PACIFIC
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August 26, 2011

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

Subject: **Site Investigation Report**

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

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:

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Sincerely,

PACIFIC CONVENIENCE & FUEL

Liz Bermudez

LIZ BERMUDEZ
Senior Paralegal
Division, Unit, or Group

Attachment

Site Investigation Report

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

Alameda County Health Care Services Agency
Fuel leak Case No. RO0000219
Regional Water Quality Control Board
San Francisco Bay No. 01-1601

GeoTracker Global ID No.T0600101476

Antea Group Project No. I42705191
August 26, 2011

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

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1.0 INTRODUCTION

Antea Group (formally Delta Consultants) has prepared this report describing the installation, development, and surveying of four additional monitoring wells and the advancement of one soil boring at the site located at 449 Hegenberger Road in Oakland, California. This work was performed as proposed in the work plan submitted by Delta Consultants to the Alameda County Health Care Services Agency (ACHCSA) on December 20, 2010.

1.1 Site Description

The site is currently an operating 76 station located at 449 Hegenberger Road in Oakland, California (**Figure 1**). The site contains six fuel dispensers on two islands under a single canopy, three fuel underground storage tanks (USTs) on the north side of the site, a carwash facility on the west side of the site, and a station building in the central portion of the site. The current site features are shown on **Figure 2**.

1.2 Previous Assessment

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. Historical soil analytical results are presented in **Table 1**. Sample locations are shown on **Figure 3**.

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. Historical soil analytical results are presented in **Table 1**. Monitoring well locations are shown on **Figure 3**.

August 1992 - Three additional monitoring wells, MW-4 through MW-6, were installed at the site, each to a depth of 13.5 feet bgs. Historical soil analytical results are presented in **Table 1**. Monitoring well locations are shown on **Figure 3**.

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.

Historical soil analytical results are presented in **Table 1**. The location of the former waste-oil UST is shown on **Figure 3**.

January 1995 - Two additional monitoring wells, MW-9 and MW-10, were installed to depths of 13 and 15 feet bgs. In addition, two existing monitoring wells were destroyed in order to accommodate the construction of a car wash at the site. Monitoring wells MW-4 and MW-5 were fully drilled out and backfilled with neat cement. Historical soil analytical results are presented in **Table 1**. Monitoring well locations are shown on **Figure 3**.

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), benzene, and TPH as gasoline (TPHg). Approximately 125,000 gallons of groundwater were pumped from the site for remediation and properly disposed of 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. Historical soil analytical results are presented in **Table 1**. Sample locations are shown on **Figure 3**.

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. Historical soil analytical results are presented in **Table 1**. Sample locations are shown on **Figure 3**.

April 1997 - Two additional monitoring wells, MW-7 and MW-8, were installed off-site to the south and west on the neighboring property to a depth of 13 feet bgs. In addition, monitoring well MW-3, which was damaged during recent site demolition activities was drilled out and replaced. Historical soil analytical results are presented in **Table 1**. Monitoring well locations are shown on **Figure 3**.

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. Historical soil analytical results are presented in **Table 1**. Boring locations are shown on **Figure 3**.

June 2010 - Delta advanced four borings to be completed as monitoring wells MW-11, MW-12, MW-12A, and MW-13. The wells were installed to depths of 15 feet bgs (MW-13), 20 feet bgs (MW-11 and MW-12), and 34 feet bgs (MW-12A). Analytical results from the soil samples collected from the borings for monitoring wells MW-12 and MW-12A indicated that the soil was impacted by petroleum hydrocarbons. Historical soil analytical results are presented in **Table 1**. Monitoring well locations are shown on **Figure 2**.

1.3 Sensitive Receptors

April 24, 2006 TRC completed a sensitive receptor survey for the site. According to the Department of Water Resources (DWR) records, there are two irrigation wells and one industrial well located within one-half mile of the site. The nearest well, is an irrigation well located approximately 1,080 feet southeast of the site. The other irrigation well is located approximately 2,623 feet southeast of the site and the industrial well is located approximately 2,570 feet northeast 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.

2.0 SITE GEOLOGY AND HYDROGEOLOGY

The site is underlain by Holocene-age bay mud. The bay mud typically consists of unconsolidated, saturated clay and sandy clay that is rich in organic material. The bay mud locally contains lenses and stringers of silt, well-sorted sand and gravel, and beds of peat.

The most recent monitoring and sampling event was conducted at the site on June 2, 2011. The measured depth to groundwater ranged from 1.75 feet to 5.78 feet below top of casing (TOC). The groundwater flow direction was southeast with a hydraulic gradient of 0.02 foot per foot.

3.0 WELL INSTALLATION ACTIVITIES

3.1 Permitting, Utility Notification, and Borehole Clearance

Before commencing field activities Antea Group prepared a Health and Safety Plan in accordance with state and federal requirements for use during investigation activities. Drilling permits were obtained for the four (4) monitoring wells and the one (1) soil boring from the Alameda County Public Works Agency (**Appendix A**). Prior to drilling, Underground Service Alert (USA) was notified as required by law and a private utility locator was employed to clear each boring location for underground utilities. In addition, an air- knife was used to clear each boring location to a depth of 5 feet bgs prior borehole advancement and well installation.

3.2 Monitoring Well Installation

On May 17 and 18, 2011, Antea Group supervised the installation of four (4) monitoring wells (MW-14 through MW-17). Gregg Drilling and Testing, Inc. (Gregg) under the supervision of an Antea Group geologist installed the monitoring wells using a limited access rig equipped with 8-inch outside diameter hollow-stem augers. Soil samples were collected continuously beginning at a depth of approximately 5 feet bgs and logged using the Unified Soil Classification System (USCS) for lithologic interpretation and field screened for the presence of volatile organic compounds by headspace analysis using a pre-calibrated PID. The soil samples were collected using direct push technologies before the installation of the monitoring wells. Soil samples from each borehole were retained for laboratory analysis. The samples were chosen based on PID readings, changes in lithology, groundwater elevation, and the total depth of the borings. Boring logs are presented in **Appendix B**.

The groundwater monitoring well casing was installed in the well borings while the augers were in place. The monitoring wells consist of 2-inch diameter schedule 40 poly vinyl chloride (PVC) well casing with a screen interval that was determined in the field based on the encountered lithology. Monitoring wells MW-14 through MW-17 have ten (10) foot screen intervals from 3 feet bgs to 13 feet bgs. The perforation size in the screen interval is 0.020-inch. A sand pack consisting of RMC Lonestar #3 Sand was installed into the annular space and extends approximately one (1) foot above the top of the screen interval.

A one (1) foot thick bentonite seal was placed on top of the sand pack. The remainder of the annular space is filled with neat cement and the monitoring wells were fitted with a locking cap and encased in a traffic-rated protective vault placed at existing ground level. Well construction details are presented in **Appendix B**.

DWR Well Completion Reports were prepared for each of the four (4) monitoring wells. Copies of the DWR Well Completion Reports are presented as **Appendix B**.

3.3 Soil Boring

On May 18, 2011, Antea Group supervised the advancement of one (1) soil boring (B-6). Gregg, under the supervision of an Antea Group geologist, advanced the boring using a limited access drill rig with direct push technology. Soil samples were collected continuously beginning at a depth of approximately 5 feet bgs and logged using the USCS for lithologic interpretation and field screened for the presence of volatile organic compounds by headspace analysis using a pre-calibrated PID. Soil samples from the boring were retained for laboratory analysis. The samples were chosen based on PID readings, changes in lithology, groundwater elevation, and the total depth of the boring. The soil boring was advanced to a total depth of 26 feet bgs. Boring logs are presented in **Appendix B**.

3.4 Soil Sampling

Soil samples retained for analysis were analyzed for TPHg by the California LUFT Method, benzene, toluene, ethylbenzene, and total xylenes (BTEX), methyl tertiary-butyl ether (MTBE), tertiary amyl methyl ether (TAME), di-isopropyl ether (DIPE), ethyl tertiary-butyl ether (ETBE), tertiary-butyl alcohol (TBA), 1,2-dichloroethane (1,2-DCA), ethylene dibromide (EDB), and ethanol by Environmental Protection Agency (EPA) Method 8260; diesel range organics (DRO) by EPA Method 8015B; DRO with silica gel treatment by EPA Method 8015B; and total lead by EPA Method 6010. The samples 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 is presented as **Appendix C.**

3.5 Quality Assurance / Quality Control

Antea Group's QA/QC measures included a detailed QA/QC data validation check on the Pace analytical report for the May 2011 site investigation. Antea Group's laboratory data validation checklist and the Pace analytical report are presented as **Appendix C**.

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

*1n – The DRO result for this sample did not match the pattern of the laboratory standard fro diesel

*M1 – Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample recovery

*S5 – Surrogate recovery outside control limits due to matrix interferences.

3.6 Well Development, Monitoring, and Sampling

The monitoring wells were developed a minimum of 72 hours after construction. Each of the four (4) newly installed monitoring wells were developed by surging the well screen with a surge block. This was followed by bailing and pumping using a submersible pump. Copies of the well development logs are presented as **Appendix D**.

The monitoring wells were sampled on June 2, 2011 and the results of that sampling event were presented in the *Quarterly Summary Report – Second Quarter 2011* and discussed below.

3.7 Monitoring Well MW-6 Redevelopment

During the development of the four newly installed wells, Antea Group also attempted to redeveloped monitoring well MW-6. The monitoring well was redeveloped by surging the well screen with a surge block. This was followed by bailing and then pumping using a submersible pump. The monitoring well was redeveloped in an attempt to increase efficiency. During batch extraction events where monitoring well MW-6 was used as an extraction well, the well was purged dry and did not immediately recover.

Subsequent to redevelopment activities it did not appear that the efficiency of the well had increased. A copy of the well redevelopment log is presented as **Appendix D**.

3.8 Wellhead Survey

Following the completion of the new monitoring wells, a California licensed surveyor, surveyed the northing and easting of the monitoring wells using Datum NAD83. The monitoring well elevation was surveyed relative to mean sea level, with an accuracy of +/- 0.01 foot. A global positioning system (GPS) was also used to survey the latitude and longitude of each well to be uploaded into California's Geo Tracker database system. The survey of the well locations is to sub-meter accuracy.

3.9 Disposal of Drill Cuttings and Wastewater

Drill cuttings and well purge water generated during monitoring well installation, soil boring advancement, and well development activities were placed into properly labeled 55-gallon Department of Transportation (DOT) approved steel drums. Samples of the drill cuttings and purge water were collected, properly labeled, placed on ice, and submitted to a California-certified laboratory for analysis of TPHg by the CA LUFT Method, BTEX and MTBE by EPA Method 8260, and total lead by EPA Method 6010. Chain-of-custody documentation accompanied the samples during transportation to the laboratory. A copy of the analytical report is presented in **Appendix C**. The generated waste has been removed from the site and disposed of at approved waste facilities. Copies of the waste manifests are presented as **Appendix E**

4.0 RESULTS OF THE INVESTIGATION

4.1 Soil Analytical Results

Analytical results from the 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), MTBE concentrations ranging from 0.015 mg/kg (MW-15d13) to 0.19 mg/kg (MW-15d8), 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). 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). The soil analytical results are presented in **Table 1** and on **Figure 4**. A copy of the laboratory report, chain-of-custody documentation, and a laboratory validation sheet are presented as **Appendix C**.

4.2 Groundwater Sampling Analytical Results

Analytical results from the groundwater samples collected subsequent to installation of the four recently installed monitoring wells reported TPHg concentrations ranging from 357 micrograms per liter [µg/L] (MW-14) to 51,600 µg/L (MW-14), benzene concentrations ranging from 79.4 µg/L (MW-16) to 2,750 µg/L (MW-14), toluene concentrations ranging from 67.9 µg/L (MW-14) to 960 µg/L (MW-17), ethylbenzene concentrations ranging from 4.2 µg/L (MW-16) to 1,790 µg/L (MW-14), total xylene concentrations ranging from 907 µg/L (MW-17) to 13,400 µg/L (MW-14), MTBE concentrations ranging from 0.74 µg/L (MW-17) to 1,200 µg/L (MW-16), and TBA concentrations ranging from 6.4 µg/L (MW-15) to 366 µg/L (MW-17). DRO with silica gel concentrations were reported; however, all of the results did not match the laboratory standard for diesel. Concentrations of DRO with silica gel ranged from 124 µg/L (MW-15) to 4,180 µg/L (MW-14). The groundwater analytical results from the groundwater sampling event conducted on June 2, 2011 are presented in **Table 2**. A copy of the laboratory report, chain-of-custody documentation, and a laboratory validation sheet are presented as **Appendix C**.

5.0 CONCLUSIONS AND RECOMMENDATIONS

Based on the data from this investigation and previous investigations at this site it appears that there are two areas of concern beneath the site. The first area is east of the fuel dispensers, in the vicinity of monitoring wells MW-12 and MW-17. The source of petroleum hydrocarbon impact in the vicinity of monitoring wells MW-12 and MW-17 was most likely the fuel dispensers and or product piping.

The second area of concern is in the southwest corner of the site between monitoring wells MW-6 and MW-14. It is likely that the source of the petroleum hydrocarbon impacted in this area also originated from the fuel dispensers and or product piping. It is possible that the petroleum hydrocarbons migrated from beneath the fuel dispensers to the trench containing the underground electrical line at a depth of 3.5 feet bgs, south on monitoring well MW-11 and adjacent to monitoring well MW-6. Known

utilities are shown on **Figure 5**. However, if this was true petroleum hydrocarbon concentrations in monitoring well MW-11 would also likely be elevated. Additional investigation maybe necessary to assess the source of the impacted soil and groundwater in this area.

In an attempt to reduce the petroleum hydrocarbon impact to the soil and groundwater beneath the site in the two locations discussed above, Antea Group recommends that a work plan be prepared, under a separate cover, proposing that a hydraulic profiling test be conducted at these two locations. Subsequent to the hydraulic profiling test a corrective action plan (CAP) will be prepared with recommendations for remediation of the petroleum hydrocarbon impact to the soil and groundwater beneath the site.

6.0 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. 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:

Date: 8-26-11

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.

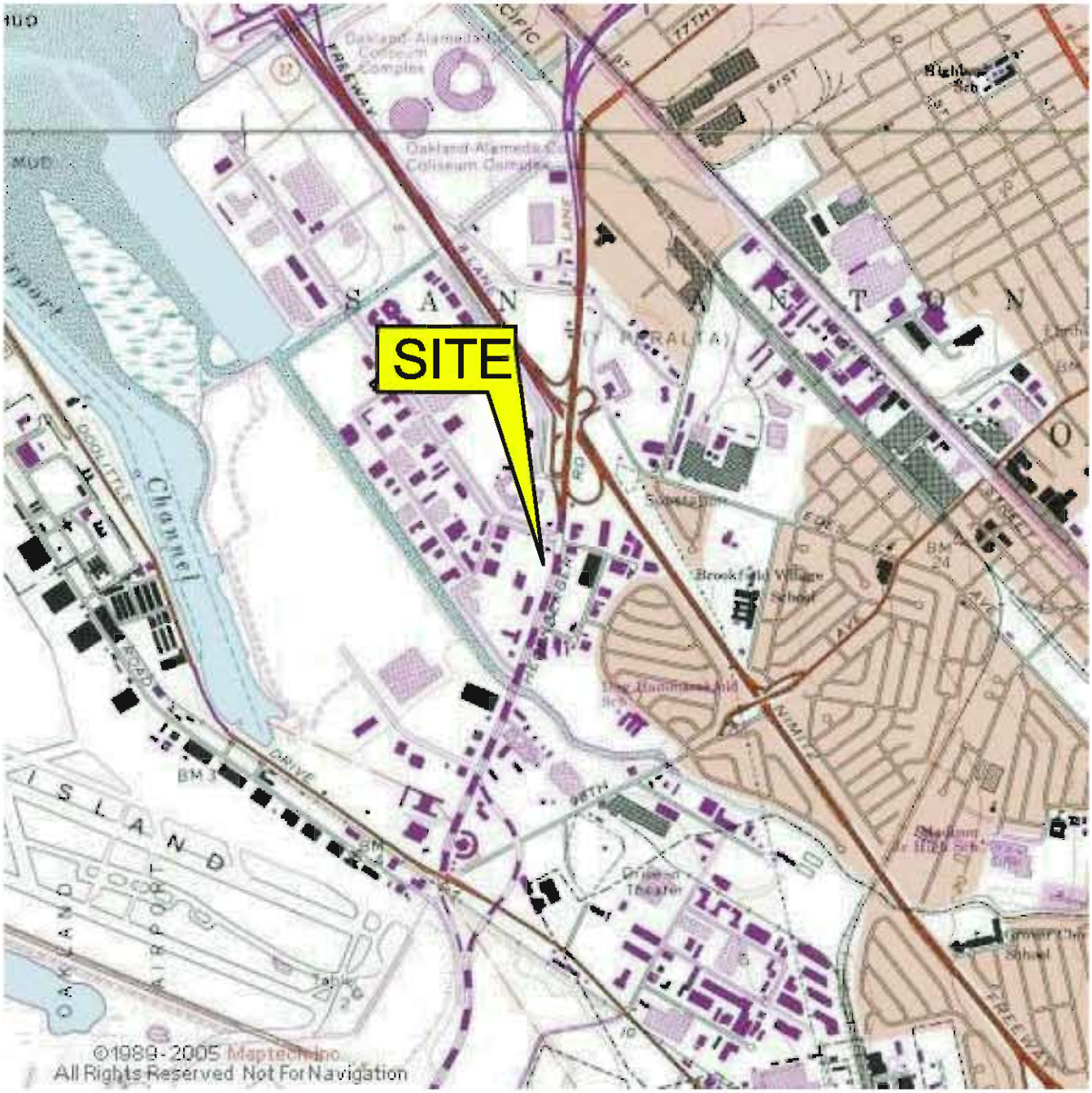
Licensed Approver:

PROFESSIONAL GEOLOGIST
DENNIS SHANNON DETTLOFF
No. 7480
STATE OF CALIFORNIA

Date: 8/26/11

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

Figures



North

0 900 1800 FT

SCALE

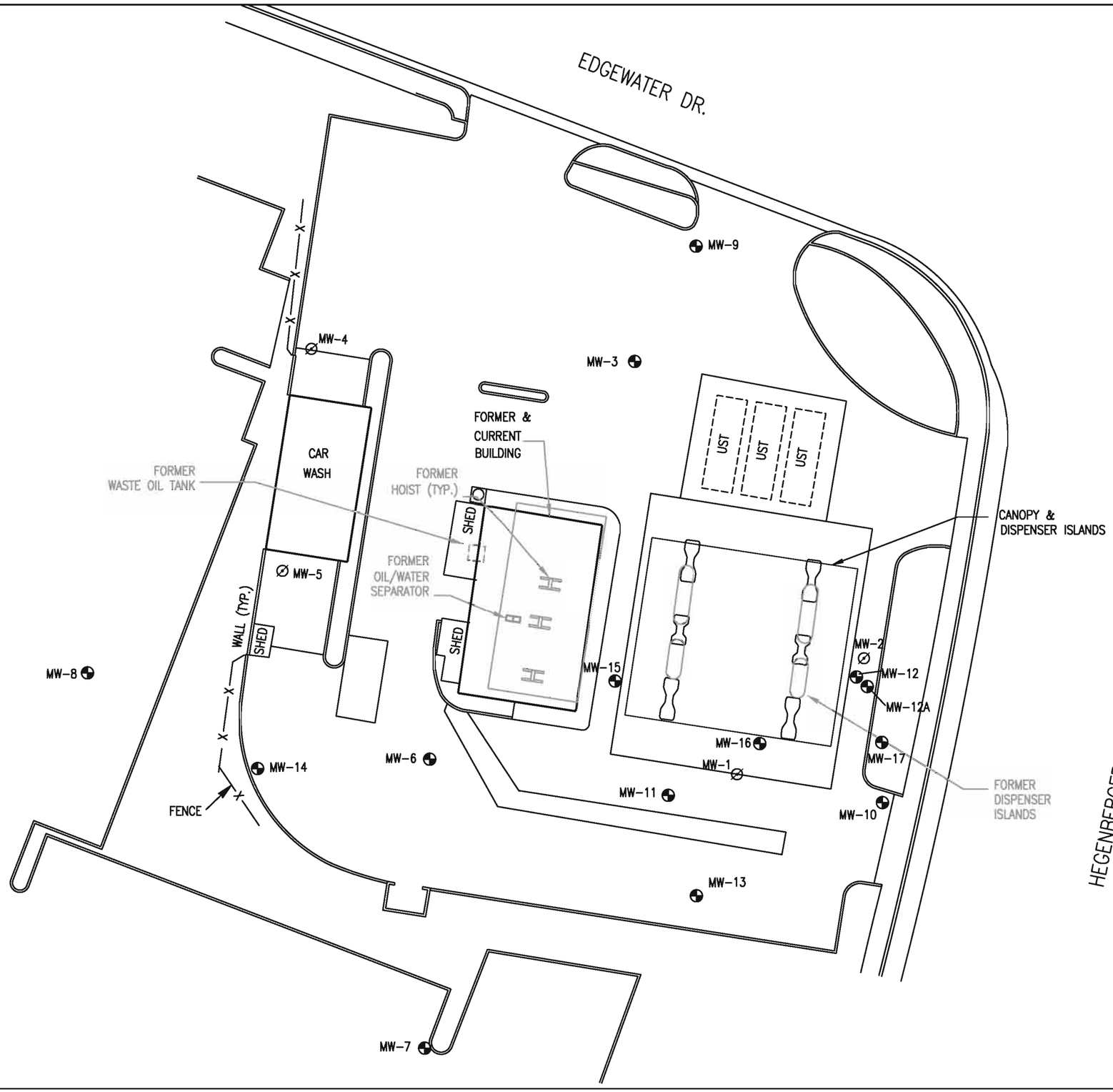
SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC MAP, OAKLAND EAST QUADRANGLE (1973)

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

antea group

LEGEND

- MW– MONITORING WELL
- MW– ABANDONED MONITORING WELL
- B– BORING LOCATION
- SOIL SAMPLE LOCATION

EDGEWATER DR.

MW-9
MW-4
MW-3
MW-5
MW-8
MW-14
MW-6
MW-7
MW-13
MW-1
MW-11
MW-16
MW-17
MW-10
MW-2
MW-12
MW-12A

SW7 SW6 SW5 SW4 SW8 SW8(6)
SW1 SW2 SW3
UST UST UST

FORMER & CURRENT BUILDING
CAR WASH
FORMER WASTE OIL TANK
FORMER HOIST (TYP.)
FBSW1 FB1
FBSW2 FB2/RF1
WO1 UH-1
FORMER OIL/WATER SEPARATOR
FBSW3 OWS-1 UH-2
FB3/RF2
FBSW4 FB4 HS-4-E UH-3 MW-15
HS-4-N HS-4-S HS-4-W
FS-1
SHED
WALL (TYP.)
FENCE
WE1 WE2 WE3
B2 B1 P4 D2/BD2 P2 D1/BD1 P3 BD4 P1 BD3 B4 B3
MW1SW1 MW1SW2 B-4
CANOPY & DISPENSER ISLANDS
FORMER DISPENSER ISLANDS
S1 S2 S3 S4
B-5 B-6
HEGENBERGER RD

North

0 30
SCALE IN FEET

FIGURE 3
SITE PLAN WITH HISTORICAL SAMPLE LOCATIONS

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

PROJECT NO.	PREPARED BY	DRAWN BY
142705191	DD	JH
DATE	REVIEWED BY	FILE NAME
08/24/11	DD	5191-SiteS

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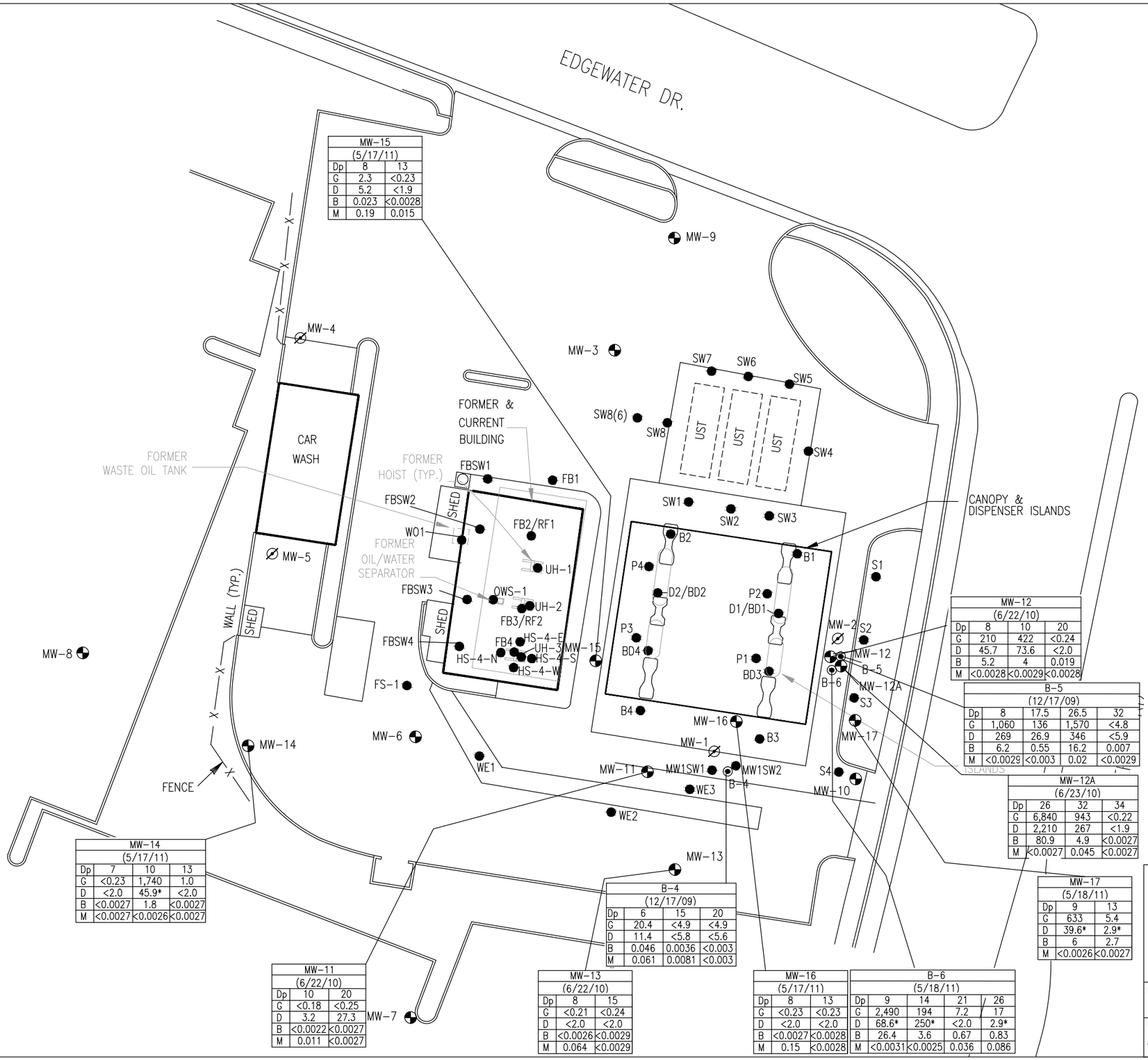

LEGEND

- MW- MONITORING WELL
- MW- ABANDONED MONITORING WELL
- B- BORING LOCATION
- SOIL SAMPLE LOCATION

MW-12	
(6/22/10)	
Dp	8
G	210
D	45.7
B	5.2
M	<0.0028

SAMPLE NAME
SAMPLE DATE
DEPTH (FEET)
TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
DIESEL RANGE ORGANICS WITH SILICA GEL
BENZENE
METHYL TERTIARY BUTYL ETHER

NOTES:

NA = NOT ANALYZED
< = LESS THAN LABORATORY INDICATED REPORTING LIMITS
* = RESULT DID NOT MATCH LABORATORY STANDARD

ALL CONCENTRATIONS IN MILLIGRAMS PER KILOGRAM (mg/kg).

FIGURE 4
SITE PLAN WITH HISTORICAL SAMPLE LOCATIONS AND CONCENTRATIONS
76 STATION NO. 5191/5043
449 HEGENBERGER ROAD
OAKLAND, CALIFORNIA

PROJECT NO.	PREPARED BY	DRAWN BY
142705191	EW	JH
DATE	REVIEWED BY	FILE NAME
08/24/11	DD	5191-SiteS

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EDGEWATER DR.

HEGENBERGER RD.

MW-1
MW-2
MW-3
MW-4
MW-5
MW-6
MW-7
MW-8
MW-9
MW-10
MW-11
MW-12
MW-12A
MW-13
MW-14
MW-15
MW-16
MW-17
B-4
B-5
B-6

COMPRESSOR
CAR WASH
FORMER & CURRENT BUILDING
FORMER WASTE OIL TANK
FORMER HOIST (TYP.)
FORMER OIL/WATER SEPARATOR
SHED
WALL (TYP.)
FENCE
ELECTRICAL TRANSFORMER
UST
CANOPY & DISPENSER ISLANDS
FORMER DISPENSER ISLANDS
METAL UTILITY

LEGEND

- MW- MONITORING WELL
- MW- ABANDONED MONITORING WELL
- B- BORING LOCATION
- T TELEPHONE
- SS SEWER
- W WATER
- ST STORM DRAIN
- E ELECTRIC
- G GAS
- SL STREET LIGHT

North

0 30

SCALE IN FEET

FIGURE 5
SITE PLAN WITH UTILITIES

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

PROJECT NO.	PREPARED BY	DRAWN BY
142705191	DD	JH
DATE	REVIEWED BY	FILE NAME
08/24/11	DD	5191-SiteS

anteagroup

Tables

TABLE 1

HISTORICAL SOIL ANALYTICAL RESULTS
76 Station No. 5191/5043
449 Hegenberger Raod, Oakland, California

Sample ID	Date	Sample Depth (feet)	TPHg (mg/kg)	TPHg* (mg/kg)	DRO (mg/kg)	DRO* (mg/Kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-benzene (mg/kg)	Total Xylenes (mg/kg)	MTBE (mg/kg)	TBA (mg/kg)	TAME (mg/kg)	DIPE (mg/kg)	ETBE (mg/kg)	Ethanol (mg/kg)	EDB (mg/kg)	1,2-DCA (mg/kg)	Lead (mg/kg)
P1	10/25/1991	3	**3,200**	NA	**420**	NA	**33**	**120**	**110**	**540**	NA	NA	NA	NA	NA	NA	NA	NA	NA
P2	10/25/1991	3	**9,000**	NA	**8,400**	NA	**46**	**120**	**330**	**1,500**	NA	NA	NA	NA	NA	NA	NA	NA	NA
P3	10/25/1991	3	**7,100**	NA	**1,100**	NA	**48**	**410**	**220**	**1,200**	NA	NA	NA	NA	NA	NA	NA	NA	NA
P4	10/25/1991	3	**370**	NA	**460**	NA	**7.4**	**39**	**12**	**77**	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW1(2.5)	2/5/1992	2.5	**14,000**	NA	**1,200**	NA	**160**	**680**	**470**	**2,400**	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW2(3.5)	2/5/1992	3.5	**9,000**	NA	**2,400**	NA	**74**	**440**	**280**	**1,400**	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW2(4.5)	2/5/1992	4.5	**31**	NA	**29**	NA	**2.4**	**0.14**	**3**	**9**	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW3(3)	2/5/1992	3	<1.0	NA	**49**	NA	<0.005	<0.005	<0.005	**0.011**	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW3(4.5)	2/5/1992	4.5	<1.0	NA	<1.0	NA	<0.005	<0.005	<0.005	<0.005	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW4(5)	8/21/1992	5	<1.0	NA	<1.0	NA	<0.005	<0.005	<0.005	**0.0066**	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW5(6)	8/21/1992	6	**340**	NA	**43**	NA	**1.1**	**1.2**	**7.8**	**13**	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW6(5)	8/21/1992	5	**3.7**	NA	**1.2**	NA	**0.9**	<0.005	**1**	**0.05**	NA	NA	NA	NA	NA	NA	NA	NA	NA
WO1	9/20/1994	9	<1.0	NA	NA	NA	<0.005	<0.005	<0.005	<0.005	NA	NA	NA	NA	NA	NA	NA	NA	5.0
MW9(3)	1/25/1995	3	**1.7**	NA	**2.6**	NA	**0.016**	<0.005	<0.005	<0.005	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW10(2.5)	1/25/1995	2.5	**44**	NA	**17**	NA	**2**	**1.5**	**2.3**	**5.4**	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW1	3/10/1995	8	**11**	NA	NA	NA	**2.8**	<0.005	**1.6**	**0.067**	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW2	3/10/1995	8	**11**	NA	NA	NA	**3.8**	<0.005	**0.79**	**0.034**	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW2(4)	3/10/1995	4	**2,000**	NA	**140**	NA	<0.005	**53**	**42**	**240**	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW3	3/10/1995	8	**1**	NA	<1.0	NA	**0.009**	**0.006**	**0.007**	**0.014**	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW4	3/10/1995	8	<1.0	NA	**1.8**	NA	<0.005	<0.005	<0.005	<0.005	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW5	3/10/1995	8	<1.0	NA	**1.4**	NA	<0.005	<0.005	<0.005	<0.005	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW6	3/10/1995	8	<1.0	NA	NA	NA	<0.005	<0.005	<0.005	<0.005	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW7	3/10/1995	8	<1.0	NA	NA	NA	<0.005	<0.005	<0.005	<0.005	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8	3/10/1995	8	**140**	NA	NA	NA	**2.6**	**5.3**	**2.7**	**12**	NA	NA	NA	NA	NA	NA	NA	NA	NA
D1	3/24/1995	3	**760**	NA	**46**	NA	**1.5**	**19**	**15**	**73**	NA	NA	NA	NA	NA	NA	NA	NA	NA
D2	3/24/1995	3	**1,200**	NA	**97**	NA	**1.6**	**16**	**22**	**110**	NA	NA	NA	NA	NA	NA	NA	NA	NA
B1	3/28/1995	6	<1.0	NA	<1.0	NA	**0.13**	**0.026**	**0.0088**	**0.059**	NA	NA	NA	NA	NA	NA	NA	NA	NA
B2	3/28/1995	6	**3.4**	NA	<1.0	NA	**2.8**	**0.041**	**0.19**	**0.28**	NA	NA	NA	NA	NA	NA	NA	NA	NA
B3	3/28/1995	6	<1.0	NA	<1.0	NA	<0.005	**0.01**	<0.005	**0.017**	NA	NA	NA	NA	NA	NA	NA	NA	NA
B4	3/28/1995	6	<1.0	NA	<1.0	NA	<0.005	**0.017**	<0.005	**0.032**	NA	NA	NA	NA	NA	NA	NA	NA	NA
BD1	3/28/1995	6	<1.0	NA	<1.0	NA	**0.21**	**0.011**	**0.018**	**0.038**	NA	NA	NA	NA	NA	NA	NA	NA	NA
BD2	3/28/1995	6	**12**	NA	**4.8**	NA	**2.6**	**0.68**	**0.56**	**1.7**	NA	NA	NA	NA	NA	NA	NA	NA	NA
BD3	3/28/1995	6	<1.0	NA	<1.0	NA	**0.012**	**0.014**	**0.012**	**0.043**	NA	NA	NA	NA	NA	NA	NA	NA	NA
BD4	3/28/1995	6	<1.0	NA	<1.0	NA	<0.005	**0.011**	**0.0072**	**0.037**	NA	NA	NA	NA	NA	NA	NA	NA	NA
S1	3/28/1995	4	**110**	NA	<1.0	NA	**3.5**	**0.61**	**7**	**13**	NA	NA	NA	NA	NA	NA	NA	NA	NA
S2	3/28/1995	4	**1.4**	NA	**9.4**	NA	**0.028**	**0.012**	**0.015**	**0.019**	NA	NA	NA	NA	NA	NA	NA	NA	NA
S3	3/28/1995	4	**22**	NA	**2.9**	NA	**1.2**	**1.2**	**0.65**	**1.9**	NA	NA	NA	NA	NA	NA	NA	NA	NA
S4	3/28/1995	4	**150**	NA	**5.8**	NA	**6.8**	**5.6**	**5.3**	**27**	NA	NA	NA	NA	NA	NA	NA	NA	NA
RF1	3/31/1995	3	**2,000**	NA	**330**	NA	**8.8**	**68**	**55**	**280**	NA	NA	NA	NA	NA	NA	NA	NA	NA
RF2	3/31/1995	3	**3,300**	NA	**230**	NA	**18**	**160**	**110**	**550**	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8(6)	4/3/1995	8	<1.0	NA	<1.0	NA	**0.0085**	<0.005	**0.0084**	**0.011**	NA	NA	NA	NA	NA	NA	NA	NA	NA
FB1	4/3/1995	4.5	**25**	NA	**8.6**	NA	**2.1**	**0.058**	**2.2**	**1.3**	NA	NA	NA	NA	NA	NA	NA	NA	NA
FB2	4/3/1995	4.5	**7.1**	NA	**1.6**	NA	**0.4**	**0.018**	**0.81**	**1.7**	NA	NA	NA	NA	NA	NA	NA	NA	NA
FB3	4/3/1995	4.5	**1.6**	NA	<1.0	NA	**0.028**	<0.005	**0.13**	**0.26**	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 1

HISTORICAL SOIL ANALYTICAL RESULTS
76 Station No. 5191/5043
449 Hegenberger Raod, Oakland, California

Sample ID	Date	Sample Depth (feet)	TPHg (mg/kg)	TPHg* (mg/kg)	DRO (mg/kg)	DRO* (mg/Kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-benzene (mg/kg)	Total Xylenes (mg/kg)	MTBE (mg/kg)	TBA (mg/kg)	TAME (mg/kg)	DIPE (mg/kg)	ETBE (mg/kg)	Ethanol (mg/kg)	EDB (mg/kg)	1,2-DCA (mg/kg)	Lead (mg/kg)
FB4	4/3/1995	4.5	**1.4**	NA	<1.0	NA	**0.23**	**0.022**	**0.05**	**0.15**	NA	NA	NA	NA	NA	NA	NA	NA	NA
FBSW1	4/3/1995	3	**7.4**	NA	**1.3**	NA	**0.066**	**0.021**	**1**	**<0.005**	NA	NA	NA	NA	NA	NA	NA	NA	NA
FBSW2	4/3/1995	3	**70**	NA	**7.6**	NA	**0.11**	**0.096**	**2.1**	**6.7**	NA	NA	NA	NA	NA	NA	NA	NA	NA
FBSW3	4/3/1995	3	**2.3**	NA	**7.8**	NA	**0.012**	**0.01**	**0.018**	**0.012**	NA	NA	NA	NA	NA	NA	NA	NA	NA
FBSW4	4/3/1995	3	**9**	NA	**3.7**	NA	**0.25**	**0.036**	**0.93**	**0.062**	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW1SW1	4/5/1995	5	**25**	NA	**2.8**	NA	**2.1**	**0.025**	**2.4**	**0.19**	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW1SW2	4/5/1995	5	**4.2**	NA	**1.2**	NA	**0.17**	**0.01**	**0.68**	**0.048**	NA	NA	NA	NA	NA	NA	NA	NA	NA
WE1	4/5/1995	4.5	**26**	NA	**3.4**	NA	**0.31**	**0.3**	**0.59**	**2.6**	NA	NA	NA	NA	NA	NA	NA	NA	NA
WE2	4/5/1995	4.5	**2.7**	NA	**5.1**	NA	**0.0054**	**0.0065**	**0.038**	**0.17**	NA	NA	NA	NA	NA	NA	NA	NA	NA
WE3	4/5/1995	4.5	**8.2**	NA	**1.6**	NA	**0.21**	**0.074**	**1.6**	**0.0076**	NA	NA	NA	NA	NA	NA	NA	NA	NA
FS-1	4/5/1995	4	**12**	NA	<1.0	NA	**0.28**	<0.005	**1.5**	**0.016**	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW8(6)	4/21/1997	6	**1.3**	NA	<1.0	NA	**0.0051**	<0.005	**0.015**	**0.041**	<0.005	NA	NA	NA	NA	NA	NA	NA	NA
Delta 2009																			
B-4@6	12/17/2009	6	**20.4**	NA	**11.4**	**10.1**	**0.046**	**0.18**	**1**	**4.2**	**0.061**	**0.091**	<0.0029	<0.0029	<0.0029	<0.0029	<0.0029	<0.0029	NA
B-4@15	12/17/2009	15	<4.9	NA	<5.8	<5.8	**0.0036**	**0.0069**	**0.011**	**0.049**	**0.0081**	**0.036**	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	NA
B-4@20	12/17/2009	20	<4.9	NA	<5.6	<5.6	<0.003	<0.003	<0.003	<0.006	<0.003	<0.015	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	NA
B-5@8	12/17/2009	8	**1,060**	NA	**285**	**269**	**6.2**	**21.6**	**30.9**	**143**	<0.0029	**0.079**	**0.068**	<0.0029	<0.0029	<0.0029	<0.0029	<0.0029	NA
B-5@17.5	12/17/2009	17.5	**136**	NA	**27.8**	**26.9**	**0.55**	**1.4**	**2.7**	**15.8**	<0.003	**0.035**	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	NA
B-5@26.5	12/17/2009	26.5	**1,570**	NA	**338**	**346**	**16.2**	**73.5**	**52.8**	**255**	**0.02**	**0.11**	<0.0028	<0.0028	<0.0028	<0.0028	<0.0028	<0.0028	NA
B-5@32	12/17/2009	32	<4.8	NA	<5.9	<5.9	**0.007**	**0.0087**	**0.0057**	**0.031**	<0.0029	<0.015	<0.0029	<0.0029	<0.0029	<0.0029	<0.0029	<0.0029	NA
Delta 2010																			
MW-11@10	6/22/2010	10	NA	<0.18	NA	**3.2**	<0.0022	<0.0022	<0.0022	<0.0066	**0.011**	<0.011	<0.0022	<0.0022	<0.0022	<0.0022	<0.0022	<0.0022	**6.1**
MW-11@20	6/22/2010	20	NA	<0.25	NA	**27.3**	<0.0027	<0.0027	<0.0027	<0.0081	<0.0027	<0.013	<0.0027	<0.0027	<0.0027	<0.0027	<0.0027	<0.0027	**3.4**
MW-12@8	6/22/2010	8	NA	**210**	NA	**45.7**	**5.2**	**9.1**	**6.7**	**33.3**	<0.0028	**0.021**	<0.0028	<0.0028	<0.0028	<0.0028	<0.0028	<0.0028	**8.6**
MW-12@10	6/22/2010	10	NA	**422**	NA	**73.6**	**4**	**3.5**	**11.0**	**31.4**	<0.0029	<0.015	**0.023**	<0.0029	<0.0029	<0.0029	<0.0029	<0.0029	**9.5**
MW-12@20	6/22/2010	20	NA	<0.24	NA	<2.0	**0.019**	<0.0028	<0.0028	<0.0085	<0.0028	<0.014	<0.0028	<0.0028	<0.0028	<0.0028	<0.0028	<0.0028	**6.6**
MW-12A@26	6/23/2010	26	NA	**6,840**	NA	**2,210**	**80.9**	**232**	**178**	**607**	<0.0027	<0.014	<0.0027	<0.0027	<0.0027	<0.0027	<0.0027	<0.0027	**13.1**
MW-12A@32	6/23/2010	32	NA	**943**	NA	**267**	**4.9**	**15.5**	**12.0**	**42.6**	**0.045**	**0.044**	**0.048**	<0.0028	<0.0028	<0.0028	<0.0028	<0.0028	**6.6**
MW-12A@34	6/23/2010	34	NA	<0.22	NA	<1.9	<0.0027	**0.0097**	**0.0074**	**0.033**	<0.0027	<0.013	<0.0027	<0.0027	<0.0027	<0.0027	<0.0027	<0.0027	**4.9**
MW-13@8	6/22/2010	8	NA	<0.21	NA	<2.0	<0.0026	<0.0026	<0.0026	<0.0077	**0.064**	<0.013	<0.0026	<0.0026	<0.0026	<0.0026	<0.0026	<0.0026	**3.6**
MW-13@15	6/22/2010	15	NA	<0.24	NA	<2.0	<0.0029	<0.0029	<0.0029	<0.0087	<0.0029	<0.014	<0.0029	<0.0029	<0.0029	<0.0029	<0.0029	<0.0029	**5.9**
Antea Group 2011																			
MW-14d7	5/17/2011	7	NA	<0.23	<2.0	<2.0	<0.0027	<0.0027	<0.0027	<0.0081	<0.0027	<0.014	<0.0027	<0.0027	<0.0027	<0.36	<0.0027	<0.0027	**6.6**
MW-14d10	5/17/2011	10	NA	**1,740**	**45.5 1n**	**45.9 1n**	**1.8**	**0.2**	**44**	**140**	<0.0026	<0.013	<0.0026	<0.0026	<0.0026	<0.34	<0.0026	<0.0026	**7**
MW-14d13	5/17/2011	13	NA	**1**	<2.0	<2.0	<0.0027	<0.0027	**0.037**	**0.066**	<0.0027	<0.014	<0.0027	<0.0027	<0.0027	<0.36	<0.0027	<0.0027	**6.6**
MW-15d8	5/17/2011	8	NA	**2.3**	**6.2**	**5.2**	**0.023**	<0.0038	**1.9**	**0.25**	**0.19**	**0.16**	<0.0038	<0.0038	<0.0038	<0.51	<0.0038	<0.0038	**7**
MW-15d13	5/17/2011	13	NA	<0.23	<1.9	<1.9	<0.0028	<0.0028	<0.0028	<0.0083	**0.015**	**0.022**	<0.0028	<0.0028	<0.0028	<0.37	<0.0028	<0.0028	**7**
MW-16d8	5/17/2011	8	NA	<0.23	<2.0	<2.0	<0.0027	<0.0027	<0.0027	<0.0081	**0.15**	**0.014**	<0.0027	<0.0027	<0.0027	<0.36	<0.0027	<0.0027	**5.7**
MW-16d13	5/17/2011	13	NA	<0.23	<2.0	<2.0	<0.0028	<0.0028	<0.0028	<0.0084	<0.0028	<0.014	<0.0028	<0.0028	<0.0028	<0.37	<0.0028	<0.0028	**5.5**
MW-17d9	5/18/2011	9	NA	**633**	**39.6 1n**	**36.7 1n**	**6**	**14.1**	**17.9**	**58**	<0.0026	**0.03**	<0.0026	<0.0026	<0.0026	<0.35	<0.0026	<0.0026	**16.3**
MW-17d13	5/18/2011	13	NA	**5.4**	**2.9 1n**	**2.5 1n**	**2.7**	**0.46**	**1.4**	**2.8**	<0.0027	**0.029**	<0.0027	<0.0027	<0.0027	<0.36	<0.0027	<0.0027	**6.4**
B-6d9	5/18/2011	9	NA	**2,490**	**72.0 1n**	**68.6 1n**	**26.4**	**73.9**	**58.1**	**230**	<0.0031	<0.015	<0.0031	<0.0031	<0.0031	<0.41	<0.0031	<0.0031	**10.1**
B-6d14	5/18/2011	14	NA	**194**	**258 1n**	**250 1n**	**3.6**	**5.1**	**5.1**	**22**	<0.0025	<0.013	<0.0025	<0.0025	<0.0025	<0.33	<0.0025	<0.0025	**9.2**
B-6d21	5/18/2011	21	NA	**7.2**	<2.0	<2.0	**0.67**	**0.86**	**0.25**	**0.94**	**0.036**	**0.014**	<0.0027	<0.0027	<0.0027	<0.37	<0.0027	<0.0027	**6.8**
B-6d26	5/18/2011	26	NA	**17**	**3.4 1n**	**2.9 1n**	**0.83**	**1.2**	**0.46**	**1.7**	**0.086**	**0.021**	<0.0026	<0.0026	<0.0026	<0.34	<0.0026	<0.0026	**6.6**

Notes:
TPHg = total petroleum hydrocarbons as gasoline by EPA Method 8015
TPHg* = total petroleum hydrocarbons as gasoline by CA LUFT
DRO = Diesel Range Organics by EPA Method 8015B
DRO* = Diesel Range Organics by EPA Method 8015 Silica Gel Treated
BTEX = benzene, toluene, ethylbenzene, total xylenes by EPA Method 8260B
MTBE = methyl tertiary-butyl ether by EPA Method 8260
TBA = tertiary-butyl alcohol by EPA Method 8260
TAME = tert-amyl methyl ether by EPA Method 8260
DIPE = Diisopropyl ether by EPA Method 8260
ETBE = Ethyl-tert-butyl-ether by EPA Method 8260
EDB = 1,2-Dibromoethane by EPA Method 8260
1,2-DCA = 1,2-Dichloroethane by EPA Method 8260
mg/kg = milligrams per kilogram
NA = not applicable

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)
MW-3	6/2/2011	10.81	2.43	NP	8.38	**155 1n**	**283**	**0.58**	**1.3**	<0.50	**2.2**	**42.1**	**55.7**	<250
MW-6	6/2/2011	11.55	2.76	NP	8.79	**33700 1n**	**56200**	**780**	**262**	**651**	**3890**	**6.7**	**81.0**	<250
MW-7	6/2/2011	11.64	3.90	NP	7.74	**63.0 1n**	<50.0	<0.50	<0.50	<0.50	<1.5	<0.50	<5.0	<250
MW-8	6/2/2011	11.32	2.77	NP	8.55	**168 1n**	<50.0	<0.50	<0.50	<0.50	<1.5	<0.50	<5.0	<250
MW-9	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
MW-10	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
MW-11	6/2/2011	10.53	1.75	NP	8.78	**69.0 1n**	<50.0	<0.50	**0.61**	<0.50	<1.5	**24.9**	**7.1**	<250
MW-12	6/2/2011	11.01	4.40	NP	6.61	**1330 1n**	**12200**	**688**	**70.5**	**225**	**619**	**824**	**110**	<250
MW-12A	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
MW-13	6/2/2011	11.08	3.98	NP	7.10	**89.9 1n**	**260 2n**	<0.50	<0.50	<0.50	<1.5	**228**	**44.7**	<250
MW-14	6/2/2011	12.00	3.58	NP	8.42	**4180 1n**	**51600**	**2750**	**67.9**	**1790**	**13400**	**1.9**	**27.2**	<250
MW-15	6/2/2011	11.11	2.50	NP	8.61	**124 1n**	**357**	<0.50	<0.50	<0.50	<1.5	**15.2**	**6.4**	<250
MW-16	6/2/2011	10.98	3.00	NP	7.98	**509 1n**	**1420 2n**	**79.4**	<0.50	**4.2**	<1.5	**1200**	**257**	<250
MW-17	6/2/2011	11.52	5.78	NP	5.74	**687 1n**	**9130**	**2530**	**960**	**35.1**	**907**	**0.74**	**366**	<250

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

Analytical Notes:
Bold - Above laboratory's indicated reporting limit
< - Below laboratory's indicated reporting limit
ug/L - micrograms/liter
DRO- diesel range organics
TPHg - Total petroleum hydrocarbons as gasoline
MTBE- Methyl tertiary-butyl ether
TBA- Tertiary-butyl alcohol
1n - The DRO result for this sample did not match the laboratory standard for diesel.
2n - 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

Appendix A

Well Installation Permit

Alameda County Public Works Agency - Water Resources Well Permit

399 Elmhurst Street
Hayward, CA 94544-1395
Telephone: (510)670-6633 Fax:(510)782-1939

Application Approved on: 03/29/2011 By jamesy

Permit Numbers: W2011-0193 to W2011-0197
Permits Valid from 05/16/2011 to 05/18/2011

Application Id: 1299782323694
City of Project Site: Oakland
Site Location: 449 Hegenberger Rd, Oakland, CA
Project Start Date: 04/04/2011
Completion Date: 04/07/2011
Assigned Inspector: Contact Vicky Hamlin at (510) 670-5443 or vickyh@acpwa.org
Extension Start Date: 05/16/2011
Extension End Date: 05/18/2011
Extension Count: 1
Extended By: vickyh1

Applicant: Antea Group - Ed Weyrens
11050 White Rock Rd, Ste 110, Rancho Cordova, CA 95670
Phone: 916-288-0154

Property Owner: Pacific Convenience and Fuels
2603 Camino Ramon, Ste 350, San Ramon, CA 94583
Phone: 925-884-0860

Client: ** same as Property Owner **

Total Due: $1853.00
Receipt Number: WR2011-0093 **Total Amount Paid:** $1853.00
Payer Name : Antea Group Paid By: CHECK **PAID IN FULL**

Works Requesting Permits:

Well Construction-Monitoring-Monitoring - 4 Wells
Driller: Gregg - Lic #: 485165 - Method: other

Work Total: $1588.00

Specifications

Permit #	Issued Date	Expire Date	Owner Well Id	Hole Diam.	Casing Diam.	Seal Depth	Max. Depth
W2011-0193	03/29/2011	07/03/2011	MW14	8.00 in.	2.00 in.	4.50 ft	15.00 ft
W2011-0194	03/29/2011	07/03/2011	MW15	8.00 in.	2.00 in.	4.50 ft	15.00 ft
W2011-0195	03/29/2011	07/03/2011	MW16	8.00 in.	2.00 in.	4.50 ft	15.00 ft
W2011-0196	03/29/2011	07/03/2011	MW17	8.00 in.	2.00 in.	4.50 ft	15.00 ft

Specific Work Permit Conditions

1. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.

2. Permittee, permittee's contractors, consultants or agents shall be responsible to assure that all material or waters generated during drilling, boring destruction, and/or other activities associated with this Permit will be safely handled, properly managed, and disposed of according to all applicable federal, state, and local statutes regulating such. In no case shall these materials and/or waters be allowed to enter, or potentially enter, on or off-site storm sewers, dry wells, or waterways or be allowed to move off the property where work is being completed.

3. Prior to any drilling activities, it shall be the applicant's responsibility to contact and coordinate an Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits or agreements required for that Federal, State, County or City, and follow all City or County Ordinances. No work shall begin until all the permits and requirements have been approved or obtained. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County an Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the

permits and requirements have been approved or obtained.

4. Compliance with the well-sealing specifications shall not exempt the well-sealing contractor from complying with appropriate State reporting-requirements related to well construction or destruction (Sections 13750 through 13755 (Division 7, Chapter 10, Article 3) of the California Water Code). Contractor must complete State DWR Form 188 and mail original to the Alameda County Public Works Agency, Water Resources Section, within 60 days. Including permit number and site map.

5. Applicant shall submit the copies of the approved encroachment permit to this office within 60 days.

6. Applicant shall contact Vicky Hamlin for an inspection time at 510-670-5443 or email to vickyh@acpwa.org at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.

7. Wells shall have a Christy box or similar structure with a locking cap or cover. Well(s) shall be kept locked at all times. Well(s) that become damaged by traffic or construction shall be repaired in a timely manner or destroyed immediately (through permit process). No well(s) shall be left in a manner to act as a conduit at any time.

8. Minimum surface seal thickness is two inches of cement grout placed by tremie

9. Minimum seal (Neat Cement seal) depth for monitoring wells is 5 feet below ground surface(BGS) or the maximum depth practicable or 20 feet.

10. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of $500.00.

Borehole(s) for Investigation-Geotechnical Study/CPT's - 1 Boreholes
Driller: Gregg - Lic #: 485165 - Method: other **Work Total: $265.00**

Specifications

Permit Number	Issued Dt	Expire Dt	# Boreholes	Hole Diam	Max Depth
W2011-0197	03/29/2011	07/03/2011	1	2.00 in.	26.00 ft

Specific Work Permit Conditions

1. Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings. All cuttings remaining or unused shall be containerized and hauled off site.

2. Boreholes shall not be left open for a period of more than 24 hours. All boreholes left open more than 24 hours will need approval from Alameda County Public Works Agency, Water Resources Section. All boreholes shall be backfilled according to permit destruction requirements and all concrete material and asphalt material shall be to Caltrans Spec or County/City Codes. No borehole(s) shall be left in a manner to act as a conduit at any time.

3. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.

4. Prior to any drilling activities, it shall be the applicant's responsibility to contact and coordinate an Underground

Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits or agreements required for that Federal, State, County or City, and follow all City or County Ordinances. No work shall begin until all the permits and requirements have been approved or obtained. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County an Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.

5. Applicant shall contact Vicky Hamlin for an inspection time at 510-670-5443 or email to vickyh@acpwa.org at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.

6. Permittee, permittee's contractors, consultants or agents shall be responsible to assure that all material or waters generated during drilling, boring destruction, and/or other activities associated with this Permit will be safely handled, properly managed, and disposed of according to all applicable federal, state, and local statutes regulating such. In no case shall these materials and/or waters be allowed to enter, or potentially enter, on or off-site storm sewers, dry wells, or waterways or be allowed to move off the property where work is being completed.

7. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of $500.00.

8. Permit is valid only for the purpose specified herein. No changes in construction procedures, as described on this permit application. Boreholes shall not be converted to monitoring wells, without a permit application process.

Appendix B

Boring Logs, Well Construction Details, and DWR Well Completion Reports

anteagroup

Project No:	I42705191	Client:	COP-ELT
Logged By:	ETW	Location:	449 Hegenberger Road
Driller:	Gregg Drilling	Date Drilled:	5/18/2011
Drilling Method:	Direct Push	Hole Diameter:	3"
Sampling Method:	Direct Push	Hole Depth:	26'
Casing Type:		Well Diameter:	
Slot Size:		Well Depth:	
Gravel Pack:		▼ First Water Depth:	7.5'
		▽ Static Water Depth:	
Elevation:		Northing:	Easting:

Boring/Well No: B-6
Page 1 of 2

Location Map

Well Completion (Backfill / Casing)	Water Level	Moisture Content	PID Reading (ppm)	Sample Identification	Depth (feet)	Sample Recovery	Sample Interval	Soil Type	LITHOLOGY / DESCRIPTION
					0				Asphalt (6" Thick)
									AB
					1				Rocky Fill, 50% sand, 25% gravel, 25% clay,
									brown, moist, gravel is angular, sand is 50% fine
					2				50% coarse
								CL	**Lean Clay**; 95% clay, 5% fine sand, black, moist,
					3				medium plasticity, no odor
					4				
					5				
					6				
					7	X			
	▼					X			
					8	X		CL	**Lean Clay**; 85% clay, 15% fine sand, black, wet,
			28.1	B-6d9	9	X	O		medium plasticity, strong odor
						X			
					10	X			
						X			
					11	X			
						X			
					12	X		CL	**Lean Clay**; 95% clay, 5% fine sand, moist, black,
						X			medium plasticity, strong odor
					13	X			Change to light green color
			42.6	B-6d14		X	O		Black color at 13.5 feet, wet
					14	X			Light green color at 14 feet, moist
						X			
					15	X			
						X			
					16	X			
						X			
					17	X			Change to light brown color, moist
						X			
					18	X			
						X			
					19	X			
						X			
					20	X			
			21.9	B-6d21		X	O	CL	**Lean Clay**; 95% clay, 5% fine sand, light brown,
					21	X			moist, medium plasticity, strong odor
						X			
					22	X			

anteagroup

Project No:	I42705191	Client:	COP-ELT
Logged By:	ETW	Location:	449 Hegenberger Road
Driller:	Gregg Drilling	Date Drilled:	5/18/2011
Drilling Method:	Direct Push	Hole Diameter:	3"
Sampling Method:	Direct Push	Hole Depth:	26'
Casing Type:		Well Diameter:	
Slot Size:		Well Depth:	
Gravel Pack:		▼ First Water Depth:	7.5'
		▽ Static Water Depth:	

Boring/Well No: B-6
Page 2 of 2

Location Map

Elevation: Northing: Easting:

Well Completion (Backfill / Casing)	Water Level	Moisture Content	PID Reading (ppm)	Sample Identification	Depth (feet)	Sample Recovery	Sample Interval	Soil Type	LITHOLOGY / DESCRIPTION
					23	X		CL	
						X			
					24	X			
						X			
					25	X			
						X		SC	**Clayey sand**; 55% fine sand, 45% clay, light brown
			84.6	B-6d26	26	X	O		wet, strong odor
									Total Depth explored = 26 feet
					27				
					28				
					29				
					30				
					31				
					32				
					33				
					34				
					35				
					36				
					37				
					38				
					39				
					40				
					41				
					42				
					43				
					44				

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STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED

anteagroup

Project No:	I42705191	Client:	COP-ELT
Logged By:	ETW	Location:	449 Hegenberger Road
Driller:	Gregg Drilling	Date Drilled:	5/17/2011
Drilling Method:	HSA	Hole Diameter:	8"
Sampling Method:	Direct Push	Hole Depth:	13'
Casing Type:	Sch. 40 PVC	Well Diameter:	2"
Slot Size:	0.02	Well Depth:	13'
Gravel Pack:	#3	▼ First Water Depth:	7.5'
		▽ Static Water Depth:	

Boring/Well No:MW-14
Page 1 of 1

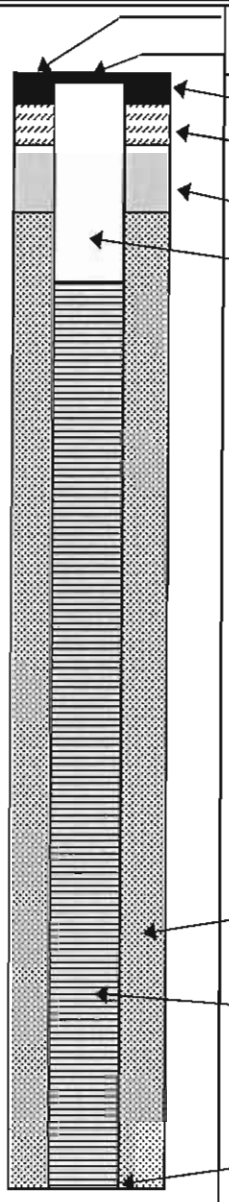
Location Map

Elevation: Northing: Easting:

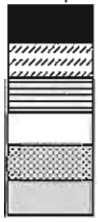
Well Completion (Backfill / Casing)	Water Level	Moisture Content	PID Reading (ppm)	Sample Identification	Depth (feet)	Sample Recovery	Sample Interval	Soil Type	LITHOLOGY / DESCRIPTION
									Asphalt (6" Thick)
					1				Class II AB
									Rocky Fill
					2				
					3			SC	**Clayey sand**; 55% fine sand, 45% clay,
									Olive green, moist, no odor
					4				
					5				
					6	X			
						X			
	▼		38.4	MW-14d7	7	X	O		Wet
						X		CL	**Lean Clay**; 90% clay, 10% fine sand, black, wet,
					8	X			medium plasticity, slight odor
						X			
					9	X			
						X			
			43.6	MW-14d10	10	X	O		
						X			
					11	X			Brown from 11 to 12 feet
						X			Organics material, plant roots
					12	X			
			56.3	MW-14d13		X	O		Black at 13 feet, strong odor
					13				
					14				
					15				
					16				
					17				
					18				
					19				
					20				
					21				
					22				

Project Name and Location:
76 Station No. 5191/5043
Site Address: 449 Hegenberger Road
City, State: Oakland, California

DEPTH (ft bgs)	MW-14 CONSTRUCTION DETAIL5



Total Depth of boring at 20 feet below ground surface (bgs)



Concrete
Bentonite Grout
Two inch diameter 0.02-inch Slotted PVC Screen
Two inch diameter PVC well casing grouted in place
RMC Lonestar Sand #3 Filter Pack
Bentonite Chip Seal

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STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED

anteagroup

Project No:	I42705191	Client:	COP-ELT
Logged By:	ETW	Location:	449 Hegenberger Road
Driller:	Gregg Drilling	Date Drilled:	5/17/2011
Drilling Method:	HSA	Hole Diameter:	8"
Sampling Method:	Direct Push	Hole Depth:	13'
Casing Type:	Sch. 40 PVC	Well Diameter:	2"
Slot Size:	0.02	Well Depth:	13'
Gravel Pack:	#3	First Water Depth:	4.5'
		Static Water Depth:	

Boring/Well No:MW-15
Page 1 of 1

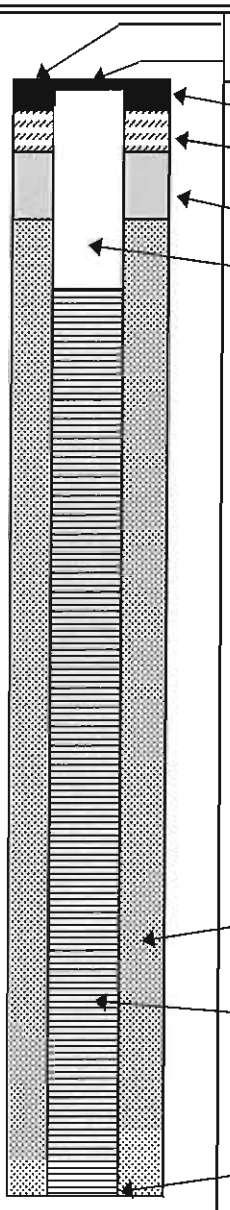
Location Map

Elevation: Northing: Easting:

Well Completion (Backfill / Casing)	Water Level	Moisture Content	PID Reading (ppm)	Sample Identification	Depth (feet)	Sample Recovery	Sample Interval	Soil Type	LITHOLOGY / DESCRIPTION
									Asphalt (6" Thick)
					1				Class II AB
									Rocky Fill
					2				
					3				
					4				
	▼								Wet
					5				
					6				
					7	X			
						X			
			18.7	MW-15d8	8	X	O	CL	**Lean Clay**; 95% clay, 5% fine sand, black, wet, medium plasticity, no odor
					9	X			
						X			
					10	X			
						X			
					11	X			
						X			Organic material, plant roots
					12	X			
			37.1	MW-15d13		X	O		
					13				
					14				
					15				
					16				
					17				
					18				
					19				
					20				
					21				
					22				

Project Name and Location:
76 Station No. 5191/5043
Site Address: 449 Hegenberger Road
City, State: Oakland, California

DEPTH (ft bgs)	MW-15 CONSTRUCTION DETAILS



0 GROUND SURFACE

Flush Mounted Well Box
Locking Well Cap

1

Concrete = 0 ft. to 0.5 ft.

Bentonite Grout = 0.5 ft. to 1 ft.

2

3

Bentonite Seal = 1 ft. to 2 ft.
2" Sch. 40 blank PVC casing
set from 0 ft. to 3 ft.

RMC Lonestar Sand #3 Filter Pack
set from 2 ft. to 13 ft.

2" Sch. 40, 0.02-inch slotted PVC screen
set from 3 ft. to 13 ft.

Threaded PVC End Cap

13

Total Depth of boring at 20 feet below ground surface (bgs)

- Concrete
- Bentonite Grout
- Two inch diameter 0.02-inch Slotted PVC Screen
- Two inch diameter PVC well casing grouted in place
- RMC Lonestar Sand #3 Filter Pack
- Bentonite Chip Seal

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STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

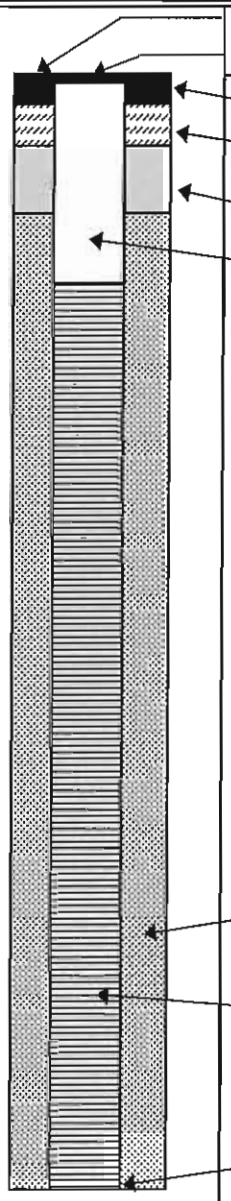
REMOVED

anteagroup	Project No: I42705191	Client: COP-ELT		**Boring/Well No:MW-16**	
	Logged By: ETW	Location: 449 Hegenberger Road		Page 1 of 1	
	Driller: Gregg Drilling	Date Drilled: 5/17/2011		Location Map	
	Drilling Method: HSA	Hole Diameter: 8"			
	Sampling Method: Direct Push	Hole Depth: 13'			
	Casing Type: Sch. 40 PVC	Well Diameter: 2"			
	Slot Size: 0.02	Well Depth: 13'			
	Gravel Pack: #3	▼ First Water Depth: 5'			
		▽ Static Water Depth:			
	Elevation:	Northing:		Easting:	

Well Completion (Backfill / Casing)	Water Level	Moisture Content	PID Reading (ppm)	Sample Identification	Depth (feet)	Sample Recovery	Sample Interval	Soil Type	LITHOLOGY / DESCRIPTION
									Concrete (12" Thick)
					1				Class II AB
									Rocky Fill
					2				Moist
					3				
					4				
	▼				5				Wet
					6				
					7	X			
						X			
			9.6	MW-16d8	8	X	O	CL	**Lean Clay**; 95% clay, 5% fine sand, black, wet, medium plasticity, no odor
					9	X			
						X			
					10	X			
						X			
					11	X			
						X			Olive green color
					12	X			No odor
			10.1	MW-16d13	13	X	O		
					14				
					15				
					16				
					17				
					18				
					19				
					20				
					21				
					22				

Project Name and Location:
76 Station No. 5191/5043
Site Address: 449 Hegenberger Road
City, State: Oakland, California

DEPTH (ft bgs)	MW-16 CONSTRUCTION DETAILS
0	GROUND SURFACE
1	
2	
3	
13	



Flush Mounted Well Box
Locking Well Cap
Concrete = 0 ft. to 0.5 ft.
Bentonite Grout = 0.5 ft. to 1 ft.
Bentonite Seal = 1 ft. to 2 ft.
2" Sch. 40 blank PVC casing set from 0 ft. to 3 ft.
RMC Lonestar Sand #3 Filter Pack set from 2 ft. to 13 ft.
2" Sch. 40, 0.02-inch slotted PVC screen set from 3 ft. to 13 ft.
Threaded PVC End Cap

Total Depth of boring at 20 feet below ground surface (bgs)

- Concrete
- Bentonite Grout
- Two inch diameter 0.02-inch Slotted PVC Screen
- Two inch diameter PVC well casing grouted in place
- RMC Lonestar Sand #3 Filter Pack
- Bentonite Chip Seal

CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED

anteagroup

Project No:	I42705191	Client:	COP-ELT
Logged By:	ETW	Location:	449 Hegenberger Road
Driller:	Gregg Drilling	Date Drilled:	5/18/2011
Drilling Method:	HSA	Hole Diameter:	8"
Sampling Method:	Direct Push	Hole Depth:	13'
Casing Type:	Sch. 40 PVC	Well Diameter:	2"
Slot Size:	0.02	Well Depth:	13'
Gravel Pack:	#3	▼ First Water Depth:	
		▽ Static Water Depth:	

Boring/Well No:MW-17
Page 1 of 1

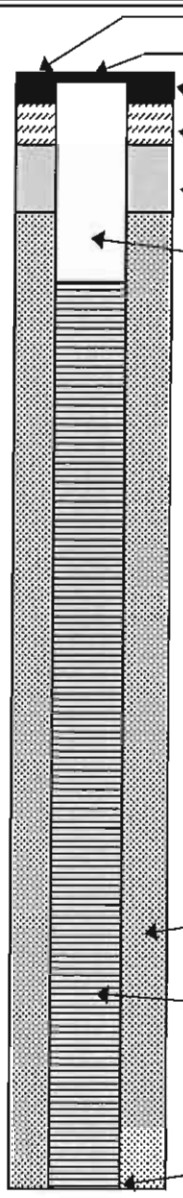
Location Map

Elevation: Northing: Easting:

Well Completion (Backfill / Casing)	Water Level	Moisture Content	PID Reading (ppm)	Sample Identification	Depth (feet)	Sample Recovery	Sample Interval	Soil Type	LITHOLOGY / DESCRIPTION
					1				Top Soil and fill
					2			CL	**Lean Clay**; 95% clay, 5% fine sand, black, moist, medium plasticity, no odor
					3				
					4				
					5				Wet
					6				
					7	X			
					8	X			
						X			Olive green color, slight odor
			23.7	MW-17d9	9	X	O		
					10				
					11	X			
					12	X			wet
						X			
			28.4	MW-17d13	13	X	O		Black color, slight odor
					14				
					15				
					16				
					17				
					18				
					19				
					20				
					21				
					22				

Project Name and Location:
76 Station No. 5191/5043
Site Address: 449 Hegenberger Road
City, State: Oakland, California

DEPTH (ft bgs)	MW-17 CONSTRUCTION DETAILS



Total Depth of boring at 20 feet below ground surface (bgs)

- Concrete
- Bentonite Grout
- Two inch diameter 0.02-inch Slotted PVC Screen
- Two inch diameter PVC well casing grouted in place
- RMC Lonestar Sand #3 Filter Pack
- Bentonite Chip Seal

Appendix C

Certified Laboratory Analytical Reports and Data Validation Forms

Is the Data Set Valid? (circle)	Preservation Temperature (if Known): 1.4, 1.5, 1.8, 2.8 °C
Yes / No	

Antea™ Group Laboratory Data Validation Sheet

Project/Client: 76 Station No. 5191 / COP-ELT
Project #: I42705191
Date of Validation: 6-20-11 **Date of Analysis:** 6-3-11 to 6-17-11
Sample Date: 6-2-11 **Completed By:** ETW
Signature:

Circle or Highlight Yes / No (below)

Analytical Lab Used and Report # (if any): Pace #: 257959

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:

9. Matrix Spike recovery (M1 Qualifier) exceeded QC limits Manganese, dissolved mercury, chloride, sulfate, Nitrogen, NO_2 & NO_3.
Other Qualifiers Noted: 1a (DRO not match), 2a (TPH$_g$ not match), B1 (1.0 mg/L DO remained), D3 (sample diluted), E (analyte concentration exceeded calibration range)

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

June 17, 2011

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

RE: Project: 2705191
Pace Project No.: 257959

Dear Dennis Dettloff:
Enclosed are the analytical results for sample(s) received by the laboratory on June 03, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC 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 Ste. Marie

Regina SteMarie

regina.stemarie@pacelabs.com
Project Manager

Enclosures

cc: Tara Bosch, Antea USA
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Pace Analytical Services, Inc.
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CERTIFICATIONS

Project: 2705191
Pace Project No.: 257959

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

Washington Certification IDs
940 South Harney Street, Seattle, WA 98108
Alaska CS Certification #: UST-025
Alaska Drinking Water VOC Certification #: WA01230
Alaska Drinking Water Micro Certification #: WA01230
California Certification #: 01153CA
Florida/NELAP Certification #: E87617
Oregon Certification #: WA200007
Washington Certification #: C1229

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SAMPLE ANALYTE COUNT

Project: 2705191
Pace Project No.: 257959

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
257959001	MW-10_20110630	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
257959002	MW-11_20110630	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
257959003	MW-12_20110630	RSK 175	CJR	1	PASI-M
		EPA 8015B	AY1	3	PASI-S
		EPA 6010	BGA	1	PASI-S
		EPA 6010	BGA	15	PASI-S
		EPA 7470	BGA	1	PASI-S
		EPA 5030B/8260	LPM	12	PASI-S
		CA LUFT	LPM	2	PASI-S
		SM 3500-Fe B#4	CMS	1	PASI-S
		SM 3500-Fe B#4	CMS	1	PASI-S
		SM 5210B	CMS	1	PASI-S
		EPA 300.0	CMS	2	PASI-S
		EPA 353.2	CMS	2	PASI-S
		EPA 410.4	KMT	1	PASI-S
		SM 4500-NO2 B	KMT	1	PASI-S
257959004	MW-12A_20110630	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
257959005	MW-13_20110630	EPA 8015B	AY1	3	PASI-S
		EPA 6010	BGA	1	PASI-S

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Project: 2705191
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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
257959006	MW-3_20110630	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
257959007	MW-6_20110630	RSK 175	CJR	1	PASI-M
		EPA 8015B	ERB	3	PASI-S
		EPA 6010	BGA	1	PASI-S
		EPA 6010	BGA	15	PASI-S
		EPA 7470	BGA	1	PASI-S
		EPA 5030B/8260	LPM	12	PASI-S
		CA LUFT	LPM	2	PASI-S
		SM 3500-Fe B#4	CMS	1	PASI-S
		SM 3500-Fe B#4	CMS	1	PASI-S
		SM 5210B	CMS	1	PASI-S
		EPA 300.0	CMS	2	PASI-S
		EPA 353.2	CMS	2	PASI-S
		EPA 410.4	KMT	1	PASI-S
		SM 4500-NO2 B	KMT	1	PASI-S
257959008	MW-7_20110630	EPA 8015B	ERB	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
257959009	MW-8_20110630	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

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SAMPLE ANALYTE COUNT

Project: 2705191
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Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 300.0	CMS	1	PASI-S
		EPA 353.2	CMS	2	PASI-S
		SM 4500-NO2 B	KMT	1	PASI-S
257959010	MW-9_20110630	RSK 175	CJR	1	PASI-M
		EPA 8015B	AY1	3	PASI-S
		EPA 6010	BGA	1	PASI-S
		EPA 6010	BGA	15	PASI-S
		EPA 7470	BGA	1	PASI-S
		EPA 5030B/8260	LPM	12	PASI-S
		CA LUFT	LPM	2	PASI-S
		SM 3500-Fe B#4	CMS	1	PASI-S
		SM 3500-Fe B#4	CMS	1	PASI-S
		SM 5210B	CMS	1	PASI-S
		EPA 300.0	CMS	2	PASI-S
		EPA 353.2	CMS	2	PASI-S
		EPA 410.4	KMT	1	PASI-S
		SM 4500-NO2 B	KMT	1	PASI-S
257959011	MW-14_20110630	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
257959012	MW-15_20110630	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
257959013	MW-16_20110630	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

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SAMPLE ANALYTE COUNT

Project: 2705191
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Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 4500-NO2 B	KMT	1	PASI-S
257959014	MW-17_20110630	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

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Project: 2705191
Pace Project No.: 257959

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
257959001	**MW-10_20110630**					
EPA 6010	Iron	9870	ug/L	100	06/13/11 09:13	
EPA 5030B/8260	Benzene	4.8	ug/L	0.50	06/08/11 12:39	
EPA 5030B/8260	Ethylbenzene	0.96	ug/L	0.50	06/08/11 12:39	
EPA 5030B/8260	Toluene	4.2	ug/L	0.50	06/08/11 12:39	
EPA 5030B/8260	Xylene (Total)	5.1	ug/L	1.5	06/08/11 12:39	
CA LUFT	TPH-Gasoline (C05-C12)	58.7	ug/L	50.0	06/08/11 12:39	
EPA 300.0	Sulfate	71700	ug/L	5000	06/16/11 18:54	
EPA 353.2	Nitrogen, Nitrate	1290	ug/L	50.0	06/07/11 15:08	
EPA 353.2	Nitrogen, NO2 plus NO3	1340	ug/L	50.0	06/07/11 15:08	
SM 4500-NO2 B	Nitrite as N	49.3	ug/L	10.0	06/03/11 15:03	
257959002	**MW-11_20110630**					
EPA 8015B	TPH-DRO (C10-C24) SG	69.0	ug/L	50.0	06/08/11 23:36	1n
EPA 6010	Iron	1040	ug/L	100	06/13/11 09:22	
EPA 5030B/8260	tert-Butyl Alcohol	7.1	ug/L	5.0	06/08/11 17:52	
EPA 5030B/8260	Methyl-tert-butyl ether	24.9	ug/L	0.50	06/08/11 17:52	
EPA 5030B/8260	Toluene	0.61	ug/L	0.50	06/08/11 17:52	
EPA 300.0	Sulfate	62900	ug/L	5000	06/16/11 19:52	
EPA 353.2	Nitrogen, Nitrate	110	ug/L	50.0	06/07/11 15:10	
EPA 353.2	Nitrogen, NO2 plus NO3	115	ug/L	50.0	06/07/11 15:10	
257959003	**MW-12_20110630**					
RSK 175	Methane	287	ug/L	10.0	06/06/11 15:26	
EPA 8015B	TPH-DRO (C10-C24) SG	1330	ug/L	50.0	06/08/11 23:52	1n
EPA 6010	Iron	9340	ug/L	100	06/13/11 09:25	
EPA 6010	Manganese, Dissolved	12800	ug/L	15.0	06/10/11 10:59	
EPA 6010	Nickel, Dissolved	119	ug/L	40.0	06/10/11 10:59	
EPA 5030B/8260	Benzene	688	ug/L	25.0	06/08/11 21:06	
EPA 5030B/8260	tert-Butyl Alcohol	110	ug/L	5.0	06/09/11 23:51	
EPA 5030B/8260	Ethylbenzene	225	ug/L	0.50	06/09/11 23:51	
EPA 5030B/8260	Methyl-tert-butyl ether	824	ug/L	25.0	06/08/11 21:06	
EPA 5030B/8260	Toluene	70.5	ug/L	0.50	06/09/11 23:51	
EPA 5030B/8260	Xylene (Total)	619	ug/L	75.0	06/08/11 21:06	
CA LUFT	TPH-Gasoline (C05-C12)	12200	ug/L	2500	06/08/11 21:06	
SM 3500-Fe B#4	Iron, Ferric	8740	ug/L	100	06/17/11 11:45	
SM 3500-Fe B#4	Iron, Ferrous	600	ug/L	100	06/02/11 15:15	
SM 5210B	BOD, 5 day	7240	ug/L	2000	06/08/11 15:40	
EPA 300.0	Chloride	7260000	ug/L	1000000	06/16/11 20:11	
EPA 300.0	Sulfate	2330000	ug/L	200000	06/16/11 20:31	
EPA 353.2	Nitrogen, NO2 plus NO3	58.0	ug/L	50.0	06/07/11 15:11	
EPA 410.4	Chemical Oxygen Demand	191000	ug/L	100000	06/15/11 13:00	
257959004	**MW-12A_20110630**					
EPA 6010	Iron	754	ug/L	100	06/13/11 09:28	
EPA 300.0	Sulfate	101000	ug/L	10000	06/16/11 20:50	
EPA 353.2	Nitrogen, Nitrate	4710	ug/L	100	06/07/11 15:44	
EPA 353.2	Nitrogen, NO2 plus NO3	4720	ug/L	100	06/07/11 15:44	

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Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
257959005	**MW-13_20110630**					
EPA 8015B	TPH-DRO (C10-C24) SG	89.9	ug/L	50.0	06/09/11 00:23	1n
EPA 6010	Iron	36700	ug/L	100	06/13/11 09:32	
EPA 5030B/8260	tert-Butyl Alcohol	44.7	ug/L	5.0	06/09/11 22:43	
EPA 5030B/8260	Methyl-tert-butyl ether	228	ug/L	0.50	06/09/11 22:43	
CA LUFT	TPH-Gasoline (C05-C12)	260	ug/L	50.0	06/08/11 20:11	2n
EPA 300.0	Sulfate	188000	ug/L	20000	06/16/11 21:48	
EPA 353.2	Nitrogen, Nitrate	71.5	ug/L	50.0	06/07/11 15:14	
EPA 353.2	Nitrogen, NO2 plus NO3	86.0	ug/L	50.0	06/07/11 15:14	
SM 4500-NO2 B	Nitrite as N	14.5	ug/L	10.0	06/03/11 15:03	
257959006	**MW-3_20110630**					
EPA 8015B	TPH-DRO (C10-C24) SG	155	ug/L	50.0	06/09/11 00:39	1n
EPA 6010	Iron	13600	ug/L	100	06/13/11 11:02	
EPA 5030B/8260	Benzene	0.58	ug/L	0.50	06/08/11 18:09	
EPA 5030B/8260	tert-Butyl Alcohol	55.7	ug/L	5.0	06/08/11 18:09	
EPA 5030B/8260	Methyl-tert-butyl ether	42.1	ug/L	0.50	06/08/11 18:09	
EPA 5030B/8260	Toluene	1.3	ug/L	0.50	06/08/11 18:09	
EPA 5030B/8260	Xylene (Total)	2.2	ug/L	1.5	06/08/11 18:09	
CA LUFT	TPH-Gasoline (C05-C12)	283	ug/L	50.0	06/08/11 18:09	
EPA 353.2	Nitrogen, NO2 plus NO3	52.5	ug/L	50.0	06/07/11 15:16	
257959007	**MW-6_20110630**					
RSK 175	Methane	445	ug/L	10.0	06/07/11 14:23	
EPA 8015B	TPH-DRO (C10-C24) SG	33700	ug/L	250	06/09/11 22:40	1n
EPA 6010	Iron	4320	ug/L	100	06/13/11 11:05	
EPA 6010	Arsenic, Dissolved	22.0	ug/L	20.0	06/10/11 11:09	
EPA 6010	Barium, Dissolved	191	ug/L	100	06/10/11 11:09	
EPA 6010	Lead, Dissolved	22.6	ug/L	10.0	06/10/11 11:09	
EPA 6010	Manganese, Dissolved	1510	ug/L	15.0	06/10/11 11:09	
EPA 5030B/8260	Benzene	780	ug/L	25.0	06/08/11 20:47	
EPA 5030B/8260	tert-Butyl Alcohol	81.0	ug/L	5.0	06/09/11 23:34	
EPA 5030B/8260	Ethylbenzene	651	ug/L	25.0	06/08/11 20:47	
EPA 5030B/8260	Methyl-tert-butyl ether	6.7	ug/L	0.50	06/09/11 23:34	
EPA 5030B/8260	Toluene	262	ug/L	0.50	06/09/11 23:34	
EPA 5030B/8260	Xylene (Total)	3890	ug/L	75.0	06/08/11 20:47	
CA LUFT	TPH-Gasoline (C05-C12)	56200	ug/L	2500	06/08/11 20:47	
SM 3500-Fe B#4	Iron, Ferric	2520	ug/L	100	06/17/11 11:45	
SM 3500-Fe B#4	Iron, Ferrous	1800	ug/L	100	06/02/11 13:15	
SM 5210B	BOD, 5 day	45100	ug/L	2000	06/08/11 15:40	B1
EPA 300.0	Chloride	149000	ug/L	20000	06/16/11 22:26	
EPA 300.0	Sulfate	38900	ug/L	20000	06/16/11 22:26	
EPA 353.2	Nitrogen, NO2 plus NO3	50.5	ug/L	50.0	06/07/11 15:17	
EPA 410.4	Chemical Oxygen Demand	121000	ug/L	5000	06/15/11 13:00	
257959008	**MW-7_20110630**					
EPA 8015B	TPH-DRO (C10-C24) SG	63.0	ug/L	50.0	06/09/11 22:24	1n
EPA 6010	Iron	7800	ug/L	100	06/13/11 11:08	
EPA 300.0	Sulfate	48900	ug/L	5000	06/16/11 23:05	
EPA 353.2	Nitrogen, Nitrate	233	ug/L	50.0	06/07/11 15:19	

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Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
257959008	**MW-7_20110630**					
EPA 353.2	Nitrogen, NO2 plus NO3	239	ug/L	50.0	06/07/11 15:19	
257959009	**MW-8_20110630**					
EPA 8015B	TPH-DRO (C10-C24) SG	168	ug/L	50.0	06/09/11 02:30	1n
EPA 6010	Iron	24900	ug/L	100	06/13/11 11:12	
EPA 300.0	Sulfate	2830000	ug/L	500000	06/16/11 23:24	
EPA 353.2	Nitrogen, Nitrate	60.9	ug/L	50.0	06/07/11 15:25	
EPA 353.2	Nitrogen, NO2 plus NO3	60.9	ug/L	50.0	06/07/11 15:25	
257959010	**MW-9_20110630**					
RSK 175	Methane	673	ug/L	10.0	06/06/11 15:47	
EPA 6010	Iron	1260	ug/L	100	06/13/11 11:15	
EPA 6010	Manganese, Dissolved	91.5	ug/L	15.0	06/10/11 11:12	
SM 3500-Fe B#4	Iron, Ferric	1060	ug/L	100	06/17/11 11:45	
SM 3500-Fe B#4	Iron, Ferrous	200	ug/L	100	06/02/11 14:15	
SM 5210B	BOD, 5 day	4170	ug/L	2000	06/08/11 15:40	
EPA 300.0	Chloride	32400	ug/L	5000	06/16/11 23:43	
EPA 300.0	Sulfate	18600	ug/L	5000	06/16/11 23:43	
EPA 410.4	Chemical Oxygen Demand	15100	ug/L	5000	06/15/11 13:00	
257959011	**MW-14_20110630**					
EPA 8015B	TPH-DRO (C10-C24) SG	4180	ug/L	50.0	06/09/11 03:02	1n
EPA 6010	Iron	47500	ug/L	100	06/13/11 11:18	
EPA 5030B/8260	Benzene	2750	ug/L	25.0	06/09/11 16:45	
EPA 5030B/8260	tert-Butyl Alcohol	27.2	ug/L	5.0	06/09/11 17:55	
EPA 5030B/8260	Ethylbenzene	1790	ug/L	25.0	06/09/11 16:45	
EPA 5030B/8260	Methyl-tert-butyl ether	1.9	ug/L	0.50	06/09/11 17:55	
EPA 5030B/8260	Toluene	67.9	ug/L	0.50	06/09/11 17:55	
EPA 5030B/8260	Xylene (Total)	13400	ug/L	75.0	06/09/11 16:45	
CA LUFT	TPH-Gasoline (C05-C12)	51600	ug/L	2500	06/09/11 16:45	
EPA 300.0	Sulfate	56300	ug/L	20000	06/17/11 00:22	
EPA 353.2	Nitrogen, NO2 plus NO3	50.1	ug/L	50.0	06/07/11 15:28	
SM 4500-NO2 B	Nitrite as N	10.4	ug/L	10.0	06/03/11 15:03	
257959012	**MW-15_20110630**					
EPA 8015B	TPH-DRO (C10-C24) SG	124	ug/L	50.0	06/09/11 03:18	1n
EPA 6010	Iron	11700	ug/L	100	06/13/11 11:21	
EPA 5030B/8260	tert-Butyl Alcohol	6.4	ug/L	5.0	06/08/11 18:26	
EPA 5030B/8260	Methyl-tert-butyl ether	15.2	ug/L	0.50	06/08/11 18:26	
CA LUFT	TPH-Gasoline (C05-C12)	357	ug/L	50.0	06/08/11 18:26	
EPA 300.0	Sulfate	62700	ug/L	5000	06/17/11 00:41	
EPA 353.2	Nitrogen, Nitrate	890	ug/L	50.0	06/07/11 15:31	
EPA 353.2	Nitrogen, NO2 plus NO3	928	ug/L	50.0	06/07/11 15:31	
SM 4500-NO2 B	Nitrite as N	38.0	ug/L	10.0	06/03/11 15:03	
257959013	**MW-16_20110630**					
EPA 8015B	TPH-DRO (C10-C24) SG	509	ug/L	50.0	06/09/11 03:34	1n
EPA 6010	Iron	34200	ug/L	100	06/13/11 11:25	
EPA 5030B/8260	Benzene	79.4	ug/L	0.50	06/08/11 18:42	

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HITS ONLY

Project: 2705191
Pace Project No.: 257959

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
257959013	**MW-16_20110630**					
EPA 5030B/8260	tert-Butyl Alcohol	257	ug/L	5.0	06/08/11 18:42	
EPA 5030B/8260	Ethylbenzene	4.2	ug/L	0.50	06/08/11 18:42	
EPA 5030B/8260	Methyl-tert-butyl ether	1200	ug/L	5.0	06/10/11 09:14	
CA LUFT	TPH-Gasoline (C05-C12)	1420	ug/L	50.0	06/08/11 18:42	2n
EPA 300.0	Sulfate	8740	ug/L	2000	06/17/11 01:39	
257959014	**MW-17_20110630**					
EPA 8015B	TPH-DRO (C10-C24) SG	687	ug/L	50.0	06/09/11 03:50	1n
EPA 6010	Iron	109000	ug/L	100	06/13/11 11:41	
EPA 5030B/8260	Benzene	2530	ug/L	25.0	06/09/11 16:26	
EPA 5030B/8260	tert-Butyl Alcohol	366	ug/L	5.0	06/09/11 17:38	
EPA 5030B/8260	Ethylbenzene	35.1	ug/L	0.50	06/09/11 17:38	
EPA 5030B/8260	Methyl-tert-butyl ether	0.74	ug/L	0.50	06/09/11 17:38	
EPA 5030B/8260	Toluene	960	ug/L	25.0	06/09/11 16:26	
EPA 5030B/8260	Xylene (Total)	907	ug/L	1.5	06/09/11 17:38	
CA LUFT	TPH-Gasoline (C05-C12)	9130	ug/L	50.0	06/08/11 18:59	
EPA 300.0	Sulfate	3920000	ug/L	200000	06/17/11 01:58	
SM 4500-NO2 B	Nitrite as N	29.7	ug/L	10.0	06/03/11 15:03	

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ANALYTICAL RESULTS

Project: 2705191
Pace Project No.: 257959

Sample: MW-10_20110630 **Lab ID: 257959001** Collected: 06/02/11 10:50 Received: 06/03/11 09:00 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	50.0	1	06/08/11 10:35	06/08/11 23:20		
o-Terphenyl (S) SG	80	%	51-147	1	06/08/11 10:35	06/08/11 23:20	84-15-1	
n-Octacosane (S) SG	87	%	50-150	1	06/08/11 10:35	06/08/11 23:20	630-02-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron	**9870**	ug/L	100	1	06/09/11 09:37	06/13/11 09:13	7439-89-6	
8260 MSV	Analytical Method: EPA 5030B/8260							
Benzene	**4.8**	ug/L	0.50	1		06/08/11 12:39	71-43-2	
tert-Butyl Alcohol	ND	ug/L	5.0	1		06/08/11 12:39	75-65-0	
Ethanol	ND	ug/L	250	1		06/08/11 12:39	64-17-5	
Ethylbenzene	**0.96**	ug/L	0.50	1		06/08/11 12:39	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		06/08/11 12:39	1634-04-4	
Toluene	**4.2**	ug/L	0.50	1		06/08/11 12:39	108-88-3	
Xylene (Total)	**5.1**	ug/L	1.5	1		06/08/11 12:39	1330-20-7	
4-Bromofluorobenzene (S)	100	%	80-120	1		06/08/11 12:39	460-00-4	
Dibromofluoromethane (S)	97	%	80-122	1		06/08/11 12:39	1868-53-7	
1,2-Dichloroethane-d4 (S)	92	%	80-124	1		06/08/11 12:39	17060-07-0	
Toluene-d8 (S)	98	%	80-123	1		06/08/11 12:39	2037-26-5	
CA LUFT MSV GRO	Analytical Method: CA LUFT							
TPH-Gasoline (C05-C12)	**58.7**	ug/L	50.0	1		06/08/11 12:39		
4-Bromofluorobenzene (S)	100	%	82-116	1		06/08/11 12:39	460-00-4	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	**71700**	ug/L	5000	5		06/16/11 18:54	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	**1290**	ug/L	50.0	1		06/07/11 15:08		
Nitrogen, NO2 plus NO3	**1340**	ug/L	50.0	1		06/07/11 15:08		
SM4500NO2-B, Nitrite, unpres	Analytical Method: SM 4500-NO2 B							
Nitrite as N	**49.3**	ug/L	10.0	1		06/03/11 15:03	14797-65-0	

Sample: MW-11_20110630 **Lab ID: 257959002** Collected: 06/02/11 11:25 Received: 06/03/11 09:00 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	**69.0**	ug/L	50.0	1	06/08/11 10:35	06/08/11 23:36		1n
o-Terphenyl (S) SG	77	%	51-147	1	06/08/11 10:35	06/08/11 23:36	84-15-1	
n-Octacosane (S) SG	85	%	50-150	1	06/08/11 10:35	06/08/11 23:36	630-02-4	

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ANALYTICAL RESULTS

Project: 2705191
Pace Project No.: 257959

Sample: MW-11_20110630 **Lab ID: 257959002** Collected: 06/02/11 11:25 Received: 06/03/11 09:00 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	**1040**	ug/L	100	1	06/09/11 09:37	06/13/11 09:22	7439-89-6	
8260 MSV	Analytical Method: EPA 5030B/8260							
Benzene	ND	ug/L	0.50	1		06/08/11 17:52	71-43-2	
tert-Butyl Alcohol	**7.1**	ug/L	5.0	1		06/08/11 17:52	75-65-0	
Ethanol	ND	ug/L	250	1		06/08/11 17:52	64-17-5	
Ethylbenzene	ND	ug/L	0.50	1		06/08/11 17:52	100-41-4	
Methyl-tert-butyl ether	**24.9**	ug/L	0.50	1		06/08/11 17:52	1634-04-4	
Toluene	**0.61**	ug/L	0.50	1		06/08/11 17:52	108-88-3	
Xylene (Total)	ND	ug/L	1.5	1		06/08/11 17:52	1330-20-7	
4-Bromofluorobenzene (S)	99	%	80-120	1		06/08/11 17:52	460-00-4	
Dibromofluoromethane (S)	97	%	80-122	1		06/08/11 17:52	1868-53-7	
1,2-Dichloroethane-d4 (S)	89	%	80-124	1		06/08/11 17:52	17060-07-0	
Toluene-d8 (S)	98	%	80-123	1		06/08/11 17:52	2037-26-5	
CA LUFT MSV GRO	Analytical Method: CA LUFT							
TPH-Gasoline (C05-C12)	ND	ug/L	50.0	1		06/08/11 17:52		
4-Bromofluorobenzene (S)	99	%	82-116	1		06/08/11 17:52	460-00-4	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	**62900**	ug/L	5000	5		06/16/11 19:52	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	**110**	ug/L	50.0	1		06/07/11 15:10		
Nitrogen, NO2 plus NO3	**115**	ug/L	50.0	1		06/07/11 15:10		
SM4500NO2-B, Nitrite, unpres	Analytical Method: SM 4500-NO2 B							
Nitrite as N	ND	ug/L	10.0	1		06/03/11 15:03	14797-65-0	

Sample: MW-12_20110630 **Lab ID: 257959003** Collected: 06/02/11 15:15 Received: 06/03/11 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175							
Methane	**287**	ug/L	10.0	1		06/06/11 15:26	74-82-8	
8015B CA TPH DRO SG	Analytical Method: EPA 8015B Preparation Method: EPA 3510 Modified							
TPH-DRO (C10-C24) SG	**1330**	ug/L	50.0	1	06/08/11 10:35	06/08/11 23:52		1n
o-Terphenyl (S) SG	66	%	51-147	1	06/08/11 10:35	06/08/11 23:52	84-15-1	
n-Octacosane (S) SG	74	%	50-150	1	06/08/11 10:35	06/08/11 23:52	630-02-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron	**9340**	ug/L	100	1	06/09/11 09:37	06/13/11 09:25	7439-89-6	

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ANALYTICAL RESULTS

Project: 2705191
Pace Project No.: 257959

Sample: MW-12_20110630 **Lab ID: 257959003** Collected: 06/02/11 15:15 Received: 06/03/11 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Antimony, Dissolved	ND	ug/L	60.0	1	06/09/11 09:48	06/10/11 10:59	7440-36-0	
Arsenic, Dissolved	ND	ug/L	20.0	1	06/09/11 09:48	06/10/11 10:59	7440-38-2	
Barium, Dissolved	ND	ug/L	100	1	06/09/11 09:48	06/10/11 10:59	7440-39-3	
Beryllium, Dissolved	ND	ug/L	5.0	1	06/09/11 09:48	06/10/11 10:59	7440-41-7	
Cadmium, Dissolved	ND	ug/L	5.0	1	06/09/11 09:48	06/10/11 10:59	7440-43-9	
Cobalt, Dissolved	ND	ug/L	50.0	1	06/09/11 09:48	06/10/11 10:59	7440-48-4	
Lead, Dissolved	ND	ug/L	10.0	1	06/09/11 09:48	06/10/11 10:59	7439-92-1	
Manganese, Dissolved	**12800**	ug/L	15.0	1	06/09/11 09:48	06/10/11 10:59	7439-96-5	
Molybdenum, Dissolved	ND	ug/L	20.0	1	06/09/11 09:48	06/10/11 10:59	7439-98-7	
Nickel, Dissolved	**119**	ug/L	40.0	1	06/09/11 09:48	06/10/11 10:59	7440-02-0	
Selenium, Dissolved	ND	ug/L	10.0	1	06/09/11 09:48	06/10/11 10:59	7782-49-2	
Silver, Dissolved	ND	ug/L	10.0	1	06/09/11 09:48	06/10/11 10:59	7440-22-4	
Thallium, Dissolved	ND	ug/L	20.0	1	06/09/11 09:48	06/10/11 10:59	7440-28-0	
Vanadium, Dissolved	ND	ug/L	50.0	1	06/09/11 09:48	06/10/11 10:59	7440-62-2	
Zinc, Dissolved	ND	ug/L	40.0	1	06/09/11 09:48	06/10/11 10:59	7440-66-6	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury, Dissolved	ND	ug/L	0.20	1	06/07/11 10:41	06/08/11 10:23	7439-97-6	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	5.0	1		06/09/11 23:51	67-64-1	
Benzene	**688**	ug/L	25.0	50		06/08/11 21:06	71-43-2	
tert-Butyl Alcohol	**110**	ug/L	5.0	1		06/09/11 23:51	75-65-0	
Ethanol	ND	ug/L	250	1		06/09/11 23:51	64-17-5	
Ethylbenzene	**225**	ug/L	0.50	1		06/09/11 23:51	100-41-4	
Methyl-tert-butyl ether	**824**	ug/L	25.0	50		06/08/11 21:06	1634-04-4	
Toluene	**70.5**	ug/L	0.50	1		06/09/11 23:51	108-88-3	
Xylene (Total)	**619**	ug/L	75.0	50		06/08/11 21:06	1330-20-7	
4-Bromofluorobenzene (S)	96	%	80-120	1		06/09/11 23:51	460-00-4	
Dibromofluoromethane (S)	96	%	80-122	1		06/09/11 23:51	1868-53-7	
1,2-Dichloroethane-d4 (S)	93	%	80-124	1		06/09/11 23:51	17060-07-0	
Toluene-d8 (S)	97	%	80-123	1		06/09/11 23:51	2037-26-5	
CA LUFT MSV GRO	Analytical Method: CA LUFT							
TPH-Gasoline (C05-C12)	**12200**	ug/L	2500	50		06/08/11 21:06		
4-Bromofluorobenzene (S)	100	%	82-116	50		06/08/11 21:06	460-00-4	
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4							
Iron, Ferric	**8740**	ug/L	100	1		06/17/11 11:45	7439-89-6	
Iron, Ferrous	Analytical Method: SM 3500-Fe B#4							
Iron, Ferrous	**600**	ug/L	100	1		06/02/11 15:15		
5210B BOD, 5 day	Analytical Method: SM 5210B Preparation Method: SM 5210B							
BOD, 5 day	**7240**	ug/L	2000	1	06/03/11 10:45	06/08/11 15:40		

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ANALYTICAL RESULTS

Project: 2705191
Pace Project No.: 257959

Sample: MW-12_20110630 **Lab ID: 257959003** Collected: 06/02/11 15:15 Received: 06/03/11 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**7260000**	ug/L	1000000	1000		06/16/11 20:11	16887-00-6	
Sulfate	**2330000**	ug/L	200000	200		06/16/11 20:31	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	ug/L	50.0	1		06/07/11 15:11		
Nitrogen, NO2 plus NO3	**58.0**	ug/L	50.0	1		06/07/11 15:11		
410.4 COD	Analytical Method: EPA 410.4							
Chemical Oxygen Demand	**191000**	ug/L	100000	20		06/15/11 13:00		
SM4500NO2-B, Nitrite, unpres	Analytical Method: SM 4500-NO2 B							
Nitrite as N	ND	ug/L	10.0	1		06/03/11 15:03	14797-65-0	

Sample: MW-12A_20110630 **Lab ID: 257959004** Collected: 06/02/11 09:20 Received: 06/03/11 09:00 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	50.0	1	06/08/11 10:35	06/09/11 00:08		
o-Terphenyl (S) SG	64	%	51-147	1	06/08/11 10:35	06/09/11 00:08	84-15-1	
n-Octacosane (S) SG	75	%	50-150	1	06/08/11 10:35	06/09/11 00:08	630-02-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron	**754**	ug/L	100	1	06/09/11 09:37	06/13/11 09:28	7439-89-6	
8260 MSV	Analytical Method: EPA 5030B/8260							
Benzene	ND	ug/L	0.50	1		06/08/11 12:56	71-43-2	
tert-Butyl Alcohol	ND	ug/L	5.0	1		06/08/11 12:56	75-65-0	
Ethanol	ND	ug/L	250	1		06/08/11 12:56	64-17-5	
Ethylbenzene	ND	ug/L	0.50	1		06/08/11 12:56	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		06/08/11 12:56	1634-04-4	
Toluene	ND	ug/L	0.50	1		06/08/11 12:56	108-88-3	
Xylene (Total)	ND	ug/L	1.5	1		06/08/11 12:56	1330-20-7	
4-Bromofluorobenzene (S)	101	%	80-120	1		06/08/11 12:56	460-00-4	
Dibromofluoromethane (S)	97	%	80-122	1		06/08/11 12:56	1868-53-7	
1,2-Dichloroethane-d4 (S)	90	%	80-124	1		06/08/11 12:56	17060-07-0	
Toluene-d8 (S)	98	%	80-123	1		06/08/11 12:56	2037-26-5	
CA LUFT MSV GRO	Analytical Method: CA LUFT							
TPH-Gasoline (C05-C12)	ND	ug/L	50.0	1		06/08/11 12:56		
4-Bromofluorobenzene (S)	101	%	82-116	1		06/08/11 12:56	460-00-4	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	**101000**	ug/L	10000	10		06/16/11 20:50	14808-79-8	

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ANALYTICAL RESULTS

Project: 2705191
Pace Project No.: 257959

Sample: MW-12A_20110630 **Lab ID: 257959004** Collected: 06/02/11 09:20 Received: 06/03/11 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	**4710**	ug/L	100	2		06/07/11 15:44		
Nitrogen, NO2 plus NO3	**4720**	ug/L	100	2		06/07/11 15:44		
SM4500NO2-B, Nitrite, unpres	Analytical Method: SM 4500-NO2 B							
Nitrite as N	ND	ug/L	10.0	1		06/03/11 15:03	14797-65-0	

Sample: MW-13_20110630 **Lab ID: 257959005** Collected: 06/02/11 11:55 Received: 06/03/11 09:00 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	**89.9**	ug/L	50.0	1	06/08/11 10:35	06/09/11 00:23		1n
o-Terphenyl (S) SG	69	%	51-147	1	06/08/11 10:35	06/09/11 00:23	84-15-1	
n-Octacosane (S) SG	78	%	50-150	1	06/08/11 10:35	06/09/11 00:23	630-02-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron	**36700**	ug/L	100	1	06/09/11 09:37	06/13/11 09:32	7439-89-6	
8260 MSV	Analytical Method: EPA 5030B/8260							
Benzene	ND	ug/L	0.50	1		06/09/11 22:43	71-43-2	
tert-Butyl Alcohol	**44.7**	ug/L	5.0	1		06/09/11 22:43	75-65-0	
Ethanol	ND	ug/L	250	1		06/09/11 22:43	64-17-5	
Ethylbenzene	ND	ug/L	0.50	1		06/09/11 22:43	100-41-4	
Methyl-tert-butyl ether	**228**	ug/L	0.50	1		06/09/11 22:43	1634-04-4	
Toluene	ND	ug/L	0.50	1		06/09/11 22:43	108-88-3	
Xylene (Total)	ND	ug/L	1.5	1		06/09/11 22:43	1330-20-7	
4-Bromofluorobenzene (S)	101	%	80-120	1		06/09/11 22:43	460-00-4	
Dibromofluoromethane (S)	97	%	80-122	1		06/09/11 22:43	1868-53-7	
1,2-Dichloroethane-d4 (S)	95	%	80-124	1		06/09/11 22:43	17060-07-0	
Toluene-d8 (S)	98	%	80-123	1		06/09/11 22:43	2037-26-5	
CA LUFT MSV GRO	Analytical Method: CA LUFT							
TPH-Gasoline (C05-C12)	**260**	ug/L	50.0	1		06/08/11 20:11		2n
4-Bromofluorobenzene (S)	99	%	82-116	1		06/08/11 20:11	460-00-4	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	**188000**	ug/L	20000	20		06/16/11 21:48	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	**71.5**	ug/L	50.0	1		06/07/11 15:14		
Nitrogen, NO2 plus NO3	**86.0**	ug/L	50.0	1		06/07/11 15:14		
SM4500NO2-B, Nitrite, unpres	Analytical Method: SM 4500-NO2 B							
Nitrite as N	**14.5**	ug/L	10.0	1		06/03/11 15:03	14797-65-0	

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ANALYTICAL RESULTS

Project: 2705191
Pace Project No.: 257959

Sample: MW-3_20110630 **Lab ID: 257959006** Collected: 06/02/11 13:30 Received: 06/03/11 09:00 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	**155**	ug/L	50.0	1	06/08/11 10:35	06/09/11 00:39		1n
o-Terphenyl (S) SG	74	%	51-147	1	06/08/11 10:35	06/09/11 00:39	84-15-1	
n-Octacosane (S) SG	81	%	50-150	1	06/08/11 10:35	06/09/11 00:39	630-02-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron	**13600**	ug/L	100	1	06/09/11 09:37	06/13/11 11:02	7439-89-6	
8260 MSV	Analytical Method: EPA 5030B/8260							
Benzene	**0.58**	ug/L	0.50	1		06/08/11 18:09	71-43-2	
tert-Butyl Alcohol	**55.7**	ug/L	5.0	1		06/08/11 18:09	75-65-0	
Ethanol	ND	ug/L	250	1		06/08/11 18:09	64-17-5	
Ethylbenzene	ND	ug/L	0.50	1		06/08/11 18:09	100-41-4	
Methyl-tert-butyl ether	**42.1**	ug/L	0.50	1		06/08/11 18:09	1634-04-4	
Toluene	**1.3**	ug/L	0.50	1		06/08/11 18:09	108-88-3	
Xylene (Total)	**2.2**	ug/L	1.5	1		06/08/11 18:09	1330-20-7	
4-Bromofluorobenzene (S)	100	%	80-120	1		06/08/11 18:09	460-00-4	
Dibromofluoromethane (S)	96	%	80-122	1		06/08/11 18:09	1868-53-7	
1,2-Dichloroethane-d4 (S)	89	%	80-124	1		06/08/11 18:09	17060-07-0	
Toluene-d8 (S)	97	%	80-123	1		06/08/11 18:09	2037-26-5	
CA LUFT MSV GRO	Analytical Method: CA LUFT							
TPH-Gasoline (C05-C12)	**283**	ug/L	50.0	1		06/08/11 18:09		
4-Bromofluorobenzene (S)	100	%	82-116	1		06/08/11 18:09	460-00-4	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	ND	ug/L	5000	5		06/16/11 22:07	14808-79-8	D3
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	ug/L	50.0	1		06/07/11 15:16		
Nitrogen, NO2 plus NO3	**52.5**	ug/L	50.0	1		06/07/11 15:16		
SM4500NO2-B, Nitrite, unpres	Analytical Method: SM 4500-NO2 B							
Nitrite as N	ND	ug/L	10.0	1		06/03/11 15:03	14797-65-0	

Sample: MW-6_20110630 **Lab ID: 257959007** Collected: 06/02/11 13:15 Received: 06/03/11 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175							
Methane	**445**	ug/L	10.0	1		06/07/11 14:23	74-82-8	
8015B CA TPH DRO SG	Analytical Method: EPA 8015B Preparation Method: EPA 3510 Modified							
TPH-DRO (C10-C24) SG	**33700**	ug/L	250	5	06/08/11 10:35	06/09/11 22:40		1n
o-Terphenyl (S) SG	82	%	51-147	5	06/08/11 10:35	06/09/11 22:40	84-15-1	

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ANALYTICAL RESULTS

Project: 2705191
Pace Project No.: 257959

Sample: MW-6_20110630 Lab ID: 257959007 Collected: 06/02/11 13:15 Received: 06/03/11 09:00 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							
n-Octacosane (S) SG	112	%	50-150	5	06/08/11 10:35	06/09/11 22:40	630-02-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron	**4320**	ug/L	100	1	06/09/11 09:37	06/13/11 11:05	7439-89-6	
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Antimony, Dissolved	ND	ug/L	60.0	1	06/09/11 09:48	06/10/11 11:09	7440-36-0	
Arsenic, Dissolved	**22.0**	ug/L	20.0	1	06/09/11 09:48	06/10/11 11:09	7440-38-2	
Barium, Dissolved	**191**	ug/L	100	1	06/09/11 09:48	06/10/11 11:09	7440-39-3	
Beryllium, Dissolved	ND	ug/L	5.0	1	06/09/11 09:48	06/10/11 11:09	7440-41-7	
Cadmium, Dissolved	ND	ug/L	5.0	1	06/09/11 09:48	06/10/11 11:09	7440-43-9	
Cobalt, Dissolved	ND	ug/L	50.0	1	06/09/11 09:48	06/10/11 11:09	7440-48-4	
Lead, Dissolved	**22.6**	ug/L	10.0	1	06/09/11 09:48	06/10/11 11:09	7439-92-1	
Manganese, Dissolved	**1510**	ug/L	15.0	1	06/09/11 09:48	06/10/11 11:09	7439-96-5	
Molybdenum, Dissolved	ND	ug/L	20.0	1	06/09/11 09:48	06/10/11 11:09	7439-98-7	
Nickel, Dissolved	ND	ug/L	40.0	1	06/09/11 09:48	06/10/11 11:09	7440-02-0	
Selenium, Dissolved	ND	ug/L	10.0	1	06/09/11 09:48	06/10/11 11:09	7782-49-2	
Silver, Dissolved	ND	ug/L	10.0	1	06/09/11 09:48	06/10/11 11:09	7440-22-4	
Thallium, Dissolved	ND	ug/L	20.0	1	06/09/11 09:48	06/10/11 11:09	7440-28-0	
Vanadium, Dissolved	ND	ug/L	50.0	1	06/09/11 09:48	06/10/11 11:09	7440-62-2	
Zinc, Dissolved	ND	ug/L	40.0	1	06/09/11 09:48	06/10/11 11:09	7440-66-6	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury, Dissolved	ND	ug/L	0.20	1	06/07/11 10:41	06/08/11 10:29	7439-97-6	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	5.0	1		06/09/11 23:34	67-64-1	
Benzene	**780**	ug/L	25.0	50		06/08/11 20:47	71-43-2	
tert-Butyl Alcohol	**81.0**	ug/L	5.0	1		06/09/11 23:34	75-65-0	
Ethanol	ND	ug/L	250	1		06/09/11 23:34	64-17-5	
Ethylbenzene	**651**	ug/L	25.0	50		06/08/11 20:47	100-41-4	
Methyl-tert-butyl ether	**6.7**	ug/L	0.50	1		06/09/11 23:34	1634-04-4	
Toluene	**262**	ug/L	0.50	1		06/09/11 23:34	108-88-3	
Xylene (Total)	**3890**	ug/L	75.0	50		06/08/11 20:47	1330-20-7	
4-Bromofluorobenzene (S)	94	%	80-120	1		06/09/11 23:34	460-00-4	
Dibromofluoromethane (S)	97	%	80-122	1		06/09/11 23:34	1868-53-7	
1,2-Dichloroethane-d4 (S)	91	%	80-124	1		06/09/11 23:34	17060-07-0	
Toluene-d8 (S)	96	%	80-123	1		06/09/11 23:34	2037-26-5	
CA LUFT MSV GRO	Analytical Method: CA LUFT							
TPH-Gasoline (C05-C12)	**56200**	ug/L	2500	50		06/08/11 20:47		
4-Bromofluorobenzene (S)	101	%	82-116	50		06/08/11 20:47	460-00-4	
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4							
Iron, Ferric	**2520**	ug/L	100	1		06/17/11 11:45	7439-89-6	

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ANALYTICAL RESULTS

Project: 2705191
Pace Project No.: 257959

Sample: MW-6_20110630 **Lab ID: 257959007** Collected: 06/02/11 13:15 Received: 06/03/11 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Iron, Ferrous	Analytical Method: SM 3500-Fe B#4							
Iron, Ferrous	**1800**	ug/L	100	1		06/02/11 13:15		
5210B BOD, 5 day	Analytical Method: SM 5210B Preparation Method: SM 5210B							
BOD, 5 day	**45100**	ug/L	2000	1	06/03/11 10:45	06/08/11 15:40		B1
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**149000**	ug/L	20000	20		06/16/11 22:26	16887-00-6	
Sulfate	**38900**	ug/L	20000	20		06/16/11 22:26	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	ug/L	50.0	1		06/07/11 15:17		
Nitrogen, NO2 plus NO3	**50.5**	ug/L	50.0	1		06/07/11 15:17		
410.4 COD	Analytical Method: EPA 410.4							
Chemical Oxygen Demand	**121000**	ug/L	5000	1		06/15/11 13:00		
SM4500NO2-B, Nitrite, unpres	Analytical Method: SM 4500-NO2 B							
Nitrite as N	ND	ug/L	10.0	1		06/03/11 15:03	14797-65-0	

Sample: MW-7_20110630 **Lab ID: 257959008** Collected: 06/02/11 09:00 Received: 06/03/11 09:00 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	**63.0**	ug/L	50.0	1	06/08/11 10:35	06/09/11 22:24		1n
o-Terphenyl (S) SG	76	%	51-147	1	06/08/11 10:35	06/09/11 22:24	84-15-1	
n-Octacosane (S) SG	83	%	50-150	1	06/08/11 10:35	06/09/11 22:24	630-02-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron	**7800**	ug/L	100	1	06/09/11 09:37	06/13/11 11:08	7439-89-6	
8260 MSV	Analytical Method: EPA 5030B/8260							
Benzene	ND	ug/L	0.50	1		06/08/11 13:13	71-43-2	
tert-Butyl Alcohol	ND	ug/L	5.0	1		06/08/11 13:13	75-65-0	
Ethanol	ND	ug/L	250	1		06/08/11 13:13	64-17-5	
Ethylbenzene	ND	ug/L	0.50	1		06/08/11 13:13	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		06/08/11 13:13	1634-04-4	
Toluene	ND	ug/L	0.50	1		06/08/11 13:13	108-88-3	
Xylene (Total)	ND	ug/L	1.5	1		06/08/11 13:13	1330-20-7	
4-Bromofluorobenzene (S)	100	%	80-120	1		06/08/11 13:13	460-00-4	
Dibromofluoromethane (S)	98	%	80-122	1		06/08/11 13:13	1868-53-7	
1,2-Dichloroethane-d4 (S)	92	%	80-124	1		06/08/11 13:13	17060-07-0	
Toluene-d8 (S)	98	%	80-123	1		06/08/11 13:13	2037-26-5	

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ANALYTICAL RESULTS

Project: 2705191
Pace Project No.: 257959

Sample: MW-7_20110630 **Lab ID: 257959008** Collected: 06/02/11 09:00 Received: 06/03/11 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
CA LUFT MSV GRO	Analytical Method: CA LUFT							
TPH-Gasoline (C05-C12)	ND	ug/L	50.0	1		06/08/11 13:13		
4-Bromofluorobenzene (S)	100	%	82-116	1		06/08/11 13:13	460-00-4	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	**48900**	ug/L	5000	5		06/16/11 23:05	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	**233**	ug/L	50.0	1		06/07/11 15:19		
Nitrogen, NO2 plus NO3	**239**	ug/L	50.0	1		06/07/11 15:19		
SM4500NO2-B, Nitrite, unpres	Analytical Method: SM 4500-NO2 B							
Nitrite as N	ND	ug/L	10.0	1		06/03/11 15:03	14797-65-0	

Sample: MW-8_20110630 **Lab ID: 257959009** Collected: 06/02/11 11:15 Received: 06/03/11 09:00 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	**168**	ug/L	50.0	1	06/08/11 10:35	06/09/11 02:30		1n
o-Terphenyl (S) SG	74	%	51-147	1	06/08/11 10:35	06/09/11 02:30	84-15-1	
n-Octacosane (S) SG	80	%	50-150	1	06/08/11 10:35	06/09/11 02:30	630-02-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron	**24900**	ug/L	100	1	06/09/11 09:37	06/13/11 11:12	7439-89-6	
8260 MSV	Analytical Method: EPA 5030B/8260							
Benzene	ND	ug/L	0.50	1		06/09/11 21:35	71-43-2	
tert-Butyl Alcohol	ND	ug/L	5.0	1		06/09/11 21:35	75-65-0	
Ethanol	ND	ug/L	250	1		06/09/11 21:35	64-17-5	
Ethylbenzene	ND	ug/L	0.50	1		06/09/11 21:35	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		06/09/11 21:35	1634-04-4	
Toluene	ND	ug/L	0.50	1		06/09/11 21:35	108-88-3	
Xylene (Total)	ND	ug/L	1.5	1		06/09/11 21:35	1330-20-7	
4-Bromofluorobenzene (S)	101	%	80-120	1		06/09/11 21:35	460-00-4	
Dibromofluoromethane (S)	96	%	80-122	1		06/09/11 21:35	1868-53-7	
1,2-Dichloroethane-d4 (S)	93	%	80-124	1		06/09/11 21:35	17060-07-0	
Toluene-d8 (S)	97	%	80-123	1		06/09/11 21:35	2037-26-5	
CA LUFT MSV GRO	Analytical Method: CA LUFT							
TPH-Gasoline (C05-C12)	ND	ug/L	50.0	1		06/08/11 15:52		
4-Bromofluorobenzene (S)	101	%	82-116	1		06/08/11 15:52	460-00-4	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	**2830000**	ug/L	500000	500		06/16/11 23:24	14808-79-8	

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ANALYTICAL RESULTS

Project: 2705191
Pace Project No.: 257959

Sample: MW-8_20110630 **Lab ID: 257959009** Collected: 06/02/11 11:15 Received: 06/03/11 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	**60.9**	ug/L	50.0	1		06/07/11 15:25		
Nitrogen, NO2 plus NO3	**60.9**	ug/L	50.0	1		06/07/11 15:25		
SM4500NO2-B, Nitrite, unpres	Analytical Method: SM 4500-NO2 B							
Nitrite as N	ND	ug/L	10.0	1		06/03/11 15:03	14797-65-0	

Sample: MW-9_20110630 **Lab ID: 257959010** Collected: 06/02/11 14:15 Received: 06/03/11 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175							
Methane	**673**	ug/L	10.0	1		06/06/11 15:47	74-82-8	
8015B CA TPH DRO SG	Analytical Method: EPA 8015B Preparation Method: EPA 3510 Modified							
TPH-DRO (C10-C24) SG	ND	ug/L	50.0	1	06/08/11 10:35	06/09/11 02:46		
o-Terphenyl (S) SG	72	%	51-147	1	06/08/11 10:35	06/09/11 02:46	84-15-1	
n-Octacosane (S) SG	85	%	50-150	1	06/08/11 10:35	06/09/11 02:46	630-02-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron	**1260**	ug/L	100	1	06/09/11 09:37	06/13/11 11:15	7439-89-6	
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Antimony, Dissolved	ND	ug/L	60.0	1	06/09/11 09:48	06/10/11 11:12	7440-36-0	
Arsenic, Dissolved	ND	ug/L	20.0	1	06/09/11 09:48	06/10/11 11:12	7440-38-2	
Barium, Dissolved	ND	ug/L	100	1	06/09/11 09:48	06/10/11 11:12	7440-39-3	
Beryllium, Dissolved	ND	ug/L	5.0	1	06/09/11 09:48	06/10/11 11:12	7440-41-7	
Cadmium, Dissolved	ND	ug/L	5.0	1	06/09/11 09:48	06/10/11 11:12	7440-43-9	
Cobalt, Dissolved	ND	ug/L	50.0	1	06/09/11 09:48	06/10/11 11:12	7440-48-4	
Lead, Dissolved	ND	ug/L	10.0	1	06/09/11 09:48	06/10/11 11:12	7439-92-1	
Manganese, Dissolved	**91.5**	ug/L	15.0	1	06/09/11 09:48	06/10/11 11:12	7439-96-5	
Molybdenum, Dissolved	ND	ug/L	20.0	1	06/09/11 09:48	06/10/11 11:12	7439-98-7	
Nickel, Dissolved	ND	ug/L	40.0	1	06/09/11 09:48	06/10/11 11:12	7440-02-0	
Selenium, Dissolved	ND	ug/L	10.0	1	06/09/11 09:48	06/10/11 11:12	7782-49-2	
Silver, Dissolved	ND	ug/L	10.0	1	06/09/11 09:48	06/10/11 11:12	7440-22-4	
Thallium, Dissolved	ND	ug/L	20.0	1	06/09/11 09:48	06/10/11 11:12	7440-28-0	
Vanadium, Dissolved	ND	ug/L	50.0	1	06/09/11 09:48	06/10/11 11:12	7440-62-2	
Zinc, Dissolved	ND	ug/L	40.0	1	06/09/11 09:48	06/10/11 11:12	7440-66-6	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury, Dissolved	ND	ug/L	0.20	1	06/07/11 10:41	06/08/11 10:31	7439-97-6	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	5.0	1		06/09/11 21:52	67-64-1	
Benzene	ND	ug/L	0.50	1		06/09/11 21:52	71-43-2	
tert-Butyl Alcohol	ND	ug/L	5.0	1		06/09/11 21:52	75-65-0	

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ANALYTICAL RESULTS

Project: 2705191
Pace Project No.: 257959

Sample: MW-9_20110630 **Lab ID: 257959010** Collected: 06/02/11 14:15 Received: 06/03/11 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Ethanol	ND	ug/L	250	1		06/09/11 21:52	64-17-5	
Ethylbenzene	ND	ug/L	0.50	1		06/09/11 21:52	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		06/09/11 21:52	1634-04-4	
Toluene	ND	ug/L	0.50	1		06/09/11 21:52	108-88-3	
Xylene (Total)	ND	ug/L	1.5	1		06/09/11 21:52	1330-20-7	
4-Bromofluorobenzene (S)	102	%	80-120	1		06/09/11 21:52	460-00-4	
Dibromofluoromethane (S)	96	%	80-122	1		06/09/11 21:52	1868-53-7	
1,2-Dichloroethane-d4 (S)	91	%	80-124	1		06/09/11 21:52	17060-07-0	
Toluene-d8 (S)	98	%	80-123	1		06/09/11 21:52	2037-26-5	
CA LUFT MSV GRO	Analytical Method: CA LUFT							
TPH-Gasoline (C05-C12)	ND	ug/L	50.0	1		06/08/11 16:09		
4-Bromofluorobenzene (S)	101	%	82-116	1		06/08/11 16:09	460-00-4	
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4							
Iron, Ferric	**1060**	ug/L	100	1		06/17/11 11:45	7439-89-6	
Iron, Ferrous	Analytical Method: SM 3500-Fe B#4							
Iron, Ferrous	**200**	ug/L	100	1		06/02/11 14:15		
5210B BOD, 5 day	Analytical Method: SM 5210B Preparation Method: SM 5210B							
BOD, 5 day	**4170**	ug/L	2000	1	06/03/11 10:45	06/08/11 15:40		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**32400**	ug/L	5000	5		06/16/11 23:43	16887-00-6	
Sulfate	**18600**	ug/L	5000	5		06/16/11 23:43	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	ug/L	50.0	1		06/07/11 15:26		
Nitrogen, NO2 plus NO3	ND	ug/L	50.0	1		06/07/11 15:26		
410.4 COD	Analytical Method: EPA 410.4							
Chemical Oxygen Demand	**15100**	ug/L	5000	1		06/15/11 13:00		
SM4500NO2-B, Nitrite, unpres	Analytical Method: SM 4500-NO2 B							
Nitrite as N	ND	ug/L	10.0	1		06/03/11 15:03	14797-65-0	

Sample: MW-14_20110630 **Lab ID: 257959011** Collected: 06/02/11 11:40 Received: 06/03/11 09:00 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	**4180**	ug/L	50.0	1	06/08/11 10:35	06/09/11 03:02		1n
o-Terphenyl (S) SG	81	%	51-147	1	06/08/11 10:35	06/09/11 03:02	84-15-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2705191
Pace Project No.: 257959

Sample: MW-14_20110630 **Lab ID: 257959011** Collected: 06/02/11 11:40 Received: 06/03/11 09:00 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							
n-Octacosane (S) SG	91	%	50-150	1	06/08/11 10:35	06/09/11 03:02	630-02-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron	**47500**	ug/L	100	1	06/09/11 09:37	06/13/11 11:18	7439-89-6	
8260 MSV	Analytical Method: EPA 5030B/8260							
Benzene	**2750**	ug/L	25.0	50		06/09/11 16:45	71-43-2	
tert-Butyl Alcohol	**27.2**	ug/L	5.0	1		06/09/11 17:55	75-65-0	
Ethanol	ND	ug/L	250	1		06/09/11 17:55	64-17-5	
Ethylbenzene	**1790**	ug/L	25.0	50		06/09/11 16:45	100-41-4	
Methyl-tert-butyl ether	**1.9**	ug/L	0.50	1		06/09/11 17:55	1634-04-4	
Toluene	**67.9**	ug/L	0.50	1		06/09/11 17:55	108-88-3	
Xylene (Total)	**13400**	ug/L	75.0	50		06/09/11 16:45	1330-20-7	
4-Bromofluorobenzene (S)	95	%	80-120	1		06/09/11 17:55	460-00-4	
Dibromofluoromethane (S)	96	%	80-122	1		06/09/11 17:55	1868-53-7	
1,2-Dichloroethane-d4 (S)	95	%	80-124	1		06/09/11 17:55	17060-07-0	
Toluene-d8 (S)	95	%	80-123	1		06/09/11 17:55	2037-26-5	
CA LUFT MSV GRO	Analytical Method: CA LUFT							
TPH-Gasoline (C05-C12)	**51600**	ug/L	2500	50		06/09/11 16:45		
4-Bromofluorobenzene (S)	98	%	82-116	50		06/09/11 16:45	460-00-4	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	**56300**	ug/L	20000	20		06/17/11 00:22	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	ug/L	50.0	1		06/07/11 15:28		
Nitrogen, NO2 plus NO3	**50.1**	ug/L	50.0	1		06/07/11 15:28		
SM4500NO2-B, Nitrite, unpres	Analytical Method: SM 4500-NO2 B							
Nitrite as N	**10.4**	ug/L	10.0	1		06/03/11 15:03	14797-65-0	

Sample: MW-15_20110630 **Lab ID: 257959012** Collected: 06/02/11 16:00 Received: 06/03/11 09:00 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	**124**	ug/L	50.0	1	06/08/11 10:35	06/09/11 03:18		1n
o-Terphenyl (S) SG	71	%	51-147	1	06/08/11 10:35	06/09/11 03:18	84-15-1	
n-Octacosane (S) SG	79	%	50-150	1	06/08/11 10:35	06/09/11 03:18	630-02-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron	**11700**	ug/L	100	1	06/09/11 09:37	06/13/11 11:21	7439-89-6	

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ANALYTICAL RESULTS

Project: 2705191
Pace Project No.: 257959

Sample: MW-15_20110630 **Lab ID: 257959012** Collected: 06/02/11 16:00 Received: 06/03/11 09:00 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		06/08/11 18:26	71-43-2	
tert-Butyl Alcohol	**6.4**	ug/L	5.0	1		06/08/11 18:26	75-65-0	
Ethanol	ND	ug/L	250	1		06/08/11 18:26	64-17-5	
Ethylbenzene	ND	ug/L	0.50	1		06/08/11 18:26	100-41-4	
Methyl-tert-butyl ether	**15.2**	ug/L	0.50	1		06/08/11 18:26	1634-04-4	
Toluene	ND	ug/L	0.50	1		06/08/11 18:26	108-88-3	
Xylene (Total)	ND	ug/L	1.5	1		06/08/11 18:26	1330-20-7	
4-Bromofluorobenzene (S)	100	%	80-120	1		06/08/11 18:26	460-00-4	
Dibromofluoromethane (S)	96	%	80-122	1		06/08/11 18:26	1868-53-7	
1,2-Dichloroethane-d4 (S)	88	%	80-124	1		06/08/11 18:26	17060-07-0	
Toluene-d8 (S)	98	%	80-123	1		06/08/11 18:26	2037-26-5	
CA LUFT MSV GRO	Analytical Method: CA LUFT							
TPH-Gasoline (C05-C12)	**357**	ug/L	50.0	1		06/08/11 18:26		
4-Bromofluorobenzene (S)	100	%	82-116	1		06/08/11 18:26	460-00-4	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	**62700**	ug/L	5000	5		06/17/11 00:41	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	**890**	ug/L	50.0	1		06/07/11 15:31		
Nitrogen, NO2 plus NO3	**928**	ug/L	50.0	1		06/07/11 15:31		
SM4500NO2-B, Nitrite, unpres	Analytical Method: SM 4500-NO2 B							
Nitrite as N	**38.0**	ug/L	10.0	1		06/03/11 15:03	14797-65-0	

Sample: MW-16_20110630 **Lab ID: 257959013** Collected: 06/02/11 15:45 Received: 06/03/11 09:00 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	**509**	ug/L	50.0	1	06/08/11 10:35	06/09/11 03:34		1n
o-Terphenyl (S) SG	65	%	51-147	1	06/08/11 10:35	06/09/11 03:34	84-15-1	
n-Octacosane (S) SG	69	%	50-150	1	06/08/11 10:35	06/09/11 03:34	630-02-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron	**34200**	ug/L	100	1	06/09/11 09:37	06/13/11 11:25	7439-89-6	
8260 MSV	Analytical Method: EPA 5030B/8260							
Benzene	**79.4**	ug/L	0.50	1		06/08/11 18:42	71-43-2	
tert-Butyl Alcohol	**257**	ug/L	5.0	1		06/08/11 18:42	75-65-0	
Ethanol	ND	ug/L	250	1		06/08/11 18:42	64-17-5	
Ethylbenzene	**4.2**	ug/L	0.50	1		06/08/11 18:42	100-41-4	
Methyl-tert-butyl ether	**1200**	ug/L	5.0	10		06/10/11 09:14	1634-04-4	
Toluene	ND	ug/L	0.50	1		06/08/11 18:42	108-88-3	

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ANALYTICAL RESULTS

Project: 2705191
Pace Project No.: 257959

Sample: MW-16_20110630 **Lab ID: 257959013** Collected: 06/02/11 15:45 Received: 06/03/11 09:00 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		06/08/11 18:42	1330-20-7	
4-Bromofluorobenzene (S)	100	%	80-120	1		06/08/11 18:42	460-00-4	
Dibromofluoromethane (S)	97	%	80-122	1		06/08/11 18:42	1868-53-7	
1,2-Dichloroethane-d4 (S)	88	%	80-124	1		06/08/11 18:42	17060-07-0	
Toluene-d8 (S)	98	%	80-123	1		06/08/11 18:42	2037-26-5	
CA LUFT MSV GRO	Analytical Method: CA LUFT							
TPH-Gasoline (C05-C12)	**1420**	ug/L	50.0	1		06/08/11 18:42		2n
4-Bromofluorobenzene (S)	100	%	82-116	1		06/08/11 18:42	460-00-4	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	**8740**	ug/L	2000	2		06/17/11 01:39	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	ug/L	50.0	1		06/07/11 15:32		
Nitrogen, NO2 plus NO3	ND	ug/L	50.0	1		06/07/11 15:32		
SM4500NO2-B, Nitrite, unpres	Analytical Method: SM 4500-NO2 B							
Nitrite as N	ND	ug/L	10.0	1		06/03/11 15:03	14797-65-0	

Sample: MW-17_20110630 **Lab ID: 257959014** Collected: 06/02/11 13:10 Received: 06/03/11 09:00 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	**687**	ug/L	50.0	1	06/08/11 10:35	06/09/11 03:50		1n
o-Terphenyl (S) SG	95	%	51-147	1	06/08/11 10:35	06/09/11 03:50	84-15-1	
n-Octacosane (S) SG	99	%	50-150	1	06/08/11 10:35	06/09/11 03:50	630-02-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron	**109000**	ug/L	100	1	06/09/11 09:37	06/13/11 11:41	7439-89-6	
8260 MSV	Analytical Method: EPA 5030B/8260							
Benzene	**2530**	ug/L	25.0	50		06/09/11 16:26	71-43-2	
tert-Butyl Alcohol	**366**	ug/L	5.0	1		06/09/11 17:38	75-65-0	
Ethanol	ND	ug/L	250	1		06/09/11 17:38	64-17-5	
Ethylbenzene	**35.1**	ug/L	0.50	1		06/09/11 17:38	100-41-4	
Methyl-tert-butyl ether	**0.74**	ug/L	0.50	1		06/09/11 17:38	1634-04-4	
Toluene	**960**	ug/L	25.0	50		06/09/11 16:26	108-88-3	
Xylene (Total)	**907**	ug/L	1.5	1		06/09/11 17:38	1330-20-7	
4-Bromofluorobenzene (S)	99	%	80-120	1		06/09/11 17:38	460-00-4	
Dibromofluoromethane (S)	99	%	80-122	1		06/09/11 17:38	1868-53-7	
1,2-Dichloroethane-d4 (S)	100	%	80-124	1		06/09/11 17:38	17060-07-0	
Toluene-d8 (S)	95	%	80-123	1		06/09/11 17:38	2037-26-5	

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ANALYTICAL RESULTS

Project: 2705191
Pace Project No.: 257959

Sample: MW-17_20110630 **Lab ID: 257959014** Collected: 06/02/11 13:10 Received: 06/03/11 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
CA LUFT MSV GRO	Analytical Method: CA LUFT							
TPH-Gasoline (C05-C12)	**9130**	ug/L	50.0	1		06/08/11 18:59		
4-Bromofluorobenzene (S)	99	%	82-116	1		06/08/11 18:59	460-00-4	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	**3920000**	ug/L	200000	200		06/17/11 01:58	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	ug/L	50.0	1		06/07/11 15:34		
Nitrogen, NO2 plus NO3	ND	ug/L	50.0	1		06/07/11 15:34		
SM4500NO2-B, Nitrite, unpres	Analytical Method: SM 4500-NO2 B							
Nitrite as N	**29.7**	ug/L	10.0	1		06/03/11 15:03	14797-65-0	

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QUALITY CONTROL DATA

Project: 2705191
Pace Project No.: 257959

QC Batch: AIR/12436
QC Batch Method: RSK 175
Analysis Method: RSK 175
Analysis Description: RSK 175 AIR HEADSPACE
Associated Lab Samples: 257959003, 257959010

METHOD BLANK: 988710
Matrix: Water
Associated Lab Samples: 257959003, 257959010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Methane	ug/L	ND	10.0	06/06/11 10:04	

LABORATORY CONTROL SAMPLE & LCSD: 988711 988712

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Methane	ug/L	60.7	52.4	66.9	86	110	70-130	24	30	

SAMPLE DUPLICATE: 988965

Parameter	Units	10159335001 Result	Dup Result	RPD	Qualifiers
Methane	ug/L	140	132	5	

SAMPLE DUPLICATE: 989229

Parameter	Units	10159335019 Result	Dup Result	RPD	Qualifiers
Methane	ug/L	24.2	31.5	26	

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QUALITY CONTROL DATA

Project: 2705191
Pace Project No.: 257959

QC Batch: AIR/12443
QC Batch Method: RSK 175
Analysis Method: RSK 175
Analysis Description: RSK 175 AIR HEADSPACE
Associated Lab Samples: 257959007

METHOD BLANK: 989256 Matrix: Water
Associated Lab Samples: 257959007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Methane	ug/L	ND	10.0	06/07/11 10:58	

LABORATORY CONTROL SAMPLE & LCSD: 989257 989258

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Methane	ug/L	60.7	62.1	60.6	102	100	70-130	2	30	

SAMPLE DUPLICATE: 989560

Parameter	Units	9295374010 Result	Dup Result	RPD	Qualifiers
Methane	ug/L	899	964	7	

SAMPLE DUPLICATE: 990020

Parameter	Units	10159335014 Result	Dup Result	RPD	Qualifiers
Methane	ug/L	229	243	6	

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QUALITY CONTROL DATA

Project: 2705191
Pace Project No.: 257959

QC Batch: OEXT/3826 Analysis Method: EPA 8015B
QC Batch Method: EPA 3510 Modified Analysis Description: 8015B CA DRO Silica Gel
Associated Lab Samples: 257959001, 257959002, 257959003, 257959004, 257959005, 257959006, 257959007, 257959008, 257959009, 257959010, 257959011, 257959012, 257959013, 257959014

METHOD BLANK: 73387 Matrix: Water
Associated Lab Samples: 257959001, 257959002, 257959003, 257959004, 257959005, 257959006, 257959007, 257959008, 257959009, 257959010, 257959011, 257959012, 257959013, 257959014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-DRO (C10-C24) SG	ug/L	ND	50.0	06/08/11 21:11	
n-Octacosane (S) SG	%	89	50-150	06/08/11 21:11	
o-Terphenyl (S) SG	%	69	51-147	06/08/11 21:11	

LABORATORY CONTROL SAMPLE: 73388

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-DRO (C10-C24) SG	ug/L	3120	1760	56	51-147	
n-Octacosane (S) SG	%			89	50-150	
o-Terphenyl (S) SG	%			82	51-147	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 73389 73390

Parameter	Units	257959008 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	63.0	3120	3120	1670	2100	51	65	51-147	23	
n-Octacosane (S) SG	%						73	96	50-150		
o-Terphenyl (S) SG	%						66	88	51-147		

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QUALITY CONTROL DATA

Project: 2705191
Pace Project No.: 257959

QC Batch: MPRP/2267 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 257959001, 257959002, 257959003, 257959004, 257959005, 257959006, 257959007, 257959008, 257959009, 257959010, 257959011, 257959012, 257959013, 257959014

METHOD BLANK: 73570 Matrix: Water
Associated Lab Samples: 257959001, 257959002, 257959003, 257959004, 257959005, 257959006, 257959007, 257959008, 257959009, 257959010, 257959011, 257959012, 257959013, 257959014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron	ug/L	ND	100	06/13/11 09:07	

LABORATORY CONTROL SAMPLE: 73571

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	10000	10300	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 73572 73573

Parameter	Units	257959001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Iron	ug/L	9870	10000	10000	20000	19700	102	98	75-125	2	

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QUALITY CONTROL DATA

Project: 2705191
Pace Project No.: 257959

QC Batch: MPRP/2268 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET Dissolved
Associated Lab Samples: 257959003, 257959007, 257959010

METHOD BLANK: 73574 Matrix: Water
Associated Lab Samples: 257959003, 257959007, 257959010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony, Dissolved	ug/L	ND	60.0	06/10/11 10:50	
Arsenic, Dissolved	ug/L	ND	20.0	06/10/11 10:50	
Barium, Dissolved	ug/L	ND	100	06/10/11 10:50	
Beryllium, Dissolved	ug/L	ND	5.0	06/10/11 10:50	
Cadmium, Dissolved	ug/L	ND	5.0	06/10/11 10:50	
Cobalt, Dissolved	ug/L	ND	50.0	06/10/11 10:50	
Lead, Dissolved	ug/L	ND	10.0	06/10/11 10:50	
Manganese, Dissolved	ug/L	ND	15.0	06/10/11 10:50	
Molybdenum, Dissolved	ug/L	ND	20.0	06/10/11 10:50	
Nickel, Dissolved	ug/L	ND	40.0	06/10/11 10:50	
Selenium, Dissolved	ug/L	ND	10.0	06/10/11 10:50	
Silver, Dissolved	ug/L	ND	10.0	06/10/11 10:50	
Thallium, Dissolved	ug/L	ND	20.0	06/10/11 10:50	
Vanadium, Dissolved	ug/L	ND	50.0	06/10/11 10:50	
Zinc, Dissolved	ug/L	ND	40.0	06/10/11 10:50	

LABORATORY CONTROL SAMPLE: 73575

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony, Dissolved	ug/L	500	468	94	80-120	
Arsenic, Dissolved	ug/L	500	478	96	80-120	
Barium, Dissolved	ug/L	500	472	94	80-120	
Beryllium, Dissolved	ug/L	500	494	99	80-120	
Cadmium, Dissolved	ug/L	500	466	93	80-120	
Cobalt, Dissolved	ug/L	500	483	97	80-120	
Lead, Dissolved	ug/L	500	484	97	80-120	
Manganese, Dissolved	ug/L	500	483	97	80-120	
Molybdenum, Dissolved	ug/L	500	509	102	80-120	
Nickel, Dissolved	ug/L	500	490	98	80-120	
Selenium, Dissolved	ug/L	500	465	93	80-120	
Silver, Dissolved	ug/L	250	242	97	80-120	
Thallium, Dissolved	ug/L	500	470	94	80-120	
Vanadium, Dissolved	ug/L	500	470	94	80-120	
Zinc, Dissolved	ug/L	500	483	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 73576 73577

Parameter	Units	257959003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Antimony, Dissolved	ug/L	ND	500	500	536	522	107	104	75-125	3	

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QUALITY CONTROL DATA

Project: 2705191
Pace Project No.: 257959

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 73576 73577

Parameter	Units	257959003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Arsenic, Dissolved	ug/L	ND	500	500	569	558	114	112	75-125	2	
Barium, Dissolved	ug/L	ND	500	500	612	616	111	112	75-125	.7	
Beryllium, Dissolved	ug/L	ND	500	500	543	537	109	107	75-125	1	
Cadmium, Dissolved	ug/L	ND	500	500	551	538	110	108	75-125	2	
Cobalt, Dissolved	ug/L	ND	500	500	465	456	90	88	75-125	2	
Lead, Dissolved	ug/L	ND	500	500	455	452	90	89	75-125	.7	
Manganese, Dissolved	ug/L	12800	500	500	13600	13400	162	130	75-125	1	M1
Molybdenum, Dissolved	ug/L	ND	500	500	520	513	102	101	75-125	1	
Nickel, Dissolved	ug/L	119	500	500	577	567	91	90	75-125	2	
Selenium, Dissolved	ug/L	ND	500	500	566	549	112	109	75-125	3	
Silver, Dissolved	ug/L	ND	250	250	298	299	119	119	75-125	.07	
Thallium, Dissolved	ug/L	ND	500	500	432	431	85	85	75-125	.2	
Vanadium, Dissolved	ug/L	ND	500	500	479	477	95	94	75-125	.5	
Zinc, Dissolved	ug/L	ND	500	500	463	458	91	90	75-125	.9	

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QUALITY CONTROL DATA

Project: 2705191
Pace Project No.: 257959

QC Batch: MERP/1451 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury ,Dissolved
Associated Lab Samples: 257959003, 257959007, 257959010

METHOD BLANK: 73264 Matrix: Water
Associated Lab Samples: 257959003, 257959007, 257959010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	06/08/11 10:15	

LABORATORY CONTROL SAMPLE: 73265

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	5.0	101	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 73266 73267

Parameter	Units	257959003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Mercury, Dissolved	ug/L	ND	5	5	2.1	2.2	42	43	85-115	2	M1

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QUALITY CONTROL DATA

Project: 2705191
Pace Project No.: 257959

QC Batch: MSV/4651 Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 257959001, 257959002, 257959004, 257959006, 257959008, 257959012, 257959013

METHOD BLANK: 73384 Matrix: Water
Associated Lab Samples: 257959001, 257959002, 257959004, 257959006, 257959008, 257959012, 257959013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	0.50	06/08/11 12:05	
Ethanol	ug/L	ND	250	06/08/11 12:05	
Ethylbenzene	ug/L	ND	0.50	06/08/11 12:05	
Methyl-tert-butyl ether	ug/L	ND	0.50	06/08/11 12:05	
tert-Butyl Alcohol	ug/L	ND	5.0	06/08/11 12:05	
Toluene	ug/L	ND	0.50	06/08/11 12:05	
Xylene (Total)	ug/L	ND	1.5	06/08/11 12:05	
1,2-Dichloroethane-d4 (S)	%	93	80-124	06/08/11 12:05	
4-Bromofluorobenzene (S)	%	100	80-120	06/08/11 12:05	
Dibromofluoromethane (S)	%	97	80-122	06/08/11 12:05	
Toluene-d8 (S)	%	98	80-123	06/08/11 12:05	

LABORATORY CONTROL SAMPLE: 73385

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	19.2	96	76-127	
Ethanol	ug/L	400	344	86	31-182	
Ethylbenzene	ug/L	20	19.1	95	72-125	
Methyl-tert-butyl ether	ug/L	20	18.5	93	58-145	
tert-Butyl Alcohol	ug/L	100	91.8	92	31-166	
Toluene	ug/L	20	18.6	93	69-125	
Xylene (Total)	ug/L	60	57.3	96	74-124	
1,2-Dichloroethane-d4 (S)	%			90	80-124	
4-Bromofluorobenzene (S)	%			98	80-120	
Dibromofluoromethane (S)	%			100	80-122	
Toluene-d8 (S)	%			98	80-123	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 73637 73638

Parameter	Units	257959001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Benzene	ug/L	4.8	20	20	26.2	28.6	107	119	75-124	9	
Ethanol	ug/L	ND	400	400	356	366	89	92	36-177	3	
Ethylbenzene	ug/L	0.96	20	20	22.7	23.7	108	114	76-124	4	
Methyl-tert-butyl ether	ug/L	ND	20	20	19.0	20.2	95	101	72-130	6	
tert-Butyl Alcohol	ug/L	ND	100	100	86.8	91.8	85	90	36-164	6	
Toluene	ug/L	4.2	20	20	25.0	27.0	104	114	75-124	8	
Xylene (Total)	ug/L	5.1	60	60	70.2	73.3	108	114	76-123	4	
1,2-Dichloroethane-d4 (S)	%						88	89	80-124		
4-Bromofluorobenzene (S)	%						98	98	80-120		

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QUALITY CONTROL DATA

Project: 2705191
Pace Project No.: 257959

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 73637 73638

Parameter	Units	257959001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Dibromofluoromethane (S)	%						98	99	80-122		
Toluene-d8 (S)	%						98	98	80-123		

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QUALITY CONTROL DATA

Project: 2705191
Pace Project No.: 257959

QC Batch: MSV/4660 Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 257959003, 257959005, 257959007, 257959009, 257959010, 257959011, 257959014

METHOD BLANK: 73661 Matrix: Water
Associated Lab Samples: 257959003, 257959005, 257959007, 257959009, 257959010, 257959011, 257959014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Acetone	ug/L	ND	5.0	06/09/11 15:34	
Benzene	ug/L	ND	0.50	06/09/11 15:34	
Ethanol	ug/L	ND	250	06/09/11 15:34	
Ethylbenzene	ug/L	ND	0.50	06/09/11 15:34	
Methyl-tert-butyl ether	ug/L	ND	0.50	06/09/11 15:34	
tert-Butyl Alcohol	ug/L	ND	5.0	06/09/11 15:34	
Toluene	ug/L	ND	0.50	06/09/11 15:34	
Xylene (Total)	ug/L	ND	1.5	06/09/11 15:34	
1,2-Dichloroethane-d4 (S)	%	93	80-124	06/09/11 15:34	
4-Bromofluorobenzene (S)	%	102	80-120	06/09/11 15:34	
Dibromofluoromethane (S)	%	98	80-122	06/09/11 15:34	
Toluene-d8 (S)	%	98	80-123	06/09/11 15:34	

LABORATORY CONTROL SAMPLE: 73662

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acetone	ug/L	40	32.4	81	30-180	
Benzene	ug/L	20	20.3	102	76-127	
Ethanol	ug/L	400	309	77	31-182	
Ethylbenzene	ug/L	20	19.9	100	72-125	
Methyl-tert-butyl ether	ug/L	20	19.1	96	58-145	
tert-Butyl Alcohol	ug/L	100	87.7	88	31-166	
Toluene	ug/L	20	19.3	97	69-125	
Xylene (Total)	ug/L	60	59.9	100	74-124	
1,2-Dichloroethane-d4 (S)	%			91	80-124	
4-Bromofluorobenzene (S)	%			99	80-120	
Dibromofluoromethane (S)	%			100	80-122	
Toluene-d8 (S)	%			97	80-123	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 73745 73746

Parameter	Units	257959009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Acetone	ug/L	ND	40	40	23.4	28.2	59	71	58-146	19	
Benzene	ug/L	ND	20	20	21.3	21.5	105	106	75-124	.8	
Ethanol	ug/L	ND	400	400	316	376	79	94	36-177	17	
Ethylbenzene	ug/L	ND	20	20	21.3	21.1	105	104	76-124	.9	
Methyl-tert-butyl ether	ug/L	ND	20	20	17.7	20.0	89	100	72-130	12	
tert-Butyl Alcohol	ug/L	ND	100	100	71.9	89.9	71	89	36-164	22	
Toluene	ug/L	ND	20	20	20.6	20.3	102	101	75-124	1	

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QUALITY CONTROL DATA

Project: 2705191
Pace Project No.: 257959

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 73745 73746

Parameter	Units	257959009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Xylene (Total)	ug/L	ND	60	60	63.8	63.4	105	104	76-123	.6	
1,2-Dichloroethane-d4 (S)	%						85	92	80-124		
4-Bromofluorobenzene (S)	%						100	99	80-120		
Dibromofluoromethane (S)	%						98	101	80-122		
Toluene-d8 (S)	%						98	97	80-123		

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QUALITY CONTROL DATA

Project: 2705191
Pace Project No.: 257959

QC Batch: MSV/4649 Analysis Method: CA LUFT
QC Batch Method: CA LUFT Analysis Description: CA LUFT MSV GRO
Associated Lab Samples: 257959001, 257959002, 257959003, 257959004, 257959005, 257959006, 257959007, 257959008, 257959009, 257959010, 257959012, 257959013, 257959014

METHOD BLANK: 73380 Matrix: Water
Associated Lab Samples: 257959001, 257959002, 257959003, 257959004, 257959005, 257959006, 257959007, 257959008, 257959009, 257959010, 257959012, 257959013, 257959014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-Gasoline (C05-C12)	ug/L	ND	50.0	06/08/11 12:05	
4-Bromofluorobenzene (S)	%	100	82-116	06/08/11 12:05	

LABORATORY CONTROL SAMPLE: 73381

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-Gasoline (C05-C12)	ug/L	500	558	112	60-140	
4-Bromofluorobenzene (S)	%			100	82-116	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 73641 73642

Parameter	Units	257959002 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	633	614	120	116	60-140	3	
4-Bromofluorobenzene (S)	%						99	101	82-116		

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QUALITY CONTROL DATA

Project: 2705191
Pace Project No.: 257959

QC Batch: MSV/4662
QC Batch Method: CA LUFT
Analysis Method: CA LUFT
Analysis Description: CA LUFT MSV GRO
Associated Lab Samples: 257959011

METHOD BLANK: 73665
Matrix: Water
Associated Lab Samples: 257959011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-Gasoline (C05-C12)	ug/L	ND	50.0	06/09/11 15:34	
4-Bromofluorobenzene (S)	%	102	82-116	06/09/11 15:34	

LABORATORY CONTROL SAMPLE: 73666

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-Gasoline (C05-C12)	ug/L	500	500	100	60-140	
4-Bromofluorobenzene (S)	%			100	82-116	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 73667 73668

Parameter	Units	257959011 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	51600	25000	25000	78400	79000	107	110	60-140	.8	
4-Bromofluorobenzene (S)	%						99	99	82-116		

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QUALITY CONTROL DATA

Project: 2705191
Pace Project No.: 257959

QC Batch: WET/2844 Analysis Method: SM 5210B
QC Batch Method: SM 5210B Analysis Description: 5210B BOD, 5 day
Associated Lab Samples: 257959003, 257959007, 257959010

METHOD BLANK: 72927 Matrix: Water
Associated Lab Samples: 257959003, 257959007, 257959010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	ug/L	ND	2000	06/08/11 15:40	

LABORATORY CONTROL SAMPLE: 72928

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	ug/L	198000	185000	93	85-115	

SAMPLE DUPLICATE: 72929

Parameter	Units	257926001 Result	Dup Result	RPD	Qualifiers
BOD, 5 day	ug/L	12.5 mg/L	12100	3	

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QUALITY CONTROL DATA

Project: 2705191
Pace Project No.: 257959

QC Batch: WETA/2046 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 257959001, 257959002, 257959003, 257959004, 257959005, 257959006, 257959007, 257959008, 257959009, 257959010, 257959011, 257959012, 257959013, 257959014

METHOD BLANK: 74160 Matrix: Water
Associated Lab Samples: 257959001, 257959002, 257959003, 257959004, 257959005, 257959006, 257959007, 257959008, 257959009, 257959010, 257959011, 257959012, 257959013, 257959014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	ug/L	ND	1000	06/16/11 14:21	
Sulfate	ug/L	ND	1000	06/16/11 14:21	

LABORATORY CONTROL SAMPLE: 74161

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	ug/L	5000	4520	90	90-110	
Sulfate	ug/L	15000	14300	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 74162 74163

Parameter	Units	257959001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Chloride	ug/L	387000	100000	100000	470000	472000	84	85	90-110	.4	M1
Sulfate	ug/L	71700	75000	75000	135000	143000	85	95	90-110	6	M1

MATRIX SPIKE SAMPLE: 74164

Parameter	Units	258044002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	ug/L	59.8 mg/L	5000	60100	6	90-110	E,M1
Sulfate	ug/L	3.1 mg/L	15000	17400	95	90-110	

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QUALITY CONTROL DATA

Project: 2705191
Pace Project No.: 257959

QC Batch: WETA/2038 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, preserved
Associated Lab Samples: 257959001, 257959002, 257959003, 257959004, 257959005, 257959006, 257959007, 257959008, 257959009, 257959010, 257959011, 257959012, 257959013, 257959014

METHOD BLANK: 73212 Matrix: Water
Associated Lab Samples: 257959001, 257959002, 257959003, 257959004, 257959005, 257959006, 257959007, 257959008, 257959009, 257959010, 257959011, 257959012, 257959013, 257959014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	ug/L	ND	50.0	06/07/11 14:56	

LABORATORY CONTROL SAMPLE: 73213

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	ug/L	1000	1030	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 73214 73215

Parameter	Units	257948001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Nitrogen, NO2 plus NO3	ug/L	0.47 mg/L	1000	1000	1600	1660	112	119	90-110	4	M1

MATRIX SPIKE SAMPLE: 73216

Parameter	Units	257959011 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	ug/L	50.1	1000	1170	112	90-110	M1

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QUALITY CONTROL DATA

Project: 2705191
Pace Project No.: 257959

QC Batch: WETA/2047 Analysis Method: EPA 410.4
QC Batch Method: EPA 410.4 Analysis Description: 410.4 COD
Associated Lab Samples: 257959003, 257959007, 257959010

METHOD BLANK: 74346 Matrix: Water
Associated Lab Samples: 257959003, 257959007, 257959010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	ug/L	ND	5000	06/15/11 13:00	

LABORATORY CONTROL SAMPLE: 74347

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	ug/L	42500	43600	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 74348 74349

Parameter	Units	257959010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Chemical Oxygen Demand	ug/L	15100	50000	50000	65600	66700	101	103	90-110	2	

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QUALITY CONTROL DATA

Project: 2705191
Pace Project No.: 257959

QC Batch: WETA/2034 Analysis Method: SM 4500-NO2 B
QC Batch Method: SM 4500-NO2 B Analysis Description: SM4500NO2-B, Nitrite, unpres
Associated Lab Samples: 257959001, 257959002, 257959003, 257959004, 257959005, 257959006, 257959007, 257959008, 257959009, 257959010, 257959011, 257959012, 257959013, 257959014

METHOD BLANK: 72996 Matrix: Water
Associated Lab Samples: 257959001, 257959002, 257959003, 257959004, 257959005, 257959006, 257959007, 257959008, 257959009, 257959010, 257959011, 257959012, 257959013, 257959014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrite as N	ug/L	ND	10.0	06/03/11 15:03	

LABORATORY CONTROL SAMPLE: 72997

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrite as N	ug/L	50	50.3	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 72998 72999

Parameter	Units	257959008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Nitrite as N	ug/L	ND	50	50	49.9	50.5	88	89	71-109	1	

MATRIX SPIKE SAMPLE: 73000

Parameter	Units	257959010 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrite as N	ug/L	ND	50	59.0	99	71-109	

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QUALIFIERS

Project: 2705191
Pace Project No.: 257959

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 NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

LABORATORIES

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

BATCH QUALIFIERS

Batch: WET/2852

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

ANALYTE QUALIFIERS

1n	The DRO result for this sample did not match the pattern of the laboratory standard for diesel.
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.
B1	Less than 1.0 mg/L DO remained for all dilutions set. The reported value is an estimated greater than value and is calculated for the dilution using the least amount of sample.
D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
E	Analyte concentration exceeded the calibration range. The reported result is estimated.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2705191
Pace Project No.: 257959

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
257959003	MW-12_20110630	RSK 175	AIR/12436		
257959007	MW-6_20110630	RSK 175	AIR/12443		
257959010	MW-9_20110630	RSK 175	AIR/12436		
257959001	MW-10_20110630	EPA 3510 Modified	OEXT/3826	EPA 8015B	GCSV/2571
257959002	MW-11_20110630	EPA 3510 Modified	OEXT/3826	EPA 8015B	GCSV/2571
257959003	MW-12_20110630	EPA 3510 Modified	OEXT/3826	EPA 8015B	GCSV/2571
257959004	MW-12A_20110630	EPA 3510 Modified	OEXT/3826	EPA 8015B	GCSV/2571
257959005	MW-13_20110630	EPA 3510 Modified	OEXT/3826	EPA 8015B	GCSV/2571
257959006	MW-3_20110630	EPA 3510 Modified	OEXT/3826	EPA 8015B	GCSV/2571
257959007	MW-6_20110630	EPA 3510 Modified	OEXT/3826	EPA 8015B	GCSV/2571
257959008	MW-7_20110630	EPA 3510 Modified	OEXT/3826	EPA 8015B	GCSV/2571
257959009	MW-8_20110630	EPA 3510 Modified	OEXT/3826	EPA 8015B	GCSV/2571
257959010	MW-9_20110630	EPA 3510 Modified	OEXT/3826	EPA 8015B	GCSV/2571
257959011	MW-14_20110630	EPA 3510 Modified	OEXT/3826	EPA 8015B	GCSV/2571
257959012	MW-15_20110630	EPA 3510 Modified	OEXT/3826	EPA 8015B	GCSV/2571
257959013	MW-16_20110630	EPA 3510 Modified	OEXT/3826	EPA 8015B	GCSV/2571
257959014	MW-17_20110630	EPA 3510 Modified	OEXT/3826	EPA 8015B	GCSV/2571
257959001	MW-10_20110630	EPA 3010	MPRP/2267	EPA 6010	ICP/2171
257959002	MW-11_20110630	EPA 3010	MPRP/2267	EPA 6010	ICP/2171
257959003	MW-12_20110630	EPA 3010	MPRP/2267	EPA 6010	ICP/2171
257959004	MW-12A_20110630	EPA 3010	MPRP/2267	EPA 6010	ICP/2171
257959005	MW-13_20110630	EPA 3010	MPRP/2267	EPA 6010	ICP/2171
257959006	MW-3_20110630	EPA 3010	MPRP/2267	EPA 6010	ICP/2171
257959007	MW-6_20110630	EPA 3010	MPRP/2267	EPA 6010	ICP/2171
257959008	MW-7_20110630	EPA 3010	MPRP/2267	EPA 6010	ICP/2171
257959009	MW-8_20110630	EPA 3010	MPRP/2267	EPA 6010	ICP/2171
257959010	MW-9_20110630	EPA 3010	MPRP/2267	EPA 6010	ICP/2171
257959011	MW-14_20110630	EPA 3010	MPRP/2267	EPA 6010	ICP/2171
257959012	MW-15_20110630	EPA 3010	MPRP/2267	EPA 6010	ICP/2171
257959013	MW-16_20110630	EPA 3010	MPRP/2267	EPA 6010	ICP/2171
257959014	MW-17_20110630	EPA 3010	MPRP/2267	EPA 6010	ICP/2171
257959003	MW-12_20110630	EPA 3010	MPRP/2268	EPA 6010	ICP/2173
257959007	MW-6_20110630	EPA 3010	MPRP/2268	EPA 6010	ICP/2173
257959010	MW-9_20110630	EPA 3010	MPRP/2268	EPA 6010	ICP/2173
257959003	MW-12_20110630	EPA 7470	MERP/1451	EPA 7470	MERC/1465
257959007	MW-6_20110630	EPA 7470	MERP/1451	EPA 7470	MERC/1465
257959010	MW-9_20110630	EPA 7470	MERP/1451	EPA 7470	MERC/1465
257959001	MW-10_20110630	EPA 5030B/8260	MSV/4651		
257959002	MW-11_20110630	EPA 5030B/8260	MSV/4651		
257959003	MW-12_20110630	EPA 5030B/8260	MSV/4660		
257959004	MW-12A_20110630	EPA 5030B/8260	MSV/4651		
257959005	MW-13_20110630	EPA 5030B/8260	MSV/4660		
257959006	MW-3_20110630	EPA 5030B/8260	MSV/4651		

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2705191
Pace Project No.: 257959

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
257959007	MW-6_20110630	EPA 5030B/8260	MSV/4660		
257959008	MW-7_20110630	EPA 5030B/8260	MSV/4651		
257959009	MW-8_20110630	EPA 5030B/8260	MSV/4660		
257959010	MW-9_20110630	EPA 5030B/8260	MSV/4660		
257959011	MW-14_20110630	EPA 5030B/8260	MSV/4660		
257959012	MW-15_20110630	EPA 5030B/8260	MSV/4651		
257959013	MW-16_20110630	EPA 5030B/8260	MSV/4651		
257959014	MW-17_20110630	EPA 5030B/8260	MSV/4660		
257959001	MW-10_20110630	CA LUFT	MSV/4649		
257959002	MW-11_20110630	CA LUFT	MSV/4649		
257959003	MW-12_20110630	CA LUFT	MSV/4649		
257959004	MW-12A_20110630	CA LUFT	MSV/4649		
257959005	MW-13_20110630	CA LUFT	MSV/4649		
257959006	MW-3_20110630	CA LUFT	MSV/4649		
257959007	MW-6_20110630	CA LUFT	MSV/4649		
257959008	MW-7_20110630	CA LUFT	MSV/4649		
257959009	MW-8_20110630	CA LUFT	MSV/4649		
257959010	MW-9_20110630	CA LUFT	MSV/4649		
257959011	MW-14_20110630	CA LUFT	MSV/4662		
257959012	MW-15_20110630	CA LUFT	MSV/4649		
257959013	MW-16_20110630	CA LUFT	MSV/4649		
257959014	MW-17_20110630	CA LUFT	MSV/4649		
257959003	MW-12_20110630	SM 3500-Fe B#4	WET/2852		
257959007	MW-6_20110630	SM 3500-Fe B#4	WET/2852		
257959010	MW-9_20110630	SM 3500-Fe B#4	WET/2852		
257959003	MW-12_20110630	SM 3500-Fe B#4	WET/2853		
257959007	MW-6_20110630	SM 3500-Fe B#4	WET/2853		
257959010	MW-9_20110630	SM 3500-Fe B#4	WET/2853		
257959003	MW-12_20110630	SM 5210B	WET/2844	SM 5210B	WET/2860
257959007	MW-6_20110630	SM 5210B	WET/2844	SM 5210B	WET/2860
257959010	MW-9_20110630	SM 5210B	WET/2844	SM 5210B	WET/2860
257959001	MW-10_20110630	EPA 300.0	WETA/2046		
257959002	MW-11_20110630	EPA 300.0	WETA/2046		
257959003	MW-12_20110630	EPA 300.0	WETA/2046		
257959004	MW-12A_20110630	EPA 300.0	WETA/2046		
257959005	MW-13_20110630	EPA 300.0	WETA/2046		
257959006	MW-3_20110630	EPA 300.0	WETA/2046		
257959007	MW-6_20110630	EPA 300.0	WETA/2046		
257959008	MW-7_20110630	EPA 300.0	WETA/2046		
257959009	MW-8_20110630	EPA 300.0	WETA/2046		
257959010	MW-9_20110630	EPA 300.0	WETA/2046		
257959011	MW-14_20110630	EPA 300.0	WETA/2046		
257959012	MW-15_20110630	EPA 300.0	WETA/2046		

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.: 257959

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
257959013	MW-16_20110630	EPA 300.0	WETA/2046		
257959014	MW-17_20110630	EPA 300.0	WETA/2046		
257959001	MW-10_20110630	EPA 353.2	WETA/2038		
257959002	MW-11_20110630	EPA 353.2	WETA/2038		
257959003	MW-12_20110630	EPA 353.2	WETA/2038		
257959004	MW-12A_20110630	EPA 353.2	WETA/2038		
257959005	MW-13_20110630	EPA 353.2	WETA/2038		
257959006	MW-3_20110630	EPA 353.2	WETA/2038		
257959007	MW-6_20110630	EPA 353.2	WETA/2038		
257959008	MW-7_20110630	EPA 353.2	WETA/2038		
257959009	MW-8_20110630	EPA 353.2	WETA/2038		
257959010	MW-9_20110630	EPA 353.2	WETA/2038		
257959011	MW-14_20110630	EPA 353.2	WETA/2038		
257959012	MW-15_20110630	EPA 353.2	WETA/2038		
257959013	MW-16_20110630	EPA 353.2	WETA/2038		
257959014	MW-17_20110630	EPA 353.2	WETA/2038		
257959003	MW-12_20110630	EPA 410.4	WETA/2047		
257959007	MW-6_20110630	EPA 410.4	WETA/2047		
257959010	MW-9_20110630	EPA 410.4	WETA/2047		
257959001	MW-10_20110630	SM 4500-NO2 B	WETA/2034		
257959002	MW-11_20110630	SM 4500-NO2 B	WETA/2034		
257959003	MW-12_20110630	SM 4500-NO2 B	WETA/2034		
257959004	MW-12A_20110630	SM 4500-NO2 B	WETA/2034		
257959005	MW-13_20110630	SM 4500-NO2 B	WETA/2034		
257959006	MW-3_20110630	SM 4500-NO2 B	WETA/2034		
257959007	MW-6_20110630	SM 4500-NO2 B	WETA/2034		
257959008	MW-7_20110630	SM 4500-NO2 B	WETA/2034		
257959009	MW-8_20110630	SM 4500-NO2 B	WETA/2034		
257959010	MW-9_20110630	SM 4500-NO2 B	WETA/2034		
257959011	MW-14_20110630	SM 4500-NO2 B	WETA/2034		
257959012	MW-15_20110630	SM 4500-NO2 B	WETA/2034		
257959013	MW-16_20110630	SM 4500-NO2 B	WETA/2034		
257959014	MW-17_20110630	SM 4500-NO2 B	WETA/2034		

McCampbell Analytical, Inc.
"When Quality Counts"

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Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

Pace Analytical Services, Inc. 940 S. Harney Strcet Seattle, WA 98108	Client Project ID: #257959; WG_Q_201106; 449 Hegenberger	Date Sampled: 06/02/11
		Date Received: 06/02/11
	Client Contact: Regina Stc. Marie	Date Reported: 06/10/11
	Client P.O.:	Date Completed: 06/09/11

WorkOrder: 1106114

June 10, 2011

Dear Regina:

Enclosed within are:

1) The results of the **3** analyzed samples from your project: **#257959; WG_Q_201106; 449 Hegenberger,**
2) A QC report for the above samples,
3) A copy of the chain of custody, and
4) An invoice for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits.

If you have any questions or concerns, please feel free to give me a call. Thank you for choosing

McCampbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius
Laboratory Manager
McCampbell Analytical, Inc.

1106114

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: of 3 of 3
Cooler # ____ of ____

2Q2011 GW Event

anteagroup

McCampbell

Required Lab Information:		Required Project Information		Required Invoice Information:	
Lab Name:	Pace-Seattle	Site ID #: 2705191	Task: WG_Q_201106	Send Invoice to:	[illegible]
Address:		AnteaGrp proj#		Address:	11050 White Rock Road, Suite 110
940 S. Harney Street Seattle WA 98108		Site Address: 449 Hegenberger		City/State	Rancho Cordova CA 95670; Phone #: 1-800-477-7411
Lab PM:	Regina Ste. Marie	City: Oakland	State: CA 94621	Reimbursement project?	Non-reimbursement project? Y; Mark one
Phone/Fax:	P: 206-957-2433 F: 206-767-5063	AG PM Name:	Dennis Dettloff	Send EDD to	copelstor@intelligentlabs.com
Lab PM email:	Regina.SteMarie@pacelabs.com	Phone/Fax:	P: 1-800-477-7411 F: 916-638-8385	CC Hardcopy report to	
Applicable Lab Quote #:		AG PM Email:	dennis.dettloff@anteagroup.com	CC Hardcopy report to	

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

ITEM #	SAMPLE ID (One Character per box; 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	Comments/Lab Sample I.D.
1	MW-10_20110630	WG								
2	MW-11_20110630	WG								
3	MW-12_20110630	WG	G	6-2-11	15 15	13	N	X X X X X X X	x x x x x x x x x x X	
4	MW-12A_20110630	WG								
5	MW-13_20110630	WG								
6	MW-3_20110630	WG								
7	MW-6_20110630	WG	G	6-2-11	13.15	13	N	X X X X X X X	x x x x x x x x x x X	
8	MW-7_20110630	WG								
9	MW-8_20110630	WG								
10	MW-9_20110630	WG	G	6-2-11	1415	13	N	X X X X X X X	x x x x x x x x x x X	
11										
12										

Additional Comments/Special Instructions:

Global ID: T0600101476

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
[signature] / BTS	6/2/11	1735	[signature]		
[signature]	6/2	1855	[signature]	6/2	1855

Sample Receipt Conditions: Temp in °C; Samples on Ice?; Sample Intact?; Trip Blank? — Y/N Y/N Y/N

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

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Ben Pavell
SIGNATURE of SAMPLER: [signature]
DATE Signed: 6-2-11 Time: 1735

ICE / t° 4.4
GOOD CONDITION ____
HEAD SPACE ABSENT ____
DECHLORINATED IN LAB ____
APPROPRIATE CONTAINERS ____
PRESERVED IN LAB ____
PRESERVATION VOAS | O&G | METALS | OTHER

Inogen

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

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1106114 **ClientCode: PASS**

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

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

Email: Regina.SteMarie@pacelabs.com
cc:
PO:
ProjectNo: WG_Q_201106; 449 Hegenberger

Bill to:
David Sowle
David Sowle
11050 White Rock Road Suite 110
Rancho Cordova, CA 95670

Requested TAT: 5 days
Date Received: **06/02/2011**
Date Printed: **06/03/2011**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
1106114-001	MW-12_20110630	Water	6/2/2011 15:15	☐	C	D	E	J	B	F	H	A	I	A	B	G
1106114-002	MW-6_20110630	Water	6/2/2011 13:15	☐	C	D	E	J	B	F	H		I	A	B	G
1106114-003	MW-9_20110630	Water	6/2/2011 14:15	☐	C	D	E	J	B	F	H		I	A	B	G

Test Legend:

1	218_6_W	2	300_1_W	3	300_1SPE_W	4	Alka(spe)_W	5	AMMONIA_W
6	IC(CO2)_W	7	METALSMS_W	8	PREDF REPORT	9	SALINITY_W	10	TCEC-Enum_W
11	TKN_W	12	TOC_W						

Prepared by: Ana Venegas

Comments:

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

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

Sample Receipt Checklist

Client Name: **Pace Analytical Services, Inc.**
Date and Time Received: **6/2/2011 7:30:27 PM**

Project Name: **WG_Q_201106; 449 Hegenberger**
Checklist completed and reviewed by: Ana Venegas

WorkOrder N°: **1106114** Matrix Water
Carrier: Benjamin Yslas (MAI Courier)

Chain of Custody (COC) Information

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

Sample Receipt Information

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

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature	Cooler Temp: 4.6°C		NA ☐
Water - VOA vials have zero headspace / no bubbles?	Yes ☑	No ☐	No VOA vials submitted ☐
Sample labels checked for correct preservation?	Yes ☑	No ☐	
Metal - pH acceptable upon receipt (pH<2)?	Yes ☑	No ☐	NA ☐
Samples Received on Ice?	Yes ☑	No ☐	

(Ice Type: WET ICE)

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

Client contacted: Date contacted: Contacted by:

Comments:

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Pace Analytical Services, Inc.	Client Project ID: #257959; WG_Q_201106; 449 Hegenberger	Date Sampled: 06/02/11
940 S. Harney Street		Date Received: 06/02/11
	Client Contact: Regina Ste. Marie	Date Extracted: 06/02/11-06/03/11
Seattle, WA 98108	Client P.O.:	Date Analyzed: 06/02/11-06/03/11

Hexachrome by IC*

Analytical Method: E218.6 Work Order: 1106114

Lab ID	Client ID	Matrix	Hexachrome	DF	Comments
1106114-001C	MW-12_20110630	W	ND<2.0	10	a1
1106114-002C	MW-6_20110630	W	ND<2.0	10	a1
1106114-003C	MW-9_20110630	W	ND	1	

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

* water samples are reported in µg/L.

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

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

a1) sample diluted due to matrix interference

DHS ELAP Certifieation 1644

Angela Rydelius, Lab Manager

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

Pace Analytical Services, Inc.	Client Project ID: #257959; WG_Q_201106; 449 Hegenberger	Date Sampled: 06/02/11
		Date Received: 06/02/11
940 S. Harney Street	Client Contact: Regina Ste. Marie	Date Extracted: 06/03/11-06/06/11
Seattle, WA 98108	Client P.O.:	Date Analyzed 06/03/11-06/06/11

Inorganic Anions by IC*

Extraction method E300.1 Analytical methods E300.1 Work Order: 1106114

Lab ID	Client ID	Matrix	Bromide	DF	%SS	Comments
1106114-001D	MW-12_20110630	W	33	10	101	
1106114-002D	MW-6_20110630	W	2.1	10	95	
1106114-003D	MW-9_20110630	W	2.0	1	95	

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	0.1	mg/L
	S	NA	NA

* water samples are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in mg/wipe, product/oil/non-aqueous liquid samples in mg/L.

* [Nitrate as $NO3^-$] = 4.4268 x [Nitrate as N]

means surrogate diluted out of range or surrogate coelutes with another peak; N/A means surrogate not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

DHS ELAP Certification 1644

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.
"When Quality Counts"

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

Pace Analytical Services, Inc.	Client Project ID: #257959; WG_Q_201106; 449 Hegenberger	Date Sampled: 06/02/11
940 S. Harney Street		Date Received: 06/02/11
	Client Contact: Regina Ste. Marie	Date Extracted: 06/04/11-06/07/11
Seattle, WA 98108	Client P.O.:	Date Analyzed 06/04/11-06/07/11

Disinfection Byproduct*

Extraction method E300.1 Analytical methods E300.1 Work Order: 1106114

Lab ID	Client ID	Matrix	Bromate	DF	% SS	Comments
1106114-001E	MW-12_20110630	W	ND<0.050	10	N/A	a17
1106114-002E	MW-6_20110630	W	ND	1	N/A	
1106114-003E	MW-9_20110630	W	ND	1	N/A	

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	0.005	mg/L
	S	NA	NA

* water samples are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in mg/wipe, product/oil/non-aqueous liquid samples in mg/L.

means surrogate diluted out of range or surrogate coelutes with another peak; N/A means surrogate not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

a17) sample diluted due to high inorganic content

DHS ELAP Certification 1644

Angela Rydelius, Lab Manager

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

Pace Analytical Services, Inc.	Client Project ID: #257959; WG_Q_201106; 449 Hegenberger	Date Sampled: 06/02/11
		Date Received: 06/02/11
940 S. Harney Street	Client Contact: Regina Ste. Marie	Date Extracted: 06/07/11
Seattle, WA 98108	Client P.O.:	Date Analyzed: 06/07/11

Total & Speciated Alkalinity as Calcium Carbonate*

Extraction method: SM2320B Analytical methods: SM2320B Work Order: 1106114

Lab ID	Client ID	Matrix	Total*	Carbonate*	Bicarbonate*	Hydroxide*	DF	Comments
001J	MW-12_20110630	W	905	ND	905	ND	1	
002J	MW-6_20110630	W	828	ND	828	ND	1	
003J	MW-9_20110630	W	226	ND	226	ND	1	

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	1.0	1.0	1.0	1.0	mg CaCO3/L
	S	NA	NA	NA	NA	mg/Kg

*water samples are reported in mg calcium carbonate/L. Hydroxide, Carbonate & Bicarbonate alkalinity measure @ end-point of pH = 8.3 & 4.5 per SM2320B.

DF = Dilution Factor

DHS ELAP Certification 1644

AR Angela Rydelius, Lab Manager

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

Pace Analytical Services, Inc.	Client Project ID: #257959; WG_Q_201106; 449 Hegenberger	Date Sampled: 06/02/11
		Date Received: 06/02/11
940 S. Harney Street	Client Contact: Regina Ste. Marie	Date Extracted: 06/09/11
Seattle, WA 98108	Client P.O.:	Date Analyzed: 06/09/11

Ammonia as N*

Analytical Method: E350.1 Work Order: 1106114

Lab ID	Client ID	Matrix	Total Ammonia as N	DF	Comments
1106114-001B	MW-12_20110630	W	0.14	1	
1106114-002B	MW-6_20110630	W	2.9	1	
1106114-003B	MW-9_20110630	W	0.86	1	

Reporting Limit for DF = 1; ND means not deteeted at or above the reporting limit	W	0.05 mg/L	
	S	NA	

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

DF = Dilution Factor

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Angela Rydelius, Lab Manager

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Pace Analytical Services, Inc.	Client Project ID: #257959; WG_Q_201106; 449 Hegenberger	Date Sampled: 06/02/11
		Date Received: 06/02/11
940 S. Harney Street	Client Contact: Regina Ste. Marie	Date Extracted: 06/06/11
Seattle, WA 98108	Client P.O.:	Date Analyzed: 06/06/11

Inorganic Carbon as Carbon Dioxide*

Analytical Method: E415.3 Work Order: 1106114

Lab ID	Client ID	Matrix	IC as CO2	DF	Comments
1106114-001F	MW-12_20110630	W	1100	5	
1106114-002F	MW-6_20110630	W	870	5	
1106114-003F	MW-9_20110630	W	240	5	

Reporting Limit for DF = 1; ND means not detected at or above the reporting limit	W	3.7 mg/L	
	S	NA	

* water samples are reported in mg/L, soil/sludge/solid samples in mg/kg.

* Non-Purgeable Organic Carbon=NPOC; TOC=Total Organic Carbon; DOC=Dissolved Organic Carbon; POC=Purgeable Organic Cabon; IC=Inorganic Carbon.

DF = Dilution Faetor

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Pace Analytical Services, Inc.	Client Project ID: #257959; WG_Q_201106; 449 Hegenberger	Date Sampled: 06/02/11
940 S. Harney Street		Date Received: 06/02/11
	Client Contact: Regina Ste. Marie	Date Extracted: 06/02/11
Seattle, WA 98108	Client P.O.:	Date Analyzed: 06/06/11-06/08/11

Metals*

Extraction method: E200.8 Analytical methods: E200.8 Work Order: 1106114

Lab ID	Client ID	Matrix	Extraction Type	Chromium	DF	%SS	Comments
1106114-001H	MW-12_20110630	W	TOTAL	3.3	1	109	
1106114-002H	MW-6_20110630	W	TOTAL	4.3	1	103	
1106114-003H	MW-9_20110630	W	TOTAL	2.4	1	100	

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

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

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

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

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

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Pace Analytical Services, Inc.	Client Project ID: #257959; WG_Q_201106; 449 Hegenberger	Date Sampled: 06/02/11
940 S. Harney Street		Date Received: 06/02/11
	Client Contaet: Regina Ste. Marie	Date Extracted: 06/06/11
Seattle, WA 98108	Client P.O.:	Date Analyzed: 06/06/11

Salinity*

Analytical Method: SM2520B Work Order: 1106114

Lab ID	Client ID	Matrix	Salinity	DF	Comments
1106114-001I	MW-12_20110630	W	15600 @ 25.0°C	1	
1106114-002I	MW-6_20110630	W	1500 @ 25.0°C	1	
1106114-003I	MW-9_20110630	W	405 @ 25.0°C	1	

Reporting Limit for DF = 1; ND means not detected at or above the reporting limit	W	10 mg/L	
	S	NA	

* Salinity (mg/L) = 0.64 * S.C.(µmhos/cm @ 25°C) per SSSA volume 5 part 3.

DF = Dilution Faetor

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Pace Analytical Services, Inc.	Client Project ID: #257959; WG_Q_201106; 449 Hegenberger	Date Sampled: 06/02/11
940 S. Harney Street		Date Received: 06/02/11
	Client Contact: Regina Ste. Marie	Date Extracted: 06/02/11
Seattle, WA 98108	Client P.O.:	Date Analyzed: 06/04/11

Total Coliform / E. Coli, Enumeration

Analytical Method: SM9223B Work Order: 1106114

Lab ID	Client ID	Matrix	Total Coliform	95% Confident Interval	E. Coli	95% Confident Interval	DF	Comments
001A	MW-12_20110630	W	210	150 - 300	ND	---	1	
002A	MW-6_20110630	W	42,000	30,000 - 56,000	ND<100	---	100	
003A	MW-9_20110630	W	2.0	0.30 - 7.1	ND	---	1	

Reporting Limit & Reporting Units	W	1.0 MPN/100ml	
	S	NA	

DF = Dilution Factor

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Pace Analytical Services, Inc.	Client Project ID: #257959; WG_Q_201106; 449 Hegenberger	Date Sampled: 06/02/11
940 S. Harney Street		Date Received: 06/02/11
	Client Contact: Regina Ste. Marie	Date Extracted: 06/08/11
Seattle, WA 98108	Client P.O.:	Date Analyzed: 06/09/11

Total Kjeldahl Nitrogen*

Analytical Method: E351.2 Work Order: 1106114

Lab ID	Client ID	Matrix	TKN as N	DF	Comments
1106114-001B	MW-12_20110630	W	0.91	1	
1106114-002B	MW-6_20110630	W	4.8	1	
1106114-003B	MW-9_20110630	W	0.60	1	

Reporting Limit for DF = 1; ND means not detected at or above the reporting limit	W	0.15 mg/L	
	S	NA	

*water/product/oil/non-aqueous liquid samples are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter.

DF = Dilution Factor

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Pace Analytical Services, Inc.	Client Project ID: #257959; WG_Q_201106; 449 Hegenberger	Date Sampled: 06/02/11
		Date Received: 06/02/11
940 S. Harney Street	Client Contact: Regina Ste. Marie	Date Extracted: 06/06/11
Seattle, WA 98108	Client P.O.:	Date Analyzed: 06/06/11

Total Organic Carbon (TOC) reported as NPOC*

Analytical Method: E415.3 Work Order: 1106114

Lab ID	Client ID	Matrix	TOC	DF	Comments
1106114-001G	MW-12_20110630	W	9.1	1	
1106114-002G	MW-6_20110630	W	41	1	
1106114-003G	MW-9_20110630	W	4.7	1	

Reporting Limit for DF = 1; ND means not detected at or above the reporting limit	W	0.3 mg/L	
	S	NA	

* water samples are reported in mg/L. Settleable solids and floatable matter are excluded from analysis per E415.3. TOC is reported as NPOC.

TOC = Total Organic Carbon; NPOC = Non-Purgeable Organic Carbon; DOC = Dissolved Organic Carbon;
POC = Purgeable Organic Cabon; IC = Inorganic Carbon; TC = Total Carbon.

DF = Dilution Factor

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QC SUMMARY REPORT FOR E218.6

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 58814 WorkOrder 1106114

EPA Method E218.6	Extraction E218.6								Spiked Sample ID: 1106113-001g			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Hexachrome	ND	25	97.4	98.8	1.35	96.4	97	0.662	90 - 110	10	90 - 110	10

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

BATCH 58814 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1106114-001C	06/02/11 3:15 PM	06/03/11	06/03/11 1:48 PM	1106114-002C	06/02/11 1:15 PM	06/02/11	06/02/11 11:08 PM
1106114-003C	06/02/11 2:15 PM	06/02/11	06/02/11 11:26 PM				

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

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

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

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

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

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JR QA/QC Officer

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QC SUMMARY REPORT FOR E300.1

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 58777 WorkOrder 1106114

EPA Method E300.1 **Extraction E300.1** **Spiked Sample ID: N/A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/L	mg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Bromide	N/A	1	N/A	N/A	N/A	93	94.9	2.03	N/A	N/A	85 - 115	15
%SS:	N/A	0.10	N/A	N/A	N/A	101	98	3.42	N/A	N/A	90 - 115	10

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

BATCH 58777 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1106114-001D	06/02/11 3:15 PM	06/06/11	06/06/11 7:40 PM	1106114-002D	06/02/11 1:15 PM	06/03/11	06/03/11 2:57 PM
1106114-003D	06/02/11 2:15 PM	06/03/11	06/03/11 3:42 PM				

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

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

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

N/A = not applicable to this method.

surrogate diluted out of range or surrogate coelutes with another peak.

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

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QC SUMMARY REPORT FOR E300.1

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 58743 WorkOrder 1106114

EPA Method E300.1 **Extraction E300.1** **Spiked Sample ID: N/A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/L	mg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Bromate	N/A	0.040	N/A	N/A	N/A	95.1	94.9	0.200	N/A	N/A	85 - 115	10

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

BATCH 58743 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1106114-001E	06/02/11 3:15 PM	06/07/11	06/07/11 6:15 AM	1106114-002E	06/02/11 1:15 PM	06/04/11	06/04/11 11:23 AM
1106114-003E	06/02/11 2:15 PM	06/04/11	06/04/11 12:09 PM				

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

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

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

N/A = not applicable to this method.

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

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QC SUMMARY REPORT FOR WET CHEMISTRY TESTS

Test Method: SM2320B (Alkalinity) **Matrix: W** **WorkOrder: 1106114**

Method Name: SM2320B Units mg CaCO3/L BatchID: 58834

Lab ID	Sample	DF	Dup / Ser. Dil.	DF	% RPD	Acceptance Criteria (%)
1106114-001J	905	1	906	1	0.118	<20
1106114-002J	828	1	823	1	0.585	<20
1106114-003J	226	1	228	1	0.881	<20

BATCH 58834 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1106114-001J	06/02/11 3:15 PM	06/07/11	06/07/11 1:58 PM	1106114-002J	06/02/11 1:15 PM	06/07/11	06/07/11 2:14 PM
1106114-003J	06/02/11 2:15 PM	06/07/11	06/07/11 2:22 PM				

Dup = Duplicate; Ser. Dil. = Serial Dilution; MS = Matrix Spike; RPD = Relative Percent Deviation.

Precision = Absolute Value (Sample - Duplicate)

RPD = 100 * (Sample - Duplicate) / [(Sample + Duplicate) / 2]

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QC SUMMARY REPORT FOR E350.1

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 58763 WorkOrder 1106114

EPA Method E350.1 **Extraction E350.1** **Spiked Sample ID: 1106038-001A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/L	mg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Total Ammonia as N	ND	4	96.6	100	3.61	90.2	90.1	0.0721	80 - 120	20	90 - 110	20

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

BATCH 58763 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1106114-001B	06/02/11 3:15 PM	06/09/11	06/09/11 11:24 AM	1106114-002B	06/02/11 1:15 PM	06/09/11	06/09/11 11:28 AM
1106114-003B	06/02/11 2:15 PM	06/09/11	06/09/11 11:32 AM				

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

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

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

N/A = not applicable to this method.

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

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QC SUMMARY REPORT FOR E351.2

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 58815 WorkOrder 1106114

EPA Method E351.2 **Extraction E351.2** **Spiked Sample ID: 1106148-003C**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/L	mg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TKN as N	ND	12	94.8	96.5	1.78	99.9	98.4	1.54	80 - 120	20	90 - 110	20

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

BATCH 58815 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1106114-001B	06/02/11 3:15 PM	06/08/11	06/09/11 2:57 PM	1106114-002B	06/02/11 1:15 PM	06/08/11	06/09/11 3:01 PM
1106114-003B	06/02/11 2:15 PM	06/08/11	06/09/11 3:04 PM				

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

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

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

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

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

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QC SUMMARY REPORT FOR E415.3

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 58774 WorkOrder 1106114

EPA Method E415.3 **Extraction E415.3** **Spiked Sample ID: 1106058-001C**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/L	mg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
IC as CO2	1400	36.7	NR	NR	NR	102	101	0.493	70 - 130	20	80 - 120	20

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

BATCH 58774 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1106114-001F	06/02/11 3:15 PM	06/06/11	06/06/11 4:26 PM	1106114-002F	06/02/11 1:15 PM	06/06/11	06/06/11 4:32 PM
1106114-003F	06/02/11 2:15 PM	06/06/11	06/06/11 4:40 PM				

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

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

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

N/A = not applicable to this method.

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

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QC SUMMARY REPORT FOR E200.8

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 58664 WorkOrder 1106114

EPA Method E200.8 **Extraction E200.8** **Spiked Sample ID: 1105640-005A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Chromium	ND	10	95.7	98.1	2.52	96.6	95.6	1.08	70 - 130	20	85 - 115	20
%SS:	103	750	105	106	0.935	98	97	1.26	70 - 130	20	70 - 130	20

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

BATCH 58664 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1106114-002H	06/02/11 1:15 PM	06/02/11	06/06/11 1:56 PM	1106114-003H	06/02/11 2:15 PM	06/02/11	06/08/11 12:29 AM

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

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

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

N/A = not applicable to this method.

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

DHS ELAP Certification 1644

QA/QC Officer

McCampbell Analytical, Inc.
"When Quality Counts"

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

QC SUMMARY REPORT FOR E200.8

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 58784 WorkOrder 1106114

EPA Method E200.8 **Extraction E200.8** **Spiked Sample ID: 1105640-008A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Chromium	ND	10	92.8	98.5	5.93	93.5	102	8.19	70 - 130	20	85 - 115	20
%SS:	103	750	99	108	8.01	96	108	11.8	70 - 130	20	70 - 130	20

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

BATCH 58784 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1106114-001H	06/02/11 3:15 PM	06/02/11	06/06/11 1:49 PM				

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

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

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

N/A = not applicable to this method.

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

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QC SUMMARY REPORT FOR WET CHEMISTRY TESTS

Test Method: SM2520B (Salinity) **Matrix: W** **WorkOrder: 1106114**

Method Name: SM2520B Units mg/L BatchID: 58796

Lab ID	Sample	DF	Dup / Ser. Dil.	DF	% RPD	Acceptance Criteria (%)
1106114-001I	15600 @ 25.0°C	1	15600 @ 25.0°C	1	0.369	<2
1106114-002I	1500 @ 25.0°C	1	1500 @ 25.0°C	1	0.0855	<2
1106114-003I	405 @ 25.0°C	1	404 @ 25.0°C	1	0.206	<2

BATCH 58796 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1106114-001I	06/02/11 3:15 PM	06/06/11	06/06/11 2:10 PM	1106114-002I	06/02/11 1:15 PM	06/06/11	06/06/11 2:00 PM
1106114-003I	06/02/11 2:15 PM	06/06/11	06/06/11 2:20 PM				

Dup = Duplicate; Ser. Dil. = Serial Dilution; MS = Matrix Spike; RD = Relative Difference; RPD = Relative Percent Deviation.

Precision = Absolute Value (Sample - Duplicate)

RPD = 100 * (Sample - Duplicate) / [(Sample + Duplicate) / 2]

%RPD is calculated using results of up to 10 significant figures, however the reported results are rounded to 2 or 3 significant figures. Therefore there may be a slight discrepancy between the %RPD displayed above and %RPD calculated using the reported results. MAI considers %RPD based upon more significant figures to be more accurate.

DHS ELAP Certification 1644

QA/QC Officer

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"When Quality Counts"

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Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

QC SUMMARY REPORT FOR WET CHEMISTRY TESTS

Test Method: SM9223B (TC & E.Coli) **Matrix: W** **WorkOrder: 1106114**

Method Name: SM9223B BatchID: 58703

Lab ID	Analyte	Reporting Units	Sample	DF	Dup	DF	% RPD	Acceptance Criteria (%)
1106114-001A	E Coli	MPN/100ml	ND	1	ND	1	N/A	<70
	Total Coliform	MPN/100ml	210	1	190	1	12	<70
1106114-002A	E Coli	MPN/100ml	ND<100	100	ND<100	100	N/A	<70
	Total Coliform	MPN/100ml	42,000	100	46,000	100	10.3	<70
1106114-003A	E Coli	MPN/100ml	ND	1	ND	1	N/A	<70
	Total Coliform	MPN/100ml	2.0	1	2.0	1	0	<70

BATCH 58703 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1106114-001A	06/02/11 3:15 PM	06/02/11	06/04/11 10:03 AM	1106114-002A	06/02/11 1:15 PM	06/02/11	06/04/11 10:09 AM
1106114-003A	06/02/11 2:15 PM	06/02/11	06/04/11 10:15 AM				

% RPD = abs(Sample - Dup) / ((Sample + Dup) / 2) * 100

N/A = Not Applicable

NR = %RPD may fall outside of laboratory acceptance criteria due to sample inconsistency between two containers.

DHS ELAP Certification 1644

QA/QC Officer

McCampbell Analytical, Inc.
"When Quality Counts"

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

QC SUMMARY REPORT FOR E415.3

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 58797 WorkOrder 1106114

EPA Method E415.3 **Extraction E415.3** **Spiked Sample ID: 1106101-001C**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/L	mg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TOC	0.79	50	99	98.7	0.339	105	104	1.07	70 - 130	20	80 - 120	20

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

BATCH 58797 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1106114-001G	06/02/11 3:15 PM	06/06/11	06/06/11 8:07 PM	1106114-002G	06/02/11 1:15 PM	06/06/11	06/06/11 8:19 PM
1106114-003G	06/02/11 2:15 PM	06/06/11	06/06/11 8:31 PM				

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

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

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

N/A = not applicable to this method.

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

DHS ELAP Certification 1644

QA/QC Officer

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.

Cooler # ____ of ____

257959

2Q11 GW Event

PACE- SEATTLE

21789 L3&L4

Required Lab Information:		Required Project Information:				Required Invoice Information:			
Lab Name:	Pace-Seattle	Site ID #:	2705191	Task:	WG_Q_201106	Send Invoice to:	David Sowle		
Address:		AnteaGrp proj#				Address:	11050 White Rock Road, Suite 110		
940 S. Harney Street Seattle WA 98108		Site Address	449 Hegenberger			City/State	Rancho Cordova CA 95670	Phone #:	1-800-477-7411
Lab PM:	Regina Ste. Marie	City	Oakland	State	CA 94621	Reimbursement project?		Non-reimbursement project? Y	Mark one
Phone/Fax:	P: 206-957-2433 F: 206-767-5063	AG PM Name:	Dennis Dettloff			Send EDD to	copeltdata@intelligentehs.com		
Lab PM email	Regina.SteMarie@pacelabs.com	Phone/Fax:	P: 1-800-477-7411 F: 916-638-8385			CC Hardcopy report to			
Applicable Lab Quote #:		AG PM Email:	dennis.dettloff@anteagroup.com			CC Hardcopy report to			

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

Valid Matrix Codes: MATRIX — DRINKING WATER DW, GROUND WATER WG, WASTE WATER WW, FREE PRODUCT LF, SOIL SO, OIL, AIR, VAPOR, OTHER; WATER W, SURFACE WATER WS, WATER QC WQ, SLUDGE SL, SEDIMENT SE, OTHER, ANIMAL TISSUE

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

Preservatives: Unpreserved, H_2SO_4, HNO_3, HCl, NaOH, $Na_2S_2O_3$, Methanol, Other

Requested Analyses: 353.2 Nitrate; 300 Sulfate; 6010 Iron Total; 8015 TPHDiesel; 8260 GC/MS GRO; 8260 Btex Mtbe, TBA; 8260 Ethanol; 6010*; 7470 Mercury (Dissolved); 8260 Acetone

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	SAMPLE DATE	SAMPLE TIME	# OF CONTAINERS	FIELD FILTERED? (Y/N)	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	353.2 Nitrate	300 Sulfate	6010 Iron Total	8015 TPHDiesel	8260 GC/MS GRO	8260 Btex Mtbe, TBA	8260 Ethanol	6010*	7470 Mercury (Dissolved)	8260 Acetone	Comments/Lab Sample I.D.
1	MW-10_20110630	WG	G	6/2/11	1050	11	N	X	X	X	X					x	x	x	x	x	x	x				8015 TPHDiesel Silica Gel Treated
2	MW-11_20110630	WG	G	↓	1125	11	N	X	X	X	X					x	x	x	x	x	x	x				
3	MW-12_20110630	WG	G		1515	16	Y	X	X	X	X					x	x	x	x	x	x	x	x	x	x	
4	MW-12A_20110630	WG	G		0920	11	N	X	X	X	X					x	x	x	x	x	x	x				
5	MW-13_20110630	WG	G		1155	11	N	X	X	X	X					x	x	x	x	x	x	x				
6	MW-3_20110630	WG	G		1330	11	N	X	X	X						x	x	x	x	x	x	x				6010* ='s Antimony, Arsenic, Barium, Beryllium, Cadmium, Cobalt, Lead, Manganese, Molybdenum, Nickel, Selenium, Silver, Thallium, Vanadium, Zinc. Dissolved metals and should be field filtered, preserved bottles
7	MW-6_20110630	WG	G		1315	16	Y	X	X	X	X					x	x	x	x	x	x	x	x	x	x	
8	MW-7_20110630	WG	G		0900	19	N	X	X	X	X					x	x	x	x	x	x	x				
9	MW-8_20110630	WG	G		1115	11	N	X	X	X	X					x	x	x	x	x	x	x				
10	MW-9_20110630	WG	G		1415	16	Y	X	X	X	X					x	x	x	x	x	x	x	x	x	x	
11	MW-14_20110630	WG	G		1140	11	N	X	X	X						x	x	x	x	x	x	x				
12	MW-15_20110630	WG	G		1600	11	N	X	X	X	X					x	x	x	x	x	x	x				
13	MW-16_20110630	WG	G		1545	11	N	X	X	X	X					x	x	x	x	x	x	x				
14	MW-17_20110630	WG	G	↓	1310	11	N	X	X	X	X					x	x	x	x	x	x	x				

Additional Comments/Special Instructions:

*MW-14_20110630 - Reaction w/ HCL removed HCL from VOA's
*MW-3_20110630 - Reaction w/ HCL NO HCL in VOA's

Global ID: T0600101476

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Ben Paull / BTS	6/3/11	1830			
FED EX	060311	0900	Colette Weaver / PACE	060311	0900

Sample Receipt Conditions			
Temp in °C	Samples on Ice?	Sample intact?	Trip Blank?
1.8°c	Y/N	Y/N	Y/N
1.5°c	(Y)/N	(Y)/N	Y/(N)
1.4°c	Y/N	Y/N	Y/N
2.5°c	Y/N	Y/N	Y/N

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

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Ben Paull

SIGNATURE of SAMPLER: B Paull — DATE Signed: 6/2/11 — Time: 1830

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: 2 of 3
Cooler # ____ of ____

257959

2Q11 GW Event

PACE- SEATTLE

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_201100
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:	David Sowle
Address:	11050 White Rock Road, Suite 110
City/State	Rancho Cordova CA 95670
Phone #:	1-800-477-7411
Reimbursement project?	
Non-reimbursement project?	Y
Mark one	
Send EDD to	copehdata@intelligentchs.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)	

ITEM #	SAMPLE ID (A-Z, 0-9 / -) IDs MUST BE UNIQUE	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	SAMPLE DATE	SAMPLE TIME	# OF CONTAINERS	FIELD FILTERED (Y/N)	Preservatives	Requested Analyses	Comments/Lab Sample I.D.
1	MW-10_20110630	WG	G	6/2/11						
2	MW-11_20110630	WG	G							
3	MW-12_20110630	WG	G		1515	16	Y	X X X X	x x x x x x x x	Ferrous Iron = 0.6
4	MW-12A_20110630	WG	G							
5	MW-13_20110630	WG	G							
6	MW-3_20110630	WG	G							
7	MW-6_20110630	WG	G		1315	16	Y	X X X X	x x x x x x x x	Ferrous Iron = 1.8
8	MW-7_20110630	WG	G							
9	MW-8_20110630	WG	G							
10	MW-9_20110630	WG	G		1415	16	Y	X X X X	x x x x x x x x	Fe^{2+} = 0.2
11										
12										

Additional Comments/Special Instructions:

MW-9 Fe^{2+}: 0.2 mg/L

Global ID: T0600101476

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
[illegible] / BTS	6/2/11	1830			
FED EX	6/3/11	0900	Client / Inogen / PACE	6/3/11	0900

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

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Ben Powell
SIGNATURE of SAMPLER: [signature] DATE Signed: 6/2/11 Time: 1830

Sample Receipt Conditions			
	Temp in °C	Samples on Ice?	Sample Intact?	Trip Blank?
1.8c	Y/N	Y/N	Y/N
1.5c	(Y)N	(Y)N	Y(N)
1.4c	Y/N	Y/N	Y/N
2.5c	Y/N	Y/N	Y/N

Inogen

Sample Container Count

257959

CLIENT: Antea

COC PAGE 1 of 2

COC ID# _____

Sample Line Item	VG9H	AG1H	AG1U	BG1H	BP1U	BP2U	BP3U	BP2N	BP2S	WGFU	WGKU	AG2U	BP3N	VSG	Comments
1	6					1			1 <2			2	1 <2		
2	6					1			1 <2			2	1 <2		
3	6				1	1		1 <2	1 <2			2	1 <2	3	
4	6					1			1 <2			2	1 <2		
5	6					1			1 <2			2	1 <2		
6	6					1			1 <2			2	1 <2		
7	6				1	1		1 <2	1 <2			2	1 <2	3	
8	10					1			1 <2			6	1 <2		
9	6					1			1 <2			2	1 <2		
10	6				1	1		1 <2	1 <2			2	1 <2	3	
11	6					1			1 <2			2	1 <2		
12	6					1			1 <2			2	1 <2		Trip Blank? No

AG1H	1 liter HCL amber glass		BP2S	500mL H2SO4 plastic		JGFU	4oz unpreserved amber wide
AG1U	1liter unpreserved amber glass		BP2U	500mL unpreserved plastic		R	terra core kit
AG2S	500mL H2SO4 amber glass		BP2Z	500mL NaOH, Zn Ac		U	Summa Can
AG2U	500mL unpreserved amber glass		BP3C	250mL NaOH plastic		VG9H	40mL HCL clear vial
AG3S	250mL H2SO4 amber glass		BP3N	250mL HNO3 plastic		VG9T	40mL Na Thio. clear vial
BG1H	1 liter HCL clear glass		BP3S	250mL H2SO4 plastic		VG9U	40mL unpreserved clear vial
BG1U	1 liter unpreserved glass		BP3U	250mL unpreserved plastic		VG9W	40mL glass vial preweighted (EPA 5035)
BP1N	1 liter HNO3 plastic		DG9B	40mL Na Bisulfate amber vial		VSG	Headspace septa vial & HCL
BP1S	1 liter H2SO4 plastic		DG9H	40mL HCL amber voa vial		WGFU	4oz clear soil jar
BP1U	1 liter unpreserved plastic		DG9M	40mL MeOH clear vial		WGFX	4oz wide jar w/hexane wipe
BP1Z	1 liter NaOH, Zn, Ac		DG9T	40mL Na Thio amber vial		ZPLC	Ziploc Bag
BP2N	500mL HNO3 plastic		DG9U	40mL unpreserved amber vial			
BP2O	500mL NaOH plastic		WI	Wipe/Swab			

Sample Container Count

257959

CLIENT: Antea

COC PAGE 2 of 2

COC ID# _____

Sample Line Item	VG9H	AG1H	AG1U	BG1H	BP1U	BP2U	BP3U	BP2N	BP2S	WGFU	WGKU	AG2U	BP3N		Comments
1	6					1			1 ZZ			2	1 ZZ		
2	6					1			1 ZZ			2	1 ZZ		
3															
4															
5															
6															
7															
8															
9															
10															
11															
12															Trip Blank? No

AG1H	1 liter HCL amber glass		BP2S	500mL H2SO4 plastic		JGFU	4oz unpreserved amber wide
AG1U	1liter unpreserved amber glass		BP2U	500mL unpreserved plastic		R	terra core kit
AG2S	500mL H2SO4 amber glass		BP2Z	500mL NaOH, Zn Ac		U	Summa Can
AG2U	500mL unpreserved amber glass		BP3C	250mL NaOH plastic		VG9H	40mL HCL clear vial
AG3S	250mL H2SO4 amber glass		BP3N	250mL HNO3 plastic		VG9T	40mL Na Thio. clear vial
BG1H	1 liter HCL clear glass		BP3S	250mL H2SO4 plastic		VG9U	40mL unpreserved clear vial
BG1U	1 liter unpreserved glass		BP3U	250mL unpreserved plastic		VG9W	40mL glass vial preweighted (EPA 5035)
BP1N	1 liter HNO3 plastic		DG9B	40mL Na Bisulfate amber vial		VSG	Headspace septa vial & HCL
BP1S	1 liter H2SO4 plastic		DG9H	40mL HCL amber voa vial		WGFU	4oz clear soil jar
BP1U	1 liter unpreserved plastic		DG9M	40mL MeOH clear vial		WGFX	4oz wide jar w/hexane wipe
BP1Z	1 liter NaOH, Zn, Ac		DG9T	40mL Na Thio amber vial		ZPLC	Ziploc Bag
BP2N	500mL HNO3 plastic		DG9U	40mL unpreserved amber vial			
BP2O	500mL NaOH plastic		t	Wipe/Swab			

Sample Condition Upon Receipt

Pace Analytical

Client Name: Antea Project # 257959

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

Tracking #: 8753 5531 7524, 7535, 7546, 7557

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

Packing Material: ☑ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other _____ Temp. Blank Yes ✓ No ✓ one cooler had NO TB

Thermometer Used 132013 or 101731952 or 226099 Type of Ice: (Wet) Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature 1.8c, 1.5c, 1.4c, 2.5c Biological Tissue is Frozen: Yes No

Temp should be above freezing ≤ 6°C

Date and Initials of person examining contents: 060311 CW

Comments:

Chain of Custody Present:	☑Yes	☐No	☐N/A	1.
Chain of Custody Filled Out:	☑Yes	☐No	☐N/A	2.
Chain of Custody Relinquished:	☑Yes	☐No	☐N/A	3.
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☑Yes	☐No	☐N/A	5.
Short Hold Time Analysis (<72hr):	☑Yes	☐No	☐N/A	6. BOD, NO2 rsm
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. Per COC - HCL removed from MW-14 & MW-3 VOA vials. RSM
-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. added 2mL of HNO3 & H2SO4 to sample MW-14 060311 @ 1030
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes	☑No	☐N/A	
Exceptions: VOA, coliform, TOC, O&G				Initial when completed: CW Lot # of added preservative: HNO3 : 111010 H2SO4 : 107546
Samples checked for dechlorination:	☐Yes	☐No	☑N/A	15.
Headspace in VOA Vials (>6mm):	☐Yes	☑No	☐N/A	16.
Trip Blanks Present:	☐Yes	☑No	☐N/A	17.
Trip Blank Custody Seals Present	☐Yes	☐No	☑N/A	
Pace Trip Blank Lot # (if purchased):				

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution:

Per M. Ninokata @ Blaine Tech - Alkalinity container sent by accident to McCampbell analytical. McCampbell Contacted on 060311 - they will analyze Alkalinity. RSM

Project Manager Review: RSM Date: 06/03/11

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

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

Preservation Temperature
(if Known): 1.6 °C

Antea™Group Laboratory Data Validation Sheet

Project/Client: 76 Station No. 5191 / COP-ELT
Project #: I42705191
Date of Validation: 6-16-11 **Date of Analysis:** 5/24 to 5/31
Sample Date: 5/17 to 5/18 **Completed By:** ETW
Signature:

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

Analytical Lab Used and Report # (if any): PACE #: 257775

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:

#9 Matrix spike recovery exceeded QC limits on a few analytes. The Batch was accepted based on Laboratory control sample recovery (M1)
Surrogate recovery outside control limits due to matrix interferences. (S5)
Also DRO results for all samples did not match the pattern of the laboratory standard for diesel. (1n)

Pace Analytical Services, Inc.
940 South Harney
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June 06, 2011

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

RE: Project: 2705191
Pace Project No.: 257775

Dear Dennis Dettloff:
Enclosed are the analytical results for sample(s) received by the laboratory on May 20, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC 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 Ste. Marie

Regina SteMarie

regina.stemarie@pacelabs.com
Project Manager

Enclosures

cc: Tara Bosch, Antea USA
Jonathon Fillingame, Antea USA
Josh Mahoney, Antea USA
Tony Perini, Antea USA
Don Pinkerton, Antea USA
Doug Umland, Antea USA
Ed Weyrens, Antea USA

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CERTIFICATIONS

Project: 2705191
Pace Project No.: 257775

Washington Certification IDs
940 South Harney Street, Seattle, WA 98108
Alaska CS Certification #: UST-025
Alaska Drinking Water VOC Certification #: WA01230
Alaska Drinking Water Micro Certification #: WA01230
California Certification #: 01153CA
Florida/NELAP Certification #: E87617
Oregon Certification #: WA200007
Washington Certification #: C1229

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SAMPLE ANALYTE COUNT

Project: 2705191
Pace Project No.: 257775

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
257775001	MW-14d7	EPA 8015B	DMT	3	PASI-S
		EPA 8015B	DMT	3	PASI-S
		EPA 6010	BGA	1	PASI-S
		EPA 8260	LPM	16	PASI-S
		CA LUFT	LPM	2	PASI-S
257775002	MW-14d10	EPA 8015B	DMT	3	PASI-S
		EPA 8015B	DMT	3	PASI-S
		EPA 6010	BGA	1	PASI-S
		EPA 8260	CC, LPM	8	PASI-S
		EPA 8260	LPM	12	PASI-S
		CA LUFT	LPM	2	PASI-S
257775003	MW-14d13	EPA 8015B	DMT	3	PASI-S
		EPA 8015B	DMT	3	PASI-S
		EPA 6010	BGA	1	PASI-S
		EPA 8260	LPM	16	PASI-S
		CA LUFT	LPM	2	PASI-S
257775004	MW-15d8	EPA 8015B	DMT	3	PASI-S
		EPA 8015B	DMT	3	PASI-S
		EPA 6010	BGA	1	PASI-S
		EPA 8260	CC	5	PASI-S
		EPA 8260	LPM	15	PASI-S
		CA LUFT	LPM	2	PASI-S
257775005	MW-15d13	EPA 8015B	DMT	3	PASI-S
		EPA 8015B	DMT	3	PASI-S
		EPA 6010	BGA	1	PASI-S
		EPA 8260	LPM	16	PASI-S
		CA LUFT	LPM	2	PASI-S
257775006	MW-16d8	EPA 8015B	DMT	3	PASI-S
		EPA 8015B	DMT	3	PASI-S
		EPA 6010	BGA	1	PASI-S
		EPA 8260	LPM	16	PASI-S
		CA LUFT	LPM	2	PASI-S
257775007	MW-16d13	EPA 8015B	DMT	3	PASI-S
		EPA 8015B	DMT	3	PASI-S
		EPA 6010	BGA	1	PASI-S
		EPA 8260	LPM	16	PASI-S
		CA LUFT	LPM	2	PASI-S

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SAMPLE ANALYTE COUNT

Project: 2705191
Pace Project No.: 257775

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
257775008	MW-17d9	EPA 8015B	DMT	3	PASI-S
		EPA 8015B	DMT	3	PASI-S
		EPA 6010	BGA	1	PASI-S
		EPA 8260	CC, LPM	8	PASI-S
		EPA 8260	LPM	12	PASI-S
		CA LUFT	LPM	2	PASI-S
257775009	MW-17d13	EPA 8015B	DMT	3	PASI-S
		EPA 8015B	DMT	3	PASI-S
		EPA 6010	BGA	1	PASI-S
		EPA 8260	CC	8	PASI-S
		EPA 8260	LPM	12	PASI-S
		CA LUFT	LPM	2	PASI-S
257775010	B-6d9	EPA 8015B	DMT	3	PASI-S
		EPA 8015B	DMT	3	PASI-S
		EPA 6010	BGA	1	PASI-S
		EPA 8260	CC	8	PASI-S
		EPA 8260	LPM	12	PASI-S
		CA LUFT	CC	2	PASI-S
257775011	B-6d14	EPA 8015B	DMT	3	PASI-S
		EPA 8015B	DMT	3	PASI-S
		EPA 6010	BGA	1	PASI-S
		EPA 8260	CC	8	PASI-S
		EPA 8260	LPM	12	PASI-S
		CA LUFT	CC	2	PASI-S
257775012	B-6d21	EPA 8015B	DMT	3	PASI-S
		EPA 8015B	DMT	3	PASI-S
		EPA 6010	BGA	1	PASI-S
		EPA 8260	CC	6	PASI-S
		EPA 8260	LPM	14	PASI-S
		CA LUFT	LPM	2	PASI-S
257775013	B-6d26	EPA 8015B	DMT	3	PASI-S
		EPA 8015B	DMT	3	PASI-S
		EPA 6010	BGA	1	PASI-S
		EPA 8260	CC	8	PASI-S
		EPA 8260	LPM	12	PASI-S
		CA LUFT	CC	2	PASI-S

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HITS ONLY

Project: 2705191
Pace Project No.: 257775

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
257775001	**MW-14d7**					
EPA 6010	Lead	6.6	mg/kg	0.90	05/28/11 16:16	
257775002	**MW-14d10**					
EPA 8015B	TPH-DRO (C10-C24)	45.5	mg/kg	2.0	05/31/11 00:36	1n
EPA 8015B	TPH-DRO (C10-C24) SG	45.9	mg/kg	2.0	05/27/11 19:49	1n
EPA 6010	Lead	7.0	mg/kg	0.93	05/28/11 16:20	
EPA 8260	Benzene	1.8	mg/kg	0.024	05/28/11 05:54	
EPA 8260	Ethylbenzene	44.0	mg/kg	2.4	05/31/11 22:44	
EPA 8260	Toluene	0.20	mg/kg	0.049	05/28/11 05:54	
EPA 8260	Xylene (Total)	140	mg/kg	7.3	05/31/11 22:44	
CA LUFT	TPH-Gasoline (C05-C12)	1740	mg/kg	122	05/31/11 22:44	
257775003	**MW-14d13**					
EPA 6010	Lead	6.6	mg/kg	0.89	05/28/11 16:23	
EPA 8260	Ethylbenzene	0.037	mg/kg	0.0027	05/24/11 11:49	
EPA 8260	Xylene (Total)	0.066	mg/kg	0.0082	05/24/11 11:49	
CA LUFT	TPH-Gasoline (C05-C12)	1.0	mg/kg	0.22	05/26/11 17:13	
257775004	**MW-15d8**					
EPA 8015B	TPH-DRO (C10-C24)	6.2	mg/kg	2.0	05/30/11 21:25	1n
EPA 8015B	TPH-DRO (C10-C24) SG	5.2	mg/kg	2.0	05/27/11 20:22	1n
EPA 6010	Lead	7.0	mg/kg	3.6	05/28/11 16:43	
EPA 8260	Ethylbenzene	1.9	mg/kg	0.074	05/28/11 06:14	
EPA 8260	Benzene	0.023	mg/kg	0.0038	05/24/11 12:09	
EPA 8260	tert-Butyl Alcohol	0.16	mg/kg	0.019	05/24/11 12:09	
EPA 8260	Methyl-tert-butyl ether	0.19	mg/kg	0.0038	05/24/11 12:09	
EPA 8260	Xylene (Total)	0.25	mg/kg	0.011	05/24/11 12:09	
CA LUFT	TPH-Gasoline (C05-C12)	2.3	mg/kg	0.32	05/24/11 12:09	
257775005	**MW-15d13**					
EPA 6010	Lead	7.0	mg/kg	3.8	05/28/11 16:46	
EPA 8260	tert-Butyl Alcohol	0.022	mg/kg	0.014	05/24/11 12:29	
EPA 8260	Methyl-tert-butyl ether	0.015	mg/kg	0.0028	05/24/11 12:29	
257775006	**MW-16d8**					
EPA 6010	Lead	5.7	mg/kg	0.74	05/28/11 16:33	
EPA 8260	tert-Butyl Alcohol	0.014	mg/kg	0.014	05/24/11 12:49	
EPA 8260	Methyl-tert-butyl ether	0.15	mg/kg	0.0027	05/24/11 12:49	
257775007	**MW-16d13**					
EPA 6010	Lead	5.5	mg/kg	0.91	05/28/11 16:36	
257775008	**MW-17d9**					
EPA 8015B	TPH-DRO (C10-C24)	39.6	mg/kg	2.0	05/30/11 23:32	1n
EPA 8015B	TPH-DRO (C10-C24) SG	36.7	mg/kg	2.0	05/27/11 22:32	1n
EPA 6010	Lead	16.3	mg/kg	3.6	05/28/11 17:12	
EPA 8260	Benzene	6.0	mg/kg	0.024	05/28/11 06:34	
EPA 8260	Ethylbenzene	17.9	mg/kg	0.48	05/31/11 22:10	
EPA 8260	Toluene	14.1	mg/kg	0.048	05/28/11 06:34	
EPA 8260	Xylene (Total)	58.0	mg/kg	1.4	05/31/11 22:10	

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Project: 2705191
Pace Project No.: 257775

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
257775008	**MW-17d9**					
EPA 8260	tert-Butyl Alcohol	0.030	mg/kg	0.013	05/24/11 13:28	
CA LUFT	TPH-Gasoline (C05-C12)	633	mg/kg	23.8	05/31/11 22:10	
257775009	**MW-17d13**					
EPA 8015B	TPH-DRO (C10-C24)	2.9	mg/kg	1.9	05/30/11 23:48	1n
EPA 8015B	TPH-DRO (C10-C24) SG	2.5	mg/kg	1.9	05/27/11 22:48	1n
EPA 6010	Lead	6.4	mg/kg	0.80	05/28/11 16:55	
EPA 8260	Benzene	2.7	mg/kg	0.023	05/28/11 06:54	
EPA 8260	Ethylbenzene	1.4	mg/kg	0.045	05/28/11 06:54	
EPA 8260	Toluene	0.46	mg/kg	0.045	05/28/11 06:54	
EPA 8260	Xylene (Total)	2.8	mg/kg	0.14	05/28/11 06:54	
EPA 8260	tert-Butyl Alcohol	0.029	mg/kg	0.013	05/24/11 14:47	
CA LUFT	TPH-Gasoline (C05-C12)	5.4	mg/kg	0.22	05/24/11 14:47	
257775010	**B-6d9**					
EPA 8015B	TPH-DRO (C10-C24)	72.0	mg/kg	2.0	05/31/11 00:04	1n
EPA 8015B	TPH-DRO (C10-C24) SG	68.6	mg/kg	2.0	05/27/11 23:36	1n
EPA 6010	Lead	10.1	mg/kg	3.7	05/28/11 17:15	
EPA 8260	Benzene	26.4	mg/kg	0.29	05/28/11 08:58	
EPA 8260	Ethylbenzene	58.1	mg/kg	0.58	05/28/11 08:58	
EPA 8260	Toluene	73.9	mg/kg	0.58	05/28/11 08:58	
EPA 8260	Xylene (Total)	230	mg/kg	1.7	05/28/11 08:58	
CA LUFT	TPH-Gasoline (C05-C12)	2490	mg/kg	29.0	05/28/11 08:58	
257775011	**B-6d14**					
EPA 8015B	TPH-DRO (C10-C24)	258	mg/kg	2.0	05/31/11 00:20	1n
EPA 8015B	TPH-DRO (C10-C24) SG	250	mg/kg	2.0	05/27/11 23:04	1n
EPA 6010	Lead	9.2	mg/kg	0.75	05/28/11 17:02	
EPA 8260	Benzene	3.6	mg/kg	0.025	05/28/11 07:14	
EPA 8260	Ethylbenzene	5.1	mg/kg	0.050	05/28/11 07:14	
EPA 8260	Toluene	5.1	mg/kg	0.050	05/28/11 07:14	
EPA 8260	Xylene (Total)	22.0	mg/kg	0.15	05/28/11 07:14	
CA LUFT	TPH-Gasoline (C05-C12)	194	mg/kg	2.5	05/28/11 07:14	M1
257775012	**B-6d21**					
EPA 6010	Lead	6.8	mg/kg	0.87	05/28/11 17:05	
EPA 8260	Benzene	0.67	mg/kg	0.022	05/28/11 07:34	
EPA 8260	Toluene	0.86	mg/kg	0.045	05/28/11 07:34	
EPA 8260	tert-Butyl Alcohol	0.014	mg/kg	0.014	05/25/11 17:17	
EPA 8260	Ethylbenzene	0.25	mg/kg	0.0027	05/25/11 17:17	
EPA 8260	Methyl-tert-butyl ether	0.036	mg/kg	0.0027	05/25/11 17:17	
EPA 8260	Xylene (Total)	0.94	mg/kg	0.0082	05/25/11 17:17	
CA LUFT	TPH-Gasoline (C05-C12)	7.2	mg/kg	0.23	05/25/11 17:17	M1
257775013	**B-6d26**					
EPA 8015B	TPH-DRO (C10-C24)	3.4	mg/kg	1.9	05/31/11 01:08	1n
EPA 8015B	TPH-DRO (C10-C24) SG	2.9	mg/kg	1.9	05/28/11 00:41	1n
EPA 6010	Lead	6.6	mg/kg	0.88	05/28/11 17:09	
EPA 8260	Benzene	0.83	mg/kg	0.021	05/28/11 07:54	

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Project: 2705191
Pace Project No.: 257775

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
257775013	**B-6d26**					
EPA 8260	Ethylbenzene	0.46	mg/kg	0.042	05/28/11 07:54	
EPA 8260	Toluene	1.2	mg/kg	0.042	05/28/11 07:54	
EPA 8260	Xylene (Total)	1.7	mg/kg	0.13	05/28/11 07:54	
EPA 8260	tert-Butyl Alcohol	0.021	mg/kg	0.013	05/25/11 21:17	
EPA 8260	Methyl-tert-butyl ether	0.086	mg/kg	0.0026	05/25/11 21:17	
CA LUFT	TPH-Gasoline (C05-C12)	17.0	mg/kg	2.1	05/28/11 07:54	

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ANALYTICAL RESULTS

Project: 2705191
Pace Project No.: 257775

Sample: MW-14d7 **Lab ID: 257775001** Collected: 05/17/11 08:50 Received: 05/20/11 09:05 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B CA Diesel Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 3546							
TPH-DRO (C10-C24)	ND	mg/kg	2.0	1	05/26/11 12:50	05/30/11 20:37		
o-Terphenyl (S)	107	%	50-150	1	05/26/11 12:50	05/30/11 20:37	84-15-1	
n-Octacosane (S)	112	%	50-150	1	05/26/11 12:50	05/30/11 20:37	630-02-4	
8015B CA Diesel Range Org SG	Analytical Method: EPA 8015B Preparation Method: EPA 3546							
TPH-DRO (C10-C24) SG	ND	mg/kg	2.0	1	05/26/11 12:50	05/27/11 19:33		
o-Terphenyl (S) SG	120	%	50-150	1	05/26/11 12:50	05/27/11 19:33	84-15-1	
n-Octacosane (S) SG	127	%	50-150	1	05/26/11 12:50	05/27/11 19:33	630-02-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Lead	**6.6**	mg/kg	0.90	1	05/27/11 17:37	05/28/11 16:16	7439-92-1	
8260 MSV 5030	Analytical Method: EPA 8260							
tert-Amylmethyl ether	ND	mg/kg	0.0027	1		05/24/11 11:09	994-05-8	
Benzene	ND	mg/kg	0.0027	1		05/24/11 11:09	71-43-2	
tert-Butyl Alcohol	ND	mg/kg	0.014	1		05/24/11 11:09	75-65-0	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0027	1		05/24/11 11:09	106-93-4	
1,2-Dichloroethane	ND	mg/kg	0.0027	1		05/24/11 11:09	107-06-2	
Diisopropyl ether	ND	mg/kg	0.0027	1		05/24/11 11:09	108-20-3	
Ethanol	ND	mg/kg	0.36	1		05/24/11 11:09	64-17-5	
Ethylbenzene	ND	mg/kg	0.0027	1		05/24/11 11:09	100-41-4	
Ethyl-tert-butyl ether	ND	mg/kg	0.0027	1		05/24/11 11:09	637-92-3	
Methyl-tert-butyl ether	ND	mg/kg	0.0027	1		05/24/11 11:09	1634-04-4	
Toluene	ND	mg/kg	0.0027	1		05/24/11 11:09	108-88-3	
Xylene (Total)	ND	mg/kg	0.0081	1		05/24/11 11:09	1330-20-7	
Dibromofluoromethane (S)	115	%	80-136	1		05/24/11 11:09	1868-53-7	
Toluene-d8 (S)	97	%	80-120	1		05/24/11 11:09	2037-26-5	
4-Bromofluorobenzene (S)	99	%	72-122	1		05/24/11 11:09	460-00-4	
1,2-Dichloroethane-d4 (S)	120	%	80-143	1		05/24/11 11:09	17060-07-0	
CA LUFT MSV GRO	Analytical Method: CA LUFT							
TPH-Gasoline (C05-C12)	ND	mg/kg	0.23	1		05/24/11 11:09		
4-Bromofluorobenzene (S)	99	%	72-122	1		05/24/11 11:09	460-00-4	

Sample: MW-14d10 **Lab ID: 257775002** Collected: 05/17/11 09:00 Received: 05/20/11 09:05 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B CA Diesel Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 3546							
TPH-DRO (C10-C24)	**45.5**	mg/kg	2.0	1	05/26/11 12:50	05/31/11 00:36		1n
o-Terphenyl (S)	102	%	50-150	1	05/26/11 12:50	05/31/11 00:36	84-15-1	
n-Octacosane (S)	141	%	50-150	1	05/26/11 12:50	05/31/11 00:36	630-02-4	

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ANALYTICAL RESULTS

Project: 2705191
Pace Project No.: 257775

Sample: MW-14d10 **Lab ID: 257775002** Collected: 05/17/11 09:00 Received: 05/20/11 09:05 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B CA Diesel Range Org SG	Analytical Method: EPA 8015B Preparation Method: EPA 3546							
TPH-DRO (C10-C24) SG	**45.9**	mg/kg	2.0	1	05/26/11 12:50	05/27/11 19:49		1n
o-Terphenyl (S) SG	112	%	50-150	1	05/26/11 12:50	05/27/11 19:49	84-15-1	
n-Octacosane (S) SG	145	%	50-150	1	05/26/11 12:50	05/27/11 19:49	630-02-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Lead	**7.0**	mg/kg	0.93	1	05/27/11 17:37	05/28/11 16:20	7439-92-1	
8260 MSV 5030 Med Level VOA	Analytical Method: EPA 8260 Preparation Method: EPA 5030							
Benzene	**1.8**	mg/kg	0.024	1	05/27/11 12:38	05/28/11 05:54	71-43-2	
Ethylbenzene	**44.0**	mg/kg	2.4	50	05/27/11 12:38	05/31/11 22:44	100-41-4	
Toluene	**0.20**	mg/kg	0.049	1	05/27/11 12:38	05/28/11 05:54	108-88-3	
Xylene (Total)	**140**	mg/kg	7.3	50	05/27/11 12:38	05/31/11 22:44	1330-20-7	
Dibromofluoromethane (S)	87	%	81-114	1	05/27/11 12:38	05/28/11 05:54	1868-53-7	
Toluene-d8 (S)	114	%	84-121	1	05/27/11 12:38	05/28/11 05:54	2037-26-5	
4-Bromofluorobenzene (S)	103	%	78-127	1	05/27/11 12:38	05/28/11 05:54	460-00-4	
1,2-Dichloroethane-d4 (S)	88	%	76-115	1	05/27/11 12:38	05/28/11 05:54	17060-07-0	
8260 MSV 5030	Analytical Method: EPA 8260							
tert-Amylmethyl ether	ND	mg/kg	0.0026	1		05/24/11 11:29	994-05-8	
tert-Butyl Alcohol	ND	mg/kg	0.013	1		05/24/11 11:29	75-65-0	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0026	1		05/24/11 11:29	106-93-4	
1,2-Dichloroethane	ND	mg/kg	0.0026	1		05/24/11 11:29	107-06-2	
Diisopropyl ether	ND	mg/kg	0.0026	1		05/24/11 11:29	108-20-3	
Ethanol	ND	mg/kg	0.34	1		05/24/11 11:29	64-17-5	
Ethyl-tert-butyl ether	ND	mg/kg	0.0026	1		05/24/11 11:29	637-92-3	
Methyl-tert-butyl ether	ND	mg/kg	0.0026	1		05/24/11 11:29	1634-04-4	
Dibromofluoromethane (S)	106	%	80-136	1		05/24/11 11:29	1868-53-7	
Toluene-d8 (S)	197	%	80-120	1		05/24/11 11:29	2037-26-5	S5
4-Bromofluorobenzene (S)	151	%	72-122	1		05/24/11 11:29	460-00-4	S5
1,2-Dichloroethane-d4 (S)	254	%	80-143	1		05/24/11 11:29	17060-07-0	S5
CA LUFT MSV GRO Medium Soil	Analytical Method: CA LUFT Preparation Method: CA LUFT							
TPH-Gasoline (C05-C12)	**1740**	mg/kg	122	50	05/31/11 13:00	05/31/11 22:44		
4-Bromofluorobenzene (S)	97	%	72-122	50	05/31/11 13:00	05/31/11 22:44	460-00-4	

Sample: MW-14d13 **Lab ID: 257775003** Collected: 05/17/11 09:02 Received: 05/20/11 09:05 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B CA Diesel Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 3546							
TPH-DRO (C10-C24)	ND	mg/kg	2.0	1	05/26/11 12:50	05/30/11 21:09		
o-Terphenyl (S)	108	%	50-150	1	05/26/11 12:50	05/30/11 21:09	84-15-1	
n-Octacosane (S)	112	%	50-150	1	05/26/11 12:50	05/30/11 21:09	630-02-4	

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ANALYTICAL RESULTS

Project: 2705191
Pace Project No.: 257775

Sample: MW-14d13 **Lab ID: 257775003** Collected: 05/17/11 09:02 Received: 05/20/11 09:05 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B CA Diesel Range Org SG	Analytical Method: EPA 8015B Preparation Method: EPA 3546							
TPH-DRO (C10-C24) SG	ND	mg/kg	2.0	1	05/26/11 12:50	05/27/11 20:06		
o-Terphenyl (S) SG	111	%	50-150	1	05/26/11 12:50	05/27/11 20:06	84-15-1	
n-Octacosane (S) SG	120	%	50-150	1	05/26/11 12:50	05/27/11 20:06	630-02-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Lead	**6.6**	mg/kg	0.89	1	05/27/11 17:37	05/28/11 16:23	7439-92-1	
8260 MSV 5030	Analytical Method: EPA 8260							
tert-Amylmethyl ether	ND	mg/kg	0.0027	1		05/24/11 11:49	994-05-8	
Benzene	ND	mg/kg	0.0027	1		05/24/11 11:49	71-43-2	
tert-Butyl Alcohol	ND	mg/kg	0.014	1		05/24/11 11:49	75-65-0	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0027	1		05/24/11 11:49	106-93-4	
1,2-Dichloroethane	ND	mg/kg	0.0027	1		05/24/11 11:49	107-06-2	
Diisopropyl ether	ND	mg/kg	0.0027	1		05/24/11 11:49	108-20-3	
Ethanol	ND	mg/kg	0.36	1		05/24/11 11:49	64-17-5	
Ethylbenzene	**0.037**	mg/kg	0.0027	1		05/24/11 11:49	100-41-4	
Ethyl-tert-butyl ether	ND	mg/kg	0.0027	1		05/24/11 11:49	637-92-3	
Methyl-tert-butyl ether	ND	mg/kg	0.0027	1		05/24/11 11:49	1634-04-4	
Toluene	ND	mg/kg	0.0027	1		05/24/11 11:49	108-88-3	
Xylene (Total)	**0.066**	mg/kg	0.0082	1		05/24/11 11:49	1330-20-7	
Dibromofluoromethane (S)	119	%	80-136	1		05/24/11 11:49	1868-53-7	
Toluene-d8 (S)	99	%	80-120	1		05/24/11 11:49	2037-26-5	
4-Bromofluorobenzene (S)	105	%	72-122	1		05/24/11 11:49	460-00-4	
1,2-Dichloroethane-d4 (S)	136	%	80-143	1		05/24/11 11:49	17060-07-0	
CA LUFT MSV GRO	Analytical Method: CA LUFT							
TPH-Gasoline (C05-C12)	**1.0**	mg/kg	0.22	1		05/26/11 17:13		
4-Bromofluorobenzene (S)	113	%	72-122	1		05/26/11 17:13	460-00-4	

Sample: MW-15d8 **Lab ID: 257775004** Collected: 05/17/11 10:02 Received: 05/20/11 09:05 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B CA Diesel Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 3546							
TPH-DRO (C10-C24)	**6.2**	mg/kg	2.0	1	05/26/11 12:50	05/30/11 21:25		1n
o-Terphenyl (S)	110	%	50-150	1	05/26/11 12:50	05/30/11 21:25	84-15-1	
n-Octacosane (S)	113	%	50-150	1	05/26/11 12:50	05/30/11 21:25	630-02-4	
8015B CA Diesel Range Org SG	Analytical Method: EPA 8015B Preparation Method: EPA 3546							
TPH-DRO (C10-C24) SG	**5.2**	mg/kg	2.0	1	05/26/11 12:50	05/27/11 20:22		1n
o-Terphenyl (S) SG	115	%	50-150	1	05/26/11 12:50	05/27/11 20:22	84-15-1	
n-Octacosane (S) SG	122	%	50-150	1	05/26/11 12:50	05/27/11 20:22	630-02-4	

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ANALYTICAL RESULTS

Project: 2705191
Pace Project No.: 257775

Sample: MW-15d8 **Lab ID: 257775004** Collected: 05/17/11 10:02 Received: 05/20/11 09:05 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Lead	**7.0**	mg/kg	3.6	5	05/27/11 17:37	05/28/11 16:43	7439-92-1	
8260 MSV 5030 Med Level VOA	Analytical Method: EPA 8260 Preparation Method: EPA 5030							
Ethylbenzene	**1.9**	mg/kg	0.074	1	05/27/11 12:38	05/28/11 06:14	100-41-4	
Dibromofluoromethane (S)	87	%	81-114	1	05/27/11 12:38	05/28/11 06:14	1868-53-7	
Toluene-d8 (S)	104	%	84-121	1	05/27/11 12:38	05/28/11 06:14	2037-26-5	
4-Bromofluorobenzene (S)	105	%	78-127	1	05/27/11 12:38	05/28/11 06:14	460-00-4	
1,2-Dichloroethane-d4 (S)	88	%	76-115	1	05/27/11 12:38	05/28/11 06:14	17060-07-0	
8260 MSV 5030	Analytical Method: EPA 8260							
tert-Amylmethyl ether	ND	mg/kg	0.0038	1		05/24/11 12:09	994-05-8	
Benzene	**0.023**	mg/kg	0.0038	1		05/24/11 12:09	71-43-2	
tert-Butyl Alcohol	**0.16**	mg/kg	0.019	1		05/24/11 12:09	75-65-0	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0038	1		05/24/11 12:09	106-93-4	
1,2-Dichloroethane	ND	mg/kg	0.0038	1		05/24/11 12:09	107-06-2	
Diisopropyl ether	ND	mg/kg	0.0038	1		05/24/11 12:09	108-20-3	
Ethanol	ND	mg/kg	0.51	1		05/24/11 12:09	64-17-5	
Ethyl-tert-butyl ether	ND	mg/kg	0.0038	1		05/24/11 12:09	637-92-3	
Methyl-tert-butyl ether	**0.19**	mg/kg	0.0038	1		05/24/11 12:09	1634-04-4	
Toluene	ND	mg/kg	0.0038	1		05/24/11 12:09	108-88-3	
Xylene (Total)	**0.25**	mg/kg	0.011	1		05/24/11 12:09	1330-20-7	
Dibromofluoromethane (S)	113	%	80-136	1		05/24/11 12:09	1868-53-7	
Toluene-d8 (S)	106	%	80-120	1		05/24/11 12:09	2037-26-5	
4-Bromofluorobenzene (S)	121	%	72-122	1		05/24/11 12:09	460-00-4	
1,2-Dichloroethane-d4 (S)	120	%	80-143	1		05/24/11 12:09	17060-07-0	
CA LUFT MSV GRO	Analytical Method: CA LUFT							
TPH-Gasoline (C05-C12)	**2.3**	mg/kg	0.32	1		05/24/11 12:09		
4-Bromofluorobenzene (S)	121	%	72-122	1		05/24/11 12:09	460-00-4	

Sample: MW-15d13 **Lab ID: 257775005** Collected: 05/17/11 10:08 Received: 05/20/11 09:05 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B CA Diesel Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 3546							
TPH-DRO (C10-C24)	ND	mg/kg	1.9	1	05/26/11 12:50	05/30/11 21:41		
o-Terphenyl (S)	116	%	50-150	1	05/26/11 12:50	05/30/11 21:41	84-15-1	
n-Octacosane (S)	118	%	50-150	1	05/26/11 12:50	05/30/11 21:41	630-02-4	
8015B CA Diesel Range Org SG	Analytical Method: EPA 8015B Preparation Method: EPA 3546							
TPH-DRO (C10-C24) SG	ND	mg/kg	1.9	1	05/26/11 12:50	05/27/11 20:38		
o-Terphenyl (S) SG	117	%	50-150	1	05/26/11 12:50	05/27/11 20:38	84-15-1	
n-Octacosane (S) SG	124	%	50-150	1	05/26/11 12:50	05/27/11 20:38	630-02-4	

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ANALYTICAL RESULTS

Project: 2705191
Pace Project No.: 257775

Sample: MW-15d13 **Lab ID: 257775005** Collected: 05/17/11 10:08 Received: 05/20/11 09:05 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Lead	**7.0**	mg/kg	3.8	5	05/27/11 17:37	05/28/11 16:46	7439-92-1	
8260 MSV 5030	Analytical Method: EPA 8260							
tert-Amylmethyl ether	ND	mg/kg	0.0028	1		05/24/11 12:29	994-05-8	
Benzene	ND	mg/kg	0.0028	1		05/24/11 12:29	71-43-2	
tert-Butyl Alcohol	**0.022**	mg/kg	0.014	1		05/24/11 12:29	75-65-0	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0028	1		05/24/11 12:29	106-93-4	
1,2-Dichloroethane	ND	mg/kg	0.0028	1		05/24/11 12:29	107-06-2	
Diisopropyl ether	ND	mg/kg	0.0028	1		05/24/11 12:29	108-20-3	
Ethanol	ND	mg/kg	0.37	1		05/24/11 12:29	64-17-5	
Ethylbenzene	ND	mg/kg	0.0028	1		05/24/11 12:29	100-41-4	
Ethyl-tert-butyl ether	ND	mg/kg	0.0028	1		05/24/11 12:29	637-92-3	
Methyl-tert-butyl ether	**0.015**	mg/kg	0.0028	1		05/24/11 12:29	1634-04-4	
Toluene	ND	mg/kg	0.0028	1		05/24/11 12:29	108-88-3	
Xylene (Total)	ND	mg/kg	0.0083	1		05/24/11 12:29	1330-20-7	
Dibromofluoromethane (S)	107	%	80-136	1		05/24/11 12:29	1868-53-7	
Toluene-d8 (S)	103	%	80-120	1		05/24/11 12:29	2037-26-5	
4-Bromofluorobenzene (S)	104	%	72-122	1		05/24/11 12:29	460-00-4	
1,2-Dichloroethane-d4 (S)	120	%	80-143	1		05/24/11 12:29	17060-07-0	
CA LUFT MSV GRO	Analytical Method: CA LUFT							
TPH-Gasoline (C05-C12)	ND	mg/kg	0.23	1		05/24/11 12:29		
4-Bromofluorobenzene (S)	104	%	72-122	1		05/24/11 12:29	460-00-4	

Sample: MW-16d8 **Lab ID: 257775006** Collected: 05/17/11 11:08 Received: 05/20/11 09:05 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B CA Diesel Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 3546							
TPH-DRO (C10-C24)	ND	mg/kg	2.0	1	05/26/11 12:50	05/30/11 21:57		
o-Terphenyl (S)	111	%	50-150	1	05/26/11 12:50	05/30/11 21:57	84-15-1	
n-Octacosane (S)	114	%	50-150	1	05/26/11 12:50	05/30/11 21:57	630-02-4	
8015B CA Diesel Range Org SG	Analytical Method: EPA 8015B Preparation Method: EPA 3546							
TPH-DRO (C10-C24) SG	ND	mg/kg	2.0	1	05/26/11 12:50	05/27/11 21:27		
o-Terphenyl (S) SG	113	%	50-150	1	05/26/11 12:50	05/27/11 21:27	84-15-1	
n-Octacosane (S) SG	122	%	50-150	1	05/26/11 12:50	05/27/11 21:27	630-02-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Lead	**5.7**	mg/kg	0.74	1	05/27/11 17:37	05/28/11 16:33	7439-92-1	
8260 MSV 5030	Analytical Method: EPA 8260							
tert-Amylmethyl ether	ND	mg/kg	0.0027	1		05/24/11 12:49	994-05-8	

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ANALYTICAL RESULTS

Project: 2705191
Pace Project No.: 257775

Sample: MW-16d8 **Lab ID: 257775006** Collected: 05/17/11 11:08 Received: 05/20/11 09:05 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030	Analytical Method: EPA 8260							
Benzene	ND	mg/kg	0.0027	1		05/24/11 12:49	71-43-2	
tert-Butyl Alcohol	**0.014**	mg/kg	0.014	1		05/24/11 12:49	75-65-0	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0027	1		05/24/11 12:49	106-93-4	
1,2-Dichloroethane	ND	mg/kg	0.0027	1		05/24/11 12:49	107-06-2	
Diisopropyl ether	ND	mg/kg	0.0027	1		05/24/11 12:49	108-20-3	
Ethanol	ND	mg/kg	0.36	1		05/24/11 12:49	64-17-5	
Ethylbenzene	ND	mg/kg	0.0027	1		05/24/11 12:49	100-41-4	
Ethyl-tert-butyl ether	ND	mg/kg	0.0027	1		05/24/11 12:49	637-92-3	
Methyl-tert-butyl ether	**0.15**	mg/kg	0.0027	1		05/24/11 12:49	1634-04-4	
Toluene	ND	mg/kg	0.0027	1		05/24/11 12:49	108-88-3	
Xylene (Total)	ND	mg/kg	0.0081	1		05/24/11 12:49	1330-20-7	
Dibromofluoromethane (S)	104	%	80-136	1		05/24/11 12:49	1868-53-7	
Toluene-d8 (S)	100	%	80-120	1		05/24/11 12:49	2037-26-5	
4-Bromofluorobenzene (S)	110	%	72-122	1		05/24/11 12:49	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	80-143	1		05/24/11 12:49	17060-07-0	
CA LUFT MSV GRO	Analytical Method: CA LUFT							
TPH-Gasoline (C05-C12)	ND	mg/kg	0.23	1		05/24/11 12:49		
4-Bromofluorobenzene (S)	110	%	72-122	1		05/24/11 12:49	460-00-4	

Sample: MW-16d13 **Lab ID: 257775007** Collected: 05/17/11 11:12 Received: 05/20/11 09:05 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B CA Diesel Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 3546							
TPH-DRO (C10-C24)	ND	mg/kg	2.0	1	05/26/11 12:50	05/30/11 23:16		
o-Terphenyl (S)	67	%	50-150	1	05/26/11 12:50	05/30/11 23:16	84-15-1	
n-Octacosane (S)	66	%	50-150	1	05/26/11 12:50	05/30/11 23:16	630-02-4	
8015B CA Diesel Range Org SG	Analytical Method: EPA 8015B Preparation Method: EPA 3546							
TPH-DRO (C10-C24) SG	ND	mg/kg	2.0	1	05/26/11 12:50	05/27/11 22:15		
o-Terphenyl (S) SG	70	%	50-150	1	05/26/11 12:50	05/27/11 22:15	84-15-1	
n-Octacosane (S) SG	71	%	50-150	1	05/26/11 12:50	05/27/11 22:15	630-02-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Lead	**5.5**	mg/kg	0.91	1	05/27/11 17:37	05/28/11 16:36	7439-92-1	
8260 MSV 5030	Analytical Method: EPA 8260							
tert-Amylmethyl ether	ND	mg/kg	0.0028	1		05/24/11 13:08	994-05-8	
Benzene	ND	mg/kg	0.0028	1		05/24/11 13:08	71-43-2	
tert-Butyl Alcohol	ND	mg/kg	0.014	1		05/24/11 13:08	75-65-0	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0028	1		05/24/11 13:08	106-93-4	
1,2-Dichloroethane	ND	mg/kg	0.0028	1		05/24/11 13:08	107-06-2	

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ANALYTICAL RESULTS

Project: 2705191
Pace Project No.: 257775

Sample: MW-16d13 **Lab ID: 257775007** Collected: 05/17/11 11:12 Received: 05/20/11 09:05 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030	Analytical Method: EPA 8260							
Diisopropyl ether	ND	mg/kg	0.0028	1		05/24/11 13:08	108-20-3	
Ethanol	ND	mg/kg	0.37	1		05/24/11 13:08	64-17-5	
Ethylbenzene	ND	mg/kg	0.0028	1		05/24/11 13:08	100-41-4	
Ethyl-tert-butyl ether	ND	mg/kg	0.0028	1		05/24/11 13:08	637-92-3	
Methyl-tert-butyl ether	ND	mg/kg	0.0028	1		05/24/11 13:08	1634-04-4	
Toluene	ND	mg/kg	0.0028	1		05/24/11 13:08	108-88-3	
Xylene (Total)	ND	mg/kg	0.0084	1		05/24/11 13:08	1330-20-7	
Dibromofluoromethane (S)	111	%	80-136	1		05/24/11 13:08	1868-53-7	
Toluene-d8 (S)	96	%	80-120	1		05/24/11 13:08	2037-26-5	
4-Bromofluorobenzene (S)	100	%	72-122	1		05/24/11 13:08	460-00-4	
1,2-Dichloroethane-d4 (S)	125	%	80-143	1		05/24/11 13:08	17060-07-0	
CA LUFT MSV GRO	Analytical Method: CA LUFT							
TPH-Gasoline (C05-C12)	ND	mg/kg	0.23	1		05/24/11 13:08		
4-Bromofluorobenzene (S)	100	%	72-122	1		05/24/11 13:08	460-00-4	

Sample: MW-17d9 **Lab ID: 257775008** Collected: 05/18/11 08:13 Received: 05/20/11 09:05 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B CA Diesel Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 3546							
TPH-DRO (C10-C24)	**39.6**	mg/kg	2.0	1	05/26/11 12:50	05/30/11 23:32		1n
o-Terphenyl (S)	111	%	50-150	1	05/26/11 12:50	05/30/11 23:32	84-15-1	
n-Octacosane (S)	115	%	50-150	1	05/26/11 12:50	05/30/11 23:32	630-02-4	
8015B CA Diesel Range Org SG	Analytical Method: EPA 8015B Preparation Method: EPA 3546							
TPH-DRO (C10-C24) SG	**36.7**	mg/kg	2.0	1	05/26/11 12:50	05/27/11 22:32		1n
o-Terphenyl (S) SG	115	%	50-150	1	05/26/11 12:50	05/27/11 22:32	84-15-1	
n-Octacosane (S) SG	124	%	50-150	1	05/26/11 12:50	05/27/11 22:32	630-02-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Lead	**16.3**	mg/kg	3.6	5	05/27/11 17:37	05/28/11 17:12	7439-92-1	
8260 MSV 5030 Med Level VOA	Analytical Method: EPA 8260 Preparation Method: EPA 5030							
Benzene	**6.0**	mg/kg	0.024	1	05/27/11 12:38	05/28/11 06:34	71-43-2	
Ethylbenzene	**17.9**	mg/kg	0.48	10	05/27/11 12:38	05/31/11 22:10	100-41-4	
Toluene	**14.1**	mg/kg	0.048	1	05/27/11 12:38	05/28/11 06:34	108-88-3	
Xylene (Total)	**58.0**	mg/kg	1.4	10	05/27/11 12:38	05/31/11 22:10	1330-20-7	
Dibromofluoromethane (S)	91	%	81-114	1	05/27/11 12:38	05/28/11 06:34	1868-53-7	
Toluene-d8 (S)	106	%	84-121	1	05/27/11 12:38	05/28/11 06:34	2037-26-5	
4-Bromofluorobenzene (S)	101	%	78-127	1	05/27/11 12:38	05/28/11 06:34	460-00-4	
1,2-Dichloroethane-d4 (S)	88	%	76-115	1	05/27/11 12:38	05/28/11 06:34	17060-07-0	

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ANALYTICAL RESULTS

Project: 2705191
Pace Project No.: 257775

Sample: MW-17d9 **Lab ID: 257775008** Collected: 05/18/11 08:13 Received: 05/20/11 09:05 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030	Analytical Method: EPA 8260							
tert-Amylmethyl ether	ND	mg/kg	0.0026	1		05/24/11 13:28	994-05-8	
tert-Butyl Alcohol	**0.030**	mg/kg	0.013	1		05/24/11 13:28	75-65-0	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0026	1		05/24/11 13:28	106-93-4	
1,2-Dichloroethane	ND	mg/kg	0.0026	1		05/24/11 13:28	107-06-2	
Diisopropyl ether	ND	mg/kg	0.0026	1		05/24/11 13:28	108-20-3	
Ethanol	ND	mg/kg	0.35	1		05/24/11 13:28	64-17-5	
Ethyl-tert-butyl ether	ND	mg/kg	0.0026	1		05/24/11 13:28	637-92-3	
Methyl-tert-butyl ether	ND	mg/kg	0.0026	1		05/24/11 13:28	1634-04-4	
Dibromofluoromethane (S)	125	%	80-136	1		05/24/11 13:28	1868-53-7	
Toluene-d8 (S)	127	%	80-120	1		05/24/11 13:28	2037-26-5	S5
4-Bromofluorobenzene (S)	104	%	72-122	1		05/24/11 13:28	460-00-4	
1,2-Dichloroethane-d4 (S)	161	%	80-143	1		05/24/11 13:28	17060-07-0	S5
CA LUFT MSV GRO Medium Soil	Analytical Method: CA LUFT Preparation Method: CA LUFT							
TPH-Gasoline (C05-C12)	**633**	mg/kg	23.8	10	05/31/11 13:00	05/31/11 22:10		
4-Bromofluorobenzene (S)	96	%	72-122	10	05/31/11 13:00	05/31/11 22:10	460-00-4	

Sample: MW-17d13 **Lab ID: 257775009** Collected: 05/18/11 08:18 Received: 05/20/11 09:05 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B CA Diesel Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 3546							
TPH-DRO (C10-C24)	**2.9**	mg/kg	1.9	1	05/26/11 12:50	05/30/11 23:48		1n
o-Terphenyl (S)	113	%	50-150	1	05/26/11 12:50	05/30/11 23:48	84-15-1	
n-Octacosane (S)	116	%	50-150	1	05/26/11 12:50	05/30/11 23:48	630-02-4	
8015B CA Diesel Range Org SG	Analytical Method: EPA 8015B Preparation Method: EPA 3546							
TPH-DRO (C10-C24) SG	**2.5**	mg/kg	1.9	1	05/26/11 12:50	05/27/11 22:48		1n
o-Terphenyl (S) SG	123	%	50-150	1	05/26/11 12:50	05/27/11 22:48	84-15-1	
n-Octacosane (S) SG	131	%	50-150	1	05/26/11 12:50	05/27/11 22:48	630-02-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Lead	**6.4**	mg/kg	0.80	1	05/27/11 17:37	05/28/11 16:55	7439-92-1	
8260 MSV 5030 Med Level VOA	Analytical Method: EPA 8260 Preparation Method: EPA 5030							
Benzene	**2.7**	mg/kg	0.023	1	05/27/11 12:38	05/28/11 06:54	71-43-2	
Ethylbenzene	**1.4**	mg/kg	0.045	1	05/27/11 12:38	05/28/11 06:54	100-41-4	
Toluene	**0.46**	mg/kg	0.045	1	05/27/11 12:38	05/28/11 06:54	108-88-3	
Xylene (Total)	**2.8**	mg/kg	0.14	1	05/27/11 12:38	05/28/11 06:54	1330-20-7	
Dibromofluoromethane (S)	89	%	81-114	1	05/27/11 12:38	05/28/11 06:54	1868-53-7	
Toluene-d8 (S)	106	%	84-121	1	05/27/11 12:38	05/28/11 06:54	2037-26-5	
4-Bromofluorobenzene (S)	105	%	78-127	1	05/27/11 12:38	05/28/11 06:54	460-00-4	
1,2-Dichloroethane-d4 (S)	90	%	76-115	1	05/27/11 12:38	05/28/11 06:54	17060-07-0	

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ANALYTICAL RESULTS

Project: 2705191
Pace Project No.: 257775

Sample: MW-17d13 **Lab ID: 257775009** Collected: 05/18/11 08:18 Received: 05/20/11 09:05 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030	Analytical Method: EPA 8260							
tert-Amylmethyl ether	ND	mg/kg	0.0027	1		05/24/11 14:47	994-05-8	
tert-Butyl Alcohol	**0.029**	mg/kg	0.013	1		05/24/11 14:47	75-65-0	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0027	1		05/24/11 14:47	106-93-4	
1,2-Dichloroethane	ND	mg/kg	0.0027	1		05/24/11 14:47	107-06-2	
Diisopropyl ether	ND	mg/kg	0.0027	1		05/24/11 14:47	108-20-3	
Ethanol	ND	mg/kg	0.36	1		05/24/11 14:47	64-17-5	
Ethyl-tert-butyl ether	ND	mg/kg	0.0027	1		05/24/11 14:47	637-92-3	
Methyl-tert-butyl ether	ND	mg/kg	0.0027	1		05/24/11 14:47	1634-04-4	
Dibromofluoromethane (S)	111	%	80-136	1		05/24/11 14:47	1868-53-7	
Toluene-d8 (S)	99	%	80-120	1		05/24/11 14:47	2037-26-5	
4-Bromofluorobenzene (S)	100	%	72-122	1		05/24/11 14:47	460-00-4	
1,2-Dichloroethane-d4 (S)	127	%	80-143	1		05/24/11 14:47	17060-07-0	
CA LUFT MSV GRO	Analytical Method: CA LUFT							
TPH-Gasoline (C05-C12)	**5.4**	mg/kg	0.22	1		05/24/11 14:47		
4-Bromofluorobenzene (S)	**100**	%	72-122	1		05/24/11 14:47	460-00-4	

Sample: B-6d9 **Lab ID: 257775010** Collected: 05/18/11 09:38 Received: 05/20/11 09:05 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B CA Diesel Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 3546							
TPH-DRO (C10-C24)	**72.0**	mg/kg	2.0	1	05/26/11 12:50	05/31/11 00:04		1n
o-Terphenyl (S)	105	%	50-150	1	05/26/11 12:50	05/31/11 00:04	84-15-1	
n-Octacosane (S)	110	%	50-150	1	05/26/11 12:50	05/31/11 00:04	630-02-4	
8015B CA Diesel Range Org SG	Analytical Method: EPA 8015B Preparation Method: EPA 3546							
TPH-DRO (C10-C24) SG	**68.6**	mg/kg	2.0	1	05/26/11 12:50	05/27/11 23:36		1n
o-Terphenyl (S) SG	110	%	50-150	1	05/26/11 12:50	05/27/11 23:36	84-15-1	
n-Octacosane (S) SG	118	%	50-150	1	05/26/11 12:50	05/27/11 23:36	630-02-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Lead	**10.1**	mg/kg	3.7	5	05/27/11 17:37	05/28/11 17:15	7439-92-1	
8260 MSV 5030 Med Level VOA	Analytical Method: EPA 8260 Preparation Method: EPA 5030							
Benzene	**26.4**	mg/kg	0.29	10	05/27/11 12:38	05/28/11 08:58	71-43-2	
Ethylbenzene	**58.1**	mg/kg	0.58	10	05/27/11 12:38	05/28/11 08:58	100-41-4	
Toluene	**73.9**	mg/kg	0.58	10	05/27/11 12:38	05/28/11 08:58	108-88-3	
Xylene (Total)	**230**	mg/kg	1.7	10	05/27/11 12:38	05/28/11 08:58	1330-20-7	
Dibromofluoromethane (S)	91	%	81-114	10	05/27/11 12:38	05/28/11 08:58	1868-53-7	
Toluene-d8 (S)	105	%	84-121	10	05/27/11 12:38	05/28/11 08:58	2037-26-5	
4-Bromofluorobenzene (S)	103	%	78-127	10	05/27/11 12:38	05/28/11 08:58	460-00-4	
1,2-Dichloroethane-d4 (S)	91	%	76-115	10	05/27/11 12:38	05/28/11 08:58	17060-07-0	

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ANALYTICAL RESULTS

Project: 2705191
Pace Project No.: 257775

Sample: B-6d9 **Lab ID: 257775010** Collected: 05/18/11 09:38 Received: 05/20/11 09:05 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030	Analytical Method: EPA 8260							
tert-Amylmethyl ether	ND	mg/kg	0.0031	1		05/24/11 15:07	994-05-8	
tert-Butyl Alcohol	ND	mg/kg	0.015	1		05/24/11 15:07	75-65-0	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0031	1		05/24/11 15:07	106-93-4	
1,2-Dichloroethane	ND	mg/kg	0.0031	1		05/24/11 15:07	107-06-2	
Diisopropyl ether	ND	mg/kg	0.0031	1		05/24/11 15:07	108-20-3	
Ethanol	ND	mg/kg	0.41	1		05/24/11 15:07	64-17-5	
Ethyl-tert-butyl ether	ND	mg/kg	0.0031	1		05/24/11 15:07	637-92-3	
Methyl-tert-butyl ether	ND	mg/kg	0.0031	1		05/24/11 15:07	1634-04-4	
Dibromofluoromethane (S)	84	%	80-136	1		05/24/11 15:07	1868-53-7	
Toluene-d8 (S)	306	%	80-120	1		05/24/11 15:07	2037-26-5	S5
4-Bromofluorobenzene (S)	227	%	72-122	1		05/24/11 15:07	460-00-4	S5
1,2-Dichloroethane-d4 (S)	3700	%	80-143	1		05/24/11 15:07	17060-07-0	S5
CA LUFT MSV GRO Medium Soil	Analytical Method: CA LUFT Preparation Method: CA LUFT							
TPH-Gasoline (C05-C12)	**2490**	mg/kg	29.0	10	05/27/11 12:04	05/28/11 08:58		
4-Bromofluorobenzene (S)	106	%	72-122	10	05/27/11 12:04	05/28/11 08:58	460-00-4	

Sample: B-6d14 **Lab ID: 257775011** Collected: 05/18/11 09:48 Received: 05/20/11 09:05 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B CA Diesel Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 3546							
TPH-DRO (C10-C24)	**258**	mg/kg	2.0	1	05/26/11 12:50	05/31/11 00:20		1n
o-Terphenyl (S)	**111**	%	50-150	1	05/26/11 12:50	05/31/11 00:20	84-15-1	
n-Octacosane (S)	118	%	50-150	1	05/26/11 12:50	05/31/11 00:20	630-02-4	
8015B CA Diesel Range Org SG	Analytical Method: EPA 8015B Preparation Method: EPA 3546							
TPH-DRO (C10-C24) SG	**250**	mg/kg	2.0	1	05/26/11 12:50	05/27/11 23:04		1n
o-Terphenyl (S) SG	115	%	50-150	1	05/26/11 12:50	05/27/11 23:04	84-15-1	
n-Octacosane (S) SG	124	%	50-150	1	05/26/11 12:50	05/27/11 23:04	630-02-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Lead	**9.2**	mg/kg	0.75	1	05/27/11 17:37	05/28/11 17:02	7439-92-1	
8260 MSV 5030 Med Level VOA	Analytical Method: EPA 8260 Preparation Method: EPA 5030							
Benzene	**3.6**	mg/kg	0.025	1	05/27/11 12:38	05/28/11 07:14	71-43-2	
Ethylbenzene	**5.1**	mg/kg	0.050	1	05/27/11 12:38	05/28/11 07:14	100-41-4	
Toluene	**5.1**	mg/kg	0.050	1	05/27/11 12:38	05/28/11 07:14	108-88-3	
Xylene (Total)	**22.0**	mg/kg	0.15	1	05/27/11 12:38	05/28/11 07:14	1330-20-7	
Dibromofluoromethane (S)	90	%	81-114	1	05/27/11 12:38	05/28/11 07:14	1868-53-7	
Toluene-d8 (S)	109	%	84-121	1	05/27/11 12:38	05/28/11 07:14	2037-26-5	
4-Bromofluorobenzene (S)	105	%	78-127	1	05/27/11 12:38	05/28/11 07:14	460-00-4	
1,2-Dichloroethane-d4 (S)	91	%	76-115	1	05/27/11 12:38	05/28/11 07:14	17060-07-0	

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ANALYTICAL RESULTS

Project: 2705191
Pace Project No.: 257775

Sample: B-6d14 **Lab ID: 257775011** Collected: 05/18/11 09:48 Received: 05/20/11 09:05 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030	Analytical Method: EPA 8260							
tert-Amylmethyl ether	ND	mg/kg	0.0025	1		05/25/11 20:59	994-05-8	
tert-Butyl Alcohol	ND	mg/kg	0.013	1		05/25/11 20:59	75-65-0	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0025	1		05/25/11 20:59	106-93-4	
1,2-Dichloroethane	ND	mg/kg	0.0025	1		05/25/11 20:59	107-06-2	
Diisopropyl ether	ND	mg/kg	0.0025	1		05/25/11 20:59	108-20-3	
Ethanol	ND	mg/kg	0.33	1		05/25/11 20:59	64-17-5	
Ethyl-tert-butyl ether	ND	mg/kg	0.0025	1		05/25/11 20:59	637-92-3	
Methyl-tert-butyl ether	ND	mg/kg	0.0025	1		05/25/11 20:59	1634-04-4	
Dibromofluoromethane (S)	71	%	80-136	1		05/25/11 20:59	1868-53-7	S5
Toluene-d8 (S)	100	%	80-120	1		05/25/11 20:59	2037-26-5	
4-Bromofluorobenzene (S)	95	%	72-122	1		05/25/11 20:59	460-00-4	
1,2-Dichloroethane-d4 (S)	89	%	80-143	1		05/25/11 20:59	17060-07-0	
CA LUFT MSV GRO Medium Soil	Analytical Method: CA LUFT Preparation Method: CA LUFT							
TPH-Gasoline (C05-C12)	**194**	mg/kg	2.5	1	05/27/11 12:04	05/28/11 07:14		M1
4-Bromofluorobenzene (S)	105	%	72-122	1	05/27/11 12:04	05/28/11 07:14	460-00-4	

Sample: B-6d21 **Lab ID: 257775012** Collected: 05/18/11 09:55 Received: 05/20/11 09:05 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B CA Diesel Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 3546							
TPH-DRO (C10-C24)	ND	mg/kg	2.0	1	05/26/11 12:50	05/31/11 00:52		
o-Terphenyl (S)	99	%	50-150	1	05/26/11 12:50	05/31/11 00:52	84-15-1	
n-Octacosane (S)	102	%	50-150	1	05/26/11 12:50	05/31/11 00:52	630-02-4	
8015B CA Diesel Range Org SG	Analytical Method: EPA 8015B Preparation Method: EPA 3546							
TPH-DRO (C10-C24) SG	ND	mg/kg	2.0	1	05/26/11 12:50	05/28/11 00:25		
o-Terphenyl (S) SG	105	%	50-150	1	05/26/11 12:50	05/28/11 00:25	84-15-1	
n-Octacosane (S) SG	114	%	50-150	1	05/26/11 12:50	05/28/11 00:25	630-02-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Lead	**6.8**	mg/kg	0.87	1	05/27/11 17:37	05/28/11 17:05	7439-92-1	
8260 MSV 5030 Med Level VOA	Analytical Method: EPA 8260 Preparation Method: EPA 5030							
Benzene	**0.67**	mg/kg	0.022	1	05/27/11 12:38	05/28/11 07:34	71-43-2	
Toluene	**0.86**	mg/kg	0.045	1	05/27/11 12:38	05/28/11 07:34	108-88-3	
Dibromofluoromethane (S)	88	%	81-114	1	05/27/11 12:38	05/28/11 07:34	1868-53-7	
Toluene-d8 (S)	105	%	84-121	1	05/27/11 12:38	05/28/11 07:34	2037-26-5	
4-Bromofluorobenzene (S)	105	%	78-127	1	05/27/11 12:38	05/28/11 07:34	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%	76-115	1	05/27/11 12:38	05/28/11 07:34	17060-07-0	

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ANALYTICAL RESULTS

Project: 2705191
Pace Project No.: 257775

Sample: B-6d21 **Lab ID: 257775012** Collected: 05/18/11 09:55 Received: 05/20/11 09:05 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030	Analytical Method: EPA 8260							
tert-Amylmethyl ether	ND	mg/kg	0.0027	1		05/25/11 17:17	994-05-8	
tert-Butyl Alcohol	**0.014**	mg/kg	0.014	1		05/25/11 17:17	75-65-0	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0027	1		05/25/11 17:17	106-93-4	
1,2-Dichloroethane	ND	mg/kg	0.0027	1		05/25/11 17:17	107-06-2	
Diisopropyl ether	ND	mg/kg	0.0027	1		05/25/11 17:17	108-20-3	
Ethanol	ND	mg/kg	0.37	1		05/25/11 17:17	64-17-5	
Ethylbenzene	**0.25**	mg/kg	0.0027	1		05/25/11 17:17	100-41-4	
Ethyl-tert-butyl ether	ND	mg/kg	0.0027	1		05/25/11 17:17	637-92-3	
Methyl-tert-butyl ether	**0.036**	mg/kg	0.0027	1		05/25/11 17:17	1634-04-4	
Xylene (Total)	**0.94**	mg/kg	0.0082	1		05/25/11 17:17	1330-20-7	
Dibromofluoromethane (S)	97	%	80-136	1		05/25/11 17:17	1868-53-7	
Toluene-d8 (S)	96	%	80-120	1		05/25/11 17:17	2037-26-5	
4-Bromofluorobenzene (S)	100	%	72-122	1		05/25/11 17:17	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	80-143	1		05/25/11 17:17	17060-07-0	
CA LUFT MSV GRO	Analytical Method: CA LUFT							
TPH-Gasoline (C05-C12)	**7.2**	mg/kg	0.23	1		05/25/11 17:17		M1
4-Bromofluorobenzene (S)	100	%	72-122	1		05/25/11 17:17	460-00-4	

Sample: B-6d26 **Lab ID: 257775013** Collected: 05/18/11 10:03 Received: 05/20/11 09:05 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B CA Diesel Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 3546							
TPH-DRO (C10-C24)	**3.4**	mg/kg	1.9	1	05/26/11 12:50	05/31/11 01:08		1n
o-Terphenyl (S)	103	%	50-150	1	05/26/11 12:50	05/31/11 01:08	84-15-1	
n-Octacosane (S)	106	%	50-150	1	05/26/11 12:50	05/31/11 01:08	630-02-4	
8015B CA Diesel Range Org SG	Analytical Method: EPA 8015B Preparation Method: EPA 3546							
TPH-DRO (C10-C24) SG	**2.9**	mg/kg	1.9	1	05/26/11 12:50	05/28/11 00:41		1n
o-Terphenyl (S) SG	106	%	50-150	1	05/26/11 12:50	05/28/11 00:41	84-15-1	
n-Octacosane (S) SG	113	%	50-150	1	05/26/11 12:50	05/28/11 00:41	630-02-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Lead	**6.6**	mg/kg	0.88	1	05/27/11 17:37	05/28/11 17:09	7439-92-1	
8260 MSV 5030 Med Level VOA	Analytical Method: EPA 8260 Preparation Method: EPA 5030							
Benzene	**0.83**	mg/kg	0.021	1	05/27/11 12:38	05/28/11 07:54	71-43-2	
Ethylbenzene	**0.46**	mg/kg	0.042	1	05/27/11 12:38	05/28/11 07:54	100-41-4	
Toluene	**1.2**	mg/kg	0.042	1	05/27/11 12:38	05/28/11 07:54	108-88-3	
Xylene (Total)	**1.7**	mg/kg	0.13	1	05/27/11 12:38	05/28/11 07:54	1330-20-7	
Dibromofluoromethane (S)	88	%	81-114	1	05/27/11 12:38	05/28/11 07:54	1868-53-7	
Toluene-d8 (S)	104	%	84-121	1	05/27/11 12:38	05/28/11 07:54	2037-26-5	

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ANALYTICAL RESULTS

Project: 2705191
Pace Project No.: 257775

Sample: B-6d26 **Lab ID: 257775013** Collected: 05/18/11 10:03 Received: 05/20/11 09:05 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Med Level VOA	Analytical Method: EPA 8260 Preparation Method: EPA 5030							
4-Bromofluorobenzene (S)	101	%	78-127	1	05/27/11 12:38	05/28/11 07:54	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	76-115	1	05/27/11 12:38	05/28/11 07:54	17060-07-0	
8260 MSV 5030	Analytical Method: EPA 8260							
tert-Amylmethyl ether	ND	mg/kg	0.0026	1		05/25/11 21:17	994-05-8	
tert-Butyl Alcohol	**0.021**	mg/kg	0.013	1		05/25/11 21:17	75-65-0	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0026	1		05/25/11 21:17	106-93-4	
1,2-Dichloroethane	ND	mg/kg	0.0026	1		05/25/11 21:17	107-06-2	
Diisopropyl ether	ND	mg/kg	0.0026	1		05/25/11 21:17	108-20-3	
Ethanol	ND	mg/kg	0.34	1		05/25/11 21:17	64-17-5	
Ethyl-tert-butyl ether	ND	mg/kg	0.0026	1		05/25/11 21:17	637-92-3	
Methyl-tert-butyl ether	**0.086**	mg/kg	0.0026	1		05/25/11 21:17	1634-04-4	
Dibromofluoromethane (S)	99	%	80-136	1		05/25/11 21:17	1868-53-7	
Toluene-d8 (S)	95	%	80-120	1		05/25/11 21:17	2037-26-5	
4-Bromofluorobenzene (S)	100	%	72-122	1		05/25/11 21:17	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	80-143	1		05/25/11 21:17	17060-07-0	
CA LUFT MSV GRO Medium Soil	Analytical Method: CA LUFT Preparation Method: CA LUFT							
TPH-Gasoline (C05-C12)	**17.0**	mg/kg	2.1	1	05/27/11 12:04	05/28/11 07:54		
4-Bromofluorobenzene (S)	101	%	72-122	1	05/27/11 12:04	05/28/11 07:54	460-00-4	

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QUALITY CONTROL DATA

Project: 2705191
Pace Project No.: 257775

QC Batch: OEXT/3769 Analysis Method: EPA 8015B
QC Batch Method: EPA 3546 Analysis Description: EPA 8015B CA TPH
Associated Lab Samples: 257775001, 257775002, 257775003, 257775004, 257775005, 257775006, 257775007, 257775008, 257775009, 257775010, 257775011, 257775012, 257775013

METHOD BLANK: 72011 Matrix: Solid
Associated Lab Samples: 257775001, 257775002, 257775003, 257775004, 257775005, 257775006, 257775007, 257775008, 257775009, 257775010, 257775011, 257775012, 257775013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-DRO (C10-C24)	mg/kg	ND	2.0	05/30/11 20:05	
n-Octacosane (S)	%	105	50-150	05/30/11 20:05	
o-Terphenyl (S)	%	105	50-150	05/30/11 20:05	

LABORATORY CONTROL SAMPLE: 72012

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-DRO (C10-C24)	mg/kg	83.3	81.8	98	56-124	
n-Octacosane (S)	%			115	50-150	
o-Terphenyl (S)	%			109	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 72013 72014

Parameter	Units	257775006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
TPH-DRO (C10-C24)	mg/kg	ND	82.8	82.4	77.8	79.1	93	95	56-124	2	
n-Octacosane (S)	%						115	120	50-150		
o-Terphenyl (S)	%						109	111	50-150		

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QUALITY CONTROL DATA

Project: 2705191
Pace Project No.: 257775

QC Batch: OEXT/3770 Analysis Method: EPA 8015B
QC Batch Method: EPA 3546 Analysis Description: EPA 8015B CA TPH Silca Gel
Associated Lab Samples: 257775001, 257775002, 257775003, 257775004, 257775005, 257775006, 257775007, 257775008, 257775009, 257775010, 257775011, 257775012, 257775013

METHOD BLANK: 72015 Matrix: Solid
Associated Lab Samples: 257775001, 257775002, 257775003, 257775004, 257775005, 257775006, 257775007, 257775008, 257775009, 257775010, 257775011, 257775012, 257775013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-DRO (C10-C24) SG	mg/kg	ND	2.0	05/27/11 19:01	
n-Octacosane (S) SG	%	122	50-150	05/27/11 19:01	
o-Terphenyl (S) SG	%	111	50-150	05/27/11 19:01	

LABORATORY CONTROL SAMPLE: 72016

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-DRO (C10-C24) SG	mg/kg	83.3	87.9	105	56-124	
n-Octacosane (S) SG	%			125	50-150	
o-Terphenyl (S) SG	%			111	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 72017 72018

Parameter	Units	257775006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
TPH-DRO (C10-C24) SG	mg/kg	ND	82.8	82.4	82.7	82.4	100	100	56-124	.4	
n-Octacosane (S) SG	%						127	123	50-150		
o-Terphenyl (S) SG	%						112	112	50-150		

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QUALITY CONTROL DATA

Project: 2705191
Pace Project No.: 257775

QC Batch: MPRP/2238 Analysis Method: EPA 6010
QC Batch Method: EPA 3050 Analysis Description: 6010 MET
Associated Lab Samples: 257775001, 257775002, 257775003, 257775004, 257775005, 257775006, 257775007, 257775008, 257775009, 257775010, 257775011, 257775012, 257775013

METHOD BLANK: 71810 Matrix: Solid
Associated Lab Samples: 257775001, 257775002, 257775003, 257775004, 257775005, 257775006, 257775007, 257775008, 257775009, 257775010, 257775011, 257775012, 257775013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	mg/kg	ND	1.0	05/28/11 14:59	

LABORATORY CONTROL SAMPLE: 71811

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	mg/kg	25	25.2	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 71812 71813

Parameter	Units	257786005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Lead	mg/kg	6.7	19.8	20.5	25.3	25.5	94	92	75-125	.8	

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QUALITY CONTROL DATA

Project: 2705191
Pace Project No.: 257775

QC Batch: MSV/4563 Analysis Method: EPA 8260
QC Batch Method: EPA 5030 Analysis Description: 8260 MSV 5030 Medium Soil
Associated Lab Samples: 257775002, 257775004, 257775008, 257775009, 257775010, 257775011, 257775012, 257775013

METHOD BLANK: 72204 Matrix: Solid
Associated Lab Samples: 257775002, 257775004, 257775008, 257775009, 257775010, 257775011, 257775012, 257775013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	mg/kg	ND	0.025	05/28/11 05:14	
Ethylbenzene	mg/kg	ND	0.050	05/28/11 05:14	
Toluene	mg/kg	ND	0.050	05/28/11 05:14	
Xylene (Total)	mg/kg	ND	0.15	05/28/11 05:14	
1,2-Dichloroethane-d4 (S)	%	93	76-115	05/28/11 05:14	
4-Bromofluorobenzene (S)	%	103	78-127	05/28/11 05:14	
Dibromofluoromethane (S)	%	89	81-114	05/28/11 05:14	
Toluene-d8 (S)	%	104	84-121	05/28/11 05:14	

LABORATORY CONTROL SAMPLE: 72205

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	mg/kg	1	0.84	84	78-123	
Ethylbenzene	mg/kg	1	0.92	92	74-120	
Toluene	mg/kg	1	0.91	91	70-121	
Xylene (Total)	mg/kg	3	2.7	90	76-120	
1,2-Dichloroethane-d4 (S)	%			94	76-115	
4-Bromofluorobenzene (S)	%			104	78-127	
Dibromofluoromethane (S)	%			94	81-114	
Toluene-d8 (S)	%			105	84-121	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 72531 72532

Parameter	Units	257775004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Benzene	mg/kg	ND	1.5	1.5	1.3	1.5	88	98	79-127	11	
Ethylbenzene	mg/kg	1.9	1.5	1.5	3.2	3.5	94	111	77-126	7	
Toluene	mg/kg	ND	1.5	1.5	1.4	1.5	93	103	77-124	10	
Xylene (Total)	mg/kg	782 ug/kg	4.4	4.4	4.6	5.0	87	96	77-127	9	
1,2-Dichloroethane-d4 (S)	%						93	95	76-115		
4-Bromofluorobenzene (S)	%						102	103	78-127		
Dibromofluoromethane (S)	%						94	96	81-114		
Toluene-d8 (S)	%						105	105	84-121		

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QUALITY CONTROL DATA

Project: 2705191
Pace Project No.: 257775

QC Batch: MSV/4516 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5030 Volatile Organics
Associated Lab Samples: 257775001, 257775002, 257775003, 257775004, 257775005, 257775006, 257775007, 257775008, 257775009, 257775010

METHOD BLANK: 71526 Matrix: Solid
Associated Lab Samples: 257775001, 257775002, 257775003, 257775004, 257775005, 257775006, 257775007, 257775008, 257775009, 257775010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	mg/kg	ND	0.0030	05/24/11 10:31	
1,2-Dichloroethane	mg/kg	ND	0.0030	05/24/11 10:31	
Benzene	mg/kg	ND	0.0030	05/24/11 10:31	
Diisopropyl ether	mg/kg	ND	0.0030	05/24/11 10:31	
Ethanol	mg/kg	ND	0.40	05/24/11 10:31	
Ethyl-tert-butyl ether	mg/kg	ND	0.0030	05/24/11 10:31	
Ethylbenzene	mg/kg	ND	0.0030	05/24/11 10:31	
Methyl-tert-butyl ether	mg/kg	ND	0.0030	05/24/11 10:31	
tert-Amylmethyl ether	mg/kg	ND	0.0030	05/24/11 10:31	
tert-Butyl Alcohol	mg/kg	ND	0.015	05/24/11 10:31	
Toluene	mg/kg	ND	0.0030	05/24/11 10:31	
Xylene (Total)	mg/kg	ND	0.0090	05/24/11 10:31	
1,2-Dichloroethane-d4 (S)	%	117	80-143	05/24/11 10:31	
4-Bromofluorobenzene (S)	%	103	72-122	05/24/11 10:31	
Dibromofluoromethane (S)	%	109	80-136	05/24/11 10:31	
Toluene-d8 (S)	%	96	80-120	05/24/11 10:31	

LABORATORY CONTROL SAMPLE: 71527

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromoethane (EDB)	mg/kg	.05	0.048	96	71-123	
1,2-Dichloroethane	mg/kg	.05	0.055	111	70-124	
Benzene	mg/kg	.05	0.040	81	75-133	
Diisopropyl ether	mg/kg	.05	0.041	82	63-139	
Ethanol	mg/kg	1	1.2	118	53-134	
Ethyl-tert-butyl ether	mg/kg	.05	0.048	96	63-135	
Ethylbenzene	mg/kg	.05	0.046	92	68-131	
Methyl-tert-butyl ether	mg/kg	.05	0.050	101	52-143	
tert-Amylmethyl ether	mg/kg	.05	0.048	96	62-138	
tert-Butyl Alcohol	mg/kg	.5	0.23	46	35-151	
Toluene	mg/kg	.05	0.043	85	73-124	
Xylene (Total)	mg/kg	.15	0.13	88	68-130	
1,2-Dichloroethane-d4 (S)	%			118	80-143	
4-Bromofluorobenzene (S)	%			103	72-122	
Dibromofluoromethane (S)	%			110	80-136	
Toluene-d8 (S)	%			98	80-120	

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QUALITY CONTROL DATA

Project: 2705191
Pace Project No.: 257775

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 71959 71960

Parameter	Units	257841001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,2-Dibromoethane (EDB)	mg/kg	ND	.019	.018	0.013	0.012	70	69	71-123	9	M1
1,2-Dichloroethane	mg/kg	ND	.019	.018	0.016	0.014	85	78	71-124	16	
Benzene	mg/kg	6.1 ug/kg	.019	.018	0.018	0.015	61	51	68-124	16	M1
Diisopropyl ether	mg/kg	ND	.019	.018	0.015	0.014	79	79	20-160	7	
Ethanol	mg/kg	ND	.38	.36	.18J	.22J	48	61	60-140		M1
Ethyl-tert-butyl ether	mg/kg	ND	.019	.018	0.017	0.015	86	86	70-140	8	
Ethylbenzene	mg/kg	17.2 ug/kg	.019	.018	0.020	0.016	14	-7	63-131	23	M1
Methyl-tert-butyl ether	mg/kg	ND	.019	.018	0.015	0.013	77	75	68-139	10	
tert-Amylmethyl ether	mg/kg	ND	.019	.018	0.016	0.014	81	78	74-125	11	
tert-Butyl Alcohol	mg/kg	ND	.19	.18	0.054	0.044	28	25	49-122	20	M1
Toluene	mg/kg	18.3 ug/kg	.019	.018	0.019	0.016	1	-13	61-126	14	M1
Xylene (Total)	mg/kg	75.5 ug/kg	.057	.053	0.055	0.044	-36	-59	68-129	22	M1
1,2-Dichloroethane-d4 (S)	%						89	87	80-143		
4-Bromofluorobenzene (S)	%						107	101	72-122		
Dibromofluoromethane (S)	%						95	96	80-136		
Toluene-d8 (S)	%						105	102	80-120		

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QUALITY CONTROL DATA

Project: 2705191
Pace Project No.: 257775

QC Batch: MSV/4526 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5030 Volatile Organics
Associated Lab Samples: 257775011, 257775012, 257775013

METHOD BLANK: 71795 Matrix: Solid
Associated Lab Samples: 257775011, 257775012, 257775013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	mg/kg	ND	0.0030	05/25/11 16:09	
1,2-Dichloroethane	mg/kg	ND	0.0030	05/25/11 16:09	
Diisopropyl ether	mg/kg	ND	0.0030	05/25/11 16:09	
Ethanol	mg/kg	ND	0.40	05/25/11 16:09	
Ethyl-tert-butyl ether	mg/kg	ND	0.0030	05/25/11 16:09	
Ethylbenzene	mg/kg	ND	0.0030	05/25/11 16:09	
Methyl-tert-butyl ether	mg/kg	ND	0.0030	05/25/11 16:09	
tert-Amylmethyl ether	mg/kg	ND	0.0030	05/25/11 16:09	
tert-Butyl Alcohol	mg/kg	ND	0.015	05/25/11 16:09	
Xylene (Total)	mg/kg	ND	0.0090	05/25/11 16:09	
1,2-Dichloroethane-d4 (S)	%	99	80-143	05/25/11 16:09	
4-Bromofluorobenzene (S)	%	102	72-122	05/25/11 16:09	
Dibromofluoromethane (S)	%	98	80-136	05/25/11 16:09	
Toluene-d8 (S)	%	101	80-120	05/25/11 16:09	

LABORATORY CONTROL SAMPLE: 71796

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromoethane (EDB)	mg/kg	.05	0.049	99	71-123	
1,2-Dichloroethane	mg/kg	.05	0.049	98	70-124	
Diisopropyl ether	mg/kg	.05	0.047	94	63-139	
Ethanol	mg/kg	1	0.97	97	53-134	
Ethyl-tert-butyl ether	mg/kg	.05	0.051	102	63-135	
Ethylbenzene	mg/kg	.05	0.044	88	68-131	
Methyl-tert-butyl ether	mg/kg	.05	0.050	99	52-143	
tert-Amylmethyl ether	mg/kg	.05	0.049	98	62-138	
tert-Butyl Alcohol	mg/kg	.5	0.22	45	35-151	
Xylene (Total)	mg/kg	.15	0.13	85	68-130	
1,2-Dichloroethane-d4 (S)	%			98	80-143	
4-Bromofluorobenzene (S)	%			101	72-122	
Dibromofluoromethane (S)	%			100	80-136	
Toluene-d8 (S)	%			100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 72146 72147

Parameter	Units	257867001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,2-Dibromoethane (EDB)	mg/kg	ND	.038	.042	0.034	0.041	88	98	71-123	19	
1,2-Dichloroethane	mg/kg	ND	.038	.042	0.035	0.043	91	104	71-124	22	
Diisopropyl ether	mg/kg	ND	.038	.042	0.035	0.043	92	102	20-160	19	

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QUALITY CONTROL DATA

Project: 2705191
Pace Project No.: 257775

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 72146 72147

Parameter	Units	257867001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Ethanol	mg/kg	ND	.76	.84	0.72	0.75	94	89	60-140	4	
Ethyl-tert-butyl ether	mg/kg	ND	.038	.042	0.041	0.051	106	123	70-140	23	
Ethylbenzene	mg/kg	ND	.038	.042	0.034	0.039	85	88	63-131	12	
Methyl-tert-butyl ether	mg/kg	ND	.038	.042	0.037	0.046	96	110	68-139	23	
tert-Amylmethyl ether	mg/kg	ND	.038	.042	0.039	0.050	102	120	74-125	25	
tert-Butyl Alcohol	mg/kg	ND	.38	.42	0.15	0.19	39	45	49-122	21	M1
Xylene (Total)	mg/kg	ND	.11	.13	0.098	0.11	79	82	68-129	12	
1,2-Dichloroethane-d4 (S)	%						102	109	80-143		
4-Bromofluorobenzene (S)	%						100	100	72-122		
Dibromofluoromethane (S)	%						102	104	80-136		
Toluene-d8 (S)	%						99	96	80-120		

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

QUALITY CONTROL DATA

Project: 2705191
Pace Project No.: 257775

QC Batch: MSV/4564 Analysis Method: CA LUFT
QC Batch Method: CA LUFT Analysis Description: CA LUFT MSV GRO
Associated Lab Samples: 257775010, 257775011, 257775013

METHOD BLANK: 72206 Matrix: Solid
Associated Lab Samples: 257775010, 257775011, 257775013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-Gasoline (C05-C12)	mg/kg	ND	2.5	05/28/11 05:14	
4-Bromofluorobenzene (S)	%	103	72-122	05/28/11 05:14	

LABORATORY CONTROL SAMPLE: 72207

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-Gasoline (C05-C12)	mg/kg	25	28.5	114	60-140	
4-Bromofluorobenzene (S)	%			103	72-122	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 72525 72526

Parameter	Units	257775011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
TPH-Gasoline (C05-C12)	mg/kg	194	24.9	24.9	232	227	152	131	60-140	2	M1
4-Bromofluorobenzene (S)	%						102	102	72-122		

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

QUALITY CONTROL DATA

Project: 2705191
Pace Project No.: 257775

QC Batch: MSV/4584 Analysis Method: CA LUFT
QC Batch Method: CA LUFT Analysis Description: CA LUFT MSV GRO
Associated Lab Samples: 257775002, 257775008

METHOD BLANK: 72521 Matrix: Solid
Associated Lab Samples: 257775002, 257775008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-Gasoline (C05-C12)	mg/kg	ND	2.5	05/31/11 21:53	
4-Bromofluorobenzene (S)	%	98	72-122	05/31/11 21:53	

LABORATORY CONTROL SAMPLE: 72522

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-Gasoline (C05-C12)	mg/kg	25	25.9	104	60-140	
4-Bromofluorobenzene (S)	%			97	72-122	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 72523 72524

Parameter	Units	257775002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
TPH-Gasoline (C05-C12)	mg/kg	1740	1220	1220	2850	3090	91	111	60-140	8	
4-Bromofluorobenzene (S)	%						98	98	72-122		

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QUALITY CONTROL DATA

Project: 2705191
Pace Project No.: 257775

QC Batch: MSV/4531 Analysis Method: CA LUFT
QC Batch Method: CA LUFT Analysis Description: CA LUFT MSV GRO
Associated Lab Samples: 257775001, 257775004, 257775005, 257775006, 257775007, 257775009

METHOD BLANK: 71873 Matrix: Solid
Associated Lab Samples: 257775001, 257775004, 257775005, 257775006, 257775007, 257775009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-Gasoline (C05-C12)	mg/kg	ND	0.25	05/24/11 10:31	
4-Bromofluorobenzene (S)	%	103	72-122	05/24/11 10:31	

LABORATORY CONTROL SAMPLE: 71874

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-Gasoline (C05-C12)	mg/kg	.5	0.64	128	60-140	
4-Bromofluorobenzene (S)	%			102	72-122	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 71989 71990

Parameter	Units	257774008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
TPH-Gasoline (C05-C12)	mg/kg	ND	.52	.53	0.59	0.59	104	103	60-140	1	
4-Bromofluorobenzene (S)	%						110	107	72-122		

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Seattle, WA 98108
(206)787-5060

QUALITY CONTROL DATA

Project: 2705191
Pace Project No.: 257775

QC Batch: MSV/4532
QC Batch Method: CA LUFT
Analysis Method: CA LUFT
Analysis Description: CA LUFT MSV GRO
Associated Lab Samples: 257775012

METHOD BLANK: 71875
Matrix: Solid
Associated Lab Samples: 257775012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-Gasoline (C05-C12)	mg/kg	ND	0.25	05/25/11 16:09	
4-Bromofluorobenzene (S)	%	102	72-122	05/25/11 16:09	

LABORATORY CONTROL SAMPLE: 71876

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-Gasoline (C05-C12)	mg/kg	.5	0.48	96	60-140	
4-Bromofluorobenzene (S)	%			102	72-122	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 72067 72068

Parameter	Units	257775012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
TPH-Gasoline (C05-C12)	mg/kg	7.2	.39	.46	4.0	4.1	-802	-681	60-140	1	M1
4-Bromofluorobenzene (S)	%						101	101	72-122		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
940 South Harney
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QUALITY CONTROL DATA

Project: 2705191
Pace Project No.: 257775

QC Batch: MSV/4547
QC Batch Method: CA LUFT
Analysis Method: CA LUFT
Analysis Description: CA LUFT MSV GRO
Associated Lab Samples: 257775003

METHOD BLANK: 72002 Matrix: Solid
Associated Lab Samples: 257775003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-Gasoline (C05-C12)	mg/kg	ND	0.25	05/26/11 10:56	
4-Bromofluorobenzene (S)	%	103	72-122	05/26/11 10:56	

LABORATORY CONTROL SAMPLE: 72003

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-Gasoline (C05-C12)	mg/kg	.5	0.51	101	60-140	
4-Bromofluorobenzene (S)	%			101	72-122	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 72004 72005

Parameter	Units	257782002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
TPH-Gasoline (C05-C12)	mg/kg	ND	.65	.67	0.60	0.64	88	92	60-140	8	
4-Bromofluorobenzene (S)	%						103	105	72-122		

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QUALIFIERS

Project: 2705191
Pace Project No.: 257775

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 NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

LABORATORIES

PASI-S	Pace Analytical Services - Seattle

ANALYTE QUALIFIERS

1n	The DRO result for this sample did not match the pattern of the laboratory standard for diesel.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
S5	Surrogate recovery outside control limits due to matrix interferences (not confirmed by re-analysis).

Pace Analytical Services, Inc.
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2705191
Pace Project No.: 257775

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
257775001	MW-14d7	EPA 3546	OEXT/3769	EPA 8015B	GCSV/2539
257775002	MW-14d10	EPA 3546	OEXT/3769	EPA 8015B	GCSV/2539
257775003	MW-14d13	EPA 3546	OEXT/3769	EPA 8015B	GCSV/2539
257775004	MW-15d8	EPA 3546	OEXT/3769	EPA 8015B	GCSV/2539
257775005	MW-15d13	EPA 3546	OEXT/3769	EPA 8015B	GCSV/2539
257775006	MW-16d8	EPA 3546	OEXT/3769	EPA 8015B	GCSV/2539
257775007	MW-16d13	EPA 3546	OEXT/3769	EPA 8015B	GCSV/2539
257775008	MW-17d9	EPA 3546	OEXT/3769	EPA 8015B	GCSV/2539
257775009	MW-17d13	EPA 3546	OEXT/3769	EPA 8015B	GCSV/2539
257775010	B-6d9	EPA 3546	OEXT/3769	EPA 8015B	GCSV/2539
257775011	B-6d14	EPA 3546	OEXT/3769	EPA 8015B	GCSV/2539
257775012	B-6d21	EPA 3546	OEXT/3769	EPA 8015B	GCSV/2539
257775013	B-6d26	EPA 3546	OEXT/3769	EPA 8015B	GCSV/2539
257775001	MW-14d7	EPA 3546	OEXT/3770	EPA 8015B	GCSV/2538
257775002	MW-14d10	EPA 3546	OEXT/3770	EPA 8015B	GCSV/2538
257775003	MW-14d13	EPA 3546	OEXT/3770	EPA 8015B	GCSV/2538
257775004	MW-15d8	EPA 3546	OEXT/3770	EPA 8015B	GCSV/2538
257775005	MW-15d13	EPA 3546	OEXT/3770	EPA 8015B	GCSV/2538
257775006	MW-16d8	EPA 3546	OEXT/3770	EPA 8015B	GCSV/2538
257775007	MW-16d13	EPA 3546	OEXT/3770	EPA 8015B	GCSV/2538
257775008	MW-17d9	EPA 3546	OEXT/3770	EPA 8015B	GCSV/2538
257775009	MW-17d13	EPA 3546	OEXT/3770	EPA 8015B	GCSV/2538
257775010	B-6d9	EPA 3546	OEXT/3770	EPA 8015B	GCSV/2538
257775011	B-6d14	EPA 3546	OEXT/3770	EPA 8015B	GCSV/2538
257775012	B-6d21	EPA 3546	OEXT/3770	EPA 8015B	GCSV/2538
257775013	B-6d26	EPA 3546	OEXT/3770	EPA 8015B	GCSV/2538
257775001	MW-14d7	EPA 3050	MPRP/2238	EPA 6010	ICP/2145
257775002	MW-14d10	EPA 3050	MPRP/2238	EPA 6010	ICP/2145
257775003	MW-14d13	EPA 3050	MPRP/2238	EPA 6010	ICP/2145
257775004	MW-15d8	EPA 3050	MPRP/2238	EPA 6010	ICP/2145
257775005	MW-15d13	EPA 3050	MPRP/2238	EPA 6010	ICP/2145
257775006	MW-16d8	EPA 3050	MPRP/2238	EPA 6010	ICP/2145
257775007	MW-16d13	EPA 3050	MPRP/2238	EPA 6010	ICP/2145
257775008	MW-17d9	EPA 3050	MPRP/2238	EPA 6010	ICP/2145
257775009	MW-17d13	EPA 3050	MPRP/2238	EPA 6010	ICP/2145
257775010	B-6d9	EPA 3050	MPRP/2238	EPA 6010	ICP/2145
257775011	B-6d14	EPA 3050	MPRP/2238	EPA 6010	ICP/2145
257775012	B-6d21	EPA 3050	MPRP/2238	EPA 6010	ICP/2145
257775013	B-6d26	EPA 3050	MPRP/2238	EPA 6010	ICP/2145
257775002	MW-14d10	EPA 5030	MSV/4563	EPA 8260	MSV/4586
257775004	MW-15d8	EPA 5030	MSV/4563	EPA 8260	MSV/4586
257775008	MW-17d9	EPA 5030	MSV/4563	EPA 8260	MSV/4586
257775009	MW-17d13	EPA 5030	MSV/4563	EPA 8260	MSV/4586
257775010	B-6d9	EPA 5030	MSV/4563	EPA 8260	MSV/4586
257775011	B-6d14	EPA 5030	MSV/4563	EPA 8260	MSV/4586
257775012	B-6d21	EPA 5030	MSV/4563	EPA 8260	MSV/4586
257775013	B-6d26	EPA 5030	MSV/4563	EPA 8260	MSV/4586

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2705191
Pace Project No.: 257775

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
257775001	MW-14d7	EPA 8260	MSV/4516		
257775002	MW-14d10	EPA 8260	MSV/4516		
257775003	MW-14d13	EPA 8260	MSV/4516		
257775004	MW-15d8	EPA 8260	MSV/4516		
257775005	MW-15d13	EPA 8260	MSV/4516		
257775006	MW-16d8	EPA 8260	MSV/4516		
257775007	MW-16d13	EPA 8260	MSV/4516		
257775008	MW-17d9	EPA 8260	MSV/4516		
257775009	MW-17d13	EPA 8260	MSV/4516		
257775010	B-6d9	EPA 8260	MSV/4516		
257775011	B-6d14	EPA 8260	MSV/4526		
257775012	B-6d21	EPA 8260	MSV/4526		
257775013	B-6d26	EPA 8260	MSV/4526		
257775002	MW-14d10	CA LUFT	MSV/4584	CA LUFT	MSV/4604
257775008	MW-17d9	CA LUFT	MSV/4584	CA LUFT	MSV/4604
257775010	B-6d9	CA LUFT	MSV/4564	CA LUFT	MSV/4585
257775011	B-6d14	CA LUFT	MSV/4564	CA LUFT	MSV/4585
257775013	B-6d26	CA LUFT	MSV/4564	CA LUFT	MSV/4585
257775001	MW-14d7	CA LUFT	MSV/4531		
257775003	MW-14d13	CA LUFT	MSV/4547		
257775004	MW-15d8	CA LUFT	MSV/4531		
257775005	MW-15d13	CA LUFT	MSV/4531		
257775006	MW-16d8	CA LUFT	MSV/4531		
257775007	MW-16d13	CA LUFT	MSV/4531		
257775009	MW-17d13	CA LUFT	MSV/4531		
257775012	B-6d21	CA LUFT	MSV/4532		

Pace Analytical

257775

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Antea Group	Report To:	Dennis Dettloff	Attention:	Dennis Dettloff
Address:	11050 White Rock Road, Suite 110	Copy To:		Company Name:	Antea Group
	Rancho Cordova, CA 95670			Address:	11050 White Rock Road, Suite 110
Email To:	dennis.dettloff@anteagroup.com	Purchase Order No.		Pace Quote Reference:	
Phone:	916-503-1261 Fax 916-638-8385	Client Project ID:	142705191	Pace Project Manager:	
Requested Due Date/TAT:	10 Day (Default)	Container Order Number:		Pace Profile #:	21400 LL4

Regulatory Agency
Alameda County
State / Location
CA

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ITEM#	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analysis Test Y/N	8015 - TPHd (Silica Gel Treated)	CA Luft - TPHg	8260 - BTEX/8 Oxys	6010 - Total Lead	Residual Chlorine (Y/N)
1	MW-14d7	SL	G			5/17/2011	8:50		1	X									X	X	X	X		
2	MW-14d10	SL	G			5/17/2011	9:00		1	X									X	X	X	X		
3	MW-14d13	SL	G			5/17/2011	9:02		1	X									X	X	X	X		
4	MW-15d8	SL	G			5/17/2011	10:02		1	X									X	X	X	X		
5	MW-15d13	SL	G			5/17/2011	10:08		1	X									X	X	X	X		
6	MW-16d8	SL	G			5/17/2011	11:08		1	X									X	X	X	X		
7	MW-16d13	SL	G			5/17/2011	11:12		1	X									X	X	X	X		
8	MW-17d9	SL	G			5/18/2011	8:13		1	X									X	X	X	X		
9	MW-17d13	SL	G			5/18/2011	8:18		1	X									X	X	X	X		
10	B-6d9	SL	G			5/18/2011	9:38		1	X									X	X	X	X		
11	B-6d14	SL	G			5/18/2011	9:48		1	X									X	X	X	X		
12	B-6d21	SL	G			5/18/2011	9:55		1	X									X	X	X	X		
13	B-6d26	SL	G			5/18/2011	10:03		1	X									X	X	X	X		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
*8 Oxys - MTBE/TBA/DIPE/EDB/1,2-DCA/ETBE/TAME/Ethanol	[signature] / Antea Group	5/19/11	14:30							
	FED EX	5/20/11	0905	Colette Wilmer / PACE	052011	0905	1.6	Y	N	Y

SAMPLER NAME AND SIGNATURE		
PRINT Name of SAMPLER:	Ed Woyrens	
SIGNATURE of SAMPLER:	[signature]	DATE Signed: 5-19-11

Sample Container Count

257775

Face Analytical

CLIENT: Antea

COC PAGE 1 of 1

COC ID# _____

Sample Line Item	VG9H	AG1H	AG1U	BG1H	BP1U	BP2U	BP3U	BP2N	BP2S	WGFU	WGKU	Metal Sleeves			Comments
1												1			
2															
3															
4															
5															
6															
7															
8															
9															
10															
11															
12															Trip Blank? ND

13

AG1H	1 liter HCL amber glass		BP2S	500mL H2SO4 plastic	JGFU	4oz unpreserved amber wide
AG1U	1liter unpreserved amber glass		BP2U	500mL unpreserved plastic	R	terra core kit
AG2S	500mL H2SO4 amber glass		BP2Z	500mL NaOH, Zn Ac	U	Summa Can
AG2U	500mL unpreserved amber glass		BP3C	250mL NaOH plastic	VG9H	40mL HCL clear vial
AG3S	250mL H2SO4 amber glass		BP3N	250mL HNO3 plastic	VG9T	40mL Na Thio. clear vial
BG1H	1 liter HCL clear glass		BP3S	250mL H2SO4 plastic	VG9U	40mL unpreserved clear vial
BG1U	1 liter unpreserved glass		BP3U	250mL unpreserved plastic	VG9W	40mL glass vial preweighted (EPA 5035)
BP1N	1 liter HNO3 plastic		DG9B	40mL Na Bisulfate amber vial	VSG	Headspace septa vial & HCL
BP1S	1 liter H2SO4 plastic		DG9H	40mL HCL amber voa vial	WGFU	4oz clear soil jar
BP1U	1 liter unpreserved plastic		DG9M	40mL MeOH clear vial	WGFX	4oz wide jar w/hexane wipe
BP1Z	1 liter NaOH, Zn, Ac		DG9T	40mL Na Thio amber vial	ZPLC	Ziploc Bag
BP2N	500mL HNO3 plastic		DG9U	40mL unpreserved amber vial		
BP2O	500mL NaOH plastic			Wipe/Swab		

Sample Condition Upon Receipt

Pace Analytical

Client Name: Antea Project # 257775

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

Tracking #: 8753 5531 8336

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 (10173192) or 226099 Type of Ice: (Wet) Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature 1.6°C Biological Tissue is Frozen: Yes No

Temp should be above freezing ≤ 6°C

Date and Initials of person examining contents: 05/20/11 CW

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.	metal Sleeves
-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 SV			
All containers needing preservation have been checked	☐Yes ☐No ☑N/A	14	
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☑N/A		
Exceptions: VOA, coliform, TOC, O&G		Initial when completed	Lot # of added preservative
Samples checked for dechlorination.	☐Yes ☐No ☑N/A	15	
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☑N/A	16.	
Trip Blanks Present:	☐Yes ☐No ☑N/A	17	
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A		
Pace Trip Blank Lot # (if purchased):			

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: RSM Date: 5/20/11

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

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

June 06, 2011

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

RE: Project: 2705191
Pace Project No.: 257776

Dear Dennis Dettloff:
Enclosed are the analytical results for sample(s) received by the laboratory on May 20, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC 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 Ste. Marie

Regina SteMarie

regina.stemarie@pacelabs.com
Project Manager

Enclosures

cc: Tara Bosch, Antea USA
Jonathon Fillingame, Antea USA
Josh Mahoney, Antea USA
Tony Perini, Antea USA
Don Pinkerton, Antea USA
Doug Umland, Antea USA
Ed Weyrens, Antea USA

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Seattle, WA 98108
(206)767-5060

CERTIFICATIONS

Project: 2705191
Pace Project No.: 257776

Washington Certification IDs
940 South Harney Street, Seattle, WA 98108
Alaska CS Certification #: UST-025
Alaska Drinking Water VOC Certification #: WA01230
Alaska Drinking Water Micro Certification #: WA01230
California Certification #: 01153CA
Florida/NELAP Certification #: E87617
Oregon Certification #: WA200007
Washington Certification #: C1229

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Seattle, WA 98108
(206)767-5060

SAMPLE ANALYTE COUNT

Project: 2705191
Pace Project No.: 257776

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
257776001	Waste 1	EPA 6010	BGA	1	PASI-S
		EPA 8260	CC, LPM	8	PASI-S
		EPA 8260	LPM	5	PASI-S
		CA LUFT	LPM	2	PASI-S

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HITS ONLY

Project: 2705191
Pace Project No.: 257776

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
257776001	**Waste 1**					
EPA 6010	Lead	13.4	mg/kg	0.88	05/28/11 20:48	
EPA 8260	Benzene	9.0	mg/kg	0.025	05/28/11 08:13	
EPA 8260	Ethylbenzene	23.6	mg/kg	0.49	05/31/11 22:27	
EPA 8260	Toluene	44.9	mg/kg	0.49	05/31/11 22:27	
EPA 8260	Xylene (Total)	108	mg/kg	1.5	05/31/11 22:27	
CA LUFT	TPH-Gasoline (C05-C12)	797	mg/kg	24.6	05/31/11 22:27	

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ANALYTICAL RESULTS

Project: 2705191
Pace Project No.: 257776

Sample: Waste 1 **Lab ID: 257776001** Collected: 05/18/11 08:25 Received: 05/20/11 09:05 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Lead	**13.4**	mg/kg	0.88	1	05/27/11 17:37	05/28/11 20:48	7439-92-1	
8260 MSV 5030 Med Level VOA	Analytical Method: EPA 8260 Preparation Method: EPA 5030							
Benzene	**9.0**	mg/kg	0.025	1	05/27/11 12:38	05/28/11 08:13	71-43-2	
Ethylbenzene	**23.6**	mg/kg	0.49	10	05/27/11 12:38	05/31/11 22:27	100-41-4	
Toluene	**44.9**	mg/kg	0.49	10	05/27/11 12:38	05/31/11 22:27	108-88-3	
Xylene (Total)	**108**	mg/kg	1.5	10	05/27/11 12:38	05/31/11 22:27	1330-20-7	
Dibromofluoromethane (S)	**87**	%	81-114	1	05/27/11 12:38	05/28/11 08:13	1868-53-7	
Toluene-d8 (S)	109	%	84-121	1	05/27/11 12:38	05/28/11 08:13	2037-26-5	
4-Bromofluorobenzene (S)	**103**	%	78-127	1	05/27/11 12:38	05/28/11 08:13	460-00-4	
1,2-Dichloroethane-d4 (S)	88	%	76-115	1	05/27/11 12:38	05/28/11 08:13	17060-07-0	
8260 MSV 5030	Analytical Method: EPA 8260							
Methyl-tert-butyl ether	ND	mg/kg	0.0029	1		05/27/11 17:21	1634-04-4	
Dibromofluoromethane (S)	90	%	80-136	1		05/27/11 17:21	1868-53-7	
Toluene-d8 (S)	107	%	80-120	1		05/27/11 17:21	2037-26-5	
4-Bromofluorobenzene (S)	125	%	72-122	1		05/27/11 17:21	460-00-4	S3
1,2-Dichloroethane-d4 (S)	203	%	80-143	1		05/27/11 17:21	17060-07-0	S3
CA LUFT MSV GRO Medium Soil	Analytical Method: CA LUFT Preparation Method: CA LUFT							
TPH-Gasoline (C05-C12)	**797**	mg/kg	24.6	10	05/31/11 13:00	05/31/11 22:27		
4-Bromofluorobenzene (S)	97	%	72-122	10	05/31/11 13:00	05/31/11 22:27	460-00-4	

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(206)767-5060

QUALITY CONTROL DATA

Project: 2705191
Pace Project No.: 257776

QC Batch: MPRP/2241
QC Batch Method: EPA 3050
Analysis Method: EPA 6010
Analysis Description: 6010 MET
Associated Lab Samples: 257776001

METHOD BLANK: 72302
Matrix: Solid
Associated Lab Samples: 257776001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	mg/kg	ND	1.0	05/28/11 20:24	

LABORATORY CONTROL SAMPLE: 72303

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	mg/kg	25	24.9	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 72304 72305

Parameter	Units	257779001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Lead	mg/kg	87.8	31.1	31.1	65.8	155	-71	215	75-125	81	M1,R1

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QUALITY CONTROL DATA

Project: 2705191
Pace Project No.: 257776

QC Batch: MSV/4563
QC Batch Method: EPA 5030
Analysis Method: EPA 8260
Analysis Description: 8260 MSV 5030 Medium Soil
Associated Lab Samples: 257776001

METHOD BLANK: 72204 Matrix: Solid
Associated Lab Samples: 257776001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	mg/kg	ND	0.025	05/28/11 05:14	
Ethylbenzene	mg/kg	ND	0.050	05/28/11 05:14	
Toluene	mg/kg	ND	0.050	05/28/11 05:14	
Xylene (Total)	mg/kg	ND	0.15	05/28/11 05:14	
1,2-Dichloroethane-d4 (S)	%	93	76-115	05/28/11 05:14	
4-Bromofluorobenzene (S)	%	103	78-127	05/28/11 05:14	
Dibromofluoromethane (S)	%	89	81-114	05/28/11 05:14	
Toluene-d8 (S)	%	104	84-121	05/28/11 05:14	

LABORATORY CONTROL SAMPLE: 72205

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	mg/kg	1	0.84	84	78-123	
Ethylbenzene	mg/kg	1	0.92	92	74-120	
Toluene	mg/kg	1	0.91	91	70-121	
Xylene (Total)	mg/kg	3	2.7	90	76-120	
1,2-Dichloroethane-d4 (S)	%			94	76-115	
4-Bromofluorobenzene (S)	%			104	78-127	
Dibromofluoromethane (S)	%			94	81-114	
Toluene-d8 (S)	%			105	84-121	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 72531 72532

Parameter	Units	257775004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Benzene	mg/kg	ND	1.5	1.5	1.3	1.5	88	98	79-127	11	
Ethylbenzene	mg/kg	1.9	1.5	1.5	3.2	3.5	94	111	77-126	7	
Toluene	mg/kg	ND	1.5	1.5	1.4	1.5	93	103	77-124	10	
Xylene (Total)	mg/kg	782 ug/kg	4.4	4.4	4.6	5.0	87	96	77-127	9	
1,2-Dichloroethane-d4 (S)	%						93	95	76-115		
4-Bromofluorobenzene (S)	%						102	103	78-127		
Dibromofluoromethane (S)	%						94	96	81-114		
Toluene-d8 (S)	%						105	105	84-121		

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QUALITY CONTROL DATA

Project: 2705191
Pace Project No.: 257776

QC Batch: MSV/4558
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV 5030 Volatile Organics
Associated Lab Samples: 257776001

METHOD BLANK: 72141 Matrix: Solid
Associated Lab Samples: 257776001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Methyl-tert-butyl ether	mg/kg	ND	0.0030	05/27/11 10:04	
1,2-Dichloroethane-d4 (S)	%	121	80-143	05/27/11 10:04	
4-Bromofluorobenzene (S)	%	99	72-122	05/27/11 10:04	
Dibromofluoromethane (S)	%	114	80-136	05/27/11 10:04	
Toluene-d8 (S)	%	93	80-120	05/27/11 10:04	

LABORATORY CONTROL SAMPLE: 72142

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Methyl-tert-butyl ether	mg/kg	.05	0.048	97	52-143	
1,2-Dichloroethane-d4 (S)	%			114	80-143	
4-Bromofluorobenzene (S)	%			104	72-122	
Dibromofluoromethane (S)	%			107	80-136	
Toluene-d8 (S)	%			95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 72635 72636

Parameter	Units	257794037 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Methyl-tert-butyl ether	mg/kg	ND	.039	.039	0.028	0.036	71	93	68-139	25	
1,2-Dichloroethane-d4 (S)	%						111	121	80-143		
4-Bromofluorobenzene (S)	%						101	104	72-122		
Dibromofluoromethane (S)	%						103	109	80-136		
Toluene-d8 (S)	%						105	103	80-120		

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QUALITY CONTROL DATA

Project: 2705191
Pace Project No.: 257776

QC Batch: MSV/4584
QC Batch Method: CA LUFT
Analysis Method: CA LUFT
Analysis Description: CA LUFT MSV GRO
Associated Lab Samples: 257776001

METHOD BLANK: 72521
Matrix: Solid
Associated Lab Samples: 257776001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-Gasoline (C05-C12)	mg/kg	ND	2.5	05/31/11 21:53	
4-Bromofluorobenzene (S)	%	98	72-122	05/31/11 21:53	

LABORATORY CONTROL SAMPLE: 72522

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-Gasoline (C05-C12)	mg/kg	25	25.9	104	60-140	
4-Bromofluorobenzene (S)	%			97	72-122	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 72523 72524

Parameter	Units	257775002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
TPH-Gasoline (C05-C12)	mg/kg	1740	1220	1220	2850	3090	91	111	60-140	8	
4-Bromofluorobenzene (S)	%						98	98	72-122		

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(206)767-5060

QUALIFIERS

Project: 2705191
Pace Project No.: 257776

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 NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

LABORATORIES

PASI-S	Pace Analytical Services - Seattle

ANALYTE QUALIFIERS

M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
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.

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2705191
Pace Project No.: 257776

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
257776001	**Waste 1**	EPA 3050	MPRP/2241	EPA 6010	ICP/2147
257776001	**Waste 1**	EPA 5030	MSV/4563	EPA 8260	MSV/4586
257776001	**Waste 1**	EPA 8260	MSV/4558		
257776001	**Waste 1**	CA LUFT	MSV/4584	CA LUFT	MSV/4604

297776

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Antea Group	Report To:	Dennis Dettloff	Attention:	Dennis Dettloff
Address:	11050 White Rock Road, Suite 110	Copy To:		Company Name:	Antea Group
	Rancho Cordova, CA 95670			Address:	11050 White Rock Road, Suite 110
Email To:	dennis.dettloff@anteagroup.com	Purchase Order No.		Pace Quote Reference	
Phone:	916-503-1261 Fax: 916-638-8385	Client Project ID:	142705191	Pace Project Manager:	
Requested Due Date/TAT:	10 Day (Default)	Container Order Number:		Pace Profile #:	21400IL 53

Regulatory Agency
Alameda County
State / Location
CA

ITEM#	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique MATRIX CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Y/N	Analyses Test: CA LUFT-1FHG	8260 - BTEX/MTBE	6010 - Total Lead	Residual Chlorine (Y/N)
1	Waste 1	SL	C			5/18/2011	8:25		1	X									X	X	X	
2																						
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Antea Group	5/19/11	14:30							
	FED EX	052011	0905	Colette Weaver / PACE	052011	0905	1.6	Y	N	Y

SAMPLER NAME AND SIGNATURE		TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	Ed Weyrens				
SIGNATURE of SAMPLER:	DATE Signed: 5-19-11				

257776

Sample Container Count

CLIENT: Antea

COC PAGE 1 of 1

COC ID# _____

Sample Line Item	VG9H	AG1H	AG1U	BG1H	BP1U	BP2U	BP3U	BP2N	BP2S	WGFU	WGKU	Metal Sleeve			Comments
1												1			
2															
3															
4															
5															
6															
7															
8															
9															
10															
11															
12															Trip Blank? ND

AG1H	1 liter HCL amber glass		BP2S	500mL H2SO4 plastic	JGFU	4oz unpreserved amber wide
AG1U	1liter unpreserved amber glass		BP2U	500mL unpreserved plastic	R	terra core kit
AG2S	500mL H2SO4 amber glass		BP2Z	500mL NaOH, Zn Ac	U	Summa Can
AG2U	500mL unpreserved amber glass		BP3C	250mL NaOH plastic	VG9H	40mL HCL clear vial
AG3S	250mL H2SO4 amber glass		BP3N	250mL HNO3 plastic	VG9T	40mL Na Thio. clear vial
BG1H	1 liter HCL clear glass		BP3S	250mL H2SO4 plastic	VG9U	40mL unpreserved clear vial
BG1U	1 liter unpreserved glass		BP3U	250mL unpreserved plastic	VG9W	40mL glass vial preweighted (EPA 5035)
BP1N	1 liter HNO3 plastic		DG9B	40mL Na Bisulfate amber vial	VSG	Headspace septa vial & HCL
BP1S	1 liter H2SO4 plastic		DG9H	40mL HCL amber voa vial	WGFU	4oz clear soil jar
BP1U	1 liter unpreserved plastic		DG9M	40mL MeOH clear vial	WGFX	4oz wide jar w/hexane wipe
BP1Z	1 liter NaOH, Zn, Ac		DG9T	40mL Na Thio amber vial	ZPLC	Ziploc Bag
BP2N	500mL HNO3 plastic		DG9U	40mL unpreserved amber vial		
BP2O	500mL NaOH plastic		I	Wipe/Swab		

Sample Condition Upon Receipt

Pace Analytical

Client Name: Antea Project # 257776

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

Tracking #: 8753 5531 8356

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 101731982 or 226099 Type of Ice: (Wet) Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature 1.6°C Biological Tissue is Frozen: Yes No

Temp should be above freezing ≤ 6°C

Comments:

Date and Initials of person examining contents: 052011 CW

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. metal sleeves
-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: SL				
All containers needing preservation have been checked.	☐Yes	☐No	☑N/A	14.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes	☐No	☑N/A	
Exceptions: VOA, coliform, TOC, O&G				Initial when completed / Lot # of added preservative
Samples checked for dechlorination:	☐Yes	☐No	☑N/A	15
Headspace in VOA Vials (>6mm):	☐Yes	☐No	☑N/A	16.
Trip Blanks Present:	☐Yes	☐No	☑N/A	17.
Trip Blank Custody Seals Present:	☐Yes	☐No	☑N/A	
Pace Trip Blank Lot # (if purchased):				

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: RSM Date: 5/20/11

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

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

June 09, 2011

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

RE: Project: 2705191
Pace Project No.: 257849

Dear Dennis Dettloff:
Enclosed are the analytical results for sample(s) received by the laboratory on May 26, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC 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 Ste. Marie

Regina SteMarie

regina.stemarie@pacelabs.com
Project Manager

Enclosures

cc: Tara Bosch, Antea USA
Jonathon Fillingame, Antea USA
Josh Mahoney, Antea USA
Tony Perini, Antea USA
Don Pinkerton, Antea USA
Doug Umland, Antea USA
Ed Weyrens, Antea USA

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

CERTIFICATIONS

Project: 2705191
Pace Project No.: 257849

Washington Certification IDs
940 South Harney Street, Seattle, WA 98108
Alaska CS Certification #: UST-025
Alaska Drinking Water VOC Certification #: WA01230
Alaska Drinking Water Micro Certification #: WA01230
California Certification #: 01153CA
Florida/NELAP Certification #: E87617
Oregon Certification #: WA200007
Washington Certification #: C1229

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

SAMPLE ANALYTE COUNT

Project: 2705191
Pace Project No.: 257849

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
257849001	Waste Water_20110524	EPA 6010	BGA	1	PASI-S
		EPA 5030B/8260	LPM	9	PASI-S
		CA LUFT	ATH	2	PASI-S

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HITS ONLY

Project: 2705191
Pace Project No.: 257849

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
257849001	**Waste Water_20110524**					
EPA 5030B/8260	Benzene	838	ug/L	5.0	06/03/11 15:33	
EPA 5030B/8260	Ethylbenzene	171	ug/L	0.50	06/03/11 10:07	
EPA 5030B/8260	Methyl-tert-butyl ether	726	ug/L	5.0	06/03/11 15:33	
EPA 5030B/8260	Toluene	902	ug/L	5.0	06/03/11 15:33	
EPA 5030B/8260	Xylene (Total)	730	ug/L	1.5	06/03/11 10:07	
CA LUFT	TPH-Gasoline (C05-C12)	12000	ug/L	500	06/02/11 09:32	

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ANALYTICAL RESULTS

Project: 2705191
Pace Project No.: 257849

Sample: Waste Water_20110524 **Lab ID: 257849001** Collected: 05/24/11 12:00 Received: 05/26/11 09:05 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Lead	ND	ug/L	10.0	1	06/02/11 08:52	06/03/11 16:24	7439-92-1	
8260 MSV	Analytical Method: EPA 5030B/8260							
Benzene	**838**	ug/L	5.0	10		06/03/11 15:33	71-43-2	
Ethylbenzene	**171**	ug/L	0.50	1		06/03/11 10:07	100-41-4	
Methyl-tert-butyl ether	**726**	ug/L	5.0	10		06/03/11 15:33	1634-04-4	
Toluene	**902**	ug/L	5.0	10		06/03/11 15:33	108-88-3	
Xylene (Total)	**730**	ug/L	1.5	1		06/03/11 10:07	1330-20-7	
4-Bromofluorobenzene (S)	97	%	80-120	1		06/03/11 10:07	460-00-4	
Dibromofluoromethane (S)	96	%	80-122	1		06/03/11 10:07	1868-53-7	
1,2-Dichloroethane-d4 (S)	92	%	80-124	1		06/03/11 10:07	17060-07-0	
Toluene-d8 (S)	96	%	80-123	1		06/03/11 10:07	2037-26-5	
CA LUFT MSV GRO	Analytical Method: CA LUFT							
TPH-Gasoline (C05-C12)	**12000**	ug/L	500	10		06/02/11 09:32		
4-Bromofluorobenzene (S)	104	%	82-116	10		06/02/11 09:32	460-00-4	

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QUALITY CONTROL DATA

Project: 2705191
Pace Project No.: 257849

QC Batch: MPRP/2253
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET
Associated Lab Samples: 257849001

METHOD BLANK: 72744 Matrix: Water
Associated Lab Samples: 257849001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	10.0	06/03/11 16:18	

LABORATORY CONTROL SAMPLE: 72745

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	471	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 72746 72747

Parameter	Units	257888001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Lead	ug/L	46.7	500	500	499	522	90	95	75-125	5	

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QUALITY CONTROL DATA

Project: 2705191
Pace Project No.: 257849

QC Batch: MSV/4611
QC Batch Method: EPA 5030B/8260
Associated Lab Samples: 257849001

Analysis Method: EPA 5030B/8260
Analysis Description: 8260 MSV Water 10 mL Purge

METHOD BLANK: 72874 Matrix: Water
Associated Lab Samples: 257849001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	0.50	06/03/11 06:03	
Ethylbenzene	ug/L	ND	0.50	06/03/11 06:03	
Methyl-tert-butyl ether	ug/L	ND	0.50	06/03/11 06:03	
Toluene	ug/L	ND	0.50	06/03/11 06:03	
Xylene (Total)	ug/L	ND	1.5	06/03/11 06:03	
1,2-Dichloroethane-d4 (S)	%	94	80-124	06/03/11 06:03	
4-Bromofluorobenzene (S)	%	100	80-120	06/03/11 06:03	
Dibromofluoromethane (S)	%	97	80-122	06/03/11 06:03	
Toluene-d8 (S)	%	98	80-123	06/03/11 06:03	

LABORATORY CONTROL SAMPLE: 72875

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	20.7	103	76-127	
Ethylbenzene	ug/L	20	20.3	101	72-125	
Methyl-tert-butyl ether	ug/L	20	20.5	103	58-145	
Toluene	ug/L	20	20.3	102	69-125	
Xylene (Total)	ug/L	60	61.0	102	74-124	
1,2-Dichloroethane-d4 (S)	%			92	80-124	
4-Bromofluorobenzene (S)	%			99	80-120	
Dibromofluoromethane (S)	%			98	80-122	
Toluene-d8 (S)	%			98	80-123	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 73168 73169

Parameter	Units	257877003 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	21.2	21.5	105	107	75-124	1	
Ethylbenzene	ug/L	ND	20	20	21.1	21.3	106	106	76-124	.8	
Methyl-tert-butyl ether	ug/L	ND	20	20	20.2	20.2	101	101	72-130	.3	
Toluene	ug/L	ND	20	20	20.9	21.3	104	105	75-124	2	
Xylene (Total)	ug/L	ND	60	60	63.9	63.9	106	106	76-123	.1	
1,2-Dichloroethane-d4 (S)	%						92	92	80-124		
4-Bromofluorobenzene (S)	%						97	98	80-120		
Dibromofluoromethane (S)	%						98	98	80-122		
Toluene-d8 (S)	%						98	99	80-123		

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QUALITY CONTROL DATA

Project: 2705191
Pace Project No.: 257849

QC Batch: MSV/4603
QC Batch Method: CA LUFT
Analysis Method: CA LUFT
Analysis Description: CA LUFT MSV GRO
Associated Lab Samples: 257849001

METHOD BLANK: 72742 Matrix: Water
Associated Lab Samples: 257849001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-Gasoline (C05-C12)	ug/L	ND	50.0	06/02/11 02:03	
4-Bromofluorobenzene (S)	%	106	82-116	06/02/11 02:03	

LABORATORY CONTROL SAMPLE: 72743

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-Gasoline (C05-C12)	ug/L	500	586	117	60-140	
4-Bromofluorobenzene (S)	%			104	82-116	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 73180 73181

Parameter	Units	257846001 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	598	599	120	120	60-140	.1	
4-Bromofluorobenzene (S)	%						104	105	82-116		

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QUALIFIERS

Project: 2705191
Pace Project No.: 257849

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 NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

LABORATORIES

PASI-S Pace Analytical Services - Seattle

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940 South Harney
Seattle, WA 98108
(206)767-5060

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2705191
Pace Project No.: 257849

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
257849001	**Waste Water_20110524**	EPA 3010	MPRP/2253	EPA 6010	ICP/2158
257849001	**Waste Water_20110524**	EPA 5030B/8260	MSV/4611		
257849001	**Waste Water_20110524**	CA LUFT	MSV/4603		

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

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

257849

Page : 1 Of 0

Section A — Required Client Information:

Company: Antea Group
Address: 11050 White Rock Rd. Suite 110
Rancho Cordova CA 95670
Email To: dennis.dettloff@anteagroup.com
Phone: 916-503-1261 Fax: 6X-8385
Requested Due Date/TAT: 10 Day (Default)

Section B — Required Project Information:

Report To: Dennis Dettloff
Copy To:
Purchase Order No.:
Client Project ID: I42705191
Container Order Number:

Section C — Invoice Information:

Attention: Dennis Dettloff
Company Name: Antea Group
Address: 11050 White Rock Rd. Suite 110
Pace Quote Reference:
Pace Project Manager:
Pace Profile #: 21800/L3

Regulatory Agency: Alameda County
State / Location: CA

ITEM#	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Requested Analysis Filtered (Y/N): 8260 - BTEX/MTBE	CA LUFT - TPHg	6010 - Total Lead	Residual Chlorine (Y/N)
	SAMPLE ID	FIELD POINT NAME																				
1	Waste Water	Waste Water				5/24/11	12:00		7			X	X						X	X	X	
2																						
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	[signature] / Antea Group	5/25/11	15:30							
	Fedex	5/26/11	0905	Jyothi Swamy / PACE	5/26/11	0905	3.7	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Ed Weyrens

SIGNATURE of SAMPLER: [signature] DATE Signed: 5/24/11

Sample Container Count

CLIENT: Antea _CA

Pace Analytical

COC PAGE 1 of 1

COC ID#

257849

Sample Line Item	VG9H	AG1H	AG1U	BG1H	BP1U	BP2U	BP3U	~~BP2H~~ BP3N	BP2S	WGFU	WGKU				Comments
1	3							1							
2															
3															
4															
5															
6															
7															
8															
9															
10															
11															
12															Trip Blank? No

AG1H	1 liter HCL amber glass		BP2S	500mL H2SO4 plastic		JGFU	4oz unpreserved amber wide
AG1U	1liter unpreserved amber glass		BP2U	500mL unpreserved plastic		R	terra core kit
AG2S	500mL H2SO4 amber glass		BP2Z	500mL NaOH, Zn Ac		U	Summa Can
AG2U	500mL unpreserved amber glass		BP3C	250mL NaOH plastic		VG9H	40mL HCL clear vial
AG3S	250mL H2SO4 amber glass		BP3N	250mL HNO3 plastic		VG9T	40mL Na Thio. clear vial
BG1H	1 liter HCL clear glass		BP3S	250mL H2SO4 plastic		VG9U	40mL unpreserved clear vial
BG1U	1 liter unpreserved glass		BP3U	250mL unpreserved plastic		VG9W	40mL glass vial preweighted (EPA 5035)
BP1N	1 liter HNO3 plastic		DG9B	40mL Na Bisulfate amber vial		VSG	Headspace septa vial & HCL
BP1S	1 liter H2SO4 plastic		DG9H	40mL HCL amber voa vial		WGFU	4oz clear soil jar
BP1U	1 liter unpreserved plastic		DG9M	40mL MeOH clear vial		WGFX	4oz wide jar w/hexane wipe
BP1Z	1 liter NaOH, Zn, Ac		DG9T	40mL Na Thio amber vial		ZPLC	Ziploc Bag
BP2N	500mL HNO3 plastic		DG9U	40mL unpreserved amber vial			
BP2O	500mL NaOH plastic		1	Wipe/Swab			

Sample Condition Upon Receipt

Pace Analytical

Client Name: Antea_CA Project # 257849

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

Tracking #: 8753 5531 8325

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 10:731952 or 226099 Type of Ice: (Wet) Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature 3.7 Biological Tissue Is Frozen: Yes No

Temp should be above freezing ≤ 6°C Comments:

Date and Initials of person examining contents: NTS 5/26/11

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. See # 11.
Correct Containers Used:	☒Yes	☐No	☐N/A	10.
-Pace Containers Used:	☒Yes	☐No	☐N/A	
Containers Intact:	☐Yes	☒No	☐N/A	11. 3 vials received broken (flags in kit)
Filtered volume received for Dissolved tests	☐Yes	☐No	☒N/A	12.
Sample Labels match COC:	☒Yes	☐No	☐N/A	13.
-Includes date/time/ID/Analysis Matrix: Water				
All containers needing preservation have been checked.	☒Yes	☐No	☐N/A	14. Metals bottle received with pH 7.
All containers needing preservation are found to be in compliance with EPA recommendation	☐Yes	☒No	☐N/A	
Exceptions: VOA, coliform, TOC, O&G				Initial when completed NTS 5/26/11 Lot # of added preservative 111011
Samples checked for dechlorination:	☐Yes	☐No	☐N/A	15.
Headspace in VOA Vials (>6mm):	☐Yes	☒No	☐N/A	16.
Trip Blanks Present:	☐Yes	☒No	☐N/A	17.
Trip Blank Custody Seals Present	☐Yes	☐No	☒N/A	
Pace Trip Blank Lot # (if purchased):				

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

Person Contacted: Dennis D. Date/Time: 5/26/11 13:21

Comments/ Resolution:

Contacted client to determine if - 20110524 was correct date in TDM ID. Client confirmed RSM

Project Manager Review: RSM Date: 05/26/11

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

Appendix D

Well Development Logs

GREGG

MONITORING WELL DEVELOPMENT LOG

All measurements taken from: ☒ Top of Casing ☐ Protective Casing ☐ Ground Level

Sample ID —

Qty. of Drilling Fluid Lost —

Well Number MW-14

Date 5-23-11

Time Start: 8:22 End: 10:56

Client ANTEA

Project 449 HEGENBERGER, Rd OAKLAND

Job Number DT1961690

Installation Date —

Well Diameter 2"

Borehole Diameter 8"

Screen Length 10FT

Measured Depth (pre-development) 12.85

Measured Depth (post-development) 12.85

Static Water Level (ft.) 4.25

Standing Water Column (ft.) 8.6

One Well Volume (gal.) 1.462

One Annulus Vol. (gal.) —

Minimum Gal. to be Purged 14.62

Development Method Surge-Bail-Pump

Purging Equipment SS Bailer-2" pump

Water Level Equipment Solinst

pH/EC Meter Horiba U50

Turbidity Meter Horiba U50

Other —

Time	Amount Purged (gal.)	pH	EC	Turbidity	D.O.	D.O. Temp.	SAL.	GPM	Comments W.L	Field Tech.
		Field Parameters Measured								
9 10	6	7.11	13.9	714	—	16.48	7.9	1/2	7.35 Surge - 15 Min	
9:14	8	7.12	14.7	621	—	16.51	8.1	1/2	9.66 Bail - 2 Gal	
9 18	10	7.09	14.5	613	—	16.58	8.1	1/2	10.79	
~~9 22~~ 9:56	12	7.10	14.4	283	—	16.12	8.2	1/2	10.31 Well dry Stop To Recharge	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	—	[illegible]	[illegible]	[illegible]	[illegible]3	
10:18	13	7.09	14.6	228	—	16.83	8.2	1/2	12.13	
10:36	14	7.11	14.3	239	—	16.59	8.2	1/2	12.51 Well dry Stop To Recharge	

FINAL FIELD PARAMETER MEASUREMENTS

GREGG

MONITORING WELL DEVELOPMENT LOG

Page _____ of _____

All measurements taken from: ☑ Top of Casing ☐ Protective Casing ☐ Ground Level

Sample ID _____

Well Number MW-15
Date 5-23-11
Time Start: 1:30 End: 3:30
Client ANTEA
Project 449 HENGENBERGER RD/CALUMET
Job Number D2056690
Installation Date —
Well Diameter 2"

Borehole Diameter 8"
Screen Length 10FT
Measured Depth (pre-development) 12.75
Measured Depth (post-development) 12.75
Static Water Level (ft.) 4.25
Standing Water Column (ft.) 8.5
One Well Volume (gal.) 1.445
One Annulus Vol. (gal.) _____

Qty. of Drilling Fluid Lost _____
Minimum Gal. to be Purged 14.45
Development Method Surge-Bail-pump
Purging Equipment SS Bailer, 2" pump
Water Level Equipment Solinst
pH/EC Meter HORIBA U50
Turbidity Meter HORIBA U50
Other _____

Time	Amount Purged (gal.)	Field Parameters Measured: pH	EC	Turbidity	D.O.	D.O. Temp.	SAL.	GPM / WL.	Comments: S.W.L	Field Tech.
2:08	6	6.98	18.8	97.3	—	18.14	11.1	1/2	8.55	Surge - 15 MIN
2:14	7	6.99	18.3	64.4	—	19.37	1.1.2	1/2	9.63	Bail - 3 Gal
2:18	8	7.01	18.6	45	—	17.61	1.13	1/2	10.18	
2:22	9	7.03	18.1	39.7	—	19.59	11.1	1/2	10.59	
2:26	10	7.01	18.3	21.5	—	19.83	11.2	1/2	11.63	
2:34	11	7.03	18.6	19.2	—	20.14	11.1	1/2	10.11	STOP TO RECHARGE
3:00	12	7.00	18.4	16	—	20.66	11.3	1/2	DRY	
									STOP To Recharge	
			NO RECHARGE IN 1/2 HR							

FINAL FIELD PARAMETER MEASUREMENTS

GREGG

MONITORING WELL DEVELOPMENT LOG

Page ____ of ____

All measurements taken from: ☒ Top of Casing ☐ Protective Casing ☐ Ground Level

Sample ID ____

Well Number MW-116
Date 5-24-11
Time Start: 8:25 End: 10:35
Client ANTEA
Project 4441 Eggenberger Road
Job Number D2090650
Installation Date —
Well Diameter 2"

Borehole Diameter 8"
Screen Length 10FT
Measured Depth (pre-development) 12.73
Measured Depth (post-development) 12.73
Static Water Level (ft.) 4.41
Standing Water Column (ft.) ____
One Well Volume (gal.) ____
One Annulus Vol. (gal.) ____

Qty. of Drilling Fluid Lost —
Minimum Gal. to be Purged ____
Development Method Surge-Bail-pump
Purging Equipment SS Bailey-2" pump
Water Level Equipment Solinst
pH/EC Meter Horiba U50
Turbidity Meter Horiba U50
Other —

Time	Amount Purged (gal.)	Field Parameters Measured: pH	EC	Turbidity	D.O.	D.O. Temp.	SAL.	GPM / WL	W.L	Comments	Field Tech.
9:16	6	7.41	5.01	134	-	17.02	2.7	1/2	8.83	Surge-15 min	
10:01	9	7.09	5.23	116	-	19.18	2.7	1/2	10.0	Bail-3 GAL.	
10:9	11	7.10	5.21	68	-	19.74	2.7	1/2	10.51	Pump & GAL	
10:16	13	7.08	5.26	34	—	20.16	2.8	1/2	11.64	well dry Stop	
10:30	14.5	7.13	5.24	12.9	-	21.3	2.7	1/2	10.93	Back to Recharge	

FINAL FIELD PARAMETER MEASUREMENTS

GREGG

MONITORING WELL DEVELOPMENT LOG

All measurements taken from: ☑ Top of Casing ☐ Protective Casing ☐ Ground Level

Sample ID ______

Qty. of Drilling Fluid Lost ______

Well Number MW-17

Date ______

Time Start: 16 46 End: 12:40

Client ANTEA

Project 449 Heyenberger R. Ed. Alan

Job Number 020906690

Installation Date —

Well Diameter 2"

Borehole Diameter 8"

Screen Length 10 FT

Measured Depth (pre-development) 12.74

Measured Depth (post-development) 12.74

Static Water Level (ft.) 7.1

Standing Water Column (ft.) 5.64

One Well Volume (gal.) 0.9

One Annulus Vol. (gal.) —

Minimum Gal. to be Purged ______

Development Method ______

Surge - Bail - pump

Purging Equipment SS Bailer - 2" pump

Water Level Equipment Solinst

pH/EC Meter HORIBA USA

Turbidity Meter HORIBA USA

Other ______

Time	Amount Purged (gal.)	pH	EC	Turbidity	D.O.	D.O. Temp.	SAL.	GPM / W.L.	Comments (W.L)	Field Tech.
11:12	6	7.19	5.66	158	–	17.13	5.6	½	10.93 Surge - 10 MIN	
11:16	7	7.03	5.18	122	–	18.34	5.8	½	11.63 BAIL - 3 GAL	
11:20	8	6.94	15.7	100	–	18.56	5.7	½	12.15	
11:56	9	7.06	15.9	84	–	18.31	5.9	½	11.15 STop To Recharge	
	10									
			WEll	DRY	NO	Recharge	IN	30	MIN	

FINAL FIELD PARAMETER MEASUREMENTS

GREGG

MONITORING WELL DEVELOPMENT LOG

Page 1 of 1

All measurements taken from: ☒ Top of Casing ☐ Protective Casing ☐ Ground Level

Sample ID –

Qty. of Drilling Fluid Lost –

Well Number MW-6

Date 5-23-11

Time Start: 10:55 End: 1:10

Client ANTEA

Project 449 HEGENBERGER RD, OAKLAND

Job Number 070961690

Installation Date –

Well Diameter 2"

Borehole Diameter 8"

Screen Length 10 FT

Measured Depth (pre-development) 12.7

Measured Depth (post-development) 12.7

Static Water Level (ft.) 4.1

Standing Water Column (ft.) 8.6

One Well Volume (gal.) 1.462

One Annulus Vol. (gal.) –

Minimum Gal. to be Purged 14.62

Development Method –

Surge. Bail. Pump

Purging Equipment SS Bailer 2" pump

Water Level Equipment Solinst

pH/EC Meter Horiba U50

Turbidity Meter Horiba U50

Other –

Time	Amount Purged (gal.)	pH	EC	Turbidity	D.O.	D.O. Temp.	SAL.	GPM / W.L.	Comments W.L	Field Tech.
11:28	5	7.05	3.12	74	–	16.96	01.6	1/2	7.97 Surge-Bail-2 gal	
11:36	6	7.08	3.16	79	–	17.12	1.6	1/2	8.36	
11:40	7	7.03	3.11	64	–	17.38	1.6	1/2	9.64	
11:42	8	7.01	3.14	32	–	17.19	1.6	1/2	10.8	
11:44	9	7.04	3.17	27	–	17.23	1.6	1/2	11.95	
12:10	10	7.02	3.11	36	–	16.59	1.6	1/2	9.32 Stop to Recover	
12:28	11	7.01	3.16	32	–	16.94	1.6	1/2	9.94	
12:52	12	7.03	3.19	41.6	–	17.53	1.5	1/2	DRY	

FINAL FIELD PARAMETER MEASUREMENTS

Appendix E

Waste Manifests

NO. 693901 5

NON-HAZARDOUS WASTE DATA FORM

BESI # 194019

GENERATOR

Generator's Name and Mailing Address
PG&E
ATTENTION: LIZ BERMUDEZ
2603 CAMINO RAMON, SUITE 350
SAN RAMON, CA 94583

Generator's Site Address (if different than mailing address)
76 STATION NO. 5191
449 HEGENBERGER RD.
OAKLAND, CA 94621

Generator's Phone: 925-894-0860

Container type removed from site:
XX ☐ Drums ☐ Vacuum Truck ☐ Roll-off Truck ☐ Dump Truck
☐ Other _____
Quantity 3

Container type transported to receiving facility:
☐ Drums XX ☐ Vacuum Truck ☐ Roll-off Truck ☐ Dump Truck
☐ Other _____
Quantity 1 Volume 165 gallons

WASTE DESCRIPTION NON-HAZARDOUS WATER

GENERATING PROCESS WELL PURGING / DECON WATER

COMPONENTS OF WASTE	PPM	%
1. WATER		99-100%
2. TPH		<1%
3.		
4.		

Waste Profile _____ PROPERTIES: pH 7-10 ☐ SOLID XX ☐ LIQUID ☐ SLUDGE ☐ SLURRY ☐ OTHER _____

HANDLING INSTRUCTIONS: _____

Generator Printed/Typed Name: Ed Weyrens for PG&F
Signature: [signature]
Month 06 Day 20 Year 2011

The Generator certifies that the waste as described is 100% non-hazardous

TRANSPORTER

Transporter 1 Company Name: BELSHIRE
Phone# 949-460-6200

Transporter 1 Printed/Typed Name: Larry Moothart
Signature: [signature]
Month 7 Day 7 Year 11

Transporter Acknowledgment of Receipt of Materials

Transporter 2 Company Name: NIETO & SONS TRUCKING, INC.
Phone# 714-990-6855

Transporter 2 Printed/Typed Name: Jeff Yurick
Signature: [signature]
Month 7 Day 18 Year 11

Transporter Acknowledgment of Receipt of Materials

RECEIVING FACILITY

Designated Facility Name and Site Address
DEMENNO KERDOON
2000 N. ALAMEDA ST.
COMPTON, CA 90222
5191
671598

Phone# 310-637-7100

Printed/Typed Name: SOPHAL P. SAY
Signature: [signature]
Month 07 Day 18 Year 11

Designated Facility Owner or Operator: Certification of receipt of materials covered by this data form.

Manifest

SOIL SAFE OF CA – TPST
Non-Hazardous Soils

↓ Manifest # ↓

Date of Shipment:	Responsible for Payment:	Transport Truck #:	Facility #:	Approval Number:	Load #
1 1		111733	A07	37556	001

Generator and/or Consultant

Generator's Name and Billing Address:	Generator's Phone #:	
PC&F ATTENTION: LIZ BERMUDEZ 2603 CAMINO RAMON, SUITE 350 SAN RAMON, CA 94583	925-684-0860	CAL000337083
	Person to Contact:	
	FAX#:	Customer Account Number

Consultant's Name and Billing Address:	Consultant's Phone #:	
	Person to Contact:	
	FAX#:	Customer Account Number

Generation Site (Transport from): *(name & address)*	Site Phone #:	
76 STATION NO. 5191 449 HEGENBERGER RD. OAKLAND, CA 94621	Person to Contact:	
	FAX#:	

Designated Facility (Transport to): *(name & address)*	Facility Phone #:	
SOIL SAFE 12328 HIBISCUS AVENUE ADELANTO, CA 92301	(800) 862-8001	
	Person to Contact: DELLENA JEFFREY	
	FAX#: (760) 246-8004	

Transporter Name and Mailing Address:	Transporter's Phone #:	
BELSHIRE 25971 TOWNE CENTRE DRIVE FOOTHILL RANCH, CA 92610 BESI: 104019	949-460-5200	CAR000183913
	Person to Contact: LARRY MOOTHART	450847
	FAX#: 949-460-5210	Customer Account Number

Description of Soil	Moisture Content	Contaminated by:	Approx. Qty:	Description of Delivery	Gross Weight	Tare Weight	Net Weight
Sand ☐ Organic ☐ Clay ☐ Other ☐	0 - 10% ☐ 10 - 20% ☐ 20% - over ☐	Gas ☐ Diesel ☐ Other ☐	5 dms		38820	36220	2600
Sand ☐ Organic ☐ Clay ☐ Other ☐	0 - 10% ☐ 10 - 20% ☐ 20% - over ☐	Gas ☐ Diesel ☐ Other ☐					1.30

List any exception to items listed above: Bin # 1161 Scale Ticket # 94920

Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils descried in the Soil Data Sheet completed and certified by me/us for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way.

Print or Type Name: Generator ☐ Consultant ☑	Signature and date:	Month	Day	Year
Ed Weyrens		06	20	2011

Transporter

Transporter's certification: I/We acknowledge receipt of the soil referenced above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that the soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.

Print or Type Name:	Signature and date:	Month	Day	Year
Lukasz Patel	Lukasz Patel	7	7	11

Recycling Facility

Discrepancies:
5191
676226

Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above:

Print or Type Name:	Signature and date:
D. JEFFREY/J. PROVANSAL	8.8.11

Please print or type.

TRANSPORTER COPY