

July 26, 2011

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

RECEIVED

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Alameda County
Environmental Health

Subject: Quarterly Summary Report – Second Quarter 2011

**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
Senior Paralegal
Division, Unit, or Group

Attachment

Quarterly Summary Report, Second Quarter 2011

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

*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

July 26, 2011

Prepared for:
Ms. Barbara Jakub
Hazardous Materials Specialist
Alameda County Health Care
Services Agency
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Prepared by:
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1.0 INTRODUCTION

Antea™ Group (formerly Delta Consultants) is pleased to submit this *Quarterly Summary Report, Second Quarter 2011*, for the referenced site in Oakland, CA (**Figure 1**). The subject site is an operating 76 station located on the southwestern corner of Hegenberger Road and Edgewater Drive in Oakland, California. Station facilities include three underground storage tanks (USTs), two dispenser islands, a station building, and a carwash. A total of fourteen groundwater monitoring wells are located at or near the site (**Figures 1 and 2**). Please refer to **Appendix A** for additional site information and for the history of environmental investigations and remedial actions.

This report summarizes the data obtained from the recent groundwater monitoring and sampling event conducted on June 2, 2011. Included herein are site figures and groundwater contaminant data tables and a discussion of trends. This report has received a technical review by Mr. Dennis Dettloff, California Professional Geologist No. 7480.

1.1 Work Performed [Second Quarter 2011]

1. Antea Group submitted the *Quarterly Summary Report, First Quarter 2011*, dated April 28, 2011 to the Alameda County Health Care Services Agency (ACHCSA).
2. Antea Group conducted a site investigation installing four monitoring wells (MW-14 through MW-17) and advancing one soil boring (B-6) between May 16 and 18, 2011.
3. Blaine Tech Services, Inc. (Blaine Tech) conducted the second quarter 2011 groundwater monitoring and sampling event on June 2, 2011.

1.2 Work Proposed [Third Quarter 2011]

1. Antea Group will submit the *Quarterly Summary Report, Second Quarter 2011* (contained herein) to the ACHCSA.
2. Antea Group will submit a site investigation report documenting the monitoring well installation and soil boring advancement conducted in May 2011.
3. Blaine tech will conduct the third quarter 2011 monitoring and sampling event.

2.0 CURRENT PROJECT STATUS

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

| | |
|--|---|
| Monitoring well sampling schedule: | Quarterly: MW-6, MW-10, MW-11, MW-12, MW-12A, and MW-13 through 17 Semi-Annual: MW-3 and MW-7 through MW-9 |
| Total number of monitoring/remediation wells (Table 1): | Fourteen (MW-3, MW-6 through MW-12, MW-12A, and MW-13 through Mw-17). |
| Range of well depths (total depth below ground surface, bgs) (Table 1): | Wells are set from 13 feet to 34 feet bgs. |
| Wells with historical measurable LNAPL (light non-aqueous phase liquid): | Former monitoring wells MW-1 and MW-2 and current monitoring well MW-6 |
| Historical depth to water range, in feet below top of casing (BTOC): | Min: 0.07 (MW-9, Q1 2005) Max: 8.42 (MW-6, Q4 2010) |
| Historical groundwater elevation range (ft) for wells MW-1 through MW-3: | Min: 2.77 (MW-3, Q3 1994) Max: 9.17 (MW-9, Q4 2010) |
| Local receptors: | See Attachment A |
| Current remediation technique | None |

2.1 Regulatory Correspondence

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

2.2 Remedial Activities

No remedial activities took place during the second quarter 2011.

2.3 Groundwater Monitoring

For the second quarter 2011 groundwater monitoring and sampling event, fourteen wells were gauged, purged, and sampled by Blaine Tech per standard sampling protocol (**Appendix B**). Copies of Blaine Tech's field data sheets are presented as **Appendix C**. The recent gauging and sampling data are summarized below and in **Tables 2, 2a, 2b, 3, 3a and 3b**.

| | |
|---|--|
| Well gauging and sampling date: | June 2, 2011 |
| Wells gauged: | MW-3, MW-6 through MW-12, MW-12A, and MW-13 through MW-17 |
| Wells sampled: | MW-3, MW-6 through MW-12, MW-12A and MW-13 through MW-17 |
| Purge method: | 3 well casing volumes via electric, submersible pump |
| Sample collection method: | Disposable bailers |
| Groundwater parameters measured (Attachment C): | Temperature, pH, Conductivity, Oxidation-reduction potential (ORP), Turbidity, Dissolved Oxygen (DO) |
| Wells with measurable LNAPL: | None |
| Current depth to water range (ft BTOC): | Min: 1.75 (MW-11) Max: 5.78 (MW-17) |
| Current groundwater elevation range (ft): | Min: 5.74 (MW-17) Max: 8.79 (MW-6) |
| Change in water depths from previous event (average change for all gauged wells): | 0.038 foot decrease |

| | |
|---|-------------------------|
| Groundwater flow direction and gradient in feet per foot (ft/ft): | Southeast at 0.02 ft/ft |
|---|-------------------------|

2.3.1 Groundwater Flow Gradient and Directional Trends

With the recent installation of four additional wells, this site now has twelve on-site and two off-site monitoring wells. Monitoring wells MW-3, MW-7, MW-8, and MW-9 are sampled during the 2nd and 4th quarters while monitoring wells MW-6, MW-10, MW-11, MW-12, MW-12a, and MW-13 through MW-17 are sampled quarterly. The second quarter 2011 groundwater monitoring and sampling event was performed by Blaine Tech on June 2, 2011. The average groundwater elevation increased 0.038 feet from the March 2011 event. Depth to groundwater in the site monitoring wells ranged from 1.75 feet (MW-11) to 5.78 feet (MW-17) BTOC during the current event. The groundwater flow direction and gradient were interpreted to be to the southeast at 0.02 ft/ft during the current event which is consistent with the historical groundwater flow direction and gradient (**Table 4**).

2.3.2 Groundwater Quality Data

Groundwater samples collected during the first quarter 2011 were submitted with chain-of-custody documentation to Pace Analytical Services, Inc. (Pace), a state of California Environmental Laboratory Accreditation Program (ELAP) certified laboratory (Certification No. 01153CA). The complete analytical report and Antea Group's laboratory data validation checklist is presented as **Appendix D**. Groundwater samples were analyzed for one or more of the following:

- Total petroleum hydrocarbons as gasoline by CA LUFT Method;
- Diesel Range Organics (DRO) [silica gel treated] by Environmental Protection Agency (EPA) Method 8015B;
- Benzene, toluene, ethylbenzene, total xylenes (BTEX), methyl tertiary-butyl ether (MTBE), tert-butyl alcohol (TBA), acetone, and ethanol by EPA Method 8260;
- Methane by RSK 175 AIR Headspace;
- Total iron, dissolved antimony, dissolved arsenic, dissolved barium, dissolved beryllium, dissolved cadmium, dissolved cobalt, dissolved lead, dissolved manganese, dissolved molybdenum, dissolved nickel, dissolved selenium, dissolved silver, dissolved thallium, dissolved vanadium, and dissolved zinc by EPA Method 6010;
- Dissolved Mercury by EPA Method 7470;
- Ferric and ferrous iron by Standard Method (SM) 3500-Fe B#4;
- Biological Oxygen Demand (BOD) 5 day by SM 5210B;
- Chloride and sulfate by EPA Method 300.0;
- Nitrogen, nitrate, nitrogen, NO₂ plus NO₃ by EPA Method 353.2;

- Chemical Oxygen Demand (COD) by EPA Method 410.4;
- Nitrite by SM 4500-NO2 B.

Groundwater analytical results are presented in **Tables 2, 2a, and 2b** (current) and **Tables 3, 3a, and 3b** (historical). The following ranges of contaminant concentrations were reported in the specified site wells' groundwater samples collected on June 2, 2011. Only the reported contaminants are listed in the table below.

| Constituents | Number of Reported Samples Above LRL of the Samples Collected | Minimum Reported Concentration, in µg/L (Sample ID) | Maximum Reported Concentration, in µg/L (Sample ID) |
|---------------|---|---|---|
| TPHg | 9 of 14 | 51,600 (MW-13) | 56,200 (MW-6) |
| DRO | 11* of 14 | 63 (MW-7) | 33,700 (MW-6) |
| Benzene | 7 of 14 | 0.58 (MW-3) | 2,750 (MW-14) |
| Toluene | 7 of 14 | 0.61 (MW-11) | 960 (MW-17) |
| Ethylbenzene | 6 of 14 | 0.96 (MW-10) | 1,790 (MW-14) |
| Total Xylenes | 6 of 14 | 2.2 (MW-3) | 13,400 (MW-14) |
| MTBE | 9 of 14 | 0.74 (MW-17) | 1,200 (MW-16) |
| TBA | 9 of 14 | 6.4 (MW-15) | 366 (MW-17) |

Explanations:

µg/L = Micrograms per liter

LRL = Laboratory reporting limit

* = The DRO results for these samples did not match the pattern of the laboratory standard for diesel.

2.2.3 Groundwater Contaminant Trends

During the second quarter 2011, analytical results from the sample collected from monitoring well MW-6 indicated that DRO, benzene, toluene, ethylbenzene, MTBE, and TBA decreased in concentration while TPHg and total xylenes concentrations increased. Analytical results from the groundwater sample collected from monitoring well MW-10 indicated an increase in TPHg and BTEX concentrations and a decrease in DRO concentrations. TPHg and MTBE concentrations in monitoring well MW-10 remained below the laboratory's indicated reporting limits, as shown in **Table 3**. Analytical results from the groundwater sample collected from monitoring well MW-11 indicated a decrease in MTBE and an increase in DRO, toluene, and TBA concentrations. Analytical results from the groundwater sample collected from monitoring well MW-12 indicated a decrease in MTBE and toluene concentrations and an increase in DRO, TPHg, benzene, ethylbenzene, total xylenes, and TBA concentrations. Analytical results from the groundwater samples collected from monitoring wells MW-12A indicated a decrease in TPHg concentrations. Groundwater samples collected from monitoring well MW-13 indicated a decrease in DRO concentration and an increase in TPHg concentration. Isoconcentration maps for TPHg, benzene, MTBE, and DRO are presented on **Figures 4 through 7** and historical flow directions are presented on **Figure 8**.



2.3.4 Waste Disposal Summary

Approximately 80 gallons of waste water was generated during well purging/sampling and equipment cleaning during the first quarter event. The waste water was transported to Blaine Tech’s bulk facility in San Jose, California. After the batching process, the wastewater was transported to Seaport Environmental in Redwood City, California for disposal. A copy of the waste manifest is presented as **Appendix E**.

2.3.5 Quality Assurance / Quality Control

Antea Group’s QA/QC measures included use of a field duplicate and a detailed QA/QC data validation check on the Pace Laboratory analytical results for the June 2011 sampling event. Antea Group’s laboratory data validation checklist and the Pace laboratory report are presented as **Appendix D**.

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

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

*2n – The TPHg result for the 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 recovery.

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

3.0 CONCLUSIONS AND RECOMMENDATIONS

Antea Group recommends that monitoring wells MW-6, MW-10, MW-11, MW-12, MW-12A, and MW-13 be added to the list of monitoring wells that currently include MW-3, and MW-7, MW-8, and MW-9 to be purged and sampled on a semi-annual basis. Based on results of the recent site investigation and the current groundwater sampling event, it appears that there are two areas of impact. One area is in the vicinity of monitoring wells MW-6 and MW-14 while the other is near monitoring well MW-12. Batch extraction using monitoring wells MW-6 and MW-12 did not appear to decrease concentrations in the groundwater in the vicinity of these two monitoring wells; therefore, Antea Group has discontinued batch extraction events. Antea Group also recommends that monitoring wells MW-14 through MW-17 be sampled for another quarter to better understand concentration trends in the newly installed wells before further site work is recommended.

4.0 REMARKS

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

Prepared by:



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

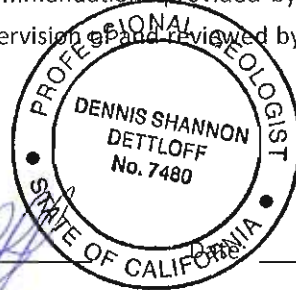
Information, conclusions, and recommendations provided by Antea Group in this document regarding the site have been prepared under the supervision of and reviewed by the licensed professional whose signature appears below.

Licensed Approver:



Dennis S. Dettloff
Project Manager

California Registered Professional Geologist No. 7480



7/24/11

cc: GeoTracker (upload)

Figures

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- Figure 2 Site Plan
- Figure 3 Groundwater Elevation Contour Map – June 2, 2011
- Figure 4 Dissolved Phase TPHg Isoconcentration Map – June 2, 2011
- Figure 5 Dissolved Phase Benzene Isoconcentration Map – June 2, 2011
- Figure 6 Dissolved Phase MTBE Isoconcentration Map – June 2, 2011
- Figure 7 Dissolved Phase DRO Isoconcentration Map – June 2, 2011
- Figure 8 Historical Groundwater Flow Directions

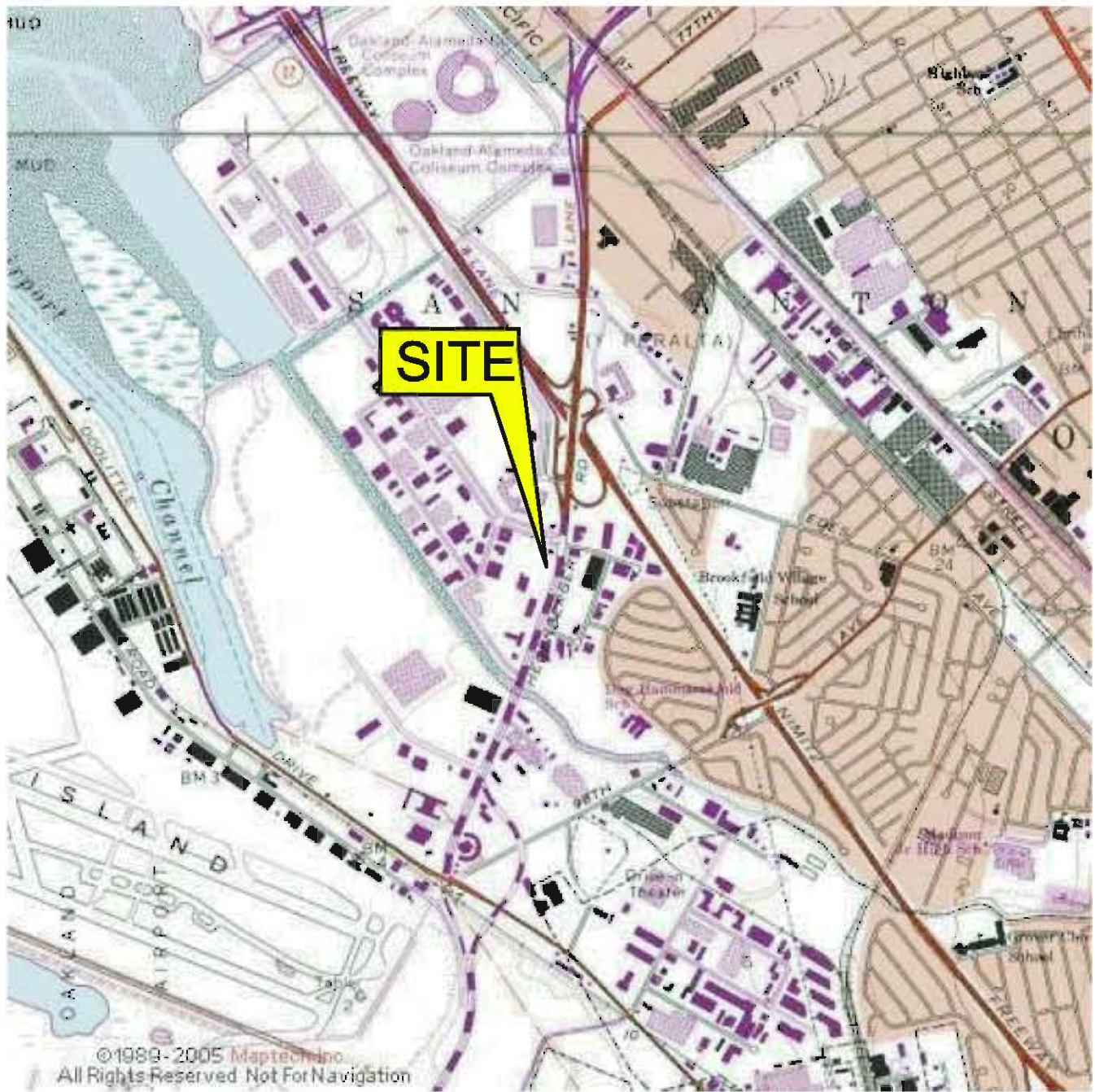



FIGURE 1
SITE LOCATION MAP

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

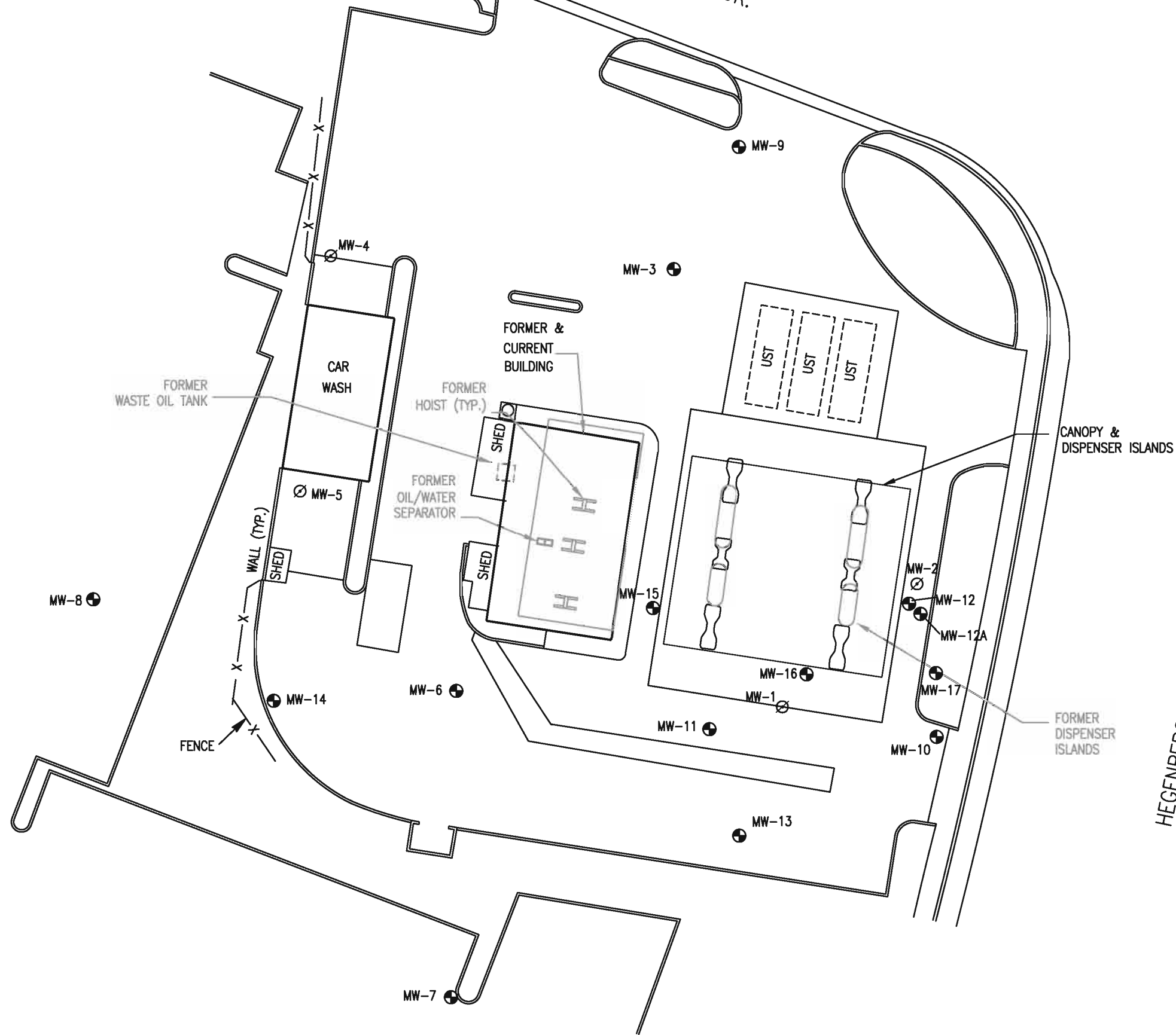
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|--------------------------|-------------------|-------------------------------|---|
| PROJECT NO. 142705191 | PREPARED BY EW | DRAWN BY DR/JH |  |
| DATE 1/31/11 | REVIEWED BY DD | FILE NAME 5043-SiteLocator | |

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

EDGEWATER DR.

LEGEND

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



HEGENBERGER RD.

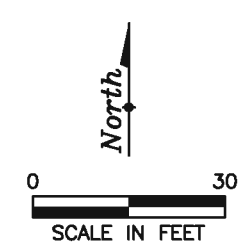

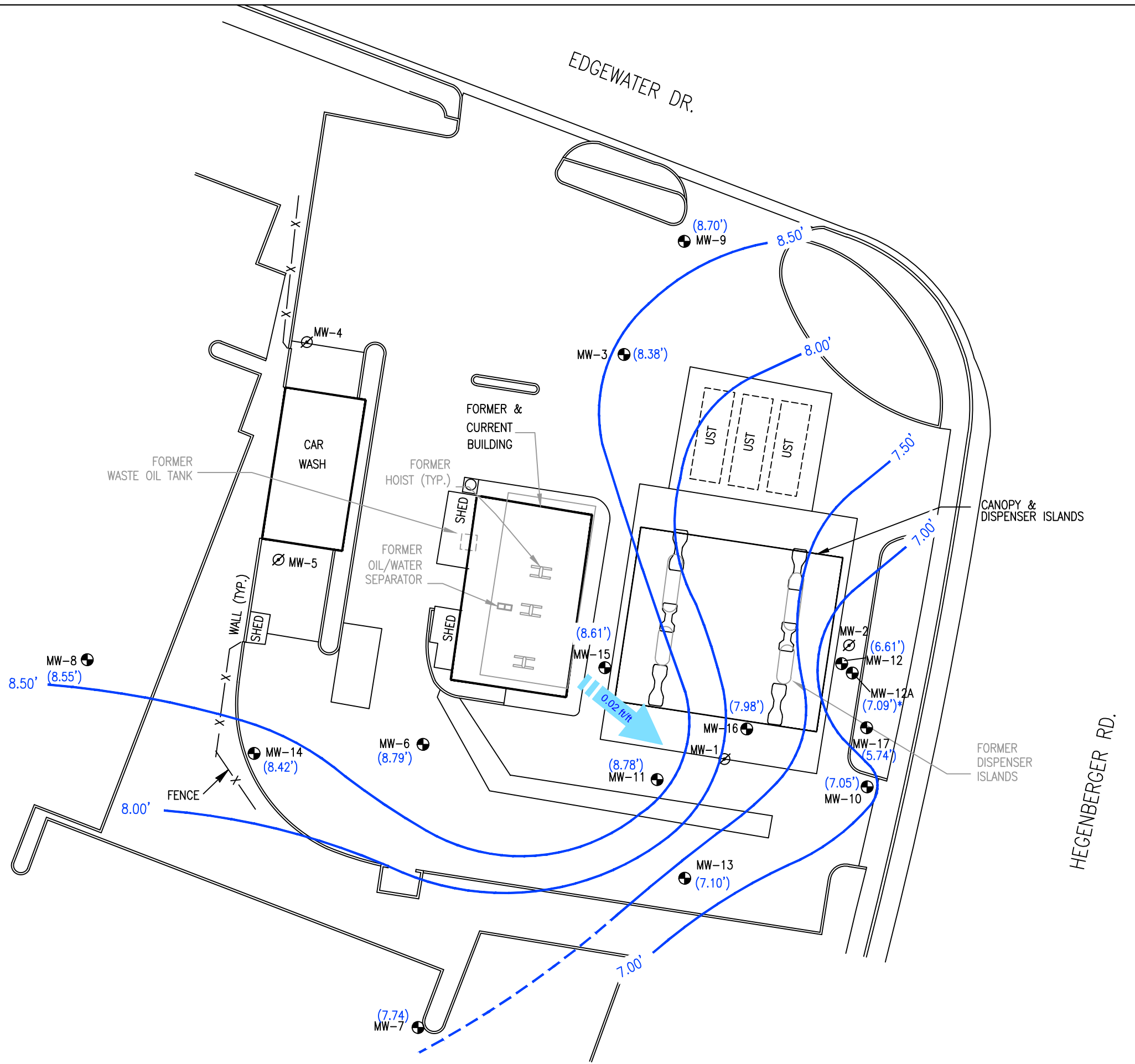


FIGURE 2
SITE PLAN

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

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



LEGEND

| | |
|--------------|---|
| ● MW- | MONITORING WELL |
| ⊘ MW- | ABANDONED MONITORING WELL |
| (8.70) | GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL (ft/msl) |
| * | NOT USED IN CONTOUR INTERPRETATION |
| — 8.50' — | GROUNDWATER CONTOUR LINE (ft/msl) — DASHED WHERE INFERRED (CONTOUR INTERVAL: 0.50 ft) |
| ← 0.02 ft/ft | GROUNDWATER FLOW DIRECTION AND HYDRAULIC GRADIENT |

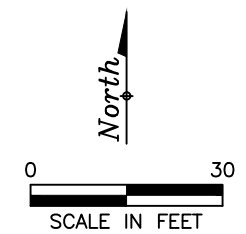
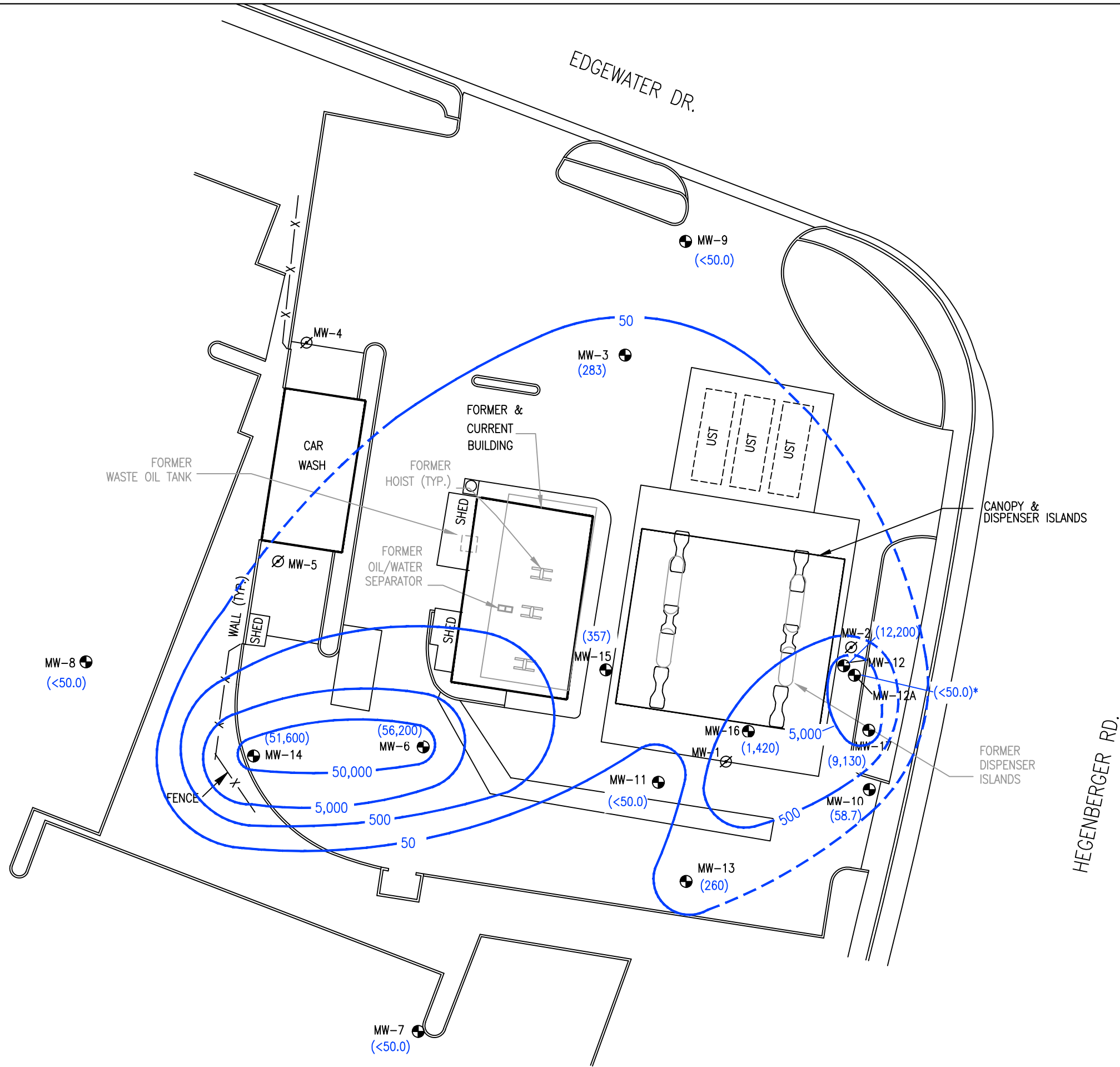


FIGURE 3
GROUNDWATER ELEVATION CONTOUR MAP
 JUNE 2, 2011
 76 STATION NO. 5191/5043
 449 HEGENBERGER ROAD
 OAKLAND, CALIFORNIA

| | | |
|--------------------------|-------------------|-------------------------|
| PROJECT NO. I42705191 | PREPARED BY EW | DRAWN BY JH |
| DATE 07/15/11 | REVIEWED BY DD | FILE NAME 5191-SiteS |



LEGEND

- MW- MONITORING WELL
- ⊘ MW- ABANDONED MONITORING WELL
- (51,600) DISSOLVED PHASE TPHg ISOCONCENTRATION (µg/L)
- 5,000 — DISSOLVED PHASE TPHg ISOCONTOUR (µg/L)
-DASHED WHERE INFERRED

NOTES:

TPHg = TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
 µg/L = MICROGRAMS PER LITER
 <50.0 = LESS THAN LABORATORY INDICATED REPORTING LIMIT
 * = NOT USED IN CONTOURING

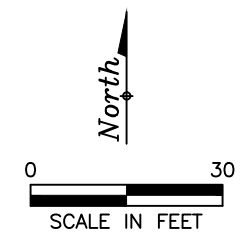

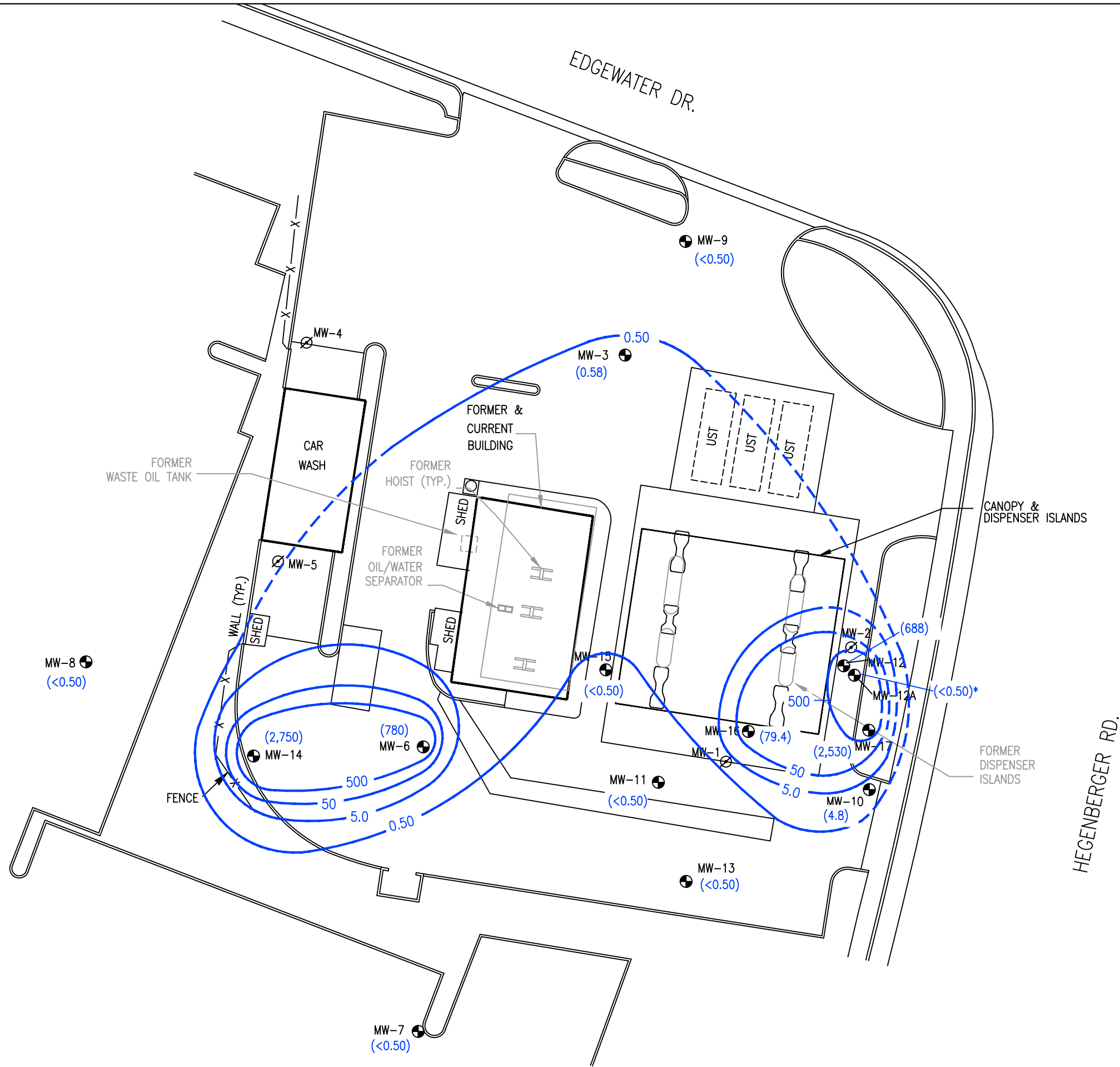


FIGURE 4
 DISSOLVED PHASE TPHg ISOCONCENTRATION MAP
 JUNE 2, 2011
 76 STATION NO. 5191/5043
 449 HEGENBERGER ROAD
 OAKLAND, CALIFORNIA

| | | |
|--------------------------|-------------------|-------------------------|
| PROJECT NO. I42705191 | PREPARED BY EW | DRAWN BY JH |
| DATE 07/15/11 | REVIEWED BY DD | FILE NAME 5191-SiteS |





LEGEND

- MW- MONITORING WELL
- ⊘ MW- ABANDONED MONITORING WELL
- (79.4) DISSOLVED PHASE BENZENE ISOCONCENTRATION (µg/L)
- 50 — DISSOLVED PHASE BENZENE ISOCONTOUR (µg/L)
-DASHED WHERE INFERRED

NOTES:

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

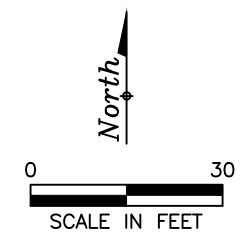
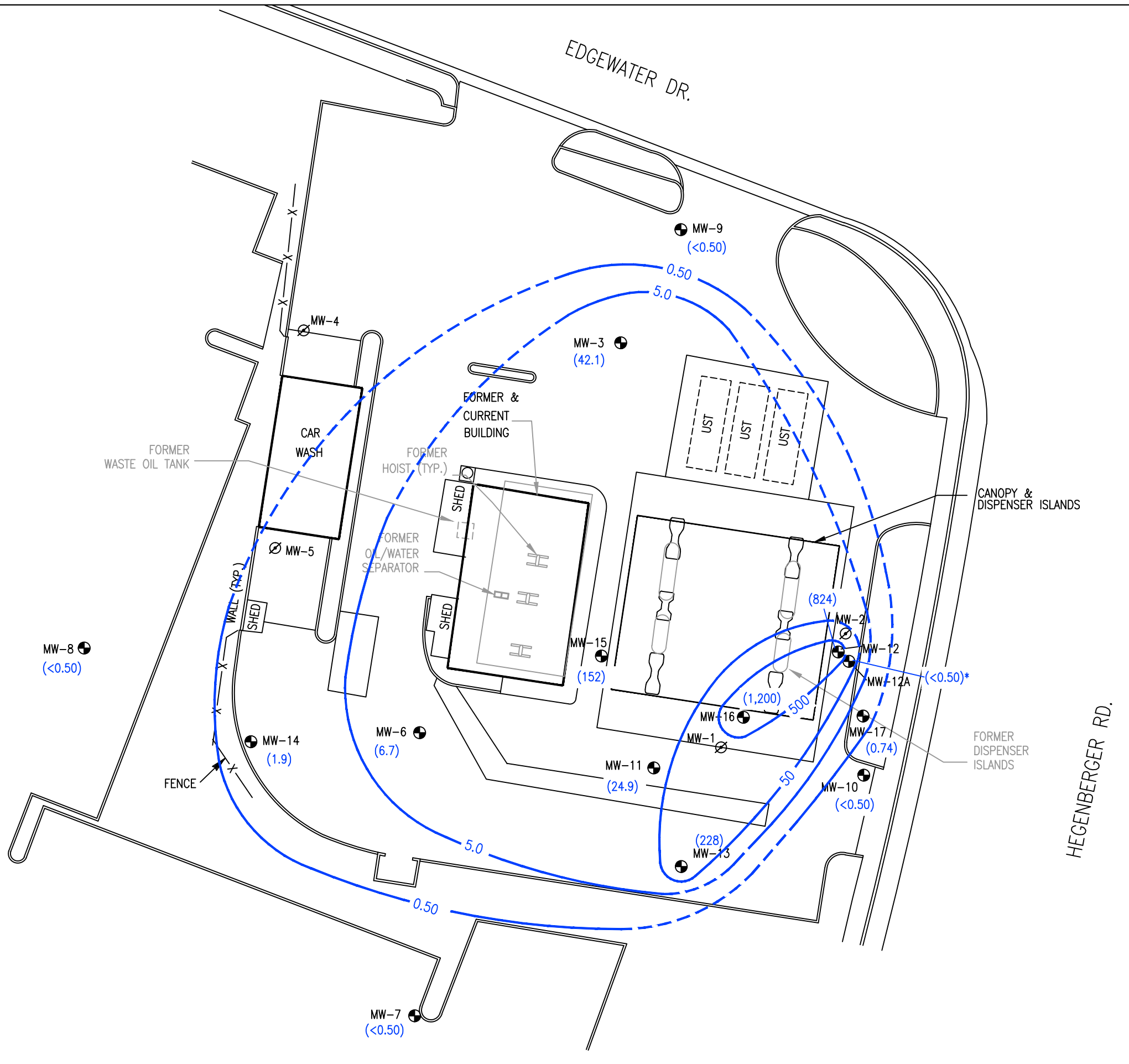


FIGURE 5
 DISSOLVED PHASE BENZENE ISOCONCENTRATION MAP
 JUNE 2, 2011
 76 STATION NO. 5191/5043
 449 HEGENBERGER ROAD
 OAKLAND, CALIFORNIA

| | | |
|--------------------------|-------------------|-------------------------|
| PROJECT NO. I42705191 | PREPARED BY EW | DRAWN BY JH |
| DATE 07/15/11 | REVIEWED BY DD | FILE NAME 5191-SiteS |





LEGEND

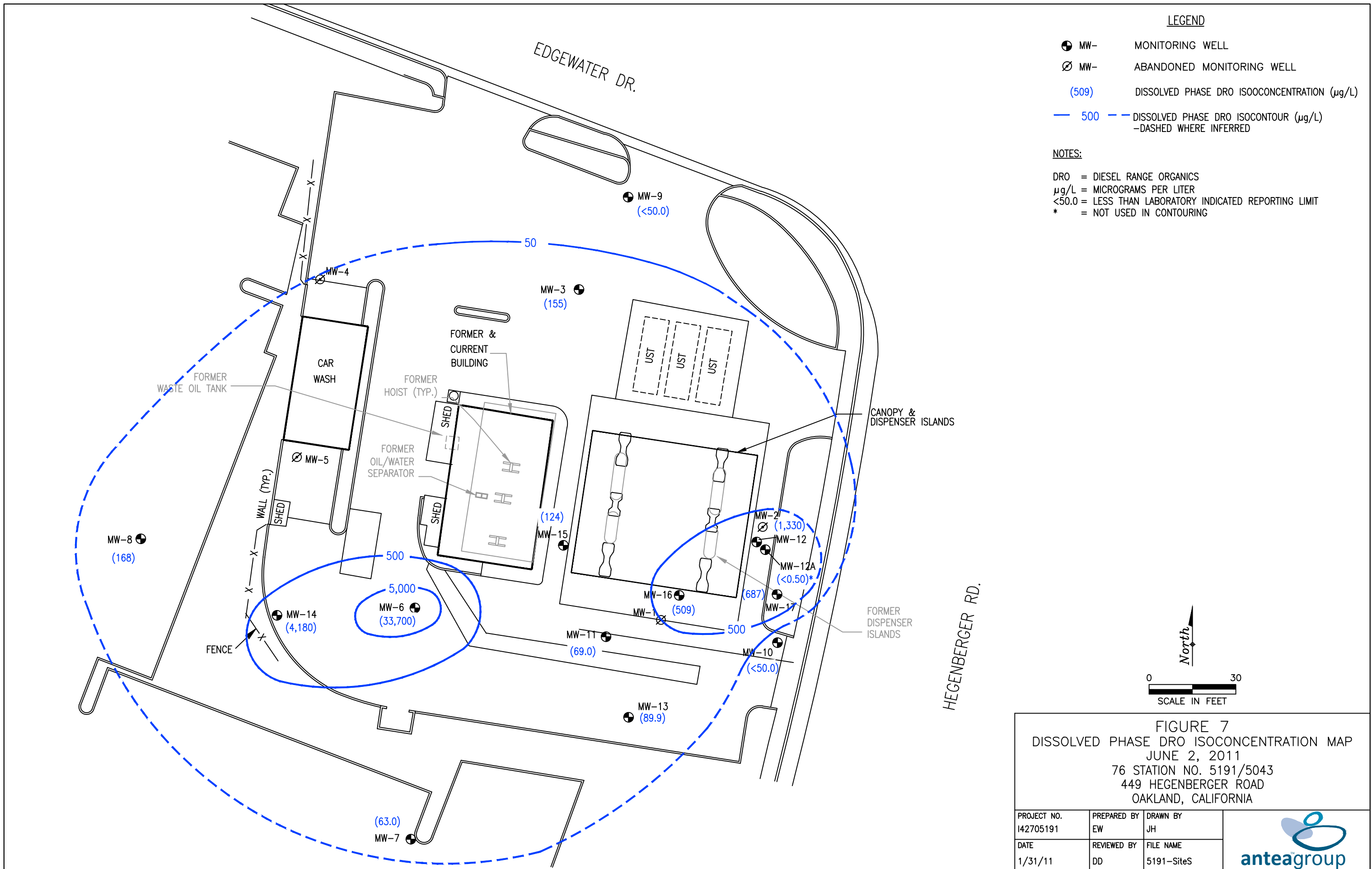
- MW- MONITORING WELL
- ⊘ MW- ABANDONED MONITORING WELL
- (42.1) DISSOLVED PHASE MTBE ISOCONCENTRATION (µg/L)
- 50 — DISSOLVED PHASE MTBE ISOCONTOUR (µg/L)
-DASHED WHERE INFERRED

NOTES:

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

FIGURE 6
 DISSOLVED PHASE MTBE ISOCONCENTRATION MAP
 MARCH 14, 2011
 76 STATION NO. 5191/5043
 449 HEGENBERGER ROAD
 OAKLAND, CALIFORNIA

| | | | |
|--------------------------|-------------------|-------------------------|-----------------------|
| PROJECT NO. I42705191 | PREPARED BY EW | DRAWN BY JH | anteagroup |
| DATE 1/31/11 | REVIEWED BY DD | FILE NAME 5191-SiteS | |



LEGEND

- MW- MONITORING WELL
- ⊘ MW- ABANDONED MONITORING WELL
- (509) DISSOLVED PHASE DRO ISOCONCENTRATION (µg/L)
- 500 — DISSOLVED PHASE DRO ISOCONTOUR (µg/L)
-DASHED WHERE INFERRED

NOTES:

DRO = DIESEL RANGE ORGANICS
 µg/L = MICROGRAMS PER LITER
 <50.0 = LESS THAN LABORATORY INDICATED REPORTING LIMIT
 * = NOT USED IN CONTOURING

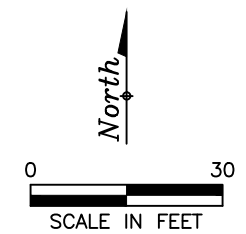
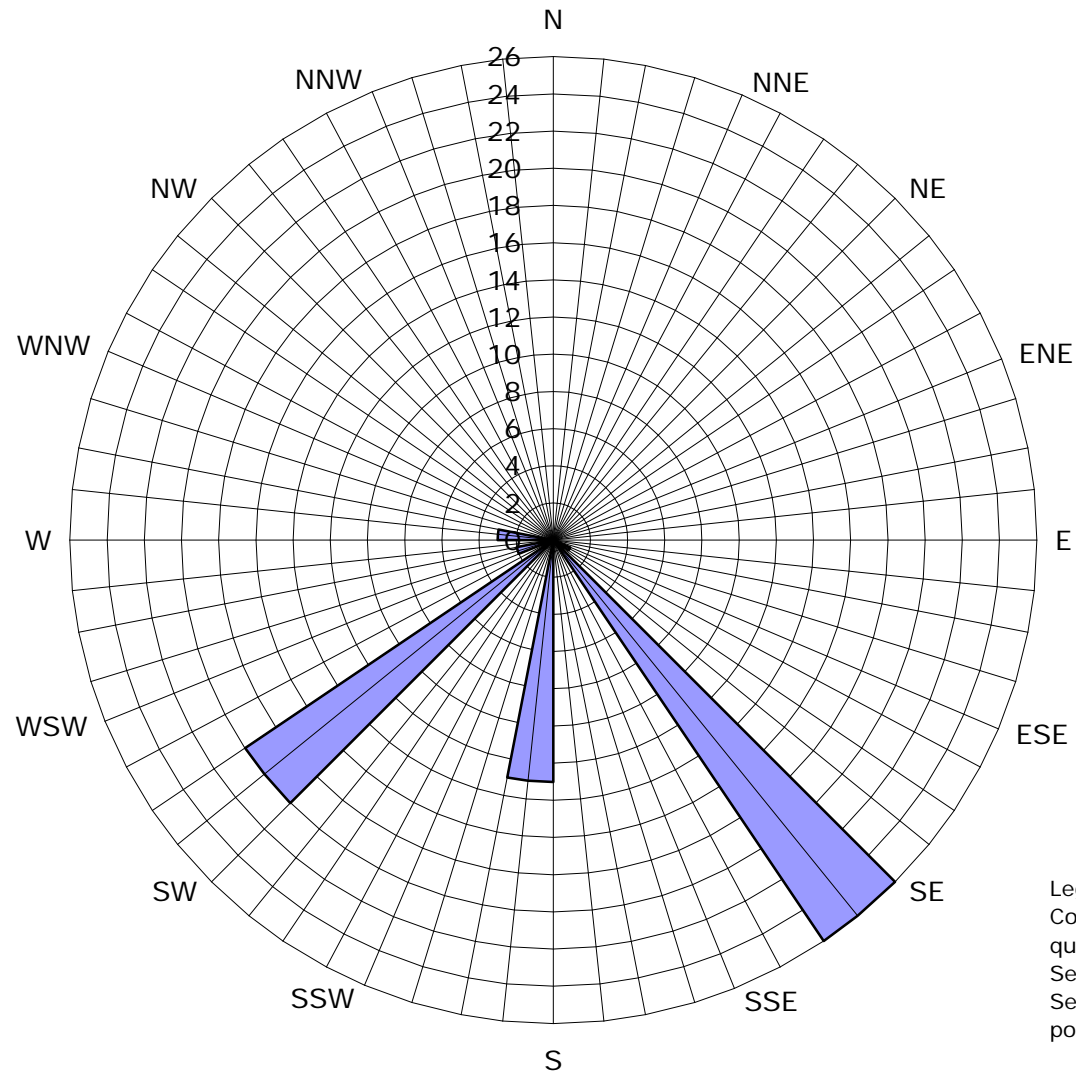


FIGURE 7
 DISSOLVED PHASE DRO ISOCONCENTRATION MAP
 JUNE 2, 2011
 76 STATION NO. 5191/5043
 449 HEGENBERGER ROAD
 OAKLAND, CALIFORNIA

| | | |
|--------------------------|-------------------|-------------------------|
| PROJECT NO. I42705191 | PREPARED BY EW | DRAWN BY JH |
| DATE 1/31/11 | REVIEWED BY DD | FILE NAME 5191-SiteS |



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



Legend
Concentric circles represent
quarterly monitoring events
Second Quarter 1992 through
Second Quarter 2011 65 data
points shown

Groundwater Flow Direction

Tables

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

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

TABLE 2
CURRENT GROUNDWATER GAUGING AND ANALYTICAL DATA
76 Station No. 5191/5043
449 HEGENBERGER RD
OAKLAND, CALIFORNIA



| Well I.D. | Date | GROUNDWATER GAUGING DATA | | | | GROUNDWATER ANALYTICAL DATA | | | | | | | | |
|-----------|----------|--------------------------|---------------------|----------------------|-----------------------|-----------------------------|----------------|----------------|----------------|---------------------|----------------------|-------------|-------------|----------------|
| | | TOC Elevation (ft) | Depth to Water (ft) | LNAPL Thickness (ft) | Water Elevation* (ft) | DRO (ug/L) | TPHg (ug/L) | Benzene (ug/L) | Toluene (ug/L) | Ethylbenzene (ug/L) | Total Xylenes (ug/L) | MTBE (ug/L) | TBA (ug/L) | Ethanol (ug/L) |
| 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

TABLE 2a
 ADDITIONAL CURRENT GROUNDWATER ANALYTICAL DATA
 76 Station No. 5191/5043
 449 HEGENBERGER RD
 OAKLAND, CALIFORNIA



| Well I.D. | Date | GROUNDWATER ANALYTICAL DATA | | | | | | | | | | | | | | | | | | |
|-----------|----------|-----------------------------|--------------------------|-------------------------|------------------------|---------------------------|----------------------------------|-------------------------|-------------------------------|-----------------|------------------------|----------------------|---------------------|-----------------------------|----------------------|---------------------------|----------------|----------------|----------------------------|------------------------|
| | | Acetone (ug/L) | Antimony SW6010 D (ug/L) | Arsenic SW6010 D (ug/L) | Barium SW6010 D (ug/L) | Beryllium SW6010 D (ug/L) | Biochemical Oxygen Demand (ug/L) | Cadmium SW6010 D (ug/L) | Chemical Oxygen Demand (ug/L) | Chloride (ug/L) | Cobalt SW6010 D (ug/L) | Iron SW6010 T (ug/L) | Iron, Ferric (ug/L) | Iron, Ferrous A3500D (ug/L) | Lead SW6010 D (ug/L) | Manganese SW6010 D (ug/L) | Mercury (ug/L) | Methane (ug/L) | Molybdenum SW6010 D (ug/L) | Nickel SW6010 D (ug/L) |
| MW-3 | 6/2/2011 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 13600 | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-6 | 6/2/2011 | <5.0 | <60.0 | 22.0 | 191 | <5.0 | 45100 | <5.0 | 121000 | 149000 | <50.0 | 4320 | 2520 | 1800 | 22.6 | 1510 | <0.20 | 445 | <20.0 | <40.0 |
| MW-7 | 6/2/2011 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 7800 | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-8 | 6/2/2011 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 24900 | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-9 | 6/2/2011 | <5.0 | <60.0 | <20.0 | <100 | <5.0 | 4170 | <5.0 | 15100 | 32400 | <50.0 | 1260 | 1060 | 200 | <10.0 | 91.5 | <0.20 | 673 | <20.0 | <40.0 |
| MW-10 | 6/2/2011 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 9870 | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-11 | 6/2/2011 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1040 | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-12 | 6/2/2011 | <5.0 | <60.0 | <20.0 | <100 | <5.0 | 7240 | <5.0 | 191000 | 7260000 | <50.0 | 9340 | 8740 | 600 | <10.0 | 12800 | <0.20 | 287 | <20.0 | 119 |
| MW-12A | 6/2/2011 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 754 | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-13 | 6/2/2011 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 36700 | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-14 | 6/2/2011 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 47500 | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-15 | 6/2/2011 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 11700 | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-16 | 6/2/2011 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 34200 | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-17 | 6/2/2011 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 109000 | -- | -- | -- | -- | -- | -- | -- | -- |

Analytical Notes:

Bold - Above laboratory's indicated reporting limit
 < - Below laboratory's indicated reporting limit
 ug/L - micrograms/liter

TABLE 2b
ADDITIONAL CURRENT GROUNDWATER ANALYTICAL DATA
76 Station No. 5191/5043
449 HEGENBERGER RD
OAKLAND, CALIFORNIA



| Well I.D. | Date | GROUNDWATER ANALYTICAL DATA | | | | | | | | | | | |
|-----------|----------|-----------------------------|-------------------------------------|-------------------------------|----------------------------------|--------------------------|--------------------------------|---------------------------|------------------------|--------------------------|--------------------------------|--------------------------------|-------------------------|
| | | Nitrate as N (ug/L) | Nitrite as N E353/E351 (ug/L) | Nitrite as N SM4500 (ug/L) | Nitrogen, NO2 plus NO3 (ug/L) | Oil and Grease (ug/L) | Selenium SW6010 D (ug/L) | Silver SW6010 D (ug/L) | Sulfate E300 (ug/L) | Sulfate E300.1 (mg/L) | Thallium SW6010 D (ug/L) | Vanadium SW6010 D (ug/L) | Zinc SW6010 D (ug/L) |
| MW-3 | 6/2/2011 | <50.0 | -- | <10.0 | 52.5 | -- | -- | -- | <5000 | -- | -- | -- | -- |
| MW-6 | 6/2/2011 | <50.0 | -- | <10.0 | 50.5 | -- | <10.0 | <10.0 | 38900 | -- | <20.0 | <50.0 | <40.0 |
| MW-7 | 6/2/2011 | 233 | -- | <10.0 | 239 | -- | -- | -- | 48900 | -- | -- | -- | -- |
| MW-8 | 6/2/2011 | 60.9 | -- | <10.0 | 60.9 | -- | -- | -- | 2830000 | -- | -- | -- | -- |
| MW-9 | 6/2/2011 | <50.0 | -- | <10.0 | <50.0 | -- | <10.0 | <10.0 | 18600 | -- | <20.0 | <50.0 | <40.0 |
| MW-10 | 6/2/2011 | 1290 | -- | 49.3 | 1340 | -- | -- | -- | 71700 | -- | -- | -- | -- |
| MW-11 | 6/2/2011 | 110 | -- | <10.0 | 115 | -- | -- | -- | 62900 | -- | -- | -- | -- |
| MW-12 | 6/2/2011 | <50.0 | -- | <10.0 | 58.0 | -- | <10.0 | <10.0 | 2330000 | -- | <20.0 | <50.0 | <40.0 |
| MW-12A | 6/2/2011 | 4710 | -- | <10.0 | 4720 | -- | -- | -- | 101000 | -- | -- | -- | -- |
| MW-13 | 6/2/2011 | 71.5 | -- | 14.5 | 86.0 | -- | -- | -- | 188000 | -- | -- | -- | -- |
| MW-14 | 6/2/2011 | <50.0 | -- | 10.4 | 50.1 | -- | -- | -- | 56300 | -- | -- | -- | -- |
| MW-15 | 6/2/2011 | 890 | -- | 38.0 | 928 | -- | -- | -- | 62700 | -- | -- | -- | -- |
| MW-16 | 6/2/2011 | <50.0 | -- | <10.0 | <50.0 | -- | -- | -- | 8740 | -- | -- | -- | -- |
| MW-17 | 6/2/2011 | <50.0 | -- | 29.7 | <50.0 | -- | -- | -- | 3920000 | -- | -- | -- | -- |

Analytical Notes:

Bold - Above laboratory's indicated reporting limit
 < - Below laboratory's indicated reporting limit
 mg/L - milligrams per liter
 ug/L - micrograms/liter

TABLE 3
HISTORICAL GROUNDWATER GAUGING AND ANALYTICAL DATA
76 Station No. 5191/5043
449 HEGERBERGER 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) | GRO (ug/L) | Benzene (ug/L) | Toluene (ug/L) | Ethylbenzene (ug/L) | Total Xylenes (ug/L) | MTBE (ug/L) | DIPE (ug/L) | ETBE (ug/L) | TAME (ug/L) | TBA (ug/L) | Ethanol (ug/L) | 1,2-Dibromoethane (EDB) (ug/L) | 1,2-Dichloroethane (ug/L) |
| MW-3 | 1/14/1998 | 8.04 | 2.16 | NP | 5.88 | 340 | 310 | ND | ND | 0.62 | 0.65 | 140 | -- | -- | -- | -- | -- | -- | -- |
| | 4/1/1998 | 8.04 | 2.20 | NP | 5.84 | 320 | 370 | 5.7 | ND | ND | ND | 93 | -- | -- | -- | -- | -- | -- | -- |
| | 7/15/1998 | 8.04 | 3.38 | NP | 4.66 | 510 | 460 | ND | ND | ND | ND | 230 | -- | -- | -- | -- | -- | -- | -- |
| | 10/16/1998 | 8.04 | 2.30 | NP | 5.74 | 67 | 330 | 4.7 | ND | ND | ND | 60 | -- | -- | -- | -- | -- | -- | -- |
| | 1/25/1999 | 8.04 | 2.42 | NP | 5.62 | 120 | 420 | 1.5 | ND | ND | ND | 180 | -- | -- | -- | -- | -- | -- | -- |
| | 4/15/1999 | 8.04 | 2.16 | NP | 5.88 | 170 | 290 | 0.54 | ND | ND | ND | 160 | -- | -- | -- | -- | -- | -- | -- |
| | 7/14/1999 | 8.04 | 2.35 | NP | 5.69 | 420 | 290 | 3.2 | ND | ND | ND | 160 | -- | -- | -- | -- | -- | -- | -- |
| | 10/21/1999 | 8.04 | 2.49 | NP | 5.55 | 350 | 360 | 0.77 | ND | ND | ND | 82 | -- | -- | -- | -- | -- | -- | -- |
| | 1/20/2000 | 8.04 | 2.38 | NP | 5.66 | 2060 | ND | 0.81 | ND | ND | ND | 54 | -- | -- | -- | -- | -- | -- | -- |
| | 4/13/2000 | 8.04 | 2.76 | NP | 5.28 | 200 | 250 | 0.69 | ND | ND | ND | 150 | ND | ND | ND | ND | ND | ND | ND |
| | 7/14/2000 | 8.04 | 3.26 | NP | 4.78 | 423 | 345 | ND | ND | ND | ND | 94.7 | -- | -- | -- | -- | -- | -- | -- |
| | 10/26/2000 | 8.04 | 3.12 | NP | 4.92 | 330 | 480 | 6.0 | ND | ND | ND | 120 | -- | -- | -- | -- | -- | -- | -- |
| | 1/3/2001 | 8.04 | 3.65 | NP | 4.39 | 287 | 364 | 1.59 | ND | ND | ND | 118 | -- | -- | -- | -- | -- | -- | -- |
| | 4/4/2001 | 8.04 | 3.98 | NP | 4.06 | 360 | 417 | 1.24 | ND | ND | 0.802 | 237 | -- | -- | -- | -- | -- | -- | -- |
| | 7/17/2001 | 8.04 | 3.12 | NP | 4.92 | 270 | 480 | ND | ND | ND | ND | 150 | -- | -- | -- | -- | -- | -- | -- |
| | 10/1/2001 | 8.04 | 3.25 | NP | 4.79 | 270 | 310 | 1.0 | <0.50 | <0.50 | <0.50 | 53 | -- | -- | -- | -- | -- | -- | -- |
| | 1/31/2002 | 8.04 | 2.27 | NP | 5.77 | 250 | 250 | 3.5 | <1.0 | <1.0 | <1.0 | 110 | -- | -- | -- | -- | -- | -- | -- |
| | 4/18/2002 | 8.04 | 3.55 | NP | 4.49 | 320 | 300 | <2.0 | <2.0 | <2.0 | <2.0 | 59 | -- | -- | -- | -- | -- | -- | -- |
| | 7/28/2002 | 8.04 | 2.55 | NP | 5.49 | 310 | 500 | <0.50 | <0.50 | <0.50 | <1.0 | 130 | -- | -- | -- | -- | -- | -- | -- |
| | 10/9/2002 | 8.04 | 2.47 | NP | 5.57 | 700 | 690 | <5 | <5 | <5 | <10 | 120 | -- | -- | -- | -- | -- | -- | -- |
| | 1/2/2003 | 8.04 | 1.70 | NP | 6.34 | 210 | 310 | <0.50 | <0.50 | <0.50 | <1.0 | 110 | <2.0 | <2.0 | <2.0 | <100 | <500 | <2.0 | <2.0 |
| | 4/1/2003 | 8.04 | 3.48 | NP | 4.56 | 200 | 250 | <1.0 | <1.0 | <1.0 | <2.0 | 210 | -- | -- | -- | -- | -- | -- | -- |
| | 7/1/2003 | 8.04 | 2.65 | NP | 5.39 | 380 | 450 | <2.5 | <2.5 | <2.5 | <5.0 | 70 | -- | -- | -- | -- | <2500 | -- | -- |
| | 10/2/2003 | 8.04 | 3.12 | NP | 4.92 | 300 | <250 | <2.5 | <2.5 | <2.5 | <5.0 | 210 | -- | -- | -- | -- | <2500 | -- | -- |
| | 1/9/2004 | 8.04 | 2.39 | NP | 5.65 | 200 | 300 | <0.50 | 0.53 | 0.53 | 1.5 | 66 | -- | -- | -- | -- | <500 | -- | -- |
| | 4/26/2004 | 8.04 | 3.11 | NP | 4.93 | 160 | 440 | 2.5 | 5.5 | 2.9 | 9.4 | 81 | -- | -- | -- | -- | <50 | -- | -- |
| | 7/22/2004 | 8.04 | 2.51 | NP | 5.53 | 330 | 420 | <0.5 | <0.5 | <0.5 | <1 | 72 | -- | -- | -- | -- | <1000 | -- | -- |
| | 10/29/2004 | 8.04 | 2.00 | NP | 6.04 | 200 | 460 | 5.6 | 15 | 10 | 46 | 48 | -- | -- | -- | -- | <50 | -- | -- |
| | 1/10/2005 | 8.04 | 1.52 | NP | 6.52 | 250 | 280 | <0.50 | 0.62 | <0.50 | 2.4 | 64 | -- | -- | -- | -- | <50 | -- | -- |
| | 6/15/2005 | 8.04 | 2.00 | NP | 6.04 | 360 | 460 | <0.50 | 0.70 | 0.56 | 1.9 | 110 | -- | -- | -- | -- | <50 | -- | -- |
| | 9/27/2005 | 8.04 | 1.90 | NP | 6.14 | <200 | 210 | <0.50 | 0.60 | <0.50 | <1.0 | 100 | <0.50 | <0.50 | <0.50 | 79 | <250 | -- | -- |
| | 12/13/2005 | 8.04 | 2.35 | NP | 5.69 | 230 | 230 | <0.50 | <0.50 | <0.50 | <1.0 | 92 | -- | -- | -- | -- | <250 | -- | -- |
| | 3/23/2006 | 8.04 | 1.84 | NP | 6.20 | 260 | 290 | <0.50 | <0.50 | <0.50 | <1.0 | 88 | -- | -- | -- | -- | <250 | -- | -- |
| | 6/23/2006 | 8.04 | 2.26 | NP | 5.78 | 330 | 500 | <0.50 | <0.50 | <0.50 | <1.0 | 75 | -- | -- | -- | -- | <250 | -- | -- |
| | 9/26/2006 | 8.04 | 2.08 | NP | 5.96 | 260 | 270 | <0.50 | <0.50 | <0.50 | <0.50 | 73 | -- | -- | -- | -- | <250 | -- | -- |
| | 12/22/2006 | 8.04 | 1.88 | NP | 6.16 | 250 | 260 | <0.50 | <0.50 | <0.50 | 1.2 | 71 | -- | -- | -- | -- | <250 | -- | -- |
| | 3/30/2007 | 8.04 | 2.47 | NP | 5.57 | 210 | 390 | <0.50 | <0.50 | <0.50 | <0.50 | 120 | -- | -- | -- | -- | <250 | -- | -- |
| | 6/28/2007 | 8.04 | 2.54 | NP | 5.50 | 290 | 370 | <0.50 | <0.50 | <0.50 | <0.50 | 55 | -- | -- | -- | -- | <250 | -- | -- |
| | 9/25/2007 | 8.04 | 2.56 | NP | 5.48 | 210 | 350 | <0.50 | <0.50 | <0.50 | <0.50 | 61 | -- | -- | -- | -- | <250 | -- | -- |
| | 12/28/2007 | 8.04 | 2.29 | NP | 5.75 | 150 | 260 | <0.50 | <0.50 | <0.50 | <1.0 | 66 | -- | -- | -- | -- | <250 | -- | -- |
| 3/22/2008 | 8.04 | 3.26 | NP | 4.78 | 230 | 390 | <0.50 | <0.50 | <0.50 | <1.0 | 39 | -- | -- | -- | -- | <250 | -- | -- | |
| 6/23/2008 | 8.04 | 2.60 | NP | 5.44 | 130 | 200 | <0.50 | <0.50 | <0.50 | <1.0 | 46 | -- | -- | -- | -- | <250 | -- | -- | |
| 9/19/2008 | 8.04 | 3.45 | NP | 4.59 | 93 | 180 | <0.50 | <0.50 | <0.50 | <1.0 | 120 | -- | -- | -- | -- | <250 | -- | -- | |
| 12/31/2008 | 8.04 | 2.55 | NP | 5.49 | 110 | 190 | <0.50 | <0.50 | <0.50 | <1.0 | 38 | -- | -- | -- | -- | <250 | -- | -- | |
| 3/27/2009 | 8.04 | 2.37 | NP | 5.67 | 130 | 150 | <0.50 | <0.50 | <0.50 | <1.0 | 50 | -- | -- | -- | -- | <250 | -- | -- | |
| 5/28/2009 | 8.04 | 3.32 | NP | 4.72 | 120 | 190 | <0.50 | <0.50 | <0.50 | <1.0 | 60 | -- | -- | -- | -- | <250 | -- | -- | |
| 9/17/2009 | 8.04 | 2.63 | NP | 5.41 | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | |
| 12/17/2009 | 8.04 | 2.13 | NP | 5.91 | 338 | 300 | <0.50 | <0.50 | 0.78 | <1.5 | 43.1 | -- | -- | -- | -- | <250 | -- | -- | |
| 3/29/2010 | 8.04 | 2.22 | NP | 5.82 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| 6/30/2010 | 10.81 | 2.91 | NP | 7.90 | 89.7 | 261 | <0.50 | <0.50 | <0.50 | <1.5 | 89.0 | -- | -- | -- | -- | <250 | -- | -- | |
| 7/6/2010 | 10.81 | 2.66 | NP | 8.15 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| 9/20/2010 | 10.81 | 3.12 | NP | 7.69 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| 12/8/2010 | 10.81 | 2.37 | NP | 8.44 | 137 | 306 | <0.50 | <0.50 | <0.50 | <1.5 | 58.8 | -- | -- | -- | -- | <250 | -- | -- | |

TABLE 3
 HISTORICAL GROUNDWATER GAUGING AND ANALYTICAL DATA
 76 Station No. 5191/5043
 449 HEGERBERGER 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) | GRO (ug/L) | Benzene (ug/L) | Toluene (ug/L) | Ethylbenzene (ug/L) | Total Xylenes (ug/L) | MTBE (ug/L) | DIPE (ug/L) | ETBE (ug/L) | TAME (ug/L) | TBA (ug/L) | Ethanol (ug/L) | 1,2-Dibromoethane (EDB) (ug/L) | 1,2-Dichloroethane (ug/L) |
| MW-6 | 4/28/1997 | 8.87 | 4.78 | 0.03 | 4.11 | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH |
| | 5/15/1997 | 8.87 | 4.60 | 0.25 | 4.46 | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH |
| | 5/27/1997 | 8.87 | 4.50 | 0.25 | 4.56 | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH |
| | 6/9/1997 | 8.87 | 4.60 | 0.20 | 4.42 | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH |
| | 6/24/1997 | 8.87 | 4.50 | 0.25 | 4.56 | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH |
| | 7/9/1997 | 8.87 | 4.80 | 0.60 | 4.52 | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH |
| | 7/15/1997 | 8.87 | 4.63 | 0.42 | 4.56 | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH |
| | 7/21/1997 | 8.87 | 4.75 | 0.25 | 4.31 | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH |
| | 8/6/1997 | 8.87 | 4.50 | 0.10 | 4.45 | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH |
| | 8/20/1997 | 8.87 | 4.55 | 0.10 | 4.40 | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH |
| | 9/2/1997 | 8.87 | 4.75 | 0.05 | 4.16 | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH |
| | 10/9/1997 | 8.87 | 4.84 | 0.04 | 4.06 | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH |
| | 1/14/1998 | 8.87 | 3.90 | 0.94 | 5.68 | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH |
| | 2/12/1998 | 8.87 | 3.35 | 0.64 | 6.00 | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH |
| | 3/3/1998 | 8.87 | 4.51 | 0.02 | 4.38 | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH |
| | 4/1/1998 | 8.87 | 3.67 | 1.60 | 6.40 | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH |
| | 5/26/1998 | 8.87 | 4.11 | 0.50 | 5.14 | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH |
| | 6/15/1998 | 8.87 | 5.03 | 0.30 | 4.07 | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH |
| | 7/15/1998 | 8.87 | 4.56 | 0.05 | 4.35 | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH |
| | 8/21/1998 | 8.87 | 4.77 | 0.02 | 4.12 | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH |
| | 9/30/1998 | 8.87 | 5.08 | 0.03 | 3.81 | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH |
| | 10/16/1998 | 8.87 | 4.31 | 2.40 | 6.36 | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH |
| | 11/6/1998 | 8.87 | 3.98 | 0.17 | 5.02 | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH |
| | 11/25/1998 | 8.87 | 3.92 | 0.10 | 5.03 | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH |
| | 12/28/1998 | 8.87 | 3.90 | 0.20 | 5.12 | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH |
| | 1/25/1999 | 8.87 | 4.18 | 0.60 | 5.14 | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH |
| | 2/22/1999 | 8.87 | 4.07 | 0.22 | 4.97 | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH |
| | 3/22/1999 | 8.87 | 4.32 | 0.15 | 4.66 | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH |
| | 4/15/1999 | 8.87 | 4.23 | 0.95 | 5.35 | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH |
| | 5/28/1999 | 8.87 | 4.38 | 0.39 | 4.78 | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH |
| | 6/29/1999 | 8.87 | 4.12 | 0.02 | 4.77 | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH |
| | 7/14/1999 | 8.87 | 4.20 | 0.03 | 4.69 | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH |
| | 8/23/1999 | 8.87 | 4.51 | 0.24 | 4.54 | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH |
| | 9/30/1999 | 8.87 | 4.17 | 0.17 | 4.83 | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH |
| | 10/21/1999 | 8.87 | 4.27 | 0.12 | 4.69 | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH |
| | 11/29/1999 | 8.87 | 4.18 | NP | 4.69 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/20/1999 | 8.87 | 4.26 | 0.01 | 4.62 | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH |
| | 1/20/2000 | 8.87 | 4.31 | NP | 4.56 | 67600 | 130000 | 2900 | 8600 | 2000 | 16000 | ND | -- | -- | -- | -- | -- | -- | -- |
| | 2/26/2000 | 8.87 | 3.98 | NP | 4.89 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 3/31/2000 | 8.87 | 4.14 | NP | 4.73 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 4/13/2000 | 8.87 | 4.04 | NP | 4.83 | 8700 | 140000 | 5000 | 14000 | 3600 | 27000 | 7700 | -- | -- | -- | -- | -- | -- | -- | |
| 5/26/2000 | 8.87 | 4.41 | NP | 4.46 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| 6/17/2000 | 8.87 | 4.35 | NP | 4.52 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| 7/14/2000 | 8.87 | 4.47 | NP | 4.40 | 133000 | 259000 | 7670 | 13700 | 6860 | 40700 | ND | -- | -- | -- | -- | -- | -- | -- | |
| 8/24/2000 | 8.87 | 3.71 | NP | 5.16 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| 9/27/2000 | 8.87 | 4.33 | NP | 4.54 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| 10/26/2000 | 8.87 | 4.32 | NP | 4.55 | 61000 | 110000 | 7000 | 6200 | 3700 | 12000 | 670 | -- | -- | -- | -- | -- | -- | -- | |
| 1/3/2001 | 8.87 | 4.52 | NP | 4.35 | 929 | 84700 | 3950 | 4130 | 3650 | 11800 | ND | -- | -- | -- | -- | -- | -- | -- | |
| 4/4/2001 | 8.87 | 4.29 | NP | 4.58 | 18000 | 69800 | 2060 | 2840 | 3650 | 10900 | 47.8 | ND | ND | ND | ND | ND | ND | ND | |
| 7/17/2001 | 8.87 | 4.37 | NP | 4.50 | 20000 | 100000 | 3200 | 3300 | 3400 | 12000 | ND | -- | -- | -- | -- | -- | -- | -- | |
| 10/1/2001 | 8.87 | 4.45 | NP | 4.42 | 24000 | 110000 | 3200 | 2400 | 4500 | 13000 | <1000 | -- | -- | -- | -- | -- | -- | -- | |
| 1/31/2002 | 8.87 | 4.03 | NP | 4.84 | 11000 | 230000 | 2400 | 1800 | 5400 | 16000 | <2500 | -- | -- | -- | -- | -- | -- | -- | |
| 4/18/2002 | 8.87 | 3.45 | NP | 5.42 | 3500 | 94000 | 6800 | 13000 | 3000 | 19000 | <500 | -- | -- | -- | -- | -- | -- | -- | |

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



| Well I.D. | Date | GROUNDWATER GAUGING DATA | | | | GROUNDWATER ANALYTICAL DATA | | | | | | | | | | | | | |
|------------|------------|--------------------------|---------------------|----------------------|-----------------------|-----------------------------|------------|----------------|----------------|---------------------|----------------------|-------------|-------------|-------------|-------------|------------|----------------|--------------------------------|---------------------------|
| | | TOC Elevation (ft) | Depth to Water (ft) | LNAPL Thickness (ft) | Water Elevation* (ft) | DRO (ug/L) | GRO (ug/L) | Benzene (ug/L) | Toluene (ug/L) | Ethylbenzene (ug/L) | Total Xylenes (ug/L) | MTBE (ug/L) | DIPE (ug/L) | ETBE (ug/L) | TAME (ug/L) | TBA (ug/L) | Ethanol (ug/L) | 1,2-Dibromoethane (EDB) (ug/L) | 1,2-Dichloroethane (ug/L) |
| MW-6 | 7/28/2002 | 8.87 | 2.24 | NP | 6.63 | 27000 | 110000 | 530 | 170 | 3200 | 7300 | <100 | -- | -- | -- | -- | -- | -- | -- |
| | 10/9/2002 | 8.87 | 3.53 | NP | 5.34 | 170000 | 970000 | 10000 | 39000 | 13000 | 94000 | <2000 | -- | -- | -- | -- | -- | -- | -- |
| | 1/2/2003 | 8.87 | 2.34 | NP | 6.53 | 66000 | 270000 | 6100 | 15000 | 5400 | 37000 | <200 | -- | -- | -- | -- | -- | -- | -- |
| | 4/1/2003 | 8.87 | 3.17 | NP | 5.70 | 35000 | 3000000 | 8000 | 39000 | 37000 | 260000 | <2000 | -- | -- | -- | -- | -- | -- | -- |
| | 7/1/2003 | 8.87 | 3.55 | NP | 5.32 | 11000 | 38000 | 2100 | 990 | 2700 | 6500 | <100 | -- | -- | -- | -- | <25000 | -- | -- |
| | 10/2/2003 | 8.87 | 3.82 | NP | 5.05 | <50 | 100000 | 5600 | 6900 | 4700 | 18000 | <800 | -- | -- | -- | -- | <200000 | -- | -- |
| | 1/9/2004 | 8.87 | 2.80 | NP | 6.07 | 20000 | 170000 | 2800 | 3300 | 4700 | 16000 | <200 | -- | -- | -- | -- | <50000 | -- | -- |
| | 4/26/2004 | 8.87 | 3.40 | NP | 5.47 | 13000 | 97000 | 5900 | 9000 | 5100 | 23000 | <50 | -- | -- | -- | -- | <5000 | -- | -- |
| | 7/22/2004 | 8.87 | 3.54 | NP | 5.33 | 33000 | 110000 | 4100 | 5100 | 4000 | 16000 | <200 | -- | -- | -- | -- | <300000 | -- | -- |
| | 10/29/2004 | 8.87 | 3.03 | NP | 5.84 | 78000 | 100000 | 5200 | 6100 | 4200 | 15000 | <50 | -- | -- | -- | -- | <5000 | -- | -- |
| | 1/10/2005 | 8.87 | 2.35 | NP | 6.52 | 12000 | 71000 | 1600 | 3700 | 2100 | 9900 | <50 | -- | -- | -- | -- | <5000 | -- | -- |
| | 6/15/2005 | 8.87 | 2.47 | NP | 6.40 | 16000 | 130000 | 800 | 1800 | 2200 | 9300 | <50 | -- | -- | -- | -- | <5000 | -- | -- |
| | 9/27/2005 | 8.87 | 2.55 | NP | 6.32 | 2500 | 13000 | 82 | 120 | 430 | 990 | 0.56 | 1.8 | <0.50 | <0.50 | <10 | <250 | -- | -- |
| | 12/13/2005 | 8.87 | 3.28 | NP | 5.59 | 18000 | 68000 | 1500 | 1100 | 2200 | 7700 | <50 | -- | -- | -- | -- | <25000 | -- | -- |
| | 3/23/2006 | 8.87 | 2.87 | NP | 6.00 | 73000 | 41000 | 290 | 140 | 1500 | 2700 | <50 | -- | -- | -- | -- | <25000 | -- | -- |
| | 6/23/2006 | 8.87 | 3.15 | NP | 5.72 | 35000 | 50000 | 2200 | 1400 | 1900 | 5700 | <12 | -- | -- | -- | -- | <6200 | -- | -- |
| | 9/26/2006 | 8.87 | 3.08 | NP | 5.79 | 22000 | 130000 | 2200 | 1000 | 2900 | 8800 | <50 | -- | -- | -- | -- | <25000 | -- | -- |
| | 12/22/2006 | 8.87 | 2.90 | NP | 5.97 | 62000 | 90000 | 940 | 610 | 1900 | 4700 | <50 | -- | -- | -- | -- | <25000 | -- | -- |
| | 3/30/2007 | 8.87 | 3.26 | NP | 5.61 | 62000 | 210000 | 1100 | 560 | 3400 | 12000 | <10 | -- | -- | -- | -- | <5000 | -- | -- |
| | 6/28/2007 | 8.87 | 3.46 | NP | 5.41 | 71000 | 67000 | 2200 | 1300 | 2700 | 10000 | <25 | -- | -- | -- | -- | <12000 | -- | -- |
| | 9/25/2007 | 8.87 | 3.52 | NP | 5.35 | 58000 | 56000 | 2900 | 720 | 2400 | 9000 | <25 | -- | -- | -- | -- | <12000 | -- | -- |
| | 12/28/2007 | 8.87 | 3.27 | NP | 5.60 | 18000 | 78000 | 28000 | 2700 | 4000 | 8100 | 16000 | -- | -- | -- | -- | <12000 | -- | -- |
| | 3/22/2008 | 8.87 | 2.48 | NP | 6.39 | 68000 | 66000 | 380 | 150 | 1500 | 2400 | <25 | -- | -- | -- | -- | <12000 | -- | -- |
| | 6/23/2008 | 8.87 | 3.54 | NP | 5.33 | 68000 | 59000 | 1600 | 130 | 1800 | 4100 | 25 | -- | -- | -- | -- | <12000 | -- | -- |
| | 9/19/2008 | 8.87 | 4.06 | NP | 4.81 | 180000 | 65000 | 2000 | 230 | 2000 | 4500 | <12 | -- | -- | -- | -- | <6200 | -- | -- |
| | 12/31/2008 | 8.87 | 3.45 | NP | 5.42 | 68000 | 91000 | 2000 | 320 | 5300 | 13000 | <50 | -- | -- | -- | -- | <25000 | -- | -- |
| | 3/27/2009 | 8.87 | 3.09 | NP | 5.78 | 170000 | 150000 | 1300 | 240 | 2800 | 7200 | <50 | -- | -- | -- | -- | <25000 | -- | -- |
| | 5/28/2009 | 8.87 | 3.49 | NP | 5.38 | 78000 | 53000 | 1700 | 200 | 2300 | 5400 | <50 | -- | -- | -- | -- | <25000 | -- | -- |
| 9/17/2009 | 8.87 | 3.64 | NP | 5.23 | 250000 | 77000 | 2100 | 1400 | 2600 | 8500 | <12 | -- | -- | -- | -- | <6200 | -- | -- | |
| 12/17/2009 | 8.87 | 3.14 | NP | 5.73 | 30300 | 59100 | 1730 | 199 | 2260 | 5460 | 20.3 | -- | -- | -- | -- | <250 | -- | -- | |
| 3/29/2010 | 8.87 | 3.16 | NP | 5.71 | 106000 | 48400 | 1980 | 208 | 3070 | 8070 | 12.1 | -- | -- | -- | -- | <250 | -- | -- | |
| 6/30/2010 | 11.55 | 3.50 | NP | 8.05 | 170000 | 78700 | 2130 | 281 | 2860 | 8400 | 5.8 | -- | -- | -- | -- | <250 | -- | -- | |
| 7/6/2010 | 11.55 | 3.49 | NP | 8.06 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| 9/20/2010 | 11.55 | 3.75 | NP | 7.80 | 18800 | 64500 | 2300 | 170 | 2770 | 6260 | 19.3 | -- | -- | -- | -- | <250 | -- | -- | |
| 12/8/2010 | 11.55 | 8.42 | NP | 3.13 | 28700 | 78400 | 1300 | 1680 | 3490 | 20600 | 11.3 | -- | -- | -- | -- | <250 | -- | -- | |
| 3/14/2011 | 11.55 | 3.40 | NP | 8.15 | 93000 | 44600 | 912 | 338 | 728 | 3670 | 16.3 | -- | -- | -- | 134 | <250 | -- | -- | |
| 6/2/2011 | 11.55 | 2.76 | NP | 8.79 | 33700 | 56200 | 780 | 262 | 651 | 3890 | 6.7 | -- | -- | -- | 81.0 | <250 | -- | -- | |
| MW-7 | 5/27/1997 | 8.83 | 4.50 | NP | 4.33 | -- | 68 | ND | ND | ND | ND | ND | -- | -- | -- | -- | -- | -- | |
| | 6/1/1997 | 8.83 | 4.54 | NP | 4.29 | 69 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 7/15/1997 | 8.83 | 4.70 | NP | 4.13 | ND | ND | ND | ND | ND | ND | ND | -- | -- | -- | -- | -- | -- | |
| | 10/9/1997 | 8.83 | 4.30 | NP | 4.53 | 190 | ND | ND | ND | ND | ND | ND | -- | -- | -- | -- | -- | -- | |
| | 1/14/1998 | 8.83 | 2.88 | NP | 5.95 | 65 | ND | ND | ND | ND | ND | 36 | -- | -- | -- | -- | -- | -- | |
| | 4/1/1998 | 8.83 | 3.13 | NP | 5.70 | ND | ND | ND | ND | ND | ND | ND | -- | -- | -- | -- | -- | -- | |
| | 7/15/1998 | 8.83 | 4.45 | NP | 4.38 | 74 | ND | ND | ND | ND | ND | ND | -- | -- | -- | -- | -- | -- | |
| | 10/16/1998 | 8.83 | 3.45 | NP | 5.38 | ND | ND | ND | ND | ND | ND | ND | -- | -- | -- | -- | -- | -- | |
| | 1/25/1999 | 8.83 | 3.22 | NP | 5.61 | ND | ND | ND | ND | ND | ND | ND | -- | -- | -- | -- | -- | -- | |
| | 4/15/1999 | 8.83 | 3.11 | NP | 5.72 | ND | ND | ND | ND | ND | ND | ND | -- | -- | -- | -- | -- | -- | |
| | 7/14/1999 | 8.83 | 3.34 | NP | 5.49 | 69 | ND | ND | ND | ND | ND | ND | -- | -- | -- | -- | -- | -- | |
| | 10/21/1999 | 8.83 | 3.43 | NP | 5.40 | ND | ND | ND | ND | ND | ND | ND | -- | -- | -- | -- | -- | -- | |
| | 1/20/2000 | 8.83 | 3.29 | NP | 5.54 | ND | ND | ND | ND | ND | ND | 4.2 | -- | -- | -- | -- | -- | -- | |
| | 4/13/2000 | 8.83 | 3.39 | NP | 5.44 | ND | ND | ND | ND | ND | ND | ND | -- | -- | -- | -- | -- | -- | |
| | 7/14/2000 | 8.83 | 4.42 | NP | 4.41 | 68.0 | ND | ND | ND | ND | ND | 7.83 | -- | -- | -- | -- | -- | -- | |
| | 7/17/2001 | 8.83 | 5.06 | NP | 3.77 | ND | ND | ND | ND | ND | ND | ND | -- | -- | -- | -- | -- | -- | |
| | 10/1/2001 | 8.83 | 4.98 | NP | 3.85 | <51 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | -- | -- | -- | -- | -- | -- | |
| | 1/31/2002 | 8.83 | 3.88 | NP | 4.95 | 90 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <2.5 | -- | -- | -- | -- | -- | -- | |

TABLE 3
HISTORICAL GROUNDWATER GAUGING AND ANALYTICAL DATA
76 Station No. 5191/5043
449 HEGERBERGER 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) | GRO (ug/L) | Benzene (ug/L) | Toluene (ug/L) | Ethylbenzene (ug/L) | Total Xylenes (ug/L) | MTBE (ug/L) | DIPE (ug/L) | ETBE (ug/L) | TAME (ug/L) | TBA (ug/L) | Ethanol (ug/L) | 1,2-Dibromoethane (EDB) (ug/L) | 1,2-Dichloroethane (ug/L) |
| MW-7 | 4/18/2002 | 8.83 | 4.03 | NP | 4.80 | 78 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 5.7 | -- | -- | -- | -- | -- | -- |
| | 7/28/2002 | 8.83 | 3.59 | NP | 5.24 | <50 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | 3.9 | -- | -- | -- | -- | -- | -- | -- |
| | 10/9/2002 | 8.83 | 4.53 | NP | 4.30 | <96 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | 3.9 | -- | -- | -- | -- | -- | -- | -- |
| | 1/3/2003 | 8.83 | 3.36 | NP | 5.47 | 78 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | <2.0 | -- | -- | -- | -- | -- | -- | -- |
| | 4/1/2003 | 8.83 | 3.94 | NP | 4.89 | 67 | 71 | <0.50 | <0.50 | 0.71 | <1.0 | 3.4 | -- | -- | -- | -- | -- | -- | -- |
| | 7/1/2003 | 8.83 | 4.60 | NP | 4.23 | 68 | 64 | <0.50 | <0.50 | 0.77 | 2.0 | 35 | -- | -- | -- | -- | <500 | -- | -- |
| | 10/2/2003 | 8.83 | 5.46 | NP | 3.37 | 82 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | 4.9 | -- | -- | -- | -- | <500 | -- | -- |
| | 1/9/2004 | 8.83 | 3.55 | NP | 5.28 | 75 | 54 | <0.50 | <0.50 | <0.50 | <1.0 | 2.4 | -- | -- | -- | -- | <500 | -- | -- |
| | 4/26/2004 | 8.83 | 4.49 | NP | 4.34 | <50 | <50 | <0.50 | <0.50 | <0.50 | 1.5 | 2.3 | -- | -- | -- | -- | <50 | -- | -- |
| | 7/22/2004 | 8.83 | 4.93 | NP | 3.90 | <200 | 82 | 0.90 | 2.0 | 3.5 | 9.9 | 1.4 | -- | -- | -- | -- | <1000 | -- | -- |
| | 10/29/2004 | 8.83 | 3.71 | NP | 5.12 | 54 | 210 | 0.67 | 1.6 | 1.7 | 5.8 | <0.50 | -- | -- | -- | -- | <50 | -- | -- |
| | 1/10/2005 | 8.83 | 2.77 | NP | 6.06 | <50 | 74 | 0.51 | 2.2 | 1.7 | 7.0 | <0.50 | -- | -- | -- | -- | <50 | -- | -- |
| | 6/15/2005 | 8.83 | 3.40 | NP | 5.43 | <50 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | 0.88 | -- | -- | -- | -- | <50 | -- | -- |
| | 9/27/2005 | 8.83 | 3.44 | NP | 5.39 | <200 | <50 | 0.59 | 1.2 | <0.50 | <1.0 | 0.96 | <0.50 | <0.50 | <0.50 | <10 | <250 | -- | -- |
| | 12/13/2005 | 8.83 | 3.98 | NP | 4.85 | <200 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | 0.65 | -- | -- | -- | -- | <250 | -- | -- |
| | 3/23/2006 | 8.83 | 3.37 | NP | 5.46 | <200 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | -- | -- | -- | -- | <250 | -- | -- |
| | 6/23/2006 | 8.83 | 5.25 | NP | 3.58 | <200 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | -- | -- | -- | -- | <250 | -- | -- |
| | 9/26/2006 | 8.83 | 4.13 | NP | 4.70 | <50 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.77 | -- | -- | -- | -- | <250 | -- | -- |
| | 12/22/2006 | 8.83 | 3.63 | NP | 5.20 | 630 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- | -- | -- | -- | <250 | -- | -- |
| | 3/30/2007 | 8.83 | 4.31 | NP | 4.52 | 94 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- | -- | -- | -- | <250 | -- | -- |
| | 6/28/2007 | 8.83 | 4.62 | NP | 4.21 | <50 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.54 | -- | -- | -- | -- | <250 | -- | -- |
| | 9/25/2007 | 8.83 | 4.65 | NP | 4.18 | <50 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- | -- | -- | -- | <250 | -- | -- |
| | 12/28/2007 | 8.83 | 3.99 | NP | 4.84 | 75 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | -- | -- | -- | -- | <250 | -- | -- |
| | 3/22/2008 | 8.83 | 4.08 | NP | 4.75 | <50 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | -- | -- | -- | -- | <250 | -- | -- |
| | 6/23/2008 | 8.83 | 4.10 | NP | 4.73 | <50 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | -- | -- | -- | -- | <250 | -- | -- |
| | 9/19/2008 | 8.83 | 4.86 | NP | 3.97 | <50 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | -- | -- | -- | -- | <250 | -- | -- |
| | 12/31/2008 | 8.83 | 4.17 | NP | 4.66 | <50 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | -- | -- | -- | -- | <250 | -- | -- |
| | 3/27/2009 | 8.83 | 4.00 | NP | 4.83 | <50 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | -- | -- | -- | -- | <250 | -- | -- |
| | 5/28/2009 | 8.83 | 4.71 | NP | 4.12 | <50 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | -- | -- | -- | -- | <250 | -- | -- |
| | 9/17/2009 | 8.83 | 4.87 | NP | 3.96 | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS |
| 3/29/2010 | 8.83 | WI | WI | WI | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| 6/30/2010 | 11.64 | 4.45 | NP | 7.19 | 66.0 | <50.0 | <0.50 | <0.50 | <0.50 | <1.5 | <0.50 | -- | -- | -- | -- | <250 | -- | -- | |
| 7/6/2010 | 11.64 | 4.63 | NP | 7.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| 9/20/2010 | 11.64 | 4.85 | NP | 6.79 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| 12/8/2010 | 11.64 | 3.99 | NP | 7.65 | 57.7 | <50.0 | <0.50 | <0.50 | <0.50 | <1.5 | <0.50 | -- | -- | -- | -- | <250 | -- | -- | |
| 3/14/2011 | 11.64 | 3.81 | NP | 7.83 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| 6/2/2011 | 11.64 | 3.90 | NP | 7.74 | 63.0 | <50.0 | <0.50 | <0.50 | <0.50 | <1.5 | <0.50 | -- | -- | -- | <5.0 | <250 | -- | -- | |
| MW-8 | 5/27/1997 | 8.52 | 3.42 | NP | 5.10 | -- | 310 | 0.88 | 0.67 | 15 | 70 | ND | -- | -- | -- | -- | -- | -- | |
| | 6/1/1997 | 8.52 | 3.46 | NP | 5.06 | 320 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 7/15/1997 | 8.52 | 3.49 | NP | 5.03 | ND | ND | ND | ND | 2.7 | 3.8 | ND | -- | -- | -- | -- | -- | -- | |
| | 10/9/1997 | 8.52 | 3.73 | NP | 4.79 | 390 | 590 | 1.4 | ND | 32 | 4.1 | ND | -- | -- | -- | -- | -- | -- | |
| | 1/14/1998 | 8.52 | 1.92 | NP | 6.60 | 230 | ND | ND | ND | ND | ND | ND | -- | -- | -- | -- | -- | -- | |
| | 4/1/1998 | 8.52 | 2.38 | NP | 6.14 | 510 | ND | ND | ND | ND | ND | 4.7 | -- | -- | -- | -- | -- | -- | |
| | 7/15/1998 | 8.52 | 3.53 | NP | 4.99 | 140 | ND | ND | ND | 0.56 | 1.1 | ND | -- | -- | -- | -- | -- | -- | |
| | 10/16/1998 | 8.52 | 3.04 | NP | 5.48 | 170 | ND | ND | ND | ND | ND | ND | -- | -- | -- | -- | -- | -- | |
| | 1/25/1999 | 8.52 | 2.92 | NP | 5.60 | ND | ND | ND | ND | ND | ND | ND | -- | -- | -- | -- | -- | -- | |
| | 4/15/1999 | 8.52 | 2.40 | NP | 6.12 | 91 | ND | ND | ND | ND | ND | ND | -- | -- | -- | -- | -- | -- | |
| | 7/14/1999 | 8.52 | 3.03 | NP | 5.49 | 120 | ND | ND | ND | ND | ND | ND | -- | -- | -- | -- | -- | -- | |
| | 10/21/1999 | 8.52 | 3.11 | NP | 5.41 | 110 | ND | ND | ND | ND | ND | ND | -- | -- | -- | -- | -- | -- | |
| | 1/20/2000 | 8.52 | 3.06 | NP | 5.46 | 583 | ND | ND | ND | ND | ND | ND | -- | -- | -- | -- | -- | -- | |
| | 4/13/2000 | 8.52 | 2.84 | NP | 5.68 | 80 | ND | ND | ND | ND | ND | ND | -- | -- | -- | -- | -- | -- | |
| | 7/14/2000 | 8.52 | 3.39 | NP | 5.13 | 113 | ND | ND | ND | ND | ND | ND | -- | -- | -- | -- | -- | -- | |
| | 7/17/2001 | 8.52 | 3.46 | NP | 5.06 | ND | ND | ND | ND | ND | ND | ND | -- | -- | -- | -- | -- | -- | |
| | 10/1/2001 | 8.52 | 3.51 | NP | 5.01 | <50 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- | -- | -- | -- | -- | -- | |
| 1/31/2002 | 8.52 | 2.75 | NP | 5.77 | 260 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <2.5 | -- | -- | -- | -- | -- | -- | | |

TABLE 3
HISTORICAL GROUNDWATER GAUGING AND ANALYTICAL DATA
76 Station No. 5191/5043
449 HEGERBERGER 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) | GRO (ug/L) | Benzene (ug/L) | Toluene (ug/L) | Ethylbenzene (ug/L) | Total Xylenes (ug/L) | MTBE (ug/L) | DIPE (ug/L) | ETBE (ug/L) | TAME (ug/L) | TBA (ug/L) | Ethanol (ug/L) | 1,2-Dibromoethane (EDB) (ug/L) | 1,2-Dichloroethane (ug/L) | |
| MW-8 | 4/18/2002 | 8.52 | 2.98 | NP | 5.54 | 160 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <2.5 | -- | -- | -- | -- | -- | -- | -- | |
| | 7/28/2002 | 8.52 | 2.41 | NP | 6.11 | 140 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | <2.0 | -- | -- | -- | -- | -- | -- | -- | |
| | 10/9/2002 | 8.52 | 2.09 | NP | 6.43 | 120 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | <2.0 | -- | -- | -- | -- | -- | -- | -- | |
| | 1/2/2003 | 8.52 | 1.98 | NP | 6.54 | 210 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | <2.0 | -- | -- | -- | -- | -- | -- | -- | |
| | 4/1/2003 | 8.52 | 2.66 | NP | 5.86 | 220 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | <2.0 | -- | -- | -- | -- | -- | -- | -- | |
| | 7/1/2003 | 8.52 | 3.08 | NP | 5.44 | 170 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | <2.0 | -- | -- | -- | -- | <500 | -- | -- | |
| | 10/2/2003 | 8.52 | 3.89 | NP | 4.63 | 350 | 540 | 3.9 | 15 | 29 | 80 | <2.0 | -- | -- | -- | -- | <500 | -- | -- | |
| | 1/9/2004 | 8.52 | 2.38 | NP | 6.14 | 180 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | <2.0 | -- | -- | -- | -- | <500 | -- | -- | |
| | 4/26/2004 | 8.52 | 2.89 | NP | 5.63 | 100 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | -- | -- | -- | -- | <50 | -- | -- | |
| | 7/22/2004 | 8.52 | 3.25 | NP | 5.27 | 250 | <50 | <0.5 | <0.5 | <0.5 | <1 | <0.5 | -- | -- | -- | -- | <1000 | -- | -- | |
| | 10/29/2004 | 8.52 | 3.06 | NP | 5.46 | 120 | <50 | <0.50 | <0.50 | 0.82 | 2.5 | <0.50 | -- | -- | -- | -- | <50 | -- | -- | |
| | 1/10/2005 | 8.52 | 1.92 | NP | 6.60 | 140 | 58 | <0.50 | 0.61 | 1.2 | 4.0 | <0.50 | -- | -- | -- | -- | <50 | -- | -- | |
| | 6/15/2005 | 8.52 | 2.22 | NP | 6.30 | 140 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | -- | -- | -- | -- | <50 | -- | -- | |
| | 9/27/2005 | 8.52 | 2.43 | NP | 6.09 | <200 | <50 | <0.50 | <0.50 | 1.2 | <1.0 | <0.50 | <0.50 | <0.50 | <0.50 | <10 | <250 | -- | -- | |
| | 12/13/2005 | 8.52 | 2.89 | NP | 5.63 | <200 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | -- | -- | -- | -- | <250 | -- | -- | |
| | 3/23/2006 | 8.52 | 2.12 | NP | 6.40 | <200 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | -- | -- | -- | -- | <250 | -- | -- | |
| | 6/23/2006 | 8.52 | 2.65 | NP | 5.87 | <230 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | -- | -- | -- | -- | <250 | -- | -- | |
| | 9/26/2006 | 8.52 | 2.75 | NP | 5.77 | 110 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- | -- | -- | -- | <250 | -- | -- | |
| | 12/22/2006 | 8.52 | 2.58 | NP | 5.94 | 100 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- | -- | -- | -- | <250 | -- | -- | |
| | 3/30/2007 | 8.52 | 2.74 | NP | 5.78 | 120 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- | -- | -- | -- | <250 | -- | -- | |
| | 6/28/2007 | 8.52 | 2.90 | NP | 5.62 | 140 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- | -- | -- | -- | <250 | -- | -- | |
| | 9/25/2007 | 8.52 | 3.26 | NP | 5.26 | 110 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- | -- | -- | -- | <250 | -- | -- | |
| | 12/28/2007 | 8.52 | 2.64 | NP | 5.88 | 110 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | -- | -- | -- | -- | <250 | -- | -- | |
| | 3/22/2008 | 8.52 | 2.31 | NP | 6.21 | <50 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | -- | -- | -- | -- | <250 | -- | -- | |
| | 6/23/2008 | 8.52 | 3.13 | NP | 5.39 | <58 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | -- | -- | -- | -- | <250 | -- | -- | |
| | 9/19/2008 | 8.52 | 3.72 | NP | 4.80 | 79 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | -- | -- | -- | -- | <250 | -- | -- | |
| | 12/31/2008 | 8.52 | 2.98 | NP | 5.54 | 110 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | -- | -- | -- | -- | <250 | -- | -- | |
| | 3/27/2009 | 8.52 | 2.49 | NP | 6.03 | 89 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | -- | -- | -- | -- | <250 | -- | -- | |
| | 5/28/2009 | 8.52 | 3.12 | NP | 5.40 | 91 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | -- | -- | -- | -- | <250 | -- | -- | |
| | 9/17/2009 | 8.52 | 3.63 | NP | 4.89 | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | |
| 3/29/2010 | 8.52 | WI | WI | WI | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | |
| 6/30/2010 | 11.32 | 2.60 | NP | 8.72 | 182 | <50.0 | <0.50 | <0.50 | <0.50 | <1.5 | <0.50 | -- | -- | -- | -- | <250 | -- | -- | | |
| 7/6/2010 | 11.32 | 3.03 | NP | 8.29 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | |
| 9/20/2010 | 11.32 | 3.33 | NP | 7.99 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | |
| 12/8/2010 | 11.32 | 2.82 | NP | 8.50 | 116 | <50.0 | <0.50 | <0.50 | <0.50 | <1.5 | <0.50 | -- | -- | -- | -- | <250 | -- | -- | | |
| 3/14/2011 | 11.32 | 3.84 | NP | 7.48 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | |
| 6/2/2011 | 11.32 | 2.77 | NP | 8.55 | 168 | <50.0 | <0.50 | <0.50 | <0.50 | <1.5 | <0.50 | -- | -- | -- | <5.0 | <250 | -- | -- | | |
| MW-9 | 2/21/1995 | 8.29 | 1.98 | NP | 6.31 | 71 | 70 | ND | ND | ND | ND | -- | -- | -- | -- | -- | -- | -- | | |
| | 5/18/1995 | 8.29 | 3.47 | NP | 4.82 | ND | 52 | ND | 1.1 | ND | 1.9 | -- | -- | -- | -- | -- | -- | -- | | |
| | 8/17/1995 | 8.29 | 1.49 | NP | 6.80 | ND | ND | ND | ND | ND | ND | -- | -- | -- | -- | -- | -- | -- | | |
| | 7/26/1996 | 8.29 | 0.28 | NP | 8.01 | 98 | ND | ND | ND | ND | ND | ND | -- | -- | -- | -- | -- | -- | | |
| | 10/28/1996 | 8.29 | 1.15 | NP | 7.14 | 99 | ND | ND | ND | ND | ND | 7.6 | -- | -- | -- | -- | -- | -- | | |
| | 1/29/1997 | 8.29 | 1.05 | NP | 7.24 | 54 | ND | ND | ND | ND | ND | 5.4 | -- | -- | -- | -- | -- | -- | | |
| | 4/15/1997 | 8.29 | 1.88 | NP | 6.41 | 94 | ND | ND | ND | ND | ND | 5.4 | -- | -- | -- | -- | -- | -- | | |
| | 5/27/1997 | 8.29 | 1.05 | NP | 7.24 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | |
| | 7/15/1997 | 8.29 | 1.90 | NP | 6.39 | ND | ND | ND | ND | ND | ND | ND | -- | -- | -- | -- | -- | -- | | |
| | 10/9/1997 | 8.29 | 1.76 | NP | 6.53 | 160 | ND | ND | ND | ND | ND | ND | -- | -- | -- | -- | -- | -- | | |
| | 1/14/1998 | 8.29 | 1.26 | NP | 7.03 | 110 | ND | ND | ND | ND | ND | 3.0 | -- | -- | -- | -- | -- | -- | | |
| | 4/1/1998 | 8.29 | 0.85 | NP | 7.44 | 110 | ND | ND | ND | ND | ND | ND | -- | -- | -- | -- | -- | -- | | |
| | 7/15/1998 | 8.29 | 1.52 | NP | 6.77 | 200 | ND | ND | ND | ND | ND | ND | -- | -- | -- | -- | -- | -- | | |
| | 10/16/1998 | 8.29 | 0.81 | NP | 7.48 | ND | ND | ND | ND | ND | ND | ND | -- | -- | -- | -- | -- | -- | | |
| | 1/25/1999 | 8.29 | 0.92 | NP | 7.37 | ND | ND | ND | ND | ND | ND | ND | -- | -- | -- | -- | -- | -- | | |
| | 4/15/1999 | 8.29 | 0.90 | NP | 7.39 | ND | 75 | 21 | ND | ND | 1.1 | 680 | -- | -- | -- | -- | -- | -- | | |
| | 7/14/1999 | 8.29 | 1.04 | NP | 7.25 | 140 | ND | 1.9 | ND | ND | ND | 260 | -- | -- | -- | -- | -- | -- | | |
| 10/21/1999 | 8.29 | 1.23 | NP | 7.06 | 210 | ND | ND | ND | ND | ND | 170 | -- | -- | -- | -- | -- | -- | | | |

TABLE 3
HISTORICAL GROUNDWATER GAUGING AND ANALYTICAL DATA
76 Station No. 5191/5043
449 HEGERBERGER 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) | GRO (ug/L) | Benzene (ug/L) | Toluene (ug/L) | Ethylbenzene (ug/L) | Total Xylenes (ug/L) | MTBE (ug/L) | DIPE (ug/L) | ETBE (ug/L) | TAME (ug/L) | TBA (ug/L) | Ethanol (ug/L) | 1,2-Dibromoethane (EDB) (ug/L) | 1,2-Dichloroethane (ug/L) |
| MW-9 | 1/20/2000 | 8.29 | 1.18 | NP | 7.11 | 519 | ND | 1.1 | ND | ND | ND | 35 | -- | -- | -- | -- | -- | -- | -- |
| | 4/13/2000 | 8.29 | 1.08 | NP | 7.21 | 81 | 160 | 0.64 | ND | ND | ND | 53 | -- | -- | -- | -- | -- | -- | -- |
| | 7/14/2000 | 8.29 | 1.43 | NP | 6.86 | 107 | ND | ND | ND | ND | ND | 20.2 | -- | -- | -- | -- | -- | -- | -- |
| | 10/26/2000 | 8.29 | 1.38 | NP | 6.91 | 240 | 240 | 2.9 | ND | ND | ND | 56 | -- | -- | -- | -- | -- | -- | -- |
| | 1/3/2001 | 8.29 | 1.66 | NP | 6.63 | 164 | 166 | 0.763 | 0.776 | ND | 1.28 | 50.2 | -- | -- | -- | -- | -- | -- | -- |
| | 4/4/2001 | 8.29 | 1.27 | NP | 7.02 | 240 | 296 | 0.738 | ND | ND | 0.907 | 135 | -- | -- | -- | -- | -- | -- | -- |
| | 7/17/2001 | 8.29 | 1.38 | NP | 6.91 | ND | ND | ND | ND | ND | ND | 13 | -- | -- | -- | -- | -- | -- | -- |
| | 10/1/2001 | 8.29 | 1.93 | NP | 6.36 | <52 | 51 | <0.50 | <0.50 | <0.50 | <0.50 | 5.0 | -- | -- | -- | -- | -- | -- | -- |
| | 1/31/2002 | 8.29 | 2.08 | NP | 6.21 | 200 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | 5.8 | -- | -- | -- | -- | -- | -- | -- |
| | 4/18/2002 | 8.29 | 1.76 | NP | 6.53 | <50 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | 5.1 | -- | -- | -- | -- | -- | -- | -- |
| | 7/28/2002 | 8.29 | 1.57 | NP | 6.72 | <50 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | 3.5 | -- | -- | -- | -- | -- | -- | -- |
| | 10/9/2002 | 8.29 | 1.45 | NP | 6.84 | 100 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | 17 | -- | -- | -- | -- | -- | -- | -- |
| | 1/2/2003 | 8.29 | 1.18 | NP | 7.11 | <50 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | 8.6 | -- | -- | -- | -- | -- | -- | -- |
| | 4/1/2003 | 8.29 | 2.04 | NP | 6.25 | 56 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | 9.4 | -- | -- | -- | -- | -- | -- | -- |
| | 7/1/2003 | 8.29 | 2.80 | NP | 5.49 | <50 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | 3.2 | -- | -- | -- | -- | <500 | -- | -- |
| | 10/2/2003 | 8.29 | 2.70 | NP | 5.59 | <50 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | <2.0 | -- | -- | -- | -- | <500 | -- | -- |
| | 1/9/2004 | 8.29 | 1.90 | NP | 6.39 | 91 | 74 | <0.50 | 0.98 | 2.3 | 6.2 | <2.0 | -- | -- | -- | -- | <500 | -- | -- |
| | 4/26/2004 | 8.29 | 1.62 | NP | 6.67 | <50 | 51 | <0.50 | <0.50 | <0.50 | <1.0 | 0.51 | -- | -- | -- | -- | <50 | -- | -- |
| | 7/22/2004 | 8.29 | 1.88 | NP | 6.41 | <200 | <50 | <0.5 | <0.5 | <0.5 | <1 | 0.78 | -- | -- | -- | -- | <1000 | -- | -- |
| | 10/29/2004 | 8.29 | 1.28 | NP | 7.01 | 76 | <50 | <0.50 | <0.50 | <0.50 | 1.0 | <0.50 | -- | -- | -- | -- | <50 | -- | -- |
| | 1/10/2005 | 8.29 | 0.07 | NP | 8.22 | 77 | 93 | 0.60 | 2.3 | 2.4 | 9.0 | <0.50 | -- | -- | -- | -- | <50 | -- | -- |
| | 6/15/2005 | 8.29 | 1.70 | NP | 6.59 | 67 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | 6.6 | -- | -- | -- | -- | <50 | -- | -- |
| | 9/27/2005 | 8.29 | 1.98 | NP | 6.31 | <200 | <50 | <0.50 | 0.73 | <0.50 | <1.0 | 2.3 | <0.50 | <0.50 | <0.50 | <10 | <250 | -- | -- |
| | 12/13/2005 | 8.29 | 2.26 | NP | 6.03 | <200 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | 2.9 | -- | -- | -- | -- | <250 | -- | -- |
| | 3/23/2006 | 8.29 | 1.32 | NP | 6.97 | <200 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | 2.7 | -- | -- | -- | -- | <250 | -- | -- |
| | 6/23/2006 | 8.29 | 1.98 | NP | 6.31 | <200 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | 1.9 | -- | -- | -- | -- | <250 | -- | -- |
| | 9/26/2006 | 8.29 | 2.52 | NP | 5.77 | <50 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- | -- | -- | -- | <250 | -- | -- |
| | 12/22/2006 | 8.29 | 1.98 | NP | 6.31 | 150 | <50 | <0.50 | 0.57 | 1.8 | 4.6 | 1.6 | -- | -- | -- | -- | <250 | -- | -- |
| | 3/30/2007 | 8.29 | 2.01 | NP | 6.28 | 72 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | 3.4 | -- | -- | -- | -- | <250 | -- | -- |
| | 6/28/2007 | 8.29 | 1.90 | NP | 6.39 | 1000 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | 4.9 | -- | -- | -- | -- | <250 | -- | -- |
| | 9/25/2007 | 8.29 | 1.57 | NP | 6.72 | 100 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- | -- | -- | -- | <250 | -- | -- |
| | 12/28/2007 | 8.29 | 1.98 | NP | 6.31 | 56 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | -- | -- | -- | -- | <250 | -- | -- |
| 3/22/2008 | 8.29 | 0.80 | NP | 7.49 | <50 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | 0.61 | -- | -- | -- | -- | <250 | -- | -- | |
| 6/23/2008 | 8.29 | 1.80 | NP | 6.49 | <50 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | -- | -- | -- | -- | <250 | -- | -- | |
| 9/19/2008 | 8.29 | 2.43 | NP | 5.86 | 56 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | 3.9 | -- | -- | -- | -- | <250 | -- | -- | |
| 12/31/2008 | 8.29 | 2.66 | NP | 5.63 | <50 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | -- | -- | -- | -- | <250 | -- | -- | |
| 3/27/2009 | 8.29 | 2.01 | NP | 6.28 | <50 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | -- | -- | -- | -- | <250 | -- | -- | |
| 5/28/2009 | 8.29 | 2.20 | NP | 6.09 | <50 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | -- | -- | -- | -- | <250 | -- | -- | |
| 9/17/2009 | 8.29 | 1.83 | NP | 6.46 | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | |
| 12/17/2009 | 8.29 | 1.52 | NP | 6.77 | 105 | <50.0 | <0.50 | <0.50 | <0.50 | <1.5 | <0.50 | -- | -- | -- | -- | <250 | -- | -- | |
| 3/29/2010 | 8.29 | 2.21 | NP | 6.08 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| 6/30/2010 | 10.94 | 2.32 | NP | 8.62 | 95.0 | <50.0 | <0.50 | <0.50 | <0.50 | <1.5 | 0.85 | -- | -- | -- | -- | <250 | -- | -- | |
| 7/6/2010 | 10.94 | 2.02 | NP | 8.92 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| 9/20/2010 | 10.94 | 2.03 | NP | 8.91 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| 12/8/2010 | 10.94 | 1.77 | NP | 9.17 | <50.0 | <50.0 | <0.50 | <0.50 | <0.50 | <1.5 | <0.50 | -- | -- | -- | -- | <250 | -- | -- | |
| 3/14/2011 | 10.94 | 2.24 | NP | 8.70 | <50.0 | <50.0 | <0.50 | <0.50 | <0.50 | <1.5 | <0.50 | -- | -- | -- | <5.0 | <250 | -- | -- | |
| 6/2/2011 | 10.94 | 2.24 | NP | 8.70 | <50.0 | <50.0 | <0.50 | <0.50 | <0.50 | <1.5 | <0.50 | -- | -- | -- | <5.0 | <250 | -- | -- | |
| MW-10 | 2/21/1995 | 8.62 | 4.69 | NP | 3.93 | 270 | 1500 | 250 | 26 | 9.1 | 160 | -- | -- | -- | -- | -- | -- | -- | |
| | 5/18/1995 | 8.62 | 4.92 | NP | 3.70 | 75 | 810 | 520 | ND | 18 | 23 | -- | -- | -- | -- | -- | -- | -- | |
| | 8/17/1995 | 8.62 | 4.05 | NP | 4.57 | ND | 67 | 25 | ND | 2.4 | ND | -- | -- | -- | -- | -- | -- | -- | |
| | 7/26/1996 | 8.62 | 4.08 | NP | 4.54 | ND | ND | 3.7 | ND | ND | ND | ND | -- | -- | -- | -- | -- | -- | -- |
| | 10/28/1996 | 8.62 | 4.09 | NP | 4.53 | ND | ND | 1.1 | ND | ND | ND | ND | -- | -- | -- | -- | -- | -- | -- |
| | 1/29/1997 | 8.62 | 2.94 | NP | 5.68 | ND | 210 | 41 | 0.67 | 7.2 | 4.8 | 11 | -- | -- | -- | -- | -- | -- | -- |
| 4/15/1997 | 8.62 | 4.07 | NP | 4.55 | ND | 110 | 12 | ND | 0.77 | ND | 9.7 | -- | -- | -- | -- | -- | -- | -- | |

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



| Well I.D. | Date | GROUNDWATER GAUGING DATA | | | | GROUNDWATER ANALYTICAL DATA | | | | | | | | | | | | | |
|-----------|-----------|--------------------------|---------------------|----------------------|-----------------------|-----------------------------|------------|----------------|----------------|---------------------|----------------------|-------------|-------------|-------------|-------------|------------|----------------|--------------------------------|---------------------------|
| | | TOC Elevation (ft) | Depth to Water (ft) | LNAPL Thickness (ft) | Water Elevation* (ft) | DRO (ug/L) | GRO (ug/L) | Benzene (ug/L) | Toluene (ug/L) | Ethylbenzene (ug/L) | Total Xylenes (ug/L) | MTBE (ug/L) | DIPE (ug/L) | ETBE (ug/L) | TAME (ug/L) | TBA (ug/L) | Ethanol (ug/L) | 1,2-Dibromoethane (EDB) (ug/L) | 1,2-Dichloroethane (ug/L) |
| MW-10 | 9/20/2010 | 10.97 | 3.85 | NP | 7.12 | <50.0 | <50.0 | <0.50 | <0.50 | <0.50 | <1.5 | <0.50 | -- | -- | -- | -- | <250 | -- | -- |
| | 12/8/2010 | 10.97 | 3.63 | NP | 7.34 | <50.0 | <50.0 | 1.8 | <0.50 | <0.50 | <1.5 | <0.50 | -- | -- | -- | -- | <250 | -- | -- |
| | 3/14/2011 | 10.97 | 3.46 | NP | 7.51 | 63.3 | <50.0 | 1.1 | <0.50 | <0.50 | <1.5 | <0.50 | -- | -- | -- | <5.0 | <250 | -- | -- |
| | 6/2/2011 | 10.97 | 3.92 | NP | 7.05 | <50.0 | 58.7 | 4.8 | 4.2 | 0.96 | 5.1 | <0.50 | -- | -- | -- | <5.0 | <250 | -- | -- |
| MW-11 | 7/6/2010 | 10.53 | 2.44 | NP | 8.09 | 226 | 99.2 | <0.50 | <0.50 | <0.50 | <1.5 | 165 | <0.50 | <0.50 | <0.50 | 174 | <250 | <1.0 | <1.0 |
| | 9/20/2010 | 10.53 | 2.80 | NP | 7.73 | <50.0 | 76.4 | <0.50 | <0.50 | <0.50 | <1.5 | 82.7 | -- | -- | -- | -- | <250 | -- | -- |
| | 12/8/2010 | 10.53 | 1.90 | NP | 8.63 | 52.7 | <50.0 | <0.50 | <0.50 | <0.50 | <1.5 | 59.1 | -- | -- | -- | -- | <250 | -- | -- |
| | 3/14/2011 | 10.53 | 1.89 | NP | 8.64 | 67.8 | <50.0 | <0.50 | <0.50 | <0.50 | <1.5 | 44.0 | -- | -- | -- | <5.0 | <250 | -- | -- |
| | 6/2/2011 | 10.53 | 1.75 | NP | 8.78 | 69.0 | <50.0 | <0.50 | 0.61 | <0.50 | <1.5 | 24.9 | -- | -- | -- | 7.1 | <250 | -- | -- |
| MW-12 | 7/6/2010 | 11.01 | 4.00 | NP | 7.01 | 990 | 20300 | 1030 | 955 | 311 | 2450 | 1650 | <0.50 | <0.50 | 1.0 | 1430 | <250 | <1.0 | <1.0 |
| | 9/20/2010 | 11.01 | 4.18 | NP | 6.83 | 5220 | 73700 | 6020 | 6390 | 2970 | 18300 | 894 | -- | -- | -- | -- | <250 | -- | -- |
| | 12/8/2010 | 11.01 | 3.92 | NP | 7.09 | 428 | 3350 | 249 | 117 | 89.8 | 558 | 1470 | -- | -- | -- | -- | <2500 | -- | -- |
| | 3/14/2011 | 11.01 | 3.70 | NP | 7.31 | 283 | 2420 | 287 | 80.9 | 49.1 | 243 | 1020 | -- | -- | -- | 69.6 | <250 | -- | -- |
| | 6/2/2011 | 11.01 | 4.40 | NP | 6.61 | 1330 | 12200 | 688 | 70.5 | 225 | 619 | 824 | -- | -- | -- | 110 | <250 | -- | -- |
| MW-12A | 7/6/2010 | 11.29 | 4.22 | NP | 7.07 | 89.3 | 664 | 18.3 | 0.78 | 2.3 | 50.2 | 14.3 | <0.50 | <0.50 | <0.50 | 11.9 | <250 | <1.0 | <1.0 |
| | 9/20/2010 | 11.29 | 4.39 | NP | 6.90 | <50.0 | <50.0 | <0.50 | <0.50 | <0.50 | <1.5 | 8.5 | -- | -- | -- | -- | <250 | -- | -- |
| | 12/8/2010 | 11.29 | 4.00 | NP | 7.29 | 76.4 | <50.0 | <0.50 | <0.50 | <0.50 | <1.5 | 9.4 | -- | -- | -- | -- | <250 | -- | -- |
| | 3/14/2011 | 11.29 | 3.81 | NP | 7.48 | 61.5 | <50.0 | <0.50 | <0.50 | <0.50 | <1.5 | <0.50 | -- | -- | -- | <5.0 | <250 | -- | -- |
| | 6/2/2011 | 11.29 | 4.20 | NP | 7.09 | <50.0 | <50.0 | <0.50 | <0.50 | <0.50 | <1.5 | <0.50 | -- | -- | -- | <5.0 | <250 | -- | -- |
| MW-13 | 7/6/2010 | 11.08 | 4.26 | NP | 6.82 | 469 | 122 | <0.50 | <0.50 | <0.50 | <1.5 | 217 | <0.50 | <0.50 | <0.50 | 199 | <250 | <1.0 | <1.0 |
| | 9/20/2010 | 11.08 | 4.81 | NP | 6.27 | <50.0 | 250 | <0.50 | <0.50 | <0.50 | <1.5 | 272 | -- | -- | -- | -- | <250 | -- | -- |
| | 12/8/2010 | 11.08 | 5.02 | NP | 6.06 | 97.0 | 177 | <0.50 | <0.50 | <0.50 | <1.5 | 390 | -- | -- | -- | -- | <250 | -- | -- |
| | 3/14/2011 | 11.08 | 4.32 | NP | 6.76 | 162 | 127 | <0.50 | <0.50 | <0.50 | <1.5 | 241 | -- | -- | -- | 125 | <250 | -- | -- |
| | 6/2/2011 | 11.08 | 3.98 | NP | 7.10 | 89.9 | 260 | <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 | 51600 | 2750 | 67.9 | 1790 | 13400 | 1.9 | -- | -- | -- | 27.2 | <250 | -- | -- |
| MW-15 | 6/2/2011 | 11.11 | 2.50 | NP | 8.61 | 124 | 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 | 1420 | 79.4 | <0.50 | 4.2 | <1.5 | 1200 | -- | -- | -- | 257 | <250 | -- | -- |
| MW-17 | 6/2/2011 | 11.52 | 5.78 | NP | 5.74 | 687 | 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)
NG - Not gauged
WD - Well Destroyed
WI - Well Inaccessible
WO - Well Obstruction
NSVD - Not surveyed
-- - No information available

Analytical Notes:

-- - No information available
< - Below laboratory's indicated reporting limit
LPH - Liquid Phase Hydrocarbons
ND - Not detected, and detection limit is not known
NS - Well not sampled.
ug/L - micrograms/liter
WD - Well Destroyed
WI - Well Inaccessible
WO - Well Obstruction
DRO- diesel range organics
TPHg- Total petroleum hydrocarbons as gasoline
MTBE- Methyl tertiary-butyl ether
TBA- Tertiary-butyl alcohol
DIPE- Di-isopropyl ether
ETBE- Ethyl tertiary-butyl ether
TAME- Tertiary-amyl methyl ether

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



| Well I.D. | Date | GROUNDWATER ANALYTICAL DATA | | | | | | | | | | | | | | | | | | | |
|-----------|-----------|-----------------------------|--------------------------|-------------------------|------------------------|---------------------------|----------------------------------|-------------------------|-------------------------------|-----------------|------------------------|----------------------|----------------------|---------------------|-----------------------------|----------------------|---------------------------|----------------|----------------|----------------------------|------------------------|
| | | Acetone (ug/L) | Antimony SW6010 D (ug/L) | Arsenic SW6010 D (ug/L) | Barium SW6010 D (ug/L) | Beryllium SW6010 D (ug/L) | Biochemical Oxygen Demand (ug/L) | Cadmium SW6010 D (ug/L) | Chemical Oxygen Demand (ug/L) | Chloride (ug/L) | Cobalt SW6010 D (ug/L) | Iron SW6010 D (ug/L) | Iron SW6010 T (ug/L) | Iron, Ferric (ug/L) | Iron, Ferrous A3500D (ug/L) | Lead SW6010 D (ug/L) | Manganese SW6010 D (ug/L) | Mercury (ug/L) | Methane (ug/L) | Molybdenum SW6010 D (ug/L) | Nickel SW6010 D (ug/L) |
| MW-13 | 7/6/2010 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 92600 | 92600 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 9/20/2010 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 59500 | 59500 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/8/2010 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 3/14/2011 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 44600 | 44600 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 6/2/2011 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 36700 | 36700 | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-14 | 6/2/2011 | -- | -- | -- | -- | -- | -- | -- | -- | -- | 47500 | 47500 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-15 | 6/2/2011 | -- | -- | -- | -- | -- | -- | -- | -- | -- | 11700 | 11700 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-16 | 6/2/2011 | -- | -- | -- | -- | -- | -- | -- | -- | -- | 34200 | 34200 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-17 | 6/2/2011 | -- | -- | -- | -- | -- | -- | -- | -- | -- | 109000 | 109000 | -- | -- | -- | -- | -- | -- | -- | -- | -- |

Analytical Notes:
 -- - No information available
 < - Below laboratory's indicated reporting limit
 LPH - Liquid Phase Hydrocarbons
 NS - Well not sampled.
 ug/L - micrograms/liter

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



| Well I.D. | Date | GROUNDWATER ANALYTICAL DATA | | | | | | | | | | | |
|-----------|------------|-----------------------------|-------------------------------|----------------------------|-------------------------------|-----------------------|--------------------------|------------------------|---------------------|-----------------------|--------------------------|--------------------------|----------------------|
| | | Nitrate as N (ug/L) | Nitrite as N E353/E351 (ug/L) | Nitrite as N SM4500 (ug/L) | Nitrogen, NO2 plus NO3 (ug/L) | Oil and Grease (ug/L) | Selenium SW6010 D (ug/L) | Silver SW6010 D (ug/L) | Sulfate E300 (ug/L) | Sulfate E300.1 (mg/L) | Thallium SW6010 D (ug/L) | Vanadium SW6010 D (ug/L) | Zinc SW6010 D (ug/L) |
| MW-3 | 12/17/2009 | <50.0 | <50.0 | -- | <50.0 | -- | -- | -- | -- | <0.5 | -- | -- | -- |
| | 3/29/2010 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 6/30/2010 | <50.0 | -- | 95.0 | 75.7 | -- | -- | -- | <5000 | -- | -- | -- | -- |
| | 7/6/2010 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 9/20/2010 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/8/2010 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 3/14/2011 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 6/2/2011 | <50.0 | -- | <10.0 | 52.5 | -- | -- | -- | <5000 | -- | -- | -- | -- |
| MW-6 | 9/17/2009 | <0.44 | -- | -- | -- | -- | -- | -- | <1.0 | <0.0010 | -- | -- | -- |
| | 12/17/2009 | <50.0 | <50.0 | -- | <50.0 | -- | -- | -- | -- | <0.5 | -- | -- | -- |
| | 3/29/2010 | <50.0 | -- | 41.3 | 54.9 | -- | -- | -- | <1000 | -- | -- | -- | -- |
| | 6/30/2010 | <50.0 | -- | 57.9 | 69.3 | -- | -- | -- | <5000 | -- | -- | -- | -- |
| | 7/6/2010 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 9/20/2010 | <50.0 | -- | <10.0 | 52.1 | -- | -- | -- | <1000 | -- | -- | -- | -- |
| | 12/8/2010 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 3/14/2011 | 50.1 | -- | <10.0 | 54.2 | -- | <10.0 | <10.0 | 35400 | -- | <20.0 | <50.0 | <40.0 |
| 6/2/2011 | <50.0 | -- | <10.0 | 50.5 | -- | <10.0 | <10.0 | 38900 | -- | <20.0 | <50.0 | <40.0 | |
| MW-7 | 6/30/2010 | <50.0 | -- | 73.9 | 73.6 | -- | -- | -- | 191000 | -- | -- | -- | -- |
| | 7/6/2010 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 9/20/2010 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/8/2010 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 3/14/2011 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 6/2/2011 | 233 | -- | <10.0 | 239 | -- | -- | -- | 48900 | -- | -- | -- | -- |
| MW-8 | 6/30/2010 | <50.0 | -- | 68.2 | 59.7 | -- | -- | -- | 2360000 | -- | -- | -- | -- |
| | 7/6/2010 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 9/20/2010 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/8/2010 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 3/14/2011 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 6/2/2011 | 60.9 | -- | <10.0 | 60.9 | -- | -- | -- | 2830000 | -- | -- | -- | -- |
| MW-9 | 12/17/2009 | <50.0 | <50.0 | -- | <50.0 | -- | -- | -- | -- | 11 | -- | -- | -- |
| | 3/29/2010 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 6/30/2010 | <50.0 | -- | 14.9 | <50.0 | -- | -- | -- | 19000 | -- | -- | -- | -- |
| | 7/6/2010 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 9/20/2010 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/8/2010 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 3/14/2011 | <50.0 | -- | <10.0 | <50.0 | -- | <10.0 | <10.0 | 8980 | -- | <20.0 | <50.0 | <40.0 |
| | 6/2/2011 | <50.0 | -- | <10.0 | <50.0 | -- | <10.0 | <10.0 | 18600 | -- | <20.0 | <50.0 | <40.0 |
| MW-10 | 9/17/2009 | 12 | -- | -- | -- | -- | -- | -- | 84 | 0.084 | -- | -- | -- |
| | 12/17/2009 | 1970 | 60.3 | -- | 2030 | -- | -- | -- | -- | 86 | -- | -- | -- |
| | 3/29/2010 | 1960 | -- | 18.7 | 1970 | -- | -- | -- | 73600 | -- | -- | -- | -- |
| | 6/30/2010 | 2120 | -- | 68.1 | 2190 | -- | -- | -- | 70800 | -- | -- | -- | -- |
| | 7/6/2010 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 9/20/2010 | 2690 | -- | 68.2 | 2750 | -- | -- | -- | 82000 | -- | -- | -- | -- |
| | 12/8/2010 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 3/14/2011 | -- | -- | -- | 2350 | -- | -- | -- | 68600 | -- | -- | -- | -- |
| | 6/2/2011 | 1290 | -- | 49.3 | 1340 | -- | -- | -- | 71700 | -- | -- | -- | -- |
| 7/6/2010 | <50.0 | -- | 31.0 | 66.9 | -- | -- | -- | 82100 | -- | -- | -- | -- | |

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



| Well I.D. | Date | GROUNDWATER ANALYTICAL DATA | | | | | | | | | | | |
|-----------|-----------|-----------------------------|-------------------------------------|-------------------------------|----------------------------------|--------------------------|--------------------------------|---------------------------|------------------------|--------------------------|--------------------------------|--------------------------------|-------------------------|
| | | Nitrate as N (ug/L) | Nitrite as N E353/E351 (ug/L) | Nitrite as N SM4500 (ug/L) | Nitrogen, NO2 plus NO3 (ug/L) | Oil and Grease (ug/L) | Selenium SW6010 D (ug/L) | Silver SW6010 D (ug/L) | Sulfate E300 (ug/L) | Sulfate E300.1 (mg/L) | Thallium SW6010 D (ug/L) | Vanadium SW6010 D (ug/L) | Zinc SW6010 D (ug/L) |
| MW-11 | 9/20/2010 | 167 | -- | <10.0 | 172 | -- | -- | -- | 58300 | -- | -- | -- | -- |
| | 12/8/2010 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 3/14/2011 | -- | -- | -- | <50.0 | -- | -- | -- | 59900 | -- | -- | -- | -- |
| | 6/2/2011 | 110 | -- | <10.0 | 115 | -- | -- | -- | 62900 | -- | -- | -- | -- |
| MW-12 | 7/6/2010 | <50.0 | -- | 60.5 | <50.0 | -- | -- | -- | 3030000 | -- | -- | -- | -- |
| | 9/20/2010 | 72.3 | -- | <10.0 | 75.2 | -- | -- | -- | 1970000 | -- | -- | -- | -- |
| | 12/8/2010 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 3/14/2011 | <50.0 | -- | 60.6 | 54.4 | -- | <10.0 | <10.0 | 2500000 | -- | <20.0 | <50.0 | <40.0 |
| 6/2/2011 | <50.0 | -- | <10.0 | 58.0 | -- | <10.0 | <10.0 | 2330000 | -- | <20.0 | <50.0 | <40.0 | |
| MW-12A | 7/6/2010 | 3680 | -- | 164 | 3840 | -- | -- | -- | 100000 | -- | -- | -- | -- |
| | 9/20/2010 | 4680 | -- | 10.2 | 4690 | -- | -- | -- | 82500 | -- | -- | -- | -- |
| | 12/8/2010 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 3/14/2011 | -- | -- | -- | 4790 | -- | -- | -- | 81000 | -- | -- | -- | -- |
| 6/2/2011 | 4710 | -- | <10.0 | 4720 | -- | -- | -- | 101000 | -- | -- | -- | -- | |
| MW-13 | 7/6/2010 | <50.0 | -- | 64.9 | 70.4 | -- | -- | -- | 450000 | -- | -- | -- | -- |
| | 9/20/2010 | <50.0 | -- | <10.0 | <50.0 | -- | -- | -- | 241000 | -- | -- | -- | -- |
| | 12/8/2010 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 3/14/2011 | -- | -- | -- | <50.0 | -- | -- | -- | 375000 | -- | -- | -- | -- |
| 6/2/2011 | 71.5 | -- | 14.5 | 86.0 | -- | -- | -- | 188000 | -- | -- | -- | -- | |
| MW-14 | 6/2/2011 | <50.0 | -- | 10.4 | 50.1 | -- | -- | -- | 56300 | -- | -- | -- | -- |
| MW-15 | 6/2/2011 | 890 | -- | 38.0 | 928 | -- | -- | -- | 62700 | -- | -- | -- | -- |
| MW-16 | 6/2/2011 | <50.0 | -- | <10.0 | <50.0 | -- | -- | -- | 8740 | -- | -- | -- | -- |
| MW-17 | 6/2/2011 | <50.0 | -- | 29.7 | <50.0 | -- | -- | -- | 3920000 | -- | -- | -- | -- |

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

TABLE 4
Historical Groundwater Gradient and Flow Direction Data

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

| Site | Monitoring Date | Groundwater Gradient (feet per foot) | Groundwater Flow Direction | | | | | | | | | | | | | | | | | |
|------|----------------------|---|----------------------------|----------|----------|----------|----------|----------|----------|-----------|----------|-----------|----------|-----------|----------|----------|----------|----------|----------|----------|
| | | | N | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | | |
| | 04/22/92 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 08/31/92 | 0.05 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| | 11/30/92 | 0.04 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| | 02/07/94 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| | 11/14/94 | 0.03 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| | 02/21/95 | 0.08 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 05/18/95 | 0.07 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 07/26/96 | 0.02 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 10/28/96 | 0.02 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 01/29/97 | 0.01 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 04/15/97 | 0.01 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 07/15/97 | 0.10 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 10/09/97 | 0.10 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 01/14/98 | 0.02 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 04/01/98 | 0.05 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 07/15/98 | 0.04 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 09/30/98 | 0.05 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 01/25/99 | 0.05 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 04/15/99 | 0.04 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 10/21/99 | 0.03 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 07/14/99 | 0.04 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 04/13/00 | 0.050 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 07/14/00 | 0.033 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 10/26/00 | 0.060 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 01/03/01 | 0.070 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 07/17/01 | 0.040 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 10/01/01 | 0.030 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 01/31/02 | 0.010 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 07/28/02 | 0.020 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 10/09/02 | 0.016 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 01/02/03 | 0.010 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 04/01/03 | 0.008 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 07/29/09 | 0.010 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 10/02/03 | 0.010 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 01/09/04 | 0.010 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 04/26/04 | 0.010 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 07/22/04 | 0.010 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 10/29/04 | 0.010 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 01/10/05 | 0.010 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 06/15/05 | 0.020 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 09/27/05 | 0.010 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 12/13/05 | 0.005 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 03/23/06 | 0.010 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 06/23/06 | 0.010 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 09/26/06 | 0.010 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 12/22/06 | 0.010 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 03/30/07 | 0.010 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 09/25/07 | 0.010 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 12/28/07 | 0.010 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 06/28/07 | 0.010 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 03/22/08 | 0.020 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 06/23/08 | 0.010 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 09/19/08 | 0.006 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 12/31/08 | 0.005 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 03/27/09 | 0.006 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 05/28/09 | 0.008 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 09/17/09 | 0.010 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 12/17/09 | 0.008 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 03/29/10 | 0.010 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 06/30/10 | 0.009 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 09/20/10 | 0.007 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 12/08/10 | 0.018 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 03/14/11 | 0.020 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 06/02/11 | 0.020 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0.046 Average | | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 26 | 0 | 13 | 0 | 20 | 2 | 3 | 0 | 0 | 0 | 0 |

Explanation

NA = Not available
 Number of Events = 60

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Appendix A

Previous Investigation and Site History Summary

PREVIOUS INVESTIGATION AND SITE HISTORY SUMMARY

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

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

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

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

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

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

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

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

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

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

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

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

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

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

SENSITIVE RECEPTORS

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

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feet southwest of the site and flows into the San Leandro Bay. Elmhurst Creek is located approximately 2,220 feet north of the site and also flows into the San Leandro Bay.

Current Consultant: **Antea Group**

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Appendix B

Blaine Tech Services Groundwater Sampling Procedures

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

SAMPLING PROCEDURES OVERVIEW

SAFETY

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

INSPECTION AND GAUGING

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

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

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

EVACUATION

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

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

PARAMETER STABILIZATION

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

than once per case volume).

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

DEWATERED WELLS

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

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

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

PURGEWATER CONTAINMENT

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

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

SAMPLE COLLECTION DEVICES

All samples are collected using disposable bailers.

SAMPLE CONTAINERS

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

TRIP BLANKS

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

DUPLICATES

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

SAMPLE STORAGE

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

DOCUMENTATION CONVENTIONS

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

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

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

DECONTAMINATION

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

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

and bailers.

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

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

DISSOLVED OXYGEN READINGS

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

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

OXYIDATON REDUCTION POTENTIAL READINGS

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

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Appendix C

Blaine Tech Services Groundwater Sampling Field Data Sheets

COP-ELT Well-Head Inspection & Well Gauging Form

 Project No: 2705191

 Site Address: 449 Heglenberger Rd. Oakland

 Field Technician: B. Panell P. Harms

 Date: 6/2/11

 Weather: overcast

Well Condition

| Sample Order | Field Point | Bolts | Seal | Lid Secure | Lock | Expanding Cap | Water in Well Box | Well Casing Dia. | Time Gauged | Depth to Water (Feet) | Depth to Bottom (Feet) | Depth to LNAPL (Feet) | LNAPL Thickness (Feet) | Comments |
|--------------|-------------|-------|------|------------|------|---------------|-------------------|------------------|-------------|-----------------------|------------------------|-----------------------|------------------------|--------------------------------------|
| 6 | MW-3 | G | G | P | G | G | Y | 2 | 0734 | 2.43 | 13.92 | — | — | 1/2 tabs needshelical - replaced cap |
| 14 | MW-6 | G | G | G | G | G | Y | 2 | 0803 | 2.76 | 12.62 | — | — | replaced cap |
| 2 | MW-7 | G | G | G | G | G | N | 2 | 0713 | 3.90 | 12.93 | — | — | |
| 1 | MW-8 | G | G | G | G | G | Y | 2 | 0708 | 2.77 | 14.09 | — | — | |
| 3 | MW-9 | P | G | P | G | G | Y | 2 | 0720 | 2.24 | 12.59 | — | — | |
| 7 | MW-10 | G | G | G | G | G | N | 2 | 0738 | 3.92 | 12.68 | — | — | |
| 8 | MW-11 | G | G | G | G | G | N | 4 | 0740 | 1.75 | 19.56 | — | — | |
| 13 | MW-12 | G | G | G | G | G | Y | 4 | 0752 | 4.40 | 19.54 | — | — | |
| 11 | MW-12A | G | G | G | G | G | Y | 2 | 0742 | 4.20 | 32.75 | — | — | |
| 9 | MW-13 | G | G | G | G | G | N | 2 | 0748 | 3.98 | 14.57 | — | — | |
| 4 | MW-14 | G | G | G | G | G | N | 2 | 0727 | 3.58 | 12.80 | — | — | replaced cap + lock |
| 10 | MW-15 | G | G | G | G | G | N | 2 | 0756 | 2.50 | 12.76 | — | — | |
| 12 | MW-16 | G | G | G | G | G | N | 2 | 0748 | 3.00 | 12.70 | — | — | replaced lock |
| 5 | MW-17 | G | G | G | G | G | N | 2 | 0730 | 5.78 | 12.70 | — | — | replaced lock |

Notes:

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

CIRCLE ONE: YES or **NO****

COP-ELT Groundwater Sampling Form

| | | | |
|-----------------------------------|----------------------------|---------------------------|-------------------|
| Site Address: | 449 Hegenberger Rd Oakland | | |
| Project No: | 270 5191 | Field Technician: | B Farrell P Harms |
| Field Point: | MW-3 | Date: | 6/2/11 |
| Depth to Water (DTW) (ft bgs): | 2.43 | Well Diameter (in): | ② 4 6 8 |
| Depth to LNAPL (ft bgs): | — | Thickness of LNAPL (ft): | — |
| Total Depth of Well (ft bgs): | 13.92 | Water Column Height (ft): | 11.49 |

Purging Info and Calculations:

| | | |
|--|---|---|
| Purge Method: Low-Flow <u>casing volumes</u> Other: _____ | Purge Equipment: Disposable Bailer <u>Electric Submersible</u> Peristaltic Pump Bladder Pump Other: _____ | Sample Collection Method: <u>Disposable Bailer w/ BED</u> Extraction Port Dedicated Tubing Disposable Tubing Other: _____ |
| Water Column Height (ft): <u>11.49</u> X Conversion Factor (gal/ft): <u>0.17</u> = Casing Volume (gal): <u>2.0</u> Casing Volume (gal): <u>2.0</u> X Specified Volumes: <u>3</u> = Calculated Purge (gal): <u>6.0</u> | | |
| Conversion Factors (gal/ft): 2" = 0.17 4" = 0.66 6" = 1.5 8" = 2.6 Other = radius ² * 0.163 | | |

Purge: Start Time: 1017 Stop Time: 1023

| Time | Temp (°C) | pH | Conductivity (µS/cm) | ORP (mV) | Turbidity (NTU) | D.O. (mg/L) | Volume Purged (gal) | Water Level (for Low-Flow only) |
|-------------------|-----------|------|----------------------|----------|-----------------|-------------|---------------------|---------------------------------|
| Pre-Purge | | | | — | | — | | |
| 1018 | 19.11 | 5.90 | 8071 | -82.7 | 83 | 1.88 | 1.0 | |
| 1019 | 19.43 | 5.98 | 7793 | -92.1 | 71 | 1.25 | 2.0 | |
| 1020 | 19.73 | 6.10 | 3088 | -140.1 | 59 | 0.76 | 3.0 | |
| 1021 | 21.73 | 6.10 | 2712 | -145.3 | 45 | 0.68 | 4.0 | |
| 1022 | 21.59 | 6.08 | 2650 | -151.7 | 16 | 0.65 | 5.0 | |
| 1023 | 21.33 | 6.05 | 2697 | -152.2 | 11 | 0.59 | 6.0 | 12.52 |
| Post-Purge | | | | — | | — | | |

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

Other Comments: 80% @ 4.72 HCl Reaction * purged through flow cell
 DTW: 8.45 (2hr) HCl Removal from VOAS

Sample Info:

| | |
|----------------------------|-------------------------------------|
| Sample ID: MW-3-20110630 | Sample Date and Time: 6/2/11 @ 1330 |
| Selected Analysis: SEE COL | |

Signature: [Signature] Date: 6/2/11

6

COP-ELT Groundwater Sampling Form

| | | | |
|--------------------------------|----------------------------|---------------------------|------------------|
| Site Address: | 449 Hegenberger Rd Oakland | | |
| Project No: | 2705191 | Field Technician: | B Powell P Harms |
| Field Point: | MW-7 | Date: | 6/2/11 |
| Depth to Water (DTW) (ft bgs): | 3.90 | Well Diameter (in): | ② 4 6 8 |
| Depth to LNAPL (ft bgs): | — | Thickness of LNAPL (ft): | — |
| Total Depth of Well (ft bgs): | 12.93 | Water Column Height (ft): | 9.03 |

Purging Info and Calculations:

| | | |
|--|---|--|
| Purge Method: Low-Flow casing volumes Other: _____ | Purge Equipment: Disposable Bailer Electric Submersible Peristaltic Pump Bladder Pump Other: _____ | Sample Collection Method: Disposable Bailer w/ BED Extraction Port Dedicated Tubing Disposable Tubing Other: _____ |
| Water Column Height (ft): 9.03 | X Conversion Factor (gal/ft): 0.17 | = Casing Volume (gal): 1.5 |
| Casing Volume (gal): 1.5 | X Specified Volumes: 3 | = Calculated Purge (gal): 4.5 |
| Conversion Factors (gal/ft): 2" = 0.17 4" = 0.66 6" = 1.5 8" = 2.6 Other = radius ² * 0.163 | | |

Purge: Start Time: 0848 Stop Time: 0853

| Time | Temp (°C) | pH | Conductivity (µS/cm) | ORP (mV) | Turbidity (NTU) | D.O. (mg/L) | Volume Purged (gal) | Water Level (for Low-Flow only) |
|-------------------|-----------|------|----------------------|----------|-----------------|-------------|---------------------|---------------------------------|
| Pre-Purge | | | | — | | — | | |
| 0848 | 20.01 | 6.43 | 9371 | -81.1 | 101 | 3.01 | 0.7 | |
| 0849 | 20.25 | 6.45 | 9572 | -83.0 | 95 | 2.87 | 1.5 | |
| 0849 | 20.42 | 6.47 | 9473 | -73.1 | 91 | 2.22 | 2.2 | |
| 0850 | 21.23 | 6.56 | 1462 | -30.1 | 80 | 1.36 | 3.0 | |
| 0850 | 22.00 | 6.50 | 1191 | -22.3 | 74 | 1.11 | 3.7 | |
| 0851 | 21.26 | 6.44 | 2301 | -29.1 | 68 | 0.90 | 4.5 | |
| 0852 | 21.02 | 6.43 | 4370 | -56.1 | 55 | 1.08 | 5.2 | |
| 0853 | 20.94 | 6.47 | 3707 | -48.1 | 50 | 1.15 | 6.0 | 9.10 |
| Post-Purge | | | | — | | — | | |

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

Other Comments: 80% @ 5.70 DTW: 4.40 MS/MSD collected * purged through flow cell

Sample Info:

| | | | |
|--------------------|---------------|-----------------------|---------------|
| Sample ID: | MW-7-20110630 | Sample Date and Time: | 6/2/11 @ 0900 |
| Selected Analysis: | SEE COL | | |

Signature: *[Signature]* Date: 6/2/11

Antea™ Group, 1-800-477-7411

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

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



19 Dottle st

COP-ELT Groundwater Sampling Form

| | | | |
|--------------------------------|----------------------------|---------------------------|------------------|
| Site Address: | 449 Hegenberger Rd Oakland | | |
| Project No: | 270 5191 | Field Technician: | B Powell P Harms |
| Field Point: | MW-8 | Date: | 6/2/11 |
| Depth to Water (DTW) (ft bgs): | 2.77 | Well Diameter (in): | ② 4 6 8 |
| Depth to LNAPL (ft bgs): | — | Thickness of LNAPL (ft): | — |
| Total Depth of Well (ft bgs): | 14.69 | Water Column Height (ft): | 11.92 |

Purging Info and Calculations:

| | | |
|--|---|---|
| Purge Method: Low-Flow <u>3 casing volumes</u> Other: _____ | Purge Equipment: Disposable Bailer Electric Submersible Peristaltic Pump Bladder Pump Other: _____ | Sample Collection Method: Disposable Bailer w/ BED Extraction Port Dedicated Tubing Disposable Tubing Other: _____ |
| Water Column Height (ft): <u>11.92</u> X Conversion Factor (gal/ft): <u>0.17</u> = Casing Volume (gal): <u>2.0</u> Casing Volume (gal): <u>2.0</u> X Specified Volumes: <u>3</u> = Calculated Purge (gal): <u>6.0</u> | | |

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

| Purge: | Start Time: <u>0839</u> | Stop Time: <u>0837</u> | | | | | | |
|-------------------|-------------------------|------------------------|----------------------|----------|-----------------|-------------|---------------------|---------------------------------|
| Time | Temp (°C) | pH | Conductivity (µS/cm) | ORP (mV) | Turbidity (NTU) | D.O. (mg/L) | Volume Purged (gal) | Water Level (for Low-Flow only) |
| Pre-Purge | | | | — | | — | | |
| 0835 | 17.00 | 6.93 | 11055 | -93.1 | 357 | 1.95 | 1.0 | |
| 0835 | 17.19 | 6.82 | 11028 | -89.8 | 312 | 1.69 | 2.0 | |
| 0836 | 19.30 | 6.44 | 10099 | -81.9 | 203 | 2.41 | 3.0 | |
| 0836 | 20.34 | 6.32 | 10711 | -87.9 | 108 | 3.10 | 4.0 | |
| 0837 | 20.34 | 6.33 | 10838 | -92.1 | 97 | 3.17 | 5.0 | |
| 0837 | 20.14 | 6.31 | 10925 | -95.0 | 99 | 3.25 | 6.0 | 11.21 |
| Post-Purge | | | | — | | — | | |

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

| | | | |
|-----------------|-------------------------|--|----------------------------|
| Other Comments: | 80% @ 5.15 DTW: 3.00 | | * Purged through flow cell |
|-----------------|-------------------------|--|----------------------------|

Sample Info:

| | |
|----------------------------|------------------------------------|
| Sample ID: MW-8-20110630 | Sample Date and Time: 6/2/11 @ 115 |
| Selected Analysis: SEE COL | |

Signature: [Signature] Date: 6/2/11

Antea™ Group, 1-800-477-7411

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

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



11 bottles

COP-ELT Groundwater Sampling Form

| | | | |
|--------------------------------|----------------------------|---------------------------|------------------|
| Site Address: | 449 Hegenberger Rd Oakland | | |
| Project No: | 270 5191 | Field Technician: | B Powell P Harms |
| Field Point: | MW-9 | Date: | 6/2/11 |
| Depth to Water (DTW) (ft bgs): | 2.24 | Well Diameter (in): | ③ 4 6 8 |
| Depth to LNAPL (ft bgs): | — | Thickness of LNAPL (ft): | — |
| Total Depth of Well (ft bgs): | 12.59 | Water Column Height (ft): | 10.35 |

Purging Info and Calculations:

| | | |
|--|---|---|
| Purge Method: Low-Flow casing volumes Other: _____ | Purge Equipment: Disposable Bailer Electric Submersible Peristaltic Pump Bladder Pump Other: _____ | Sample Collection Method: Disposable Bailer w/ BED Extraction Port Dedicated Tubing Disposable Tubing Other: _____ |
| Water Column Height (ft): 10.35 X Conversion Factor (gal/ft): ^{0.17} 1.86 = Casing Volume (gal): 1.8 Casing Volume (gal): 1.8 X Specified Volumes: 3 = Calculated Purge (gal): 5.4 | | |

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

| Purge: | Start Time: 0931 | Stop Time: 0936 | | | | | | |
|-------------------|---------------------------|-----------------|----------------------|----------|-----------------|-------------|---------------------|---------------------------------|
| Time | Temp (°C) | pH | Conductivity (µS/cm) | ORP (mV) | Turbidity (NTU) | D.O. (mg/L) | Volume Purged (gal) | Water Level (for Low-Flow only) |
| Pre-Purge | | | | | | | | |
| 0932 | 20.16 | 6.27 | 2586 | -50.6 | 39 | 2.86 | 0.9 | |
| 0933 | 20.14 | 6.17 | 2939 | -70.1 | 34 | 1.13 | 1.8 | |
| 0934 | 20.49 | 6.16 | 1630 | -95.9 | 30 | 0.78 | 2.7 | |
| 0935 | 21.37 | 6.13 | 1054 | -87.0 | 27 | 0.71 | 3.6 | |
| 0936 | 21.54 | 6.01 | 1724 | -98.1 | 25 | 0.77 | 4.5 | |
| 0936 | Well Dewatered @ 4.6 Gals | | | | | | 4.6 | 9.74 |
| 1415 | 21.45 | 6.03 | 708 | 56.1 | 15 | 1.87 | — | |
| Post-Purge | | | | | | | | |

Did Well dewater? Yes No Total Purge volume (gal): 4.6

Other Comments: 80% @ 4.31 Post Fe²⁺: 0.2 mg/L * Purged through flow cell
 DTW: 8.62 (2hr)

| | |
|----------------------------|-------------------------------------|
| Sample Info: | |
| Sample ID: MW-9-20110630 | Sample Date and Time: 6/2/11 @ 1415 |
| Selected Analysis: SEE COL | |
| Signature: | Date: 6/2/11 |

Antea™ Group, 1-800-477-7411

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

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



11 Baetle standard
 5 Pace additional
 16 Pace

13 McLaughlin

COP-ELT Groundwater Sampling Form

| | | | |
|--------------------------------|----------------------------|---------------------------|------------------|
| Site Address: | 449 Hegenberger Rd Oakland | | |
| Project No: | 270 5191 | Field Technician: | B Powell P Harms |
| Field Point: | MW-10 | Date: | 6/2/11 |
| Depth to Water (DTW) (ft bgs): | 3.92 | Well Diameter (in): | 8 |
| Depth to LNAPL (ft bgs): | — | Thickness of LNAPL (ft): | — |
| Total Depth of Well (ft bgs): | 12.68 | Water Column Height (ft): | 8.76 |

Purging Info and Calculations:

| | | |
|---|---|--|
| Purge Method: Low-Flow casing volumes Other: _____ | Purge Equipment: Disposable Bailer Electric Submersible Peristaltic Pump Bladder Pump Other: _____ | Sample Collection Method: Disposable Bailer w/ BED Extraction Port Dedicated Tubing Disposable Tubing Other: _____ |
| Water Column Height (ft): 8.76 X Conversion Factor (gal/ft): 0.17 = Casing Volume (gal): 1.5 Casing Volume (gal): 1.5 X Specified Volumes: 3 = Calculated Purge (gal): 4.5 | | |

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

| Purge: | Start Time: 1035 | Stop Time: 1040 | | | | | | |
|-------------------|------------------|-----------------|----------------------|----------|-----------------|-------------|---------------------|---------------------------------|
| Time | Temp (°C) | pH | Conductivity (µS/cm) | ORP (mV) | Turbidity (NTU) | D.O. (mg/L) | Volume Purged (gal) | Water Level (for Low-Flow only) |
| Pre-Purge | | | | — | | — | | |
| 1036 | 19.99 | 6.13 | 2808 | -121.1 | 90 | 2.97 | 0.7 | |
| 1037 | 19.75 | 6.17 | 2701 | -111.5 | 29 | 1.51 | 1.5 | |
| 1037 | 19.33 | 6.22 | 2504 | -103.8 | 19 | 1.18 | 2.2 | |
| 1038 | 19.14 | 6.20 | 2240 | -80.1 | 17 | 0.65 | 3.0 | |
| 1039 | 19.15 | 6.20 | 2111 | -77.3 | 12 | 0.62 | 3.7 | |
| 1040 | 19.16 | 6.19 | 2059 | -75.7 | 9 | 0.62 | 4.5 | |
| Post-Purge | | | | — | | — | | |

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

Other Comments: 80% @ 5.67 DTW: 4.32 * purged through flow cell

| | |
|----------------------------|-------------------------------------|
| Sample Info: | |
| Sample ID: MW-10-20110630 | Sample Date and Time: 6/2/11 @ 1050 |
| Selected Analysis: SEE COL | |

Signature: Date: 6/2/11



11 bottle set

7

COP-ELT Groundwater Sampling Form

| | | | |
|--------------------------------|----------------------------|---------------------------|------------------|
| Site Address: | 449 Hegenberger Rd Oakland | | |
| Project No: | 2705191 | Field Technician: | B Powell P Harms |
| Field Point: | MW-11 | Date: | 6/2/11 |
| Depth to Water (DTW) (ft bgs): | 1.75 | Well Diameter (in): | 2 <u>4</u> 6 8 |
| Depth to LNAPL (ft bgs): | — | Thickness of LNAPL (ft): | — |
| Total Depth of Well (ft bgs): | 19.56 | Water Column Height (ft): | 17.81 |

Purging Info and Calculations:

| | | |
|--|---|---|
| Purge Method: Low-Flow casing volumes Other: _____ | Purge Equipment: Disposable Bailer Electric Submersible Peristaltic Pump Bladder Pump Other: _____ | Sample Collection Method: Disposable Bailer w/ BED Extraction Port Dedicated Tubing Disposable Tubing Other: _____ |
| Water Column Height (ft): <u>17.81</u> X Conversion Factor (gal/ft): <u>0.66</u> = Casing Volume (gal): <u>11.75</u> Casing Volume (gal): <u>11.8</u> X Specified Volumes: <u>3</u> = Calculated Purge (gal): <u>35.4</u> | | |
| Conversion Factors (gal/ft): 2" = 0.17 4" = 0.66 6" = 1.5 8" = 2.6 Other = radius ² * 0.163 | | |

| Purge: | | Start Time: <u>1101</u> | | Stop Time: <u>1117</u> | | | | |
|-------------------|--------------|-------------------------|----------------------|------------------------|-----------------|-------------|---------------------|---------------------------------|
| Time | Temp (°C) | pH | Conductivity (µS/cm) | ORP (mV) | Turbidity (NTU) | D.O. (mg/L) | Volume Purged (gal) | Water Level (for Low-Flow only) |
| Pre-Purge | | | | — | | — | | |
| <u>1104</u> | <u>19.87</u> | <u>6.62</u> | <u>1102</u> | <u>-44.5</u> | <u>32</u> | <u>0.43</u> | <u>5.9</u> | |
| <u>1106</u> | <u>20.14</u> | <u>6.52</u> | <u>1132</u> | <u>-36.2</u> | <u>13</u> | <u>0.43</u> | <u>11.8</u> | |
| <u>1109</u> | <u>20.25</u> | <u>6.62</u> | <u>1134</u> | <u>-32.0</u> | <u>10</u> | <u>0.42</u> | <u>17.7</u> | |
| <u>1111</u> | <u>20.30</u> | <u>6.61</u> | <u>1134</u> | <u>-30.2</u> | <u>9</u> | <u>0.42</u> | <u>23.6</u> | |
| <u>1114</u> | <u>20.35</u> | <u>6.62</u> | <u>1122</u> | <u>-31.1</u> | <u>6</u> | <u>0.44</u> | <u>29.5</u> | |
| <u>1117</u> | <u>20.32</u> | <u>6.59</u> | <u>1130</u> | <u>-31.6</u> | <u>5</u> | <u>0.41</u> | <u>35.4</u> | |
| Post-Purge | | | | — | | — | | |

Did Well dewater? Yes No Total Purge volume (gal): 35.4

Other Comments: 80% @ 5.31 * purged through flow cell
DTW: 4.27

Sample Info:

| | | | |
|--------------------|-----------------------|-----------------------|----------------------|
| Sample ID: | <u>MW-11-20110630</u> | Sample Date and Time: | <u>6/2/11 @ 1125</u> |
| Selected Analysis: | <u>SEE COL</u> | | |

Signature: [Signature] Date: 6/2/11

Antea™ Group, 1-800-477-7411

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

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



11 bottles set

COP-ELT Groundwater Sampling Form

| | | | |
|--------------------------------|----------------------------|---------------------------|------------------|
| Site Address: | 449 Hegenberger Rd Oakland | | |
| Project No: | 270 51 91 | Field Technician: | B Powell P Harms |
| Field Point: | MW-12 | Date: | 6/2/11 |
| Depth to Water (DTW) (ft bgs): | 4.40 | Well Diameter (in): | 2 ④ 6 8 |
| Depth to LNAPL (ft bgs): | — | Thickness of LNAPL (ft): | — |
| Total Depth of Well (ft bgs): | 19.54 | Water Column Height (ft): | 15.14 |

Purging Info and Calculations:

| | | |
|--|---|---|
| Purge Method: Low-Flow <u>casing volumes</u> Other: _____ | Purge Equipment: Disposable Bailer <u>Electric Submersible</u> Peristaltic Pump Bladder Pump Other: _____ | Sample Collection Method: <u>Disposable Bailer w/ BED</u> Extraction Port Dedicated Tubing Disposable Tubing Other: _____ |
| Water Column Height (ft): <u>15.14</u> | X Conversion Factor (gal/ft): <u>0.66</u> | = Casing Volume (gal): <u>9.9</u> |
| Casing Volume (gal): <u>9.9</u> | X Specified Volumes: <u>3</u> | = Calculated Purge (gal): <u>29.9</u> |
| Conversion Factors (gal/ft): 2" = 0.17 4" = 0.66 6" = 1.5 8" = 2.6 Other = radius ² * 0.163 | | |

Purge: Start Time: 1012 Stop Time: 1030

| Time | Temp (°C) | pH | Conductivity (µS/cm) | ORP (mV) | Turbidity (NTU) | D.O. (mg/L) | Volume Purged (gal) | Water Level (for Low-Flow only) |
|-------------------|-----------|------|----------------------|----------|-----------------|-------------|---------------------|---------------------------------|
| Pre-Purge | | | | — | | — | | |
| 1015 | 18.29 | 6.21 | 23469 | -138.0 | 15 | 1.16 | 5 | |
| 1018 | 18.43 | 6.27 | 23004 | -178.1 | 12 | 0.96 | 10 | |
| 1021 | 18.63 | 6.35 | 23865 | -198.2 | 84 | 0.96 | 15 | |
| 1024 | 18.65 | 6.32 | 24169 | -22.6 | 151 | 0.95 | 20 | |
| 1027 | 18.68 | 6.33 | 24445 | -220.3 | 172 | 0.90 | 25 | |
| 1030 | 18.73 | 6.28 | 24862 | -226.7 | 152 | 0.86 | 30 | 12.45 |
| Post-Purge | | | | — | | — | | |

Did Well dewater? Yes No Total Purge volume (gal): 30

Other Comments: 80% @ 7.42 DTW: 4.20 Post Fe²⁺: 0.6mg/L * purged through flow cell

Sample Info:

| | |
|----------------------------|-------------------------------------|
| Sample ID: MW-12-20110630 | Sample Date and Time: 6/2/11 @ 1515 |
| Selected Analysis: SEE COL | |

Signature: [Signature] Date: 6/2/11

Antea™ Group, 1-800-477-7411

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

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



11 Standard
5 Pace

13 Ma Campbell

COP-ELT Groundwater Sampling Form

| | | | |
|--------------------------------|----------------------------|---------------------------|------------------|
| Site Address: | 449 Hegenberger Rd Oakland | | |
| Project No: | 270 5191 | Field Technician: | B Powell P Harms |
| Field Point: | MW-DA | Date: | 6/2/11 |
| Depth to Water (DTW) (ft bgs): | 4.20 | Well Diameter (in): | ② 4 6 8 |
| Depth to LNAPL (ft bgs): | — | Thickness of LNAPL (ft): | — |
| Total Depth of Well (ft bgs): | 32.75 | Water Column Height (ft): | 28.55 |

Purging Info and Calculations:

| | | |
|---|---|---|
| Purge Method: Low-Flow casing volumes Other: _____ | Purge Equipment: Disposable Bailer <u>Electric Submersible</u> Peristaltic Pump Bladder Pump Other: _____ | Sample Collection Method: <u>Disposable Bailer w/ BED</u> Extraction Port Dedicated Tubing Disposable Tubing Other: _____ |
| Water Column Height (ft): <u>28.55</u> X Conversion Factor (gal/ft): <u>0.17</u> = Casing Volume (gal): <u>4.8</u> Casing Volume (gal): <u>4.5</u> X Specified Volumes: <u>3</u> = Calculated Purge (gal): <u>14.5</u> | | |
| Conversion Factors (gal/ft): 2" = 0.17 4" = 0.66 6" = 1.5 8" = 2.6 Other = radius * 0.163 | | |

| Purge: | Start Time: <u>0857</u> | Stop Time: <u>0912</u> | | | | | | |
|-------------------|-------------------------|------------------------|----------------------|----------|-----------------|-------------------------|---------------------|---------------------------------|
| Time | Temp (°C) | pH | Conductivity (µS/cm) | ORP (mV) | Turbidity (NTU) | D.O. (mg/L) | Volume Purged (gal) | Water Level (for Low-Flow only) |
| Pre-Purge | | | | — | | | | |
| 0859 | 19.29 | 6.73 | 2947 | -17.4 | 344 | 1.84 1.16 | 2.5 | |
| 0902 | 19.35 | 6.72 | 3162 | -151.3 | 79 | 1.15 1.15 | 5.0 | |
| 0904 | 19.38 | 6.70 | 3566 | -179.8 | 17 | 1.02 | 7.5 | |
| 0907 | 19.38 | 6.69 | 3192 | -196.4 | 13 | 0.93 | 10.0 | |
| 0909 | 19.38 | 6.64 | 3227 | -201.7 | 7 | 0.83 | 12.5 | |
| 0912 | 19.42 | 6.63 | 3243 | -205.5 | 4 | 0.81 | 15.0 | |
| Post-Purge | | | | — | | | | |

Did Well dewater? Yes No Total Purge volume (gal): 15

Other Comments: 80% @ 9.91 * purged through flow cell
DTW: 4.25

| | |
|-----------------------------------|--|
| Sample Info: | |
| Sample ID: <u>MW-DA-20110630</u> | Sample Date and Time: <u>6/2/11 @ 0920</u> |
| Selected Analysis: <u>SEE COL</u> | |

Signature: RW Date: 6/2/11



COP-ELT Groundwater Sampling Form

| | | | |
|--------------------------------|----------------------------|---------------------------|------------------|
| Site Address: | 449 Hegenberger Rd Oakland | | |
| Project No: | 270 5191 | Field Technician: | B Powell P Harms |
| Field Point: | MW-13 | Date: | 6/2/11 |
| Depth to Water (DTW) (ft bgs): | 3.98 | Well Diameter (in): | ② 4 6 8 |
| Depth to LNAPL (ft bgs): | — | Thickness of LNAPL (ft): | — |
| Total Depth of Well (ft bgs): | 14.57 | Water Column Height (ft): | 10.59 |

Purging Info and Calculations:

| | | |
|--|---|--|
| Purge Method: Low-Flow casing volumes Other: _____ | Purge Equipment: Disposable Bailer Electric Submersible Peristaltic Pump Bladder Pump Other: _____ | Sample Collection Method: Disposable Bailer w/ BED Extraction Port Dedicated Tubing Disposable Tubing Other: _____ |
| Water Column Height (ft): 10.59 X Conversion Factor (gal/ft): 0.17 = Casing Volume (gal): 1.8 Casing Volume (gal): 1.8 X Specified Volumes: 3 = Calculated Purge (gal): 5.4 | | |
| Conversion Factors (gal/ft): 2" = 0.17 4" = 0.66 6" = 1.5 8" = 2.6 Other = radius ² * 0.163 | | |

| Purge: | Start Time: 1140 | Stop Time: 1145 | | | | | | |
|------------|------------------|-----------------|----------------------|----------|-----------------|-------------|---------------------|---------------------------------|
| Time | Temp (°C) | pH | Conductivity (µS/cm) | ORP (mV) | Turbidity (NTU) | D.O. (mg/L) | Volume Purged (gal) | Water Level (for Low-Flow only) |
| Pre-Purge | | | | | | | | |
| 1140 | 21.11 | 6.71 | 2721 | -80.1 | 197 | 3.13 | 0.9 | |
| 1141 | 20.67 | 6.73 | 3031 | -86.8 | 542 | 2.02 | 1.8 | |
| 1142 | 19.36 | 6.86 | 4462 | -134.1 | 247 | 0.87 | 2.7 | |
| 1143 | 19.29 | 6.79 | 4288 | -126.1 | 202 | 0.96 | 3.6 | |
| 1144 | 19.23 | 6.75 | 4493 | -127.3 | 173 | 0.88 | 4.5 | |
| 1145 | 19.18 | 6.71 | 4769 | -128.9 | 161 | 0.80 | 5.4 | 8.10 |
| Post-Purge | | | | | | | | |

| | | | | |
|-------------------|-------------------------|-------------------------------------|---------------------------|----------------------------|
| Did Well dewater? | Yes | <input checked="" type="radio"/> No | Total Purge volume (gal): | 5.4 |
| Other Comments: | 80% @ 6.52 DTW: 6.40 | | | * purged through flow cell |

| | |
|---------------------------|-------------------------------------|
| Sample Info: | |
| Sample ID: MW-13-20110630 | Sample Date and Time: 6/2/11 @ 1155 |
| Selected Analysis: | SEE COL |

| | |
|------------|--------------|
| Signature: | Date: 6/2/11 |
|------------|--------------|

Antea™ Group, 1-800-477-7411

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

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



11 bottle set

COP-ELT Groundwater Sampling Form

| | | | |
|-----------------------------------|----------------------------|---------------------------|------------------|
| Site Address: | 449 Hegenberger Rd Oakland | | |
| Project No: | 270 5191 | Field Technician: | B Powell P Harms |
| Field Point: | MW-14 | Date: | 6/2/11 |
| Depth to Water (DTW) (ft bgs): | 3.58 | Well Diameter (in): | ② 4 6 8 |
| Depth to LNAPL (ft bgs): | — | Thickness of LNAPL (ft): | — |
| Total Depth of Well (ft bgs): | 12.80 | Water Column Height (ft): | 9.22 |

Purging Info and Calculations:

| | | |
|--|--|---|
| Purge Method: Low-Flow <u>casing volumes</u> Other: _____ | Purge Equipment: <u>Disposable Bailer</u> <u>Electric Submersible</u> Peristaltic Pump Bladder Pump Other: _____ | Sample Collection Method: <u>Disposable Bailer w/ BED</u> Extraction Port Dedicated Tubing Disposable Tubing Other: _____ |
| Water Column Height (ft): <u>9.22</u> | X Conversion Factor (gal/ft): <u>0.17</u> | = Casing Volume (gal): <u>1.6</u> |
| Casing Volume (gal): <u>1.6</u> | X Specified Volumes: <u>3</u> | = Calculated Purge (gal): <u>4.8</u> |
| Conversion Factors (gal/ft): 2" = 0.17 4" = 0.66 6" = 1.5 8" = 2.6 Other = radius ² * 0.163 | | |

Purge: Start Time: 0947 Stop Time: 0951

| Time | Temp (°C) | pH | Conductivity (µS/cm) | ORP (mV) | Turbidity (NTU) | D.O. (mg/L) | Volume Purged (gal) | Water Level (for Low-Flow only) |
|-------------------|-----------|------|----------------------|----------|-----------------|-------------|---------------------|---------------------------------|
| Pre-Purge | | | | — | | — | | |
| 0947 | 21.70 | 6.11 | 5989 | -117.1 | 131 | 3.01 | 0.8 | |
| 0948 | 21.51 | 6.12 | 6896 | -138.8 | 195 | 2.14 | 1.6 | |
| 0948 | 20.20 | 6.59 | 14918 | -150.0 | 366 | 0.84 | 2.4 | |
| 0949 | 19.55 | 6.58 | 11570 | -115.1 | 491 | 0.81 | 3.2 | |
| 0950 | 19.33 | 6.46 | 11731 | -104.1 | 601 | 0.77 | 4.0 | |
| 0951 | 19.12 | 6.53 | 12801 | -108.1 | 898 | 0.76 | 4.8 | 10.94 |
| Post-Purge | | | | — | | — | | |

Did Well dewater? Yes No Total Purge volume (gal): 4.8

Other Comments: 80% @ 5.42 HCl Reaction * purged through flow cell
DTW: 5.31 HCl removed from VOA5

Sample Info:

| | | | |
|--------------------|----------------|-----------------------|---------------|
| Sample ID: | MW-14-20110630 | Sample Date and Time: | 6/2/11 @ 1140 |
| Selected Analysis: | SEE COL | | |

Signature: [Signature] Date: 6/2/11

Antea™ Group, 1-800-477-7411

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

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



11 bottles

COP-ELT Groundwater Sampling Form

| | | | |
|--------------------------------|----------------------------|---------------------------|------------------|
| Site Address: | 449 Hegenberger Rd Oakland | | |
| Project No: | 270 51 91 | Field Technician: | B Powell P Harms |
| Field Point: | MW-15 | Date: | 6/2/11 |
| Depth to Water (DTW) (ft bgs): | 2.50 | Well Diameter (in): | 2 4 6 8 |
| Depth to LNAPL (ft bgs): | — | Thickness of LNAPL (ft): | — |
| Total Depth of Well (ft bgs): | 12.76 | Water Column Height (ft): | 10.26 |

Purging Info and Calculations:

| | | |
|--|---|---|
| Purge Method: Low-Flow <u>casing volumes</u> Other: _____ | Purge Equipment: Disposable Bailor <u>Electric Submersible</u> Peristaltic Pump Bladder Pump Other: _____ | Sample Collection Method: <u>Disposable Bailor w/ BED</u> Extraction Port Dedicated Tubing Disposable Tubing Other: _____ |
| Water Column Height (ft): <u>10.26</u> | X Conversion Factor (gal/ft): <u>0.17</u> | = Casing Volume (gal): <u>1.7</u> |
| Casing Volume (gal): <u>1.7</u> | X Specified Volumes: <u>3</u> | = Calculated Purge (gal): <u>5.2</u> |
| Conversion Factors (gal/ft): 2" = 0.17 4" = 0.66 6" = 1.5 8" = 2.6 Other = radius ² * 0.163 | | |

Purge: Start Time: 0837 Stop Time: 0843

| Time | Temp (°C) | pH | Conductivity (µS/cm) | ORP (mV) | Turbidity (NTU) | D.O. (mg/L) | Volume Purged (gal) | Water Level (for Low-Flow only) |
|-------------------|-----------|-----------------------|----------------------|----------|-----------------|-------------|---------------------|---------------------------------|
| Pre-Purge | | | | — | | — | | |
| 0838 | 19.20 | 6.61 | 2583 | -61.2 | 162 | 2.60 | 1 | |
| 0839 | 19.37 | 6.58 | 1875 | -96.7 | 253 | 2.20 | 2 | |
| 0840 | 19.40 | 6.74 | 1828 | -105.7 | 170 | 2.14 | 3 | |
| 0841 | 19.37 | 6.71 | 2486 | -112.5 | 169 | 2.04 | 4 | |
| 0842 | 19.33 | 6.63 | 3525 | -124.0 | 293 | 1.87 | 5 | |
| 0843 | 19.34 | 6.65 | 4786 | -137.4 | 439 | 1.72 | 5.5 | |
| 0843 | 19.33 | 6.69 | 5893 | -148.3 | 464 | 1.60 | 6.0 | |
| | | Dewatered @ 6 gallons | | | | | | |
| Post-Purge | | | | — | | — | | |

Did Well dewater? Yes No Total Purge volume (gal): 6

Other Comments: 80% @ 4.55 * Purged through flow cell
DTW: 6.14 (2hr)

Sample Info:

| | |
|-----------------------------------|--|
| Sample ID: <u>MW-15-20110630</u> | Sample Date and Time: <u>6/2/11 @ 1600</u> |
| Selected Analysis: <u>SEE COL</u> | |

Signature: [Signature] Date: 6/2/11

1600 temp 20.92°C pH 6.50 cond 1793 µS ORP -41.1 turb 171 NTU DO 2.40

Antea™ Group, 1-800-477-7411 LNAPL = light non-aqueous phase liquids gal = gallon/s
 bgs = below ground surface temp = temperature
 ORP = Oxidation-Reduction Potential NTU = Nephelometric Turbidity Units
 D.O. = dissolved oxygen mV = millivolts



COP-ELT Groundwater Sampling Form

| | |
|---|---|
| Site Address: 449 Hegenberger Rd Oakland | |
| Project No: 270 5191 | Field Technician: B Powell P Harms |
| Field Point: MW-16 | Date: 6/2/11 |
| Depth to Water (DTW) (ft bgs): 3.00 | Well Diameter (in): ② 4 6 8 |
| Depth to LNAPL (ft bgs): — | Thickness of LNAPL (ft): — |
| Total Depth of Well (ft bgs): 12.70 | Water Column Height (ft): 9.70 |

Purging Info and Calculations:

| | | |
|---|---|---|
| Purge Method: Low-Flow casing volumes Other: _____ | Purge Equipment: Disposable Bailor Electric Submersible Peristaltic Pump Bladder Pump Other: _____ | Sample Collection Method: Disposable Bailor w/ BED Extraction Port Dedicated Tubing Disposable Tubing Other: _____ |
| Water Column Height (ft): 9.70 | X Conversion Factor (gal/ft): 0.17 | = Casing Volume (gal): 1.6 |
| Casing Volume (gal): 1.6 | X Specified Volumes: 3 | = Calculated Purge (gal): 4.9 |

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

| Purge: | Start Time: 0946 | Stop Time: 0956 | | | | | | |
|-------------------|-------------------------|------------------------|----------------------|----------|-----------------|-------------|---------------------|---------------------------------|
| Time | Temp (°C) | pH | Conductivity (µS/cm) | ORP (mV) | Turbidity (NTU) | D.O. (mg/L) | Volume Purged (gal) | Water Level (for Low-Flow only) |
| Pre-Purge | | | | — | | — | | |
| 0948 | 20.80 | 6.85 | 3252 | -158.7 | 119 | 1.21 | 1.0 | |
| 0949 | 21.48 | 6.85 | 3245 | -153.8 | 74 | 1.11 | 1.5 | |
| 0951 | 21.80 | 6.87 | 3320 | -122.0 | 63 | 0.98 | 2.5 | |
| 0952 | 22.00 | 6.87 | 3365 | -103.8 | 84 | 0.88 | 3.0 | |
| 0954 | 22.06 | 6.87 | 3387 | -99.6 | 88 | 0.83 | 4.0 | |
| 0956 | 22.12 | 6.87 | 3370 | -105.2 | 92 | 0.83 | 5.0 | 6.05 |
| | | | | | | | | |
| | | | | | | | | |
| Post-Purge | | | | — | | — | | |

Did Well dewater? Yes No Total Purge volume (gal): **5**

Other Comments: **80% @ 4.94** * purged through flow cell
DTW: 3.92

| | |
|-----------------------------------|--|
| Sample Info: | |
| Sample ID: MW-16-20110630 | Sample Date and Time: 6/2/11 @ 1545 |
| Selected Analysis: SEE COL | |

Signature: _____ Date: **6/2/11**



COP-ELT Groundwater Sampling Form

| | | | |
|--------------------------------|----------------------------|---------------------------|------------------|
| Site Address: | 449 Hegenberger Rd Oakland | | |
| Project No: | 270 5191 | Field Technician: | B Panell P Harms |
| Field Point: | MW-17 | Date: | 6/2/11 |
| Depth to Water (DTW) (ft bgs): | 5.78 | Well Diameter (in): | ② 4 6 8 |
| Depth to LNAPL (ft bgs): | — | Thickness of LNAPL (ft): | — |
| Total Depth of Well (ft bgs): | 12.70 | Water Column Height (ft): | 6.92 |

Purging Info and Calculations:

| | | |
|---|---|---|
| Purge Method: Low-Flow casing volumes | Purge Equipment: Disposable Bailer Electric Submersible Peristaltic Pump Bladder Pump | Sample Collection Method: Disposable Bailor w/ BED Extraction Port Dedicated Tubing Disposable Tubing |
| Other: _____ | Other: _____ | Other: _____ |
| Water Column Height (ft): 6.92 | X Conversion Factor (gal/ft): 0.17 | = Casing Volume (gal): 1.2 |
| Casing Volume (gal): 1.2 | X Specified Volumes: 3 | = Calculated Purge (gal): 3.6 |

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

| Purge: | Start Time: 1002 | Stop Time: 1006 | | | | | | |
|---------------|-------------------------|------------------------|----------------------|----------|-----------------|-------------|---------------------|---------------------------------|
| Time | Temp (°C) | pH | Conductivity (µS/cm) | ORP (mV) | Turbidity (NTU) | D.O. (mg/L) | Volume Purged (gal) | Water Level (for Low-Flow only) |
| Pre-Purge | | | | — | | — | | |
| 1003 | 19.90 | 5.97 | 30737 | -55.1 | 117 | 2.01 | 0.6 | |
| 1003 | 19.81 | 5.95 | 32301 | -50.1 | 120 | 1.87 | 1.2 | |
| 1004 | 19.76 | 5.90 | 32793 | -45.1 | 113 | 1.43 | 1.8 | |
| 1004 | 19.19 | 5.72 | 36244 | -26.0 | 140 | 0.94 | 2.4 | |
| 1005 | 18.70 | 6.16 | 27727 | -33.1 | 159 | 0.78 | 3.0 | |
| 1006 | 18.54 | 6.18 | 27755 | -32.8 | 164 | 0.79 | 3.6 | 10.14 |
| Post-Purge | | | | — | | — | | |

Did Well dewater? Yes No Total Purge volume (gal): 3.6

Other Comments: 80% @ 7.16 DTW: 946 (2hr) * purged through flow cell

| | |
|----------------------------|------------------------------------|
| Sample Info: | |
| Sample ID: MW-17-20110630 | Sample Date and Time: 6/2/11 @ 130 |
| Selected Analysis: SEE COL | |

Signature: Date: 6/2/11



11 bottle

5

Quarterly Summary Report, Second Quarter 2011
76 Station No. 5191/5043
Oakland, CA
Antea Group Project No. I42705191



Appendix D

Certified Laboratory Analytical Report and Data Validation Form

June 17, 2011

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

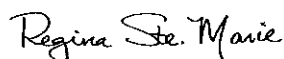
RE: Project: 2705191
Pace Project No.: 257959

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 SteMarie

regina.stemarie@pacelabs.com
Project Manager

Enclosures

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

REPORT OF LABORATORY ANALYSIS

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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

REPORT OF LABORATORY ANALYSIS

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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 |

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 2705191
Pace Project No.: 257959

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|-----------|---------------|----------------|----------|-------------------|------------|
| 257959006 | MW-3_20110630 | 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 |
| | | 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 |
| 257959007 | MW-6_20110630 | EPA 353.2 | CMS | 2 | PASI-S |
| | | SM 4500-NO2 B | KMT | 1 | PASI-S |
| | | 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 |
| 257959008 | MW-7_20110630 | 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 |
| | | 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 |
| 257959009 | MW-8_20110630 | EPA 300.0 | CMS | 1 | PASI-S |
| | | EPA 353.2 | CMS | 2 | PASI-S |
| | | SM 4500-NO2 B | KMT | 1 | PASI-S |
| | | 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 | | |

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 2705191
Pace Project No.: 257959

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|-----------|----------------|----------------|----------|-------------------|------------|
| 257959010 | MW-9_20110630 | EPA 300.0 | CMS | 1 | PASI-S |
| | | EPA 353.2 | CMS | 2 | PASI-S |
| | | SM 4500-NO2 B | KMT | 1 | PASI-S |
| | | 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 |
| 257959011 | MW-14_20110630 | EPA 410.4 | KMT | 1 | PASI-S |
| | | SM 4500-NO2 B | KMT | 1 | PASI-S |
| | | 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 |
| | | EPA 8015B | AY1 | 3 | PASI-S |
| 257959012 | MW-15_20110630 | 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 |
| | | EPA 8015B | AY1 | 3 | PASI-S |
| | | EPA 6010 | BGA | 1 | PASI-S |
| 257959013 | MW-16_20110630 | 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 |
| | | EPA 8015B | AY1 | 3 | PASI-S |
| | | EPA 6010 | BGA | 1 | PASI-S |

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 2705191
Pace Project No.: 257959

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

REPORT OF LABORATORY ANALYSIS

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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 |
|-------------------------|--------------------------------|---------|-------|--------------|----------------|------------|
| 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 | |

REPORT OF LABORATORY ANALYSIS

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Project: 2705191
Pace Project No.: 257959

| 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 | |

REPORT OF LABORATORY ANALYSIS

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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 |
|-------------------------|--------------------------------|---------|-------|--------------|----------------|------------|
| 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 | |

REPORT OF LABORATORY ANALYSIS

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Project: 2705191

Pace Project No.: 257959

| Lab Sample ID | Client Sample ID | | | | | |
|------------------|-------------------------|---------|-------|--------------|----------------|------------|
| Method | 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 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2705191
Pace Project No.: 257959

| Sample: | Lab ID: | Collected: | Received: | Matrix: | | | | |
|---|--------------------------|----------------------------------|---------------------------------|----------------------|----------------|----------------|------------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| Sample: MW-10_20110630 | Lab ID: 257959001 | Collected: 06/02/11 10:50 | Received: 06/03/11 09:00 | Matrix: Water | | | | |
| 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 | | | | | | | | |
| Nitrile as N | 49.3 ug/L | | 10.0 | 1 | | 06/03/11 15:03 | 14797-65-0 | |

| Sample: | Lab ID: | Collected: | Received: | Matrix: | | | | |
|---|--------------------------|----------------------------------|---------------------------------|----------------------|----------------|----------------|----------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| Sample: MW-11_20110630 | Lab ID: 257959002 | Collected: 06/02/11 11:25 | Received: 06/03/11 09:00 | Matrix: Water | | | | |
| 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

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|--|---------|-------|--------------|----|----------------|----------------|------------|------|
| Sample: MW-12_20110630 | | | | | | | | |
| Lab ID: 257959003 | | | | | | | | |
| Collected: 06/02/11 15:15 | | | | | | | | |
| Received: 06/03/11 09:00 | | | | | | | | |
| Matrix: Water | | | | | | | | |
| 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: | Lab ID: | Collected: | Received: | Matrix: | | | | |
|---|--------------------------|----------------|----------------|---------|----------------|----------------|------------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| Sample: MW-12_20110630 | Lab ID: 257959003 | 06/02/11 15:15 | 06/03/11 09:00 | Water | | | | |
| 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: | Lab ID: | Collected: | Received: | Matrix: | | | | |
|---|--------------------------|----------------------------------|---------------------------------|----------------------|----------------|----------------|------------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| Sample: MW-3_20110630 | Lab ID: 257959006 | Collected: 06/02/11 13:30 | Received: 06/03/11 09:00 | Matrix: Water | | | | |
| 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: | Lab ID: | Collected: | Received: | Matrix: | | | | |
|---|--------------------------|----------------------------------|---------------------------------|----------------------|----------------|----------------|---------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| Sample: MW-6_20110630 | Lab ID: 257959007 | Collected: 06/02/11 13:15 | Received: 06/03/11 09:00 | Matrix: Water | | | | |
| 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: | Lab ID: | Collected: | Received: | Matrix: | | | | |
|--|------------|----------------|----------------|---------|----------------|----------------|------------|------|
| MW-6_20110630 | 257959007 | 06/02/11 13:15 | 06/03/11 09:00 | 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: | Lab ID: | Collected: | Received: | Matrix: | | | | |
|--|--------------------------|----------------------------------|---------------------------------|----------------------|----------------|----------------|------------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| Sample: MW-9_20110630 | Lab ID: 257959010 | Collected: 06/02/11 14:15 | Received: 06/03/11 09:00 | Matrix: Water | | | | |
| 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: | Lab ID: | Collected: | Received: | Matrix: | | | | |
|---|--------------------------|----------------------------------|---------------------------------|----------------------|----------------|----------------|---------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| Sample: MW-14_20110630 | Lab ID: 257959011 | Collected: 06/02/11 11:40 | Received: 06/03/11 09:00 | Matrix: Water | | | | |
| 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 | |

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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: CALUFT | | | | | | |
| 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 | |

QUALITY CONTROL DATA

Project: 2705191
Pace Project No.: 257959

QC Batch: AIR/12436 Analysis Method: RSK 175
QC Batch 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 | |

QUALITY CONTROL DATA

Project: 2705191
Pace Project No.: 257959

QC Batch: AIR/12443 Analysis Method: RSK 175
QC Batch 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 | |

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 | | |

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 | MSD | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Qual |
|---------------------|-------|------------------|-------------|-------------|-----------|------------|----------|-----------|--------------|-----|------|
| | | | Spike Conc. | Spike Conc. | | | | | | | |
| 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

| Parameter | Units | MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 73576 | | 73577 | | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Qual |
|-----------------------|-------|--|----------------------|-----------------------|-------|--------------|---------------|-------------|--------------|-----------------|-----|------|
| | | 257959003 Result | MS Spike Conc. | MSD Spike Conc. | | | | | | | | |
| 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 | | |

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 | | 73267 | | MS % Rec | MSD % Rec | % Rec Limits | RPD | Qual |
|--------------------|-------|-----------|----------------|-----------------|-----------|----------|-----------|--------------|--------|------|
| | | Result | MS Spike Conc. | MSD Spike Conc. | MS Result | | | | | |
| Mercury, Dissolved | ug/L | ND | 5 | 5 | 2.1 | 2.2 | 42 | 43 | 85-115 | 2 M1 |

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 | | MSD | | MS % Rec | MSD % Rec | % Rec Limits | RPD | Qual |
|---------------------------|-------|------------------|-------------|----------------|-----------------|-----------|----------|-----------|--------------|-----|------|
| | | | Spike Conc. | MS Spike Conc. | MSD Spike Conc. | MS Result | | | | | |
| 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

| Parameter | Units | MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 73637 | | 73638 | | MS % Rec | MSD % Rec | % Rec Limits | RPD | Qual |
|--------------------------|-------|--|----------------------|-----------------------|--------------|-------------|--------------|-----------------|-----|------|
| | | 257959001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | | | | | |
| Dibromofluoromethane (S) | % | | | | | 98 | 99 | 80-122 | | |
| Toluene-d8 (S) | % | | | | | 98 | 98 | 80-123 | | |

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 | MS | | MSD | | MS | | MSD | | % Rec Limits | RPD | Qual |
|-------------------------|-------|------------------|-------------|-------------|--------|--------|-------|-------|--------|--------------|-----|------|
| | | 257959009 Result | Spike Conc. | Spike Conc. | Result | Result | % Rec | % Rec | | | | |
| 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

| Parameter | Units | MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 73745 | | 73746 | | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Qual |
|---------------------------|-------|--|----------------|-----------------|------|-----------|------------|----------|-----------|--------------|-----|------|
| | | 257959009 Result | MS Spike Conc. | MSD Spike Conc. | | | | | | | | |
| 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 | | | |

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 | | |

QUALITY CONTROL DATA

Project: 2705191
Pace Project No.: 257959

QC Batch: MSV4662 Analysis Method: CA LUFT
QC Batch 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 | | |

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 | |

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 | | MSD | | MS % Rec | MSD % Rec | % Rec Limits | RPD | Qual |
|-----------|-------|------------------|-------------|-----------|------------|--------|----------|-----------|--------------|-----|------|
| | | | Spike Conc. | MS Result | MSD Result | | | | | | |
| 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 | |

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. | 73214 | | 73215 | | % Rec Limits | RPD | Qual |
|------------------------|-------|------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|------|
| | | | | | MS Result | MSD Result | MS % Rec | MSD % Rec | | | |
| 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 |

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

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 | |

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.

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 | | |

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 | | |

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 | | |

**McC Campbell Analytical, Inc.**

"When Quality Counts"

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

| | | |
|---|---|--------------------------|
| Pace Analytical Services, Inc. 940 S. Harney Street 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 Ste. 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

McC Campbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius
Laboratory Manager
McC Campbell Analytical, Inc.

McC Campbell 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

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 | <input type="checkbox"/> | C | D | E | J | B | F | H | A | I | A | B | G |
| 1106114-002 | MW-6_20110630 | Water | 6/2/2011 13:15 | <input type="checkbox"/> | C | D | E | J | B | F | H | I | I | A | B | G |
| 1106114-003 | MW-9_20110630 | Water | 6/2/2011 14:15 | <input type="checkbox"/> | C | D | E | J | B | F | H | I | I | A | B | G |

Test Legend:

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

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 <input checked="" type="checkbox"/> | No <input type="checkbox"/> |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |
| Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |
| Sample IDs noted by Client on COC? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |
| Date and Time of collection noted by Client on COC? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |
| Sampler's name noted on COC? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |

Sample Receipt Information

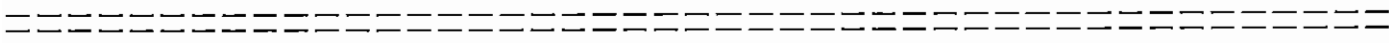
| | | | |
|--|---|-----------------------------|--|
| Custody seals intact on shipping container/cooler? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |
| Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Samples in proper containers/bottles? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |

Sample Preservation and Hold Time (HT) Information

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

(Ice Type: WET ICE)

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



Client contacted: _____ Date contacted: _____ Contacted by: _____

Comments:



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.



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.



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 batch 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.



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 = $100 * (\text{Sample} - \text{Duplicate}) / ((\text{Sample} + \text{Duplicate}) / 2)$

DHS ELAP Certification 1644

 QA/QC Officer



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.



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 |
| 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.



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.

QA/QC Officer



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.



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 |
|--------------|------------------|----------------|------------------|--------|--------------|----------------|---------------|
| I106114-001H | 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.



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 = $100 * (\text{Sample} - \text{Duplicate}) / [(\text{Sample} + \text{Duplicate}) / 2]$

%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.



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.



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.

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 vial | | WGFU | 4oz clear soil jar |
| BP1U | 1 liter unpreserved plastic | | | | | | | DG9M | 40mL MeOH clear vial | | WGFU | 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 Container Count

2 5 7 9 5 9

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 ²² | | | 2 | 1 ²² | |
| 2 | 6 | | | | | 1 | | | 1 ²² | | | 2 | 1 ²² | |
| 3 | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | Trip Blank? <u>No</u> |

| | | | | | | |
|------|--------------------------------|--|------|------------------------------|------|--|
| 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 vial | WGFU | 4oz clear soil jar |
| BP1U | 1 liter unpreserved plastic | | DG9M | 40mL MeOH clear vial | WGFY | 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

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 Date and Initials of person examining contents: 06/03/11 CW
Temp should be above freezing $\leq 6^{\circ}\text{C}$ Comments: _____

| | | |
|---|--|--|
| Chain of Custody Present: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 1. |
| Chain of Custody Filled Out: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 2. |
| Chain of Custody Relinquished: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 3. |
| Sampler Name & Signature on COC: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 4. |
| Samples Arrived within Hold Time: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 5. |
| Short Hold Time Analysis (<72hr): | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 6. <u>BOD, NO₂ RSM</u> |
| Rush Turn Around Time Requested: | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 7. |
| Follow Up / Hold Analysis Requested: | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 8. |
| Sufficient Volume: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 9. |
| Correct Containers Used: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 10. <u>Per coc - HCL removed from MW-14 & MW-3 VOA vials. RSM</u> |
| -Pace Containers Used: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | |
| Containers Intact: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 11. |
| Filtered volume received for Dissolved tests | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 12. |
| Sample Labels match COC: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 13. |
| -Includes date/time/ID/Analysis Matrix: <u>WT</u> | | |
| All containers needing preservation have been checked | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 14. <u>added 2ml of HNO₃ & H₂SO₄ to sample MW-14 06/03/11 @ 1030</u> |
| All containers needing preservation are found to be in compliance with EPA recommendation | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | |
| Exceptions: VOA, coliform, TOC, O&G | | Initial when completed <u>CW</u> Lot # of added preservative <u>HNO₃: 1110810 H₂SO₄: 107546</u> |
| Samples checked for dechlorination: | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 15. |
| Headspace in VOA Vials (>6mm): | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 16. |
| Trip Blanks Present: | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 17. |
| Trip Blank Custody Seals Present | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 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 06/03/11 - 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)

Quarterly Summary Report, Second Quarter 2011
76 Station No. 5191/5043
Oakland, CA
Antea Group Project No. I42705191



Appendix E

Waste Manifest

NON-HAZARDOUS WASTE MANIFEST

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

| | | | | |
|---|--|--|--|-------------------|
| NON-HAZARDOUS WASTE MANIFEST | | 1. Generator's US EPA ID No. <i>N/A</i> | Manifest Document No. <i>270591-00-11</i> | 2. Page 1 of 1 |
| 3. Generator's Name and Mailing Address <i>PC&F C/O LIZ BERMUDEZ 2003 CAMINO RAMON SUITE 350 SAN RAMON, CA 94583</i> | | Site # <i>270591</i> <i>449 Hegenberger Rd. Oakland, CA 94102</i> | | |
| 4. Generator's Phone <i>(925) 884-0800</i> | 5. Transporter 1 Company Name <i>Blaine Tech Services</i> | 6. US EPA ID Number _____ | A. State Transporter's ID _____ | |
| 7. Transporter 2 Company Name _____ | 8. US EPA ID Number _____ | B. Transporter 1 Phone <i>310-885-4455</i> | | |
| 9. Designated Facility Name and Site Address <i>Seaport Environmental 700 seaport Blvd. Redwood City, CA 94003</i> | | 10. US EPA ID Number <i>000013572</i> | C. State Transporter's ID _____ | |
| | | D. Transporter 2 Phone _____ | | |
| | | E. State Facility's ID _____ | | |
| | | F. Facility's Phone <i>(650) 3104-1024</i> | | |
| 11. WASTE DESCRIPTION | | 12. Containers | 13. Total Quantity | 14. Unit Wt./Vol. |
| a. <i>Non hazardous waste liquid</i> | | No. <i>1</i> Type <i>TT</i> | <i>80</i> | <i>G</i> |
| b. | | | | |
| c. | | | | |
| d. | | | | |
| G. Additional Descriptions for Materials Listed Above | | H. Handling Codes for Wastes Listed Above | | |
| 15. Special Handling Instructions and Additional Information <i>Wear protective equipment while handling Weights and volumes are approximate 24hr emergency phone number (310) 885-4455</i> | | | | |
| <i>Approval No 500-1049 Direct Bill Blaine Tech Blaine Tech PO#</i> | | | | |
| 16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations. | | | | |
| Printed/Typed Name <i>Cantea Group</i> | | Signature <i>[Signature]</i> | Date Month Day Year <i>5/24/11</i> | |
| 17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name <i>Kerilyn Mendes</i> | | Signature <i>[Signature]</i> | Date Month Day Year <i>6/2/11</i> | |
| 18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name <i>Ben Panell</i> | | Signature <i>[Signature]</i> | Date Month Day Year _____ _____ ____ | |
| 19. Discrepancy Indication Space | | | | |
| 20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19. | | | | |
| Printed/Typed Name <i>Joaquin D. Camara</i> | | Signature <i>[Signature]</i> | Date Month Day Year <i>06/03/11</i> | |

NON-HAZARDOUS WASTE

GENERATOR

TRANSPORTER

FACILITY