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Alameda County Environmental Health

October 20, 2011

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

Subject:

Quarterly Summary Report, Third Quarter 2011

Site:

76 Station No. 6277 15803 East 14th Street

San Leandro, California

Fuel Leak Case No. RO0002969

Dear Ms. Jakub;

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

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

Brian Whalen Platinum Energy 30343 Canwood Street, Suite 200 Agoura Hills, Ca 91301

Tel: (818) 206-5704 Fax: (818) 206-5721

bwhalen@platinum-energy.net

Sincerely,

PLATINUM ENERGY

BRIAN WHALEN

Attachment



Quarterly Summary Report, Third Quarter 2011

76 Service Station No. 6277 15803 East 14th Street San Leandro, California

Alameda County Health LOP Fuel leak Case No. RO0002969

GeoTracker Global ID No.T0619718179

Antea Group Project No. 140256277

October 20, 2011

Prepared for:

Ms. Barbara Jakub

Hazardous Materials Specialist 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

1.0	INTRODUCTION
1.1	Work Performed [Third Quarter 2011]
1.2	Work Proposed [Fourth Quarter 2011]
2.0	CURRENT PROJECT STATUS
2.1	Regulatory Correspondence
2.2	Remedial Activities
2.3	Remedial Activities
2.3.	
2.3.	
2.3.	
2.3.	
2.3.	
3.0	CONCLUSIONS AND RECOMMENDATIONS
4.0	REMARKS
4.0	I/FIAIUI//

Figures

Figure 1 Site Location Map

Figure 2 Site Plan

Figure 3 Groundwater Elevation Contour Map – July 26, 2011

Figure 4 Dissolved Phase TPHg Isoconcentration Map – July 26, 2011

Figure 5 Dissolved Phase Benzene Isoconcentration Map – July 26, 2011

Figure 6 Dissolved Phase MTBE Isoconcentration Map – July 26, 2011

Figure 7 Historical Groundwater Flow Directions

Tables

Table 1 Current Groundwater Gauging and Analytical Data
 Table 2 Historical Groundwater Gauging and Analytical Data
 Table 3 Historical Groundwater Gradient and Flow Direction Data

Appendices

Appendix A
 Appendix B
 Appendix B Blaine Tech Services Groundwater Sampling Procedures
 Appendix C
 Blaine Tech Services Groundwater Sampling Field Data Sheets
 Appendix D
 Certified Laboratory Analytical Report and Data Validation Form
 Appendix E
 Waste Manifest



1.0 INTRODUCTION

AnteaTMGroup is pleased to submit this *Quarterly Summary Report, Third Quarter 2011*, for the referenced site in San Leandro, CA (**Figure 1**). The subject site is currently an operating 76 service station located at 15803 East 14th Street in San Leandro, California (**Figure 1**). Station facilities include two 12,000 gallon fuel underground storage tanks (USTs), a 520-gallon waste-oil UST, two dispenser islands and a service station building, containing three service bays (**Figure 2**). A total of four groundwater monitoring wells are located at the site (**Figure 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 July 26, 2011. Included herein are site figures and 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 [Third Quarter 2011]

- 1. Antea Group submitted the *Site Investigation Report*, dated July 5, 2011 to the Alameda County Health Care Services Agency (ACHCSA).
- 2. Blaine Tech Services, Inc. (Blaine Tech) conducted the third quarter 2011 groundwater monitoring and sampling event on July 26, 2011.

1.2 Work Proposed [Fourth Quarter 2011]

- 1. Antea Group will submit the *Quarterly Summary Report, Third Quarter 2011* (contained herein) to the ACHCSA.
- 2. Blaine tech will conduct the fourth quarter 2011 monitoring and sampling event.

2.0 CURRENT PROJECT STATUS

1

Current phase of project:	Quarterly Groundwater Monitoring
Local Oversight Program (LOP) –	Alameda County Health Care Services Agency Case No. RO0002969
Lead agency for cleanup oversight:	
Secondary agency(s):	None
Monitoring well gauging schedule:	Quarterly: MW-7 through MW-9
Monitoring well sampling schedule:	Quarterly: MW-7 through MW-9
Total number of monitoring/remediation wells:	Four
Range of well depths (total depth below ground surface, bgs):	Wells are set from 19 feet to 24 feet bgs.



Wells with historical measurable LNAPL (light non-aqueous phase liquid):	None				
Historical depth to water range, in feet below top of casing (BTOC):	Min: 9.40 (MW-7 and MW-8, Q2 2011) Max: 10.74 (MW-10, Q3 2011)				
Historical groundwater elevation range (ft) for wells MW-1 through MW-3:	Min: 25.17 (MW-7, Q3 2011) Max: 25.54 (MW-9, Q2 2011)				
Local receptors:	See Attachment A				
Current remediation technique	None				

2.1 Regulatory Correspondence

No regulatory correspondence was received from the ACHCSA during the third quarter 2011.

2.2 Remedial Activities

No remedial activities took place during the third quarter 2011.

2.3 Groundwater Monitoring

For the July 2011 groundwater monitoring and sampling event, four 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 1**.

Well gauging and sampling date:	July 26, 2011
Wells gauged:	MW-7 through MW-10
Wells sampled:	MW-7 through MW-10
Purge method:	3 well casing volumes via electric, submersible pump
Sample collection method:	Disposable bailers
Groundwater parameters measured (Appendix C):	Temperature, pH, Conductivity, Oxidation-reduction potential (ORP), Turbidity, Dissolved Oxygen (DO)
Wells with measurable LNAPL:	None
Current depth to water range (ft below top of casing (BTOC)):	Min: 9.42 (MW-8) Max: 10.74 (MW-10)
Current groundwater elevation range (ft):	Min: 25.17 (MW-7) Max: 25.51 (MW-9)
Change in water depths from previous event (average change for all gauged wells):	0.05 foot increase
Groundwater flow direction and gradient in foot per foot (ft/ft):	Northwest at 0.004 ft/ft

2.3.1 Groundwater Flow Gradient and Direction

The third quarter 2011 groundwater monitoring and sampling event was performed by Blaine Tech on July 26, 2011. The average groundwater elevation was 25.34 feet above mean sea level. The average groundwater elevation



decreased 0.05 feet from the April 2011 event. Depth to groundwater in the site monitoring wells ranged from 9.42 feet (MW-8) to 10.74 feet (MW-10) BTOC during the current event. The groundwater flow direction and gradient were interpreted to be to the northwest at 0.004 ft/ft during the current event. A groundwater elevation contour map is presented on **Figure 3**.

2.3.2 Groundwater Quality Data

Groundwater samples collected during the third quarter 2011 were submitted with chain-of-custody 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 are 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;
- Benzene, toluene, ethylbenzene, total xylenes (BTEX), methyl tertiary-butyl ether (MTBE), tertiary-butyl alcohol (TBA), di-isopropyl ether (DIPE), ethyl tertiary-butyl ether (ETBE), tertiary amyl-methyl ether (TAME), 1,2-dibromoethane (EDB), 1,2-dichloroethane (1,2-DCA), and ethanol by EPA Method 8260.

Groundwater analytical results are presented in **Tables 1** (current) and **Tables 2** (historical samples). The following ranges of contaminant concentrations were reported in the specified site wells groundwater samples collected on July 26, 2011. 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	4 of 4	169* (MW-10)	1,770 (MW-7)				
Benzene	2 of 4	4.0 (MW-8)	27.3 (MW-7)				
Toluene	1 of 4	18.9 (MW-7)	18.9 (MW-7)				
Ethylbenzene	2 of 4	1.4 (MW-10)	66.4 (MW-7)				
Total Xylenes	1 of 4	341 (MW-7)	341 (MW-7)				
MTBE	4 of 4	1.7 (MW-9)	102 (MW-7)				

Explanations:

μg/L = Micrograms per liter

LRL = Laboratory reporting limit

2.3.3 Groundwater Contaminant Trends

During the third quarter 2011, analytical results from the sample collected from monitoring well MW-7 indicated that TPHg, total xylenes, MTBE, and TBA decreased in concentration and benzene, toluene, and ethylbenzene increased in concentration. Analytical results from the groundwater sample collected from monitoring well MW-8

^{* =} 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 tetrachloroethene in the sample.



indicated a decrease in TPHg, toluene, ethylbenzene, and total xylenes concentrations and an increase in benzene and MTBE concentrations. Analytical results from the groundwater sample collected from monitoring well MW-9 indicated a decrease in TPHg and an increase in MTBE. Analytical results from the groundwater samples collected from monitoring wells MW-10 indicated a decrease in TPHg, ethylbenzene, and total xylenes concentrations and an increase in MTBE concentrations. Isoconcentration maps for TPHg, benzene, and MTBE are presented on **Figures 4** through **6** and historical flow directions are presented on **Figure 7**.

2.3.4 Waste Disposal Summary

Approximately 30 gallons of waste water were generated during well purging/sampling and equipment cleaning during the third 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. A copy of the waste manifest is presented as **Appendix E.**

2.3.5 Quality Assurance / Quality Control

Antea Group's QA/QC measures included a detailed QA/QC data validation check on the Pace Laboratory analytical results for the July 2011 sampling event. Antea Group's laboratory data validation checklist and the Pace laboratory report are presented as **Appendix C**.

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

^{*1}n – The TPHg result for this sample did not match the laboratory standard for gasoline. This is likely due to the presence of tetrachloroethene in the sample.

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

Based on the results of soil samples taken during the monitoring well installation activities and the groundwater samples collected on April 18, 2011 it appears that site conditions have remained consistent with conditions present when the site was granted closure in 2000. This appears to indicate that there has not been a new release since the site was granted closure.

Antea Group recommends that quarterly monitoring and sampling of the on-site monitoring wells continue in order to determine if there has been a new release at the site. Further recommendations for additional site investigation will be made after additional quarterly sampling events have been completed.



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.

DENNIS SHANNON

DETTLOFF No. 7480

Date

Licensed Approver:

Dennis S. Dettloff

Project Manager

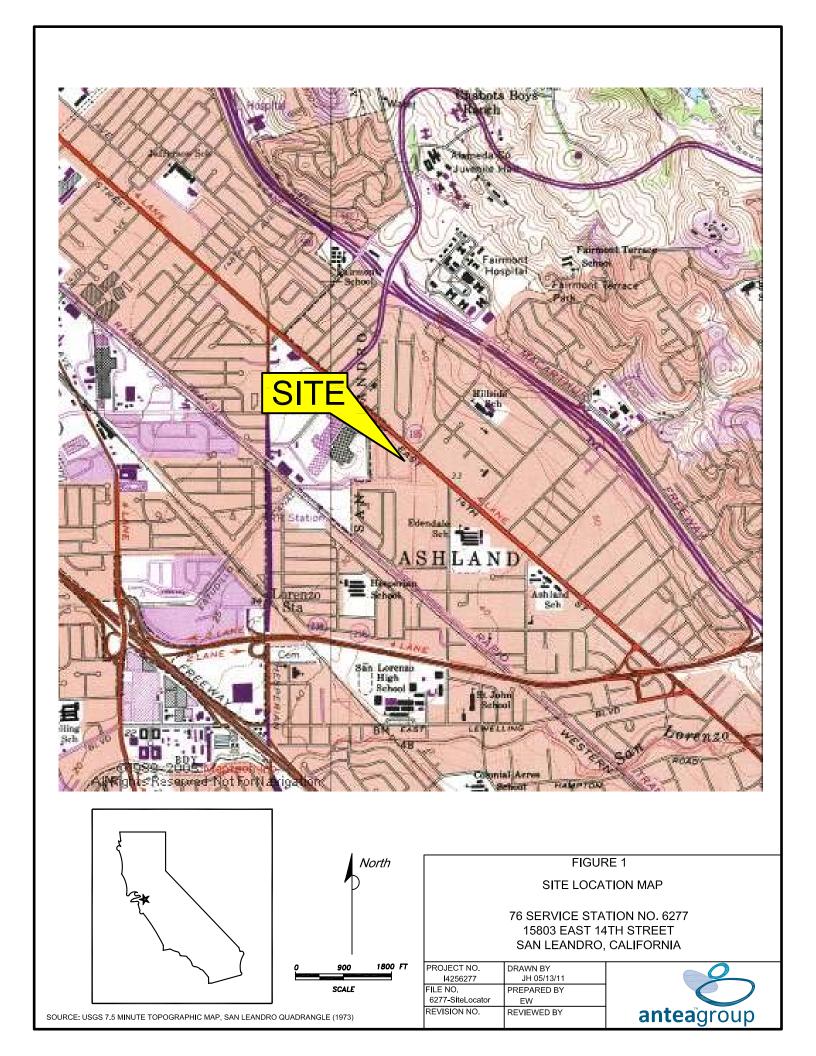
California Registered Professional Geologist No. 7480

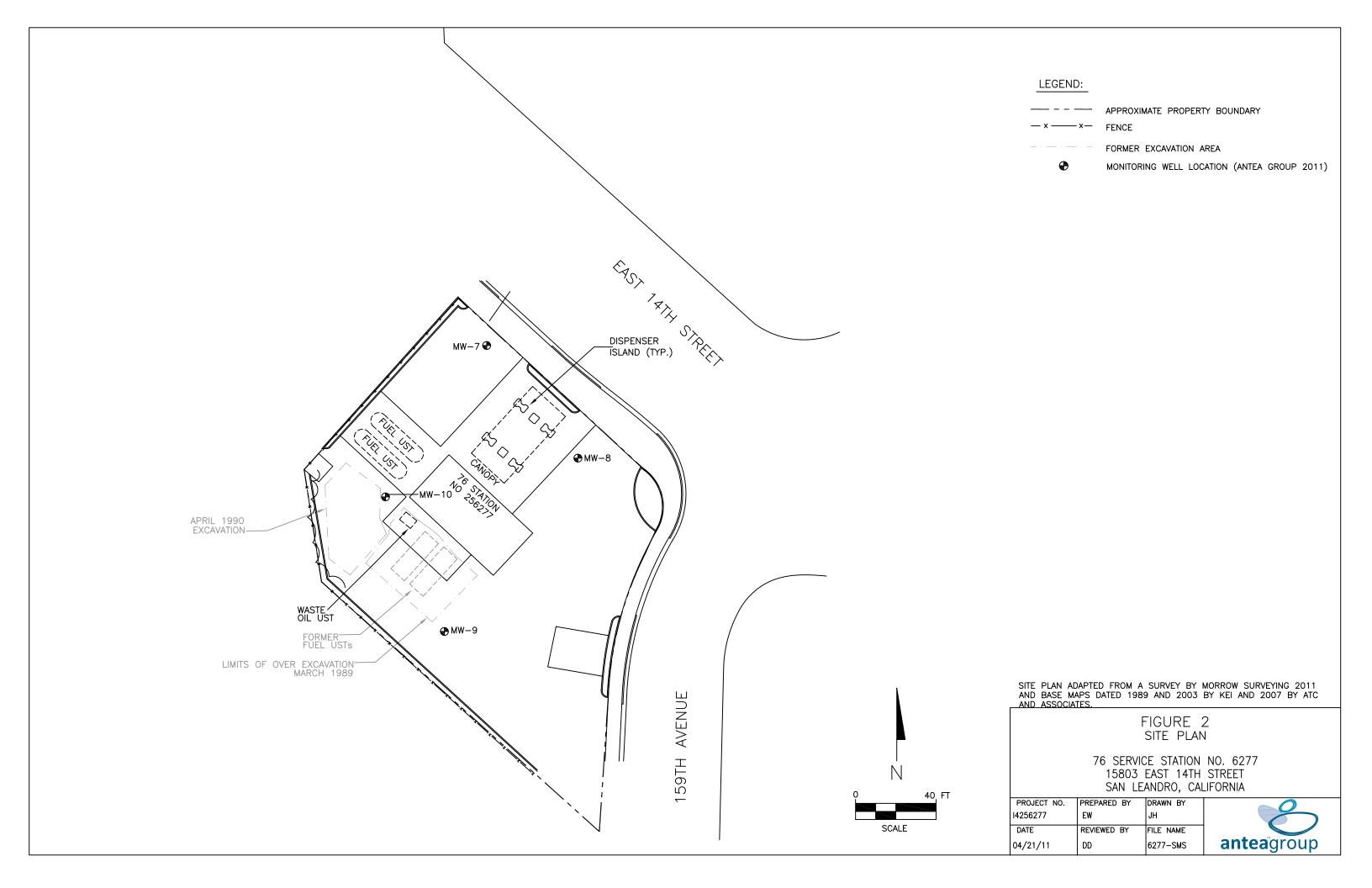
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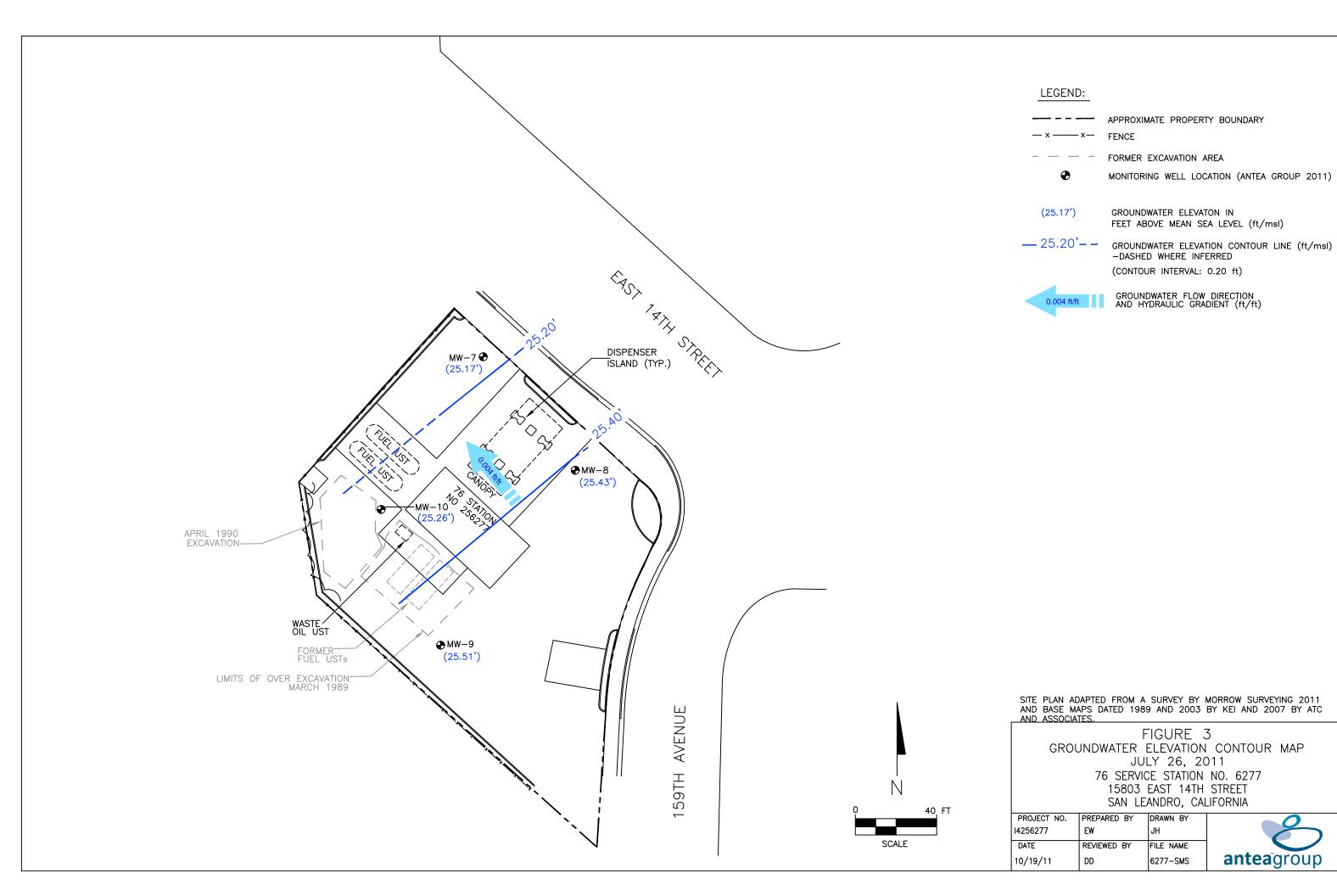


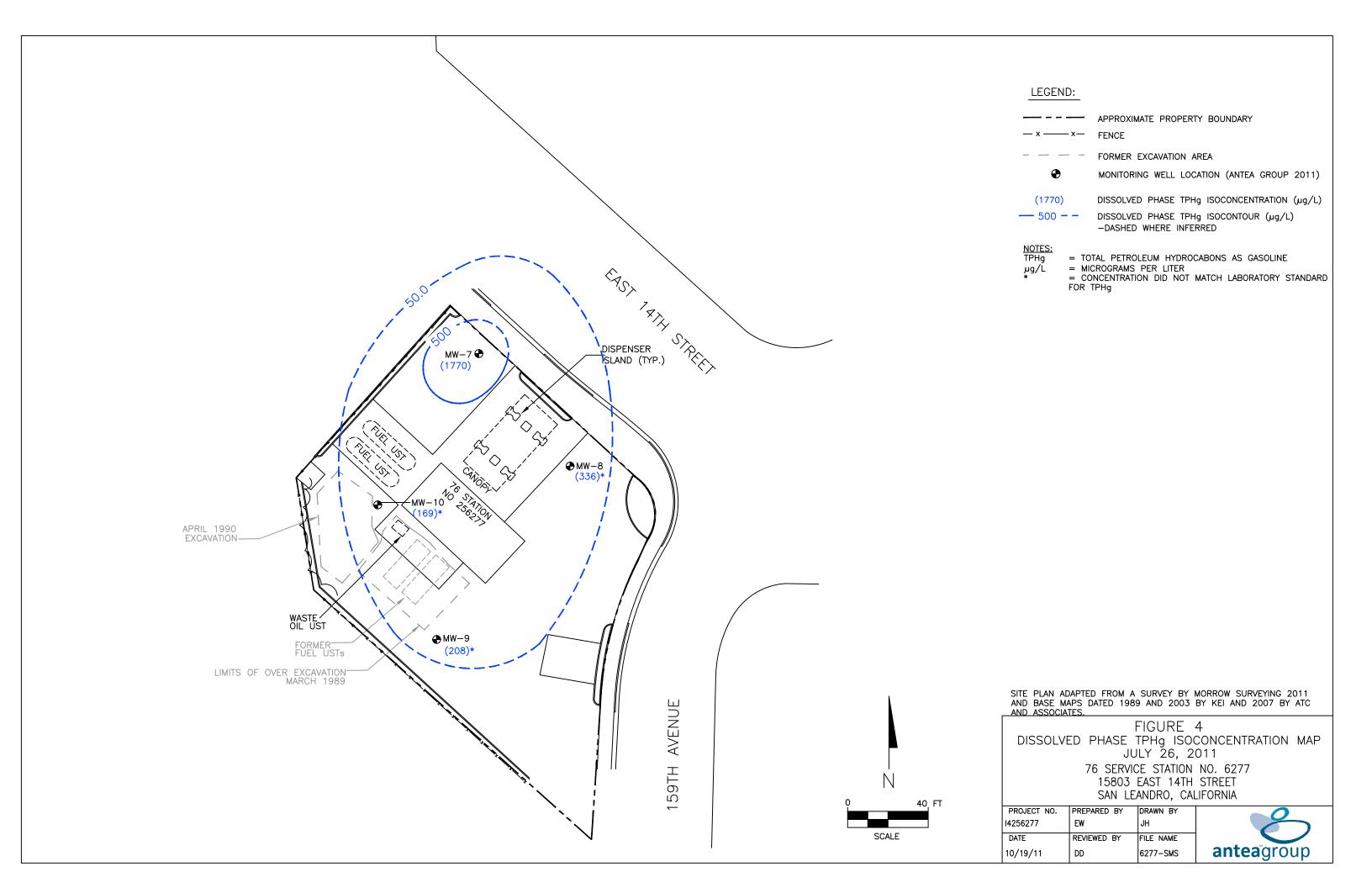
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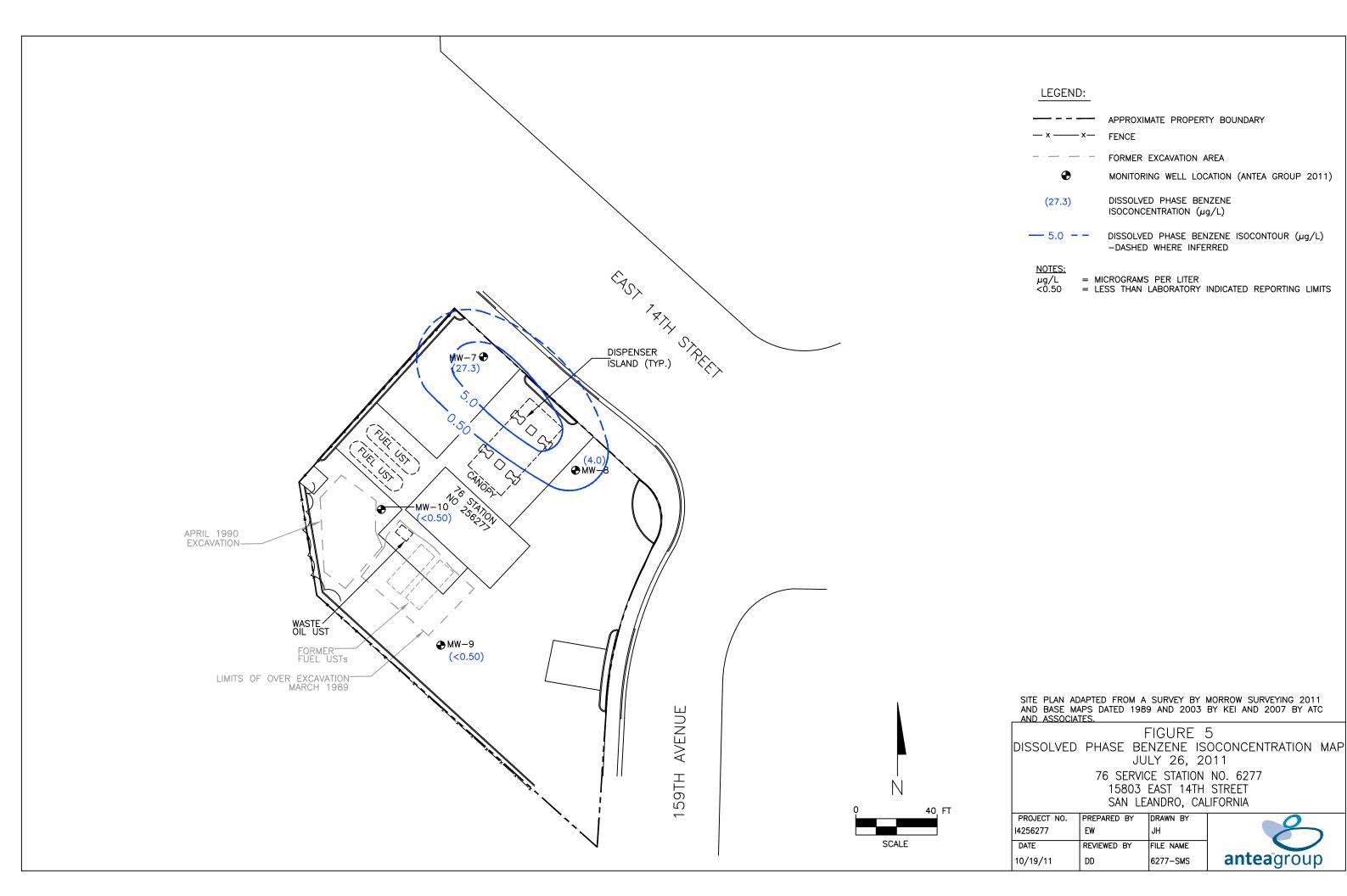
Figure 1	Site Location Map
Figure 2	Site Plan
Figure 3	Groundwater Elevation Contour Map – July 26, 2011
Figure 4	Dissolved Phase TPHg Isoconcentration Map – July 26, 2011
Figure 5	Dissolved Phase Benzene Isoconcentration Map – July 26, 2011
Figure 6	Dissolved Phase MTBE Isoconcentration Map – July 26, 2011
Figure 7	Historical Groundwater Flow Directions











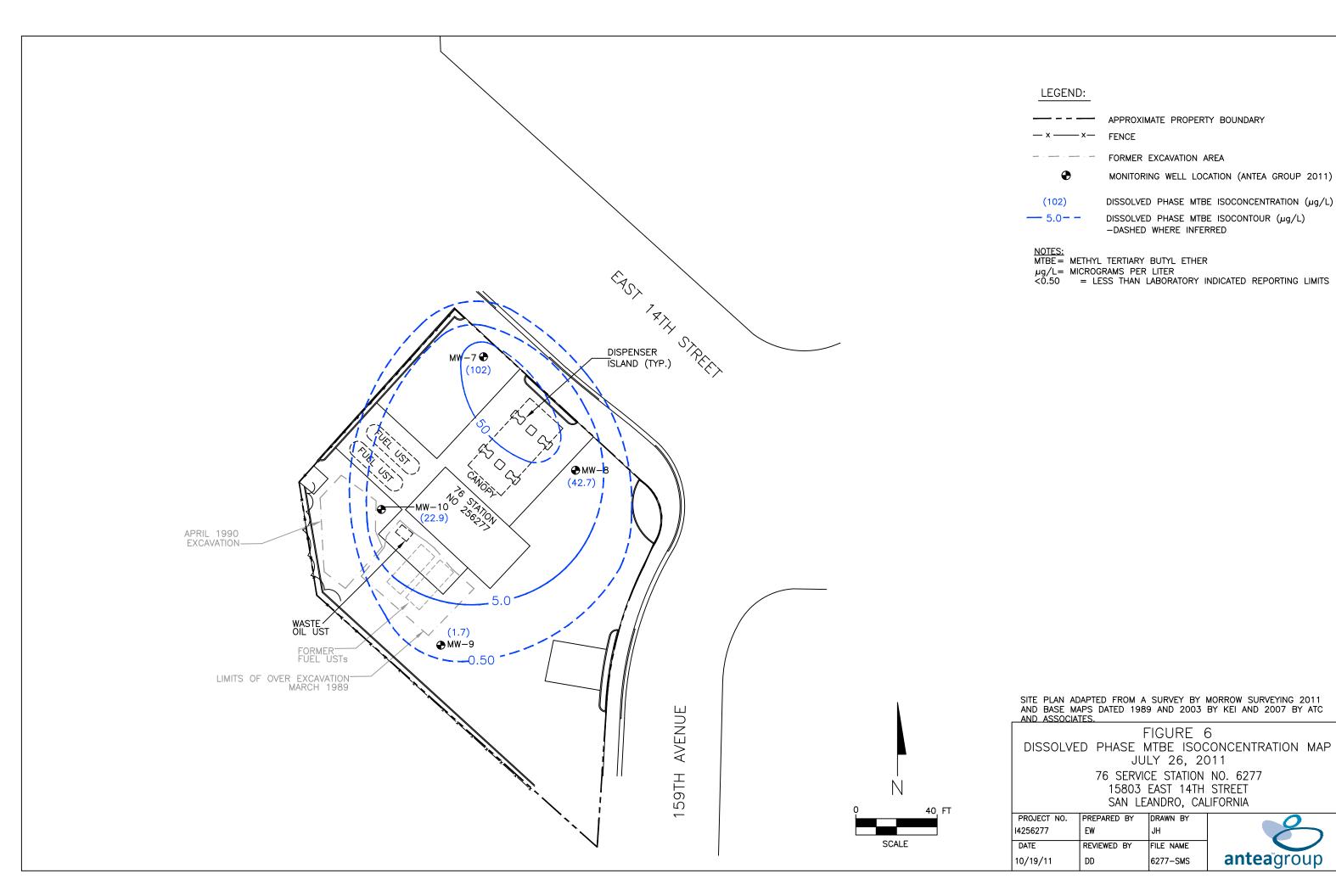
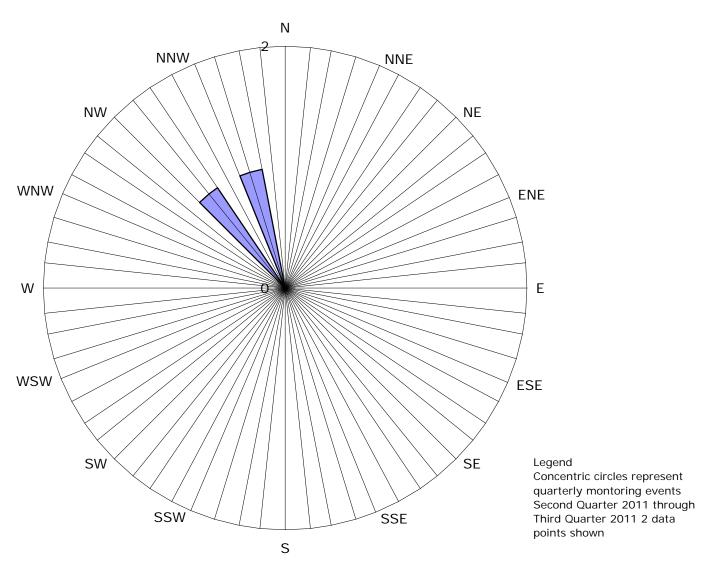


Figure 7
Historical Groundwater Flow Directions
76 Service Station No. 6277

15803 East 14th Street San leandro, California





Tables

Table 1	Current Groundwater Gauging and Analytical Data
Table 2	Historical Groundwater Gauging and Analytical Data
Table 3	Historical Groundwater Gradient and Flow Direction Data

TABLE 1

CURRENT GROUNDWATER GAUGING AND ANALYTICAL DATA

76 Service Station No. 6277 15803 EAST 14TH ST SAN LEANDRO, CALIFORNIA



	Ī	GROUNDWATER GAUGING DATA				GROUNDWATER ANALYTICAL DATA												
Well I.D.	Date	TOC Elevation (ft)	Depth to Water (ft)		Water Elevation* (ft)	TPHg (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	Ethanol (ug/L)	1,2- Dibromoethane (EDB) (ug/L)	1,2- Dichloroethane (ug/L)
MW-7	7/26/2011	34.60	9.43	NP	25.17	1,770	27.3	18.9	66.4	341	102	<0.50	<0.50	<0.50	<5.0	<250	<1.0	<1.0
MW-8	7/26/2011	34.85	9.42	NP	25.43	336 1n	4.0	<0.50	<0.50	<1.5	42.7	<0.50	<0.50	<0.50	<5.0	<250	<1.0	<1.0
MW-9	7/26/2011	35.09	9.58	NP	25.51	176	<0.50	<0.50	<0.50	<1.5	1.7	<0.50	<0.50	<0.50	<5.0	<250	<1.0	<1.0
MW-10	7/26/2011	36.00	10.74	NP	25.26	169 1n	<0.50	<0.50	1.4	<1.5	22.9	<0.50	<0.50	<0.50	<5.0	<250	<1.0	<1.0

Gauging Notes:

TOC - Top of Casing

ft - Feet

NP - LNAPL not present

LNAPL - Light non-aqueous phase liquid

- * Corrected for LNAPL if present (assumes LNAPL specific gravity = 0.75)
- -- No information available

Analytical Notes:

< - Below laboratory's indicated reporting limit

ug/L - micrograms/liter

TPHg- Total petroleum hydrocarbons as gasoline

MTBE- Methyl tertiary-butyl ether TBA- Tertiary-butyl alcohol

DIPE- Di-isopropyl ether ETBE- Ethyl tertiary-butyl ether

TAME- Tertiary-amyl methyl ether

BOLD- Above laboratory's indicated reporting limit

1n- 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 tetrachloroethene in the sample

TABLE 2 HISTORICAL GROUNDWATER GAUGING AND ANALYTICAL DATA 76 Service Station No. 6277 15803 EAST 14TH ST

SAN LEANDRO, CALIFORNIA



		GROUNDWATER GAUGING DATA					GROUNDWATER ANALYTICAL DATA											
Well I.D.	Date	TOC Elevation (ft)	Depth to Water (ft)		Water Elevation* (ft)	TPHg (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	Ethanol (ug/L)	1,2- Dibromoethane (EDB) (ug/L)	1,2- Dichloroethane (ug/L)
MW-7	4/18/2011	34.60	9.40	NP	25.20	2420	22.4	12.4	11.3	449	152	<0.50	<0.50	<0.50	5.7	<250	<1.0	<1.0
10100-7	7/26/2011	34.60	9.43	NP	25.17	1770	27.3	18.9	66.4	341	102	<0.50	<0.50	<0.50	<5.0	<250	<1.0	<1.0
MW-8	4/18/2011	34.85	9.40	NP	25.45	439	1.4	0.75	2.8	14.2	28.3	<0.50	<0.50	<0.50	<5.0	<250	<1.0	<1.0
IVIVV-8	7/26/2011	34.85	9.42	NP	25.43	336	4.0	<0.50	<0.50	<1.5	42.7	<0.50	<0.50	<0.50	<5.0	<250	<1.0	<1.0
MW-9	4/18/2011	35.09	9.55	NP	25.54	208	<0.50	<0.50	<0.50	<1.5	1.6	<0.50	<0.50	<0.50	<5.0	<250	<1.0	<1.0
10100-9	7/26/2011	35.09	9.58	NP	25.51	176	<0.50	<0.50	<0.50	<1.5	1.7	<0.50	<0.50	<0.50	<5.0	<250	<1.0	<1.0
MW-10	4/18/2011	36.00	10.55	NP	25.45	513	<0.50	<0.50	6.9	40.0	14.9	<0.50	<0.50	<0.50	<5.0	<250	<1.0	<1.0
14144-10	7/26/2011	36.00	10.74	NP	25.26	169	<0.50	< 0.50	1.4	<1.5	22.9	<0.50	<0.50	<0.50	<5.0	<250	<1.0	<1.0

Gauging Notes:

TOC - Top of Casing

ft - Feet

NP - LNAPL not present

LNAPL - Light non-aqueous phase liquid

* - Corrected for LNAPL if present (assumes LNAPL specific gravity = 0.75)

-- - No information available

NGV - No guidance value

Analytical Notes:

< - Below the laboratory's indicated reporting limit

ug/L - micrograms/liter

TPHg- Total petroleum hydrocarbons as gasoline

MTBE- Methyl tertiary-butyl ether

TBA- Tertiary-butyl alcohol

DIPE- Di-isopropyl ether

ETBE- Ethyl tertiary-butyl ether

TAME- Tertiary-amyl methyl ether

TABLE 3

Historical Groundwater Gradient and Flow Direction Data
76 Service Station No. 6277
15803 East 14th Street
San Leandro, California

Site	Monitoring Date	Groundwater Gradient		Groundwater Flow Direction														
		(feet per foot)	N	NNE	NE	ENE	Е	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW
	04/18/11 07/26/11	0.003 0.004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	07/20/11	0.004	U	U	U	U	U	U	U	U	U	U	U	U	U	U	ı	U
		0.004 Average	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1

Explanation

NA = Not available Number of Events = 60



Appendix A

Previous Investigation and Site History Summary



PREVIOUS INVESTIGATION AND SITE HISTORY SUMMARY

1969. Reported site history indicates the site was first developed as a gas station from an empty lot in 1969.

<u>March 1989</u> - Two 10,000-gallon gasoline USTs, one 550-gallon waste-oil UST, and the product piping were removed from the site during UST replacement activities. Kaprealian Engineering Inc. (KEI) advanced two exploratory borings designated as EB-1 and EB-2 at the site. The borings were advanced at the request of Alameda County to assess the possible presence of hydrocarbon impact to the soil in the vicinity of the proposed UST excavation.

The borings were advanced to depths of 10.5 feet below ground surface (bgs) and 13.5 feet bgs. Ground water was encountered in the borings at depths of 11 to 12 feet bgs. The analytical results of the soil samples were as follows:

- At a depth of 5 feet bgs soil samples analyzed for total petroleum hydrocarbons as gasoline (TPHg) ranged from below the laboratory's indicated reporting limit in boring EB-2 to 2.1 parts per million (ppm) in boring EB-1.
- At a depth of 10 feet bgs TPHg concentrations ranged from 200 ppm in boring EB-1 to 620 ppm in boring EB-2.

Based on results of this preliminary investigation, KEI recommended that the contractor excavate the existing UST excavation to a depth of approximately 13 feet bgs. Water was encountered in the fuel UST excavation at a depth of approximately 11 feet bgs, thus prohibiting the collection of any soil samples from immediately beneath the USTs.

Six soil samples, labeled SW1 through SW6, were collected from the sidewalls of the fuel UST pit at depths of approximately 1 foot above the water table; and one soil sample, labeled W0-1, was collected from beneath the waste-oil UST at a depth of about 10 feet bgs. Based on observations in the field, it was decided to excavate additional soil from three of the four excavation sidewalls.

<u>March 14, 1989</u>: Four trenches were installed to assess the limits of additional soil excavation needed. Four soil samples were then collected at depths of approximately 10 feet bgs. The soil analytical results were as follows:

- In the fuel UST excavation, TPHg concentrations ranged from 24 ppm to 150 ppm.
- A sample collected adjacent to the existing station building indicated that TPHg was present at a concentration of 3,500 ppm.
- The soil sample collected after excavating 2 feet of sidewall toward the station building indicated that TPHg was present at a concentration of 100 ppm.
- Soil sample (SW-2) contained TPHg at a concentration of 390 ppm.
- The soil sample collected from the waste-oil UST excavation (WO-1) contained total oil and grease (TOG) at a concentration of 280 ppm. A side wall sample, SW-7 collected after excavating 14 feet of sidewall contained TOG at a concentration of 41 ppm.

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The analytical results of the water sample (W1) collected from the waste-oil/fuel UST excavation contained TPHg at a concentration of 19,000 parts per billion (ppb) and benzene at a concentration of 230 ppb.

March 23, 1989: KEI returned to the site for pipe trench soil sampling. Six soil samples, labeled P1 through P6, were collected from beneath the product lines at depths of approximately 3 to 3.5 feet below grade. The analytical results of the soil samples P1 through P6 collected from the pipe trenches indicated concentrations of TPHg ranging from 1.1 ppm to 6.8 ppm.

The fuel UST pit and the waste-oil UST pit were over-excavated in order to remove hydrocarbon-impacted soil. The majority of the hydrocarbon-impacted soil appeared to have been removed from the site, except for the capillary fringe in the vicinity of the former UST pit and the building.

<u>May 24, 1989</u>: Four two-inch diameter monitoring wells, MW-1 through MW-4 were installed at the site. The four wells were installed to depths ranging from 24.5 to 25 feet bgs. Ground water was encountered at depths ranging from 11 to 12 feet bgs during drilling.

July 1989: The monitoring and sampling program was initiated.

<u>February 1990</u>: Monitoring well MW-2 was destroyed on February 1 in preparation for additional soil excavation in the vicinity of this well. Soil was excavated to a depth of approximately 6 to 12 inches below the level of the groundwater, which was encountered at a depth of about 11.5 feet below grade. After additional excavation, four soil samples were collected from the sidewalls of the excavation, each approximately 6 to 12 inches above ground water. Soil excavation activities were terminated due to the close proximity of the former and new UST excavations and the site's property line.

The analytical results of three soil samples indicated that TPHg was present at concentrations ranging from 140 ppm to 1,100 ppm, while concentrations of total petroleum hydrocarbons as diesel (TPHd) ranged from below the laboratory's indicated reporting limits to 280 ppm. The analytical results also indicated Environmental Protection Agency (EPA) Method 8010 constituents and TOG from each of the four samples were below the laboratory's indicated reporting limits, except in sample SW11A which contained TOG at a concentration of 210 ppm.

Over-excavation in the vicinity of monitoring well MW-2 was completed in April of 1990. Monitoring well MW-2 was then replaced with a new monitoring well (MW-2A) in March 1991.

<u>1991</u>: Due to the regular occurrence of tetrachloroethene (PCE), trichloroethene (TCE) and 1,2-dichlorethane (1,2-DCA) in sampled groundwater, a review of records documenting historic site activities was performed in 1991 to assess whether there were any up-gradient sources contributing to the impacted groundwater at the site. The file review was conducted by KEI at the Regional Water Quality Control Board (RWQCB).

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The review focused on three sites with monitoring wells located within a half mile of the station. The Okada property, located at 16109 Ashland Avenue, a former USA Petroleum station located at 15120 Hesperian Boulevard, and Kaufman and Broad, located at 1620 162nd Avenue, approximately 1,800 feet east-southeast of the site. The file review is outlined in Delta's *Addendum to Additional Site Assessment Work Plan*, dated April 3, 2009.

<u>December 1992</u>: A file review was conducted at the ACHCSA. Four sites with existing or former USTs were located in the vicinity of the site during the file review. These sites are as follows: 1.) Nayou Properties, 1500 Thrush Avenue; 2.) ABC Auto Repair, 15960 East 14th Street; 3. Petsas Property, 16035 East 14th Street, and; 4.) SpeeDee Oil Change, 15900 East 14th Street.

<u>1991-1993</u>: The California EPA, Department of Toxic Substances Control (DTSC), identified regional chlorinated solvent contamination of the upper aquifer in the San Leandro area.

<u>1993</u>: Based on the results of the site history research, site reconnaissance, and file review, and based upon the fact that no evidence of an on-site solvent source area in the vicinity of monitoring wells MW-3 and MW-4 was found, it was concluded that there was no likely on-site source of the halogenated volatile organic compound (HVOC) impact.

The potential of an off-site HVOC source is further supported by the fact that the highest HVOC concentrations have been reported in samples collected from monitoring wells MW-3 and MW-4, located on the up-gradient side of the site. HVOC concentrations reported in the groundwater samples collected from these monitoring wells are likely coming from a source (E.G. reaching sanitary sewer lines, etc.) up-gradient of the site.

<u>March 1993</u>: Monitoring wells MW-5 and MW-6 were installed on March 9, 1993. These wells were monitored monthly and sampled on a quarterly basis until 1996. Groundwater flow predominantly ranged from southwest to north during the course of the investigation. Chlorinated solvents have consistently been reported in up-gradient wells MW-3 and MW-4, and it appears that the chlorinated solvent impact at the site may be due to an unidentified source (or sources) located up-gradient of the site, or is part of a regional chlorinated solvent plume. The perimeter monitoring wells, MW-5 and MW-6, have historically shown a maximum concentration of 72 micrograms per liter (μ g/L) of TPHg and below the laboratory's indicated reporting limits for benzene, toluene, ethylbenzene, and total xylenes (BTEX).

<u>March 1997</u>: An off-site investigation was conducted in March 1997 to assess any impacts in the down-gradient direction from monitoring well MW-1. Monitoring well MW-1 is the most down-gradient of the wells at the site and has historically contained the highest concentrations of petroleum hydrocarbons in groundwater throughout the duration of the site investigation.

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Three direct push borings (EB-3, EB-4, and EB-5) were advanced through East 14th Street in a northerly transect from the site. The three borings were each advanced to total depths ranging from 11 to 15 feet below grade. Groundwater was encountered at depths ranging from 10.5 to 15 feet bgs during drilling. No reportable target compounds were identified in either soil or groundwater samples.

<u>1998</u> – A *Case Closure Summary* was prepared by the Alameda County Environmental Protection Department. This document concluded that drinking water wells are not affected. It also documented the maximum contaminant concentrations – before and after cleanup as follows:

Contaminant	Soil (ppm)			Water (ppb)	
	Before	After		Before	After
TPHg	3,500	1,100		19,000	510
TPHd	ND	6.2		NA	NA
Benzene	40	8		230	72
Toluene	280	43		79	ND
Xylenes	600	230		1,300	17
Ethyl-benzene	100	37		ND	ND
Methyl tert-butyl ether					
(MTBE)	NA	NA		NA	390
TOG	7,700	1,300		NA	NA
Heavy Metals	NA	NA		NA	NA
Other HVOC TCE	0.063	ND	TCE	4.4	ND
			PCE	110	950
			1,2-DCA	2.8	ND

The *Case Closure Summary* concluded that "there are no known municipal or residential water wells or surface water bodies within 750 feet down-gradient of the subject site that would be impacted by shallow groundwater from this site".

December 2000: The ACHCSA issued a *Case Closure* letter dated December 26, 2000.

2003: Six groundwater monitoring wells (MW-1, MW-2A, and MW-3 through MW-6) destroyed. Groundwater was at 6-11 feet bgs.

<u>September 2007</u>: Six soil borings (ATC-1 through ATC-6) were advanced in the vicinity of the existing fuel and waste-oil USTs and dispensers on September 25 and 26, 2007. The borings were advanced to total depths of

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approximately 20 feet bgs (ATC-2, ATC-3, ATC-4, and ATC-5) and 25 feet bgs (ATC-1 and ATC-6). Groundwater was initially encountered at depths ranging from 14 feet bgs to 24 feet bgs during drilling activities.

Groundwater samples were collected from each of the six borings. A duplicate groundwater sample designated as "Duplicate B-1" was collected from boring ATC-1. Photo ionization detector (PID) readings from the screened soil samples ranged from 1.4 ppm to 2,272 ppm. The analytical results from the ATC Investigation are outlined in Delta's Addendum to Additional Site Assessment Work Plan dated April 3, 2009.

<u>December 2009</u>: Delta advanced six soil borings (B-1 through B-5, and B-7) to assess the extent of petroleum hydrocarbon impact to the soil and groundwater. The borings were advanced to total depths ranging from 24 to 32 feet bgs. First groundwater was encountered at depths ranging from 21 to 28.5 feet bgs during drilling activities.

Soil and groundwater samples were collected from each of the six borings. PID readings from the screened soil samples ranged from 0.2 ppm to 197 ppm. The analytical results indicated that TPHg was present in the soil at a maximum concentration of 603 mg/kg (B-1 at 12 feet) and in the groundwater at a maximum concentration of 2,110 μ g/L (B-1). The analytical results from the December 2009 Investigation are outlined in Delta's *Subsurface Soil and Groundwater Investigation Report* dated March 23, 2010.

<u>April 5, 2011</u>: Antea Group completed a site investigation consisting of the installation of four on-site monitoring wells (MW-7 through MW-10). The results of the investigation are presented in the *Site Investigation Report*, dated July 5, 2011.

SENSITIVE RECEPTORS

<u>1991</u>: The well survey performed by KEI focused on the area within a one-half mile radius of the subject site, and was based upon data obtained from the Alameda County Flood Control and Water Conservation District. The information revealed the presence of 15 producing wells designated as irrigation wells and had depths ranging from 20 to 440 feet bgs.

The Alameda County Flood Control and Water Conservation District records suggested that the status of many of the irrigation wells is unknown. In the 1991 survey, it was stated that "no producing wells that could possibly influence the groundwater flow direction at the subject site were located". The closest irrigation well (148 feet deep) installed in 1949 was noted in the north corner of East 14th Street and 159th Avenue.

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2008: This survey entailed a request to the California Department of Water Resources (DWR) office in Sacramento to provide well log records. DWR well log records were reviewed in order to assess the location of any water-supply wells in the vicinity of the subject site. Using the DWR well logs, a total of five wells had verifiable addresses within a half-mile radius of the site.

Stains and spills have been documented at the adjacent site to the east, SpeeDee Oil Change shop, located at 15900 East 14th Street, including staining from leaking automobiles, spills not cleaned up immediately, a spill migrating toward a storm drain inlet, a spill in the driveway not cleaned up, and a spill beneath the waste-oil UST was not appropriately addressed. Moreover, it is documented that solvents were used at this adjacent site in 1993 and based on that site history; it appears that solvents have been used at that site for decades.

Current Consultant: Antea Group

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

and bailers.

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

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

DISSOLVED OXYGEN READINGS

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

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

OXYIDATON REDUCTION POTENTIAL READINGS

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



Appendix C

Blaine Tech Services Groundwater Sampling Field Data Sheets

Well-Head Inspection & Well Gauging Form														
Antea Group Project No: 256277 Site Address: 15803 E 14th St. San Leandon														
field	Field Technician: Patrick Herry / Blains Ted Date: 7/2/1													
(Print Full Name & Company*) Well Condition											<u> </u>			
Sample Order	Field Point	Bolts	Seal	Lid Secure	Lock	Expanding Cap	Water in Well Box	Well Casing Dia.	Time Gauged	Depth to Water (Feet)	Depth to Bottom (Feet)	Depth to LNAPL (Feet)	LNAPL Thickness (Feet)	Comments
	144-7	6	6	G		6-	G	2	1238	9.43	12.82			
Z	<u> </u>	G	Gn	G	6_	G	G,	2	(229	9,42	19.62			
A PARTY	MW-9	G	Cin	Gr		6	G	<u> 2 </u>	いしなみ	9.5s	2392			
3	ANN-10	G	Cn	G	G	Á	Ä	2	1233	10.74	19.64			
Vote	otes:										** All well caps opened at least 15 minutes or longer before gauging wells CIRCLE ONE: ES or NO**			



Groundwater Sampling For										
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Project No	25627		3	eld Technician:	1					
Field Point	- ww-	?		Date:	I _					
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Low-Flow (3 casing volumes) Other:		Electric Su Peristal	ble Bailer ubmersible tic Pump er Pump		Disposable Bailer W/ BV Extraction Port Dedicated Tubing Disposable Tubing Other:					
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Casing Volume (gal):					1.4					
Conversion Factors					- T					
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Time	Tĕmp (°C)	рН	Conductivity (µS/cm)	ORP (mV)	Turbidity (NTU)	D.O. (mg/L)	Volume Purged (gal)	Water Level (for Low-Flow only)		
Pre-Purge					, ,					
1409	20.91	7.86	1328	417.3	2 000	0.53	946			
1410	20:65	7.86	1307	50.7	21000	0.48	2			
1647	20.59	7.86	1306	53.0	652	0.45	3			
1412	20.54	7.35	1307	53.9	437	0.45	4			
1413	20.51	7.85	1306	53.7	286	0.48	5			
1414	20.48	7.52	1306	S fil	208	0.44	6			

Post-Purge										
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Other Comments:		e 11.31 Riged through Flow cell								
Sample Info:										
Sample ID:	<u>w-7</u>	.2011.073	Sample Date and Time: 7/26/11 14/20							
Selected Analysis: See COC										
This form was provided by Antea Group and completed by: (Print Full Name) Ratrick Harm , an employee of Blaine Tech Services, Inc.										
Signature:										
antea group Antea MGroup, 1-800-477-7411		LNAPL = light non-aqueous phase liquids bgs = below ground surface ORP = Oxidation-Reduction Potential D.O. = dissolved oxygen ORD = Quidation NTU = Nephelometric Turbidity Units MV = millivolts								

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		Ground	water S	ampling	For					
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Post-Purge						***************************************				
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anteagroup	bgs = below ground surface temp = temperature ORP = Oxidation-Reduction Potential NTU = Nephelometric Turbidity Units D O = disselved everyon my/s = millipolits									

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

temp = temperature NTU = Nephelometric Turbidity Units mV = millivolts

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Pre-Purge								
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1349	21.00	7.34	1316	44,3	913	0.35	5	
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anteagroup		bgs = below grou ORP = Oxidation-	nd surface	·	temp = temperat NTU = Nephelom		nits	
ntea ⁷³⁴ Group 1-800-477-7411		OAF - OXIOSUIII- D A = dissolved d			mV = millivoite	care rarbiolog O		

Page _____ of ____



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#

3Q 2011 GW Event

Required Lab Information:	Required Project Information:		Required Invoice I	oformation:								
Lab Name: Pace-Seattle	Site ID #: 256277 Task:	WG_Q_201107	Send Invoice to:	Tara Bosch					٦			
Address:	AnteaGrp proj# 140256277	<u> </u>	Address: 11050 V	L Vhite Rock Road Su	uite 110		· · · · · · · · · · · · · · · · · · ·		Turn around time (da	T (aur	10	
940 S. Harney Street Sealtle WA 98108	Site Address 15803 East 141	h Street	City/State	Rancho Cordova	CA 95670	Phone #: 916-503-	-1267		QC level Required: 8		Special	Mark
Lab PM: Regina Ste. Marie	City San Leandro Si	ate CA	Reimbursement pro)ject?	Non-rein	bursement project?	A	vlark one	NJ Reduced Delivera		1	ļ
Phone/Fax: P: 206-957-2433 F: 206-767-5063	AG PM Name: Dennis			T	<u></u>	<u></u>	Υ		MA MCP Cert?		_	
Lab PM email Regina SteMarie@pacelabs.com		Dettloff 1 F: 916-638-8385	Send EDD to CC Hardcopy re	copeltdata@intelli	gentehs.co	om				CT RC	P Cent?	Mark (
Applicable Lab Quote #:		tloff@anteagroup.com	CC Hardcopy re	•					Lab Project ID (lab	use)	, , , , , , , , , , , , , , , , , , , 	·
SAMPLE ID One Character per box. (A-Z, 0-9 / ,-) Samples IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX MATRIX DEPENDING WATER WO VALIDE CRUSHOWATER WO VALIDE CRUSHOWATER WO WATER WASTEWATER WO WATER OIL	MATRIX CODE SAMPLE TYPE G=GRAB C=COMP	SAMPLE DATE	SAMPLE TIME	#OF CONTAINERS	FIELD FILTERED? (Y/M) Unpreserved H-504 HNO5, 3	reservatio	Na ₂ S ₂ O ₃ SS Methanol SS Other	Requested / Analyses			Comments/Lab Sample I.D.
MW-10_20110731		wg	7/26/1	1385	6	N	X		x x		Oxy's	= MTBE, DIPE,
2 MW-7_20110731		wg		1420	6	4	X		x x			, TAME, TBE,
3 MW-8_20110731		WG		1330	6		X		x x		Ethan	ol, 1,2DCIA, and
MW-9_20110731		wg		1300	10	}{}	\mathbf{x}	++	x x		LEDD)-11-1/1
5												
Additional Comments/Special Instructions;		RELINQUISHED BY	/ AFFILIATION	DATE	TIME	ACCEPTED BY / AFI	FILIATIO	N.	DATE TI	ME San	nple Rece	ipt Conditions
Global ID: T0619718179			,	7/54/5							Y/N Y/N Y/N Y/N	Y/N Y/ Y/N Y/ Y/N Y/ Y/N Y/
	NAC THE STATE OF T	SHIPPING METHO UPS COURIER US MAIL	FEDEX PRINT Nar	\$	₹.	EAND SIGNATURE	DATE	Signed	Time: 1600		Temp in °C Samples on fce?	l Z

TEST EQUIPMENT CALIBRATION LOG

INOJECTNA	WE 15803 E	14th st Sow	Leado	PROJECT NU	MBER (10726-P4)		
EQUIPMENT VAME	EQUIPMENT NUMBER	DATE/TIME OF TEST	STANDARDS USED	EQUIPMENT READING	CALIBRATED TO: OR WITHIN 10%:	TEMP.	INITIAL O
751 556	098122592	7/26/	PH7.00 16.00 4.00	7,20 (0,00 4,00	× 1070.	1 1 1	INITIALS
			Sondwelling 3900 wolum	3900	V		77
			028 234.0 po 100%	234.0	V	22.20	PH
					-		
				e' .			
							, , , , , , , , , , , , , , , , , , ,
					·		

Quarterly Summary Report, Third Quarter 2011 76 Service Station No. 6277 San Leandro, CA Antea Group Project No. 140256277



Appendix D

Certified Laboratory Analytical Report and Data Validation Form

Is the Data Set Valid? (circle) Yes / No

Preservation Temperature

(if Known): 4.9 °C

Antea[™]Group Laboratory Data Validation Sheet

Pr	oject/Client: 76 Service Station No. 6277			
Pr	oject #:	_	rcle	\mathcal{I}
	te of Validation: $\frac{8/3}{1/11}$ Date of Analysis: $\frac{8/5/11}{1/11}$	High		nt
Sa	mple Date: 7/26/11 Completed By: ETD	Yes	y I	No
	Signature:		-	
		(be	low)
An	alytical Lab Used and Report # (if any): Pace #: 258658			
1.	Were the analyses the ones requested?	Yes	1	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/m³,etc.)	Yes		No
7.	Were appropriate Matrix Spike (MS) and Matrix Spike Duplicate (MSD) samples included in the laboratory batch sample?	Yes	/	No
8.	In lieu of MS/ MSD, were surrogate spike (SS) or surrogate spike duplicate (SSD) samples included in the laboratory batch samples?	Yes	/	No
9.	Were MS/ MSD (or SS/SSD) within the acceptable range of % recovery (i.e., approximately 80-120%, depending on the analyte)?	Yes	1	No
10.	Were MS/MSD (or SS/SSD) values used to calculate Relative Percent Difference (RPD)?	Yes	1	No
11.	Were Relative Percent Difference values within the acceptable range (i.e. $\pm 25\%$)?	Yes /	•	No

If any answer is no, explain why and what corrective action was taken (use additional sheet(s), as necessary:

Qualifier > In: GRO result for this sample did not mater

pattern of the laboratory standard for gasoline.

This is likely due to the presence of

tetrachloroethene in the sample. (MW-10, MW-8)





August 11, 2011

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

RE: Project: 256277

Pace Project No.: 258658

Dear Dennis Dettloff:

Enclosed are the analytical results for sample(s) received by the laboratory on July 28, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerely,

Regina Se. Marie

Regina SteMarie

regina.stemarie@pacelabs.com Project Manager

Enclosures

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





CERTIFICATIONS

Project:

256277

Pace Project No.:

258658

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

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





SAMPLE ANALYTE COUNT

Project:

256277

Pace Project No.:

258658

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
258658001	MW-10_20110731	EPA 5030B/8260	LPM	16	PASI-S
		CA LUFT	LPM	2	PASI-S
258658002	MW-7_20110731	EPA 5030B/8260	CC	16	PASI-S
		CA LUFT	cc	2	PASI-S
258658003	MW-8_20110731	EPA 5030B/8260	LPM	16	PASI-S
		CA LUFT	LPM	2	PASI-S
258658004	MW-9_20110731	EPA 5030B/8260	cc	16	PASI-S
		CALUFT	CC	2	PASI-S

08/05/11 12:20

0.50 08/05/11 20:15 50.0 08/05/11 20:15

50.0



HITS ONLY

Project: 256277 Pace Project No.: 258658

CALUFT

258658004

CALUFT

EPA 5030B/8260

Lab Sample ID Client Sample ID Method **Parameters** Result Units Report Limit Analyzed Qualifiers 258658001 MW-10_20110731 EPA 5030B/8260 Ethylbenzene 1.4 ug/L 08/05/11 10:59 EPA 5030B/8260 Methyl-tert-butyl ether 22.9 ug/L 0.50 08/05/11 10:59 **CALUFT** TPH-Gasoline (C05-C12) 169 ug/L 50.0 08/05/11 10:59 258658002 MW-7_20110731 0.50 08/06/11 00:15 EPA 5030B/8260 27.3 ug/L Benzene 08/06/11 00:15 EPA 5030B/8260 Ethylbenzene 66.4 ug/L 0.50 EPA 5030B/8260 Methyl-tert-butyl ether 102 ug/L 0.50 08/06/11 00:15 EPA 5030B/8260 18.9 ug/L 0.50 08/06/11 00:15 Toluene EPA 5030B/8260 Xylene (Total) 341 ug/L 08/06/11 00:15 1.5 **CALUFT** TPH-Gasoline (C05-C12) 1770 ug/L 50.0 08/06/11 00:15 MW-8_20110731 258658003 EPA 5030B/8260 4.0 ug/L 0.50 08/05/11 12:20 Benzene EPA 5030B/8260 08/05/11 12:20 Methyl-tert-butyl ether 42.7 ug/L 0.50

336 ug/L

1.7 ug/L

176 ug/L

TPH-Gasoline (C05-C12)

Methyl-tert-butyl ether

TPH-Gasoline (C05-C12)

MW-9_20110731



ANALYTICAL RESULTS

Project: 256277
Pace Project No.: 258658

Sample: MW-10_20110731	Lab ID: 258	658001	Collected: 07/26/	11 13:55	Received: (07/28/11 09:15	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
8260 MSV	Analytical Met	hod: EPA 50	030B/8260					
tert-Amylmethyl ether	ND ug	/L	0.50	1		08/05/11 10:59	994-05-8	
Benzene	ND ug	/L	0.50	1		08/05/11 10:59	71-43-2	
tert-Butyl Alcohol	ND ug	ı/L	5.0	1		08/05/11 10:59	75-65-0	
1,2-Dibromoethane (EDB)	ND ug	ı/L	1.0	1		08/05/11 10:59	106-93-4	
1,2-Dichloroethane	ND ug	/L	1.0	1		08/05/11 10:59	107-06-2	
Diisopropyl ether	ND ug	/L	0.50	1		08/05/11 10:59		
Ethanol	ND ug		250	1		08/05/11 10:59		
Ethylbenzene	1.4 ug	/L	0.50	1		08/05/11 10:59	100-41-4	
Ethyl-tert-butyl ether	ND ug		0.50	1		08/05/11 10:59		
Methyl-tert-butyl ether	22.9 ug		0.50	1		08/05/11 10:59		
Toluene	ND ug		0.50	1		08/05/11 10:59		
Xylene (Total)	ND ug		1.5	1		08/05/11 10:59		
4-Bromofluorobenzene (S)	99 %	· -	79-121	1		08/05/11 10:59		
Dibromofluoromethane (S)	96 %		81-119	1		08/05/11 10:59		
1,2-Dichloroethane-d4 (S)	98 %		72-127	1		08/05/11 10:59		
Toluene-d8 (S)	103 %		77-120	1		08/05/11 10:59		
, ,				1		00/03/11 10.59	2037-20-3	
CA LUFT MSV GRO	Analytical Meth							
TPH-Gasoline (C05-C12)	169 ug	/L	50.0	1		08/05/11 10:59		1n
4-Bromofluorobenzene (S)	99 %		76-121	1		08/05/11 10:59	460-00-4	
Sample: MW-7_20110731	Lab ID: 258	658002	Collected: 07/26/1	1 14:20	Received: 0	7/28/11 09:15 N	// Matrix: Water	
Sample: MW-7_20110731 Parameters	Lab ID: 258	658002 Units	Collected: 07/26/1	1 14:20 DF	Received: 0	7/28/11 09:15 M Analyzed	Matrix: Water CAS No.	Qual
Parameters		Units	Report Limit					Qual
Parameters 3260 MSV	Results	Units nod: EPA 50	Report Limit				CAS No.	Qual
Parameters 3260 MSV ert-Amylmethyl ether	Results Analytical Metr	Units nod: EPA 50	Report Limit	DF		Analyzed	CAS No.	Qual
Parameters 3260 MSV ert-Amylmethyl ether Benzene	Results Analytical Metr	Units nod: EPA 50 /L /L	Report Limit 30B/8260 0.50	DF 1		Analyzed 08/06/11 00:15	CAS No. 994-05-8 71-43-2	Qual
Parameters 3260 MSV ert-Amylmethyl ether Benzene ert-Butyl Alcohol	Results Analytical Metr ND ug 27.3 ug	Units nod: EPA 50 /L /L	Report Limit 30B/8260 0.50 0.50	DF 1 1		Analyzed 08/06/11 00:15 08/06/11 00:15	CAS No. 994-05-8 71-43-2 75-65-0	Qual
Parameters 3260 MSV ert-Amylmethyl ether Benzene ert-Butyl Alcohol 1,2-Dibromoethane (EDB)	Results Analytical Metr ND ug 27.3 ug ND ug ND ug	Units ood: EPA 50 /L /L /L	Report Limit 30B/8260 0.50 0.50 5.0	DF 1 1 1 1		Analyzed 08/06/11 00:15 08/06/11 00:15 08/06/11 00:15	994-05-8 71-43-2 75-65-0 106-93-4	Qual
Parameters 3260 MSV ert-Amylmethyl ether Benzene ert-Butyl Alcohol 1,2-Dibromoethane (EDB) 1,2-Dichloroethane	Results Analytical Metronomy ND ug 27.3 ug ND ug ND ug ND ug ND ug	Units nod: EPA 50 //L //L //L //L	Report Limit 30B/8260 0.50 0.50 5.0 1.0	DF 1 1 1 1		Analyzed 08/06/11 00:15 08/06/11 00:15 08/06/11 00:15 08/06/11 00:15	994-05-8 71-43-2 75-65-0 106-93-4 107-06-2	Qual
Parameters 3260 MSV ert-Amylmethyl ether Benzene ert-Butyl Alcohol 1,2-Dibromoethane (EDB) 1,2-Dichloroethane Diisopropyl ether	Results Analytical Method ND ug 27.3 ug ND ug ND ug ND ug ND ug ND ug	Units nod: EPA 50 /L /L /L /L /L /L /L	Report Limit 30B/8260 0.50 0.50 5.0 1.0 1.0 0.50	DF 1 1 1 1 1 1		Analyzed 08/06/11 00:15 08/06/11 00:15 08/06/11 00:15 08/06/11 00:15 08/06/11 00:15	994-05-8 71-43-2 75-65-0 106-93-4 107-06-2 108-20-3	Qual
Parameters 3260 MSV ert-Amylmethyl ether Benzene ert-Butyl Alcohol 1,2-Dibromoethane (EDB) 1,2-Dichloroethane Diisopropyl ether Ethanol	Results Analytical Metronomy ND ug 27.3 ug ND ug ND ug ND ug ND ug ND ug ND ug	Units nod: EPA 50 /L /L /L /L /L /L /L /L /L	Report Limit 30B/8260 0.50 0.50 1.0 1.0 0.50 250	DF 1 1 1 1 1 1 1 1 1 1		Analyzed 08/06/11 00:15 08/06/11 00:15 08/06/11 00:15 08/06/11 00:15 08/06/11 00:15 08/06/11 00:15	994-05-8 71-43-2 75-65-0 106-93-4 107-06-2 108-20-3 64-17-5	Qual
Parameters 3260 MSV ert-Amylmethyl ether Benzene ert-Butyl Alcohol 1,2-Dibromoethane (EDB) 1,2-Dichloroethane Diisopropyl ether Ethanol Ethylbenzene	Results Analytical Method ND ug 27.3 ug ND ug	Units nod: EPA 50 /L /L /L /L /L /L /L /L /L /	Report Limit 30B/8260 0.50 0.50 1.0 1.0 0.50 250 0.50	DF 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Analyzed 08/06/11 00:15 08/06/11 00:15 08/06/11 00:15 08/06/11 00:15 08/06/11 00:15 08/06/11 00:15 08/06/11 00:15	994-05-8 71-43-2 75-65-0 106-93-4 107-06-2 108-20-3 64-17-5 100-41-4	Qual
Parameters 8260 MSV ert-Amylmethyl ether Benzene ert-Butyl Alcohol 1,2-Dibromoethane (EDB) 1,2-Dichloroethane Diisopropyl ether Ethanol Ethylbenzene Ethyl-tert-butyl ether	Results Analytical Metronomy ND ug.	Units nod: EPA 50 /L /L /L /L /L /L /L /L /L /	Report Limit 30B/8260 0.50 0.50 1.0 1.0 0.50 250 0.50 0.50	DF 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Analyzed 08/06/11 00:15 08/06/11 00:15 08/06/11 00:15 08/06/11 00:15 08/06/11 00:15 08/06/11 00:15 08/06/11 00:15 08/06/11 00:15	994-05-8 71-43-2 75-65-0 106-93-4 107-06-2 108-20-3 64-17-5 100-41-4 637-92-3	Qual
Parameters 3260 MSV ert-Amylmethyl ether Benzene ert-Butyl Alcohol 1,2-Dibromoethane (EDB) 1,2-Dichloroethane Diisopropyl ether Ethanol Ethylbenzene Ethyl-tert-butyl ether Methyl-tert-butyl ether	Results Analytical Metr ND ug. 27.3 ug. ND ug. 102 ug.	Units nod: EPA 50 /L /L /L /L /L /L /L /L /L /	Report Limit 30B/8260 0.50 0.50 5.0 1.0 1.0 0.50 250 0.50 0.50 0.50	DF 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Analyzed 08/06/11 00:15 08/06/11 00:15 08/06/11 00:15 08/06/11 00:15 08/06/11 00:15 08/06/11 00:15 08/06/11 00:15 08/06/11 00:15 08/06/11 00:15	994-05-8 71-43-2 75-65-0 106-93-4 107-06-2 108-20-3 64-17-5 100-41-4 637-92-3 1634-04-4	Qual
Parameters 3260 MSV ert-Amylmethyl ether Benzene ert-Butyl Alcohol 1,2-Dibromoethane (EDB) 1,2-Dichloroethane Diisopropyl ether Ethanol Ethyl-tert-butyl ether Methyl-tert-butyl ether Toluene	Results Analytical Metr ND ug. 27.3 ug. ND ug. 102 ug. 18.9 ug.	Units nod: EPA 50 /L /L /L /L /L /L /L /L /L /	Report Limit 30B/8260 0.50 0.50 5.0 1.0 0.50 250 0.50 0.50 0.50 0.50	DF 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Analyzed 08/06/11 00:15 08/06/11 00:15 08/06/11 00:15 08/06/11 00:15 08/06/11 00:15 08/06/11 00:15 08/06/11 00:15 08/06/11 00:15 08/06/11 00:15 08/06/11 00:15	994-05-8 71-43-2 75-65-0 106-93-4 107-06-2 108-20-3 64-17-5 100-41-4 637-92-3 1634-04-4 108-88-3	Qual
Parameters 3260 MSV ert-Amylmethyl ether Benzene ert-Butyl Alcohol 1,2-Dibromoethane (EDB) 1,2-Dichloroethane Diisopropyl ether Ethanol Ethylbenzene Ethyl-tert-butyl ether Methyl-tert-butyl ether Toluene (Yelne (Total)	Results Analytical Metr ND ug. 27.3 ug. ND ug. ND ug. ND ug. ND ug. ND ug. ND ug. 102 ug. 18.9 ug. 341 ug.	Units nod: EPA 50 /L /L /L /L /L /L /L /L /L /	Report Limit 30B/8260 0.50 0.50 5.0 1.0 0.50 250 0.50 0.50 0.50 0.50 1.5	DF 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Analyzed 08/06/11 00:15 08/06/11 00:15 08/06/11 00:15 08/06/11 00:15 08/06/11 00:15 08/06/11 00:15 08/06/11 00:15 08/06/11 00:15 08/06/11 00:15 08/06/11 00:15 08/06/11 00:15	994-05-8 71-43-2 75-65-0 106-93-4 107-06-2 108-20-3 64-17-5 100-41-4 637-92-3 1634-04-4 108-88-3 1330-20-7	Qual
Parameters 3260 MSV ert-Amylmethyl ether Benzene ert-Butyl Alcohol 1,2-Dibromoethane (EDB) 1,2-Dichloroethane Diisopropyl ether Ethanol Ethylbenzene Ethyl-tert-butyl ether Methyl-tert-butyl ether Toluene Kylene (Total) 1-Bromofluorobenzene (S)	Results Analytical Metr ND ug. 27.3 ug. ND ug. ND ug. ND ug. ND ug. ND ug. 102 ug. 18.9 ug. 341 ug. 99 %	Units nod: EPA 50 /L /L /L /L /L /L /L /L /L /	Report Limit 30B/8260 0.50 0.50 5.0 1.0 0.50 250 0.50 0.50 0.50 0.50 1.5 79-121	DF 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Analyzed 08/06/11 00:15 08/06/11 00:15 08/06/11 00:15 08/06/11 00:15 08/06/11 00:15 08/06/11 00:15 08/06/11 00:15 08/06/11 00:15 08/06/11 00:15 08/06/11 00:15 08/06/11 00:15 08/06/11 00:15 08/06/11 00:15 08/06/11 00:15	994-05-8 71-43-2 75-65-0 106-93-4 107-06-2 108-20-3 64-17-5 100-41-4 637-92-3 1634-04-4 108-88-3 1330-20-7 460-00-4	Qual
Parameters 3260 MSV Sert-Amylmethyl ether Benzene Sert-Butyl Alcohol 1,2-Dibromoethane (EDB) 1,2-Dichloroethane Diisopropyl ether Ethanol Ethyl-tert-butyl ether Methyl-tert-butyl ether Foluene Kylene (Total) 1-Bromofluorobenzene (S) Dibromofluoromethane (S)	Results Analytical Metr ND ug. 27.3 ug. ND ug. ND ug. ND ug. ND ug. ND ug. 102 ug. 18.9 ug. 341 ug. 99 %	Units nod: EPA 50 /L /L /L /L /L /L /L /L /L /	Report Limit 30B/8260 0.50 0.50 5.0 1.0 0.50 250 0.50 0.50 0.50 0.50 1.5 79-121 81-119	DF 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Analyzed 08/06/11 00:15 08/06/11 00:15 08/06/11 00:15 08/06/11 00:15 08/06/11 00:15 08/06/11 00:15 08/06/11 00:15 08/06/11 00:15 08/06/11 00:15 08/06/11 00:15 08/06/11 00:15 08/06/11 00:15 08/06/11 00:15 08/06/11 00:15	994-05-8 71-43-2 75-65-0 106-93-4 107-06-2 108-20-3 64-17-5 100-41-4 637-92-3 1634-04-4 108-88-3 1330-20-7 460-00-4 1868-53-7	Qua
Parameters 3260 MSV tert-Amylmethyl ether Benzene tert-Butyl Alcohol 1,2-Dibromoethane (EDB) 1,2-Dichloroethane Diisopropyl ether Ethanol Ethylbenzene Ethyl-tert-butyl ether Methyl-tert-butyl ether Foluene Kylene (Total) 1-Bromofluorobenzene (S) Dibromofluoroethane-d4 (S)	Results Analytical Metr ND ug. 27.3 ug. ND ug. ND ug. ND ug. ND ug. ND ug. 102 ug. 18.9 ug. 341 ug. 99 % 99 % 102 %	Units nod: EPA 50 /L /L /L /L /L /L /L /L /L /	Report Limit 30B/8260 0.50 0.50 5.0 1.0 0.50 250 0.50 0.50 0.50 0.50 1.5 79-121 81-119 72-127	DF 1		Analyzed 08/06/11 00:15 08/06/11 00:15 08/06/11 00:15 08/06/11 00:15 08/06/11 00:15 08/06/11 00:15 08/06/11 00:15 08/06/11 00:15 08/06/11 00:15 08/06/11 00:15 08/06/11 00:15 08/06/11 00:15 08/06/11 00:15 08/06/11 00:15 08/06/11 00:15 08/06/11 00:15	994-05-8 71-43-2 75-65-0 106-93-4 107-06-2 108-20-3 64-17-5 100-41-4 637-92-3 1634-04-4 108-88-3 1330-20-7 460-00-4 1868-53-7 17060-07-0	Qual
Parameters 8260 MSV tert-Amylmethyl ether Benzene ert-Butyl Alcohol 1,2-Dichloroethane (EDB) 1,2-Dichloroethane Diisopropyl ether Ethanol Ethylbenzene Ethyl-tert-butyl ether Methyl-tert-butyl ether foluene Kylene (Total) 1-Bromofluorobenzene (S) Dibromofluoroethane-d4 (S) Foluene-d8 (S)	Results Analytical Metr ND ug 27.3 ug ND ug ND ug ND ug ND ug ND ug 102 ug 18.9 ug 341 ug 99 % 102 % 106 %	Units Oct EPA 50 /L //L //L //L //L //L //L	Report Limit 30B/8260 0.50 0.50 1.0 1.0 0.50 250 0.50 0.50 0.50 0.50 1.5 79-121 81-119 72-127 77-120	DF 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Analyzed 08/06/11 00:15 08/06/11 00:15 08/06/11 00:15 08/06/11 00:15 08/06/11 00:15 08/06/11 00:15 08/06/11 00:15 08/06/11 00:15 08/06/11 00:15 08/06/11 00:15 08/06/11 00:15 08/06/11 00:15 08/06/11 00:15 08/06/11 00:15	994-05-8 71-43-2 75-65-0 106-93-4 107-06-2 108-20-3 64-17-5 100-41-4 637-92-3 1634-04-4 108-88-3 1330-20-7 460-00-4 1868-53-7 17060-07-0	Qual
	Results Analytical Metr ND ug. 27.3 ug. ND ug. ND ug. ND ug. ND ug. ND ug. 102 ug. 18.9 ug. 341 ug. 99 % 99 % 102 %	Units Oct EPA 50 /L //L //L //L //L //L //L	Report Limit 30B/8260 0.50 0.50 1.0 1.0 0.50 250 0.50 0.50 0.50 0.50 1.5 79-121 81-119 72-127 77-120	DF 1		Analyzed 08/06/11 00:15 08/06/11 00:15 08/06/11 00:15 08/06/11 00:15 08/06/11 00:15 08/06/11 00:15 08/06/11 00:15 08/06/11 00:15 08/06/11 00:15 08/06/11 00:15 08/06/11 00:15 08/06/11 00:15 08/06/11 00:15 08/06/11 00:15 08/06/11 00:15 08/06/11 00:15	994-05-8 71-43-2 75-65-0 106-93-4 107-06-2 108-20-3 64-17-5 100-41-4 637-92-3 1634-04-4 108-88-3 1330-20-7 460-00-4 1868-53-7 17060-07-0	Qual

Date: 08/11/2011 01:39 PM

REPORT OF LABORATORY ANALYSIS



ANALYTICAL RESULTS

Project:	256277
Pace Project No.:	258658

Pace Project No.: 258658								
Sample: MW-7_20110731	Lab ID: 258	658002	Collected: 07/26/	11 14:20	Received:	07/28/11 09:15	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
CA LUFT MSV GRO	Analytical Met	hod: CALL	IFT					
4-Bromofluorobenzene (S)	99 %		76-121	1		08/06/11 00:1	5 460-00-4	
Sample: MW-8_20110731	Lab ID: 258	658003	Collected: 07/26/	11 13:30	Received:	07/28/11 09:15	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Met	hod: EPA 5	030B/8260					
tert-Amylmethyl ether	ND ug	ı/L	0.50	1		08/05/11 12:2	0 994-05-8	
Benzene	4.0 ug	/L	0.50	1		08/05/11 12:2	0 71-43-2	
tert-Butyl Alcohol	ND ug	/L	5.0	1		08/05/11 12:2	0 75-65-0	
1,2-Dibromoethane (EDB)	ND ug	/L	1.0	1		08/05/11 12:2	0 106-93-4	
1,2-Dichloroethane	ND ug	/L	1.0	1		08/05/11 12:2	0 107-06-2	
Diisopropyl ether	ND ug	/L	0.50	1		08/05/11 12:2	0 108-20-3	
Ethanol	ND ug	/L	250	1		08/05/11 12:2	0 64-17-5	
Ethylbenzene	ND ug		0.50	1		08/05/11 12:2	0 100-41-4	
Ethyl-tert-butyl ether	ND ug		0.50	1		08/05/11 12:2		
Methyl-tert-butyl ether	42.7 ug		0.50	1		08/05/11 12:2	0 1634-04-4	
Toluene	ND ug		0.50	1		08/05/11 12:2		
Xylene (Total)	ND ug		1.5	1		08/05/11 12:2		
4-Bromofluorobenzene (S)	98 %	· -	79-121	1		08/05/11 12:2		
Dibromofluoromethane (S)	98 %		81-119	1		08/05/11 12:2		
1,2-Dichloroethane-d4 (S)	103 %		72-127	1			0 17060-07-0	
Toluene-d8 (S)	105 %		77-120	1		08/05/11 12:2		
CA LUFT MSV GRO	Analytical Met	nod: CALLI		•		00,00,11 72.2	0 200, 20 0	
	-						•	.
TPH-Gasoline (C05-C12)	336 ug	/L	50.0	1		08/05/11 12:2		1n
4-Bromofluorobenzene (S)	98 %		76-121	1		08/05/11 12:2	0 460-00-4	
Sample: MW-9_20110731	Lab ID: 258	658004	Collected: 07/26/1	1 13:00	Received: 0	07/28/11 09:15	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Meth	od: EPA 50	030B/8260					
tert-Amylmethyl ether	ND ug	/L	0.50	1		08/05/11 20:1:	5 994-05-8	
Benzene	ND ug	/L	0.50	1		08/05/11 20:1:	5 71-43-2	
tert-Butyl Alcohol	ND ug		5.0	1		08/05/11 20:1	5 75-65-0	
1,2-Dibromoethane (EDB)	ND ug		1.0	1		08/05/11 20:1:	5 106-93-4	
1,2-Dichloroethane	ND ug	/L	1.0	1		08/05/11 20:1:	5 107-06-2	
Diisopropyl ether	ND ug		0.50	1		08/05/11 20:1:	5 108-20-3	
Ethanol	ND uga		250	1		08/05/11 20:1:	5 64-17-5	
Latarior	-		0.50	1		08/05/11 20:1:	5 100-41-4	
	ND ua	'L	0.50					
Ethylbenzene	ND uga ND uga		0.50	1		08/05/11 20:1		
Ethylbenzene Ethyl-tert-butyl ether Methyl-tert-butyl ether	ND ug _i ND ugi 1.7 ugi	/L				08/05/11 20:1: 08/05/11 20:1:	5 637-92-3	

Date: 08/11/2011 01:39 PM

REPORT OF LABORATORY ANALYSIS



ANALYTICAL RESULTS

Project:

256277

Pace Project No.: 258658

Sample: MW-9_20110731	Lab ID: 258658004		Collected: 07/26/1	Collected: 07/26/11 13:00		Received: 07/28/11 09:15		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 5030		030B/8260						
Xylene (Total)	ND ug	/L	1.5	1		08/05/11 20:15	1330-20-7	
4-Bromofluorobenzene (S)	100 %		79-121	1		08/05/11 20:15	460-00-4	
Dibromofluoromethane (S)	99 %		81-119	1		08/05/11 20:15	1868-53-7	
1,2-Dichloroethane-d4 (S)	104 %		72-127	1		08/05/11 20:15	17060-07-0	
Toluene-d8 (S)	103 %		77-120	1		08/05/11 20:15	2037-26-5	
CA LUFT MSV GRO	Analytical Meth	nod: CA LUI	-т					
TPH-Gasoline (C05-C12)	176 ug	/L	50.0	1		08/05/11 20:15		
4-Bromofluorobenzene (S)	100 %		76-121	1		08/05/11 20:15	460-00-4	





Project:

256277

Pace Project No.:

258658

QC Batch:

MSV/5058

Analysis Method:

EPA 5030B/8260

QC Batch Method:

EPA 5030B/8260

Analysis Description:

8260 MSV Water 10 mL Purge

Associated Lab Samples:

258658001, 258658003

METHOD BLANK: 80852

Matrix: Water

Associated Lab Samples:

258658001, 258658003

Associated Lab Samples:	258658001, 258658003				
		Blank	Reporting		
Parameter	Units	Result	Limit	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND .	1.0	08/05/11 07:19	
1,2-Dichloroethane	ug/L	ND	1.0	08/05/11 07:19	
Benzene	ug/L	ND	0.50	08/05/11 07:19	
Diisopropyl ether	ug/L	ND	0.50	08/05/11 07:19	
Ethanol	ug/L	ND	250	08/05/11 07:19	
Ethyl-tert-butyl ether	ug/L	ND	0.50	08/05/11 07:19	
Ethylbenzene	ug/L	ND	0.50	08/05/11 07:19	
Methyl-tert-butyl ether	ug/L	ND	0.50	08/05/11 07:19	
tert-Amylmethyl ether	ug/L	ND	0.50	08/05/11 07:19	
tert-Butyl Alcohol	ug/L	ND	5.0	08/05/11 07:19	
Toluene	ug/L	ND	0.50	08/05/11 07:19	
Xylene (Total)	ug/L	ND	1.5	08/05/11 07:19	
1,2-Dichloroethane-d4 (S)	%	97	72-127	08/05/11 07:19	
4-Bromofluorobenzene (S)	%	100	79-121	08/05/11 07:19	
Dibromofluoromethane (S)	%	96	81-119	08/05/11 07:19	
Toluene-d8 (S)	%	104	77-120	08/05/11 07:19	

LABORATORY CONTROL SAMPLE:	81152					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	20	15.8	79	65-123	
1,2-Dichloroethane	ug/L	20	17.8	89	63-131	
Benzene	ug/L	20	17.4	87	66-123	
Diisopropyl ether	ug/L	20	18.8	94	70-136	
Ethanol	ug/L	800	610	76	40-160	
Ethyl-tert-butyl ether	ug/L	20	18.8	94	65-135	
Ethylbenzene	ug/L	20	18.3	92	67-122	
Methyl-tert-butyl ether	ug/L	20	17.4	87	65-138	
tert-Amylmethyl ether	ug/L	20	17.1	86	68-138	
tert-Butyl Alcohol	ug/L	100	63.6	64	57-153	
Toluene	ug/L	20	17.8	89	64-118	
Xylene (Total)	ug/L	60	54.4	91	68-122	
1,2-Dichloroethane-d4 (S)	%			91	72-127	
4-Bromofluorobenzene (S)	%			90	79-121	
Dibromofluoromethane (S)	%			99	81-119	
Toluene-d8 (S)	%			106	77-120	





Project:

256277

Pace Project No.: 258658

MATRIX SPIKE & MATRIX SP	IKE DUPLICA	ATE: 81157			81158						
		258657005	MS Spike	MSD Spike	MS	MSD	MS	MSD	% Rec		
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	Qual
,2-Dibromoethane (EDB)	ug/L	ND ND	20	20	14.8	17.4	74	87	61-127	17	
2-Dichloroethane	ug/L	ND	20	20	16.7	19.4	83	97	60-138	15	
enzene	ug/L	3.5	20	20	21.2	23.4	88	99	63-138	10	
iisopropyl ether	ug/L	ND	20	20	16.9	19.9	85	99	68-146	16	
thanol	ug/L	ND	800	800	586	747	73	93	40-160	24	
thyl-tert-butyl ether	ug/L	ND	20	20	16.6	19.4	83	97	63-138	16	
lhylbenzene	ug/L	1.3	20	20	20.6	23.5	96	111	65-135	13	
ethyl-tert-butyl ether	ug/L	6.7	20	20	22.7	25.1	80	92	59-143	10	
rt-Amylmethyl ether	ug/L	ND	20	20	15.5	17.8	78	89	62-142	14	
rt-Butyl Alcohol	ug/L	ND	100	100	62.9	78.5	60	75	46-156	22	
oluene	ug/L	ND	20	20	18.3	21.1	90	104	64-128	14	
ylene (Total)	ug/L	ND	60	60	55.6	64.6	92	107	65-133	15	
2-Dichloroethane-d4 (S)	%						96	95	72-127		
Bromofluorobenzene (S)	%						101	101	79-121		
ibromofluoromethane (S)	%						98	98	81-119		
oluene-d8 (S)	%						104	103	77-120		





Project:

256277

Pace Project No.:

258658

QC Batch:

MSV/5064

Analysis Method:

EPA 5030B/8260

QC Batch Method:

EPA 5030B/8260

Analysis Description:

8260 MSV Water 10 mL Purge

Associated Lab Samples:

258658002, 258658004

METHOD BLANK: 81037

Matrix: Water

Associated Lah Samples: 258658002 258658004

Associated Lab Samples.	258658002, 258658004				
		Blank	Reporting		
Parameter	Units	Result	Límit	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	08/05/11 18:36	
1,2-Dichloroethane	ug/L	ND	1.0	08/05/11 18:36	
Benzene	ug/L	ND	0.50	08/05/11 18:36	
Diisopropyl ether	ug/L	ND	0.50	08/05/11 18:36	
Ethanol	ug/L	ND	250	08/05/11 18:36	
Ethyl-tert-butyl ether	ug/L	ND	0.50	08/05/11 18:36	
Ethylbenzene	ug/L	ND	0.50	08/05/11 18:36	
Methyl-tert-butyl ether	ug/L	ND	0.50	08/05/11 18:36	
tert-Amylmethyl ether	ug/L	ND	0.50	08/05/11 18:36	
tert-Butyl Alcohol	ug/L	ND	5.0	08/05/11 18:36	
Toluene	ug/L	ND	0.50	08/05/11 18:36	
Xylene (Total)	ug/L	ND	1.5	08/05/11 18:36	
1,2-Dichloroethane-d4 (S)	%	100	72-127	08/05/11 18:36	
4-Bromofluorobenzene (S)	%	102	79-121	08/05/11 18:36	
Dibromofluoromethane (S)	%	97	81-119	08/05/11 18:36	
Toluene-d8 (S)	%	103	77-120	08/05/11 18:36	

LABORATORY CONTROL SAMPLE:	81038					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	20	15.4	77	65-123	
1,2-Dichloroethane	ug/L	20	17.1	85	63-131	
Benzene	ug/L	20	16.2	81	66-123	
Diisopropyl ether	ug/L	20	17.3	87	70-136	
Ethanol	ug/L	800	767	96	40-160	
Ethyl-tert-butyl ether	ug/L.	20	17.0	85	65-135	
Ethylbenzene	ug/L	20	18.5	92	67-122	
Methyl-tert-butyl ether	ug/L	20	16.0	80	65-138	
tert-Amylmethyl ether	ug/L	20	15.7	78	68-138	
tert-Butyl Alcohol	ug/L	100	70.0	70	57-153	
Toluene	ug/L	20	17.2	86	64-118	
Xylene (Total)	ug/L	60	54.1	90	68-122	
1,2-Dichloroethane-d4 (S)	%			97	72-127	
4-Bromofluorobenzene (S)	%			101	79-121	
Dibromofluoromethane (S)	%			99	81-119	
Toluene-d8 (S)	%			103	77-120	



Project:

256277

Pace Project No.: 258658

MATRIX SPIKE & MATRIX SP	IKE DUPLICA	ATE: 81188			81189						
		258656001	MS Spike	MSD Spike	MS	MSD	MS	MSD	% Rec		
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	Qua
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	16.0	17.2	80	86	61-127	8	
,2-Dichloroethane	ug/L	ND	20	20	17.9	19.1	90	96	60-138	7	
Benzene	ug/L	ND	20	20	18.1	19.5	90	97	63-138	7	
Diisopropyl ether	ug/L	ND	20	20	18.2	19.4	91	97	68-146	7	
Ethanol	ug/L	ND	800	800	722	823	90	103	40-160	13	
Ethyl-tert-butyl ether	ug/L	ND	20	20	17.6	19.2	88	96	63-138	8	
Ethylbenzene	ug/L	ND	20	20	20.7	22.1	103	110	65-135	7	
/lethyl-tert-butyl ether	ug/L	ND	20	20	16.3	17.5	81	87	59-143	7	
ert-Amylmethyl ether	ug/L	ND	20	20	16.2	17.5	81	88	62-142	8	
ert-Butyl Alcohol	ug/L	ND	100	100	65.2	73.1	65	73	46-156	11	
Toluene	ug/L	ND	20	20	19.2	20.9	96	104	64-128	8	
(ylene (Total)	ug/L	ND	60	60	59.7	64.5	99	107	65-133	8	
,2-Dichloroethane-d4 (S)	%						97	96	72-127		
-Bromofluorobenzene (S)	%						99	98	79-121		
Dibromofluoromethane (S)	%						100	98	81-119		
oluene-d8 (S)	%						103	104	77-120		



Project:

256277

Pace Project No.:

258658

QC Batch:

MSV/5057

Analysis Method:

CA LUFT

QC Batch Method:

CA LUFT

Analysis Description:

CALUFT MSV GRO

Associated Lab Samples:

METHOD BLANK: 80849

Parameter

Matrix: Water

Associated Lab Samples:

258658001, 258658003

258658001, 258658003

Blank Result

Reporting Limit

Analyzed Qualifiers

TPH-Gasoline (C05-C12) 4-Bromofluorobenzene (S)

ug/L %

Units

Units

ND 100

50.0 76-121

08/05/11 07:19 08/05/11 07:19

LABORATORY CONTROL SAMPLE:

Parameter

80850

Spike

Conc.

500

LCS

LCS % Rec % Rec

Qualifiers Limits

TPH-Gasoline (C05-C12) 4-Bromofluorobenzene (S)

ug/L %

Units

ug/L

%

Conc. 500 Result 416

83 100 57-139

76-121

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:

81159

ND

258657010

Result

500

MSD

MS

MSD % Rec

% Rec Limits

RPD Qual 8

TPH-Gasoline (C05-C12) 4-Bromofluorobenzene (S)

Parameter

MS MSD Spike

Spike Conc.

MS Result

81160

Result 383

% Rec 415 75

101

82 100

40-150

76-121

Date: 08/11/2011 01:39 PM



Project:

256277

Pace Project No.:

QC Batch Method:

258658

QC Batch:

MSV/5065

CALUFT

Analysis Method: **CALUFT**

Analysis Description:

CALUFT MSV GRO

Associated Lab Samples:

258658002, 258658004

METHOD BLANK: 81040

Associated Lab Samples:

258658002, 258658004

Units

Blank Reporting Result

Matrix: Water

Limit

Analyzed

Qualifiers

TPH-Gasoline (C05-C12) 4-Bromofluorobenzene (S)

TPH-Gasoline (C05-C12)

4-Bromofluorobenzene (S)

ug/L %

ND 102

50.0 08/05/11 18:36 76-121 08/05/11 18:36

LABORATORY CONTROL SAMPLE:

Parameter

Parameter

81041

ug/L

%

Units

Units

Spike Conc.

LCS Result

415

LCS % Rec % Rec Limits

Qualifiers

57-139 83 101 76-121

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:

81434

ND

258656004

Result

81435

500

MSD

MS MSD

MS

MSD % Rec % Rec

Limits RPD

2

Qual

TPH-Gasoline (C05-C12) 4-Bromofluorobenzene (S)

Parameter

ug/L %

MS Spike Conc.

500

500

Spike Conc.

Result Result 415

% Rec 409 82 101

81 100

40-150 76-121



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

QUALIFIERS

Project:

256277

Pace Project No.:

258658

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel Clean-Up

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

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

LABORATORIES

PASI-S

Pace Analytical Services - Seattle

ANALYTE QUALIFIERS

1n 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 tetrachloroethene in the sample.





QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project:

256277

Pace Project No.: 258658

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch	
258658001	MW-10_20110731	EPA 5030B/8260	MSV/5058			
258658002	MW-7_20110731	EPA 5030B/8260	MSV/5064			
258658003	MW-8_20110731	EPA 5030B/8260	MSV/5058			
258658004	MW-9_20110731	EPA 5030B/8260	MSV/5064			
258658001	MW-10_20110731	CA LUFT	MSV/5057			
258658002	MW-7_20110731	CA LUFT	MSV/5065			
258658003	MW-8_20110731	CA LUFT	MSV/5057			
258658004	MW-9_20110731	CA LUFT	MSV/5065			



COP ELT CHAIN-OF-CUSTODY / Analytical Request Document

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

3Q 2011 GW Event

	ired Lab Information	Required Project Informat	non		Required Invoice	Information												
Lab N	ame Pace-Seattle			G_O_201107	Send Invoice to:	Tara Bosch			-			7						
Addre	ss:	AnteaGrp proj# 14025	56277		Address: 110501	Nhite Rock Road S	ute 110					Turn	around tir	ne (days	1	0		
940 8	Harney Street Seattle WA 98108	Site Address 15803 Ea	ast 14th St	reet	City/State	Rancho Cordova	CA 95670	Phone #	1916.50	3-1267						Special		14 1 222
Lab P	M. Regina Ste, Mane	City San Leandro	State	ICA	Reimbursement pr			nbursemen		1	Mark one		QC level Required: Standard NJ Reduced Deliverable Pack			A - 22 1		Mark one
Phone	P: 206-957-2433 F: 206-767-5063		Oldic		The state of the s	OJOCK*	- Control	nodraemen	projecti	Y	Mark one							
Lab P	M email Regina.SteMane@pacelabs.com		Dennis Det	tloff 916-638-8385	Send EDD to	copeltdata@intell	ligentehs.c	com				MA MCP Cert? CT RCF					Mark One	
I HOREST CA.					CC Hardcopy							Lab	Project ID	(lab us	e)			
			us.Dettloff(@anteagroup com	CC Hardcopy i	report to						Rec	quested	///	///	777	//	
SAMPLE ID One Character per box		Valid Matter Codes MATRIX Internal with a width of the code of t		MATRIX CODE SAMPLE TYPE G=GRAB C=COMP	SAMPLE DATE	SAMPLE TIME	CONTAINERS FILTERED? (YA)			Preservatives		Analyses /						
ITEM#	(A-Z, 0-97,-) Samples IDs MUST BE UNIQUE	DE DE COMMENT DE LE COMMENT DE	OT 14	SAMP G*GRAE			#OF CO!	FIELD FILT	Unpreserved H;SO, HNO,	нсі маон	Na,S,O, Methanol	\$ /s			///		Comment Sample I.	
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2	MW-7_20110731		V	vg		1420	6	1		X		x >					TAME, T	
3	MW-8_20110731		,	vg		1330	6			X		x >				EDB	ol. 1,2DCI	A, and
4	MW-9_20110731		V	vG	1	1300	10	1		X		x >				1200		
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	onal Comments/Special Instructions:			ELINQUISHED BY	1155111550			HONGA PARK								J.		
						DATE	and the same of th	U asser fo	ED BY / A	FFILIATI	ON		DATE	TIME	Sam	ple Rece	pt Conditi	ons
			-	ih	- 1315	760	1600	100					16			Y/N	Y/N	Y/N
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Gla	hal ID: T0640749470										miu					Y/N	Y/N	Y/N
Global ID: T0619718179															Y/N	Y/N	Y/N	
					D: (mark as appropria		ER NAM	E AND SIG	SNATURE						6)		
			U	PS COURIER	FEDEX PRINT No		3	حابهنوا	cH-	m	E Signed					Samples on Ice?	Sample intact?	Trip Blank'
		U	S MAIL	SIGNATU	RE CESAMPLER	1 2	2		DAT	E Signed	340	Time i6	מרז		Sam	Sa	Trip	

Sample Container Count

CLIENT: Antea											Pace Analytical						
COC PAGE _	of													MALIN ENCORIGO ECM			
Sample Line Item	VG9H	AG1H	AG1U	BG1H	BP1U	BP2U	BP3U	BP2N	RP2S	WGFU	MCKII			Comments			
1	6					5.20	5.00	D. LIV	1	T T	Wake	1	1	Comments			
2	6																
3	6																
4	10				1			- See all									
5																	
6			V								20						
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8																	
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10																	
11																	
12					2									Trip Blank? NO			
											•		*	1,10			
AG1H	1 liter HCt	_ amber g	lass				BP2S	500mL H	12SO4 pl	astic		*	JIGEU	4oz unpreserved amber wide			
	1liter unpr			iss					inpreserv				R				
	500mL H2				SUL O	1			NaOH, Zn				U	Summa Can			
	500mL un			glass					NaOH pla				VG9H	40mL HCL clear vial			
	250mL H2								HNO3 pla					40mL Na Thio, clear vial			
	1 liter HCl				4		BP3S	250mL	H2SO4 p	lastic				40mL unpreserved clear vial			
	1 liter unp					100			unpresen		С			40mL glass vial preweighted (EPA 5035)			
	P1N 1 liter HNO3 plastic						DG9B	40mL Na	a Bisulfat	e amber	vial		VSG	Headspace septa vial & HCL			
	1 liter H2S								CL ambe					4oz clear soil jar			
	1 liter unpr								eOH clea					4oz wide jar w/hexane wipe			
BP1Z	1 liter NaO	H, Zn, Ac					DG9T	40mL Na Thio amber vial					ZPLC	C Ziploc Bag			

DG9U 40mL unpreserved amber vial

I Wipe/Swab

BP2N 500mL HNO3 plastic

BP20 500mL NaOH plastic

Sample Condition Upon Receipt Client Name: Antca Project # 2 5 8 6 5 8 Courier: Fed Ex UPS USPS Client Commercial Pace Other Tracking #: 8756 1770 0490 Custody Seal on Cooler/Box Present: Yes No Seals intact: Packing Material: Bubble Wrap Bubble Bags None Other Temp. Blank Yes 132013 of 10173196) or 226099 Type of Ice: (Wet) Blue None Thermometer Used Samples on ice, cooling process has begun Date and Initials of person examining contents: 072811 CW Biological Tissue is Frozen: Yes No **Cooler Temperature** Temp should be above freezing ≤ 6°C Comments: MYes DNo DNA 1. Chain of Custody Present: Chain of Custody Filled Out: Tres DNo DNA 2 EYES DNO DNIA 3. Chain of Custody Relinquished: Thes ONO DINA 4. Sampler Name & Signature on COC: Tes ONO ONA 5. Samples Arrived within Hold Time: Short Hold Time Analysis (<72hr): DYES ENO DNA 6. Dyes DNo DNA Rush Turn Around Time Requested: DYES ENO DNA Follow Up / Hold Analysis Requested: MYes ONO ONA Sufficient Volume: MYes DNo DNA 10. Correct Containers Used: MYes ONO ONIA -Pace Containers Used: Containers Intact: Yes DNO DNIA Filtered volume received for Dissolved tests DYES DNO DNIA MYes ONO ONIA 13. Sample Labels match COC: WT -Includes date/time/ID/Analysis All containers needing preservation have been checked. DYES DNO MNIA All containers needing preservation are found to be in □Yes □No MN/A compliance with EPA recommendation. Initial when Lot # of added Exceptions: VOA) coliform, TOC, O&G completed preservative Samples checked for dechlorination: □Yes □No IIIN/A Dres ONo DNA 16.4 of the 10 voas have Headspace in VOA Vials (>6mm): 男 for sample MW-9-20110731 Trip Blanks Present: □Yes ENo DINA Trip Blank Custody Seals Present DYES DNO DINA Pace Trip Blank Lot # (if purchased): Client Notification/ Resolution: Field Data Required? Person Contacted: Date/Time: Comments/ Resolution:

Project Manager Review: RSm Date: 07/28///

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)

Quarterly Summary Report, Third Quarter 2011 76 Service Station No. 6277 San Leandro, CA Antea Group Project No. 140256277



Appendix E

Waste Manifest

NON-HAZARDOUS WASTE

NON-HAZARDOUS WASTE MANIFEST

Plea	se print or type Form designed for use on elite (12 p	itch) typewriter)			THE RESERVE THE PARTY OF THE PA		**************************************			
	NON-HAZARDOUS WASTE MANIFEST	WASTE MANIFEST								
	3. Generator's Name and Mailing Address	Fladinory Sesus (STEPOLATOR WHE KOOKING	u Tidar	Site # 250277					
		SUH 20	and the same		15803	East Mith	Figel			
	4. Generator's Phone () () ()	<u> </u>	HILS CA 9130 US EPA ID Number	<u> </u>	13414	andro, CA	to flood day of the			
	5. Transporter 1 Company Name Excine Tech Serv	1665	US EPA ID NUMBE		A. State Trans	1 Phone A A	-1111 100			
	7, Transporter 2 Company Name	8.	US EPA ID Number		C. State Trans		Annual Contraction of the Contra			
	And the Control of th				D. Transporte	2 Phone	AMERICAN MARIE			
	9. Designated Facility Name and Site Address	ite 10.	US EPA ID Number	· ·	E. State Facili	ly's ID	in and a second			
	700 Sapore DVO Pertoord Colvin Ca 9	40163	1101357		F. Facility's Pt	one 2-204-10	24			
	11. WASTE DESCRIPTION		•	1	ontainers	13. Total	14. Unit			
	a.		W-024-20	No.	Туре	Quantity	Wt./Vol.			
	Non hazardous vaste	liqued		4734400	77	30	Ğ			
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A	v.									
OR	d.	AMERICAN PROPERTY OF THE PROPE	- (- <u></u>			AND CONTRACTOR OF THE THE PARTY OF THE PARTY				
	: :				***************************************		MACCOLATECTO (A TOTAL CONTRACTOR)			
	G. Additional Descriptions for Materials Listed Above	AND AND ALL PROPERTY OF THE PR			H. Handling C	odes for Wastes Listed Above	,			
		•			# # # # # # # # # # # # # # # # # # #					
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	15. Special Handling Instructions and Additional Inform			14	pfrond	No 500. Blains Tech	-1049			
	Wear protective equipment			Direct	bill	Blains Tech				
	weight and volumes and athresis and phones are	r aggrain		13 Car.	· Tec	C (D" MNOT	2911-151			
	er en gay paran	L/#/ 000 T7				7				
	16. GENERATOR'S CERTIFICATION: I hereby certify	that the contents of this shipm	ent are fully and accurately descri	bed and are in	all respects					
	16. GENERATOR'S CERTIFICATION: I hereby certify in proper condition for transport. The materials described in proper condition for transport.	nibed on this manifest are not	subject to federal hazardous wast	e regulations.	• .					
	(AND GROS)		- September 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 -		A A	The state of the s	Date			
		PENOTOF	Signature	· America	Done	les W	h Day Year			
T	17. Transporter 1 Acknowledgement of Receipt of Mate	H ZMERBA rials		<u> 7 </u>		haranda had	Date			
RA	Printed/Typed Name	***************************************	Signature			Monti	h Day Year			
200	Patrick Harry	ALEXANDER OF THE PROPERTY OF T		ar and a second		omeon of the same	136/11			
OR	18. Transporter 2 Acknowledgement of Receipt of Mate Printed/Typed Name	rials	Signature	AND THE STREET, STREET	The state of the s	Monti	Date h Day Year			
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	19. Discrepancy Indication Space		and a first section of the section o	TO VARIANTIA EXCONERIO PARAMENTA PAR		COMPRONING THE SECOND PROPERTY OF THE SECOND	procedure construction and the second construction and the			
FAC										
, max	20. Facility Owner or Operator; Certification of receipt of	f the waste materials covered	by this manifest, except as noted	in item 19.		Paramone and a second	UES TAMO - DATE CONTRACTOR DE			
	Printed/Typed Name		Signature	<i></i>	indenindra estimanian simalismost ilia indicatori construi anti	Monti	Date h <i>Day Year</i>			
A	Jagun J.	Canno		A CONTRACTOR OF THE PARTY OF TH			129111			

