Lab Samples: 2512555001, 2512555002, 2512555003, 2512555004, 2512555005, 2512555006, 2512555007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	ug/L	ND	1000	06/19/12 16:10	

LABORATORY CONTROL SAMPLE: 119505

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	ug/L	15000	14900	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 119506 119507

Parameter	Units	2512538002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Sulfate	ug/L	13.2 mg/L	15000	15000	29200	28100	107	99	90-110	4	

MATRIX SPIKE SAMPLE: 119508

Parameter	Units	2512539003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	ug/L	118000	150000	260000	95	90-110	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: 2705191
Pace Project No.: 2512555

QC Batch: WETA/2623 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, preserved
Associated Lab Samples: 2512555001, 2512555002, 2512555003, 2512555004, 2512555005, 2512555006, 2512555007

METHOD BLANK: 119381 Matrix: Water
Associated Lab Samples: 2512555001, 2512555002, 2512555003, 2512555004, 2512555005, 2512555006, 2512555007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	ug/L	ND	50.0	06/25/12 13:28	

LABORATORY CONTROL SAMPLE: 119382

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	ug/L	1000	918	92	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 119383 119384

Parameter	Units	2512539003 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	4260	2000	2000	6310	6320	103	103	90-110	.2	

MATRIX SPIKE SAMPLE: 119385

Parameter	Units	2512555004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	ug/L	ND	1000	1060	104	90-110	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: 2705191
Pace Project No.: 2512555

QC Batch: WETA/2615 Analysis Method: SM 4500-NO2 B
QC Batch Method: SM 4500-NO2 B Analysis Description: SM4500NO2-B, Nitrite, unpres
Associated Lab Samples: 2512555001, 2512555002, 2512555003, 2512555004, 2512555005, 2512555007

METHOD BLANK: 118888 Matrix: Water
Associated Lab Samples: 2512555001, 2512555002, 2512555003, 2512555004, 2512555005, 2512555007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrite as N	mg/L	0.013	0.010	06/13/12 16:54	P8

LABORATORY CONTROL SAMPLE: 118889

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	.05	0.049	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 118890 118891

Parameter	Units	2512555002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Nitrite as N	mg/L	0.020	.05	.05	0.058	0.055	76	71	90-110	4	M1

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: 2705191
Pace Project No.: 2512555

QC Batch: WETA/2620
QC Batch Method: SM 4500-NO2 B
Analysis Method: SM 4500-NO2 B
Analysis Description: SM4500NO2-B, Nitrite, unpres
Associated Lab Samples: 2512555002, 2512555006

METHOD BLANK: 118978 Matrix: Water
Associated Lab Samples: 2512555002, 2512555006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrite as N	mg/L	ND	0.010	06/14/12 09:15	

LABORATORY CONTROL SAMPLE: 118979

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	.05	0.047	94	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 118980 118981

Parameter	Units	2512555002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Nitrite as N	mg/L	0.019	.05	.05	0.054	0.054	71	70	90-110	.9	M0

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical®
www.pacelabs.com

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

QUALIFIERS

Project: 2705191
Pace Project No.: 2512555

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.

PRL - Pace Reporting Limit.

RL - Reporting 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.

TNI - The NELAC Institute.

LABORATORIES

PASI-S	Pace Analytical Services - Seattle

BATCH QUALIFIERS

Batch: GCSV/3625

[M5]	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

1n	Sample may be biased high due to matrix interference.
2n	The GRO result for this sample did not match the pattern of the laboratory standard for gasoline. This is likely due to the presence of MTBE in the sample.
D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
P4	Sample field preservation does not meet EPA or method recommendations for this analysis.
P8	Analyte was detected in the method blank. All associated samples had concentrations of at least ten times greater than the blank or were below the reporting limit.
S5	Surrogate recovery outside control limits due to matrix interferences (not confirmed by re-analysis).
T4	Result reported for hydrocarbons within the method-specific range that do not match pattern of laboratory standard.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2705191
Pace Project No.: 2512555

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2512555001	MW-12_20120630	EPA 3510 Modified	OEXT/5658	EPA 8015B	GCSV/3620
2512555002	MW-13_20120630	EPA 3510 Modified	OEXT/5658	EPA 8015B	GCSV/3620
2512555003	MW-14_20120630	EPA 3510 Modified	OEXT/5672	EPA 8015B	GCSV/3625
2512555004	MW-15_20120630	EPA 3510 Modified	OEXT/5658	EPA 8015B	GCSV/3620
2512555005	MW-16_20120630	EPA 3510 Modified	OEXT/5658	EPA 8015B	GCSV/3620
2512555006	MW-17_20120630	EPA 3510 Modified	OEXT/5658	EPA 8015B	GCSV/3620
2512555007	MW-6_20120630	EPA 3510 Modified	OEXT/5658	EPA 8015B	GCSV/3620
2512555001	MW-12_20120630	EPA 3010	MPRP/3094	EPA 6010	ICP/2878
2512555002	MW-13_20120630	EPA 3010	MPRP/3094	EPA 6010	ICP/2878
2512555003	MW-14_20120630	EPA 3010	MPRP/3094	EPA 6010	ICP/2878
2512555004	MW-15_20120630	EPA 3010	MPRP/3094	EPA 6010	ICP/2878
2512555005	MW-16_20120630	EPA 3010	MPRP/3094	EPA 6010	ICP/2878
2512555006	MW-17_20120630	EPA 3010	MPRP/3094	EPA 6010	ICP/2878
2512555007	MW-6_20120630	EPA 3010	MPRP/3094	EPA 6010	ICP/2878
2512555001	MW-12_20120630	EPA 5030B/8260	MSV/7205		
2512555002	MW-13_20120630	EPA 5030B/8260	MSV/7205		
2512555003	MW-14_20120630	EPA 5030B/8260	MSV/7205		
2512555004	MW-15_20120630	EPA 5030B/8260	MSV/7205		
2512555005	MW-16_20120630	EPA 5030B/8260	MSV/7237		
2512555006	MW-17_20120630	EPA 5030B/8260	MSV/7217		
2512555007	MW-6_20120630	EPA 5030B/8260	MSV/7205		
2512555008	FD1_20120630	EPA 5030B/8260	MSV/7205		
2512555001	MW-12_20120630	CA LUFT	MSV/7206		
2512555002	MW-13_20120630	CA LUFT	MSV/7206		
2512555003	MW-14_20120630	CA LUFT	MSV/7228		
2512555004	MW-15_20120630	CA LUFT	MSV/7206		
2512555005	MW-16_20120630	CA LUFT	MSV/7239		
2512555006	MW-17_20120630	CA LUFT	MSV/7206		
2512555007	MW-6_20120630	CA LUFT	MSV/7229		
2512555008	FD1_20120630	CA LUFT	MSV/7229		
2512555001	MW-12_20120630	EPA 300.0	WETA/2625		
2512555002	MW-13_20120630	EPA 300.0	WETA/2625		
2512555003	MW-14_20120630	EPA 300.0	WETA/2625		
2512555004	MW-15_20120630	EPA 300.0	WETA/2625		
2512555005	MW-16_20120630	EPA 300.0	WETA/2625		
2512555006	MW-17_20120630	EPA 300.0	WETA/2625		
2512555007	MW-6_20120630	EPA 300.0	WETA/2625		
2512555001	MW-12_20120630	EPA 353.2	WETA/2623		
2512555002	MW-13_20120630	EPA 353.2	WETA/2623		
2512555003	MW-14_20120630	EPA 353.2	WETA/2623		
2512555004	MW-15_20120630	EPA 353.2	WETA/2623		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical®
www.pacelabs.com

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2705191
Pace Project No.: 2512555

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2512555005	**MW-16_20120630**	EPA 353.2	WETA/2623		
2512555006	**MW-17_20120630**	EPA 353.2	WETA/2623		
2512555007	**MW-6_20120630**	EPA 353.2	WETA/2623		
2512555001	**MW-12_20120630**	SM 4500-NO2 B	WETA/2615		
2512555002	**MW-13_20120630**	SM 4500-NO2 B	WETA/2615		
2512555002	**MW-13_20120630**	SM 4500-NO2 B	WETA/2620		
2512555003	**MW-14_20120630**	SM 4500-NO2 B	WETA/2615		
2512555004	**MW-15_20120630**	SM 4500-NO2 B	WETA/2615		
2512555005	**MW-16_20120630**	SM 4500-NO2 B	WETA/2615		
2512555006	**MW-17_20120630**	SM 4500-NO2 B	WETA/2620		
2512555007	**MW-6_20120630**	SM 4500-NO2 B	WETA/2615		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

20120630.2705191.WG_Q_201206.BO

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 # 1 of 2

2512555 2Q12 GW Event

Required Lab Information:		Required Project Information:				Required Invoice Information:					
Lab Name:	Pace-Seattle	Site ID #:	2705191	Task:	WG_Q_201206	Send Invoice to:	Tara Bosch				
Address:		AnteaGrp proj#				Address:	11050 White Rock Road, Suite 110			Turn around time (days)	10
940 S. Harney Street Seattle WA 98108		Site Address	449 Hegenberger			City/State	Rancho Cordova CA 95670	Phone #:	1-800-477-7411	QC level Required: Standard	Special / Mark one
Lab PM:	Regina Ste. Marie	City	Oakland	State	CA 94621	Reimbursement project?		Non-reimbursement project?	Y	NJ Reduced Deliverable Package?	
Phone/Fax:	P: 206-957-2433 F: 206-767-5063	AG PM Name:	Dennis Dettloff			Send EDD to	copetldata@intellgentehs.com			MA MCP Cert? / CT RCP Cert?	Mark One
Lab PM email	Regina.SteMarie@pacelabs.com	Phone/Fax:	P: 1-800-477-7411 F: 916-638-8385			CC Hardcopy report to				Lab Project ID (lab use)	
Applicable Lab Quote #:		AG PM Email:	dennis.dettloff@anteagroup.com			CC Hardcopy report to				Requested Analyses	

Valid Matrix Codes — MATRIX: DRINKING WATER (WT), GROUND WATER (WG), WASTE WATER (WW), PRODUCT (P), SOIL (SO), OIL (OL), WIPE (WP), AIR (AR), TISSUE (TS); MATRIX: WATER (WT), SURFACE WATER (SW), WATER QC (QC), SLUDGE (SL), SOLID (SO), OTHER (OT), ANIMAL TISSUE (TS)

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	300Sulfate	353.2 Nitrate/N	6010Iron Total	8015TPHDiesel W/Silica	8260 GCMS GRO	8260BtexMtbeTBA	8260Ethanol	Comments/Lab Sample I.D.
1	MW-10_20120630	WG														x	x	x	x	x	x	x	
2	~~MW-11_20120630~~	WG														x	x	x	x	x	x	x	
3	MW-12_20120630	WG	G	6/12/12	1040	11	N	x	x	x	x					x	x	x	x	x	x	x	
4	~~MW-12A_20120630~~	WG														x	x	x	x	x	x	x	
5	MW-13_20120630	WG	G	6/12/12	0935	11	N	x	x	x	x					x	x	x	x	x	x	x	
6	MW-14_20120630	WG	G	6/12/12	1125	11	N	x	x	x	x					x	x	x	x	x	x	x	
7	MW-15_20120630	WG	G	6/12/12	0955	11	N	x	x	x	x					x	x	x	x	x	x	x	
8	MW-16_20120630	WG	G	6/12/12	1020	11	N	x	x	x	x					x	x	x	x	x	x	x	
9	MW-17_20120630	WG	G	6/12/12	1140	11	N	x	x	x	x					x	x	x	x	x	x	x	
10	MW-6_20120630	WG	G	6/12/12	1100	11	N	x	x	x	x					x	x	x	x	x	x	x	
11	FD1_20120630	W	G	6/12/12	1105	6	N				x								x	x	x		
12	~~MW-5_20120630~~	WG														x	x	x	x	x	x	x	
13	~~MW-7_20120630~~	WG														x	x	x	x	x	x	x	
14	~~MW-8_20120630~~	WG														x	x	x	x	x	x	x	
15	~~MW-9_20120630~~	WG														x	x	x	x	x	x	x	

Additional Comments/Special Instructions:

Global ID: T0600101476

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	6/12/12	1330	(sample Cust)	6/12/12	1330
				6/13/12	1000

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

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Gregory Sobers
SIGNATURE of SAMPLER
Date Signed: 6/11/12 Time: 1215

Sample Receipt Conditions

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

Final 11/13/06. AMTait

Sample Container Count

CLIENT: COP Antea ELT

2512555

Pace Analytical

COC PAGE 1 of 1

COC ID# _____

Trip Blank(s) Provided? Y / (N)

Sample Line Item	VG9H	AG1H	AG1U	BP1U	BP2U	BP3U	BP3N	BP3S	WGKU	WGFU	WG2U	DG9M	DG9B	VG9W	VSG				Comments
1	6		2		1		1 1.0	1 1.0											
2	↓		↓		↓		↓	↓											
3							7.0	7.0											
4							1.0	1.0											
5							↓	↓											
6							7.0	7.0											
7							1.0	1.0											
8	↓		↓		D		↓	↓											
9																			
10																			
11																			
12																			

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

Sample Condition Upon Receipt

Pace Analytical

Client Name: COP Attica ELT Project # 2512555

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

Tracking #: 8726 5341 7609, 8989 0685 1290

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 228099 Type of Ice: Wet Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature 5.4, 5.0 Biological Tissue is Frozen: Yes No

Temp should be above freezing ≤ 6°C

Date and Initials of person examining contents: 6/13/12

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. NO3	
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:	WT		
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	14. MW-14 initial pH (H_2SO_4 & HNO_3): 7.0 → 2.5 mL H_2SO_4/HNO_3 added Final pH: 1.0	
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☑No ☐N/A	MW-17 initial pH (H_2SO_4 & HNO_3): 7.0 → 2.5 mL H_2SO_4/HNO_3 added Final pH: 1.0	
Exceptions: VOA, coliform, TOC, O&G	☑Yes ☐No ☐N/A	Initial when completed: JD	Lot # of added preservative: H_2SO_4 107596, HNO_3: 111122
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 Creation Date:			

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

Person Contacted: Dennis Dewolf Date/Time: 06/13/12 13:30

Comments/ Resolution:

Notified Dennis about receiving MW-14 and MW-17 at pH 7.

Project Manager Review: KAREN JOAY **Date:** 06/13/12

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)