

RECEIVED

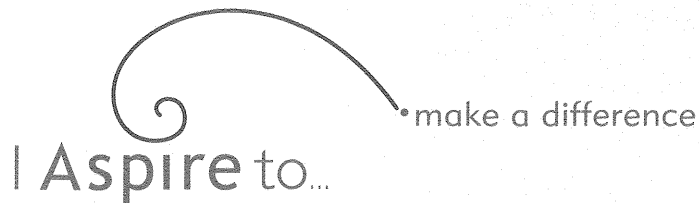
8:44 am, Feb 16, 2010

Alameda County
Environmental Health

**Groundwater Monitoring and Soil-Vapor
Extraction/Air Sparging System Operation Report
for the Period
October 1 through December 31, 2009
Former Pacific Electric Motors Site
1009 66th Avenue, Oakland, California
(Fuel Leak Case Number RO0000411)**

**February 12, 2010
RV009155.0004**

Prepared for:
Aspire Public Schools
1001 22nd Avenue Suite 100
Oakland, California 94606



February 12, 2010

Mr. Paresh Khatri
Alameda County Environmental Health Services
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

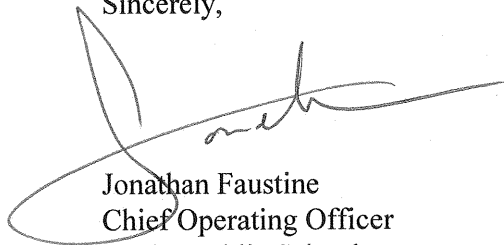
Subject: Groundwater Monitoring Report and Soil-Vapor Extraction/Air Sparging System
Operation Report for the Period October 1 through December 31, 2009, Former Pacific
Electric Motors Site, 1009 66th Avenue, Oakland, California (Fuel Leak Case Number
RO0000411)

Dear Mr. Khatri:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who managed the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

If you have any questions or comments, please call Charles Robitaille at 925-698-1118,
Ron Goloubow of LFR at 510-596-9550, or me at (510) 434-5000.

Sincerely,



Jonathan Faustine
Chief Operating Officer
Aspire Public Schools

February 12, 2010

RV009155.0004

Mr. Paresh Khatri
Alameda County Environmental Health Services
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Subject: Groundwater Monitoring Report and Soil-Vapor Extraction/Air Sparging System Operation Report for the Period October 1 through December 31, 2009, Former Pacific Electric Motors Site, 1009 66th Avenue, Oakland, California (Fuel Leak Case Number RO0000411)

Dear Mr. Khatri:

LFR Inc. an ARCADIS company (LFR, now fully integrated and known as ARCADIS) has prepared this combination groundwater monitoring report and soil-vapor extraction/air sparging (SVE/AS) operation report, on behalf of Aspire Public Schools, to summarize the activities conducted during the monitoring period from July 1 through September 30, 2009 at the former Pacific Electric Motors site located at 1009 66th Avenue, Oakland, California (“the Site”).

In preparation for the start of the excavation activities to be conducted at the Site as presented in the “Revised Corrective Action Plan, Proposed Aspire School Site, 1009 66th Avenue, Oakland, California,” dated July 17, 2009 (“the Revised CAP”), the SVE/AS was shut down on October 27, 2009 and disassembled. As a result, the SVE/AS operated for 27 days during the monitoring period. Groundwater monitoring was performed on October 21 and 22, 2009, with slight modifications relative to the Groundwater Monitoring Plan that was prepared for the Site and submitted to Alameda County Environmental Health on March 4, 2009. The purpose of the periodic groundwater monitoring and reporting is to provide data that will be used to assess the groundwater quality over time and the effectiveness of the groundwater remediation that is taking place at the Site.

As provided in this report, the initial results of the groundwater samples collected after the operation of the SVE/AS for approximately 52 days indicate that the remediation system is operating effectively and the concentrations of fuel and fuel-related compounds in groundwater are decreasing as a result of the operation of the SVE/AS.

If you have any questions or comments, please contact me at (510) 652-4500 or Alan Gibbs at (916) 786-8129.

Sincerely,



Ron Goloubow, P.G.
Senior Associate Geologist

Attachment

cc: Mr. Charles P. Robitaille – Pacific Charter School Development
Mr. Michael Barr – Aspire Public Schools

CONTENTS

CERTIFICATION III

1.0 INTRODUCTION 1

 1.1 Purpose of the Report 1

 1.2 Background..... 1

 1.3 Previous Investigations 2

 1.4 Revised Corrective Action Plan 3

2.0 GROUNDWATER MONITORING 4

 2.1 Groundwater Monitoring Scope of Work 4

 2.2 Groundwater Monitoring Wells..... 5

 2.3 Groundwater Elevations..... 5

 2.4 Groundwater Sampling 5

 2.5 Groundwater Sample Analyses 6

3.0 SVE/AS SYSTEM OPERATION AND DEMOBILIZATION..... 6

 3.1 SVE/AS System Operation 7

 3.2 SVE/AS System Demobilization..... 7

 3.3 Waste Management 7

4.0 RESULTS AND DISCUSSION 7

 4.1 Groundwater Elevations and Gradients 8

 4.2 Analytical Results for TPHg, BTEX, TBA, and MTBE 9

 4.2.1 Shallow Zone 9

 4.2.2 Intermediate Zone..... 9

 4.2.3 Deep Zone..... 10

 4.3 Analytical Results for Metals in Groundwater Samples 10

 4.3.1 Arsenic 11

 4.3.2 Total Chromium and Hexavalent Chromium 11

 4.3.3 Selenium 11

5.0 CONCLUSIONS 11

6.0 RECOMMENDATIONS 12

7.0 SUMMARY AND SCHEDULE 12

8.0 LIMITATIONS 12

9.0 REFERENCES..... 13

TABLES

- 1 Groundwater Elevations
- 2 Analytical Results for Volatile Organic Compounds
- 3 Analytical Results for Metals in Groundwater
- 4 Field Parameters

FIGURES

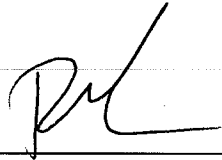
- 1 Site Vicinity Map
- 2 Site Plan
- 3 Groundwater Elevation Contour Map, Intermediate Zone, October 2009
- 4 Groundwater Elevation Contour Map, Deep Zone, October 2009
- 5 Analytical Results for TPHg and VOCs in Intermediate-Zone Groundwater Samples
- 6 Analytical Results for TPHg and VOCs in Deep-Zone Groundwater Samples

APPENDICES

- A Laboratory Analytical Reports
- B Field Logs

CERTIFICATION

All hydrogeologic and geologic information, conclusions, and recommendations in this document have been prepared under the supervision of and reviewed by an ARCADIS U.S., Inc., California Professional Geologist . *



Ron Goloubow, P.G.
Senior Associate Geologist
California Professional Geologist (8655)



2-12-2010

Date

Expires Nov. 30, 2011

* A professional geologist's certification of conditions comprises a declaration of his or her professional judgment. It does not constitute a warranty or guarantee, expressed or implied, nor does it relieve any other party of its responsibility to abide by contract documents, applicable codes, standards, regulations, and ordinances.

1.0 INTRODUCTION

LFR Inc. an ARCADIS Company (LFR, now fully integrated and known as ARCADIS) has prepared this periodic groundwater monitoring and soil-vapor extraction/air sparging (SVE/AS) extended pilot test system report on behalf of Aspire Public Schools (“Aspire”). The report provides a summary of activities conducted during the monitoring period from October 1, 2009 through December 31, 2009 (“the reporting quarter”) at the former Pacific Electric Motors (PEM) site located at 1009 66th Avenue, Oakland, California (“the Site”; Alameda County Environmental Health [ACEH] Fuel Leak Case Number RO0000411; Figures 1 and 2).

In preparation for the start of the excavation activities that are being conducted at the Site as presented in the “Revised Corrective Action Plan, Proposed Aspire School Site, 1009 66th Avenue, Oakland, California,” dated July 17, 2009 (“the Revised CAP”; LFR 2009b) the SVE/AS was shut down on October 27, 2009 and disassembled. As a result, the SVE/AS operated for 27 days during the monitoring period. Groundwater monitoring was performed on October 21 and 22, 2009 with slight modifications relative to the Groundwater Monitoring Plan (GMP) that was prepared for the Site and submitted to Alameda County Environmental Health on March 4, 2009.

1.1 Purpose of the Report

The purpose of the periodic groundwater monitoring and SVE/AS operation report is to provide data that will be used to assess the groundwater quality over time and the effectiveness of the groundwater remediation at the Site.

During this sampling period, LFR operated the SVE/AS pilot test system from October 1 to October 27, 2009 for remediation of groundwater and soil vapor that are affected by total petroleum hydrocarbons as gasoline (TPHg), benzene, toluene, ethylbenzene, and total xylenes (BTEX compounds), methyl tertiary-butyl ether (MTBE), and tertiary-butyl alcohol (TBA). As of October 27, 2009 LFR ceased the operation of the SVE/AS pilot test system to allow for implementation of the Revised CAP, which requires remedial soil excavation.

As presented in Revised CAP, chemicals of concern (COC) at the Site in groundwater include TPHg, BTEX, MTBE, and TBA.

1.2 Background

The Site is located on the northwestern side of 66th Avenue between East 14th Street and San Leandro Street (Figures 1 and 2). The area around the Site is developed with a mixture of commercial, industrial, government, and multi-family residential buildings. The Site is currently owned by Aspire.

Additional historical land use information for the Site was presented in LFR's report entitled "Revised Corrective Action Plan, Proposed Aspire School Site, 1009 66th Avenue, Oakland, California," dated July 17, 2009 ("the Revised CAP"; LFR 2009b).

The first industrial development of the property was in about 1948 when the two buildings currently present on the Site were constructed by PEM. PEM occupied the Site from 1948 to 2001. Activities conducted at the Site by PEM included manufacturing specialty magnets, power supplies, and components; and repairing motors, generators, transformers, and magnets. A 2,000-gallon gasoline underground storage tank (UST) was reportedly installed at the Site by PEM in 1975. In addition, the gasoline shed in the fueling area may have stored vehicle lubricants and oil for vehicle maintenance.

The on-site buildings were occupied by Bay Area Powder Coatings in 2001. Bay Area Powder Coatings declared bankruptcy and ceased operations at the Site; however, some equipment belonging to this company was still present on the Site in 2005. No details are available as to the specific processes of Bay Area Powder Coatings.

Landeros Iron Works ("Landeros"), which subleased the property from Bay Area Powder Coatings, conducted its operations in and around the warehouse until December 2008. Landeros' operation was primarily welding and metal structure fabrication. Landeros moved off site in June 2009.

1.3 Previous Investigations

Several phases of investigation have been completed at the Site. According to descriptions of soil samples collected during the drilling of soil borings for groundwater monitoring wells installed at the Site, three groundwater-bearing zones designated as the "shallow zone," "intermediate zone," and "deep zone" have been identified at the Site (LFR 2008b). The sediments from the ground surface to approximately 8 feet below ground surface (bgs) consist of an interval of fine-grained sediment (silt and clay) with relatively thin intervals of coarser grained sediments (sand, less than 1 foot thick). These coarser grained sediments represent the interval of "shallow zone." This is the interval in which the soil-vapor system is to be operated. Groundwater has been observed in this interval during the winter months of any year that has normal or above normal rainfall. The presence of groundwater in this interval may impede the operation of the SVE system during the months of November through February.

Discontinuous intervals of relatively thin, more permeable fine- to coarse-grained sand and gravels have generally been encountered between approximately 12 and 17 feet bgs. This interval of sediments contains the first groundwater at the Site, and represents the interval of "intermediate-zone" groundwater at the Site.

An interval of poorly graded, coarser grained sediments comprised of fine sand and gravel was consistently encountered from approximately 21 to 34 feet bgs. This

interval of coarser grained sediments contains groundwater and represents the “deep zone.”

The investigations conducted at the Site have also included the following:

- Collection of approximately 280 soil samples throughout the Site. The majority of these samples were collected from 0.5 or 5 feet bgs and analyzed for petroleum hydrocarbons, semivolatile organic compounds (SVOCs), polychlorinated biphenyls (PCBs), and/or metals.
- Installation and monitoring of four shallow groundwater monitoring wells (MW-1 through MW-4) and three shallow/intermediate/deep monitoring well clusters (nested wells NW-1 through NW-3), and collection of grab groundwater samples from 20 soil borings. Monitoring of wells MW-1 through MW-4 has been performed intermittently since 1997.
- Completion of two investigations to assess soil-gas quality at the Site in March and August 2008. The results of these investigations were presented in the Revised CAP (LFR 2009b).
- Completion of an SVE/AS pilot test at the Site in accordance with LFR’s “Work Plan to Conduct an Air Injection and Soil-Vapor Extraction Pilot Test,” dated September 23, 2008 (LFR 2008a).
- Installation of seven SVE wells (SVE-2 through SVE-8), seven intermediate-zone AS wells (AS-2I through AS-8I), seven deep-zone AS wells (AS-2D through AS-8D), three SVE monitoring wells (SVMW-3 through SVMW-5), three intermediate-zone AS monitoring wells (ASMW-3I through ASMW-5I), and three deep-zone AS monitoring wells (ASMW-3D through ASMW-5D), from December 29, 2008 to January 9, 2009.
- Initial start-up of the SVE/AS extended pilot test system occurred on August 17, 2009. The system operated until October 27, 2009, at which time operations were ceased to allow for implementation of the Revised CAP, which requires remedial soil excavation. The system operated a total of 52 days, from August 17, 2009 to October 27, 2009, and removed approximately 480 pounds of mass quantified as TPHg. For additional information and system design and start-up of the SVE/AS, please refer to the previous quarterly report prepared for this project (LFR 2009d).

1.4 Revised Corrective Action Plan

LFR prepared the Revised CAP for the implementation of site remedies (LFR 2009b). The Revised CAP summarized the results of previous investigations, presented the site conceptual model, quantified the baseline risk of COCs, developed site-specific risk-based cleanup goals, evaluated potential remedies, and presented an implementation plan for the selected remedies.

The Revised CAP recommended excavation and off-site disposal of affected shallow soils with SVE/AS to remediate affected soil, groundwater, and soil vapors (LFR

2009b). The Revised CAP also recommended conducting an extended SVE/AS pilot test including ozone injection, if appropriate.

As of January 5, 2010, a total of approximately 3,910 tons of affected soil has been removed from the Site and confirmation soil samples documenting the successful removal of the affected soil have been collected at various locations across the Site. Of this total, approximately 970 tons of PCB-affected soil and concrete was disposed of as Toxic Substance Control Act (TSCA) waste at Waste Management's Kettleman Hills Class I Landfill located in Kettleman City, California.

A total of approximately 2,940 tons of affected soil were also excavated from the Site. This soil was excavated from the Site and temporarily stockpiled and subsequently disposed of at Republic Waste's Vasco Road Class II Landfill located in Livermore, California. In addition, approximately 249 tons of concrete and asphalt were removed and disposed of at Republic Waste's Keller Canyon Class II Landfill located in Pittsburg, California. Currently the excavation activities are being delayed due to rain that occurred in January 2010.

2.0 GROUNDWATER MONITORING

To monitor the performance of the SVE/AS at the Site, groundwater monitoring was performed with slight modifications relative to the GMP and the Revised CAP (LFR 2009b). Groundwater samples were collected on October 21 and 22, 2009, prior to disassembling the SVE/AS, to monitor the performance of SVE/AS operations. Prior to conducting the groundwater monitoring, the SVE/AS was shut down for approximately 48 hours in order to collect groundwater level measurements and groundwater samples under non-injection conditions.

The following sections describe the groundwater monitoring activities for this reporting quarter.

2.1 Groundwater Monitoring Scope of Work

The following groundwater monitoring activities were performed during this reporting quarter:

- Measured depth to groundwater in 11 monitoring wells.
- Collected SVE/AS system baseline groundwater samples from 11 monitoring wells on October 21 and 22, 2009.
- Collected quarterly groundwater samples and two-month SVE/AS system performance data on October 21 and 22, 2009.
- Submitted groundwater samples for laboratory analyses.

2.2 Groundwater Monitoring Wells

The current groundwater monitoring well network at the Site includes 21 groundwater monitoring wells (Figure 2).

- Four groundwater monitoring wells (MW-1 through MW-4) are screened from approximately 5 to 20 feet bgs.
- Three shallow-zone groundwater monitoring wells (NW-1S, NW-2S, and NW-3S; part of the triple-nested groundwater monitoring wells) are completed with screens at approximately 3 to 5 feet bgs.
- Four intermediate-zone groundwater monitoring wells (ASMW-2I through ASMW-5I) are screened from approximately 10 to 17 feet bgs.
- Three intermediate-zone groundwater monitoring wells (NW-1I, NW-2I, and NW-3I; part of the triple-nested groundwater monitoring wells) are screened from approximately 15 to 18 feet bgs.
- Three deep-zone groundwater monitoring wells (NW-1D, NW-2D and NW-3D; part of the triple-nested groundwater monitoring wells) are completed with screens at approximately 25 to 30 feet bgs.
- Four deep-zone groundwater monitoring wells (ASMW-2D, ASMW-3D, ASMW-4D, and ASMW-5D) are screened from approximately 19 to 27 feet bgs.

2.3 Groundwater Elevations

Groundwater elevations were gauged on October 21, 2009. The depth to groundwater was measured in 11 monitoring wells using an electronic water level indicator. The water level indicator was lowered into the well until a tone signaled that the indicator had contacted water. The depth to groundwater was measured to the surveyed elevation mark on the top of the casing of the monitoring well. The installation of the SVE/AS system piping obscured the exact location of the surveyed elevation marks on wells AS-2I, AS-2D, AS-7I, and AS-8I; thus, the groundwater elevations for these wells is estimated.

The groundwater elevation in each well was calculated by subtracting the depth to water from the surveyed top-of-casing elevation. The groundwater elevation results are summarized in Table 1. Groundwater elevation data and contours for the intermediate and deep groundwater zones are presented on Figures 3 and 4, respectively. Groundwater elevation data were not collected for the shallow groundwater zone.

2.4 Groundwater Sampling

Groundwater samples were collected using low-flow groundwater sampling techniques (Puls and Barcelona 1996). The intake of the low-flow pump was placed in the middle of the screened interval and purged continuously until groundwater parameters (pH, conductivity, temperature, oxidation-reduction potential, and dissolved oxygen)

stabilized, or until the well had been purged for approximately 30 minutes or of two gallons. Wells that purged dry were allowed to recharge to approximately 80% of original depth to groundwater before samples were collected.

Groundwater samples were collected directly from the hose of the pump and conveyed into laboratory-supplied sample containers. The containers were labeled with the well identification number, the time and date of collection, the analysis requested, and the initials of the sampler. The samples were stored in an ice-chilled cooler and maintained under strict chain-of-custody protocols as they were submitted to the laboratory for analysis.

2.5 Groundwater Sample Analyses

Ongoing monitoring and analysis of groundwater samples for TPHg, BTEX, TBA, and MTBE was conducted to assess the quality of groundwater affected by these COCs and the effectiveness of the SVE/AS system.

Groundwater samples were analyzed for arsenic, hexavalent chromium, total chromium, and selenium, to evaluate if operation of the SVE/AS system caused a change in site conditions that would make these metals more soluble in groundwater.

The groundwater samples were submitted to Curtis & Tompkins, Ltd., a state-certified laboratory located in Berkeley, California, and analyzed for one or more of the following:

- TPHg by U.S. Environmental Protection Agency (EPA) Method 8260B
- BTEX, TBA, and MTBE by EPA Method 8260B
- Arsenic, total chromium, and selenium by EPA Method 6010B
- Hexavalent chromium by EPA method 7199

Analytical results of groundwater samples are summarized in Tables 2 and 3. Table 4 summarizes the groundwater monitoring parameters. Figures 5 and 6 present the analytical results of TPHg, BTEX, and fuel oxygenates in the intermediate and deep groundwater zones, respectively. Copies of the laboratory data sheets and chain-of-custody documents are presented in Appendix A. Copies of the monitoring well purge and sampling forms are presented in Appendix B.

3.0 SVE/AS SYSTEM OPERATION AND DEMOBILIZATION

This section of the report provides a summary of the operation and demobilization of the SVE/AS extended pilot test system at the Site. The operation of the SVE/AS extended pilot test system was terminated on October 27, 2009 to allow for the excavation of affected soil as presented in the Revised CAP.

The overall objective of the extended pilot test is to evaluate the effectiveness of SVE/AS in reducing concentrations of TPHg, BTEX, TBA, and MTBE in

groundwater, soil, and soil gas. Details regarding the operation of the system were provided in the Groundwater Monitoring Report and Soil-Vapor Extraction/Air Sparging System Construction and Initial Operation Report submitted on November 13, 2009 (LFR 2009d).

3.1 SVE/AS System Operation

LFR inspected the SVE/AS system on a weekly schedule in accordance with the Revised CAP. Weekly inspections were conducted to monitor system operation time and system performance, and to perform routine maintenance. Performance monitoring included recording the system's operating mode, SVE and AS system flow rates, and pressures at each sparge well. Operational field logs were presented in the Groundwater Monitoring Report and Soil-Vapor Extraction/Air Sparging System Construction and Initial Operation Report submitted on November 13, 2009 (LFR 2009d).

3.2 SVE/AS System Demobilization

The SVE/AS system operated in accordance with the Revised CAP (LFR 2009b) from August 17, 2009 to October 27, 2009. As of October 27, 2009 the system was shut down and demobilized to allow for remedial soil excavation activities. The SVE/AS system will not resume operations until the excavations activities are completed. Currently, the estimated time frame for the SVE/AS to resume operations is anticipated to be in late February or early March 2010.

3.3 Waste Management

Waste streams from operation of the SVE/AS system include spent GAC used for vapor abatement and wastewater extracted by the SVE system. During the operations of the SVE/AS system (August through October 2009), approximately 6,000 pounds of GAC were used for abatement of extracted soil vapors. The spent GAC was transported off site and disposed of or reactivated as non-hazardous solid waste by Baker Industries of Pittsburg, California.

Water extracted during operation of the SVE/AS was separated from the vapor stream and temporarily stored in a 3,000-gallon polyethylene storage tank. During the operations of the SVE/AS system (August through October 2009), approximately 10,850 gallons of water were extracted. The wastewater was transported off site by Warren E. Gomes Excavation, Inc., for treatment or disposal as non-hazardous liquid waste by InStrat, Inc., of Rio Vista, California.

4.0 RESULTS AND DISCUSSION

Groundwater samples were collected in October 2009 to provide data to evaluate the effects the operation of the SVE/AS system had on groundwater quality at the Site after operating for approximately two months and before the SVE/AS was demobilized and

soil excavation activities commenced. Analytical results for groundwater samples previously collected in March, May, and August 2009 were used to provide the baseline concentrations for TPHg, BTEX, and fuel oxygenates prior to starting the SVE/AS. Baseline groundwater samples for metals and inorganic parameters were collected in August 2009. Groundwater samples were collected again in September and October 2009 to evaluate the effect of operation of the SVE/AS system.

The following sections summarize the analytical results of the groundwater samples collected during previous monitoring events and compare baseline results to the results of groundwater samples collected after one month of SVE/AS system operation.

4.1 Groundwater Elevations and Gradients

Table 1 presents a summary of groundwater elevations. The groundwater elevation data and contours for the intermediate and deep zones are presented on Figures 3 and 4, respectively.

Groundwater elevations in the shallow groundwater zone were not measured during the current quarter.

Groundwater elevations in the intermediate groundwater zone ranged from 5.26 to 9.51 feet above mean sea level (msl). The groundwater elevation contours indicate that the direction of groundwater flow in the intermediate zone radiated from the east and the north, primarily to the northeast. The gradient of groundwater flow in the intermediate zone ranged from 0.035 to 0.059 vertical feet per linear feet.

Groundwater elevations in the deep groundwater zone range from 6.40 to 9.55 feet above msl. The groundwater elevation contours indicate that the direction of groundwater flow in the deep zone was from north to northeast with a gradient from approximately 0.053 to 0.148 vertical feet to linear feet.

Based on the water-level elevations measured in October 2009, the operation of the SVE/AS system appears to have caused a local variation in groundwater elevations. In the previous quarterly report (LFR 2009d) groundwater gradients and flow direction were relatively flat and generally consistent with the historical gradient and flow direction observed at the Site by LFR during previous monitoring investigations. However, the groundwater elevation data measured on October 21, 2009 indicate that operations related to the SVE/AS system may have lowered the groundwater elevation. The lowered groundwater elevations were evident at wells NW2I and ASMW2I in the intermediate zone and ASMW2D and MW4 in the deep zone. These decreases in the water level elevation were likely the result of the extraction of groundwater by the SVE/AS in the treatment area.

4.2 Analytical Results for TPHg, BTEX, TBA, and MTBE

Groundwater samples were collected from a total of 11 groundwater monitoring and air sparging wells to provide data regarding the progress and effectiveness of remediation of groundwater affected by TPHg, BTEX, TBA, and MTBE at the Site. The wells selected include wells being sampled in accordance with the GWP, as well as wells recently installed to monitor the SVE/AS system. The wells selected include wells screened in the intermediate and deep groundwater zones.

The analytical results of the baseline groundwater samples and samples collected after approximately two months of SVE/AS system operation are summarized in Table 2. The analytical results of groundwater samples collected for TPHg, BTEX, and fuel oxygenates, metals, and inorganic compounds during this monitoring period are summarized in the following sections.

4.2.1 Shallow Zone

Groundwater samples were not collected for shallow-zone wells during the current sampling quarter. Analytical results of samples collected from these wells were provided in the previous quarterly report (LFR 2009d).

4.2.2 Intermediate Zone

Groundwater samples were collected from five intermediate-zone wells following the operation of the SVE/AS for two months. The analytical results for TPHg, BTEX, TBA, and MTBE are summarized in Table 2 and posted for intermediate-zone wells on Figure 5. Elevated concentrations of TPHg, BTEX, MTBE, and/or TBA were present in five of the seven baseline groundwater samples collected from intermediate-zone wells prior to the operation of the SVE/AS. The baseline concentrations of fuel-related compounds detected in the samples collected from wells NW-2I, ASMW-2I, and ASMW-5I, located hydraulically downgradient from the former UST, are consistent with some of the highest concentrations of fuel-related compounds detected in groundwater samples collected at the Site. The analytical results of the groundwater samples collected from these wells after two months of SVE/AS system operation indicate TPHg concentrations were significantly reduced by approximately 91%, 99%, and 69%, respectively (Table 2 and Figure 5).

The data indicate BTEX concentrations were also significantly reduced in each of the samples collected from the five intermediate-zone wells after the SVE/AS operated for two months (Table 2 and Figure 5). Concentrations of TBA significantly decreased in the samples collected from well ASMW2I and remained relatively consistent in samples collected from the other four intermediate-zone wells. It should be noted that the concentrations of BTEX in groundwater at the Site has been reduced as a result of the operation of the SVE/AS.

Concentrations of MTBE decreased by 89% in the samples collected from well NW2I in October relative to September 2009. Concentrations of MTBE remained consistent in samples collected from the other intermediate-zone wells (Table 2 and Figure 5). As with TPHg and BTEX concentrations in groundwater, concentrations of MTBE in groundwater at the Site (other than in the samples collected at well AS6I in September 2009) have been reduced as a result of the operation of the SVE/AS.

4.2.3 Deep Zone

Baseline, one-month, and two-month system operation samples were collected from six deep-zone wells. The analytical results for TPHg, BTEX, TBA, and MTBE are summarized in Table 2 and posted for deep-zone wells on Figure 6. TPHg was not detected above the laboratory reporting limit in any of the samples collected from the deep-zone wells during this monitoring period. BTEX compounds were not detected above the laboratory reporting limit or at concentrations that decreased after the operation of the SVE/AS.

Elevated concentrations of TBA and/or MTBE were present in four of the baseline groundwater samples collected from deep-zone wells (NW2D, MW4, ASMW5D, and ASMW2D; Figure 6). The analytical results of the samples collected from these wells indicate elevated TBA concentrations were significantly reduced to below the laboratory reporting limit in the three wells that previously contained elevated concentrations (NW-2D, ASMW-2D, and ASMW-5D) after the SVE/AS system operation. Concentrations of MTBE decreased in two wells but increased slightly in three wells. MTBE concentrations significantly decreased in the samples collected from wells NW2D, MW4, and ASMW2D located within the treatment area. The analytical results for groundwater samples collected from wells ASMW3D, ASMW4D, and ASMW5D that showed minor fluctuations or increases of MTBE concentrations are located outside the treatment area (Table 2 and Figure 6). These trends will be assessed during future groundwater monitoring events.

4.3 Analytical Results for Metals in Groundwater Samples

Groundwater in ASMW-2D was analyzed for arsenic, hexavalent chromium, total chromium, and selenium to evaluate if operation of the SVE/AS system caused a change in site conditions that would make these metals more soluble in groundwater. The analytical results for metals in the baseline groundwater samples and samples collected after two months of SVE/AS system operation are summarized in Table 3. The analytical results of groundwater samples collected for arsenic, hexavalent chromium, total chromium, and selenium during this monitoring period are summarized in the following sections.

4.3.1 Arsenic

Arsenic was not detected above the laboratory reporting limit in the ASMW-2D sample after two months of SVE/AS system operation. Overall, operation of the SVE/AS system appears to reduce concentrations of arsenic in groundwater at the Site.

4.3.2 Total Chromium and Hexavalent Chromium

Total chromium was detected above the laboratory reporting limit in only one of the 23 baseline or one-month operations samples collected during the previous sampling period (LFR 2009d). Total chromium was detected in the baseline sample collected in August of 2009 from ASMW-2I at a concentration of 6.3 micrograms per liter ($\mu\text{g/L}$). Total chromium was not detected in this well in the groundwater sample collected after one month of operation in September 2009 nor was it detected during the current reporting quarter.

Hexavalent chromium was detected above the laboratory reporting limit in the groundwater sample collected from well ASMW-2D. Hexavalent chromium was detected in the groundwater sample collected from ASMW-2D after two months of system operation at a concentration of 1.1 $\mu\text{g/L}$. Overall, the analytical results for total and hexavalent chromium indicate the groundwater samples collected after two months of system operation are consistent with the baseline groundwater samples. Operation of the SVE/AS system does not appear to affect the solubility of total chromium or hexavalent chromium, nor does it appear that operation of the SVE/AS system causes total chromium to convert to hexavalent chromium.

4.3.3 Selenium

Selenium was not detected above the laboratory reporting limit in any of the baseline groundwater samples. In the previous sampling quarter selenium was detected in groundwater samples collected after one month of system operation in two wells (ASMW-3I and ASMW-2D) at trace levels (10 $\mu\text{g/L}$ and 13 $\mu\text{g/L}$, respectively). Selenium was not detected above laboratory limits in the groundwater sample collected after two months of system operation in ASMW-2D.

Overall, the analytical results for selenium indicate the groundwater samples collected after two months of system operation are consistent with the baseline groundwater samples. Operation of the SVE/AS system does not appear to affect the solubility of selenium in groundwater at the Site.

5.0 CONCLUSIONS

Based on the baseline analytical results of the groundwater samples collected at the Site, the highest concentrations of COCs have been detected in samples collected from wells constructed in the intermediate zone that are located closest to the former UST (Figures 5 and 6). The results of groundwater samples collected from these wells after

two months of operation indicate the SVE/AS system is significantly reducing the concentrations of COCs in groundwater. The results of the SVE/AS system monitoring also indicate the system has removed approximately 480 lbs of mass quantified as TPHg in 52 days of operation.

The analytical results of groundwater samples analyzed for metals indicate that operation of the SVE/AS system does not appear to be causing any additional adverse impacts to groundwater quality.

6.0 RECOMMENDATIONS

Upon completion of demolition and remedial excavation activities (estimated to be in early March 2010), Aspire is planning to restart the SVE/AS system as part of the extended pilot test.

In addition, the extent of fuel-affected groundwater south of well ASMW-51 will be evaluated to assess if additional SVE and AS wells would be needed to remediate groundwater in that portion of the Site.

7.0 SUMMARY AND SCHEDULE

The SVE/AS system was shut down on October 27, 2009 to allow access for site demolition and remedial actions beginning on November 2, 2009. LFR will collect groundwater samples before restarting the SVE/AS system to evaluate for any rebounding of COC concentrations in groundwater. In an effort to reduce project costs and still provide defensible project data LFR is assessing the use of passive diffusion bag samplers to collect the next round of groundwater samples.

The SVE/AS system is tentatively scheduled to be reassembled and restarted after the excavations activities are completed. Currently, the estimated time frame for the SVE/AS to resume operations is anticipated to be in late February or early March 2010. After restarting the system, LFR will resume weekly and monthly system monitoring of extracted soil vapors and groundwater. The monitoring results will be reported in the quarterly monitoring report for October through December 2009, which will be submitted on or before February 15, 2010.

8.0 LIMITATIONS

The opinions and recommendations presented in this report are based upon the scope of services, information obtained through the performance of the services, and the schedule as agreed upon by LFR and the party for whom this report was originally prepared. This report is an instrument of professional service and was prepared in accordance with the generally accepted standards and level of skill and care under similar conditions and circumstances established by the environmental consulting industry. No representation, warranty, or guarantee, expressed or implied, is intended or given. To the extent that LFR relied upon any information prepared by other parties

not under contract to LFR, LFR makes no representation as to the accuracy or completeness of such information. This report is expressly for the sole and exclusive use of the party for whom this report was originally prepared for a particular purpose. Only the party for whom this report was originally prepared and/or other specifically named parties have the right to make use of and rely upon this report. Reuse of this report or any portion thereof for other than its intended purpose, or if modified, or if used by third parties, shall be at the user's sole risk.

Results of any investigations or testing and any findings presented in this report apply solely to conditions existing at the time when LFR's investigative work was performed. It must be recognized that any such investigative or testing activities are inherently limited and do not represent a conclusive or complete characterization. Conditions in other parts of the Site may vary from those at the locations where data were collected. LFR's ability to interpret investigation results is related to the availability of the data and the extent of the investigation activities. As such, 100% confidence in environmental investigation conclusions cannot reasonably be achieved.

LFR, therefore, does not provide any guarantees, certifications, or warranties regarding any conclusions regarding environmental contamination of any such property. Furthermore, nothing contained in this document shall relieve any other party of its responsibility to abide by contract documents and applicable laws, codes, regulations, or standards.

9.0 REFERENCES

- LFR Inc. (LFR). 2008a. Work Plan to Conduct an Air Injection and Soil-Vapor Extraction Pilot Test at the Former Pacific Electric Motors Site, 1009 66th Avenue, Oakland, California (Fuel Leak Case No. RO0000411). September 23.
- . 2008b. Air Sparging and Soil-Vapor Extraction Pilot Test Completion Report at the Former Pacific Electric Motors Site, 1009 66th Avenue, Oakland, California (Fuel Leak Case No. RO0000411). November 21.
- . 2009a. Groundwater Monitoring Report for the Period from January 1 through March 31, 2009, Former Pacific Electric Motors Site, 1009 66th Avenue, Oakland, California (Fuel Leak Case Number RO0000411). May 15.
- . 2009b. Revised Corrective Action Plan, Proposed Aspire School Site, 1009 66th Avenue, Oakland, California (Fuel Leak Case No. RO0000411). July 17.
- . 2009c. Groundwater Monitoring Report for the Period from April 1 through June 30, 2009, Former Pacific Electric Motors Site, 1009 66th Avenue, Oakland, California (Fuel Leak Case Number RO0000411). August 14.

———. 2009d. Groundwater Monitoring Report and Soil-Vapor Extraction/Air Sparging System Construction and Initial Operation Report for the Period July 1 through September 30, 2009, Former Pacific Electric Motors Site, 1009 66th Avenue, Oakland, California (Fuel Leak Case Number RO0000411). November 13.

Puls, Robert W., and Michael J. Barcelona. 1996. Ground Water Issue Low-Flow (Minimal Drawdown) Ground-Water Sampling Procedures. EPA/540/S-95/504. April.

Table 1
Groundwater Elevations
Former Pacific Electric Motors Facility
1009 66th Avenue, Oakland, California

Sample Location	Date Collected	Top-of-Casing Elevation ⁽¹⁾	Depth to Groundwater ⁽²⁾	Groundwater Elevation ⁽¹⁾
Shallow-Zone Groundwater Monitoring Wells				
NW-1S	11-Mar-09	13.88	2.15	11.73
	26-May-09		3.53	10.35
	21-Sep-09		4.70	9.18
NW-2S	11-Mar-09	13.77	3.77	10.00
	26-May-09		3.63	10.14
	21-Sep-09		3.98	9.79
NW-3S	11-Mar-09	13.19	NM	NM
	26-May-09		2.98	10.21
	21-Sep-09		3.57	9.62
SVMW-3	21-Sep-09	13.76	4.41	9.35
SVMW-4	21-Sep-09	13.23	4.67	8.56
Intermediate-Zone Groundwater Monitoring Wells¹				
NW-1I ¹	11-Mar-09	13.83	2.40	11.43
	26-May-09		3.71	10.12
	21-Sep-09		NM	NM
NW-2I ¹	11-Mar-09	13.80	5.86	7.94
	26-May-09		4.08	9.72
	10-Aug-09		5.96	7.84
	21-Sep-09		5.21	8.59
	21-Oct-09		8.54	5.26
NW-3I ¹	11-Mar-09	13.11	NM	NM
	26-May-09		3.27	9.84
	21-Sep-09		4.48	8.63
ASMW-2I	11-Mar-09	13.90	2.67	11.23
	26-May-09		4.02	9.88
	10-Aug-09		4.77	9.13
	21-Sep-09		5.39	8.51
	21-Oct-09		7.8	6.10
ASMW-3I	11-Mar-09	13.73	2.72	11.01
	26-May-09		3.88	9.85
	10-Aug-09		4.63	9.10
	21-Sep-09		5.38	8.35
	21-Oct-09		5.74	7.99
ASMW-4I	11-Mar-09	13.09	2.06	11.03
	26-May-09		3.22	9.87
	10-Aug-09		3.96	9.13
	21-Sep-09		4.44	8.65
	21-Oct-09		3.58	9.51
ASMW-5I	11-Mar-09	13.16	2.14	11.02
	26-May-09		3.26	9.90
	10-Aug-09		3.95	9.21
	21-Sep-09		4.43	8.73
	21-Oct-09		6.86	6.30
AS-1I	26-May-09	NS	3.87	--

**Table 1
Groundwater Elevations
Former Pacific Electric Motors Facility
1009 66th Avenue, Oakland, California**

Sample Location	Date Collected	Top-of-Casing Elevation ⁽¹⁾	Depth to Groundwater ⁽²⁾	Groundwater Elevation ⁽¹⁾
AS-2I	26-May-09	14.09	4.20	9.89
	21-Sep-09	(*)	10.30	3.79
AS-3I	26-May-09	14.10	4.07	10.03
AS-4I	26-May-09	13.52	3.68	9.84
AS-5I	26-May-09	13.63	3.84	9.79
AS-6I	26-May-09	13.10	3.14	9.96
	21-Sep-09	(*)	3.96	9.14
AS-7I	26-May-09	13.44	3.56	9.88
	21-Sep-09	(*)	5.13	8.31
AS-8I	26-May-09	13.45	3.56	9.89
	21-Sep-09	(*)	4.79	8.66
Deep-Zone Groundwater Monitoring Wells				
MW-1	11-Mar-09	14.19	2.25	11.94
	26-May-09		3.82	10.37
MW-2	11-Mar-09	13.31	2.13	11.18
	26-May-09		3.45	9.86
	21-Sep-09		4.67	8.64
MW-3	11-Mar-09	13.43	2.32	11.11
	26-May-09		3.62	9.81
	21-Sep-09		4.86	8.57
MW-4	11-Mar-09	13.78	2.63	11.15
	26-May-09		3.91	9.87
	10-Aug-09		4.71	9.07
	21-Sep-09		5.18	8.60
	21-Oct-09		6.28	7.50
NW-1D	11-Mar-09	13.84	2.81	11.03
	26-May-09		3.65	10.19
NW-2D	11-Mar-09	13.79	2.68	11.11
	26-May-09		3.97	9.82
	10-Aug-09		4.73	9.06
	21-Sep-09		5.13	8.66
	21-Oct-09		4.13	9.66
NW-3D	11-Mar-09	13.16	NM	NM
	26-May-09		3.32	9.84
	21-Sep-09		4.51	8.65
ASMW-2D	11-Mar-09	13.90	3.06	10.84
	26-May-09		4.15	9.75
	10-Aug-09		4.92	8.98
	21-Sep-09		5.22	8.68
	21-Oct-09		7.5	6.40
ASMW-3D	11-Mar-09	13.94	2.98	10.96
	26-May-09		4.32	9.62
	11-Aug-09		4.97	8.97
	21-Sep-09		5.36	8.58
	21-Oct-09		4.65	9.29

Table 1
Groundwater Elevations
Former Pacific Electric Motors Facility
1009 66th Avenue, Oakland, California

Sample Location	Date Collected	Top-of-Casing Elevation ⁽¹⁾	Depth to Groundwater ⁽²⁾	Groundwater Elevation ⁽¹⁾
ASMW-4D	11-Mar-09	13.07	1.93	11.14
	26-May-09		3.22	9.85
	11-Aug-09		4.01	9.06
	21-Sep-09		4.45	8.62
	21-Oct-09		3.52	9.55
ASMW-5D	11-Mar-09	13.01	1.88	11.13
	26-May-09		3.16	9.85
	10-Aug-09		3.93	9.08
	21-Sep-09		4.30	8.71
	21-Oct-09		3.56	9.45
AS-1D	26-May-09	NS	3.75	--
AS-2D	26-May-09	14.16	4.35	9.81
	21-Sep-09	(*)	5.46	8.70
AS-3D	26-May-09	13.79	3.96	9.83
AS-4D	26-May-09	13.70	3.88	9.82
AS-5D	26-May-09	14.06	4.26	9.80
AS-6D	26-May-09	13.25	NM	NM
AS-7D	26-May-09	13.67	3.82	9.85
AS-8D	26-May-09	13.35	3.55	9.80

Notes:

NM = water level not measured

NS = not surveyed

(*) Top of casing obscured by sparge/extraction fitting; top-of-casing value estimated

(1) Top-of-casing elevation surveyed by Tronoff & Associates licensed land surveyor number 6415; top-of-casing and groundwater elevations are in North American vertical datum 1988 (feet)

(2) feet below the top of well casing

Table 2
Analytical Results for Volatile Organic Compounds
Former Pacific Electric Motors Facility
1009 66th Avenue, Oakland, California
(concentrations in micrograms per liter [µg/L])

Sample Location	Date Collected	Notes	TPHg	TBA	MTBE	Benzene	Toluene	Ethyl-benzene	m,p-Xylenes	o-Xylenes	Total Xylenes
Shallow-Zone Groundwater Monitoring Wells											
NW-1S	27-Dec-05		< 50	NA	0.55	< 0.50	< 0.50	< 0.50	NA	NA	< 0.50
	13-Mar-09		< 50	< 10	0.55	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	23-Sep-09		< 50	< 10	< 0.50	< 0.50	0.69	< 0.50	0.59	< 0.50	0.59
NW-2S	27-Dec-05		7,100	NA	1,600	570	570	62	NA	NA	1,530
	13-Mar-09		1,800	1,900	130	520	< 4.2	120	20	< 4.2	20
	23-Sep-09		15,000	5,100	11,000	610	800	41	1,500	2,300	3,800
NW-3S	26-May-09		< 50	< 10	2.6	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	21-Sep-09		< 50	< 10	4.1	< 0.50	0.58	< 0.50	< 0.50	< 0.50	< 0.50
Intermediate-Zone Groundwater Monitoring Wells											
ASMW-2I	13-Mar-09		49,000	3,200	1,100	18,000	17,000	1,600	5,100	3,100	8,200
	23-Sep-09		< 1,000	13,000	290	< 10	13	< 10	39	31	70
	22-Oct-09		< 50	370	290	< 0.50	4.6	< 0.50	9	11	20
ASMW-3I	11-Mar-09		< 50	< 10	1.4	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	22-Sep-09		< 50	< 10	3.4	< 0.50	1.4	< 0.50	< 0.50	< 0.50	< 0.50
	22-Oct-09		< 50	< 10	6.9	< 0.50	1.4	< 0.50	< 0.50	< 0.50	< 0.50
ASMW-4I	11-Mar-09		9,200	< 130	< 6.3	38	< 6.3	570	1,800	230	2,030
	23-Sep-09		1,900	< 130	< 6.3	8.1	< 6.3	130	120	26	146
	22-Oct-09		1,900	< 10	< 0.50	4.0	1	75	110	23	133
ASMW-5I	11-Mar-09		72,000	< 1,400	76	11,000	3,600	3,800	13,000	5,400	18,400
	10-Aug-09		59,000	< 1400	91	9,100	1,800	2,400	8,300	3,900	12,200
	22-Sep-09		15,000	210	78	1,100	250	280	2,000	1,200	3,200
	22-Oct-09		22,000	330	110	560	330	240	3,000	1,600	4,600
NW-2I	27-Dec-05		120,000	NA	120,000	22,000	24,000	2,100	NA	NA	12,800
	13-Mar-09		49,000	NA	1,100	18,000	17,000	1,600	NA	NA	8,200
	23-Sep-09		12,000	5,500	3,000	980	820	220	1,200	660	1,860
	22-Oct-09		4,200	3,300	330	110	110	5.8	400	250	650
NW-3I	27-Dec-05		< 50	NA	< 2.0	< 0.50	< 0.50	< 0.50	NA	NA	< 0.50

Table 2
Analytical Results for Volatile Organic Compounds
Former Pacific Electric Motors Facility
1009 66th Avenue, Oakland, California
(concentrations in micrograms per liter [µg/L])

Sample Location	Date Collected	Notes	TPHg	TBA	MTBE	Benzene	Toluene	Ethyl-benzene	m,p-Xylenes	o-Xylenes	Total Xylenes
	15-Feb-06		< 50	NA	< 2.0	< 0.50	< 0.50	< 0.50	NA	NA	< 0.50
	15-Feb-06		< 50	NA	< 2.0	< 0.50	< 0.50	< 0.50	NA	NA	< 0.50
	16-Feb-06		< 50	NA	< 2.0	< 0.50	< 0.50	< 0.50	NA	NA	< 0.50
	21-Sep-09		< 50	< 10	1.3	< 0.50	0.54	< 0.50	< 0.50	< 0.50	< 0.50
AS-2I	22-Sep-09		< 8,300	2,900	11,000	460	120	< 83	130	< 83	130
AS-6I	26-May-09		42,000	< 1,000	170	11,000	780	2,400	7,300	2,900	10,200
	23-Sep-09		26,000	330	1,600	1,000	400	230	4,000	1,300	5,300
AS-7I	26-May-09		< 50	35	2.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	23-Sep-09		< 50	< 10	0.8	< 0.50	0.95	< 0.50	< 0.50	< 0.50	< 0.50
AS-8I	23-Sep-09		< 50	< 10	1.0	< 0.50	1.6	< 0.50	< 0.50	< 0.50	< 0.50
Deep-Zone Groundwater Monitoring Wells											
ASMW-2D	11-Mar-09		< 1,300	1,900	1,300	< 13	< 13	< 13	< 13	< 13	< 13
	23-Sep-09		< 360	< 71	460	< 3.6	< 3.6	< 3.6	5.7	4.7	10.4
	22-Oct-09		< 50	< 10	1.9	< 0.50	1.4	< 0.50	1.9	2.1	4
ASMW-3D	11-Mar-09		< 50	34	91	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	22-Sep-09	(4)	< 50	28	280	< 0.50	1.1	< 0.50	0.68	0.87	1.55
	22-Oct-09		< 50	< 10	310	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
ASMW-4D	11-Mar-09		< 50	< 10	1.4	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	21-Sep-09	(1)	< 50	< 10	5.4	< 0.50	1.5	< 0.50	< 0.50	< 0.50	< 0.50
	22-Oct-09		< 50	< 10	6.1	< 0.50	0.5	< 0.50	< 0.50	< 0.50	< 0.50
ASMW-5D	11-Mar-09	(2)	87	1,700	< 0.50	84	< 0.50	5.2	5.9	1.5	7.4
	21-Sep-09		< 50	< 10	72	< 0.50	2.8	< 0.50	< 0.50	< 0.50	< 0.50
	22-Oct-09		< 50	< 10	76	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
duplicate	22-Oct-09		< 50	< 10	5.1	< 0.50	0.8	< 0.50	< 0.50	< 0.50	< 0.50
AS-2D	22-Sep-09		< 50	< 10	13	< 0.50	0.8	< 0.50	< 0.50	< 0.50	< 0.50
NW-1D	27-Dec-05		< 50	NA	37	< 0.50	< 0.50	< 0.50	NA	NA	< 0.50
	13-Mar-09		< 50	< 10	1.4	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

Table 2
Analytical Results for Volatile Organic Compounds
Former Pacific Electric Motors Facility
1009 66th Avenue, Oakland, California
(concentrations in micrograms per liter [µg/L])

Sample Location	Date Collected	Notes	TPHg	TBA	MTBE	Benzene	Toluene	Ethyl-benzene	m,p-Xylenes	o-Xylenes	Total Xylenes
NW-2D duplicate	27-Dec-05		1,400	NA	1,600	300	13	<2.5	NA	NA	178
	13-Mar-09		<250	17,000	310	120	<2.5	<2.5	<2.5	<2.5	<2.5
	22-Sep-09	(3)	<50	<10	9.8	0.5	2.5	<0.50	2.0	2.1	4.1
	22-Sep-09		<50	<10	12	<0.50	1.4	<0.50	1.9	1.3	3.2
	22-Oct-09		<50	<10	<0.50	<0.50	0.8	<0.50	<0.50	<0.50	<0.50
NW-3D	27-Dec-05		<50	NA	<2.0	<0.5	<0.5	<0.5	NA	NA	<0.5
	15-Feb-06		<50	NA	<2.0	<0.5	<0.5	<0.5	NA	NA	<0.5
	15-Feb-06		<50	NA	2.1	<0.5	<0.5	<0.5	NA	NA	<0.5
	16-Feb-06		<50	NA	<2.0	<0.5	<0.5	<0.5	NA	NA	<0.5
	21-Sep-09		<50	<10	1.0	<0.50	0.67	<0.50	<0.50	<0.50	<0.50
MW-1	19-Jun-97		18,000	NA	4,900	3,300	200.0	1,100	NA	NA	<250
	29-Sep-97		29,000	NA	3,500	4,800	<25	2,000	NA	NA	<250
	16-Dec-97		<0.050	NA	0.7	1.3	<0.5	0.6	NA	NA	<5.0
	10-Mar-98		190	NA	1.7	2	<0.5	5.7	NA	NA	<5.0
	19-Jan-99		100	NA	68.0	40	<0.5	18.0	NA	NA	8.3
	15-Apr-99		<0.050	NA	0.87	0.92	0.9	0.7	NA	NA	<5.0
	30-Jul-99		1,400	NA	120	60	<0.5	63	NA	NA	13.0
	15-Nov-99		3,600	NA	620	120	<0.5	150	NA	NA	<5.0
	24-Mar-00		<0.050	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	<5.0
	18-May-00		1,300	NA	130.0	10	1.2	38.0	NA	NA	8.6
	26-Jul-00		6,400	NA	680	100	7.4	260	NA	NA	<5.0
	30-Oct-00		600	NA	950	130	14	330	NA	NA	<100
	24-Jul-01		1,200	NA	39	13	<0.5	70	NA	NA	13
	28-Nov-01		1,800	NA	160	27	0.93	72	NA	NA	<5.0
	18-Feb-02		2,400	NA	200	18	<2.5	89	NA	NA	<25
	11-Dec-02		8,400	NA	640	83	9.2	320	NA	NA	<0.5
	26-Feb-03		8,300	NA	720	12	<10	240	NA	NA	<10
16-May-03		5,600	NA	490	22	<5.0	240	NA	NA	<5.0	
8-Mar-05		230	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	<5.0	
13-Mar-09		<50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	

Table 2
Analytical Results for Volatile Organic Compounds
Former Pacific Electric Motors Facility
1009 66th Avenue, Oakland, California
(concentrations in micrograms per liter [µg/L])

Sample Location	Date Collected	Notes	TPHg	TBA	MTBE	Benzene	Toluene	Ethyl-benzene	m,p-Xylenes	o-Xylenes	Total Xylenes
	26-May-09		<50	<10	<0.50	<0.50	0.67	<0.50	<0.50	<0.50	<0.50
duplicate	26-May-09		<50	<10	<0.50	<0.50	0.62	<0.50	<0.50	<0.50	<0.50
MW-2	19-Jun-97		<50	NA	<5.0	<0.5	<0.5	<0.5	NA	NA	<0.5
	29-Sep-97		--	NA	<5.0	<0.5	<0.5	<0.5	NA	NA	<0.5
	16-Dec-97		--	NA	<5.0	<0.5	<0.5	<0.5	NA	NA	<0.5
	10-Mar-98		<50	NA	<5.0	<0.5	<0.5	<0.5	NA	NA	<0.5
	19-Jan-99		<50	NA	<5.0	<0.5	<0.5	<0.5	NA	NA	<0.5
	15-Apr-99		<50	NA	<5.0	0.75	0.64	<0.5	NA	NA	0.74
	30-Jul-99		<50	NA	<5.0	<0.5	<0.5	<0.5	NA	NA	<0.5
	15-Nov-99		<50	NA	<5.0	<0.5	<0.5	<0.5	NA	NA	<0.5
	24-Mar-00		<50	NA	<5.0	<0.5	<0.5	<0.5	NA	NA	<0.5
	18-May-00		<50	NA	<5.0	<0.5	<0.5	<0.5	NA	NA	<0.5
	26-Jul-00		<50	NA	<5.0	<0.5	<0.5	<0.5	NA	NA	<0.5
	30-Oct-00		<50	NA	<5.0	<0.5	<0.5	<0.5	NA	NA	<0.5
	24-Jul-01		<50	NA	7.6	<0.5	<0.5	<0.5	NA	NA	<0.5
	28-Nov-01		<50	NA	<5.0	<0.5	<0.5	<0.5	NA	NA	<0.5
	18-Feb-02		<50	NA	<5.0	<0.5	<0.5	<0.5	NA	NA	<0.5
	11-Dec-02		<50	NA	5.8	<0.5	<0.5	<0.5	NA	NA	<1.0
	26-Feb-03		<50	NA	10	<0.5	<0.5	<0.5	NA	NA	<1.0
	16-May-03		<50	NA	16	<0.5	<0.5	<0.5	NA	NA	<1.0
	9-Mar-05		<50	NA	15	<0.5	<0.5	<0.5	NA	NA	<0.5
	15-Feb-06		<50	NA	19	<0.5	<0.5	<0.5	NA	NA	<0.5
	15-Feb-06		<50	NA	6.8	<0.5	<0.5	<0.5	NA	NA	<0.5
	16-Feb-06		<50	NA	5.6	<0.5	<0.5	<0.5	NA	NA	<0.5
	13-Mar-09		<50	<10	2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	26-May-09		<50	<10	3.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	21-Sep-09		<50	<10	3.4	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
MW-3	19-Jun-97		<50	NA	<5.0	<0.5	<0.5	<0.5	NA	NA	<0.5
	29-Sep-97		<50	NA	<5.0	<0.5	<0.5	<0.5	NA	NA	<0.5
	16-Dec-97		<50	NA	<5.0	<0.5	<0.5	<0.5	NA	NA	<0.5

Table 2
Analytical Results for Volatile Organic Compounds
Former Pacific Electric Motors Facility
1009 66th Avenue, Oakland, California
(concentrations in micrograms per liter [µg/L])

Sample Location	Date Collected	Notes	TPHg	TBA	MTBE	Benzene	Toluene	Ethyl-benzene	m,p-Xylenes	o-Xylenes	Total Xylenes
	10-Mar-98		< 50	NA	< 5.0	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5
	19-Jan-99		< 50	NA	8.7	0.78	< 0.5	< 0.5	NA	NA	< 0.5
	15-Apr-99		< 50	NA	23	5.4	3.9	1.7	NA	NA	5.6
	30-Jul-99		< 50	NA	< 5.0	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5
	15-Nov-99		< 50	NA	< 5.0	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5
	24-Mar-00		< 50	NA	< 5.0	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5
	18-May-00		< 50	NA	< 5.0	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5
	26-Jul-00		< 50	NA	< 5.0	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5
	30-Oct-00		< 50	NA	< 5.0	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5
	24-Jul-01		< 50	NA	< 5.0	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5
	28-Nov-01		< 50	NA	< 5.0	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5
	18-Feb-02		< 50	NA	< 5.0	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5
	11-Dec-02		< 50	NA	0.78	< 0.5	< 0.5	< 0.5	NA	NA	< 1.0
	26-Feb-03		< 50	NA	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	< 1.0
	16-May-03		< 50	NA	2.6	< 0.5	< 0.5	< 0.5	NA	NA	< 1.0
	8-Mar-05		< 50	NA	< 2	< 0.5	< 0.5	< 0.5	NA	NA	< 0.5
	13-Mar-09		< 50	< 10	< 0.50	< 0.50	< 0.50	< 0.50	0.97	< 0.50	0.97
	22-Sep-09		< 50	< 10	0.89	< 0.50	1.1	< 0.5	< 0.5	< 0.50	< 0.50
MW-4	15-Sep-98		170,000	NA	26,000	26,000	32,000	2,900	NA	NA	18,000
	19-Jan-99		2,600	NA	13,000	1,700	3.8	25	NA	NA	29
	15-Apr-99		210,000	NA	52,000	28,000	15,000	3,700	NA	NA	19,000
	30-Jul-99		91,000	NA	68,000	16,000	7,500	2,300	NA	NA	8,500
	15-Nov-99		63,000	NA	57,000	8,500	2,400	1,400	NA	NA	4,000
	24-Mar-00		95,000	NA	44,000	16,000	13,000	2,500	NA	NA	12,000
	18-May-00		91,000	NA	64,000	15,000	10,000	2,200	NA	NA	9,600
	26-Jul-00		130,000	NA	80,000	11,000	6,400	1,700	NA	NA	6,500
	30-Oct-00		59,000	NA	68,000	6,700	2,200	750	NA	NA	3,100
	24-Jul-01		180,000	NA	44,000	25,000	23,000	3,500	NA	NA	20,000
	28-Nov-01		67,000	NA	57,000	8,100	3,300	1,400	NA	NA	5,600
	18-Feb-02		98,000	NA	47,000	20,000	12,000	2,300	NA	NA	15,000

Table 2
Analytical Results for Volatile Organic Compounds
Former Pacific Electric Motors Facility
1009 66th Avenue, Oakland, California
(concentrations in micrograms per liter [$\mu\text{g/L}$])

Sample Location	Date Collected	Notes	TPHg	TBA	MTBE	Benzene	Toluene	Ethyl-benzene	m,p-Xylenes	o-Xylenes	Total Xylenes
	11-Dec-02		200,000	NA	17,000	340	< 5.00	590	NA	NA	1,000
	26-Feb-03		63,000	NA	30,000	8,100	4,400	1,900	NA	NA	8,200
	16-May-03		530,000	NA	42,000	24,000	20,000	12,000	NA	NA	63,000
	9-Mar-05		152,237	NA	5,841	22,053	17,310	3,981	NA	NA	13,969
	9-Mar-05		162,863	NA	6,026	21,536	16,547	3,900	NA	NA	13,786
	13-Mar-09		55,000	< 1,400	950	19,000	7,200	2,300	8,500	3,500	12,000
	23-Sep-09		250	730	49	51	3.7	8.6	37	16	53
	22-Oct-09		< 50	< 10	3.7	< .50	1.3	< 0.50	< 0.50	< 0.50	< 0.50

Notes:

NA = not analyzed

TPHg = total petroleum hydrocarbons as gasoline

TBA = tertiary-butyl alcohol

MTBE = methyl tertiary-butyl ether

1,2-DCA = 1,2-dichloroethane

"<" = not detected above the laboratory reporting limit given

Samples collected in March 2009 were analyzed by Curtis & Tompkins, Ltd.

(1) 1,2-DCA results = 0.79 $\mu\text{g/L}$

(2) 1,2-DCA results = 0.88 $\mu\text{g/L}$

(3) 1,2-DCA results = 0.58 $\mu\text{g/L}$

(4) 1,2-DCA results = 0.77 $\mu\text{g/L}$

Table 3
Analytical Results for Metals in Groundwater
Former Pacific Electric Motors Facility
1009 66th Avenue, Oakland, California
(concentrations in micrograms per liter)

Sample Location	Date Collected	Total Chromium	Hexavalent Chromium	Total Iron	Ferrous Iron	Ferric Iron	Arsenic	Selenium	Manganese
Shallow-Zone Groundwater Monitoring Wells									
NW-1S	NS	--	--	--	--	--	--	--	--
NW-2S	NS	--	--	--	--	--	--	--	--
NW-3 S	NS	--	--	--	--	--	--	--	--
Intermediate-Zone Groundwater Monitoring Wells									
ASMW-2I	10-Aug-09	6.3	<0.5	26,000	25,000	390	23	<10	15,000
	23-Sep-09	<5	<0.5	<100	<100	<100	<5.0	<10	<5.0
ASMW-3I	11-Aug-09	<5.0	<0.5	<100	<100	<100	<5.0	<10	7,500
	22-Sep-09	<5.0	<0.5	<100	<100	<100	11	10	6,000
ASMW-4I	11-Aug-09	<5.0	<0.5	2,000	950	1,100	16	<10	3,600
	23-Sep-09	<5	<0.5	3,300	2,800	460	11	<10	4,200
ASMW-5I	10-Aug-09	<5.0	<0.5	7,300	5,200	2,100	14	<10	7,000
	22-Sep-09	<5.0	<0.5	770	610	150	10	<10	4,000
NW-2I	11-Aug-09	<5.0	<0.5	11,000	11,000	480	17	<10	1,800
	23-Sep-09	<5	<0.5	18,000	4,300	14,000	15	<10	4,000
Deep-Zone Groundwater Monitoring Wells									
ASMW-2D	10-Aug-09	<5	<0.5	<100	<100	<100	9.8	<10	4,400
	23-Sep-09	<5	1.7	<100	<100	<100	12	13	7,200
	22-Oct-09	<5	1.1	NS	NS	NS	<5.0	<10	NS
ASMW-3D	11-Aug-09	<5.0	<0.5	350	<100	350	<5.0	<10	3,400
	22-Sep-09	<5.0	<0.5	<100	<100	<100	9.7	<10	460
ASMW-4D	11-Aug-09	<5.0	<0.5	<100	<100	<100	<5.0	<10	1,200
	21-Sep-09	<5.0	<0.5	<100	<100	<100	<5.0	<10	610
ASMW-5D	11-Aug-09	<5.0	<0.5	170	<100	170	<5.0	<10	2,200
	21-Sep-09	<0.5	<0.5	<100	<100	<100	<5.0	<10	7.2
NW-2D	10-Aug-09	<5.0	<0.5	<100	<100	<100	<5.0	<10	800
	22-Sep-09	<5.0	<0.5	<100	<100	<100	<5.0	<10	<5.0
	22-Sep-09 (duplicate)	<5.0	<0.5	<100	<100	<100	<5.0	<10	<5.0
MW-4	10-Aug-09	<5.0	<0.5	8,200	6,900	1,300	<5.0	<10	2,200
	23-Sep-09	<5	<0.5	1,000	1,100	<100	7.5	<10	2,300

Note:

NS = not sampled

Table 4
Field Parameters
Former Pacific Electric Motors Facility
1009 66th Avenue, Oakland, California
(concentrations in micrograms per liter)

Sample Location	Date Collected	Temperature (degrees Celsius)	Conductivity (mmhos/cm)	pH (units)	Oxygen Reduction Potential millivolts (mV)	Dissolved Oxygen (percent)
Shallow-Zone Groundwater Monitoring Wells						
NW-1S	23-Sep-09	23.84	764	6.42	-14.00	0.31
NW-2S	23-Sep-09	25.55	1,696	6.67	-30.10	0.20
NW-3S	21-Sep-09	21.60	681	6.43	118.90	0.75
Intermediate-Zone Groundwater Monitoring Wells						
ASMW-2I	10-Aug-09	23.49	4,195	6.21	-61.1	0.18
	23-Sep-09	21.89	6,769	6.85	170.1	5.33
	22-Oct-09	22.35	6,742	7.14	240.6	5.83
ASMW-3I	11-Aug-09	22.72	8,284	6.42	62.4	0.20
	22-Sep-09	23.57	5,342	6.58	122.4	0.36
	22-Oct-09	23.49	5,232	6.64	101.8	0.71
ASMW-4I	11-Aug-09	21.11	939	6.79	-95.2	0.19
	23-Sep-98	21.82	969	6.76	-127.1	0.19
	22-Oct-09	21.74	910	6.74	-59.3	0.14
ASMW-5I	10-Aug-09	24.39	1,296	6.59	-74.7	0.38
	21-Sep-09	23.46	1,183	6.71	-3.1	0.11
	22-Oct-09	23.33	951	6.85	-6.6	0.46
AS-2I	22-Sep-09	23.85	4,803	7.10	55.0	0.94
AS-6I	23-Sep-09	23.21	872	7.09	16.7	0.16
AS-7I	23-Sep-09	21.51	3,137	7.33	186.9	5.73
AS-8I	23-Sep-09	21.91	755	7.91	149.1	4.81
NW-2I	11-Aug-09	23.63	2,800	6.43	-73.0	0.38
	23-Sep-09	23.92	1,511	7.44	-34.7	0.38
	22-Oct-09	23.54	1,336	7.65	193.9	3.45
MW-3I	21-Sep-09	20.49	1,772	6.74	191.5	0.49
Deep-Zone Groundwater Monitoring Wells						
ASMW-2D	10-Aug-09	22.62	10,240	6.27	192.2	0.33
	23-Sep-09	22.15	1,850	7.27	164.9	9.12

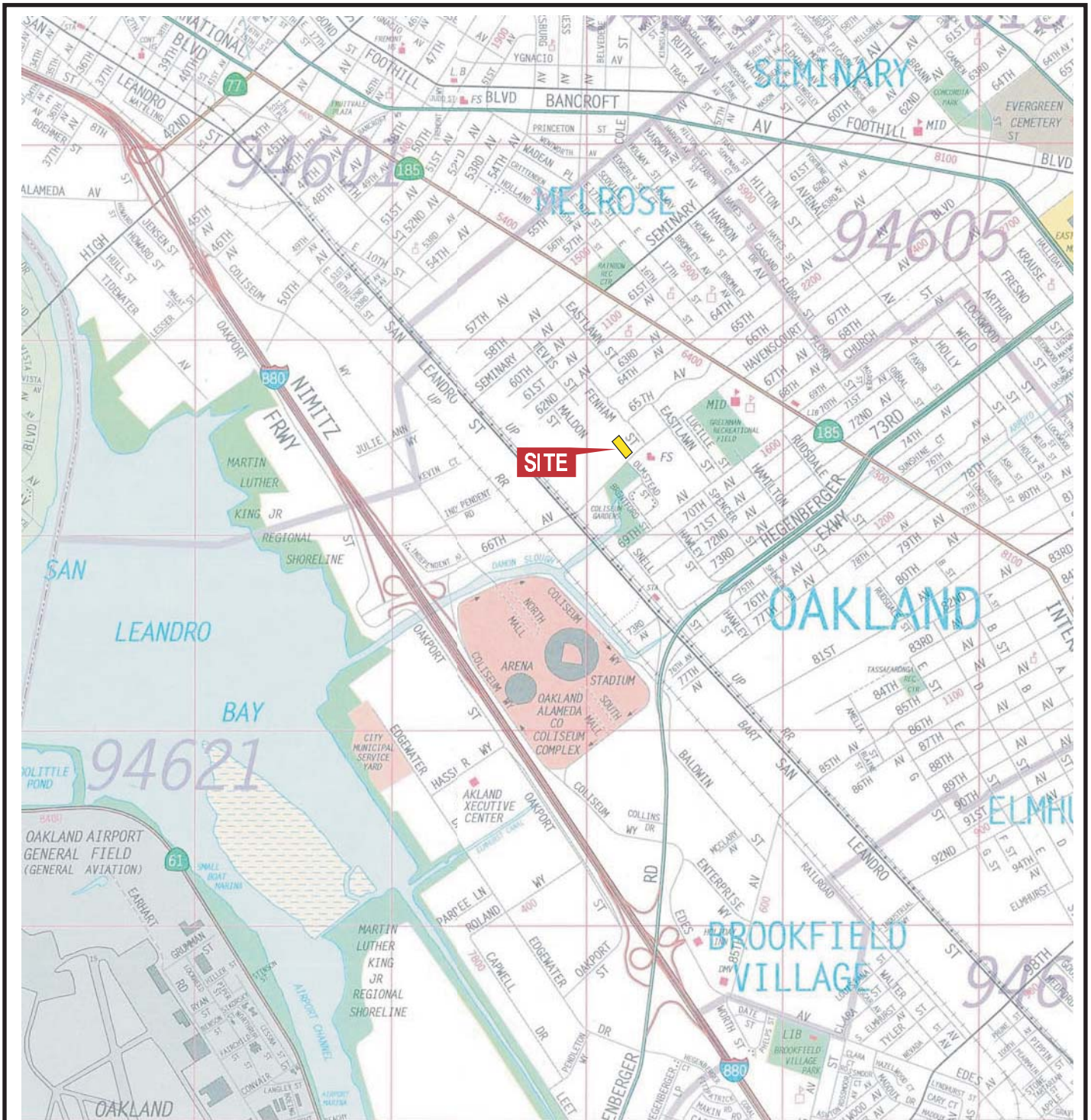
Table 4
Field Parameters
Former Pacific Electric Motors Facility
1009 66th Avenue, Oakland, California
(concentrations in micrograms per liter)

Sample Location	Date Collected	Temperature (degrees Celsius)	Conductivity (mmhos/cm)	pH (units)	Oxygen Reduction Potential millivolts (mV)	Dissolved Oxygen (percent)
	22-Oct-09	21.27	1,157	7.30	140.5	9.20
ASMW-3D	11-Aug-09	20.37	9,767	6.25	122.9	0.20
	22-Sep-09	20.92	9,727	6.37	162.0	1.57
	22-Oct-09	20.69	7,757	6.39	252.0	1.77
ASMW-4D	11-Aug-09	19.70	1,408	6.67	172.9	0.15
	21-Sep-09	20.79	1,804	6.70	172.3	0.17
	22-Oct-09	20.17	1,889	6.85	331.8	0.32
ASMW-5D	11-Aug-09	20.18	1,876	6.58	47.8	0.11
	21-Sep-09	21.74	1,751	6.70	133.4	2.85
	22-Oct-09	20.87	1,766	6.82	2330.0	4.44
AS-2D	22-Sep-09	20.48	1,151	7.36	142.9	8.61
NW-2D	10-Aug-09	22.06	1,179	6.37	93.2	0.22
	22-Sep-09	22.19	759	6.63	174.1	4.55
	22-Oct-09	21.48	199	6.70	175.0	6.40
NW-3D	21-Sep-09	19.53	821	6.87	198.8	0.24
MW-2	21-Sep-09	19.39	1,052	6.74	149.6	0.25
MW-3	22-Sep-09	19.62	3,104	6.67	113.3	0.15
MW-4	10-Aug-09	23.99	1,309	6.50	-82.4	0.28
	23-Sep-09	21.94	1,394	6.79	-36.7	0.41
	22-Oct-09	22.12	1,289	7.19	229.1	4.35
SVMW-3	22-Sep-09	24.56	4,719	6.54	27.8	0.40
SVMW-4	21-Sep-09	24.38	2,034	6.86	-14.0	0.68

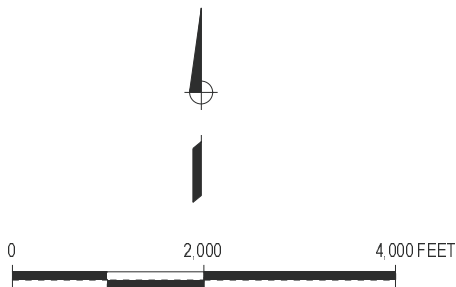
Notes:

ORP = oxidation-reduction potential

mmhos/cm = milliohms per centimeter



MAP SOURCE: Copyright 1995, Thomas Bros. Map ALAMEDA COUNTY 2002 Edition



1009 66TH AVENUE, OAKLAND, CALIFORNIA







SITE VICINITY MAP



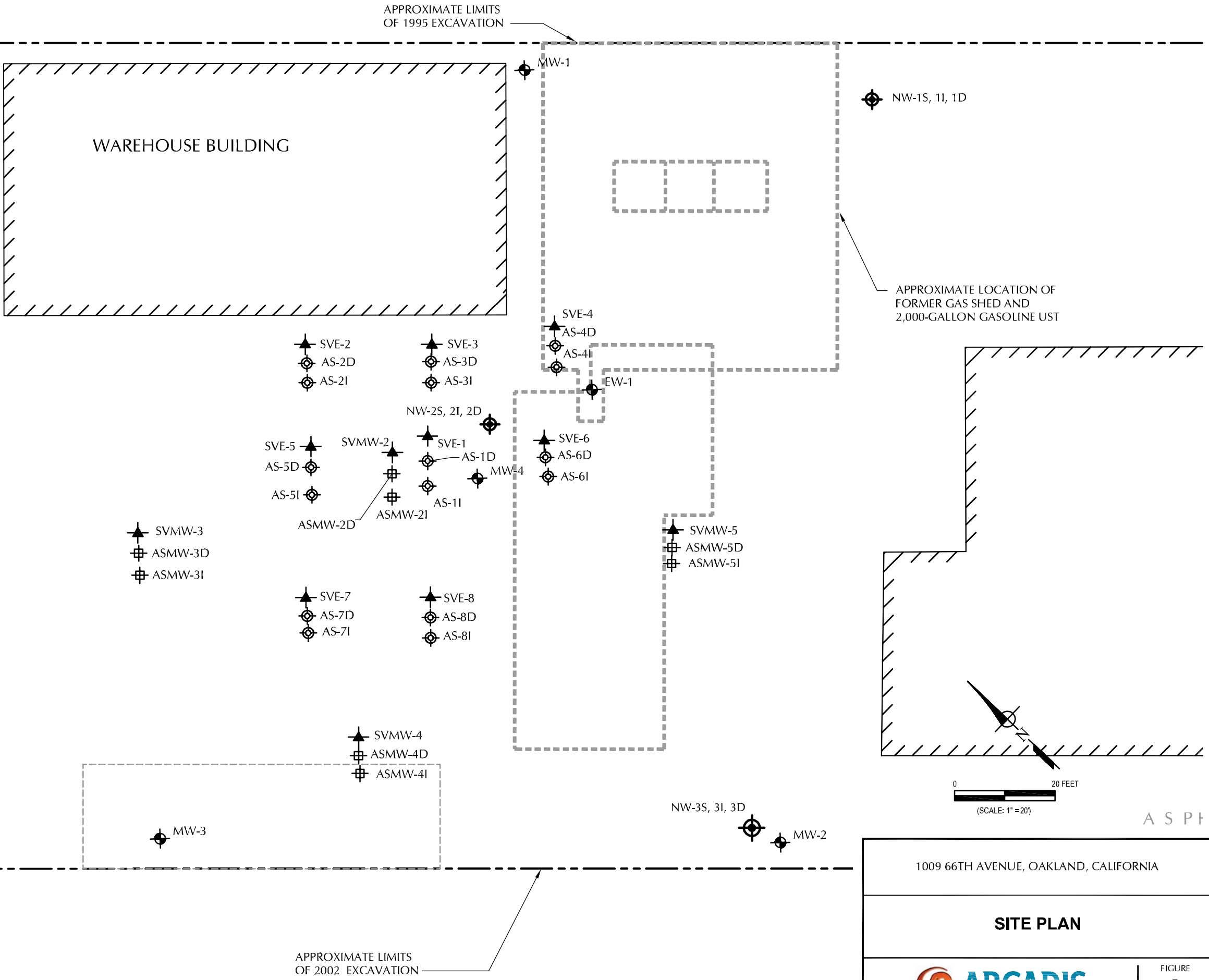
FIGURE
1

CITY: (Reqd) DIV: (Reqd) LD: (Reqd) PIC: (Reqd) PWT: (Reqd) TMI: (Opt) LVR: (Opt) ON: *OFF = REF*
E:\Design\03\0915\02\003\AD\VC\1009 66th Ave Oakland - 4rd QTR 2009.dwg LAYOUT: 2. SAVED: 1/28/2010 1:08 PM
ACADVER: 17.15 (LWS TECH) PAGES: 17. PLOTSTYLETABLE: LERSTANDARD.CTB PLOTED: 1/28/2010 1:56 PM BY: BEARDSLEY, DANIEL

EXPLANATION:

-  MW-1 Monitoring Well
-  NW-1 Nested Monitoring Wells
-  AS-4D Air Injection Well
-  ASMW-3I Air Injection Monitoring Well
-  SVE-4 SVE or SVE Monitoring Well
-  Property Line

NOTES:
SVE = soil-vapor extraction



1009 66TH AVENUE, OAKLAND, CALIFORNIA

SITE PLAN



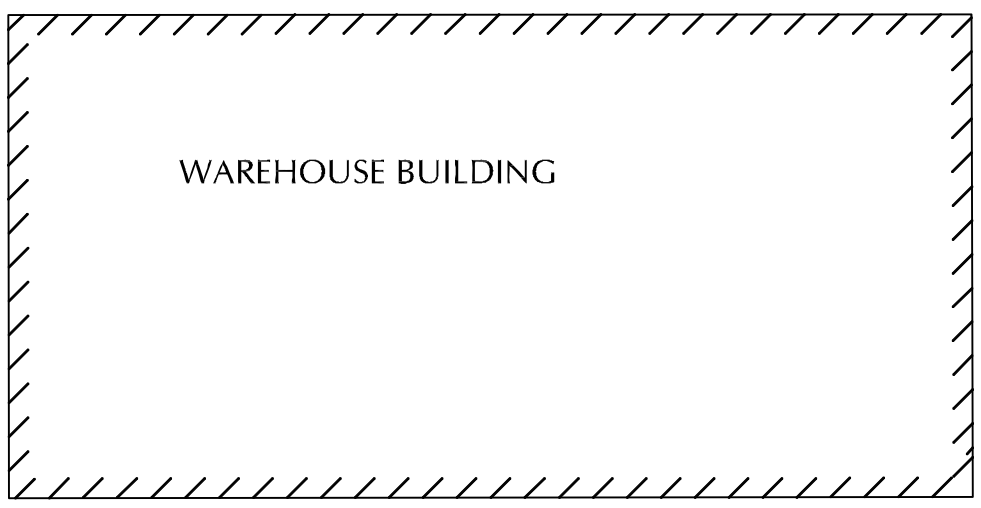
FIGURE
2

CITY:\Redd\DIV\GROUP\1\5\3\2\003\DWG\1009 66th Ave Oakland - Int QIR 2009.dwg PLOTDATE: 2/11/2010 9:52 AM BY: BEARDSLEY, DANIEL
PROJECTNAME: 1009 66TH AVENUE, OAKLAND, CALIFORNIA
XREFS: IMAGES: Deep.dwg

APPROXIMATE LIMITS OF 1995 EXCAVATION

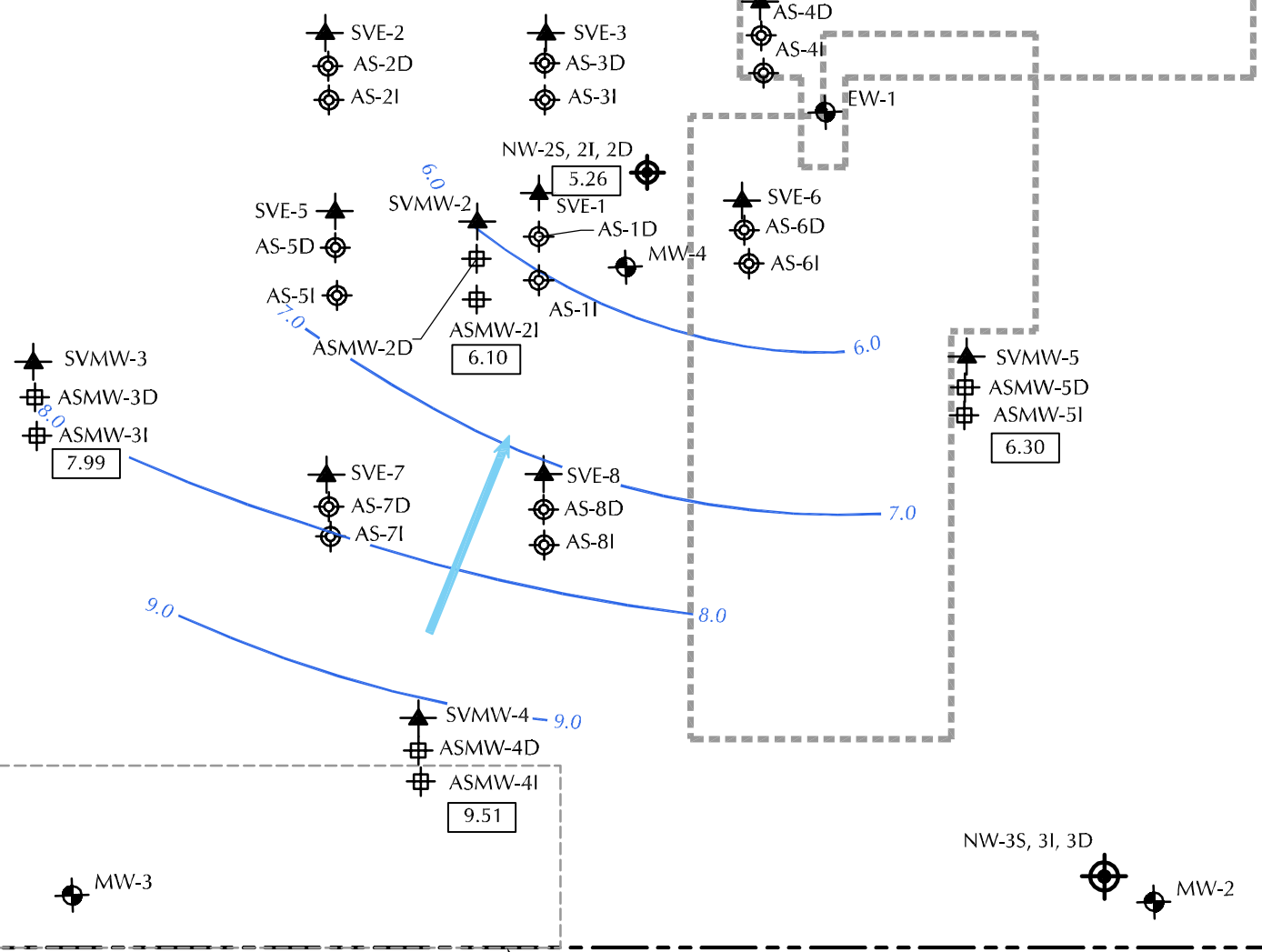
- EXPLANATION:**
- MW-1 Monitoring Well
 - NW-1 Nested Monitoring Wells
 - AS-4D Air Injection Well
 - ASMW-3I Air Injection Monitoring Well
 - SVE-4 SVE or SVE Monitoring Well
 - Property Line
 - 9.81 Groundwater Elevation Data
 - Groundwater Elevation Contour
 - Direction of Groundwater Flow

NOTE:
SVE = soil-vapor extraction

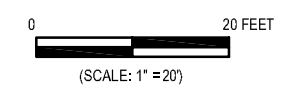
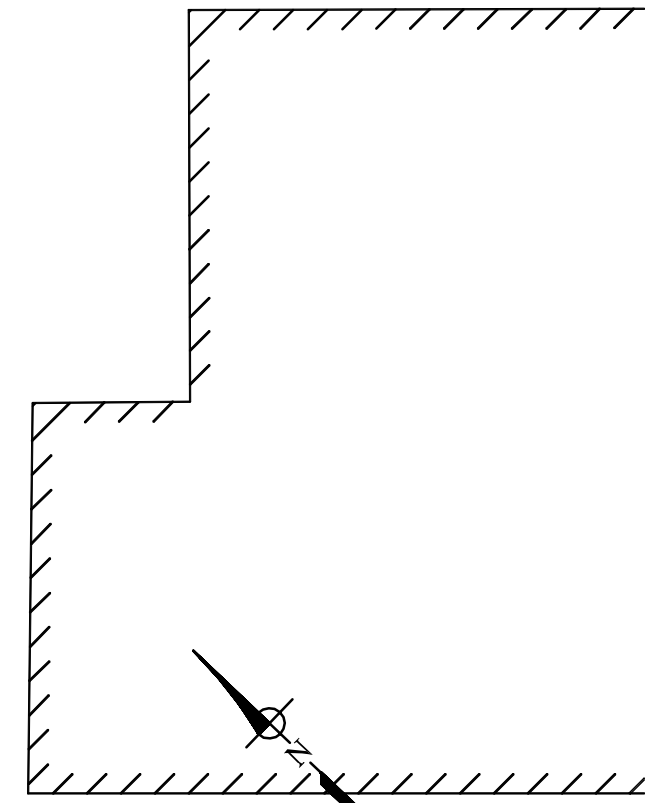


NW-1S, 1I, 1D

APPROXIMATE LOCATION OF FORMER GAS SHED AND 2,000-GALLON GASOLINE UST



APPROXIMATE LIMITS OF 2002 EXCAVATION












A S P T

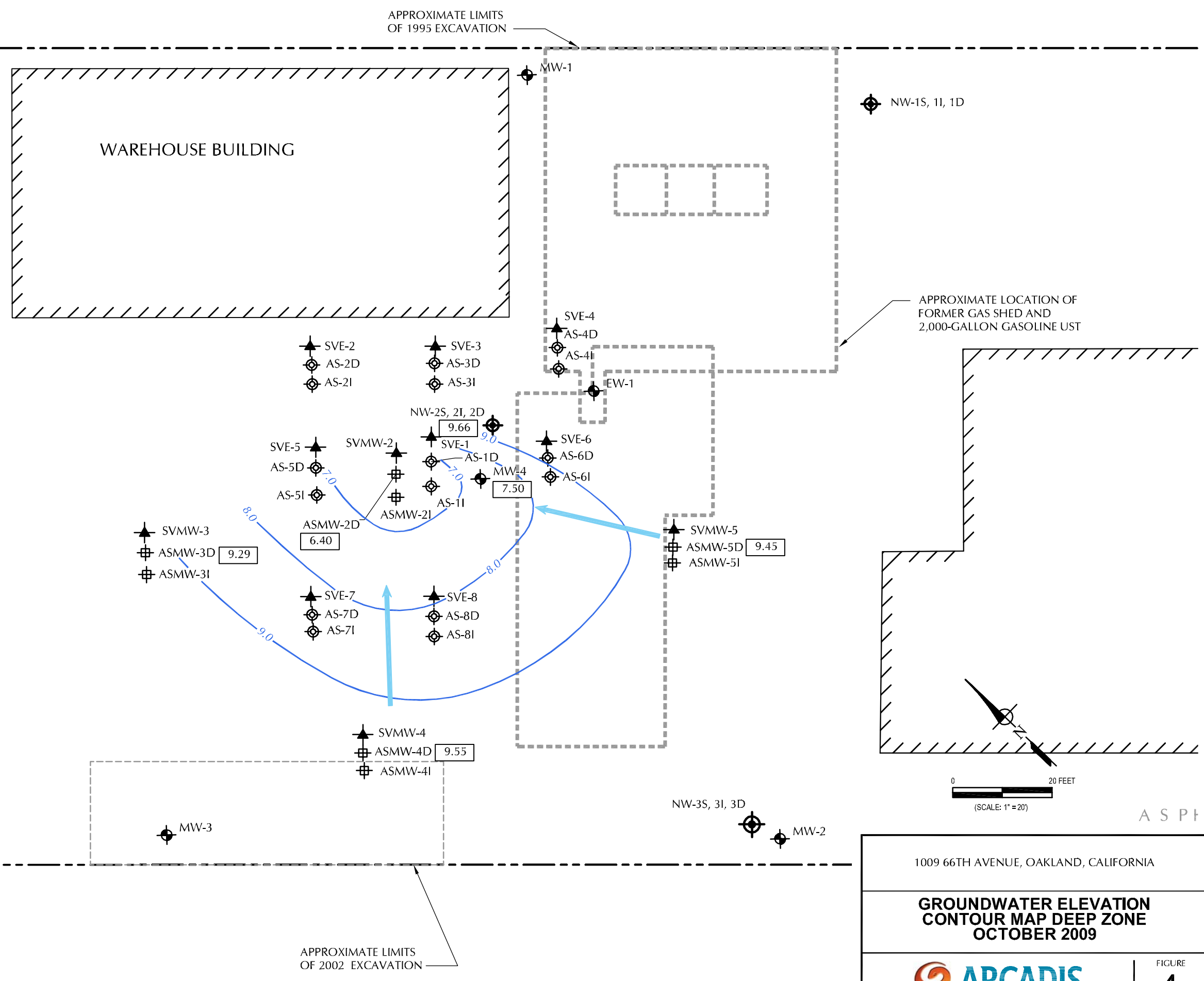
1009 66TH AVENUE, OAKLAND, CALIFORNIA

**GROUNDWATER ELEVATION
CONTOUR MAP INTERMEDIATE ZONE
OCTOBER 2009**

FIGURE 3

CITY:\REQD\ DIV\GROUP:\REQD\ DB:\REQD\ LD:\REQD\ PIC:\REQD\ P:\REQD\ T:\REQD\ L:\REQD\ M:\REQD\ N:\REQD\ O:\REQD\ P:\REQD\ Q:\REQD\ R:\REQD\ S:\REQD\ T:\REQD\ U:\REQD\ V:\REQD\ W:\REQD\ X:\REQD\ Y:\REQD\ Z:\REQD\ \
 I:\Design\03\0915\5\2\003\AD\VCV\009 66th Ave Oakland - 4rd QTR 2009.dwg LAYOUT: 4. SAVED: 2/10/2010 5:25 PM ACADVER: 17.15 (LMS TECH) PAGES: 17.15 (LMS TECH) PLOTSETUP: 1. PLOTSTYLETABLE: LERSTANDARD.CTB PLOTTED: 2/11/2010 9:54 AM BY: BEARDSLEY, DANIEL

- EXPLANATION:**
-  MW-1 Monitoring Well
 -  NW-1 Nested Monitoring Wells
 -  AS-4D Air Injection Well
 -  ASMW-3I Air Injection Monitoring Well
 -  SVE-4 SVE or SVE Monitoring Well
 -  Property Line
 -  9.81 Groundwater Elevation Data
 -  Groundwater Elevation Contour (dashed where inferred)
 -  Direction of Groundwater Flow
- NOTE:**
SVE = soil-vapor extraction



1009 66TH AVENUE, OAKLAND, CALIFORNIA

**GROUNDWATER ELEVATION
CONTOUR MAP DEEP ZONE
OCTOBER 2009**




FIGURE
4

CITY: (Reqd) DIV: (Group) (Reqd) DB: (Reqd) LD: (Opt) PIC: (Reqd) PW: (Reqd) TMI: (Opt) LVR: (Opt) ON: *OFF* REF*
 I:\Design\03\09\15\02\003\AD\AV\009\009\66th Ave Oakland - 4rd QTR 2009.dwg LAYOUT: 5. SAVED: 2/11/2010 2:12 PM
 ACADVER: 17.1S (LMS TECH) PAGES: 17. PLOTSTYLETABLE: LERSTANDARD.CTB PAGES: 17. PLOTTED: 2/12/2010 9:43 AM BY: BEARDSLEY, DANIEL

EXPLANATION:

- MW-1 Monitoring Well
- NW-1 Nested Monitoring Wells
- AS-4D Air Injection Well
- ASMW-3I Air Injection Monitoring Well
- SVE-4 SVE or SVE Monitoring Well

Property Line

LOCATION ID

Date sample taken

AS-7I	26-May-09
TPHg	< 50

Concentration in micrograms per liter

Chemical

22-Sept-09 Denotes sample collected after the soil vapor extraction air sparging groundwater treatment system began operation

NOTES:

TPHg = total petroleum hydrocarbons as gasoline

TBA = tertiary butyl alcohol

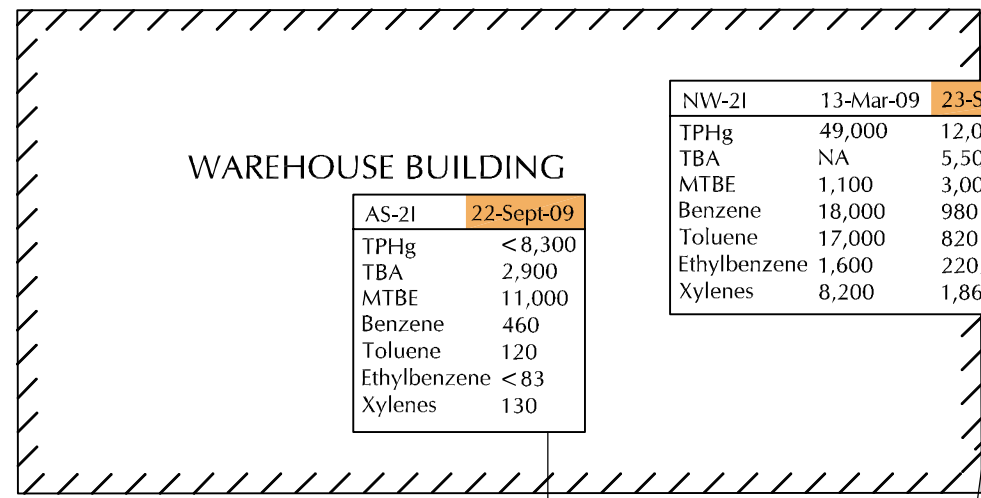
MTBE = methyl tertiary-butyl ether

"<" = not detected above the laboratory reporting limit given

SVE = soil-vapor extraction

VOCs = volatile organic compounds

APPROXIMATE LIMITS OF 1995 EXCAVATION



AS-2I	22-Sept-09
TPHg	< 8,300
TBA	2,900
MTBE	11,000
Benzene	460
Toluene	120
Ethylbenzene	< 83
Xylenes	130

NW-2I	13-Mar-09	23-Sept-09	22-Oct-09
TPHg	49,000	12,000	4,200
TBA	NA	5,500	3,300
MTBE	1,100	3,000	330
Benzene	18,000	980	110
Toluene	17,000	820	110
Ethylbenzene	1,600	220	5.8
Xylenes	8,200	1,860	650

NW-1S, 1I, 1D

APPROXIMATE LOCATION OF FORMER GAS SHED AND 2,000-GALLON GASOLINE UST

ASMW-3I	11-Mar-09	22-Sept-09	22-Oct-09
TPHg	< 50	< 50	< 50
TBA	< 10	< 10	< 10
MTBE	1.4	3.4	6.9
Benzene	< 0.50	< 0.50	< 0.50
Toluene	< 0.50	1.4	1.4
Ethylbenzene	< 0.50	< 0.50	< 0.50
Xylenes	< 0.50	< 0.50	< 0.50

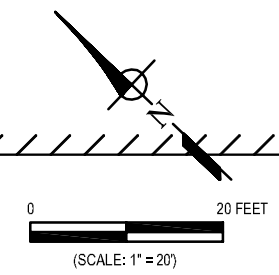
AS-6I	26-May-09	23-Sept-09
TPHg	42,000	26,000
TBA	< 1,000	330
MTBE	170	1,600
Benzene	11,000	1,000
Toluene	780	400
Ethylbenzene	2,400	230
Xylenes	10,200	5,300

ASMW-5I	11-Mar-09	10-Aug-09	22-Sept-09	22-Oct-09
TPHg	72,000	59,000	15,000	22,000
TBA	< 1,400	< 1,400	210	330
MTBE	76	91	78	110
Benzene	11,000	9,100	1,100	560
Toluene	3,600	1,800	250	330
Ethylbenzene	3,800	2,400	280	240
Xylenes	18,400	12,200	3,200	4,600

AS-7I	26-May-09	23-Sept-09
TPHg	< 50	< 50
TBA	35	< 10
MTBE	2.5	0.8
Benzene	< 0.50	< 0.50
Toluene	< 0.50	0.95
Ethylbenzene	< 0.50	< 0.50
Xylenes	< 0.50	< 0.50

ASMW-4I	11-Mar-09	23-Sept-09	22-Oct-09
TPHg	9,200	1,900	1,900
TBA	< 130	< 130	< 10
MTBE	< 6.3	< 6.3	< 0.50
Benzene	38	8.1	4.0
Toluene	< 6.3	< 6.3	1.0
Ethylbenzene	570	130	75
Xylenes	2,030	146	133

ASMW-2I	13-Mar-09	23-Sept-09	22-Oct-09
TPHg	49,000	< 1,000	< 50
TBA	3,200	13,000	370
MTBE	1,100	290	290
Benzene	18,000	< 10	< 0.50
Toluene	17,000	13	4.6
Ethylbenzene	1,600	< 10	< 0.50
Xylenes	8,200	70	20



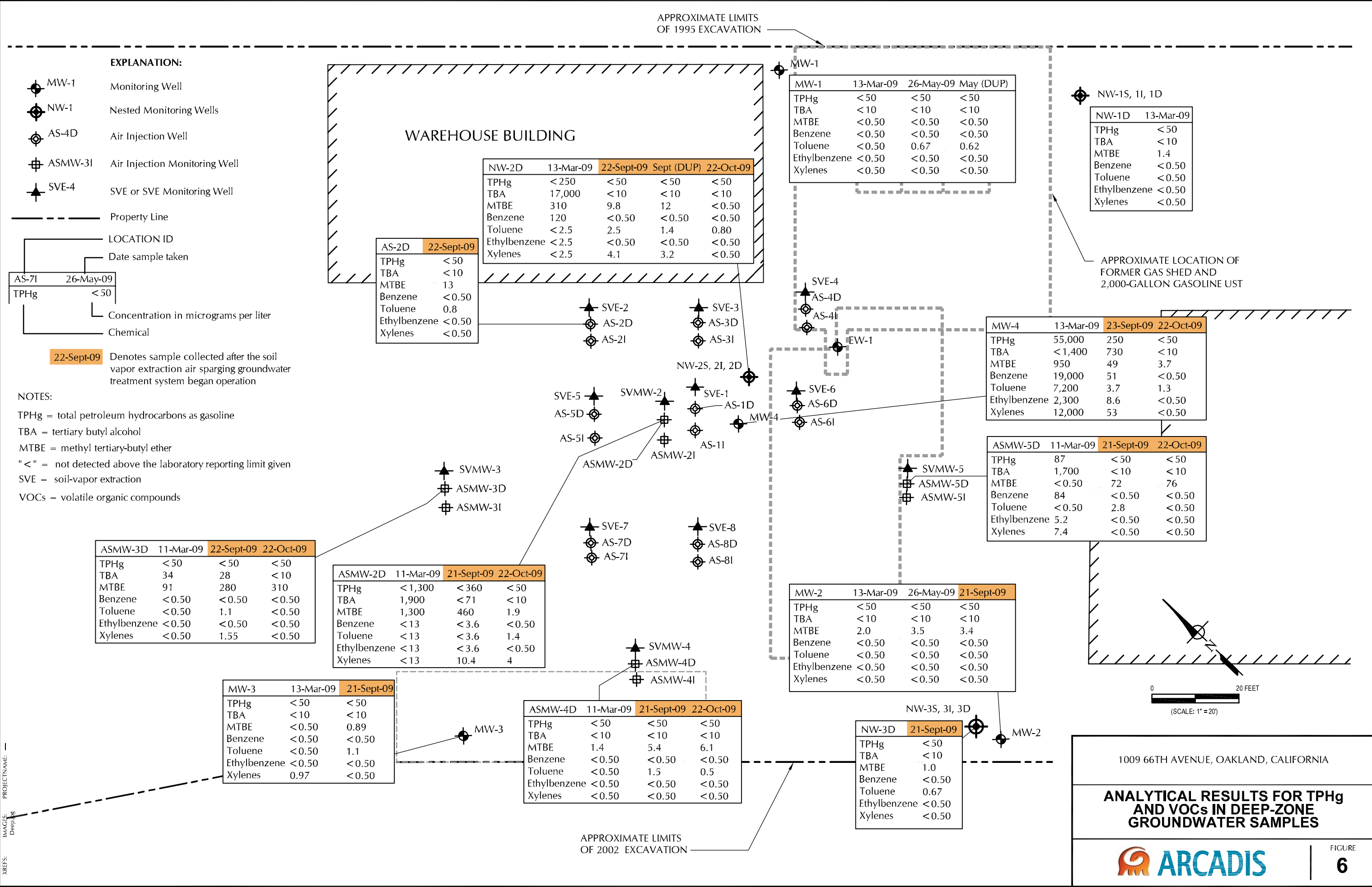
APPROXIMATE LIMITS OF 2002 EXCAVATION

1009 66TH AVENUE, OAKLAND, CALIFORNIA

ANALYTICAL RESULTS FOR TPHg AND VOCs IN INTERMEDIATE-ZONE GROUNDWATER SAMPLES



CITY: (Reqd) DIV: (Reqd) LD: (Reqd) PIC: (Reqd) PWT: (Reqd) TMI: (Opt) LVR: (Opt) ON: *OFF = REF*
 I:\Design\03\0915\02\003\03\000\009\009\66th Ave Oakland - 4rd QTR 2009.dwg LAYOUT: 6. SAVED: 2/11/2010 10:49 AM ACADVER: 17.15 (LMS TECH) PAGES: 17. PLOTSTYLETABLE: LFR STANDARD.CTB PLOTTED: 2/11/2010 2:10 PM BY: BEARDSLEY, DANIEL



LOCATION ID	Date sample taken	Concentration in micrograms per liter	Chemical
AS-7I	26-May-09	< 50	TPHg

NW-2D	13-Mar-09	22-Sept-09	Sept (DUP)	22-Oct-09
TPHg	< 250	< 50	< 50	< 50
TBA	17,000	< 10	< 10	< 10
MTBE	310	9.8	12	< 0.50
Benzene	120	< 0.50	< 0.50	< 0.50
Toluene	< 2.5	2.5	1.4	0.80
Ethylbenzene	< 2.5	< 0.50	< 0.50	< 0.50
Xylenes	< 2.5	4.1	3.2	< 0.50

MW-1	13-Mar-09	26-May-09	May (DUP)
TPHg	< 50	< 50	< 50
TBA	< 10	< 10	< 10
MTBE	< 0.50	< 0.50	< 0.50
Benzene	< 0.50	< 0.50	< 0.50
Toluene	< 0.50	0.67	0.62
Ethylbenzene	< 0.50	< 0.50	< 0.50
Xylenes	< 0.50	< 0.50	< 0.50

NW-1D	13-Mar-09
TPHg	< 50
TBA	< 10
MTBE	1.4
Benzene	< 0.50
Toluene	< 0.50
Ethylbenzene	< 0.50
Xylenes	< 0.50

AS-2D	22-Sept-09
TPHg	< 50
TBA	< 10
MTBE	13
Benzene	< 0.50
Toluene	0.8
Ethylbenzene	< 0.50
Xylenes	< 0.50

MW-4	13-Mar-09	23-Sept-09	22-Oct-09
TPHg	55,000	250	< 50
TBA	< 1,400	730	< 10
MTBE	950	49	3.7
Benzene	19,000	51	< 0.50
Toluene	7,200	3.7	1.3
Ethylbenzene	2,300	8.6	< 0.50
Xylenes	12,000	53	< 0.50

ASMW-5D	11-Mar-09	21-Sept-09	22-Oct-09
TPHg	87	< 50	< 50
TBA	1,700	< 10	< 10
MTBE	< 0.50	72	76
Benzene	84	< 0.50	< 0.50
Toluene	< 0.50	2.8	< 0.50
Ethylbenzene	5.2	< 0.50	< 0.50
Xylenes	7.4	< 0.50	< 0.50

ASMW-3D	11-Mar-09	22-Sept-09	22-Oct-09
TPHg	< 50	< 50	< 50
TBA	34	28	< 10
MTBE	91	280	310
Benzene	< 0.50	< 0.50	< 0.50
Toluene	< 0.50	1.1	< 0.50
Ethylbenzene	< 0.50	< 0.50	< 0.50
Xylenes	< 0.50	1.55	< 0.50

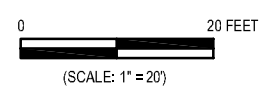
ASMW-2D	11-Mar-09	21-Sept-09	22-Oct-09
TPHg	< 1,300	< 360	< 50
TBA	1,900	< 71	< 10
MTBE	1,300	460	1.9
Benzene	< 13	< 3.6	< 0.50
Toluene	< 13	< 3.6	1.4
Ethylbenzene	< 13	< 3.6	< 0.50
Xylenes	< 13	10.4	4

MW-2	13-Mar-09	26-May-09	21-Sept-09
TPHg	< 50	< 50	< 50
TBA	< 10	< 10	< 10
MTBE	2.0	3.5	3.4
Benzene	< 0.50	< 0.50	< 0.50
Toluene	< 0.50	< 0.50	< 0.50
Ethylbenzene	< 0.50	< 0.50	< 0.50
Xylenes	< 0.50	< 0.50	< 0.50

MW-3	13-Mar-09	21-Sept-09
TPHg	< 50	< 50
TBA	< 10	< 10
MTBE	< 0.50	0.89
Benzene	< 0.50	< 0.50
Toluene	< 0.50	1.1
Ethylbenzene	< 0.50	< 0.50
Xylenes	0.97	< 0.50

ASMW-4D	11-Mar-09	21-Sept-09	22-Oct-09
TPHg	< 50	< 50	< 50
TBA	< 10	< 10	< 10
MTBE	1.4	5.4	6.1
Benzene	< 0.50	< 0.50	< 0.50
Toluene	< 0.50	1.5	0.5
Ethylbenzene	< 0.50	< 0.50	< 0.50
Xylenes	< 0.50	< 0.50	< 0.50

NW-3D	21-Sept-09
TPHg	< 50
TBA	< 10
MTBE	1.0
Benzene	< 0.50
Toluene	0.67
Ethylbenzene	< 0.50
Xylenes	< 0.50



APPENDIX A

Laboratory Analytical Reports



Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878





Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

**Laboratory Job Number 215916
ANALYTICAL REPORT**

LFR Levine Fricke
1900 Powell Street
Emeryville, CA 94608

Project : 003-09155-02
Location : Aspire Schools
Level : II

<u>Sample ID</u>	<u>Lab ID</u>
NW-2I	215916-001
ASMW-2I	215916-002
ASMW-3I	215916-003
ASMW-4I	215916-004
ASMW-5I	215916-005
MW-4	215916-006
NW-2D	215916-007
ASMW-2D	215916-008
ASMW-3D	215916-009
ASMW-4D	215916-010
ASMW-5D	215916-011
DUP-1	215916-012
TRIP BLANK	215916-013

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: _____

Project Manager

Date: 10/28/2009

NELAP # 01107CA

CASE NARRATIVE

Laboratory number: 215916
Client: LFR Levine Fricke
Project: 003-09155-02
Location: Aspire Schools
Request Date: 10/22/09
Samples Received: 10/22/09

This data package contains sample and QC results for twelve water samples, requested for the above referenced project on 10/22/09. The samples were received cold and intact. All data were e-mailed to Eric Ehlers on 10/28/09.

Volatile Organics by GC/MS (EPA 8260B):

High surrogate recoveries were observed for toluene-d8 in ASMW-3D (lab # 215916-009) and the method blank/BS/BSD for batch 156462. No other analytical problems were encountered.

Curtis & Tompkins, Ltd.

Analytical Laboratory Since 1878

2323 Fifth Street
Berkeley, CA 94710
(510) 486-0900 Phone
(510) 486-0532 Fax

CHAIN OF CUSTODY

Analysis

C & T LOGIN #: 215916

Sampler: K. Johnson

Project No.: 003-09155-02 Report To: ERIC EHLERS

Project Name: Aspire Schools Company: LFR

Project P.O.: _____ Telephone: 510-596-9555

Turnaround Time: Standard Fax: _____

Lab No.	Sample ID.	Sampling Date Time (2007)	Matrix			# of Containers	Preservative				TPH g -8260 d	BTXE -8260 d	Fuel Oxygenate -8260 d
			Soil	Water	Waste		HCL	H ₂ SO ₄	HNO ₃	ICE			
1	NW-2I	10/22 0920		X		3	X			X			
2	ASMW-2I	10/21 1100											
3	ASMW-3I	10/21 1220											
4	ASMW-4I	10/22 1115											
5	ASMW-5I	10/22 0935											
6	MW-4	10/21 1015											
7	NW-2D	10/21 1335											
8	ASMW-2D	10/22 1220											
9	ASMW-3D	10/21 1140											
10	ASMW-4D	10/22 1030											
11	ASMW-5D	10/21 1450											
12	Dup-1	10/21 0800											
13	Trip Blank	-				2							

Notes:

SAMPLE RECEIPT
 Intact Cold
 On Ice Ambient
 Preservative Correct?
 Yes No N/A

RELINQUISHED BY:
K. Johnson
 10/22 1440
 DATE / TIME

RECEIVED BY:
Pat Langley
 10/22/07 1440
 DATE / TIME

SIGNATURE

COOLER RECEIPT CHECKLIST



Curtis & Tompkins, Ltd.

Login # 215916 Date Received 10-22 Number of coolers 1
Client LFR Project Aspire Schools

Date Opened 10-22 By (print) Elias T (sign) Elias T
Date Logged in 10-22 By (print) Elias T (sign) Elias T

1. Did cooler come with a shipping slip (airbill, etc) YES NO
Shipping info

2A. Were custody seals present? ... YES (circle) on cooler on samples NO
How many Name Date

2B. Were custody seals intact upon arrival? YES NO N/A

3. Were custody papers dry and intact when received? YES NO

4. Were custody papers filled out properly (ink, signed, etc)? YES NO

5. Is the project identifiable from custody papers? (If so fill out top of form) YES NO

6. Indicate the packing in cooler: (if other, describe)

- Bubble Wrap, Foam blocks, Bags, None, Cloth material, Cardboard, Styrofoam, Paper towels

7. Temperature documentation:

Type of ice used: Wet Blue/Gel None Temp(C)

Samples Received on ice & cold without a temperature blank

Samples received on ice directly from the field. Cooling process had begun

8. Were Method 5035 sampling containers present? YES NO
If YES, what time were they transferred to freezer?

9. Did all bottles arrive unbroken/unopened? YES NO

10. Are samples in the appropriate containers for indicated tests? YES NO

11. Are sample labels present, in good condition and complete? YES NO

12. Do the sample labels agree with custody papers? YES NO

13. Was sufficient amount of sample sent for tests requested? YES NO

14. Are the samples appropriately preserved? YES NO N/A

15. Are bubbles > 6mm absent in VOA samples? YES NO N/A

16. Was the client contacted concerning this sample delivery? YES NO

If YES, Who was called? By Date:

COMMENTS

Blank lines for handwritten comments.

Gasoline by GC/MS			
Lab #:	215916	Location:	Aspire Schools
Client:	LFR Levine Fricke	Prep:	EPA 5030B
Project#:	003-09155-02	Analysis:	EPA 8260B
Field ID:	NW-2I	Diln Fac:	4.000
Lab ID:	215916-001	Sampled:	10/22/09
Matrix:	Water	Received:	10/22/09
Units:	ug/L		

Analyte	Result	RL	Batch#	Analyzed
Gasoline C7-C12	4,200	200	156462	10/26/09
tert-Butyl Alcohol (TBA)	3,300	40	156508	10/27/09
Isopropyl Ether (DIPE)	ND	2.0	156508	10/27/09
Ethyl tert-Butyl Ether (ETBE)	ND	2.0	156508	10/27/09
Methyl tert-Amyl Ether (TAME)	ND	2.0	156508	10/27/09
MTBE	330	2.0	156508	10/27/09
1,2-Dichloroethane	ND	2.0	156508	10/27/09
Benzene	110	2.0	156508	10/27/09
Toluene	110	2.0	156508	10/27/09
1,2-Dibromoethane	ND	2.0	156508	10/27/09
Ethylbenzene	5.8	2.0	156508	10/27/09
m,p-Xylenes	400	2.0	156508	10/27/09
o-Xylene	250	2.0	156508	10/27/09

Surrogate	%REC	Limits	Batch#	Analyzed
Dibromofluoromethane	108	81-124	156508	10/27/09
1,2-Dichloroethane-d4	109	73-140	156508	10/27/09
Toluene-d8	100	88-113	156508	10/27/09
Bromofluorobenzene	98	80-127	156508	10/27/09

ND= Not Detected
 RL= Reporting Limit

Gasoline by GC/MS			
Lab #:	215916	Location:	Aspire Schools
Client:	LFR Levine Fricke	Prep:	EPA 5030B
Project#:	003-09155-02	Analysis:	EPA 8260B
Field ID:	ASMW-2I	Diln Fac:	3.333
Lab ID:	215916-002	Sampled:	10/21/09
Matrix:	Water	Received:	10/22/09
Units:	ug/L		

Analyte	Result	RL	Batch#	Analyzed
Gasoline C7-C12	ND	170	156462	10/26/09
tert-Butyl Alcohol (TBA)	370	33	156508	10/27/09
Isopropyl Ether (DIPE)	ND	1.7	156508	10/27/09
Ethyl tert-Butyl Ether (ETBE)	ND	1.7	156508	10/27/09
Methyl tert-Amyl Ether (TAME)	ND	1.7	156508	10/27/09
MTBE	290	1.7	156508	10/27/09
1,2-Dichloroethane	ND	1.7	156508	10/27/09
Benzene	ND	1.7	156508	10/27/09
Toluene	4.6	1.7	156508	10/27/09
1,2-Dibromoethane	ND	1.7	156508	10/27/09
Ethylbenzene	ND	1.7	156508	10/27/09
m,p-Xylenes	9.0	1.7	156508	10/27/09
o-Xylene	11	1.7	156508	10/27/09

Surrogate	%REC	Limits	Batch#	Analyzed
Dibromofluoromethane	108	81-124	156508	10/27/09
1,2-Dichloroethane-d4	112	73-140	156508	10/27/09
Toluene-d8	99	88-113	156508	10/27/09
Bromofluorobenzene	101	80-127	156508	10/27/09

ND= Not Detected
 RL= Reporting Limit

Gasoline by GC/MS			
Lab #:	215916	Location:	Aspire Schools
Client:	LFR Levine Fricke	Prep:	EPA 5030B
Project#:	003-09155-02	Analysis:	EPA 8260B
Field ID:	ASMW-3I	Batch#:	156399
Lab ID:	215916-003	Sampled:	10/21/09
Matrix:	Water	Received:	10/22/09
Units:	ug/L	Analyzed:	10/23/09
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50
tert-Butyl Alcohol (TBA)	ND	10
Isopropyl Ether (DIPE)	ND	0.50
Ethyl tert-Butyl Ether (ETBE)	ND	0.50
Methyl tert-Amyl Ether (TAME)	ND	0.50
MTBE	6.9	0.50
1,2-Dichloroethane	ND	0.50
Benzene	ND	0.50
Toluene	1.4	0.50
1,2-Dibromoethane	ND	0.50
Ethylbenzene	ND	0.50
m,p-Xylenes	ND	0.50
o-Xylene	ND	0.50

Surrogate	%REC	Limits
Dibromofluoromethane	102	81-124
1,2-Dichloroethane-d4	111	73-140
Toluene-d8	111	88-113
Bromofluorobenzene	103	80-127

ND= Not Detected
 RL= Reporting Limit

Gasoline by GC/MS			
Lab #:	215916	Location:	Aspire Schools
Client:	LFR Levine Fricke	Prep:	EPA 5030B
Project#:	003-09155-02	Analysis:	EPA 8260B
Field ID:	ASMW-4I	Units:	ug/L
Lab ID:	215916-004	Sampled:	10/22/09
Matrix:	Water	Received:	10/22/09

Analyte	Result	RL	Diln Fac	Batch#	Analyzed
Gasoline C7-C12	1,900	100	2.000	156399	10/23/09
tert-Butyl Alcohol (TBA)	ND	10	1.000	156461	10/26/09
Isopropyl Ether (DIPE)	ND	0.50	1.000	156461	10/26/09
Ethyl tert-Butyl Ether (ETBE)	ND	0.50	1.000	156461	10/26/09
Methyl tert-Amyl Ether (TAME)	ND	0.50	1.000	156461	10/26/09
MTBE	ND	0.50	1.000	156461	10/26/09
1,2-Dichloroethane	ND	0.50	1.000	156461	10/26/09
Benzene	4.0	0.50	1.000	156461	10/26/09
Toluene	1.4	0.50	1.000	156461	10/26/09
1,2-Dibromoethane	ND	0.50	1.000	156461	10/26/09
Ethylbenzene	75	0.50	1.000	156461	10/26/09
m,p-Xylenes	110	0.50	1.000	156461	10/26/09
o-Xylene	23	0.50	1.000	156461	10/26/09

Surrogate	%REC	Limits	Diln Fac	Batch#	Analyzed
Dibromofluoromethane	107	81-124	1.000	156461	10/26/09
1,2-Dichloroethane-d4	118	73-140	1.000	156461	10/26/09
Toluene-d8	100	88-113	1.000	156461	10/26/09
Bromofluorobenzene	97	80-127	1.000	156461	10/26/09

ND= Not Detected
 RL= Reporting Limit

Gasoline by GC/MS			
Lab #:	215916	Location:	Aspire Schools
Client:	LFR Levine Fricke	Prep:	EPA 5030B
Project#:	003-09155-02	Analysis:	EPA 8260B
Field ID:	ASMW-5I	Diln Fac:	25.00
Lab ID:	215916-005	Sampled:	10/22/09
Matrix:	Water	Received:	10/22/09
Units:	ug/L		

Analyte	Result	RL	Batch#	Analyzed
Gasoline C7-C12	22,000	1,300	156462	10/26/09
tert-Butyl Alcohol (TBA)	330	250	156508	10/27/09
Isopropyl Ether (DIPE)	ND	13	156508	10/27/09
Ethyl tert-Butyl Ether (ETBE)	ND	13	156508	10/27/09
Methyl tert-Amyl Ether (TAME)	ND	13	156508	10/27/09
MTBE	110	13	156508	10/27/09
1,2-Dichloroethane	ND	13	156508	10/27/09
Benzene	560	13	156508	10/27/09
Toluene	330	13	156508	10/27/09
1,2-Dibromoethane	ND	13	156508	10/27/09
Ethylbenzene	240	13	156508	10/27/09
m,p-Xylenes	3,000	13	156508	10/27/09
o-Xylene	1,600	13	156508	10/27/09

Surrogate	%REC	Limits	Batch#	Analyzed
Dibromofluoromethane	109	81-124	156508	10/27/09
1,2-Dichloroethane-d4	108	73-140	156508	10/27/09
Toluene-d8	100	88-113	156508	10/27/09
Bromofluorobenzene	100	80-127	156508	10/27/09

ND= Not Detected
 RL= Reporting Limit

Gasoline by GC/MS			
Lab #:	215916	Location:	Aspire Schools
Client:	LFR Levine Fricke	Prep:	EPA 5030B
Project#:	003-09155-02	Analysis:	EPA 8260B
Field ID:	MW-4	Diln Fac:	1.000
Lab ID:	215916-006	Sampled:	10/21/09
Matrix:	Water	Received:	10/22/09
Units:	ug/L		

Analyte	Result	RL	Batch#	Analyzed
Gasoline C7-C12	ND	50	156462	10/26/09
tert-Butyl Alcohol (TBA)	ND	10	156508	10/27/09
Isopropyl Ether (DIPE)	ND	0.50	156508	10/27/09
Ethyl tert-Butyl Ether (ETBE)	ND	0.50	156508	10/27/09
Methyl tert-Amyl Ether (TAME)	ND	0.50	156508	10/27/09
MTBE	3.7	0.50	156508	10/27/09
1,2-Dichloroethane	ND	0.50	156508	10/27/09
Benzene	ND	0.50	156508	10/27/09
Toluene	1.3	0.50	156508	10/27/09
1,2-Dibromoethane	ND	0.50	156508	10/27/09
Ethylbenzene	ND	0.50	156508	10/27/09
m,p-Xylenes	ND	0.50	156508	10/27/09
o-Xylene	ND	0.50	156508	10/27/09

Surrogate	%REC	Limits	Batch#	Analyzed
Dibromofluoromethane	110	81-124	156508	10/27/09
1,2-Dichloroethane-d4	107	73-140	156508	10/27/09
Toluene-d8	99	88-113	156508	10/27/09
Bromofluorobenzene	99	80-127	156508	10/27/09

ND= Not Detected
 RL= Reporting Limit

Gasoline by GC/MS			
Lab #:	215916	Location:	Aspire Schools
Client:	LFR Levine Fricke	Prep:	EPA 5030B
Project#:	003-09155-02	Analysis:	EPA 8260B
Field ID:	NW-2D	Diln Fac:	1.000
Lab ID:	215916-007	Sampled:	10/21/09
Matrix:	Water	Received:	10/22/09
Units:	ug/L		

Analyte	Result	RL	Batch#	Analyzed
Gasoline C7-C12	ND	50	156399	10/23/09
tert-Butyl Alcohol (TBA)	ND	10	156461	10/26/09
Isopropyl Ether (DIPE)	ND	0.50	156461	10/26/09
Ethyl tert-Butyl Ether (ETBE)	ND	0.50	156461	10/26/09
Methyl tert-Amyl Ether (TAME)	ND	0.50	156461	10/26/09
MTBE	ND	0.50	156461	10/26/09
1,2-Dichloroethane	ND	0.50	156461	10/26/09
Benzene	ND	0.50	156461	10/26/09
Toluene	0.78	0.50	156461	10/26/09
1,2-Dibromoethane	ND	0.50	156461	10/26/09
Ethylbenzene	ND	0.50	156461	10/26/09
m,p-Xylenes	ND	0.50	156461	10/26/09
o-Xylene	ND	0.50	156461	10/26/09

Surrogate	%REC	Limits	Batch#	Analyzed
Dibromofluoromethane	109	81-124	156461	10/26/09
1,2-Dichloroethane-d4	113	73-140	156461	10/26/09
Toluene-d8	95	88-113	156461	10/26/09
Bromofluorobenzene	103	80-127	156461	10/26/09

ND= Not Detected
 RL= Reporting Limit

Gasoline by GC/MS			
Lab #:	215916	Location:	Aspire Schools
Client:	LFR Levine Fricke	Prep:	EPA 5030B
Project#:	003-09155-02	Analysis:	EPA 8260B
Field ID:	ASMW-2D	Diln Fac:	1.000
Lab ID:	215916-008	Sampled:	10/22/09
Matrix:	Water	Received:	10/22/09
Units:	ug/L		

Analyte	Result	RL	Batch#	Analyzed
Gasoline C7-C12	ND	50	156462	10/26/09
tert-Butyl Alcohol (TBA)	ND	10	156508	10/27/09
Isopropyl Ether (DIPE)	ND	0.50	156508	10/27/09
Ethyl tert-Butyl Ether (ETBE)	ND	0.50	156508	10/27/09
Methyl tert-Amyl Ether (TAME)	ND	0.50	156508	10/27/09
MTBE	1.9	0.50	156508	10/27/09
1,2-Dichloroethane	ND	0.50	156508	10/27/09
Benzene	ND	0.50	156508	10/27/09
Toluene	1.4	0.50	156508	10/27/09
1,2-Dibromoethane	ND	0.50	156508	10/27/09
Ethylbenzene	ND	0.50	156508	10/27/09
m,p-Xylenes	1.9	0.50	156508	10/27/09
o-Xylene	2.1	0.50	156508	10/27/09

Surrogate	%REC	Limits	Batch#	Analyzed
Dibromofluoromethane	109	81-124	156508	10/27/09
1,2-Dichloroethane-d4	111	73-140	156508	10/27/09
Toluene-d8	100	88-113	156508	10/27/09
Bromofluorobenzene	100	80-127	156508	10/27/09

ND= Not Detected
 RL= Reporting Limit

Gasoline by GC/MS			
Lab #:	215916	Location:	Aspire Schools
Client:	LFR Levine Fricke	Prep:	EPA 5030B
Project#:	003-09155-02	Analysis:	EPA 8260B
Field ID:	ASMW-3D	Batch#:	156462
Lab ID:	215916-009	Sampled:	10/21/09
Matrix:	Water	Received:	10/22/09
Units:	ug/L	Analyzed:	10/26/09
Diln Fac:	5.000		

Analyte	Result	RL
Gasoline C7-C12	ND	250
tert-Butyl Alcohol (TBA)	ND	50
Isopropyl Ether (DIPE)	ND	2.5
Ethyl tert-Butyl Ether (ETBE)	ND	2.5
Methyl tert-Amyl Ether (TAME)	ND	2.5
MTBE	310	2.5
1,2-Dichloroethane	ND	2.5
Benzene	ND	2.5
Toluene	ND	2.5
1,2-Dibromoethane	ND	2.5
Ethylbenzene	ND	2.5
m,p-Xylenes	ND	2.5
o-Xylene	ND	2.5

Surrogate	%REC	Limits
Dibromofluoromethane	100	81-124
1,2-Dichloroethane-d4	113	73-140
Toluene-d8	120 *	88-113
Bromofluorobenzene	102	80-127

*= Value outside of QC limits; see narrative

ND= Not Detected

RL= Reporting Limit

Gasoline by GC/MS			
Lab #:	215916	Location:	Aspire Schools
Client:	LFR Levine Fricke	Prep:	EPA 5030B
Project#:	003-09155-02	Analysis:	EPA 8260B
Field ID:	ASMW-4D	Diln Fac:	1.000
Lab ID:	215916-010	Sampled:	10/22/09
Matrix:	Water	Received:	10/22/09
Units:	ug/L		

Analyte	Result	RL	Batch#	Analyzed
Gasoline C7-C12	ND	50	156399	10/23/09
tert-Butyl Alcohol (TBA)	ND	10	156461	10/26/09
Isopropyl Ether (DIPE)	ND	0.50	156461	10/26/09
Ethyl tert-Butyl Ether (ETBE)	ND	0.50	156461	10/26/09
Methyl tert-Amyl Ether (TAME)	ND	0.50	156461	10/26/09
MTBE	6.1	0.50	156461	10/26/09
1,2-Dichloroethane	ND	0.50	156461	10/26/09
Benzene	ND	0.50	156461	10/26/09
Toluene	0.54	0.50	156461	10/26/09
1,2-Dibromoethane	ND	0.50	156461	10/26/09
Ethylbenzene	ND	0.50	156461	10/26/09
m,p-Xylenes	ND	0.50	156461	10/26/09
o-Xylene	ND	0.50	156461	10/26/09

Surrogate	%REC	Limits	Batch#	Analyzed
Dibromofluoromethane	108	81-124	156461	10/26/09
1,2-Dichloroethane-d4	114	73-140	156461	10/26/09
Toluene-d8	98	88-113	156461	10/26/09
Bromofluorobenzene	105	80-127	156461	10/26/09

ND= Not Detected
 RL= Reporting Limit

Gasoline by GC/MS			
Lab #:	215916	Location:	Aspire Schools
Client:	LFR Levine Fricke	Prep:	EPA 5030B
Project#:	003-09155-02	Analysis:	EPA 8260B
Field ID:	ASMW-5D	Batch#:	156399
Lab ID:	215916-011	Sampled:	10/21/09
Matrix:	Water	Received:	10/22/09
Units:	ug/L	Analyzed:	10/23/09
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50
tert-Butyl Alcohol (TBA)	ND	10
Isopropyl Ether (DIPE)	ND	0.50
Ethyl tert-Butyl Ether (ETBE)	ND	0.50
Methyl tert-Amyl Ether (TAME)	ND	0.50
MTBE	76	0.50
1,2-Dichloroethane	ND	0.50
Benzene	ND	0.50
Toluene	0.74	0.50
1,2-Dibromoethane	ND	0.50
Ethylbenzene	ND	0.50
m,p-Xylenes	ND	0.50
o-Xylene	ND	0.50

Surrogate	%REC	Limits
Dibromofluoromethane	102	81-124
1,2-Dichloroethane-d4	114	73-140
Toluene-d8	111	88-113
Bromofluorobenzene	105	80-127

ND= Not Detected
 RL= Reporting Limit

Gasoline by GC/MS			
Lab #:	215916	Location:	Aspire Schools
Client:	LFR Levine Fricke	Prep:	EPA 5030B
Project#:	003-09155-02	Analysis:	EPA 8260B
Field ID:	DUP-1	Batch#:	156399
Lab ID:	215916-012	Sampled:	10/21/09
Matrix:	Water	Received:	10/22/09
Units:	ug/L	Analyzed:	10/23/09
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50
tert-Butyl Alcohol (TBA)	ND	10
Isopropyl Ether (DIPE)	ND	0.50
Ethyl tert-Butyl Ether (ETBE)	ND	0.50
Methyl tert-Amyl Ether (TAME)	ND	0.50
MTBE	5.1	0.50
1,2-Dichloroethane	ND	0.50
Benzene	ND	0.50
Toluene	0.79	0.50
1,2-Dibromoethane	ND	0.50
Ethylbenzene	ND	0.50
m,p-Xylenes	ND	0.50
o-Xylene	ND	0.50

Surrogate	%REC	Limits
Dibromofluoromethane	103	81-124
1,2-Dichloroethane-d4	112	73-140
Toluene-d8	112	88-113
Bromofluorobenzene	106	80-127

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Gasoline by GC/MS			
Lab #:	215916	Location:	Aspire Schools
Client:	LFR Levine Fricke	Prep:	EPA 5030B
Project#:	003-09155-02	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC518001	Batch#:	156399
Matrix:	Water	Analyzed:	10/23/09
Units:	ug/L		

Analyte	Result	RL
Gasoline C7-C12	ND	50
tert-Butyl Alcohol (TBA)	ND	10
Isopropyl Ether (DIPE)	ND	0.50
Ethyl tert-Butyl Ether (ETBE)	ND	0.50
Methyl tert-Amyl Ether (TAME)	ND	0.50
MTBE	ND	0.50
1,2-Dichloroethane	ND	0.50
Benzene	ND	0.50
Toluene	ND	0.50
1,2-Dibromoethane	ND	0.50
Ethylbenzene	ND	0.50
m,p-Xylenes	ND	0.50
o-Xylene	ND	0.50

Surrogate	%REC	Limits
Dibromofluoromethane	102	81-124
1,2-Dichloroethane-d4	114	73-140
Toluene-d8	113	88-113
Bromofluorobenzene	105	80-127

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Gasoline by GC/MS			
Lab #:	215916	Location:	Aspire Schools
Client:	LFR Levine Fricke	Prep:	EPA 5030B
Project#:	003-09155-02	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	156399
Units:	ug/L	Analyzed:	10/23/09
Diln Fac:	1.000		

Type: BS Lab ID: QC518002

Analyte	Spiked	Result	%REC	Limits
tert-Butyl Alcohol (TBA)	125.0	106.9	86	36-156
Isopropyl Ether (DIPE)	25.00	23.87	95	54-139
Ethyl tert-Butyl Ether (ETBE)	25.00	25.14	101	64-133
Methyl tert-Amyl Ether (TAME)	25.00	25.70	103	73-124
MTBE	25.00	22.22	89	61-123
1,2-Dichloroethane	25.00	26.86	107	66-141
Benzene	25.00	25.42	102	81-122
Toluene	25.00	27.86	111	82-122
1,2-Dibromoethane	25.00	26.33	105	81-122
Ethylbenzene	25.00	28.84	115	86-125
m,p-Xylenes	50.00	57.60	115	83-127
o-Xylene	25.00	27.78	111	81-122

Surrogate	%REC	Limits
Dibromofluoromethane	103	81-124
1,2-Dichloroethane-d4	112	73-140
Toluene-d8	110	88-113
Bromofluorobenzene	101	80-127

Type: BSD Lab ID: QC518003

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
tert-Butyl Alcohol (TBA)	125.0	103.5	83	36-156	3	23
Isopropyl Ether (DIPE)	25.00	23.30	93	54-139	2	11
Ethyl tert-Butyl Ether (ETBE)	25.00	23.62	94	64-133	6	11
Methyl tert-Amyl Ether (TAME)	25.00	23.79	95	73-124	8	11
MTBE	25.00	21.03	84	61-123	6	11
1,2-Dichloroethane	25.00	25.77	103	66-141	4	12
Benzene	25.00	24.85	99	81-122	2	12
Toluene	25.00	27.90	112	82-122	0	12
1,2-Dibromoethane	25.00	25.79	103	81-122	2	11
Ethylbenzene	25.00	28.79	115	86-125	0	12
m,p-Xylenes	50.00	58.35	117	83-127	1	13
o-Xylene	25.00	28.04	112	81-122	1	12

Surrogate	%REC	Limits
Dibromofluoromethane	103	81-124
1,2-Dichloroethane-d4	110	73-140
Toluene-d8	113	88-113
Bromofluorobenzene	103	80-127

RPD= Relative Percent Difference

Batch QC Report

Gasoline by GC/MS			
Lab #:	215916	Location:	Aspire Schools
Client:	LFR Levine Fricke	Prep:	EPA 5030B
Project#:	003-09155-02	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	156399
Units:	ug/L	Analyzed:	10/23/09
Diln Fac:	1.000		

Type: BS Lab ID: QC518050

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	750.0	793.8	106	74-124

Surrogate	%REC	Limits
Dibromofluoromethane	102	81-124
1,2-Dichloroethane-d4	111	73-140
Toluene-d8	112	88-113
Bromofluorobenzene	102	80-127

Type: BSD Lab ID: QC518051

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	750.0	796.6	106	74-124	0	13

Surrogate	%REC	Limits
Dibromofluoromethane	102	81-124
1,2-Dichloroethane-d4	112	73-140
Toluene-d8	112	88-113
Bromofluorobenzene	104	80-127

RPD= Relative Percent Difference

Batch QC Report

Gasoline by GC/MS			
Lab #:	215916	Location:	Aspire Schools
Client:	LFR Levine Fricke	Prep:	EPA 5030B
Project#:	003-09155-02	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC518225	Batch#:	156461
Matrix:	Water	Analyzed:	10/26/09
Units:	ug/L		

Analyte	Result	RL
Gasoline C7-C12	NA	
tert-Butyl Alcohol (TBA)	ND	10
Isopropyl Ether (DIPE)	ND	0.50
Ethyl tert-Butyl Ether (ETBE)	ND	0.50
Methyl tert-Amyl Ether (TAME)	ND	0.50
MTBE	ND	0.50
1,2-Dichloroethane	ND	0.50
Benzene	ND	0.50
Toluene	ND	0.50
1,2-Dibromoethane	ND	0.50
Ethylbenzene	ND	0.50
m,p-Xylenes	ND	0.50
o-Xylene	ND	0.50

Surrogate	%REC	Limits
Dibromofluoromethane	107	81-124
1,2-Dichloroethane-d4	118	73-140
Toluene-d8	102	88-113
Bromofluorobenzene	107	80-127

NA= Not Analyzed
 ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Gasoline by GC/MS			
Lab #:	215916	Location:	Aspire Schools
Client:	LFR Levine Fricke	Prep:	EPA 5030B
Project#:	003-09155-02	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	156461
Units:	ug/L	Analyzed:	10/26/09
Diln Fac:	1.000		

Type: BS Lab ID: QC518226

Analyte	Spiked	Result	%REC	Limits
tert-Butyl Alcohol (TBA)	125.0	118.7	95	36-156
Isopropyl Ether (DIPE)	25.00	25.46	102	54-139
Ethyl tert-Butyl Ether (ETBE)	25.00	24.60	98	64-133
Methyl tert-Amyl Ether (TAME)	25.00	24.04	96	73-124
MTBE	25.00	24.23	97	61-123
1,2-Dichloroethane	25.00	30.48	122	66-141
Benzene	25.00	27.03	108	81-122
Toluene	25.00	28.15	113	82-122
1,2-Dibromoethane	25.00	27.96	112	81-122
Ethylbenzene	25.00	27.94	112	86-125
m,p-Xylenes	50.00	57.11	114	83-127
o-Xylene	25.00	27.95	112	81-122

Surrogate	%REC	Limits
Dibromofluoromethane	105	81-124
1,2-Dichloroethane-d4	109	73-140
Toluene-d8	99	88-113
Bromofluorobenzene	96	80-127

Type: BSD Lab ID: QC518227

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
tert-Butyl Alcohol (TBA)	125.0	121.1	97	36-156	2	23
Isopropyl Ether (DIPE)	25.00	24.25	97	54-139	5	11
Ethyl tert-Butyl Ether (ETBE)	25.00	24.01	96	64-133	2	11
Methyl tert-Amyl Ether (TAME)	25.00	25.62	102	73-124	6	11
MTBE	25.00	23.81	95	61-123	2	11
1,2-Dichloroethane	25.00	30.98	124	66-141	2	12
Benzene	25.00	27.42	110	81-122	1	12
Toluene	25.00	26.57	106	82-122	6	12
1,2-Dibromoethane	25.00	28.34	113	81-122	1	11
Ethylbenzene	25.00	27.24	109	86-125	3	12
m,p-Xylenes	50.00	57.52	115	83-127	1	13
o-Xylene	25.00	27.26	109	81-122	2	12

Surrogate	%REC	Limits
Dibromofluoromethane	105	81-124
1,2-Dichloroethane-d4	115	73-140
Toluene-d8	98	88-113
Bromofluorobenzene	94	80-127

RPD= Relative Percent Difference

Batch QC Report

Gasoline by GC/MS			
Lab #:	215916	Location:	Aspire Schools
Client:	LFR Levine Fricke	Prep:	EPA 5030B
Project#:	003-09155-02	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC518228	Batch#:	156462
Matrix:	Water	Analyzed:	10/26/09
Units:	ug/L		

Analyte	Result	RL
Gasoline C7-C12	NA	
tert-Butyl Alcohol (TBA)	ND	10
Isopropyl Ether (DIPE)	ND	0.50
Ethyl tert-Butyl Ether (ETBE)	ND	0.50
Methyl tert-Amyl Ether (TAME)	ND	0.50
MTBE	ND	0.50
1,2-Dichloroethane	ND	0.50
Benzene	ND	0.50
Toluene	ND	0.50
1,2-Dibromoethane	ND	0.50
Ethylbenzene	ND	0.50
m,p-Xylenes	ND	0.50
o-Xylene	ND	0.50

Surrogate	%REC	Limits
Dibromofluoromethane	101	81-124
1,2-Dichloroethane-d4	112	73-140
Toluene-d8	117 *	88-113
Bromofluorobenzene	106	80-127

*= Value outside of QC limits; see narrative

NA= Not Analyzed

ND= Not Detected

RL= Reporting Limit

Batch QC Report

Gasoline by GC/MS			
Lab #:	215916	Location:	Aspire Schools
Client:	LFR Levine Fricke	Prep:	EPA 5030B
Project#:	003-09155-02	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	156462
Units:	ug/L	Analyzed:	10/26/09
Diln Fac:	1.000		

Type: BS Lab ID: QC518229

Analyte	Spiked	Result	%REC	Limits
tert-Butyl Alcohol (TBA)	125.0	115.3	92	36-156
Isopropyl Ether (DIPE)	25.00	23.18	93	54-139
Ethyl tert-Butyl Ether (ETBE)	25.00	23.75	95	64-133
Methyl tert-Amyl Ether (TAME)	25.00	24.61	98	73-124
MTBE	25.00	21.45	86	61-123
1,2-Dichloroethane	25.00	25.93	104	66-141
Benzene	25.00	24.78	99	81-122
Toluene	25.00	27.62	110	82-122
1,2-Dibromoethane	25.00	25.56	102	81-122
Ethylbenzene	25.00	28.68	115	86-125
m,p-Xylenes	50.00	56.90	114	83-127
o-Xylene	25.00	26.96	108	81-122

Surrogate	%REC	Limits
Dibromofluoromethane	101	81-124
1,2-Dichloroethane-d4	107	73-140
Toluene-d8	110	88-113
Bromofluorobenzene	100	80-127

Type: BSD Lab ID: QC518230

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
tert-Butyl Alcohol (TBA)	125.0	112.4	90	36-156	3	23
Isopropyl Ether (DIPE)	25.00	22.07	88	54-139	5	11
Ethyl tert-Butyl Ether (ETBE)	25.00	23.06	92	64-133	3	11
Methyl tert-Amyl Ether (TAME)	25.00	23.85	95	73-124	3	11
MTBE	25.00	21.13	85	61-123	2	11
1,2-Dichloroethane	25.00	24.68	99	66-141	5	12
Benzene	25.00	23.64	95	81-122	5	12
Toluene	25.00	26.70	107	82-122	3	12
1,2-Dibromoethane	25.00	26.06	104	81-122	2	11
Ethylbenzene	25.00	28.07	112	86-125	2	12
m,p-Xylenes	50.00	57.09	114	83-127	0	13
o-Xylene	25.00	27.23	109	81-122	1	12

Surrogate	%REC	Limits
Dibromofluoromethane	102	81-124
1,2-Dichloroethane-d4	107	73-140
Toluene-d8	112	88-113
Bromofluorobenzene	101	80-127

RPD= Relative Percent Difference

Batch QC Report

Gasoline by GC/MS			
Lab #:	215916	Location:	Aspire Schools
Client:	LFR Levine Fricke	Prep:	EPA 5030B
Project#:	003-09155-02	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	156462
Units:	ug/L	Analyzed:	10/26/09
Diln Fac:	1.000		

Type: BS Lab ID: QC518248

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1,000	1,099	110	74-124

Surrogate	%REC	Limits
Dibromofluoromethane	100	81-124
1,2-Dichloroethane-d4	108	73-140
Toluene-d8	114 *	88-113
Bromofluorobenzene	101	80-127

Type: BSD Lab ID: QC518249

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	1,000	1,043	104	74-124	5	13

Surrogate	%REC	Limits
Dibromofluoromethane	99	81-124
1,2-Dichloroethane-d4	109	73-140
Toluene-d8	116 *	88-113
Bromofluorobenzene	103	80-127

*= Value outside of QC limits; see narrative

RPD= Relative Percent Difference

Batch QC Report

Gasoline by GC/MS			
Lab #:	215916	Location:	Aspire Schools
Client:	LFR Levine Fricke	Prep:	EPA 5030B
Project#:	003-09155-02	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC518440	Batch#:	156508
Matrix:	Water	Analyzed:	10/27/09
Units:	ug/L		

Analyte	Result	RL
Gasoline C7-C12	NA	
tert-Butyl Alcohol (TBA)	ND	10
Isopropyl Ether (DIPE)	ND	0.50
Ethyl tert-Butyl Ether (ETBE)	ND	0.50
Methyl tert-Amyl Ether (TAME)	ND	0.50
MTBE	ND	0.50
1,2-Dichloroethane	ND	0.50
Benzene	ND	0.50
Toluene	ND	0.50
1,2-Dibromoethane	ND	0.50
Ethylbenzene	ND	0.50
m,p-Xylenes	ND	0.50
o-Xylene	ND	0.50

Surrogate	%REC	Limits
Dibromofluoromethane	106	81-124
1,2-Dichloroethane-d4	109	73-140
Toluene-d8	98	88-113
Bromofluorobenzene	98	80-127

NA= Not Analyzed
 ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Gasoline by GC/MS			
Lab #:	215916	Location:	Aspire Schools
Client:	LFR Levine Fricke	Prep:	EPA 5030B
Project#:	003-09155-02	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	156508
Units:	ug/L	Analyzed:	10/27/09
Diln Fac:	1.000		

Type: BS Lab ID: QC518441

Analyte	Spiked	Result	%REC	Limits
tert-Butyl Alcohol (TBA)	125.0	133.6	107	36-156
Isopropyl Ether (DIPE)	25.00	25.89	104	54-139
Ethyl tert-Butyl Ether (ETBE)	25.00	25.09	100	64-133
Methyl tert-Amyl Ether (TAME)	25.00	24.30	97	73-124
MTBE	25.00	25.09	100	61-123
1,2-Dichloroethane	25.00	26.36	105	66-141
Benzene	25.00	26.19	105	81-122
Toluene	25.00	24.55	98	82-122
1,2-Dibromoethane	25.00	25.06	100	81-122
Ethylbenzene	25.00	26.48	106	86-125
m,p-Xylenes	50.00	52.25	104	83-127
o-Xylene	25.00	26.03	104	81-122

Surrogate	%REC	Limits
Dibromofluoromethane	108	81-124
1,2-Dichloroethane-d4	105	73-140
Toluene-d8	101	88-113
Bromofluorobenzene	99	80-127

Type: BSD Lab ID: QC518442

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
tert-Butyl Alcohol (TBA)	125.0	126.7	101	36-156	5	23
Isopropyl Ether (DIPE)	25.00	26.40	106	54-139	2	11
Ethyl tert-Butyl Ether (ETBE)	25.00	25.71	103	64-133	2	11
Methyl tert-Amyl Ether (TAME)	25.00	24.47	98	73-124	1	11
MTBE	25.00	25.40	102	61-123	1	11
1,2-Dichloroethane	25.00	25.99	104	66-141	1	12
Benzene	25.00	26.67	107	81-122	2	12
Toluene	25.00	25.34	101	82-122	3	12
1,2-Dibromoethane	25.00	25.86	103	81-122	3	11
Ethylbenzene	25.00	27.33	109	86-125	3	12
m,p-Xylenes	50.00	54.22	108	83-127	4	13
o-Xylene	25.00	26.58	106	81-122	2	12

Surrogate	%REC	Limits
Dibromofluoromethane	109	81-124
1,2-Dichloroethane-d4	102	73-140
Toluene-d8	100	88-113
Bromofluorobenzene	97	80-127

RPD= Relative Percent Difference

Date : 26-OCT-2009 17:58

Client ID: DYNA P&T

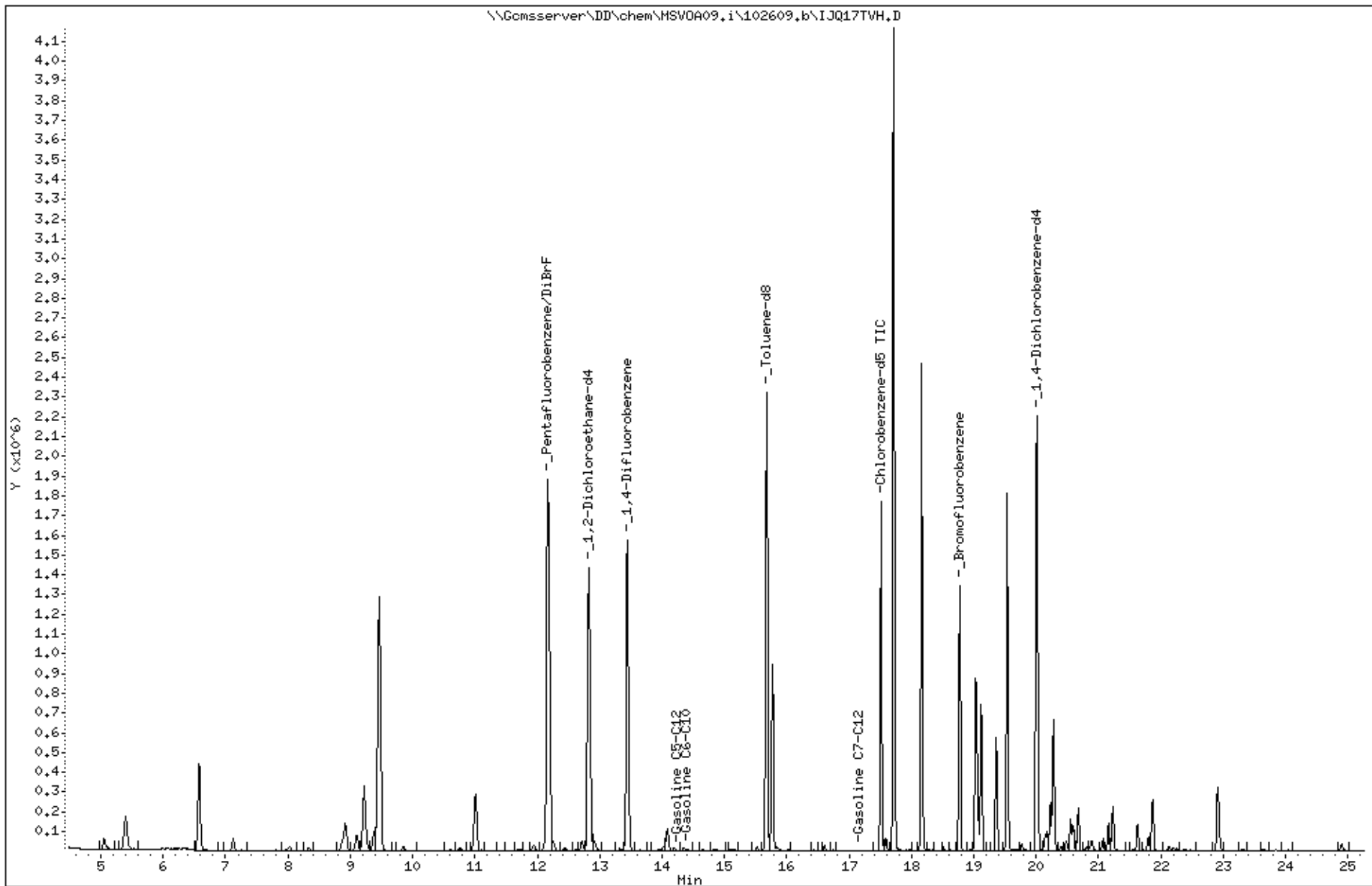
Sample Info: S,215916-001

Instrument: MSV0A09.i

Operator: VOC

Column diameter: 2.00

Column phase:



Date : 23-OCT-2009 20:31

Client ID: DYNA P&T

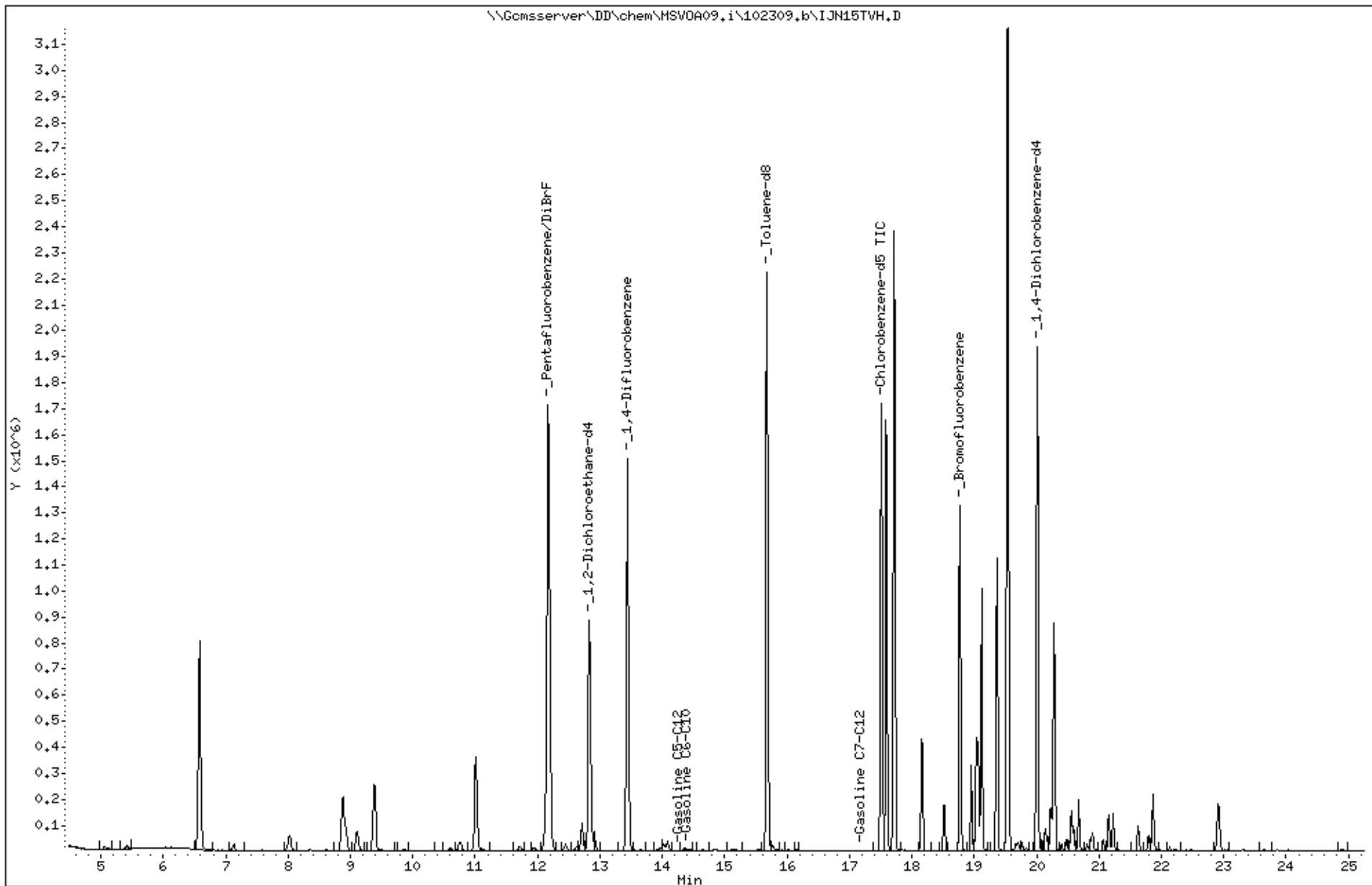
Sample Info: S,215916-004

Instrument: MSV0A09.i

Operator: VOC

Column diameter: 2.00

Column phase:



Date : 26-OCT-2009 19:39

Client ID: DYNA P&T

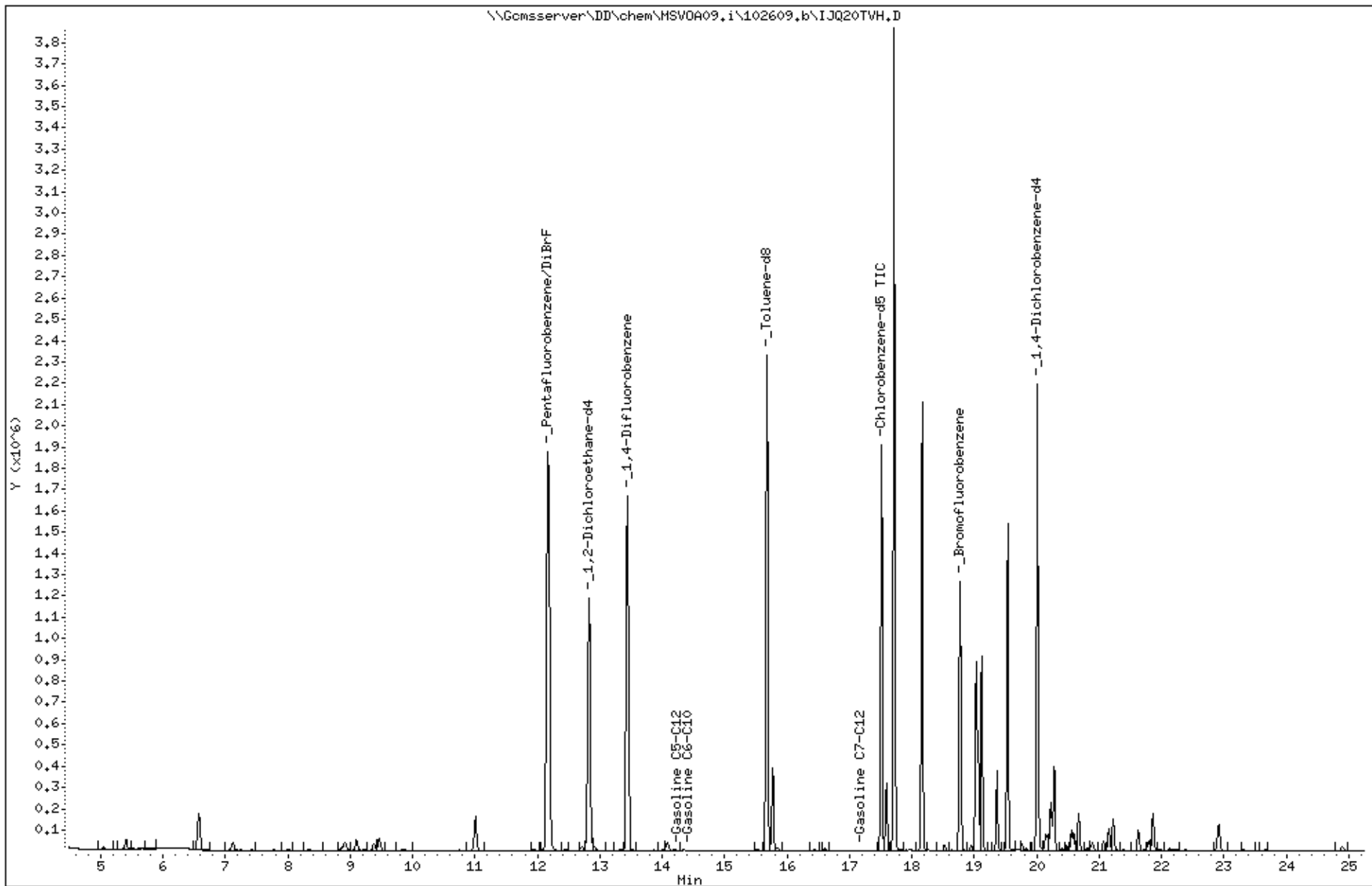
Sample Info: S,215916-005

Instrument: MSV0A09.i

Operator: VOC

Column diameter: 2.00

Column phase:



Date : 23-OCT-2009 10:55

Client ID: DYNA P&T

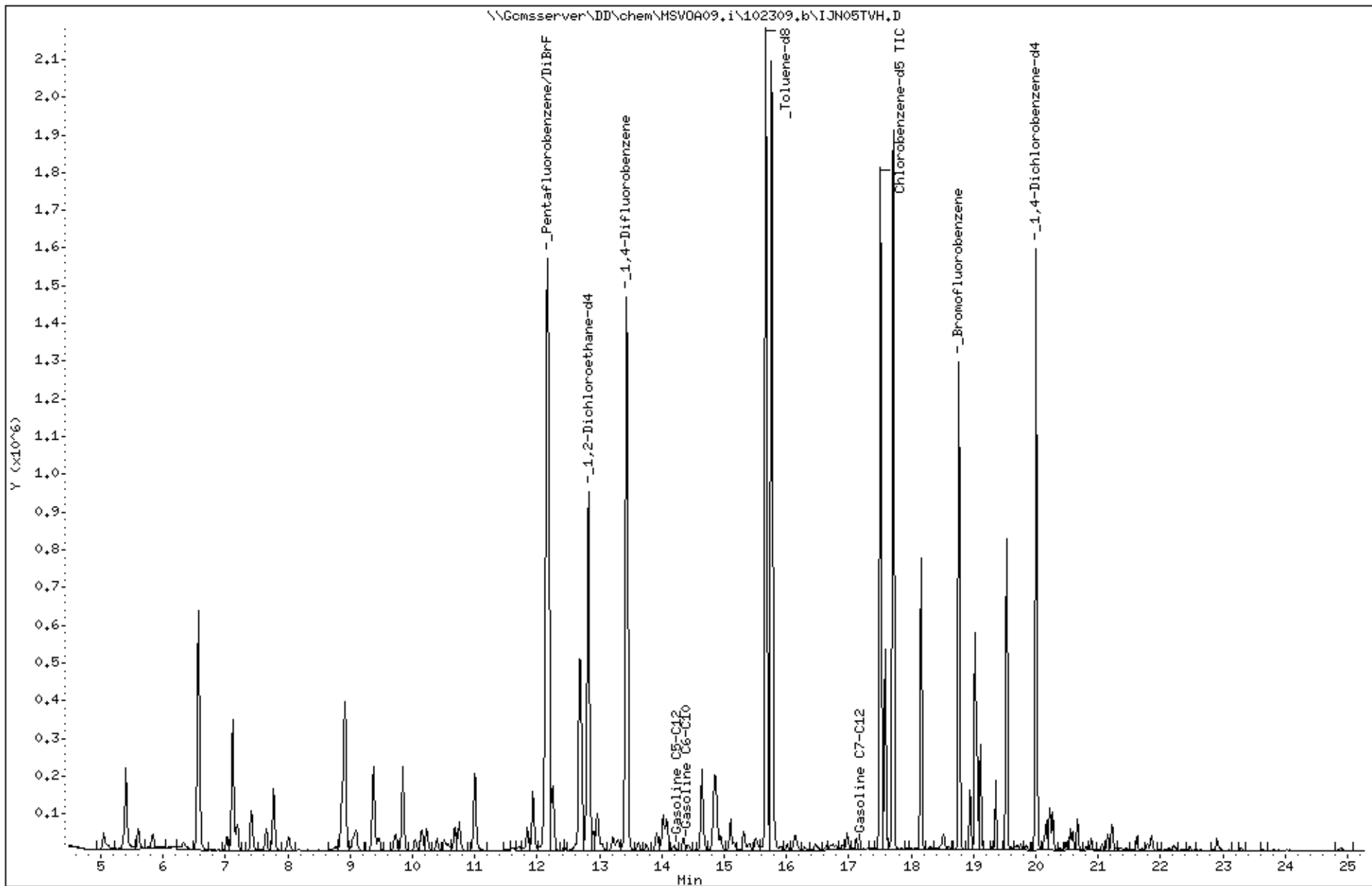
Sample Info: CCV/BS,QC517787,156347,1/1,S12208,13333X

Instrument: MSV0A09,i

Operator: VOC

Column diameter: 2,00

Column phase:



APPENDIX B

Field Logs



WATER-QUALITY SAMPLING LOG

Project No. 003-09155-02-002 Date: 10/21/09, 10/22/09 Page 1 of 1

Project Name: Aggie Schools Sampling Location: _____

Sampler's Name: K. Johnson Sample No.: _____ FB

Sampling Plan By: _____ Dated: _____ C.O.C. No.: _____ DUP

Purge Method: Centrifugal Pump Disposable Bailer Hand Bail Submersible Pump Teflon Bailer Other _____

Purge Water Storage Container Type: _____ Storage Location: outside tank

Date Purge Water Disposed: _____ Where Disposed: _____

Analyses Requested	No. and Type of Bottles Used

Lab Name: CTT

Delivery By Courier Hand

Well No. NW-2I Depth of Water 14.21 (measured last event)

Well Diameter: _____ Well Depth 12.07 on 10/21/09

- 2" (0.16 gal/feet) 5" (1.02 gal/feet) Water Column Height _____
 4" (0.65 gal/feet) 6" (1.47 gal/feet) Well Volume _____

80% DTW _____

Continue remarks on reverse, if needed.

Time	Inlet Depth	Depth to Water	Volume Purged (gal)	DO (mg/L)	Temperature (C°)	PH (SU)	Cond (uS/cm)	ORP (mv)	Turb (NTU)	Remarks
1350		8.54							very muddy	Start purge
1355		10.85	0.7	2.71	23.91	7.94	1291	216.2	"	
1400		11.19	1.2	3.19	23.41	7.69	1224	207.8	"	
1403		11.65	1.7	2.78	23.53	7.66	1273	202.5	"	
1407		12.05	2.0	3.45	23.54	7.65	1336	193.9	"	well dry
10/22/09 0917		4.04	-	-	-	-	-	-	clear	
0920										sample

Project No. 003-09155-02-002 Date: 10-21-09 Page 1 of 1

Project Name: Aspire Sampling Location: _____

Sampler's Name: K. Johnson Sample No.: _____ FB

Sampling Plan By: _____ Dated: _____ C.O.C. No.: _____ DUP

Purge Method: Centrifugal Pump Disposable Bailer Hand Bail Submersible Pump Teflon Bailer Other _____

Purge Water Storage Container Type: _____ Storage Location: onsite tank

Date Purge Water Disposed: _____ Where Disposed: _____

Analyses Requested	No. and Type of Bottles Used

Lab Name: C+T

Delivery By Courier Hand

Well No. ASMW-2I Depth of Water 8.05 → 7.80
 Well Diameter: _____ Well Depth 16.89 (from last event)
 2" (0.16 gal/feet) 5" (1.02 gal/feet) Water Column Height _____
 4" (0.65 gal/feet) 6" (1.47 gal/feet) Well Volume _____

after depressurizing

80% DTW _____

Continue remarks on reverse, if needed.

Time	Inlet Depth	Depth to Water	Volume Purged (gal)	DO (mg/L)	Temperature (C°)	PH (SU)	Cond (uS/cm)	ORP (mv)	Turb (NTU)	Remarks
1025		7.80							brown	start purge
1035		9.81	1.0	7.15	22.69	7.53	6138	232.7		
1038		10.03	1.1	7.03	22.66	7.45	6229	234.8		Reduce flow rate
1043		10.03	1.6	6.53	22.46	7.30	6565	238.0		
1046		10.04	1.8	6.22	22.42	7.23	6626	239.4		
1049		10.05	2.0	6.05	22.38	7.20	6645	239.6		
1052		10.05	2.3	5.85	22.36	7.16	6678	240.4		
1055		10.04	2.5	5.83	22.35	7.14	6742	240.6		
1100										Sample



WATER-QUALITY SAMPLING LOG

Project No. 003-09155-02-002 Date: 10/21/09 Page 1 of 1

Project Name: Aspire Schools Sampling Location: _____

Sampler's Name: E. Johnson Sample No.: _____ FB

Sampling Plan By: _____ Dated: _____ C.O.C. No.: _____ DUP Dup-1

Purge Method: Centrifugal Pump Disposable Bailer Hand Bail Submersible Pump Teflon Bailer Other _____

Purge Water Storage Container Type: _____ Storage Location: on site tank

Date Purge Water Disposed: _____ Where Disposed: _____

Analyses Requested	No. and Type of Bottles Used

Lab Name: CFT

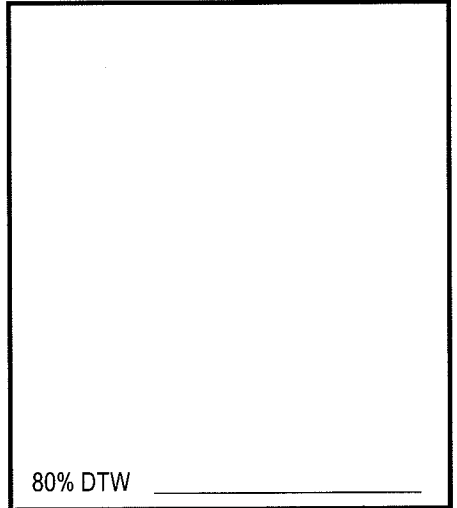
Delivery By Courier Hand

Well No. ASMW-3I Depth of Water 5.74

Well Diameter: _____ Well Depth _____

2" (0.16 gal/foot) 5" (1.02 gal/foot) Water Column Height _____

4" (0.65 gal/foot) 6" (1.47 gal/foot) Well Volume _____



80% DTW _____

Continue remarks on reverse, if needed.

Time	Inlet Depth	Depth to Water	Volume Purged (gal)	DO (mg/L)	Temperature (C°)	PH (SU)	Cond (uS/cm)	ORP (mv)	Turb (NTU)	Remarks
1149		5.74							Slightly cloudy	Start purge
1200		8.82	1.2	0.47	23.48	6.66	5292	83.0	clear	
1203		9.10	1.4	0.54	23.54	6.66	5229	89.1		Reduce flow rate
1206		8.94	1.6	0.61	23.63	6.66	5202	94.4		
1209		8.88	1.9	0.70	23.57	6.67	5216	97.5		
1212		8.88	2.2	0.78	23.53	6.66	5221	99.6		
1215		8.90	2.4	0.71	23.49	6.64	5232	101.8		
1220										Sample
1225										sample Dup-1
										(mark time
										08:00 on COC)

Project No. 003-09155-02-002 Date: 10.22.09 Page 1 of 1

Project Name: Aspice Schools Sampling Location: _____

Sampler's Name: K. Johnson Sample No.: _____ FB

Sampling Plan By: _____ Dated: _____ C.O.C. No.: _____ DUP

Purge Method: Centrifugal Pump Disposable Bailer Hand Bail Submersible Pump Teflon Bailer Other _____

Purge Water Storage Container Type: _____ Storage Location: onsite tank

Date Purge Water Disposed: _____ Where Disposed: _____

Analyses Requested	No. and Type of Bottles Used

Lab Name: LFT

Delivery By Courier Hand

80% DTW _____

Well No. ASMW-4I Depth of Water _____

Well Diameter: _____ Well Depth _____

2" (0.16 gal/feet) 5" (1.02 gal/feet) Water Column Height _____

4" (0.65 gal/feet) 6" (1.47 gal/feet) Well Volume _____

Continue remarks on reverse, if needed.

Time	Inlet Depth	Depth to Water	Volume Purged (gal)	DO (mg/L)	Temperature (C°)	PH (SU)	Cond (uS/cm)	ORP (mv)	Turb (NTU)	Remarks
1045		3.58							milky	start purge
1056		6.22	1.2	0.27	21.71	6.80	952	-80.6	clear	
1101		6.45	1.6	0.20	21.72	6.79	937	-79.7	"	reduce flow rate
1105		6.45	1.8	0.18	21.80	6.77	926	-70.6	"	
1108		6.45	2.0	0.17	21.73	6.76	918	-63.4	"	
1111		6.49	2.2	0.15	21.70	6.75	918	-61.1	"	
1114		6.51	2.5	0.14	21.74	6.74	910	-59.3	"	
1115										sample

Project No. 003-09155-02-002 Date: 10/21/09, 10/22/09 Page 1 of 1
 Project Name: Aspire Schools Sampling Location: _____
 Sampler's Name: K. Johnson Sample No.: _____ FB
 Sampling Plan By: _____ Dated: _____ C.O.C. No.: _____ DUP
 Purge Method: Centrifugal Pump Disposable Bailer Hand Bail Submersible Pump Teflon Bailer Other _____
 Purge Water Storage Container Type: _____ Storage Location: onsite tank
 Date Purge Water Disposed: _____ Where Disposed: _____

Analyses Requested	No. and Type of Bottles Used

Lab Name: CTT
 Delivery By Courier Hand

Well No. ASMW-5I Depth of Water _____
 Well Diameter: _____ Well Depth 12.34 (last event)
 2" (0.16 gal/feet) 5" (1.02 gal/feet) Water Column Height _____
 4" (0.65 gal/feet) 6" (1.47 gal/feet) Well Volume _____

80% DTW _____

Continue remarks on reverse, if needed.

Time	Inlet Depth	Depth to Water	Volume Purged (gal)	DO (mg/L)	Temperature (C°)	PH (SU)	Cond (uS/cm)	ORP (mv)	Turb (NTU)	Remarks
1455		6.86								start purge
1505		9.09	0.8	0.70	23.75	6.83	913	-23.7	clear	
1509		9.43	1.2	0.40	23.72	6.82	925	-15.4	"	increase flow rate
1514		10.21	1.8	2.20	23.47	6.80	970	-4.7	"	
1519		12.10	2.8	0.46	23.33	6.85	951	-6.6	"	well dewatered
10/22/09 0929		3.04	-	-	-	-	-	-	clear	start pumping sample
0935										

Project No. 003-09155-02-002 Date: 10-21-09 Page 1 of 1

Project Name: Aspice Sampling Location: _____

Sampler's Name: K. Johnson Sample No.: MW-4 FB

Sampling Plan By: _____ Dated: _____ C.O.C. No.: _____ DUP

Purge Method: Centrifugal Pump Disposable Bailer Hand Bail Submersible Pump Teflon Bailer Other _____

Purge Water Storage Container Type: _____ Storage Location: onsite tank

Date Purge Water Disposed: _____ Where Disposed: _____

Analyses Requested _____ No. and Type of Bottles Used _____

Lab Name: CT

Delivery By Courier Hand

Well No. MW-4 Depth of Water 4.21

Well Diameter: _____ Well Depth 24.65 (measured last event)

2" (0.16 gal/feet) 5" (1.02 gal/feet) Water Column Height _____

4" (0.65 gal/feet) 6" (1.47 gal/feet) Well Volume _____

80% DTW _____

Continue remarks on reverse, if needed.

Time	Inlet Depth	Depth to Water	Volume Purged (gal)	DO (mg/L)	Temperature (C°)	PH (SU)	Cond (uS/cm)	ORP (mv)	Turb (NTU)	Remarks
0940										
0947		6.28	0.4	5.80	22.05	7.22	1285	272.6	clear	decrease flow rate
0950		6.65	0.6	5.50	22.30	7.23	1286	263.7		
0954		6.89	0.8	5.35	22.17	7.24	1284	251.7		
0958		7.00	1.0	5.27	22.22	7.25	1281	245.1		flow rate set to min
1001		6.99	1.2	4.95	22.22	7.23	1280	239.5		
1004		6.95	1.5	4.83	22.29	7.20	1279	236.6		
1007		6.95	1.7	4.40	22.30	7.20	1288	230.6		
1010		6.96	1.8	4.31	22.28	7.20	1288	230.3		
1013		7.08	1.9	4.35	22.12	7.19	1289	229.1		
1015										sample

Project No. 003-09155-02-002 Date: 10-21-09 Page 1 of 1

Project Name: Aspire Schools Sampling Location: _____

Sampler's Name: K. Johnson Sample No.: _____ FB

Sampling Plan By: _____ Dated: _____ C.O.C. No.: _____ DUP

Purge Method: Centrifugal Pump Disposable Bailer Hand Bail Submersible Pump Teflon Bailer Other _____

Purge Water Storage Container Type: _____ Storage Location: onsite tank

Date Purge Water Disposed: _____ Where Disposed: _____

Analyses Requested _____ No. and Type of Bottles Used _____

 Lab Name: C+T
 Delivery By Courier _____ Hand _____

Well No. NW-2D Depth of Water 4.13
 Well Diameter: _____ Well Depth _____
 2" (0.16 gal/feet) 5" (1.02 gal/feet) Water Column Height _____
 4" (0.65 gal/feet) 6" (1.47 gal/feet) Well Volume _____

weighted bottom of tubing
~~was~~ for sampling.
 Removed weight
 afterwards.
 80% DTW _____

Continue remarks on reverse, if needed.

Time	Inlet Depth	Depth to Water	Volume Purged (gal)	DO (mg/L)	Temperature (C°)	PH (SU)	Cond (uS/cm)	ORP (mv)	Turb (NTU)	Remarks
1312		4.13								start purge
1315		4.13	1.4	6.69	20.85	6.71	700	157.6	brown	
1318		4.13	1.7	6.92	21.23	6.70	698	161.9	slightly brown	
1325		4.12	2.2	6.49	21.38	6.70	700	170.1		
1328		4.11	2.5	6.50	21.32	6.70	700	172.9		
1331		4.11	2.7	6.40	21.48	6.70	699	175.0		
1335										sample

Project No. 003 - 09155 - 02 - 002 Date: 10-22-09 Page 1 of 1

Project Name: Aspire Schools Sampling Location: _____

Sampler's Name: K. Johnson Sample No.: _____ FB

Sampling Plan By: _____ Dated: _____ C.O.C. No.: _____ DUP

Purge Method: Centrifugal Pump Disposable Bailer Hand Bail Submersible Pump Teflon Bailer Other _____

Purge Water Storage Container Type: _____ Storage Location: onsite tank

Date Purge Water Disposed: _____ Where Disposed: _____

Analyses Requested _____ No. and Type of Bottles Used _____

Lab Name: CTT

Delivery By Courier Hand

Well No. ASMW-2D Depth of Water _____

Well Diameter: _____ Well Depth _____

2" (0.16 gal/foot) 5" (1.02 gal/foot) Water Column Height _____

4" (0.65 gal/foot) 6" (1.47 gal/foot) Well Volume _____

80% DTW _____

Continue remarks on reverse, if needed.

Time	Inlet Depth	Depth to Water	Volume Purged (gal)	DO (mg/L)	Temperature (C°)	PH (SU)	Cond (uS/cm)	ORP (mv)	Turb (NTU)	Remarks
1148		7.50							brown	
1200		5.81	1.8	9.86	20.95	7.31	1147	115.4	"	reduce flow rate
1204		5.38	2.1	9.41	21.27	7.31	1148	122.8	"	
1208		5.22	2.4	9.30	21.18	7.31	1153	129.7	"	
1211		5.12	2.6	9.22	21.20	7.31	1153	134.1	"	
1214		5.10	2.7	9.19	21.24	7.30	1153	137.6	"	
1217		5.10	2.9	9.20	21.27	7.30	1157	140.5	"	
1220										sample



WATER-QUALITY SAMPLING LOG

Project No. 003-09155-02-002 Date: 10/21/09 Page 1 of 1

Project Name: Aspire Schools Sampling Location: _____

Sampler's Name: K. Johnson Sample No.: _____ FB

Sampling Plan By: _____ Dated: _____ C.O.C. No.: _____ DUP

Purge Method: Centrifugal Pump Disposable Bailer Hand Bail Submersible Pump Teflon Bailer Other _____

Purge Water Storage Container Type: _____ Storage Location: onsite tank

Date Purge Water Disposed: _____ Where Disposed: _____

Analyses Requested	No. and Type of Bottles Used

Lab Name: CTF

Delivery By Courier Hand

well box flooded,
seal OK

80% DTW _____

Well No. ASMW-3D Depth of Water 4.65

Well Diameter: _____ Well Depth _____

2" (0.16 gal/foot) 5" (1.02 gal/foot) Water Column Height _____

4" (0.65 gal/foot) 6" (1.47 gal/foot) Well Volume _____

Continue remarks on reverse, if needed.

Time	Inlet Depth	Depth to Water	Volume Purged (gal)	DO (mg/L)	Temperature (C°)	PH (SU)	Cond (uS/cm)	ORP (mv)	Turb (NTU)	Remarks
1111		4.65							brown	start purge
1121		4.75	1.1	2.08	20.17	6.40	7749	249.7	"	Reduce flow rate
1130		4.65	1.9	1.85	20.60	6.39	7758	252.3	"	
1133		4.64	2.1	1.79	20.65	6.39	7761	252.0	"	
1136		4.64	2.3	1.77	20.69	6.39	7757	252.0	"	
1140										Sample

Project No. 003-09155-02-002 Date: 10/22/09 Page 1 of 1

Project Name: Aspire Schools Sampling Location: _____

Sampler's Name: K. Johnson Sample No.: _____ FB

Sampling Plan By: _____ Dated: _____ C.O.C. No.: _____ DUP

Purge Method: Centrifugal Pump Disposable Bailer Hand Bail Submersible Pump Teflon Bailer Other _____

Purge Water Storage Container Type: _____ Storage Location: onsite tank

Date Purge Water Disposed: _____ Where Disposed: _____

Analyses Requested	No. and Type of Bottles Used

Lab Name: CTT

Delivery By Courier Hand

Well No. ASMW-4D Depth of Water _____

Well Diameter: _____ Well Depth _____

- 2" (0.16 gal/foot) 5" (1.02 gal/foot) Water Column Height _____
 4" (0.65 gal/foot) 6" (1.47 gal/foot) Well Volume _____

80% DTW _____

Continue remarks on reverse, if needed.

Time	Inlet Depth	Depth to Water	Volume Purged (gal)	DO (mg/L)	Temperature (C°)	PH (SU)	Cond (uS/cm)	ORP (mv)	Turb (NTU)	Remarks
1004		3.52							brown	
1019		3.70	1.4	0.54	20.18	6.86	1889	339.8	"	
1022		3.70	1.8	0.39	20.15	6.85	1888	336.6	"	
1025		3.71	2.1	0.36	20.16	6.84	1889	335.1	"	
1028		3.71	2.5	0.32	20.17	6.85	1889	331.8	slightly brown	
1030										sample

Project No. 003 - 09155 - 02 - 002 Date: 10/21/09 Page 1 of 1
 Project Name: Aspire Schools Sampling Location: _____
 Sampler's Name: V. Johnson Sample No.: _____ FB
 Sampling Plan By: _____ Dated: _____ C.O.C. No.: _____ DUP
 Purge Method: Centrifugal Pump Disposable Bailer Hand Bail Submersible Pump Teflon Bailer Other _____
 Purge Water Storage Container Type: _____ Storage Location: on site tank
 Date Purge Water Disposed: _____ Where Disposed: _____

Analyses Requested	No. and Type of Bottles Used

Lab Name: CTT
 Delivery By Courier Hand

Well No. ASMW-5D Depth of Water 3.56
 Well Diameter: _____ Well Depth _____
 2" (0.16 gal/feet) 5" (1.02 gal/feet) Water Column Height _____
 4" (0.65 gal/feet) 6" (1.47 gal/feet) Well Volume _____

80% DTW _____

Continue remarks on reverse, if needed.

Time	Inlet Depth	Depth to Water	Volume Purged (gal)	DO (mg/L)	Temperature (C°)	PH (SU)	Cond (uS/cm)	ORP (mv)	Turb (NTU)	Remarks
1420		3.56							brown	start purge
1432		3.37	0.9	4.22	20.62	6.80	1772	234.3	cloudy	
1439		3.35	1.8	4.40	20.78	6.82	1770	237.7	"	
1442		3.35	2.4	4.45	20.82	6.82	1768	237.5	"	
1445		3.35	2.6	4.44	20.87	6.82	1766	2330	"	
1450										Sample

Curtis & Tompkins, Ltd.

Analytical Laboratory Since 1878

2323 Fifth Street
Berkeley, CA 94710
(510) 486-0900 Phone
(510) 486-0532 Fax

CHAIN OF CUSTODY

Analysis

C & T LOGIN #: _____

Sampler: K. Johnson

Report To: Eric Ehlers

Company: LFR

Telephone: 510-596-9555

Fax: _____

Project No.: 003-09155-02

Project Name: Aspire Schools

Project P.O.: _____

Turnaround Time: Standard
(24 hr)

Lab No.	Sample ID.	Sampling Date Time (2009)	Matrix			# of Containers	Preservative							
			Soil	Water	Waste		HCL	H ₂ SO ₄	HNO ₃	ICE				
	<u> AgMW-2 D </u>	<u> 10/22 1220 </u>		<u> X </u>		<u> 2 </u>			<u> X </u>	<u> X </u>				

<u> X </u>	<u> X </u>																		

X Ag, Cu, Se - 6010b
 X Hex Cr - 7199

Notes:

SAMPLE RECEIPT
 Intact Cold
 On Ice Ambient
 Preservative Correct?
 Yes No N/A

RELINQUISHED BY:
 K. Johnson 10/22 1440
 DATE / TIME

 DATE / TIME

 DATE / TIME

RECEIVED BY:
 Pat Angel 10/22/09 1440
 DATE / TIME

 DATE / TIME

 DATE / TIME

SIGNATURE

Curtis & Tompkins, Ltd.

Analytical Laboratory Since 1878

2323 Fifth Street
Berkeley, CA 94710
(510) 486-0900 Phone
(510) 486-0532 Fax

CHAIN OF CUSTODY

Page 1 of 1

Analysis

C & T LOGIN #: _____

Sampler: K. Johnson

Project No.: 003-09155-02

Report To: Eric Ehlers

Project Name: Aspire Schools

Company: LFR

Project P.O.: _____

Telephone: 510-596-9555

Turnaround Time: Standard

Fax: _____

Lab No.	Sample ID.	Sampling Date Time (2009)	Matrix			# of Containers	Preservative				TPH g	BTXE	Fuel Organics
			Soil	Water	Waste		HCL	H ₂ SO ₄	HNO ₃	ICE			
	NW-2I	10/22 0930		X		3	X				X	X	X
	ASMW-2I	10/21 1100		X									
	ASMW-3I	10/21 1720		X									
	ASMW-4I	10/22 1115		X									
	ASMW-5I	10/22 0935		X									
	MW-4	10/21 1015		X									
	NW-2D	10/21 1935		X									
	ASMW-2D	10/22 1220		X									
	ASMW-3D	10/21 1140		X									
	ASMW-4D	10/22 1030		X									
	ASMW-5D	10/21 1450		X									
	Dup-1	10/21 0800		X									
	Trip Blank	-		X		2							

Notes:

SAMPLE RECEIPT

Intact Cold

On Ice Ambient

Preservative Correct?

Yes No N/A

RELINQUISHED BY:

K. Johnson

10/22 1440
DATE / TIME

RECEIVED BY:

Pat Langley 10/22/09 14:40
DATE / TIME

DATE / TIME

DATE / TIME

DATE / TIME

DATE / TIME

SIGNATURE