Monday Oct of County

THIRD QUARTER 2004 GROUNDWATER MONITORING

ABE Petroleum LLC 17715 Mission Boulevard Hayward, California 94539

> Prepared for Mr. Paul Garg ABE Petroleum LLC

Prepared by Sierra Environmental, Inc.

September 24, 2004 Project 03-103.07



Sierra Environmental, Inc. Environmental Consultants

September 24, 2004 Project 03-103.07

Mr. Paul Garg ABE Petroleum LLC 33090 Mission Boulevard Union City, California 94587



Subject:

Report for Third Quarter 2004 Groundwater Monitoring, ABE

Petroleum LLC, 17715 Mission Boulevard, Hayward, California

Dear Mr. Garg:

Sierra Environmental, Inc. (Sierra) is pleased to present this report summarizing the results of the third quarter 2004 groundwater monitoring at the subject location, hereafter, referred to as Site. Figure 1 shows the Site location. The groundwater monitoring was concurred by Alameda County Health Care Services (ACHCS) in a letter dated February 16, 2000, as result of gasoline impact to groundwater beneath the Site.

On September 9, 2004, Sierra obtained and recorded groundwater data, and collected groundwater samples from three groundwater monitoring wells (MW1 through MW3) at the Site for chemical analysis. Sierra submitted the samples to Entech Analytical Labs, Inc. (Entech) of Santa Clara, California for chemical analysis. Entech is an independent State-certified analytical laboratory (# 2346).

BACKGROUND

On September 16, 1997, Balch Petroleum Contractors & Builders, Inc. (Balch) of Milpitas, California, removed one 2,000-gallon, two 6,000-gallon, one 10,000-gallon single-wall steel gasoline, and one 500-gallon single-wall steel waste oil USTs from the Site. Former UST locations are shown in Figure 2.

No hole or damage was observed in the tanks. No groundwater was encountered in the tank excavations. After UST removal, Sierra collected soil samples from the tank excavations for chemical analysis.

Up to 2,300 parts per million (ppm) total petroleum hydrocarbons as gasoline (TPHG) was detected in the soil samples collected from beneath the tanks at approximately 14 feet below ground surface (bgs). The soil sample locations are shown in Figure 2.

On August 14, 2000, Sierra drilled three exploratory soil borings and converted them to groundwater monitoring well MW1 through MW3. The wells are approximately 35 feet deep. Sierra collected soil and groundwater samples from the borings/wells for chemical analysis. The analytical results showed up to 720 ppm TPHG, 2.2 ppm benzene, and 3.4 ppm methyl tertiary butyl ether (MTBE) in the soil samples. Up to 290000 ppb TPHG, 10000 ppb benzene, and 4300 ppb MTBE were detected in the groundwater samples. Gasoline constituents were detected in groundwater samples collected from all three monitoring wells. Groundwater monitoring well locations are shown on Figure 3.

On March 30, 2001, Sierra performed first quarter 2001 groundwater monitoring at the Site. The field and analytical results are presented in Table I and II. Groundwater was measured at approximately 20 to 21 feet from top of the well casing (TOC) at the Site with a northwesterly flow direction.

On June 22, 2001, Sierra performed second quarter 2001 groundwater monitoring at the Site. Groundwater levels were measured at approximately 22 to 23 feet below TOC with a northwesterly flow direction during this monitoring event.

On September 20, 2001, Sierra performed third quarter 2001 groundwater monitoring at the Site. Depth of groundwater was measured to the TOC. Groundwater levels were measured at approximately 24 to 25 feet below TOC with a northwesterly flow direction during this monitoring event.

On December 27, 2001, Sierra performed fourth quarter 2001 groundwater monitoring at the Site. Depth of groundwater was measured to the TOC. Groundwater levels were measured at approximately 22.59 to 23.82 feet below TOC with a northwesterly flow direction during this monitoring event.

On September 24, 2002, Sierra performed third quarter 2002 groundwater monitoring at the Site. Depth of groundwater was measured to the TOC. Groundwater levels were measured at approximately 23.69 to 24.89 feet below TOC with a northwesterly flow direction during this monitoring event.

On December 17, 2002, Sierra performed fourth quarter 2002 groundwater monitoring at the Site. Depth of groundwater was measured to the TOC. Groundwater levels were

measured at approximately 22.75 to 23.99 feet below TOC with a northwesterly flow direction during this monitoring event.

On April 2, 2003, Sierra performed first quarter 2003 groundwater monitoring at the Site. Depth of groundwater was measured to the TOC. Groundwater levels were measured at approximately 21.25 to 22.32 feet below TOC with a westerly flow direction during this monitoring event.

On June 12, 2003, Sierra performed second quarter 2003 groundwater monitoring at the site. Depth of groundwater was measured to the TOC. Groundwater levels were measured at approximately 20.64 to 20.94 feet below TOC with a westerly flow direction during this monitoring event.

Sierra prepared soil and Groundwater investigation plan and addendum to the plan dated May 27 and September 10, 2003 respectively for the site. The Addendum to the plan dated September 10, 2003 is being reviewed by ACHCS.

On September 29, 2003, Sierra performed third quarter 2003 groundwater monitoring at the site. Depth of groundwater was measured to the TOC. Groundwater levels were measured at approximately 22.95 to 24.15 feet below TOC with a westerly flow direction during this monitoring event.

On December 4, 2003, Sierra performed fourth quarter 2003 groundwater monitoring at the site. Depth of groundwater was measured to the TOC. Groundwater levels were measured at approximately 23.70 to 24.91 feet below TOC with a westerly flow direction during this monitoring event.

On March 9, 2004, Sierra performed second quarter 2004 groundwater monitoring at the Site. Sierra's field personnel measured the groundwater levels at MW1 through MW3 (Figure 3) using an electronic sounder. Depth of groundwater was measured to the TOC. Groundwater levels were measured at approximately 19.80 to 20.20 feet below TOC with a northwesterly flow direction during this monitoring event. Table I presents the groundwater measurement data.

On June 24, 2004, Sierra performed first quarter 2004 groundwater monitoring at the Site. Sierra's field personnel measured the groundwater levels at MW1 through MW3 (Figure 3) using an electronic sounder. Depth of groundwater was measured to the TOC. Groundwater levels were measured at approximately 21.44 to 22.95 feet below TOC with a northwesterly flow direction during this monitoring event. Table I presents the groundwater measurement data.

GROUNDWATER MONITORING

On September 9, 2004, Sierra performed the third quarter 2004 groundwater monitoring at the Site. Sierra's field personnel measured the groundwater levels at MW1 through MW3 (Figure 3) using an electronic sounder. Depth of groundwater was measured to the TOC. Groundwater levels were measured at approximately 20.20 to 24.55 feet below TOC with a northerly flow direction during this monitoring event. Table I presents the groundwater measurement data.

Sierra's field personnel purged the wells using bailers. pH, temperature, and electrical conductivity of groundwater were recorded during the purging activities to affirm that groundwater in the wells have stabilized. After completion of the purging, groundwater samples MW-1 through MW-3 were collected from the wells. After collection, the groundwater from each well was transferred into clean volatile organic analysis (VOA) vials. The VOAs were sealed with Teflon-septum screw caps, labeled, placed on ice in a cooler, and delivered to Entech with chain-of-custody documentation.

All sampling and measurement equipment were washed with Liqui-Nox® (a phosphate free laboratory detergent), and rinsed with tap water at each measurement and sampling interval. Purged and wash water was stored in 55-gallon drums at a designated location at the Site. Sierra's quality assurance/quality control (QA/QC) protocol is presented in Appendix A.

CHEMICAL ANALYSIS

The samples were analyzed for TPHG using the United States Environmental Protection Agency (EPA) modified method 8015, and for benzene, toluene, ethyl benzene, and total xylenes (BTEX), and for the fuel oxygenates using EPA method 8260B. Copies of certified analytical results and chain-of-custody documentation are presented in Appendix B. Copies of the field notes are presented in Appendix C.

Sierra has submitted the analytical results to the State Water Board via Geotracker.

ANALYTICAL RESULTS

Table II presents Summary of the analytical results.

CONCLUSION AND RECOMMENDATIONS

The analytical results obtained during this monitoring event show a generally increasing trend in concentrations of the gasoline constituents in the groundwater beneath the Site.

Sierra recommends proceeding with the soil and groundwater investigation, and corrective action at the site as soon as possible. Sierra is awaiting a response from ACHCS regarding its addendum to work plan for soil and groundwater investigation at the site. Sierra also recommends continuing with quarterly groundwater monitoring at the site for the last quarter of 2004.

LIMITATIONS

The content and conclusion provided by Sierra in this report are based on information collected during its assessment/monitoring, which include, but are not limited to field observations and analytical results for the groundwater samples collected at the Site.

Sierra assumes that the samples collected and laboratory results are reasonably representative of the whole Site, which may not be the case at unsampled areas.

This assessment/monitoring was performed in accordance with generally accepted principles and practices of environmental engineering and assessment in Northern California at the time of the work. This report presents our professional opinion based on our findings, technical knowledge, and experience working on similar projects. No warranty, either expressed or implied, is made. The conclusions presented are based on the analytical results and current regulatory requirements. We are not responsible for the impact of any changes in environmental standards or regulations in the future.

Please feel welcome to call us if you have questions.

Very Truly Yours, Sierra Environmental, Inc.

SEP 29 2 2004

Reza Baradaran, PE, GE

Principal

Mitch Hajiaghai, REA II, CAC Principal

Attachments:

Table I - Groundwater Elevation Data

Table II - Analytical Results for Groundwater Samples

Figure 1 - Site Location Map

Figure 2 - Former UST and Soil Sample Locations
Figure 3 - Groundwater Monitoring Well Locations

Appendix A - QA/QC Protocol

Appendix B - Certified Analytical Results and Chain-of-Custody Documentation

Appendix C - Field Notes

cc: Mr.Scott O. Seery, ACHCS (1 Copy)

R03-103.06\3rdQ2004GWMH09242004

TABLE I **GROUNDWATER ELEVATION DATA**

| Well ID | Measurement Date | Well Casing Diameter (in) | Well Casing Elevation (ft) | Depth to Water ¹ (ft) | Water Table ² Elevation (ft) |
|------------|---------------------|---------------------------------|----------------------------------|--|---|
| MW1 | 8-18-00 | 2 | 99.46 | 20.32 | 79.14 |
| | 3-30-01 | | | 20.30 | 79.16 |
| | 6-22-01 | | | 21.91 | 77.55 |
| | 9-20-01 | | | 23.56 | 75.90 |
| | 12-27-01 | | | 22.59 | 76.87 |
| | 9-24-02 | | | 23.69 | 75.77 |
| | 12-17-02 | | | 22.75 | 76.71 |
| | 4-2-03 | | | 21.15 | 78.31 |
| | 6-12-03 | | | 20.64 | 78.82 |
| | 9-29-03 | | | 22.95 | 76.51 |
| | 12-04-03 | | | 23.70 | 75.76 |
| | 03-09-04 | | | 19.80 | 79.66 |
| | 6-24-04 | | | 21.44 | 78.02 |
| | 9-09-04 | | | 23.30 | 76.16 |
| MW2 | 8-18-00 | 2 | 100.58 | 21.55 | 79.03 |
| | 3-30-01 | | | 21.55 | 79.03 |
| | 6-22-01 | | | 23.15 | 77.43 |
| | 9-20-01 | | | 24.78 | 75.80 |
| | 12-27-01 | | | 23.82 | 76.76 |
| | 9-24-02 | | | 24.89 | 75.69 |
| | 12-17-02 | | | 23.99 | 76.59 |
| | 4-2-03 | | | 22.32 | 78.26 |
| | 6-12-03 | | | 21.84 | 78.74 |
| | 9-29-03 | | | 24.15 | 76.43 |
| | 12-04-03 | | | 24.91 | 75.67 |
| | 03-09-04 | | | 21.05 | 79.53 |
| | 6-24-04 | | | 22.95 | 77.63 |
| | 9-09-04 | | | 24.55 | 76.03 |
| 1.0040 | | 0 | 00.00 | 20.68 | 79.01 |
| MW3 | 8-18-00 | 2 | 99.69 | | 79.01 |
| | 3-30-01 | | | 20.68 | |
| | 6-22-01 | | | 22.31 | 77.38 |
| | 9-20-01 | | | 23.92 | 75.77 |
| | 12-27-01 | | | 22.95 | 76.74 |
| | 9-24-02 | | | 24.03 | 75.66 |
| | 12-17-02 | | | 23.09 | 76.60 |
| | 4-2-03 | | | 21.46 | 78.23 |
| | 6-12-03 | | | 20.99 | 78.70 |
| | 9-29-03 | | | 23.30 | 76.39 |
| | 12-04-03 | | | 24.05 | 75.64 |
| | 03-09-04 | | | 20.20 | 79.49 |
| i | 6-24-04 | | | 22.11 | 77.58 |
| | 9-09-04 | | | 20.20 | 79.49 |

^{1.}

Depths to groundwater were measured to the top of the well casings Water table elevations were measured in relation to an assumed datum (100') relative elevation 2.

TABLE II
ANALYTICAL RESULTS FOR GROUNDWATER SAMPLES

| Sample ID | Sample Date | Sample Location | TPHG ¹ ppb ³ | Benzene ppb | Toluene ppb | Ethylbenzene ppb | Xylenes ppb | MTBE ² ppb |
|--------------|----------------|--------------------|---------------------------------------|----------------|----------------|---------------------|----------------|--------------------------|
| MW-1 | 8-18-00 | MW1 | 280,000 | 10,000 | 16,000 | 11,000 | 49,000 | 4,000 |
| * | 3-30-01 | 141441 | 98,000 | 8,600 | 14,000 | 6,300 | 26,000 | 7,600 |
| * | 6-22-01 | | 110,000 | 7,500 | 12,000 | 5,700 | 24,000 | 3,800 |
| * | 9-20-01 | | 93,000 | 8,700 | 11,000 | 6,300 | 27,000 | 4,600 |
| * | 12-27-01 | | 140,000 | 7,700 | 11,000 | 6,500 | 28,000 | 7,700 |
| * . | 9-24-02 | | 110,000 | 4,600 | 4,000 | 4,000 | 18,000 | 3,400 |
| * | 12-17-02 | | 110,000 | 6,600 | 6,700 | 5,400 | 23,000 | 2,900 |
| * | 4-2-03 | | 89,000 | 4,800 | 6,000 | 4,600 | 20,000 | 5,900 |
| * | 6-12-03 | | 69,000 | 4,100 | 4,300 | 3,900 | 17,000 | 4,700 |
| * | 9-29-03 | | 96,000 | 7,000 | 7,700 | 5,100 | 22,000 | 6,200 |
| * | 12-04-03 | | 110,000 | 5,800 | 5,900 | 4,300 | 18,000 | 4,500 |
| * | 03-09-04 | | 130,000 | 5,900 | 9,700 | 4,900 | 22,000 | 6,000 |
| * | 6-24-04 | | 48,000 | 5,800 | 7,500 | 4,000 | 18,000 | 4,000 |
| * | 9-09-04 | | 64,000 | 4,800 | 7,500 | 4,500 | 19,000 | 2,200 |
| MW-2 | 8-18-00 | MW2 | 290,000 | 3700 | 990 | 7,300 | 26,000 | ND⁴ |
| * | 3-30-01 | | 47,000 | 3,200 | 470 | 4,500 | 13,000 | 3,100 |
| * | 6-22-01 | | 57,000 | 2,500 | 350 | 4,200 | 12,000 | 1,800 |
| * | 9-20-01 | | 42,000 | 2,300 | 230 | 4,300 | 12,000 | 2,200 |
| * | 12-27-01 | | 70,000 | 2,900 | 390 | 4,800 | 14,000 | 2,400 |
| * | 9-24-02 | | 110,000 | 1,600 | 200 | 3,400 | 9,100 | 2,500 |
| * | 12-17-02 | | 66,000 | 2,400 | 340 | 4,600 | 13,000 | 1,900 |
| * | 4-2-03 | | 29,000 | 1,000 | 130 | 2,300 | 5,100 | 2,000 |
| * | 6-12-03 | | 8,700 | 380 | 52 | 790 | 2,000 | 2,200 |
| * | 9-29-03 | | 52,000 | 1,700 | 200 | 4,500 | 9,800 | 2,300 |
| * | 12-04-03 | | 66,000 | 1,500 | 210 | 4,500 | 9,200 | 1,900 |
| * | 03-09-04 | | 61,000 | 1,500 | 2,000 | 4,200 | 8,500 | 2,200 |
| * | 6-24-04 | | 29,000 | 1,200 | 72 | 3,100 | 6,000 | 2,100 |
| * | 9-09-04 | | 37,000 | 1,600 | 110 | 4,000 | 8,500 | 3,100 |

TABLE II **ANALYTICAL RESULTS FOR GROUNDWATER SAMPLES** CONTINUED

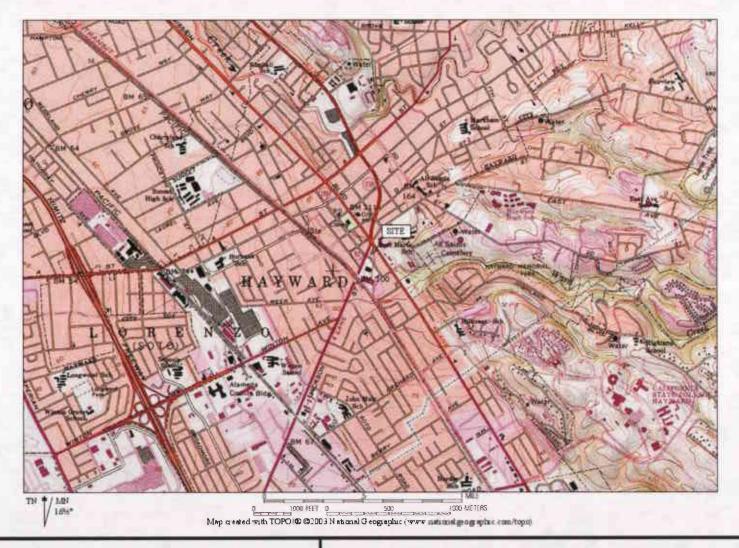
| Sample ID | Sample Date | Sample Location | TPHG ¹ ppb ³ | Benzene ppb | Toluene ppb | Ethylbenzene ppb | Xylenes ppb | MTBE ² ppb |
|--------------|----------------|--------------------|---------------------------------------|----------------|----------------|---------------------|----------------|--------------------------|
| MW-3 | 8-18-00 | мwз | 46,000 | 3,200 | 550 | 3,700 | 14,000 | 2,200 |
| * | 3-30-01 | | 30,000 | 3,300 | 340 | 2,800 | 9,100 | 4,700 |
| * | 6-22-01 | | 35,000 | 4,000 | 340 | 2,900 | 7,600 | 4,100 |
| * | 9-20-01 | | 30,000 | 3,800 | 260 | 2,500 | 6,600 | 5,300 |
| * | 12-27-01 | | 39,000 | 4,400 | 340 | 3,000 | 6,700 | 5,500 |
| * | 9-24-02 | | 53,000 | 4,100 | 270 | 3,100 | 6,600 | 6,400 |
| * | 12-17-02 | | 40,000 | 3,600 | 240 | 2,200 | 5,700 | 5,200 |
| * | 4-2-03 | | 24,000 | 2,000 | 130 | 1,800 | 3,300 | 3,000 |
| * | 6-12-03 | | 26,000 | 2,700 | 180 | 2,000 | 4,200 | 5,500 |
| * | 9-29-03 | | 39,000 | 4,000 | 220 | 3,200 | 5,300 | 4,800 |
| * | 12-04-03 | | 40,000 | 3,200 | 180 | 2,200 | 4,300 | 4,400 |
| * | 03-09-04 | | 39,000 | 3,100 | 160 | 2,100 | 4,400 | 4,000 |
| * | 6-24-04 | | 21,000 | 3,000 | 110 | 2,300 | 3,800 | 3,400 |
| * | 9-09-04 | | 26,000 | 4,100 | 140 | 2,200 | 4,300 | 6,000 |

1. TPHG = 2. MTBE = Total Petroleum Hydrocarbons as Gasoline

Methyl Tertiary Butyl Ether Parts Per Billion (µg/liter) 3. ppb =

Not Detected 4. ND

The Sample was analyzed for Fuel Oxygenates using EPA Method 8260B. Analytical result is for MTBE





SIERRA ENVIRONMENTAL, INC. Environmental Consultants

980 W. Taylor St.,San Jose, CA 95126 Phone [408]971-6758 • Fax [408] 971-6759

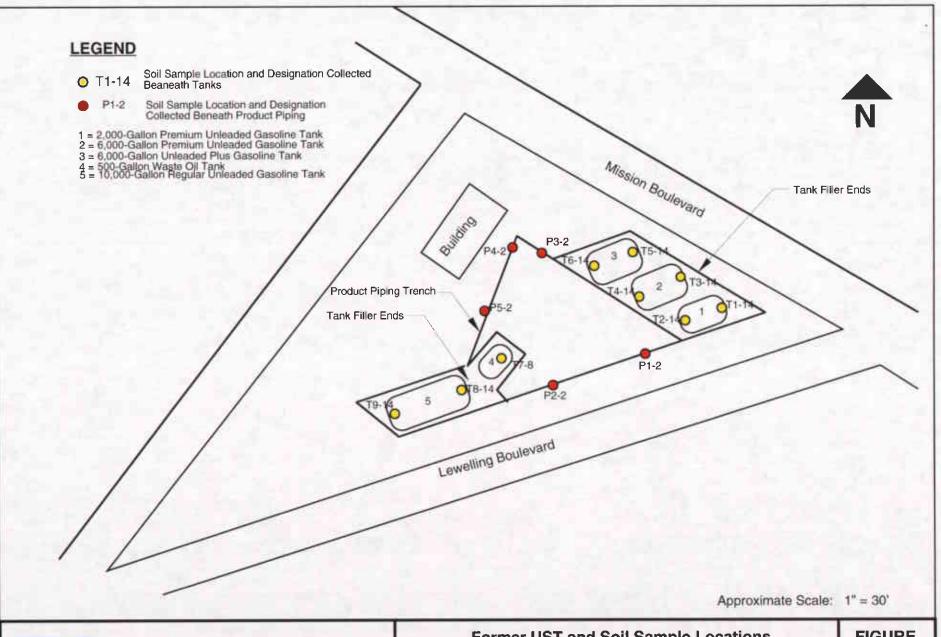
Site Location Map

Third Quarter 2004 Groundwater Monitoring ABE Petroleum LLC

17715 Mission Boulevard • Hayward • California

FIGURE

Sep 24, 2004 Project 03-103.07





SIERRA ENVIRONMENTAL, INC. Environmental Consultants

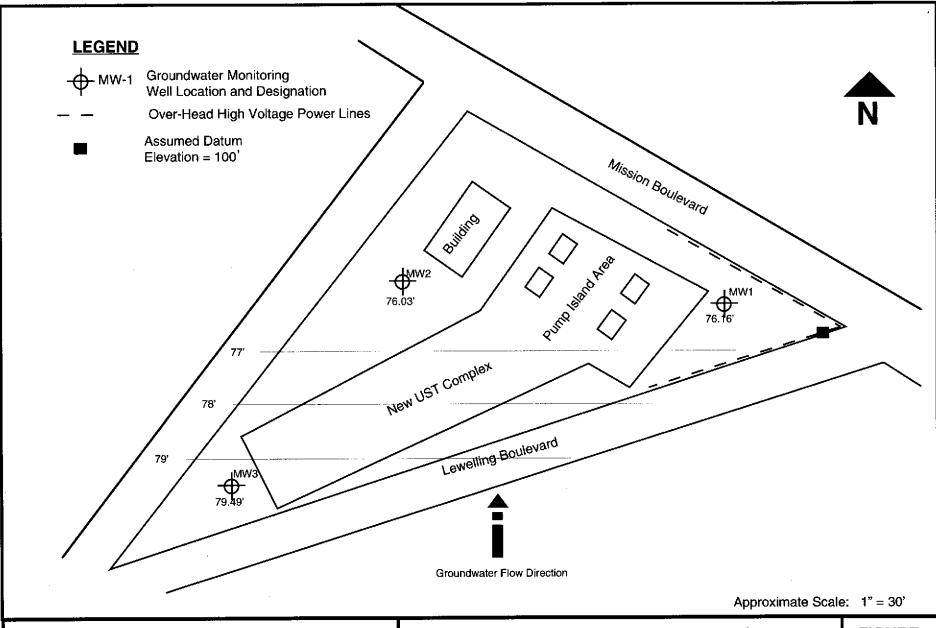
980 W. Taylor St., San Jose, CA 95126 Phone [408]971-6758 • Fax [408] 971-6759 Former UST and Soil Sample Locations

Third Quarter 2004 Groundwater Monitoring ABE Petroleum LLC

17715 Mission Boulevard • Hayward • California

FIGURE

Sep 24, 2004 Project 03-103.07





SIERRA ENVIRONMENTAL, INC. Environmental Consultants

980 W. Taylor St., San Jose, CA 95126 Phone [408]971-6758 • Fax [408] 971-6759 **Groundwater Monitoring Well Locations**

Second Quarter 2004 Groundwater Monitoring ABE Petroleum LLC

17715 Mission Boulevard • Hayward • California

FIGURE

July 12, 2004 Project 03-103.07

Appendix A QA/QC PROTOCOL

QA/QC PROTOCOL

Groundwater Level and Well Depth Measurements

Groundwater level and well depths are measured using electrical sounder. An electrical sounder consists of a reel, two-conductor cable, a water sensor, and a control panel with a buzzer. To measure groundwater level, the sensor is lowered into a well. A low current circuit is completed when the sensor makes contact with water. The current in the circuit is then amplified and activates a buzzer which produce an audible signal. Cable markings are divided at 0.05-foot increments. Well depths are measured to the nearest 0.01 foot. Groundwater levels are measured before and after sample collection to ensure data accuracy.

Well Purging

Low flow submersible electrical pumps or bailers are used to purge groundwater monitoring wells. Approximately 3 to 5 well casing volume of water is removed from the well as a measure to stabilize natural, and representative groundwater in each well. pH, electrical conductivity, and temperature of the purged water is measured and recorded at approximately each casing volume interval. Purge water is stabilized when pH is recorded within 0.5 unit, electrical conductivity is within 5 percent, and temperature is within 1.0 degree Celsius.

Groundwater Sampling

Groundwater samples are transferred into appropriate containers provided by certified analytical laboratories. The containers include proper preservatives, and labels with appropriate project information. Groundwater is transferred into the containers with as little agitation as possible. After collection, containers are sealed and checked to ensure that no head space or air bubbles are present in the sample.

After collection, if required, samples are kept in a cooler to be delivered to analytical laboratory with chain-of-custody documentation.

Equipment Decontamination

All sampling equipment are washed with Liqui-Nox® (a phosphate free laboratory detergent), and rinsed with tap water before each sampling event, and at each sampling interval. To reduce the risk of cross contamination, wells which have shown lower levels of contamination historically are purged and sampled first.

Analytical Procedures

Samples are analyzed by an accredited State-certified analytical laboratory using procedures prescribed by United State Environmental Protection Agency (EPA) and other Federal, State, and Local agencies. At minimum a field blank is analyzed with each group of samples for quality

assurance measures. At minimum two qualified personnel review analytical results and compare them with historical data for consistency and accuracy.

Field Reports

All field observations are documented in field reports. A field report contain project information, climatic condition, contractor/subcontractor information, field observation, discussions and communications during each particular field activity. Field reports are stored in appropriate project files. Project managers review field reports to obtain necessary information regarding the status of each project on daily basis.

Appendix B CERTIFIED ANALYTICAL REPORTS AND CHAIN-OF-CUSTODY DOCUMENTATION

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

Mitch Hajiaghai

Certificate ID: 40325 - 9/14/2004 4:52:04 PM

Sierra Environmental, Inc. 980 West Taylor Street San Jose, CA 95126

> Order: 40325

Project Name:

ABE

Project Number: 03-103.07

Date Collected:

9/9/2004

Date Received:

9/9/2004

P.O. Number: 03-103.07

Certificate of Analysis - Final Report

On September 09, 2004, samples were received under chain of custody for analysis. Entech analyzes samples "as received" unless otherwise noted. The following results are included:

Matrix

Test

Method

Comments

Liquid

8260Petroleum

EPA 8260B

TPH as Gasoline - GC/MS

GC-MS

Entech Analytical Labs, Inc. is certified for environmental analyses by the State of California (#2346). If you have any questions regarding this report, please call us at 408-588-0200 ext. 225.

Sincerely,

Laurie Glantz-Murphy

Laboratory Director

3334 Victor Court, Santa Clara, CA 95054

Phone: (408) 588-0200

Fax: (408) 588-0201

Sierra Environmental, Inc. 980 West Taylor Street San Jose, CA 95126 Attn: Mitch Hajiaghai Project Number: 03-103.07 Project Name: ABE Date Received: 9/9/2004 P.O. Number: 03-103.07 Sampled By: Client

Certificate of Analysis - Data Report

Lab #: 40325-001 Sample ID: MW-1 Matrix: Liquid Sample Date: 9/9/2004

| Parameter | Result | Flag DF | Detection Limit | Units | Prep Date | Prep Batch | Analysis Date | QC Batch |
|------------------------|--------------------|-----------|------------------------|-------|-----------|------------|------------------|------------|
| Benzene | 4800 | 200 | 100 | μg/L | N/A | N/A | 09/13/2004 | WMS1040913 |
| Toluene | 7500 | 200 | 100 | μg/L | N/A | N/A | 09/13/2004 | WMS1040913 |
| Ethyl Benzene | 4500 | 200 | 100 | μg/L | N/A | N/A | 09/13/2004 | WMS1040913 |
| Xylenes, Total | 19000 | 200 | 200 | μg/L | N/A | N/A | 09/13/2004 | WMS1040913 |
| Methyl-t-butyl Ether | 2200 | 200 | 200 | μg/L | N/A | N/A | 09/13/2004 | WMS1040913 |
| Ethyl-t-butyl Ether | ND | 200 | 1000 | μg/L | N/A | N/A | 09/13/2004 | WMS1040913 |
| tert-Butanol (TBA) | ND | 200 | 2000 | μg/L | N/A | N/A | 09/13/2004 | WMS1040913 |
| Diisopropyl Ether | ND | 200 | 1000 | μg/L | N/A | N/A | 09/13/2004 | WMS1040913 |
| tert-Amyl Methyl Ether | ND | 200 | 1000 | μg/L | N/A | N/A | 09/13/2004 | WMS1040913 |
| Surrogate | Surrogate Recovery | Control L | imits (%) | | | • | Analyzed by: Xbi | an |
| | | | | | | | | |

4-Bromofluorobenzene 97.3 64 - 125 Reviewed by: MTU

Dibromofluoromethane 102.0 23 - 172

Toluene-d8 95.6 70 - 134

Method: GC-MS

| Parameter | Result | Flag DF | Detection Limit | Units | Prep Date | Prep Batch | Analysis Date | QC Batch |
|----------------------|--------------------|------------|-----------------|-------|-----------|------------|-------------------|------------|
| TPH as Gasoline | 64000 | 200 | 5000 | μg/L | N/A | N/A | 09/13/2004 | WMS1040913 |
| Surrogate | Surrogate Recovery | Control Li | mits (%) | | | | Analyzed by: Xbia | ın |
| 4-Bromofluorobenzene | 95.9 | 64 - | 125 | | | | Reviewed by: MT | U |
| Dibromofluoromethane | 101,0 | 23 - | 172 | | | | | |
| Toluene-d8 | 96.9 | 70 - | 134 | | | | | |

3334 Victor Court, Santa Clara, CA 95054

Phone: (408) 588-0200

Fax: (408) 588-0201

Sierra Environmental, Inc. 980 West Taylor Street San Jose, CA 95126 Attn: Mitch Hajiaghai

Project Number: 03-103.07 Project Name: ABE Date Received: 9/9/2004 P.O. Number: 03-103.07 Sampled By: Client

Certificate of Analysis - Data Report

Lab #: 40325-002

Sample ID: MW-2

93.6

Matrix: Liquid Sample Date: 9/9/2004

| Parameter | Result | Flag DF | Detection Limit | Units | Prep Date | Prep Batch | Analysis Date | QC Batch |
|------------------------|--------------------|-----------|-----------------|---------------|-----------|------------|-------------------|-------------|
| Benzene | 1600 | 100 | 50 | μg/L | N/A | N/A | 09/13/2004 | WMS1040913 |
| Toluene | 110 | 100 | 50 | μ g/ L | N/A | N/A | 09/13/2004 | WMS1040913 |
| Ethyl Benzene | 4000 | 100 | 50 | μg/L | N/A | N/A | 09/13/2004 | WMS1040913 |
| Xylenes, Total | 8500 | 100 | 100 | μg/L | N/A | N/A | 09/13/2004 | WMS1040913 |
| Methyl-t-butyl Ether | 3100 | 100 | 100 | μg/L | N/A | N/A | 09/13/2004 | WMS1040913 |
| Ethyl-t-butyl Ether | ND | 100 | 500 | μg/L | N/A | N/A | 09/13/2004 | WMS1040913 |
| tert-Butanol (TBA) | ND | 100 | 1000 | μg/L | N/A | N/A | 09/13/2004 | WM\$1040913 |
| Diisopropyl Ether | ND | 100 | 500 | μg/L | N/A | N/A | 09/13/2004 | WMS1040913 |
| tert-Amyl Methyl Ether | ND | 100 | 500 | μg/L | N/A | N/A | 09/13/2004 | WMS1040913 |
| Surrogate | Surrogate Recovery | Control I | imits (%) | | | | Analyzed by: Xbia | in |
| 4-Bromofluorobenzene | 85.0 | 64 - | 125 | | | | Reviewed by: MT | U |
| Dibromofluoromethane | 102.0 | 23 - | 172 | | | | | |

Method: GC-MS

Toluene-d8

| Parameter | Result | Flag DF | Detection Limit | Units | Prep Date | Prep Batch | Analysis Date | QC Batch |
|----------------------|--------------------|-----------|------------------------|-------|-----------|------------|---------------------|----------------|
| TPH as Gasoline | 37000 | 100 | 2500 | μg/L | N/A | N/A | 09/13/2004 | WMS1040913 |
| Surrogate | Surrogate Recovery | Control L | imits (%) | | | | Analyzed by: Xbi | an |
| 4-Bromofluorobenzene | 93.3 | 64 - | 125 | | | | Reviewed by: MT | U |
| Dibromofluoromethane | 101.0 | 23 - | 172 | | | | 110110111000). 1111 | · - |
| Toluene-d8 | 94.9 | 70 - | 134 | | | | | |

70 - 134

3334 Victor Court, Santa Clara, CA 95054

96.9

Phone: (408) 588-0200

Fax: (408) 588-0201

Sierra Environmental, Inc. 980 West Taylor Street San Jose, CA 95126 Attn: Mitch Hajiaghai

Project Number: 03-103.07 Project Name: ABE Date Received: 9/9/2004 P.O. Number: 03-103.07 Sampled By: Client

Certificate of Analysis - Data Report

Lab #: 40325-003 Sample ID: MW-3 Matrix: Liquid Sample Date: 9/9/2004

134

| Parameter | Result | Flag DF | Detection Limit | Units | Prep Date | Prep Batch | Analysis Date | QC Batch |
|------------------------|--------------------|-----------|------------------------|---------------|-----------|------------|-------------------|------------|
| Benzene | 4100 | 100 | 50 | μ g/ L | N/A | N/A | 09/13/2004 | WMS1040913 |
| Toluene | 140 | 100 | 50 | μg/L | N/A | N/A | 09/13/2004 | WMS1040913 |
| Ethyl Benzene | 2200 | 100 | 50 | μg/L | N/A | N/A | 09/13/2004 | WMS1040913 |
| Xylenes, Total | 4300 | 100 | 100 | μg/L | N/A | N/A | 09/13/2004 | WMS1040913 |
| Methyl-t-butyl Ether | 6000 | 100 | 100 | μg/L | N/A | N/A | 09/13/2004 | WMS1040913 |
| Ethyl-t-butyl Ether | ND | 100 | 500 | μg/L | N/A | N/A | 09/13/2004 | WMS1040913 |
| tert-Butanol (TBA) | ND | 100 | 1000 | μg/L | N/A | N/A | 09/13/2004 | WMS1040913 |
| Diisopropyl Ether | ND | 100 | 500 | μ g /L | N/A | N/A | 09/13/2004 | WMS1040913 |
| tert-Amyl Methyl Ether | ND | 100 | 500 | μg/L | N/A | N/A | 09/13/2004 | WMS1040913 |
| Surrogate: | Surrogate Recovery | Control L | imits (%) | | | | Analyzed by: Xbia | an |
| 4-Bromofluorobenzene | 87.9 | 64 - | 125 | | | | Reviewed by: MT | U |
| Dibromofluoromethane | 98.9 | 23 - | 172 | | | | | |

Method: GC-MS

Toluene-d8

| Parameter | Result | Flag DF | Detection Limit | Units | Prep Date | Prep Batch | Analysis Date | QC Batch |
|----------------------|--------------------|------------|-----------------|-------|-----------|------------|-------------------|------------|
| TPH as Gasoline | 26000 | 100 | 2500 | μg/L | N/A | N/A | 09/13/2004 | WMS1040913 |
| Surrogate | Surrogate Recovery | Control Li | mits (%) | | | | Analyzed by: Xbia | an |
| 4-Bromofluorobenzene | 96.5 | 64 - | 125 | | | | Reviewed by: MT | U |
| Dibromofluoromethane | 98.0 | 23 - | 172 | | | | ************* | |
| Toluene-d8 | 98.2 | 70 - | 134 | | | | | |

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Quality Control - Method Blank Liquid

Validated by: MTU - 09/14/04

QC Batch ID: WMS1040913

Analysis Date: 9/13/2004

| Method Blank | | | | | |
|-----------------------------|--------|----|-----|------|-----------|
| Method: EPA 8260B | | | | | |
| Parameter | Result | DF | PQL | PQLR | Units |
| 1,1,1,2-Tetrachloroethane | ND | 1 | 0.5 | 0.5 | μg/L |
| 1,1,1-Trichloroethane | ND | 1 | 0.5 | 0.5 | μg/L |
| 1,1,2,2-Tetrachloroethane | ND | 1 | 0.5 | 0.5 | μg/L |
| 1,1,2-Trichloroethane | ND | 1 | 0.5 | 0.5 | μg/L |
| 1,1-Dichloroethane | ND | 1 | 0.5 | 0.5 | μg/L |
| 1,1-Dichloroethene | ND | 1 | 0.5 | 0.5 | μg/L |
| 1,1-Dichloropropene | ND | 1 | 0.5 | 0.5 | μg/L |
| 1,2,3-Trichlorobenzene | ND | 1 | 5 | 5 | μg/L |
| 1,2,3-Trichloropropane | ND | 1 | 0.5 | 0.5 | μg/L |
| 1,2,4-Trichlorobenzene | ND | 1 | 5 | 5 | μg/L |
| 1,2,4-Trimethylbenzene | ND | 1 | 5 | 5 | μg/L |
| 1,2-Dibromo-3-Chloropropane | ND | 1 | 5 | 5 | μg/L |
| 1,2-Dibromoethane (EDB) | ND | 1 | 0.5 | 0.5 | μg/L |
| 1,2-Dichlorobenzene | ND | 1 | 0.5 | 0.5 | μg/L |
| 1,2-Dichloroethane | ND | 1 | 0.5 | 0.5 | μg/L |
| 1,2-Dichloropropane | ND | 1 | 0.5 | 0.5 | μg/L |
| 1,3,5-Trimethylbenzene | ND | 1 | 5 | 5 | μg/L |
| 1,3-Dichlorobenzene | ND | 1 | 0.5 | 0.5 | μg/L |
| 1,3-Dichloropropane | ND | 1 | 0.5 | 0.5 | μg/L |
| 1,4-Dichlorobenzene | ND | 1 | 0.5 | 0.5 | μg/L |
| 1,4-Dioxane | ND | 1 | 50 | 50 | μg/L |
| 2,2-Dichloropropane | ND | 1 | 0.5 | 0.5 | μg/L |
| 2-Butanone (MEK) | ND | 1 | 20 | 20 | μg/L |
| 2-Chloroethyl-vinyl Ether | ND | 1 | 5 | 5 | μg/L |
| 2-Chlorotoluene | ND | 1 | 5 | 5 | μg/L |
| 2-Hexanone | ND | 1 | 20 | 20 | μg/L |
| 4-Chlorotoluene | ND | 1 | 5 | 5 | μg/L |
| 4-Methyl-2-Pentanone(MIBK) | ND | 1 | 20 | 20 | μg/L |
| Acetone | ND | 1 | 20 | 20 | μg/L |
| Acetonitrile | ND | 1 | 5 | 5 | μg/L |
| Acrolein | ND | 1 | 5 | 5 | μg/L |
| Acrylonitrile | ND | 1 | 5 | 5 | μg/L |
| Benzene | ND | 1 | 0.5 | 0.5 | μg/L |
| Benzyl Chloride | ND | 1 | 5 | 5 | μg/L |
| Bromobenzene | ND | 1 | 0.5 | 0.5 | μg/L |
| Bromochloromethane | ND | 1 | 0.5 | 0.5 | μg/L |
| Bromodichloromethane | ND | 1 | 0.5 | 0.5 | μg/Ľ |
| Bromoform | ND | 1 | 0.5 | 0.5 | μg/L |
| Bromomethane | ND | 1 | 0.5 | 0.5 | μg/L |
| Carbon Disulfide | ND | 1 | 0.5 | 0.5 | $\mu g/L$ |
| Carbon Tetrachloride | ND | 1 | 0.5 | 0.5 | μg/L |
| Chlorobenzene | ND | 1 | 0.5 | 0.5 | μg/L |
| Chloroethane | ND | 1 | 0.5 | 0.5 | μg/L |
| Chloroform | ND | 1 | 0.5 | 0.5 | μg/L |

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Quality Control - Method Blank Liquid

Validated by: MTU - 09/14/04

QC Batch ID: WMS1040913

Analysis Date: 9/13/2004

| Method Blank | | | | | |
|--------------------------------|----------------|----|-----|------|---------------|
| Method: EPA 8260B | | | | | |
| Parameter | Result | DF | PQL | PQLR | Units |
| Chloromethane | ND | 1 | 0.5 | 0.5 | μg/L |
| cis-1,2-Dichloroethene | ND | 1 | 0.5 | 0.5 | μg/L |
| cis-1,3-Dichloropropene | ND | 1 | 0.5 | 0.5 | μg/L |
| Cyclohexanone | ND | 1 | 20 | 20 | μg/L |
| Dibromochloromethane | ND | 1 | 0.5 | 0.5 | μg/L |
| Dibromomethane | ND | 1 | 0.5 | 0.5 | μg/L |
| Dichlorodifluoromethane | ND | 1 | 0.5 | 0.5 | μg/L |
| Diisopropyl Ether | ND | 1 | 5 | 5 | μg/L |
| Ethyl Benzene | ND | 1 | 0.5 | 0.5 | μg/L |
| Freon 113 | ND | 1 | 1 | 1 | μg/L |
| Hexachlorobutadiene | ND | 1 | 5 | 5 | μg/L |
| Iodomethane | ND | 1 | 1 | 1 | μg/L |
| Isopropanol | ND | 1 | 20 | 20 | μg/L |
| Isopropylbenzene | ND | 1 | 1 | 1 | μg/L |
| Methyl-t-butyl Ether | ND | 1 | 1 | 1 | μg/L |
| Methylene Chloride | ND | 1 | 5 | 5 | μg/L |
| n-Butylbenzene | ND | 1 | 5 | 5 | μg/L |
| n-Propylbenzene | ND | 1 | 5 | 5 | μg/L |
| Naphthalene | ND | 1 | 5 | 5 | μg/L |
| p-Isopropyltoluene | ND | 1 | 5 | 5 | μg/L |
| Pentachloroethane | ND | 1 | 0.5 | 0.5 | μg/L |
| sec-Butylbenzene | ND | 1 | 5 | 5 | μg/I |
| Styrene | ND | 1 | 0.5 | 0.5 | μg/L |
| tert-Amyl Methyl Ether | ND | 1 | 5 | 5 | μg/Ľ |
| tert-Butanol (TBA) | ND | 1 | 10 | 10 | μ g /I |
| tert-Butyl Ethyl Ether | ND | 1 | 5 | 5 | μg/L |
| tert-Butylbenzene | ND | 1 | 5 | 5 | μ g/L |
| Tetrachloroethene | ND | 1 | 0.5 | 0.5 | μg/L |
| Tetrahydrofuran | ND | 1 | 20 | 20 | μg/L |
| Toluene | ND | 1 | 0.5 | 0.5 | μg/L |
| trans-1,2-Dichloroethene | ND | 1 | 0.5 | 0.5 | μg/L |
| trans-1,3-Dichloropropene | ND | 1 | 0.5 | 0.5 | μg/L |
| trans-1,4-Dichloro-2-butene | ND | 1 | 1 | 1 | μg/L |
| Trichloroethene | ND | 1 | 0.5 | 0.5 | μg/L |
| Trichlorofluoromethane | ND | 1 | 0.5 | 0.5 | μg/I |
| Vinyl Acetate | ND | 1 | 5 | 5 | μg/L |
| Vinyl Chloride | ND | 1 | 0.5 | 0.5 | μg/L |
| Xylene, m+p | ND | 1 | 1 | 1 | μg/L |
| Xylene, o | ND | 1 | 0.5 | 0.5 | μ g/ I |
| Xylenes, Total | ND | 1 | 1 | 1 | μg/L |
| Surrogate for Blank % Recovery | Control Limits | | | | |
| 4-Bromofluorobenzene 87.9 | 64 - 125 | | | | |
| Dibromofluoromethane 99.6 | 23 - 172 | | | | |
| | | | | | |

Toluene-d8

103.0

70 - 134

23 - 172

70 - 134

102.0

95.4

Dibromofluoromethane

Toluene-d8

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Quality Control - Laboratory Control Spike / Duplicate Results Liquid

Reviewed by: MTU - 09/14/04

QC Batch ID: WMS1040913

Analysis Date: 9/13/2004

| LCS Method: | EPA 8260B | | | | | | C | onc. Units: | μg/L |
|----------------------|------------|-------------|-------------|---------|---------------|------------|-----|-------------|-----------------|
| Parameter | Blank | Spike Amt | SpikeResult | QC Type | Analysis Date | % Recovery | RPD | RPD Limits | Recovery Limits |
| 1,1-Dichloroethene | < 0.5 | 20.0 | 17.5 | LCS | 9/13/2004 | 88 | | | 60 - 132 |
| Benzene | <0.5 | 20.0 | 21.1 | LCS | 9/13/2004 | 110 | | | 77 - 154 |
| Chlorobenzene | < 0.5 | 20.0 | 20.3 | LCS | 9/13/2004 | 100 | | | 66 - 141 |
| Methyl-t-butyl Ether | <1 | 20.0 | 19.4 | LCS | 9/13/2004 | 97 | | | 58 - 127 |
| Toluene | < 0.5 | 20.0 | 18.9 | LCS | 9/13/2004 | 95 | | | 47 - 137 |
| Trichloroethene | <0.5 | 20.0 | 19.9 | LCS | 9/13/2004 | 100 | | | 57 - 159 |
| Surrogate | % Recovery | Control Lin | nits | | | | | | |
| 4-Bromofluorobenzene | 92.8 | 64 - 125 | 5 | | | | | | |
| Dibromofluoromethane | 100.0 | 23 - 172 | ! | | | | | | |
| Toluene-d8 | 96.4 | 70 - 134 | ļ | | | | | | |
| LCSD Method: | EPA 8260B | | | | | | c | one. Units: | μg/L |
| Parameter | Blank | Spike Amt | SpikeResult | QC Type | Analysis Date | % Recovery | RPD | RPD Limits | Recovery Limits |
| 1,1-Dichloroethene | < 0.5 | 20.0 | 17.8 | LCSD | 9/13/2004 | 89 | 1.7 | . 25 | 60 - 132 |
| Benzene | < 0.5 | 20.0 | 21.5 | LCSD | 9/13/2004 | 110 | 1.9 | 25 | 77 - 154 |
| Chlorobenzene | < 0.5 | 20.0 | 20.5 | LCSD | 9/13/2004 | 100 | 1.0 | 25 | 66 - 141 |
| Methyl-t-butyl Ether | <1 | 20.0 | 20.2 | LCSD | 9/13/2004 | 100 | 4.0 | 25 | 58 - 127 |
| Toluene | <0.5 | 20.0 | 19.2 | LCSD | 9/13/2004 | 96 | 1.6 | 25 | 47 - 137 |
| Trichloroethene | <0.5 | 20.0 | 20.5 | LCSD | 9/13/2004 | 100 | 3.0 | 25 | 57 - 159 |
| Surrogate | % Recovery | Control Lin | nits | | | | | | _ |
| | | | | | | | | | |

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Quality Control - Method Blank Liquid

Validated by: MTU - 09/14/04

QC Batch ID: WMS1040913

Analysis Date: 9/13/2004

| Method Blank | | | | | | |
|----------------------|------------|----------------|----|-----|------|-------|
| Method: GC-MS | | | | | | |
| Parameter | | Result | DF | PQL | PQLR | Units |
| TPH as Gasoline | | ND | 1 | 25 | 25 | μg/L |
| Surrogate for Blank | % Recovery | Control Limits | | | | |
| 4-Bromofluorobenzene | 95.6 | 64 - 125 | | | | |
| Dibromofluoromethane | 98.6 | 23 - 172 | | | | |
| Toluene-d8 | 105.0 | 70 - 134 | | | | |

Quality Control - Laboratory Control Spike / Duplicate Results Liquid

Reviewed by: MTU - 09/14/04

QC Batch ID: WMS1040913

Analysis Date: 9/13/2004

| LCS Method: | GC-MS | | | | | | C | onc. Units: | μg/L |
|----------------------|------------------|-------------|-------------|---------|---------------|------------|-----|--------------|-----------------|
| Parameter | Blank | Spike Amt | SpikeResult | QC Type | Analysis Date | % Recovery | RPD | RPD Limits | Recovery Limits |
| TPH as Gasoline | <25 | 125 | 115 | LCS | 9/13/2004 | 92 | | | 65 - 135 |
| Surrogate | % Recovery | Control Lin | ıits | | | | | LIT / 1 LIV/ | |
| 4-Bromofluorobenzene | 99.8 | 64 - 125 | ; | | | | | | |
| Dibromofluoromethane | 96.9 | 23 - 172 | ļ | | | | | | |
| Toluene-d8 | 102.0 | 70 - 134 | Ļ | | | | | | |
| LCSD Method: | CC MC | | | | | | | Conc. Units: | ug/I |
| Parameter | GC-IVIS Blank | Spike Amt | SnikeResult | OC Type | Analysis Date | % Recovery | RPD | RPD Limits | |
| TPH as Gasoline | <25 | 125 | 119 | LCSD | 9/13/2004 | 95 | 3.8 | 25 | 65 - 135 |
| Surrogate | % Recovery | Control Lin | nits | | | | | | |
| 4-Bromofluorobenzene | 100.0 | 64 - 125 | ; | | | | | | |
| Dibromofluoromethane | 96.8 | 23 - 172 | | | | | | | |
| Toluene-d8 | 101.0 | 70 - 134 | i | | | | | | |

| Project Name: <u>ABE</u> Project Location: <u>17715 Mission BLVD.</u> | | | | | Project No: | | 3-103.07 | Date | e:a | 19/04 mile | ne | |
|---|--------|--|---|-----------|---------------------------|--------------|---------------------------|------|-------|------------------|---|--|
| Sample Date Sampling Matrix Nº of Containers | | | | | | Turna | Turnaround Time | | | | | |
| Reference Distriction Production | | a de población Alexandria Alexandria Alexandria | man 1973 direction Albert State (1980) Official and Albert (1980) | | 8015/8020 TPHG BTEX | 8015 TPHD | Fuel Oxygenate 8260 | | | | seement fra 1 Uringsberg 1 Uringsberg 1 Uringsberg | |
| 1w -1 | 9/9/04 | | water | 4 | | | × | 403 | 25-00 | 24-hour Other | Normal | |
| MW-2 | | | | × | | | × | | 602 | 24-hour Other | Normal | |
| MW-3 | | | 7 | 义 | | | X | | 603 | 24-hour Other | Normal | |
| | | | *** | | | | | |) | 24-hour Other | Normal | |
| · | | - | | | | | | | | 24-hour Other | Normal | |
| | | | | | | | | · | | 24-hour Other | Normal | |
| | | | | | | - | | | | 24-hour Other | Normal | |
| emarks: | | ٠ | | | <u>,</u> | • | | | | | | |
| linguishe | ed by | j inghu | ····· | Date Date | | Time ; 30 | Received by | P | | Date / 99/04 | Tir. 1130 | |

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Appendix C FIELD NOTES

| | GR | OUNDWA: | TER MONIT | ORING | DATA | FORM | | | | |
|---|--------------------------|---------|-----------|---|------------------|-------|---------------------------------------|---------------------------------|--|--|
| | | | | Date: 4/94 Well Nº: MW1 Weather: 4/24 | | | | | | |
| Project Location: PURGE WATER VOLUME CALCULATION | ATER VOLUME Depth (ft) W | | | Multipli Casing Dia 2" 4" 0.16 0.64 | | | Casing Volume (gal) | Purged Volume (gal) 4.8 2 2.5g | | |
| Purge Method: | BAil | EK | Meası | uring Refe | rence: | TO | <u>C</u> | | | |
| Time | | | | | | | | | | |
| Volume Purged (gal) | | 0 |) 2 | | + | | | | | |
| Temperature (° F) | | 73. | 1 72. | | -7 | 72.5 | | | | |
| рН | | 5.6 | 5.4 | | -> | ζ, ˙3 | | | | |
| Specific Conductivity (| umhos/cm) | 4900 | 0 4700 | 2 - | -> | 4800 | > | | | |
| Turbidity/Color | | gri | e7 = | > | ~> | -> | | | | |
| Odor | | Heo | 104 | > | _> | > | | 1 | | |
| Comments: —— | HC od | o-/ | | | | | · · · · · · · · · · · · · · · · · · · | | | |

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| | GR | OUNDWA | TER MO | NITOF | RING | DATA | FORM | | | | |
|-------------------------|--------------------------|-----------------------|-------------|-------------|--------------|-------------|--------|------------------------|------------------------|--|--|
| Project No: _03-10 | 03.03. | | | D | ate: | | 9/4/04 | | | | |
| Project Name: _A | \BE | | • | W | Well Nº: MW2 | | | | | | |
| Field Personnel: | Field Personnel: Mile | | | W | Weather: | | Surry | | | | |
| Project Location: | | | | | | | | · | | | |
| PURGE WATER VOLUME | Total Well Depth (ft) | Depth to Water (ft | Water Cold | umn | Ca | Multiplie | | Casing Volume (gal) | Purged Volume (gal) | | |
| CALCULATION | 33.75' | 24.55 | 9.2 | | 2" 4" | | 6" | 1.48 | 4.41 | | |
| | | | | | 0.16 | .16 0.64 1. | | 1.70 | 245 | | |
| Purge Method: | BAILE | R | Мє | easurin | g Refe | rence: | Toe | | | | |
| Time | | | | | | | | | | | |
| Volume Purged (gal) | | 0 | | 1.5 | 3 | ο, ε | 7.5 | | | | |
| Temperature (° F) | | 72.1 | 70 | 2.2 | _ | -5 | 71.2 | | | | |
| рН | | 5 % | | .9 | | 8 | 5.75 | | | | |
| Specific Conductivity (| umhos/cm) | 4900 | · | 500 | _ | -> | 4900 | | | | |
| Turbidity/Color | | gre | | | | -2 | -> | | | | |
| Odor | | HCo | Jer - | 7 | T - | 7 | -> | T_{-} | | | |
| | | | | | | <u></u> - | | | • | | |
| Comments: —— | Hc ol | ļo~ | | | | | | | | | |

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SIERRA ENVIRONMENTAL, INC. Environmental Consultants

3-9-04

GROUNDWATER MONITORING DATA FORM

| Project No: _03-10 | 3.03. | | | Date: | | | | | | | |
|--------------------------|--|--------|----------------------|-------------------|------------------------|-----------------|------------------------|------------------------|--|--|--|
| Project Name: <u>A</u> | BE | | | Well Nº:MW3 | | | | | | | |
| Field Personnel: | m:4 | e i Ma | 2700 | Weather: | | | | | | | |
| Project Location: | | | | | | | | | | | |
| PURGE WATER VOLUME | Total Well Depth to Depth (ft) Water (ft | | Water Column (ft) | Ce | Multiplie sing Dian | i | Casing Volume (gal) | Purged Volume (gal) | | | |
| CALCULATION | 33.75' | 2020 | 13.6 | 2" | 4" | 6" | 2.2 | 6.6 | | | |
| | | · | | 0.16 | 0.64 | 1.44 | | | | | |
| Purge Method: | 'Bai | ler | Measu | ring Refe | rence: | \subseteq | юc | | | | |
| Time | | | | | | | | | | | |
| Volume Purged (gal) | | 0 | 2.2 | 4 | .4 | 6.6 | | | | | |
| Temperature (° F) | | 71. | 471.2 | 7 | 5.1 | 70.5 | | | | | |
| рН | | 5.8 | 0 5.9 | 7 6 | .21 | 6.18 | | | | | |
| Specific Conductivity (u | ımhos/cm) | 530 | × 450 | 5 5 | 400 | 5300 | | | | | |
| Turbidity/Color | | Lichte | grav | \Rightarrow $-$ | -> | > | | | | | |
| Odor | | Ye | 5 - | > - | \rightarrow | | | | | | |
| Comments: | Shean | and 1 | HC ode | or a | vere | obser | ved/pet | ected | | | |

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