



THIRD ANNUAL PROGRESS REPORT



Former Building 728 Facility ID #9-025049 Hunter Army Airfield, Georgia

Prepared for



U.S. ARMY CORPS OF ENGINEERS SAVANNAH DISTRICT

Contract No. DACA21-02-D-0004 Delivery Order 0003





THIRD ANNUAL PILOT STUDY PROGRESS REPORT FOR FORMER BUILDING 728 FACILITY ID #9-025049 HUNTER ARMY AIRFIELD, GEORGIA

Prepared for U.S. Army Corps of Engineers Savannah District Under Contract Number DACA21-02-D-0004 Delivery Order 0003

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FINAL

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LIST OF ACRONYMS

ACL	alternate concentration limit
AMSL	above mean sea level
BTEX	benzene, toluene, ethylbenzene, and total xylenes
CAP	Corrective Action Plan
GA EPD	Georgia Environmental Protection Division
GUST	Georgia Underground Storage Tank
IWQS	In-Stream Water Quality Standard
MCL	maximum contaminant level
STL	soil threshold level
TPH	total petroleum hydrocarbons
UIC	Underground Injection Control

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Third Annual Progress Report Former Building 728, Facility ID #9-025049

PROGRESS REPORT

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REGISTERED PROFESSIONAL ENGINEER OR PROFESSIONAL GEOLOGIST CERTIFICATION

I hereby certify that I have directed and supervised the fieldwork and preparation of this plan, in accordance with State Rules and Regulations. As a registered professional geologist and/or professional engineer, I certify that I am a qualified groundwater professional, as defined by the Georgia State Board of Professional Geologists. All of the information and laboratory data in this plan and in all of the attachments are true, accurate, complete, and in accordance with applicable State Rules and Regulations.

Name: Patri	cia A. Stoll
Signature:	Pole alto
Date:	8/16/02

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1.0 INTRODUCTION

The Former Building 728 site is located at the southeast corner of Douglas Street and Duncan Drive within the confines of Hunter Army Airfield, as illustrated in Figure 1. The site is located within an average or higher groundwater pollution susceptibility area, is fewer than 500 feet from a withdrawal point, and is fewer than 500 feet from a surface water body. As defined in Georgia Underground Storage Tank (GUST) Management Rule 391-5-15.09, the appropriate soil threshold levels (STLs) are those presented in Table A, Column 1 of GUST Rules 291-5-15 because a withdrawal point is located fewer than 500 feet from the site and Table B, Column 1 of GUST Rules 391-5-15 because a surface water body is located fewer than 500 feet from the site. Thus, the Corrective Action Plan (CAP)–Part B Report (Metcalf & Eddy 1997) used the most conservative value for each compound as the applicable STL. The closest surface water body is a man-made, open-channel drainage ditch that is fed by an underground storm drain; therefore, the Georgia In-Stream Water Quality Standards (IWQSs) were used as screening criteria for groundwater.

The horizontal extent of the soil and groundwater contamination was determined during the CAP–Part B investigation. As part of the CAP–Part B Report, a corrective action was proposed to address the free product, soil contamination, and groundwater contamination. The corrective action consisted of a combination of free product removal, air sparging, and soil vapor extraction. The CAP–Part B Report was approved by the Georgia Environmental Protection Division (GA EPD) in correspondence dated September 4, 1998 (Coughlan 1998). Quarterly monitoring was initiated at the site in May 1998.

During a site visit by GA EPD on September 15, 1998, Fort Stewart proposed implementation of a pilot study consisting of oxygen injection across the entire groundwater plume to enhance the microbial biodegradation. During the oxygen injection, free product removal would continue in the product recovery wells. The CAP–Part B Addendum #1 and First Annual Pilot Study Progress Report was submitted to GA EPD in August 2000 (SAIC 2000). The report documented the changes to the corrective action proposed in the CAP–Part B Report and summarized the results of the remediation pilot study associated with the corrective action at the Northern Fuel Battery portion of the Former Building 728 site.

During the first year of the pilot study at the Northern Fuel Battery portion of the Former Building 728 site, the benzene concentrations and the plume area decreased. As a result, the oxygen injection and enhanced product recovery systems were retained as the corrective action at the site. Since the submittal of the CAP–Part B Addendum #1 and First Annual Pilot Study Progress Report in August 2000, site sampling has continued on a bimonthly basis. The Second Annual Progress Report (SAIC 2001) documented the results of the corrective action from July 2000 to June 2001. This Third Annual Progress Report documents the results of the corrective action from August 2001 to June 2002.

2.0 PRE-PILOT STUDY ACTIVITIES

The pre-pilot study activities in May 1999 consisted of installing five observation points, 24 injection points, and 24 product delineation points (Figure 2) and conducting a vadose zone pilot test and baseline sampling for soil and groundwater conditions. The specifics regarding these activities were summarized in the CAP–Part B Addendum #1 and First Annual Pilot Study Progress Report (SAIC 2000) submitted to GA EPD in August 2000. The well construction details are summarized in Table 1.

During the baseline soil sampling in May 1999, one soil sample was collected from each of the five observation points and analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX) and total

petroleum hydrocarbons (TPH), and one soil sample was collected from each of the 24 product delineation points; however, only ten samples were analyzed for BTEX and TPH, while eight samples were analyzed for TPH only. The samples from the product delineation points that were submitted to the analytical laboratory were from the borings in the vicinity of MW8 and the free product plume identified during the CAP–Part B investigation. The baseline analytical results for soil are presented in Table 2.

During the baseline groundwater sampling in May 1999, 15 locations were sampled for BTEX. The original monitoring locations for determining the effectiveness of the pilot study were MW6, MW11, MW60, MW61, MW63, MW64, P1, P2, P3, P4, P5, D1, D3, D4, and D21. The baseline groundwater sampling preformed in May 1999 indicated that the area of groundwater contamination covered approximately 22,700 ft². Benzene was detected in all 15 samples at concentrations ranging from 2.1J to 2,600 μ g/L. Thirteen of the concentrations exceeded the IWQS of 71.28 μ g/L and the benzene alternate concentration limit (ACL) of 78 μ g/L. The concentrations of toluene, ethylbenzene, and total xylenes did not exceed the IWQS of 200,000 μ g/L; the IWQS of 28,718 μ g/L; or the maximum contaminant level (MCL) of 10,000 μ g/L, respectively. The baseline analytical results for groundwater are presented in Table 3 and Figure 3.

In May 1999, the groundwater flow direction was toward the northwest, and the average groundwater gradient was approximately 0.0105 foot/foot. Free product exceeding 1/8 inch (i.e., 0.01 foot) was observed in seven product delineation points (D7, D8, D10, D11, D12, D16, and D17). The area of free product was located north of MW59, extended toward MW8 and MW62, and covered an area of approximately 1,850 ft².

3.0 REMEDIAL ACTIVITIES

3.1 INITIAL FREE PRODUCT REMOVAL

From May 1999 through February 2000, the initial free product removal activities consisted of Ferret[™] product recovery systems in wells MW59, MW62, MW8A, PR-1, PR-2, PR-3, PR-4, and PR-5. The details regarding the free product removal were described in the CAP–Part B Addendum #1 and First Annual Pilot Study Progress Report (SAIC 2000). The use of the Ferret[™] product recovery systems was continued through August 2000, when it was determined that there was no longer any recoverable free product in recovery wells MW59, MW62, MW8A, PR-1, PR-2, PR-3, PR-4, and PR-5.

3.2 ENHANCED PRODUCT RECOVERY SYSTEM

In February 2000, an enhanced product recovery system that consisted of vacuum extraction in the product recovery wells (MW8A, MW59, PR-1 PR-2, PR-3, PR-4, and PR-5) and air injection into the injection wells (A-1 through A-6 and B-1 through B-6) was implemented at the site. The six injection wells on the A manifold are generally located through the central axis of the delineated free product area. The injection wells on the B manifold are generally located on the hydraulically upgradient side of the delineated free product area. The extraction and air injection wells are configured in a manner that induces a pressure gradient in the subsurface toward the existing recovery wells to enhance the migration of the product toward those wells. The details regarding the enhanced product recovery system were described in the CAP–Part B Addendum #1 and First Annual Pilot Study Progress Report (SAIC 2000).

Due to the lack of recoverable free product in the existing product recovery wells and the fact that the area of product appeared to be located in the middle of these wells, two additional product recovery wells (PR-6 and PR-7) were installed in April 2001 to assist in recovering product. However, after the installation and development, no measurable free product was identified, and product recovery systems have not been installed in these wells. The vacuum extraction and air injection continue to assist in reducing the soil contaminant levels.

3.3 OXYGEN INJECTION SYSTEM

The groundwater treatment system consists of an oxygen injection system that injects 98-percent-pure oxygen into the groundwater via multiple injection points at low flow rates. The injection of pure oxygen into groundwater using oxygen generators is a patented remediation process developed by Matrix Environmental, Inc. The remediation system consists of an AirSep AS80 pressure-swing adsorption oxygen generator that produces oxygen at a rate of 80 standard cubic feet per hour. The oxygen is stored in a 120-gallon receiver tank and pulse-sparged to up to 12 injection points at approximately 30 standard cubic feet per minute per point. The details regarding the oxygen injection system were described in the CAP–Part B Addendum #1 and First Annual Pilot Study Progress Report (SAIC 2000).

3.4 SYSTEM MONITORING AND SAMPLING

The oxygen injection system described above was operational on May 19, 1999, with oxygen being injected into two rows of injectors. One row was located downgradient of the free product plume and consisted of injectors J9 through J13. The other row was located upgradient of the free product plume and consisted of injectors J14 through J20. The injectors operating at any one time have changed periodically as plume conditions have changed. Three additional injector locations were installed in December 2000. Prior to injecting in these new locations, Science Applications International Corporation requested that the original Underground Injection Control (UIC) Permit #104 be amended to include the new injector locations. The oxygen was injected in accordance with the revised UIC Permit #104 for the Former Building 728 site. A copy of the UIC permit is provided in Appendix VII.

The results of the first year of monitoring (i.e., June 1999 through May 2000) are briefly summarized in the following sections, with additional details provided in the CAP–Part B Addendum #1 and First Annual Pilot Study Progress Report (SAIC 2000). The results of the second year of sampling (i.e., July 2000 through May 2001) are also summarized below, with additional details provided in the Second Annual Pilot Study Progress Report (SAIC 2001). A more detailed discussion of the results of the third year of monitoring (i.e., August 2001 through June 2002) follows the discussion of the second-year results.

3.4.1 First Sampling Event – June 1999

The oxygen injection system had been in operation for 1 month when the first sampling event was conducted with oxygen being injected into two rows of injectors (J9 through J13 and J14 through J20). The monitoring locations to determine the effectiveness of the pilot study were MW6, MW11, MW60, MW61, MW63, MW64, P1, P2, P3, P4, P5, D1, D3, D4, and D21.

The groundwater sampling performed in June 1999 indicated that the area of groundwater contamination covered approximately 18,600 ft². Benzene was detected in all 15 samples at concentrations ranging 3J μ g/L to 3,370 μ g/L. Ten of the concentrations exceeded the IWQS of 71.28 μ g/L and the benzene ACL of 78 μ g/L. The concentrations of toluene, ethylbenzene, and total xylenes did not exceed the IWQS of

200,000 μ g/L; the IWQS of 28,718 μ g/L; or the MCL of 10,000 μ g/L, respectively. The analytical results for groundwater are presented in Table 3.

In June 1999, the groundwater flow direction was toward the northwest, the groundwater gradient was approximately 0.0103 foot/foot, and the average groundwater elevation was 12.56 feet above mean sea level (AMSL). A list of the wells and corresponding water-level and product depths is presented in Table 4. Free product exceeding 1/8 inch (i.e., >0.01 foot) was observed in five product delineation points (i.e., D6, D7, D10, D11, and D16). The area of free product was located north of MW59, extended toward MW8 and MW62, and covered an area of approximately 1,800 ft². Free product recovery in June 1999 consisted of Ferret[™] product recovery systems in MW8A, MW59, and PR-2.

3.4.2 Second Sampling Event – July 1999

The oxygen injection system had been in operation for 2 months when the second sampling event was conducted with oxygen being injected into two rows of injectors (J9 through J13 and J14 through J20). The monitoring locations to determine the effectiveness of the pilot study were MW6, MW11, MW60, MW61, MW63, MW64, P1, P2, P3, P4, P5, D1, D3, D4, and D21.

The groundwater sampling performed in July 1999 indicated that the area of groundwater contamination covered approximately 17,050 ft². Benzene was detected in 13 of 15 samples at concentrations ranging 0.82J μ g/L to 3,430 μ g/L. Nine of the concentrations exceeded the IWQS of 71.28 μ g/L and the benzene ACL of 78 μ g/L. The concentrations of toluene, ethylbenzene, and total xylenes did not exceed the IWQS of 200,000 μ g/L; the IWQS of 28,718 μ g/L; or the MCL of 10,000 μ g/L, respectively. The analytical results for groundwater are presented in Table 3.

In July 1999, the groundwater flow direction was toward the northwest, the groundwater gradient was approximately 0.0142 foot/foot, and the average groundwater elevation was 14.19 feet AMSL. Prior to the July 1999 sampling event, a 100-year rain event occurred during the first week of July. A list of the wells and corresponding water-level and product depths is presented in Table 4. Free product exceeding 1/8 inch (i.e., >0.01 foot) was observed in seven product delineation points (i.e., D6, D8, D10, D11, D15, D16, and D17). The area of free product was located near MW59, extended toward MW8 and MW62, and was separated into two areas of approximately 2,375 ft² and 500 ft². Free product recovery in July 1999 consisted of Ferret[™] product recovery systems in MW8A, MW59, and PR-2.

3.4.3 Third Sampling Event – August 1999

The oxygen injection system had been in operation for 3 months when the third sampling event was conducted with oxygen being injected into two rows of injectors (J9 through J13 and J14 through J20). The monitoring locations to determine the effectiveness of the pilot study were MW6, MW11, MW60, MW61, MW63, MW64, P1, P2, P3, P4, P5, D1, D3, D4, and D21.

The groundwater sampling performed in August 1999 indicated that the area of groundwater contamination covered approximately 18,000 ft². Benzene was detected in 12 of 15 samples at concentrations ranging 13.7 μ g/L to 3,460 μ g/L. Eight of the concentrations exceeded the IWQS of 71.28 μ g/L and the benzene ACL of 78 μ g/L. The concentrations of toluene, ethylbenzene, and total xylenes did not exceed the IWQS of 200,000 μ g/L; the IWQS of 28,718 μ g/L; or the MCL of 10,000 μ g/L, respectively. The analytical results for groundwater are presented in Table 3.

In August 1999, the groundwater flow direction was toward the northwest, the groundwater gradient was approximately 0.0111 foot/foot, and the average groundwater elevation was 12.97 feet AMSL. A list of the

wells and corresponding water-level and product depths is presented in Table 4. Free product exceeding 1/8 inch (i.e., >0.01 foot) was observed in five product delineation points (i.e., D6, D9, D10, D11, and D16). The area of free product was located near MW59, extended toward MW8, and covered an area of approximately 1,950 ft². Free product recovery in August 1999 consisted of FerretTM product recovery systems in MW8A, MW59, and PR-2.

3.4.4 Fourth Sampling Event – September 1999

The oxygen injection system had been in operation for 4 months when the fourth sampling event was conducted. The locations of the oxygen injectors in operation were modified after the August 1999 sampling event to three rows of injectors (J2 through J4, J5 through J8, and J9 through J13). The monitoring locations to determine the effectiveness of the pilot study were MW6, MW11, MW60, MW61, MW63, MW64, P1, P2, P3, P4, P5, D1, D3, D4, and D21.

The groundwater sampling performed in September 1999 indicated that the area of groundwater contamination covered approximately 14,875 ft². Benzene was detected in 12 of 15 samples at concentrations ranging 2.4 μ g/L to 3,710 μ g/L. Seven of the concentrations exceeded the IWQS of 71.28 μ g/L and the benzene ACL of 78 μ g/L. The concentrations of toluene, ethylbenzene, and total xylenes did not exceed the IWQS of 200,000 μ g/L; the IWQS of 28,718 μ g/L; or the MCL of 10,000 μ g/L, respectively. The analytical results for groundwater are presented in Table 3.

In September 1999, the groundwater flow direction was toward the northwest, the groundwater gradient was approximately 0.0103 foot/foot, and the average groundwater elevation was 13.93 feet AMSL. A list of the wells and corresponding water-level and product depths is presented in Table 4. Free product exceeding 1/8 inch (i.e., >0.01 foot) was observed in six product delineation points (i.e., D6, D7, D10, D11, D16, and D17). The area of free product was located near MW59, extended toward MW8, and covered an area of approximately 2,225 ft². Free product recovery in September 1999 consisted of FerretTM product recovery systems in MW8A, MW59, and PR-2.

3.4.5 Fifth Sampling Event – October 1999

The oxygen injection system had been in operation for 5 months when the fifth sampling event was conducted. The locations of the oxygen injectors in operation were modified to three rows of injectors (J2 through J4, J5 through J8, and J9 through J13) in August 1999. The monitoring locations to determine the effectiveness of the pilot study were MW6, MW11, MW60, MW61, MW63, MW64, P1, P2, P3, P4, P5, D1, D3, D4, and D21.

The groundwater sampling that was performed in October 1999 indicated that the area of groundwater contamination covered approximately 15,475 ft². Benzene was detected in 14 of 15 samples at concentrations ranging 0.78J μ g/L to 3,760 μ g/L. Six of the concentrations exceeded the IWQS of 71.28 μ g/L and the benzene ACL of 78 μ g/L. The concentrations of toluene, ethylbenzene, and total xylenes did not exceed the IWQS of 200,000 μ g/L; the IWQS of 28,718 μ g/L; or the MCL of 10,000 μ g/L, respectively. The analytical results for groundwater are presented in Table 3.

In October 1999, the groundwater flow direction was toward the northwest, the groundwater gradient was approximately 0.0125 foot/foot, and the average groundwater elevation was 13.27 feet AMSL. A list of the wells and corresponding water-level and product depths is presented in Table 4. Free product exceeding 1/8 inch (i.e., >0.01 foot) was observed in eight product delineation points (i.e., D6, D7, D8, D10, D11, D15, D16, and D17). The area of free product was located near MW59, extended toward MW8 and MW62, and covered an area of approximately 2,850 ft². Free product recovery in October 1999 consisted of FerretTM

product recovery systems in MW8A, MW59, and PR-2. Prior to the fifth sampling event, three additional free product recovery wells (PR-3, PR-4, and PR-5) were installed at the site in October 1999 and equipped with FerretTM product recovery systems.

3.4.6 Sixth Sampling Event – November/December 1999

The oxygen injection system had been in operation for 7 months when the sixth sampling event was conducted. The locations of the oxygen injectors in operation were changed back to the original two rows of injectors (J9 through J13 and J14 through J20) in October 1999. The monitoring locations to determine the effectiveness of the pilot study were MW6, MW11, MW60, MW61, MW63, MW64, P1, P2, P3, P4, P5, D1, D3, D4, and D21.

The groundwater sampling performed in November/December 1999 indicated that the area of groundwater contamination covered approximately 8,575 ft². Benzene was detected in 15 of 15 samples at concentrations ranging 1J μ g/L to 3,700 μ g/L. Seven of the concentrations exceeded the IWQS of 71.28 μ g/L and the benzene ACL of 78 μ g/L. The concentrations of toluene, ethylbenzene, and total xylenes did not exceed the IWQS of 200,000 μ g/L; the IWQS of 28,718 μ g/L; or the MCL of 10,000 μ g/L, respectively. The analytical results for groundwater are presented in Table 3.

In December 1999, the groundwater flow direction was toward the northwest, the groundwater gradient was approximately 0.0106 foot/foot, and the average groundwater elevation was 12.18 feet AMSL. A list of the wells and corresponding water-level and product depths is presented in Table 4. Free product exceeding 1/8 inch (i.e., >0.01 foot) was observed in seven product delineation points (i.e., D6, D9, D10, D11, D15, D16, and D17). The area of free product had separated into two areas. The largest area was located near MW59, extended toward MW8, and covered an area of approximately 1,500 ft². The smaller area covered an area of approximately 340 ft². Free product recovery in December 1999 consisted of FerretTM product recovery systems in MW8A, MW59, PR-2, PR-3, PR-4, and PR-5.

3.4.7 Seventh Sampling Event – January 2000

The oxygen injection system had been in operation for 8 months when the seventh sampling event was conducted. The locations of the oxygen injectors in operation were changed back to the original two rows of injectors (J9 through J13 and J14 through J20) in October 1999. The monitoring locations to determine the effectiveness of the pilot study were MW6, MW11, MW60, MW61, MW63, MW64, P1, P2, P3, P4, P5, D1, D3, D4, and D21.

The groundwater sampling that was performed in January 2000 indicated that the area of groundwater contamination covered approximately 10,650 ft². Benzene was detected in 15 of 15 samples at concentrations ranging 0.2J μ g/L to 2,210J μ g/L. Seven of the concentrations exceeded the IWQS of 71.28 μ g/L and the benzene ACL of 78 μ g/L. The concentrations of toluene, ethylbenzene, and total xylenes did not exceed the IWQS of 200,000 μ g/L; the IWQS of 28,718 μ g/L; or the MCL of 10,000 μ g/L, respectively. The analytical results for groundwater are presented in Table 3.

In January 2000, the groundwater flow direction was toward the northwest, the groundwater gradient was approximately 0.0111 foot/foot, and the average groundwater elevation was 12.38 feet AMSL. A list of the wells and corresponding water-level and product depths is presented in Table 4. Free product exceeding 1/8 inch (i.e., >0.01 foot) was observed in six product delineation points (i.e., D6, D8, D10, D11, D16, and D17). The area of free product has separated into two areas. The largest area was located near MW59, extended toward MW8, and covered an area of approximately 1,770 ft². The second smaller area covered

an area of approximately 100 ft² and was located near MW62. Free product recovery in January 2000 consisted of FerretTM product recovery systems in MW8A, MW59, PR-2, PR-3, PR-4, and PR-5.

In February 2000, an enhanced product recovery system consisting of air injection with vacuum extraction to induce a pressure gradient in the subsurface to enhance the migration of the product toward the recovery wells was brought on-line at the site.

3.4.8 Eighth Sampling Event – March 2000

The oxygen injection system had been in operation for 10 months when the eighth sampling event was conducted. The locations of the oxygen injectors in operation were modified in January 2000. The row of oxygen injectors (J9 through J13) downgradient of the free product remained in operation. The oxygen injection locations (J2 through J4, J7, and J18 through J20) were spread throughout the long, thin plume running parallel to the storm drain. Monitoring locations MW64, P5, and D21 were dropped from the monitoring program in lieu of D6, D10, and D17. The monitoring locations to determine the effectiveness of the pilot study were MW6, MW11, MW60, MW61, MW63, P1, P2, P3, P4, D1, D3, D4, D6, D10, and D17.

The groundwater sampling performed in March 2000 indicated that the area of groundwater contamination had separated into two plumes. One was long and thin and ran parallel to the storm drain, while the other was in the vicinity of the free product. The areas of contamination were approximately 6,450 ft² and 3,000 ft². Benzene was detected in 12 of 15 samples at concentrations ranging 2.4 μ g/L to 1,820 μ g/L. Nine of the concentrations exceeded the IWQS of 71.28 μ g/L and the benzene ACL of 78 μ g/L. The concentrations of toluene, ethylbenzene, and total xylenes did not exceed the IWQS of 200,000 μ g/L; the IWQS of 28,718 μ g/L; or the MCL of 10,000 μ g/L, respectively. The analytical results for groundwater are presented in Table 3.

In March 2000, the groundwater flow direction was toward the north and northwest, the groundwater gradient was approximately 0.0227 foot/foot, and the average groundwater elevation was 13.05 feet AMSL. A list of the wells and corresponding water-level and product depths is presented in Table 4. Free product exceeding 1/8 inch (i.e., >0.01 foot) was observed in four product delineation points (i.e., D6, D10, D11, and D24). The area of free product had separated into two areas. The largest area was located near MW59, extended toward MW8, and covered an area of approximately 580 ft². The second, smaller area covered an area of approximately 213 ft² and was located near D24. Free product recovery in March 2000 consisted of Ferret[™] product recovery systems in MW8A, MW59, PR-2, PR-3, PR-4, and PR-5 in conjunction with the enhanced product removal system implemented in February 2000.

3.4.9 Ninth Sampling Event – May 2000

The oxygen injection system had been in operation for 12 months (i.e., 1 year) when the ninth sampling event was conducted. The locations of the oxygen injectors in operation (J2 through J4, J7, J9 through J13, and J18 through J20) had last been modified in January 2000. The monitoring locations to determine the effectiveness of the pilot study were MW6, MW11, MW60, MW61, MW63, P1, P2, P3, P4, D1, D3, D4, D6, D10, and D17.

The groundwater sampling performed in May 2000 indicated that the area of groundwater contamination continued to be separated into two plumes. One was long and thin and ran parallel to the storm drain, while the other was in the vicinity of the free product. The areas of contamination were approximately 6,550 ft² and 2,665 ft². Benzene was detected in 13 of 15 samples at concentrations ranging 2.3 μ g/L to 2,010J μ g/L. Eight of the concentrations exceeded the IWQS of 71.28 μ g/L and the benzene ACL of 78 μ g/L. The concentrations of toluene, ethylbenzene, and total xylenes did not exceed the IWQS of 200,000 μ g/L;

the IWQS of 28,718 μ g/L; or the MCL of 10,000 μ g/L, respectively. The analytical results for groundwater are presented in Table 3.

In May 2000, the groundwater flow direction was toward the northwest, the groundwater gradient was approximately 0.0095 foot/foot, and the average groundwater elevation was 12.54 feet AMSL. A list of the wells and corresponding water-level and product depths is presented in Table 4. Free product exceeding 1/8 inch (i.e., >0.01 foot) was observed in two product delineation points (i.e., D10 and D18). The area of free product had separated into two areas. One area was located near MW59, extended toward MW8, and covered an area of approximately 188 ft². The second area covered an area of approximately 271 ft² and was located near D18. Free product recovery in May 2000 consisted of Ferret[™] product recovery systems in MW8A, MW59, PR-2, PR-3, PR-4, and PR-5 in conjunction with the enhanced product removal system implemented in February 2000.

3.4.10 Tenth Sampling Event – July 2000

The oxygen injection system had been in operation for 14 months (i.e., 1.2 years) when the tenth sampling event was conducted. The locations of the oxygen injectors in operation (J2 through J4, J7, J9 through J13, and J18 through J20) had last been modified in January 2000. The monitoring locations to determine the effectiveness of the pilot study were MW6, MW11, MW60, MW61, MW63, P1, P2, P3, P4, D1, D3, D4, D6, D10, and D17.

The groundwater sampling performed in July 2000 indicated that the area of groundwater contamination continued to be separated into two plumes. One was long and thin and ran parallel to the storm drain, while the other was in the vicinity of the free product. The areas of contamination were approximately 5,250 ft² and 2,550 ft². Benzene was detected in 14 of 15 samples at concentrations ranging 1.6 μ g/L to 912 μ g/L. Six of the concentrations exceeded the IWQS of 71.28 μ g/L and the benzene ACL of 78 μ g/L. The concentrations of toluene, ethylbenzene, and total xylenes did not exceed the IWQS of 200,000 μ g/L; the IWQS of 28,718 μ g/L; or the MCL of 10,000 μ g/L, respectively. The analytical results for groundwater are presented in Table 3.

In July 2000, the groundwater flow direction was toward the northwest, the groundwater gradient was approximately 0.013 foot/foot, and the average groundwater elevation was 12.03 feet AMSL. A list of the wells and corresponding water-level and product depths is presented in Table 4. Free product exceeding 1/8 inch (i.e., >0.01 foot) was observed in two product delineation points (i.e., D10 and D11). There was only one area of free product. The area was located near PR-2, extended toward PR-4, and covered an area of approximately 679 ft². On July 23, 2000, the Ferret[™] product recovery systems were removed from MW8A, MW59, PR-2, PR-3, PR-4, and PR-5, and the enhanced product removal system was shut down. On July 25, 2000, wells PR-2 and MW59 contained 0.01 foot and 0.08 foot, respectively, of free product. None of the other product recovery wells contained any measurable free product. Well MW59 was the only well to have a Ferret[™] product recovery system reinstalled. The enhanced product removal system was operational again on July 25, 2000. Neither the oxygen injection locations nor the monitoring locations were changed for the next sampling event in September 2000.

3.4.11 Eleventh Sampling Event – September 2000

The oxygen injection system had been in operation for 16 months (i.e., 1.3 years) when the eleventh sampling event was conducted. The locations of the oxygen injectors in operation (J2 through J4, J7, J9 through J13, and J18 through J20) had last been modified in January 2000. The monitoring locations to determine the effectiveness of the pilot study were MW6, MW11, MW60, MW61, MW63, P1, P2, P3, P4, D1, D3, D4, D6, D10, and D17.

The groundwater sampling performed in September 2000 indicated that the area of groundwater contamination continued to be separated into two plumes. One was long and thin and located downgradient of the free product area, while the other was in the vicinity of the free product. The areas of contamination were approximately 6,750 ft² and 2,350 ft². Benzene was detected in 15 of 15 samples at concentrations ranging from 0.3J μ g/L to <2,500 μ g/L. Five of the concentrations exceeded the IWQS of 71.28 μ g/L and the benzene ACL of 78 μ g/L. Ethylbenzene was detected in 14 of 15 samples at concentrations ranging from 0.4J μ g/L to 60,000 μ g/L. The concentrations ranging from 0.15J μ g/L to 617,000 μ g/L. Total xylenes were detected in 15 of 15 samples at concentrations of toluene did not exceed the IWQS of 200,000 μ g/L. The analytical results for groundwater are presented in Table 3.

In September 2000, the groundwater flow direction was toward the northwest, the groundwater gradient was approximately 0.011 foot/foot, and the average groundwater elevation was 13.91 feet AMSL. A list of the wells and corresponding water-level and product depths is presented in Table 4. Free product exceeding 1/8 inch (i.e., >0.01 foot) was observed in three product delineation points (i.e., D10, D11 and D17). There was only one area of free product that was located between product recovery wells MW59, PR-2, PR-3, and PR-4. This area covered approximately 669 ft². The Ferret[™] product recovery system in MW59 was shut off on August 22, 2000, because there was not significant product recovery. On November 2, 2000, the Ferret[™] system was removed from MW59, and there was no measurable free product observed in MW8A, MW59, PR-2, PR-3, PR-4, and PR-5. As of November, no Ferret[™] product recovery systems were installed in any of the recovery wells at the site; however, the enhanced product recovery system continued to operate during this time period.

In August 2000, the Matrix system had power problems, and the circuit breakers were tripped. The system was off for approximately 1 to 2 weeks. Representatives from the compressor manufacturer indicated that the system had a "ronk add-a-phase" problem, and as a result, the three-phase converter was rebalanced in October 2000. In addition, the air injection portion of the enhanced recovery system seized up and needed to be replaced. The vacuum extraction portion of the system continued to operate uninterrupted.

Due to the changing plume boundaries, sample locations MW6, MW11, P3, and D1 were removed from the monitoring plan following the September 2000 sampling event. Locations D7, D9, D12, D14, and D19 were added to provide additional monitoring coverage of the plume in the vicinity of the free product area. The oxygen injection locations were not changed for the next sampling event in November/December 2000.

3.4.12 Twelfth Sampling Event – November/December 2000

The oxygen injection system had been in operation for 18 months (i.e., 1.5 years) when the twelfth sampling event was conducted. The locations of the oxygen injectors in operation (J2 through J4, J7, J9 through J13, and J18 through J20) had last been modified in January 2000. The monitoring locations to determine the effectiveness of the pilot study were MW60, MW61, MW63, P1, P2, P4, D3, D4, D6, D7, D9, D10, D12, D14, D17, and D19.

The groundwater sampling performed in November/December 2000 indicated that the thin plume running parallel to the storm drain had dissipated to concentrations less than 10 μ g/L. The plume in the vicinity of the free product area was roughly circular in shape and extended north to MW61 and from D9 west to P4. The area of contamination was approximately 7,600 ft². Benzene was detected in 16 of 16 samples at concentrations ranging from 0.56J μ g/L to 1,140 μ g/L. Seven of the concentrations exceeded the IWQS of 71.28 μ g/L and the benzene ACL of 78 μ g/L. The concentrations of toluene, ethylbenzene, and total

xylenes did not exceed the IWQS of 200,000 μ g/L; the IWQS of 28,718 μ g/L; or the MCL of 10,000 μ g/L, respectively. The analytical results for groundwater are presented in Table 3.

In November/December 2000, the groundwater flow direction was toward the northwest, the groundwater gradient was approximately 0.0097 foot/foot, and the average groundwater elevation was 12.09 feet AMSL. A list of the wells and corresponding water-level and product depths is presented in Table 4. Free product exceeding 1/8 inch (i.e., >0.01 foot) was observed in one product delineation points (i.e., D10). There was only one area of free product located near PR-4 that covered an area of approximately 205 ft². Free product recovery in November/December 2000 consisted of operation of the enhanced product removal system. Due to the lack of recoverable free product, the Ferret[™] product recovery systems were not installed in any of the product recovery wells.

The air injection portion of the enhanced recovery system remained shut down until the blower/compressor was replaced in November 2000 and a new motor was installed in December 2000. The air injection system was restarted in December 2000. The coupling joint between the motor and the blower/compressor was replaced in January 2001. In addition, the glass liquid-level tube on the vacuum condensate tank froze in January 2001 and was replaced in February 2001.

On January 10, 2001, the downgradient injectors J2, J3, and J4 were turned off because the benzene concentrations in this area of the site had decreased below 10 μ g/L. Injectors J5, J6, and J8 were turned on to form the row of injectors located on the leading edge of the groundwater plume. The monitoring locations were not changed for the next sampling event in February 2001.

3.4.13 Thirteenth Sampling Event – February 2001

The oxygen injection system had been in operation for 21 months (i.e., 1.8 years) when the thirteenth sampling event was conducted. The locations of the oxygen injectors in operation (J5 through J9 and J13 through J18 and J20) had last been modified in January 2001. The monitoring locations to determine the effectiveness of the pilot study were MW60, MW61, MW63, P1, P2, P4, D3, D4, D6, D7, D9, D10, D12, D14, D17, and D19.

The groundwater sampling performed in February 2001 indicated that the plume was roughly circular in shape and extended from D19 north to MW61 and from D9 west to P4. The area of contamination was approximately 7,500 ft². Benzene was detected in 16 of 16 samples at concentrations ranging from 0.28J μ g/L to 1,180 μ g/L. Five of the concentrations exceeded the IWQS of 71.28 μ g/L and four exceeded the benzene ACL of 78 μ g/L. The concentrations of toluene, ethylbenzene, and total xylenes did not exceed the IWQS of 200,000 μ g/L; the IWQS of 28,718 μ g/L; or the MCL of 10,000 μ g/L, respectively. The analytical results for groundwater are presented in Table 3.

In February 2001, the groundwater flow direction was toward the northwest, the groundwater gradient was approximately 0.012 foot/foot, and the average groundwater elevation was 12.14 feet AMSL. A list of the wells and corresponding water-level and product depths is presented in Table 4. Free product exceeding 1/8 inch (i.e., >0.01 foot) was observed in four product delineation points (i.e., D3, D6, D10, and D11). Two areas of free product were observed. One area was located between product recovery wells PR-2, PR-4, and PR-5 and covered an area of approximately 745 ft². The second covered an area of approximately 65 ft² and was located near D3. Free product recovery in February 2001 consisted of operation of the enhanced product removal system. Due to the lack of recoverable free product, the Ferret[™] product recovery systems were not installed in any of the product recovery wells during this time period.

On January 31, 2001, the Matrix system was not maintaining pressure in the oxygen tank. Representatives from Matrix fixed the problem on February 21, 2001. On March 13, 2001, injector J8 was turned off because the benzene concentrations in this area of the site were less than 10 μ g/L. Injector J27, which was installed to provide additional coverage within the middle of the groundwater plume, was turned on. The monitoring locations were not changed for the next sampling event in April 2001.

3.4.14 Fourteenth Sampling Event – April 2001

The oxygen injection system had been in operation for 23 months (i.e., 1.9 years) when the fourteenth sampling event was conducted. The locations of the oxygen injectors in operation (J5 through J7, J9 through J13, J18 through J20, and J27) had last been modified in March 2001. The monitoring locations to determine the effectiveness of the pilot study were MW60, MW61, MW63, P1, P2, P4, D3, D4, D6, D7, D9, D10, D12, D14, D17, and D19.

The groundwater sampling performed in April 2001 indicated that the plume was roughly circular in shape and extended from D19 north to MW61 and from D9 west to P4. The area of contamination was approximately 7,100 ft². Benzene was detected in 15 of 16 samples at concentrations ranging from 0.27J μ g/L to 476 μ g/L. Five of the concentrations exceeded the IWQS of 71.28 μ g/L and the benzene ACL of 78 μ g/L. Total xylenes were detected in 13 of 16 samples at concentrations ranging from 0.93J μ g/L to 14,700 μ g/L. The concentration in D10 exceeded the total xylenes MCL of 10,000 μ g/L. The concentrations of toluene and ethylbenzene did not exceed the IWQSs of 200,000 μ g/L and 28,718 μ g/L, respectively. The analytical results for groundwater are presented in Table 3.

In April 2001, the groundwater flow direction was toward the northwest, the groundwater gradient was approximately 0.013 foot/foot, and the average groundwater elevation was 12.49 feet AMSL. A list of the wells and corresponding water-level and product depths is presented in Table 4. Free product exceeding 1/8 inch (i.e., >0.01 foot) was observed in one product delineation point (i.e., D11). The area of free product was located between product recovery wells PR-2, and PR-4 and covered an area of approximately 182 ft².

Prior to the fourteenth sampling event, two additional free product recovery wells (PR-6 and PR-7) were installed at the site in April 2001. Product delineation point D3 was overdrilled for the installation of well PR-6, and well PR-7 was drilled in the vicinity of product delineation point D10. Boring logs and well construction diagrams were provided in the Second Annual Progress Report (SAIC 2001). No measurable free product was observed in these wells following well development activities. Free product recovery in April 2001 consisted of operation of the enhanced product removal system. Due to the lack of recoverable free product, the Ferret[™] product recovery systems were not installed in any of the product recovery wells during this time period.

In April 2001, the condensate pump in the condensate tank was not working. In May 2001, new floats were installed in the tank, and the system was restarted. In addition, the main electrical box was replaced on the Matrix system, and the discharge piping of the vacuum extraction system was cleaned out. Neither the oxygen injection locations nor the monitoring locations were changed for the next sampling event in June 2001.

3.4.15 Fifteenth Sampling Event – June 2001

The oxygen injection system had been in operation for 24 months (i.e., 2.0 years) when the fifteenth sampling event was conducted. The locations of the oxygen injectors in operation (J5 through J7, J9 through J13, J18 through J20, and J27) had last been modified in March 2001. The monitoring locations to

determine the effectiveness of the pilot study were MW60, MW61, MW63, P1, P2, P4, D3, D4, D6, D7, D9, D10, D12, D14, D17, and D19.

The groundwater sampling performed in June 2001 indicated that the plume was roughly circular in shape and extended from D19 north to D3 and from D9 west to P4. The area of contamination was approximately 5,350 ft². Benzene was detected in 14 of 16 samples at concentrations ranging from 0.35J μ g/L to 988 μ g/L. Six of the concentrations exceeded the IWQS of 71.28 μ g/L and the benzene ACL of 78 μ g/L. The concentrations of toluene, ethylbenzene, and total xylenes did not exceed the IWQS of 200,000 μ g/L; the IWQS of 28,718 μ g/L; or the MCL of 10,000 μ g/L, respectively. The analytical results for groundwater are presented in Table 3.

In June 2001, the groundwater flow direction was toward the northwest, the groundwater gradient was approximately 0.011 foot/foot, and the average groundwater elevation was 12.09 feet AMSL. A list of the wells and corresponding water-level and product depths is presented in Table 4. Free product exceeding 1/8 inch (i.e., >0.01 foot) was not observed in any of the product delineation points.

Free product recovery in June 2001 consisted of operation of the enhanced product removal system. Due to the lack of recoverable free product, the Ferret[™] product recovery systems were not installed in any of the product recovery wells during this time period.

In mid-May 2001, the condensate pump was not working, and the tank was full, causing the vacuum system to shut down. In June, water was pumped out of the tank, and maintenance was performed on the entire system. When the systems were restarted, the vacuum was lowered to prevent as much water from being extracted. In July, the condensate tank had to again be emptied. Filters in the vacuum system were replaced, as was the gasket between the motor and the compressor of the blower system. Neither the oxygen injection locations nor the monitoring locations were changed for the next sampling event in August 2001.

3.4.16 Sixteenth Sampling Event – August 2001

The oxygen injection system had been in operation for 26 months (i.e., 2.2 years) when the sixteenth sampling event was conducted. The locations of the oxygen injectors in operation had last been modified in March 2001, as shown in Figure 4. The row of oxygen injectors (J5 through J7) downgradient of the groundwater plume was in operation. The oxygen injectors (J9 through J13) on the leading edge of the plume were in operation, and the oxygen injectors located within the groundwater plume (J18 through J20 and J27) were in operation. The monitoring locations to determine the effectiveness of the pilot study were MW60, MW61, MW63, P1, P2, P4, D3, D4, D6, D7, D9, D10, D12, D14, D17, and D19.

Sixteen monitoring locations were sampled for BTEX on August 8, 2001. Analytical results for groundwater sampling are summarized in Table 3 and presented in Figure 4. The laboratory results of the August 2001 sampling event are provided in Appendix V and summarized below.

- Benzene was detected in 15 of 16 samples at concentrations ranging from 0.17J μ g/L to 885 μ g/L. Three of the concentrations exceeded the IWQS of 71.28 μ g/L and the benzene ACL of 78 μ g/L.
- Toluene was detected in two of 16 samples at concentrations of 10.2 μ g/L and 28.5 μ g/L. None of the concentrations exceeded the toluene IWQS of 200,000 μ g/L.
- Ethylbenzene was detected in 12 of 16 samples at concentrations ranging from 0.20J μ g/L to 901 μ g/L. None of the concentrations exceeded the ethylbenzene IWQS of 28,718 μ g/L.

• Total xylenes were detected in 16 of 16 samples at concentrations ranging from 0.38J μ g/L to 2,630 μ g/L. A Georgia IWQS for xylenes does not exist, but none of the concentrations exceeded the MCL of 10,000 μ g/L.

As shown in Figure 4, the area of groundwater contamination was oblong in shape and extended from D19 north to D3/PR-6 and from D9 west to PR-4. Low concentrations of BTEX compounds were also detected north of this larger plume in MW61, where constituents were last detected in April 2001. The areas of contamination were approximately 5,050 ft² and 190 ft² around MW61, as indicated in Table 5. Of the 16 wells sampled in August 2001, three wells (D6, D7, and D9) exceeded the IWQS for benzene, as compared to six during the previous sampling event. Within the plume, there was one well (D9) at which the benzene concentration exceeded 500 μ g/L. The concentrations of benzene in MW60, MW61, P2, P4, D3/PR-6, and D4, which are located downgradient of the groundwater plume, were below the IWQS.

Groundwater elevations were measured in the monitoring wells on August 6, 2001, to determine the groundwater flow direction. A list of the wells and corresponding water-level elevations is presented in Table 4. The potentiometric surface map generated from the water-level measurements is presented in Figure 5. In August 2001, the groundwater flow direction was toward the northwest, the groundwater gradient was approximately 0.014 foot/foot, and the average groundwater elevation was 12.03 feet AMSL.

Depth to free product and free product thickness are presented in Table 4. In August 2001, free product exceeding 1/8 inch (i.e., >0.01 foot) was not observed in any of the product delineation points. Free product recovery in August 2001 consisted of operation of the enhanced product removal system. Neither the oxygen injection locations nor the monitoring locations were changed for the next sampling event in October 2001.

3.4.17 Seventeenth Sampling Event – October 2001

The oxygen injection system had been in operation for 28 months (i.e., 2.3 years) when the seventeenth sampling event was conducted. The locations of the oxygen injectors in operation had last been modified in March 2001, as shown in Figure 6. The row of oxygen injectors (J5 through J7) downgradient of the groundwater plume was in operation. The oxygen injectors (J9 through J13) on the leading edge of the plume were in operation, and the oxygen injectors located within the groundwater plume (J18 through J20 and J27) were in operation. The monitoring locations to determine the effectiveness of the pilot study were MW60, MW61, MW63, P1, P2, P4, D3, D4, D6, D7, D9, D10, D12, D14, D17, and D19.

Sixteen monitoring locations were sampled for BTEX on October 4, 2001. Analytical results for groundwater sampling are summarized in Table 3 and presented in Figure 6. The laboratory results of the October 2001 sampling event are provided in Appendix V and summarized below.

- Benzene was detected in 16 of 16 samples at concentrations ranging from 0.20J μ g/L to 643 μ g/L. Four of the concentrations exceeded the IWQS of 71.28 μ g/L and the benzene ACL of 78 μ g/L.
- Toluene was detected in ten of 16 samples at concentrations ranging from 0.26J μ g/L to 20.3 μ g/L. None of the concentrations exceeded the toluene IWQS of 200,000 μ g/L.
- Ethylbenzene was detected in 13 of 16 samples at concentrations ranging from 0.40J μ g/L to 734 μ g/L. None of the concentrations exceeded the ethylbenzene IWQS of 28,718 μ g/L.

• Total xylenes were detected in 15 of 16 samples at concentrations ranging from 0.20J μ g/L to 2,720 μ g/L. A Georgia IWQS for xylenes does not exist, but none of the concentrations exceeded the MCL of 10,000 μ g/L.

As shown in Figure 6, the area of groundwater contamination continued to be oblong in shape and extended from D19 north to D3/PR-6 and from D9 west to PR-4. Low concentrations of BTEX compounds were also detected north of this plume in MW61 and northwest of this plume in P1. The areas of contamination were approximately 5,350 ft², 200 ft² around MW61, and 150 ft² around P1, as indicated in Table 5. Of the 16 wells sampled in October 2001, four (D4, D6, D7, and D9) exceeded the IWQS for benzene, as compared to three during the previous sampling event. Within the plume, there was one well (D9) at which the benzene concentration exceeded 500 μ g/L. The concentrations of benzene in MW60, MW61, P2, P4, and D3/PR-6, which are located downgradient of the groundwater plume, were below the IWQS.

Groundwater elevations were measured in the monitoring wells on October 3, 2001, to determine the groundwater flow direction. A list of the wells and corresponding water-level elevations is presented in Table 4. The potentiometric surface map generated from the water-level measurements is presented in Figure 7. In October 2001, the groundwater flow direction was toward the northwest, the groundwater gradient was approximately 0.018 foot/foot, and the average groundwater elevation was 12.09 feet AMSL.

Depth to free product and free product thickness are presented in Table 4. In October 2001, free product exceeding 1/8 inch (i.e., >0.01 foot) was not observed in any of the product delineation points. Free product recovery in October 2001 consisted of operation of the enhanced product removal system.

On October 2, 2001, the circuit breakers associated with the Matrix system were tripped. The Matrix system was restarted on October 2, 2001. Also on October 2, 2001, the condensate pump/vapor-level alarm was inoperable due to a problem with the float. The system was restarted without the blower.

On November 7, 2001, a new float was installed in the vacuum extraction system. Also in November 2001, injectors J5, J6, and J7 downgradient of the plume were turned off because benzene concentrations in this area of the site had decreased to below 10 μ g/L. Injectors J16 and J17 were turned on to reduce the contaminant concentrations in the southern portion of the plume. Injector J25 was turned on to help remediate the plume around MW61. The monitoring locations were not changed for the next sampling event in December 2001.

3.4.18 Eighteenth Sampling Event – December 2001

The oxygen injection system had been in operation for 30 months (i.e., 2.5 years) when the eighteenth sampling event was conducted. The locations of the oxygen injectors in operation had last been modified in November 2001, as shown in Figure 8. The row of oxygen injectors (J9 through J13) on the leading edge of the plume was in operation, and the oxygen injectors (J16 through J20, J25 and J27) located within the groundwater plume were in operation. The monitoring locations to determine the effectiveness of the pilot study were MW60, MW61, MW63, P1, P2, P4, D3, D4, D6, D7, D9, D10, D12, D14, D17, and D19.

Sixteen monitoring locations were sampled for BTEX on December 1, 2001. Analytical results for groundwater sampling are summarized in Table 3 and presented in Figure 8. The laboratory results of the December 2001 sampling event are provided in Appendix V and summarized below.

• Benzene was detected in 12 of 16 samples at concentrations ranging from 0.41J μ g/L to 882 μ g/L. Four of the concentrations exceeded the IWQS of 71.28, and three exceeded the benzene ACL of 78 μ g/L.

- Toluene was detected in one of 16 samples at a concentration of 14.0 μ g/L. None of the concentrations exceeded the toluene IWQS of 200,000 μ g/L.
- Ethylbenzene was detected in 12 of 16 samples at concentrations ranging from 0.26J μ g/L to 682 μ g/L. None of the concentrations exceeded the ethylbenzene IWQS of 28,718 μ g/L.
- Total xylenes were detected in 11 of 16 samples at concentrations ranging from 1.2J μ g/L to 2,340 μ g/L. A Georgia IWQS for xylenes does not exist, but none of the concentrations exceeded the MCL of 10,000 μ g/L.

As shown in Figure 8, the area of groundwater contamination was roughly circular in shape and extended from D19 north to D3/PR-6 and from D9 west to PR-5. Low concentrations of BTEX compounds were also detected northwest of this plume in P1. The areas of contamination were approximately 5,300 ft², and 140 ft², as indicated in Table 5. Of the 16 wells sampled in December 2001, four wells (D4, D7, D9, and D12) exceeded the IWQS for benzene. Within the plume, there was one well (D9) at which the benzene concentration exceeded 500 μ g/L. The concentrations of benzene in MW60, MW61, P2, P4, D3/PR-6, and D6, which are located downgradient of the groundwater plume, were below the IWQS.

Groundwater elevations were measured in the monitoring wells on December 1, 2001, to determine the groundwater flow direction. A list of the wells and corresponding water-level elevations is presented in Table 4. The potentiometric surface map generated from the water-level measurements is presented in Figure 9. In December 2001, the groundwater flow direction was toward the northwest, the groundwater gradient was approximately 0.011 foot/foot, and the average groundwater elevation was 11.40 feet AMSL.

Depth to free product and free product thickness are presented in Table 4. In December 2001, free product exceeding 1/8 inch (i.e., >0.01 foot) was not observed in any of the product delineation points. Free product recovery in December 2001 consisted of operation of the enhanced product removal system. Neither the oxygen injection locations nor the monitoring locations were changed for the next sampling event in February 2002.

3.4.19 Nineteenth Sampling Event – February 2002

The oxygen injection system had been in operation for 32 months (i.e., 2.6 years) when the nineteenth sampling event was conducted. The locations of the oxygen injectors in operation had last been modified in November 2001, as shown in Figure 10. The row of oxygen injectors (J9 through J13) on the leading edge of the plume was in operation, and the oxygen injectors (J16 through J20, J25 and J27) located within the groundwater plume were in operation. The monitoring locations to determine the effectiveness of the pilot study were MW60, MW61, MW63, P1, P2, P4, D3, D4, D6, D7, D9, D10, D12, D14, D17, and D19.

Sixteen monitoring locations were sampled for BTEX on February 19 and 20, 2002. Analytical results for groundwater sampling are summarized in Table 3 and presented in Figure 10. The laboratory results of the February 2002 sampling event are provided in Appendix V and summarized below.

- Benzene was detected in 13 of 16 samples at concentrations ranging from 0.51J μ g/L to 924 μ g/L. Three of the concentrations exceeded the IWQS of 71.28 μ g/L and the benzene ACL of 78 μ g/L.
- Toluene was detected in 11 of 16 samples at concentrations ranging from 0.17J μ g/L to 26.8 μ g/L. None of the concentrations exceeded the toluene IWQS of 200,000 μ g/L.

- Ethylbenzene was detected in 11 of 16 samples at concentrations ranging from 0.37J μ g/L to 791 μ g/L. None of the concentrations exceeded the ethylbenzene IWQS of 28,718 μ g/L.
- Total xylenes were detected in 11 of 16 samples at concentrations ranging from 0.60J μ g/L to 2,560 μ g/L. A Georgia IWQS for xylenes does not exist, but none of the concentrations exceeded the MCL of 10,000 μ g/L.

As shown in Figure 10, the area of groundwater contamination continued to be roughly circular in shape and extended from D19 north to D3/PR-6 and from D9 west to PR-5. The area of contamination was approximately 4,650 ft², as indicated in Table 5. Of the 16 wells sampled in February 2002, three wells (D6, D7, and D9) exceeded the IWQS for benzene, as in the previous sampling event. Within the plume, there was one well (D9) at which the benzene concentration exceeded 500 μ g/L. The concentrations of benzene in MW60, MW61, P2, P4, D4, and D3/PR-6, which are located downgradient of the groundwater plume, were below the IWQS.

Groundwater elevations were measured in the monitoring wells on February 19, 2002, to determine the groundwater flow direction. A list of the wells and corresponding water-level elevations is presented in Table 4. The potentiometric surface map generated from the water-level measurements is presented in Figure 11. In February 2002, the groundwater flow direction was toward the northwest, the groundwater gradient was approximately 0.011 foot/foot, and the average groundwater elevation was 11.47 feet AMSL.

Depth to free product and free product thickness are presented in Table 4. In February 2002, free product exceeding 1/8 inch (i.e., >0.01 foot) was not observed in any of the product delineation points. Free product recovery in February 2002 consisted of operation of the enhanced product removal system.

In March 2002, the blower was repaired. There was a problem with the air compressor in the Matrix trailer, and that system was restarted. Neither the oxygen injection locations nor the monitoring locations were changed for the next sampling event in April 2002.

3.4.20 Twentieth Sampling Event – April 2002

The oxygen injection system had been in operation for 34 months (i.e., 2.8 years) when the twentieth sampling event was conducted. The locations of the oxygen injectors in operation had last been modified in November 2001, as shown in Figure 12. The row of oxygen injectors (J9 through J13) on the leading edge of the plume was in operation, and the oxygen injectors (J16 through J20, J25 and J27) located within the groundwater plume were in operation. The monitoring locations to determine the effectiveness of the pilot study were MW60, MW61, MW63, P1, P2, P4, D3, D4, D6, D7, D9, D10, D12, D14, D17, and D19.

Sixteen monitoring locations were sampled for BTEX on April 9, 2002. Analytical results for groundwater sampling are summarized in Table 3 and presented in Figure 10. The laboratory results of the April 2002 sampling event are provided in Appendix V and summarized below.

- Benzene was detected in 13 of 16 samples at concentrations ranging from 0.31J μ g/L to 817 μ g/L. Two of the concentrations exceeded the IWQS of 71.28 μ g/L and the benzene ACL of 78 μ g/L.
- Toluene was detected in one of 16 samples at a concentration of 23.6 μ g/L. This concentration did not exceed the toluene IWQS of 200,000 μ g/L.
- Ethylbenzene was detected in 13 of 16 samples at concentrations ranging from 0.48J μ g/L to 692 μ g/L. None of the concentrations exceeded the ethylbenzene IWQS of 28,718 μ g/L.

• Total xylenes were detected in 13 of 16 samples at concentrations ranging from 1.6J μ g/L to 1,850 μ g/L. A Georgia IWQS for xylenes does not exist, but none of the concentrations exceeded the MCL of 10,000 μ g/L.

As shown in Figure 12, the area of groundwater contamination was oval in shape and extended from D19 north to D3/PR-6 and from D9 west to PR-2. The area of contamination was approximately 3,440 ft², as indicated in Table 5. Of the 16 wells sampled in April 2002, two wells (D7 and D9) exceeded the IWQS for benzene, as compared to three during the previous sampling event. Within the plume, there was one well (D9) at which the benzene concentration exceeded 500 μ g/L. The concentrations of benzene in MW60, MW61, P2, P4, D3/PR-6, D4, and D6, which are located downgradient of the groundwater plume, were below the IWQS.

Groundwater elevations were measured in the monitoring wells on April 9, 2002, to determine the groundwater flow direction. A list of the wells and corresponding water-level elevations is presented in Table 4. The potentiometric surface map generated from the water-level measurements is presented in Figure 13. In April 2002, the groundwater flow direction was toward the northwest, the groundwater gradient was approximately 0.012 foot/foot, and the average groundwater elevation was 11.66 feet AMSL.

Depth to free product and free product thickness are presented in Table 4. In April 2002, free product exceeding 1/8 inch (i.e., >0.01 foot) was not observed in any of the product delineation points. Free product recovery in April 2002 consisted of operation of the enhanced product removal system.

In April 2002, an air conditioning unit was installed in the Matrix trailer. In May 2002, the oil, oil filters and air filters were changed on the compressor, and the air filters were changed on the oxygen generator in the Matrix trailer. The system would not restart due to a problem with the "ronk add-a-phase" three-phase converter. It was determined that instead of fixing the three-phase converter, the system would be rewired. Neither the oxygen injection locations nor the monitoring locations were changed for the next sampling event in June 2001.

3.4.21 Twenty-First Sampling Event – June 2002

The oxygen injection system had been in operation for 36 months (i.e., 3.0 years) when the twenty-first sampling event was conducted. The locations of the oxygen injectors in operation had last been modified in November 2001, as shown in Figure 14. The row of oxygen injectors (J9 through J13) on the leading edge of the plume was in operation, and the oxygen injectors (J16 through J20, J25 and J27) located within the groundwater plume were in operation. The monitoring locations to determine the effectiveness of the pilot study were MW60, MW61, MW63, P1, P2, P4, D3, D4, D6, D7, D9, D10, D12, D14, D17, and D19.

Sixteen monitoring locations were sampled for BTEX on June 7, 8, and 9, 2002. Analytical results for groundwater sampling are summarized in Table 3 and presented in Figure 12. The laboratory results of the June 2002 sampling event are provided in Appendix V and summarized below.

- Benzene was detected in 11 of 16 samples at concentrations ranging from 0.35J μ g/L to 574 μ g/L. Two of the concentrations exceeded the IWQS of 71.28 μ g/L and the benzene ACL of 78 μ g/L.
- Toluene was detected in five of 16 samples at a concentrations ranging from 1.1J μ g/L to 15.7J μ g/L. None of the concentrations exceeded the toluene IWQS of 200,000 μ g/L.

- Ethylbenzene was detected in nine of 16 samples at concentrations ranging from 1.1J μ g/L to 506 μ g/L. None of the concentrations exceeded the ethylbenzene IWQS of 28,718 μ g/L.
- Total xylenes were detected in nine of 16 samples at concentrations ranging from 0.70J μ g/L to 1,690 μ g/L. A Georgia IWQS for xylenes does not exist, but none of the concentrations exceeded the MCL of 10,000 μ g/L.

As shown in Figure 14, the area of groundwater contamination was oblong in shape and extended from D9 west to PR-5. Contamination was also detected south of this plume in D19. The areas of contamination were approximately 2,930 ft² and 90 ft² around D19, as indicated in Table 5. Of the 16 wells sampled in April 2002, two wells (D6 and D9) exceeded the IWQS for benzene, as during the previous sampling event. Within the plume, there was one well (D9) at which the benzene concentration exceeded 500 μ g/L. The concentrations of benzene in MW60, MW61, P2, P4, and D3/PR-6, which are located downgradient of the groundwater plume, were below the IWQS.

Groundwater elevations were measured in the monitoring wells on June 7, 2002, to determine the groundwater flow direction. A list of the wells and corresponding water-level elevations is presented in Table 4. The potentiometric surface map generated from the water-level measurements is presented in Figure 15. In June 2002, the groundwater flow direction was toward the northwest, the groundwater gradient was approximately 0.011 foot/foot, and the average groundwater elevation was 11.21 feet AMSL.

Depth to free product and free product thickness are presented in Table 4. In June 2002, free product exceeding 1/8 inch (i.e., >0.01 foot) was not observed in any of the product delineation points. Free product recovery in April 2002 consisted of operation of the enhanced product removal system. Neither the oxygen injection locations nor the monitoring locations were changed for the next sampling event in August 2002.

In July 2002, ProLectric rewired the Matrix system to bypass the three-phase converter. The Matrix system was restarted on July 11, 2002. It was determined in June 2002 that the lifespan of the blower associated with the vacuum extraction system had been exceeded. As a result, a new blower was installed on July 11, 2002, at which time all systems were completely operational.

4.0 ANALYSIS OF TRENDS

4.1 AREAS OF PLUME AND FREE PRODUCT

During the first year of oxygen injection (i.e., May 1999 through May 2000), the area of benzene contamination in groundwater decreased from 22,700 ft² in May 1999 to 8,815 ft² in May 2000. During the first year of remediation, the area of the dissolved benzene plume was reduced by 61 percent. The area of the plume is highly dependent on the wells that have continually been added to the monitoring program to better track the progress of the remediation.

The area of benzene contamination in groundwater continued to decrease in size during the second year of operation. The area of the dissolved benzene plume was 7,800 ft² in July 2000 and 5,350 ft² in June 2001, representing a reduction of 31 percent. The total decrease in the plume area has been 76 percent since the initiation of the corrective action.

As shown in the groundwater quality maps, the area of benzene contamination in groundwater has continued to decrease in size during the third year of operation. The area of the dissolved benzene plume was $5,350 \text{ ft}^2$ in June 2001 and $3,020 \text{ ft}^2$ in June 2002, representing a reduction of 44 percent. The total decrease in the plume area has been 87 percent since the initiation of the corrective action.

During the pilot study activities in 1999, the area of free product ranged in size from approximately 1,850 ft^2 to 2,875 ft^2 , with limited recovery of free product. The area of free product did not show a significant decrease in area until additional free product recovery measures were implemented in February 2000. As a result of the enhanced product recovery system, consisting of vacuum extraction and air injection systems installed in February 2000, no measurable free product has been observed at the site since April 2001.

4.2 BENZENE CONCENTRATIONS IN GROUNDWATER

During the first year of oxygen injection, the west side, or downgradient edge, of the dissolved groundwater plume encompassed wells P1, P3, MW11, and MW63. At the end of the second year of oxygen injection, wells D1, P2, P4, MW60, and MW61, which had been located in the middle of the plume during the first year of remediation, were located on the downgradient edge of the dissolved groundwater plume. As shown in Figure 16a, the benzene concentrations in these nine wells were well below the IWQS of 71.28 μ g/L and ACL of 78 μ g/L in June 2002.

During the first years of oxygen injection, wells D3, D4, D6, D7, D9, D10, D12, D14, and D17 were located within the plume. Wells D3 and D4 have been in the monitoring plan since May 1999. As the area of the plume changed, wells D6, D10, and D17 were added to the monitoring plan in March 2000, and wells D7, D9, D12, D14, and D19 were added to the monitoring plan in December 2000. As shown in Figure 16b, the benzene concentrations in wells D3, D10, and D17, which are located at the plume perimeter, have been steadily decreasing and were well below the IWQS of 71.28 μ g/L and the ACL of 78 μ g/L in June 2002. The benzene concentrations in wells D4, D6, D7, and D9 remained above the remedial levels through the first 2 years of oxygen injection. However, the benzene concentrations in wells D4, D6, and D7 have been reduced by 75 to 90 percent during operation of the remediation system. The benzene concentrations in D4 and D7 have also been steadily decreasing. The concentration in D4 has remained below the IWQS and the ACL since February 2002. The concentration in D7 dropped below the IWQS and the ACL in June 2002. Since wells D12 and D14 were added to the monitoring plan, the benzene in D12 and D14 began to steadily decrease. As of June 2002, two wells within the plume, D6 and D9, had benzene concentrations that exceeded the ACL of 78 μ g/L and the IWQS of 71.28 μ g/L.

Wells MW6, P5, D19, and D21 are located on the east side, or upgradient edge, of the groundwater plume. As shown in Figure 16c, the benzene concentrations have remained below the ACL of 78 μ g/L and the IWQS of 71.28 μ g/L since the first sampling event after the injection of oxygen began. As a result, P5 and D21 were dropped from the monitoring program after the January 2000 sampling event in lieu of other wells located in the free product area. MW6 contained low concentrations of benzene, probably because it is between the two rows of former underground storage tanks that were located in the Northern Fuel Battery. MW6 was dropped from the monitoring plan after the September 2000 sampling event so that D19 could be added in December 2000 to monitor the upgradient edge of the groundwater plume. The benzene concentrations in D19 have decreased by 86 percent since the well was added to the monitoring plan.

5.0 CONCLUSIONS AND RECOMMENDATIONS

The oxygen injection corrective action has produced positive results by reducing the area of the dissolved hydrocarbon plume so that it no longer impacts the underground storm drain at concentrations above the benzene IWQS. The benzene concentrations continue to decrease at the site, and the corrective action should be continued at the site until benzene concentration levels are below the ACL of 78 μ g/L. At the end of the first year of oxygen injection, the site ranking score was 51,000. After 36 months of oxygen injection (i.e., in June 2002), the site ranking score was 3,500 (Appendix VI).

Three additional oxygen injectors will be installed east of D9 along with two additional monitoring points to reduce the contamination in the area around D9 and to confirm upgradient conditions.

Bimonthly (i.e., every other month) groundwater sampling of wells MW60, MW61, MW63, P1, P2, P4, D3, D4, D6, D7, D9, D10, D12, D14, D17, and D19 for BTEX should continue until the benzene ACL has been achieved. The wells sampled as part of the monitoring program might be changed based on the analytical results to better track the changes in the groundwater plume. Once the benzene ACL has been achieved, confirmatory soil and groundwater sampling will be conducted. As indicated in the CAP–Part B Addendum #1 and First Annual Pilot Study Progress Report (SAIC 2000), confirmatory soil sampling will consist of the installation of 15 soil borings, with soil samples being collected for BTEX, polynuclear aromatic hydrocarbons, and TPH.

The enhanced free product recovery system that was implemented in February 2000 appears to have removed the majority of the recoverable free product; however, pockets of free product might be tied up in the vadose zone. The combination of air injection and vacuum extraction should remain in operation in conjunction with the oxygen injection system.

The sampling scheme will be changed for the August 2002 sampling event to focus on the groundwater contamination plume and to better define the area exceeding the benzene ACL of 78 μ g/L. Additional injectors might be required in the vicinity of D9 to focus cleanup activities in the areas of higher benzene concentrations within the plume.

A fourth annual progress report will be submitted to GA EPD in August 2003 and will summarize the corrective action measures and results from July 2002 to June 2003.

6.0 REFERENCES

- Coughlan, Michael F., 1998. Letter to John Spears (Fort Stewart Directorate of Public Works, Environmental Branch), September 4.
- Metcalf & Eddy 1997. Final Corrective Action Plan—Part B Report for Former Building 728, EPD Facility ID: 9-025035 and 9-025049, Hunter Army Airfield, Georgia, December.
- SAIC (Science Applications International Corporation) 2000. Corrective Action Plan—Part B Addendum #1 and First Annual Pilot Study Progress Report, Former Building 728, Facility ID \$9-025049, Hunter Army Airfield, Georgia, August.
- SAIC 2001. Second Annual Pilot Study Progress Report, Former Building 728, Facility ID \$9-025049, Hunter Army Airfield, Georgia, August.

APPENDIX I

FIGURES

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Figure 1. Location Map for the Former Building 728 Site, Facility ID #9-025049

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Figure 2. Site Location Map for the Former Building 728 Site, Facility ID #9-025049

Third Annual Progress Report Former Building 728, Facility ID #9-025049

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Figure 5. Groundwater Potentiometric Surface Map (August 2001) at the Former Building 728 Site, Facility ID #9-025049





Figure 7. Groundwater Potentiometric Surface Map (October 2001) at the Former Building 728 Site, Facility ID #9-025049





Figure 9. Groundwater Potentiometric Surface Map (December 2001) at the Former Building 728 Site, Facility ID #9-025049



Figure 10. Groundwater Analytical Results (February 2002) at the Former Building 728 Site, Facility ID #9-025049



Figure 11. Groundwater Potentiometric Surface Map (February 2002) at the Former Building 728 Site, Facility ID #9-025049





Figure 13. Groundwater Potentiometric Surface Map (April 2002) at the Former Building 728 Site, Facility ID #9-025049





Figure 15. Groundwater Potentiometric Surface Map (June 2002) at the Former Building 728 Site, Facility ID #9-025049





Figure 16a. Trend of Benzene Concentrations in Groundwater at the Former Building 728 Site, Facility ID #9-025049





Figure 16b. Trend of Benzene Concentrations in Groundwater at the Former Building 728 Site, Facility ID #9-025049



Figure 16c. Trend of Benzene Concentrations in Groundwater at the Former Building 728 Site, Facility ID #9-025049

APPENDIX II

TABLES

		Boring	Screened		Coordinate	es (NAD 83)	Elevation (NAVD 88)		
Boring	Date	Depth	Interval	Type of			Ground	Top of	
Number	Installed	(feet BGS)	(feet BGS)	Completion	Northing	Easting	Surface	Casing	
				luct Delineation I					
D1	05/06/99	12.5	2.0 - 12.0	3/4-inch PVC	740054.93	976051.27	19.7	20.07	
D2	05/06/99	12.5	2.0 - 12.0	3/4-inch PVC	740050.53	976070.34	19.3	19.60	
D3	05/06/99	12.5	2.0 - 12.0	3/4-inch PVC	740050.07	976089.18	19.4	19.69	
D4	05/06/99	12.5	2.0 - 12.0	3/4-inch PVC	740046.22	976107.88	19.4	19.66	
D5	05/06/99	12.5	2.0 - 12.0	3/4-inch PVC	740037.25	976028.69	19.5	19.88	
D6	05/06/99	12.5	2.0 - 12.0	3/4-inch PVC	740034.06	976047.99	19.3	19.66	
D7	05/05/99	13.0	2.0 - 12.0	3/4-inch PVC	740030.52	976086.58	19.0	19.35	
D8	05/05/99	13.0	2.0 - 12.0	3/4-inch PVC	740027.93	976103.98	19.3	19.60	
D9	05/06/99	12.5	2.0 - 12.0	3/4-inch PVC	740025.75	976125.99	19.7	20.02	
D10	05/06/99	12.5	2.0 - 12.0	3/4-inch PVC	740017.47	976027.72	19.2	19.57	
D11	05/06/99	12.5	2.0 - 12.0	3/4-inch PVC	740014.16	976047.52	19.2	19.57	
D12	05/06/99	12.5	2.0 - 12.0	3/4-inch PVC	740011.86	976065.41	18.8	19.14	
D13	05/05/99	12.9	2.0 - 12.0	3/4-inch PVC	740011.61	976083.60	18.7	19.02	
D14	05/05/99	13.0	2.0 - 12.0	3/4-inch PVC	740007.57	976102.71	19.2	19.57	
D15	05/06/99	13.0	2.0 - 12.0	3/4-inch PVC	740003.89	976121.23	20.0	20.41	
D16	05/06/99	12.5	2.0 - 12.0	3/4-inch PVC	739997.75	976022.32	18.8	19.13	
D17	05/06/99	12.5	2.0 - 12.0	3/4-inch PVC	739995.73	976044.19	18.9	19.22	
D18	05/06/99	12.5	2.0 - 12.0	3/4-inch PVC	739993.17	976061.28	18.8	19.18	
D19	05/06/99	12.5	2.0 - 12.0	3/4-inch PVC	739991.20	976080.98	18.8	19.13	
D20	05/06/99	12.5	2.0 - 12.0	3/4-inch PVC	739976.07	976020.55	18.5	18.90	
D21	05/06/99	13.0	2.0 - 12.0	3/4-inch PVC	739971.67	976078.73	18.8	19.23	
D22	05/07/99	12.5	2.0 - 12.0	3/4-inch PVC	740069.38	976068.43	19.9	20.30	
D23	05/08/99	13.0	2.5 - 12.5	3/4-inch PVC	739999.74	976010.69	18.7	19.07	
D24	05/08/99	12.5	2.5 - 12.5	3/4-inch PVC	739977.16	976049.24	18.5	18.84	
				ygen Injection Pa					
J1	05/04/99	15.5	14.5 - 15.5	3/4-inch PVC	740104.80	975939.61	18.8	19.34	
J2	05/04/99	15.5	14.5 - 15.5	3/4-inch PVC	740077.21	975968.34	19.2	19.83	
J3	05/04/99	15.5	14.5 - 15.5	3/4-inch PVC	740090.75	975981.69	19.4	20.04	
J4	05/04/99	15.5	14.5 - 15.5	3/4-inch PVC	740105.14	975995.76	19.4	19.94	
J5	05/05/99	15.5	14.5 - 15.5	3/4-inch PVC	740050.31	975998.13	19.5	20.04	
J6	05/05/99	15.5	14.5 - 15.5	3/4-inch PVC	740064.10	976011.06	19.7	20.32	
J7	05/05/99	15.5	14.5 - 15.5	3/4-inch PVC	740079.00	976025.13	19.9	20.49	
J8	05/05/99	15.5	14.5 - 15.5	3/4-inch PVC	740092.29	976038.25	19.8	20.41	
J9	05/05/99	15.5	14.5 - 15.5	3/4-inch PVC	740014.69	976013.41	19.0	19.55	
J10	05/05/99	15.5	14.5 - 15.5	3/4-inch PVC	740028.91	976029.17	19.4	19.91	
J11	05/05/99	15.5	14.5 - 15.5	3/4-inch PVC	740040.97	976044.44	19.5	20.11	
J12	05/06/99	15.5	14.5 - 15.5	3/4-inch PVC	740053.18	976061.26	19.2	19.73	
J13	05/06/99	15.5	14.5 - 15.5	3/4-inch PVC	740065.56	976075.42	20.0	20.49	
J14	05/06/99	15.5	14.5 - 15.5	3/4-inch PVC	739969.84	976025.51	18.8	19.29	
J15	05/06/99	15.5	14.5 - 15.5	3/4-inch PVC	739982.53	976040.17	18.7	19.13	
J16	05/06/99	15.5	14.5 - 15.5	3/4-inch PVC	739995.29	976056.95	18.9	19.38	
J17	05/06/99	15.5	14.5 - 15.5	3/4-inch PVC	740008.13	976071.76	18.8	19.32	
J18	05/06/99	15.5	14.5 - 15.5	3/4-inch PVC	740020.77	976085.46	18.9	19.43	
J19	05/06/99	15.5	14.0 - 15.0	3/4-inch PVC	740033.25	976101.09	19.3	19.74	
J20	05/07/99	15.0	14.0 - 15.0	3/4-inch PVC	740048.06	976117.43	19.8	20.27	
J21	05/07/99	13.0	11.2 - 12.2	3/4-inch PVC	739952.01	976066.51	18.7	19.18	
J22	05/07/99	13.0	11.5 - 12.5	3/4-inch PVC	739966.45	976081.80	18.9	19.37	
J23	05/07/99	14.0	12.5 - 13.5	3/4-inch PVC	739979.58	976097.09	19.2	19.64	
J24	05/07/99	15.0	14.0 - 15.0	3/4-inch PVC	739991.47	976110.47	19.5	19.99	
J25	12/04/00	15.0	13.9 - 14.9	3/4-inch PVC	740076.54	976090.02		—	

Table 1. Well Construction Details

NOTES:

BGS PVC Below ground surface Polyvinyl chloride

		Boring	Screened		Coordinate	s (NAD 83)	Elevation (NAVD 88)		
Boring	Date	Depth	Interval	Type of			Ground	Top of	
Number	Installed	(feet BGS)	(feet BGS)	Completion	Northing	Easting	Surface	Casing	
J26	12/04/00	15.0	13.9 - 14.9	3/4-inch PVC	740054.12	976096.40			
J27	12/04/00	15.0	13.9 – 14.9	3/4-inch PVC	740041.89	976075.82			
				Observation Point	ts				
P1	05/06/99	12.6	2.5 - 12.5	3/4-inch PVC	740097.33	975961.13	19.0	19.42	
P2	05/07/99	12.6	2.5 - 12.5	3/4-inch PVC	740073.70	976044.53	20.0	20.34	
P3	05/07/99	12.6	2.5 - 12.5	3/4-inch PVC	740072.60	975987.25	19.5	19.91	
P4	05/07/99	12.5	2.0 - 12.0	3/4-inch PVC	740044.16	976010.15	19.4	19.79	
P5	05/08/99	13.0	2.5 - 12.5	3/4-inch PVC	739965.59	976102.85	19.5	19.84	
				Vapor Test Point	5				
V1	05/06/99	12.3	2.2 - 12.2	3/4-inch PVC	739822.95	976270.18	19.3	19.54	
V2	05/07/99	12.2	2.1 - 12.1	3/4-inch PVC	739806.61	976282.91	19.3	19.20	
VW-1	05/09/99	12.3	11.8 - 11.8	3/4-inch PVC	739818.57	976268.30	19.4	19.29	
VEW-1	05/17/99	6.0	2.0 - 6.0	3/4-inch PVC	739816.06	976264.79	19.4	19.60	
P-1	05/17/99	6.0	2.0 - 6.0	3/4-inch PVC	739816.70	976261.58	19.3	20.02	
P-2	05/17/99	6.0	2.0 - 6.0	3/4-inch PVC	739817.27	976259.08	19.3	20.22	
				oduct Recovery W					
MW8A	06/02/99	14.5	4.0 - 14.0	2-inch PVC	740034.10	976071.08	19.0	18.67	
PR-1	06/02/99	14.5	3.6 – 13.6	2-inch PVC	740026.22	976090.39	18.9	18.64	
PR-2	06/02/99	14.5	4.0 - 14.0	2-inch PVC	740008.71	976055.87	18.9	18.54	
PR-3	10/09/99	18.0	2.0 - 17.0	2-inch PVC	740000.94	976026.62	18.9	18.68	
PR-4	10/09/99	18.0	2.0 - 17.0	2-inch PVC	740020.46	976024.53	19.1	19.01	
PR-5	10/09/99	18.0	2.0 - 17.0	2-inch PVC	740036.19	976043.98	19.4	19.11	
PR-6	04/07/01	13.0	2.5 - 12.5	2-inch PVC	740050.15	976089.18	19.4	19.13	
PR-7	04/07/01	15.0	3.0 - 13.0	2-inch PVC	740015.50	976029.74	19.2	18.97	
		CAP-Par	t B Monitorin	ng Wells (utilized a	luring correct	ive action)		_	
MW6	1996	~13.0	2.9 - 12.9	2-inch PVC	739964.64	976156.50	19.6	19.40	
MW8	1996	~13.5	3.5 – 13.5	2-inch PVC	740030.55	976072.57	19.0	18.58	
MW11	1996	~12.5	2.3 - 12.3	2-inch PVC	740111.90	975940.19	18.4	18.09	
MW59	02/26/97	14.0	2.0 - 12.0	2-inch PVC	739989.17	976041.23	18.8	18.61	
MW60	02/26/97	15.0	3.0 - 13.0	2-inch PVC	740059.72	976042.02	19.9	19.70	
MW61	02/26/97	15.0	3.0 - 13.0	2-inch PVC	740068.72	976079.81	20.0	19.73	
MW63	02/26/97	15.0	4.0 - 14.0	2-inch PVC	740090.82	976009.04	19.7	19.55	
MW64	02/27/97	15.0	3.0 - 13.0	2-inch PVC	740011.54	975983.20	18.4	18.18	

Table 1. Well Construction Details (continued)

NOTES: BGS PVC

Below ground surface Polyvinyl chloride

						Ethyl-		Total	
Sample	Sample	Depth	Date	Benzene	Toluene	benzene	Xylenes	BTEX	ТРН
Location	ID	(feet BGS)	Sampled	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
		Product D	elineation P	oints –- Pre-P	ilot Study Ba	seline Results	- May 1999		
D1	AED111	7.2 - 8.2	05/06/99	0.206 J	0.181 J	0.297 J	0.952 U	0.684	15.2 U
D3	AED311	7.0 - 8.0	05/06/99	0.111 J	0.078 =	0.651 =	2.58 =	3.42	12.4 U
D4	AED411	8.0 - 9.1	05/06/99	0.0718 J	0.128 J	0.281 J	0.512 J	0.993	13.5 J
D5	AED511	6.9 - 8.9	05/06/99	0.161 J	0.518 =	0.0791 =	0.38 J	1.1381	48.4 J
D10	AEDA11	7.0 - 8.0	05/06/99	0.625 =	9.76 =	4.52 =	23.2 =	38.105	25.7 =
D13	AEDD11	8.0 - 8.8	05/05/99	0.0019 U	0.0019 U	0.0019 U	0.0052 U	ND	68.6 =
D15	AEDF11	8.0 - 8.8	05/06/99	0.0144 J	0.0057 J	0.643 J	0.283 J	0.9461	701 =
D17	AEDK11	7.0 - 8.0	05/06/99	0.0098 =	0.0019 U	0.0045 =	0.005 U	0.0143	12.8 J
D18	AEDL11	10.0 - 10.7	05/06/99	0.0016 J	0.0086 =	0.0104 =	0.0466 =	0.0672	11.8 U
D21	AEDM11	8.0 - 8.5	05/06/99	0.0019 U	0.0019 U	0.0019 U	0.0048 U	ND	22.8 =
D6	AED611	7.1 - 8.1	05/06/99	а	а	а	а	а	469 =
D7	AED711	8.0 - 9.0	05/06/99	а	а	а	а	а	2,000 =
D8	AED811	8.0 - 9.0	05/06/99	а	а	а	а	а	769 =
D9	AED911	4.5 - 6.5	05/06/99	а	а	а	а	а	405 =
D11	AEDB11	6.5 – 7.5	05/06/99	а	а	а	а	а	621 =
D12	AEDC11	7.8 - 8.8	05/06/99	а	а	а	а	а	127 =
D14	AEDE11	8.0 - 8.6	05/06/99	а	а	а	а	а	92.2 =
D16	AEDG11	6.2 - 7.2	05/06/99	а	а	а	а	а	578 =
		Obser	rvation Point	s – Pre-Pilot S	Study Baselin	e Results – M	ay 1999		
P1	AEP111	4.0 - 6.0	05/07/99	0.002 U	0.002 U	0.002 U	0.003 U	ND	119 =
P2	AEP211	4.0 - 6.0	05/07/99	0.0032 U	0.0032 U	0.0032 U	0.0049 U	ND	59.5 =
P3	AEP311	5.0 - 6.0	05/07/99	0.002 U	0.002 U	0.002 U	0.003 U	ND	1.61 U
P4	AEP411	5.4 - 6.4	05/07/99	0.0022 U	0.0022 U	0.0022 U	0.0032 U	ND	66.1 =
P5	AEP511	4.0 - 6.0	05/08/99	0.0028 U	0.0028 U	0.0028 U	0.0012 J	0.0012	105 =
		Vapo	or Test Wells	– Pre-Pilot S	tudy Baseline	Results – Ma	y 1999		
V1	AEV111	8.0 - 9.3	05/06/99	0.0052 J	0.0046 J	0.520 =	0.157 J	0.6868	Ь
V2	AEV211	8.0 - 9.2	05/07/99	0.0069 J	0.0010 J	0.0783 J	0.148 J	0.2342	Ь
VW-1	AEVW11	5.0 - 7.0	05/09/99	0.0219 J	0.0020 U	0.721 J	1.16 J	1.9029	b
6	GUST Soil 7	Threshold Le	vels	0.005	0.27	0.40	20	NDC	NDC
	(Table A	, Column 1)		0.005	0.37	0.40	20	NRC	NRC
	Alternate T	hreshold Lev	els	0.012	58.5	11.1	20		
NOTES.				0.0					

Table 2. Soil Analytical Results

NOTES:

Bold values exceed GUST soil threshold levels (Table A, Column 1).

Italic values exceed alternate threshold levels (Appendix VI).

Samples were analyzed for TPH only.

- ^b Samples were also analyzed for SVOCs, TPH-DRO, and TPH-GRO, with the results presented in Appendix V.
- BGS Below ground surface
- BTEX Benzene, toluene, ethylbenzene, and xylenes
- DRO Diesel-range organics
- GRO Gasoline-range organics
- GUST Georgia Underground Storage Tank
- ND Not detected
- NRC No regulatory criteria
- SVOC Semivolatile organic compound
- TPH Total petroleum hydrocarbons

Laboratory Qualifiers

U Indicates that the compound was not detected above the reported sample quantitation limit.

UJ Indicates that the compound was not detected above an approximated sample quantitation limit.

- J Indicates that the value for the compound was an estimated value.
- = Indicates that the compound was detected at the concentration reported.

Screened									
Sample		Interval	Date	Benzene	Toluene	Ethylbenzene	Xylenes	Total BTEX	
Location	Sample ID	(feet BGS)	Sampled	(μ g/L)					
	<u> </u>		CAP-Part B	Investigation	a – March 199	97		·	
MW1	MW0102	3.2 - 13.2	03/31/97	1 U	1 U	1 U	2 U	ND	
MW2	MW0202	3.8 - 13.8	03/31/97	1 U	1 U	1 U	2 U	ND	
MW3	MW0302	2.6 - 12.6	03/31/97	4.2 =	1 U	5.3 =	2 U	9.5	
MW5	MW0502	3.3 - 13.3	03/31/97	1 U	1 U	1 U	2 U	ND	
MW6	MW0602	2.9 - 12.9	04/01/97	24 =	6.4 =	54 =	27 =	111.4	
MW9	MW0902	3.1 – 13.1	03/31/97	1 U	1 U	1 U	2 U	ND	
MW10	MW1002	2.9 - 12.9	03/31/97	1 U	1 U	1 U	2 U	ND	
MW11	MW1102	2.3 - 12.3	04/01/97	1,700 =	600 =	380 =	2,300 =	4,980	
MW12	MW1202	2.9 - 12.9	04/01/97	56 J	28 J	40 J	50 UJ	124	
MW13	MW1302	4.0 - 14.0	04/01/97	1.4 =	1 U	1 U	2 U	1.4	
MW14	MW1402	4.0 - 14.0	04/01/97	1 U	1 U	1 U	2 U	ND	
MW55	MW5501	2.0 - 12.0	03/31/97	1 U	1 U	1 U	2 U	ND	
MW56	MW5601	1.4 - 11.4	03/31/97	17 =	3.3 =	9.1 =	34 =	63.4	
MW57	MW5701	2.0 - 12.0	03/31/97	24 =	49 =	40 =	170 =	283	
MW58	MW5801	2.0 - 12.0	03/31/97	41 J	11 J	16 J	94 J	162	
MW60	MW6001	3.0 - 13.0	04/01/97	1,400 =	290 =	280 =	1,600 =	3,570	
MW61	MW6101	3.0 - 13.0	04/01/97	910 J	25 UJ	140 J	760 J	1,810	
MW63	MW6001	4.0 - 14.0	04/01/97	2,400 =	300 =	460 =	2,000 =	5,160	
MW64	MW6101	3.0 - 13.0	04/01/97	81 =	50 =	36 =	320 =	487	
MW65	MW6001	3.0 - 13.0	04/01/97	1 U	1 U	1 U	2 U	ND	
MW66	MW6101	35.6 - 40.6	04/01/97	1 U	1 U	1 U	2 U	ND	
MW67	MW6001	33.0 - 38.0	04/01/97	1 U	1 U	1 U	2 U	ND	
				y Baseline Re					
MW6	AE0612	2.9 - 12.9	05/10/99	2.1 J	2 U	2 U	3 U	2.1	
MW11	AE1112	4.0 - 14.0	05/10/99	256 =	21.1 =	32.1 =	197 =	506.2	
MW60	AE6012	3.0 - 13.0	05/10/99	1,610 =	122 =	300 =	1,330 =	3,362	
MW61	AE6112	3.0 - 13.0	05/10/99	612 =	15 J	121 =	465 =	1,213	
MW63	AE6312	4.0 - 14.0	05/10/99	1,310 =	113 =	154 =	710 =	2,287	
MW64	AE6412	3.0 - 13.0	05/10/99	107 =	170 =	73.3 =	706 =	1,056.3	
D1	AED112	2.0 - 12.0	05/10/99	1,460 =	111 =	284 =	725 =	2,580	
D3	AED312	2.0 - 12.0	05/10/99	2,580 J	853 =	521 =	1,480 =	5,434	
D4	AED412	2.0 - 12.0	05/10/99	288 =	76.4 =	89.5 =	211 =	664.9	
D21	AEDM12	2.0 - 12.0	05/10/99	251 =	8.3 J	784 =	2,340 =	3,383.3	
P1	AEP112	2.5 - 12.5	05/07/99	1,890 =	2,390 =	344 =	2,100 =	6,724	
P2	AEP212	2.5 - 12.5	05/07/99	2,510 =	2,070 =	447 =	1,980 =	7,007	
P3	AEP312	2.5 - 12.5	05/07/99	2,600 =	4,250 =	578 =	3,360 =	10,788	
P4	AEP412	2.0 - 12.0	05/07/99	823 =	1,950 =	237 =	1,510 =	4,520	
P5	AEP512	2.5 - 12.5	05/08/99	7.2 J	10 U	208 =	600 =	745.8	
In		r Quality Standa hapter 391-3-6)	ard	71.28	200,000	28,718	NRC	NRC	
	Alternate Con	centration Limi	t	78			_		

Table 3. Groundwater Analytical Results

NOTES:

Bold values exceed In-Stream Water Quality Standard.

Italic values exceed alternate concentration limit.

BGS Below ground surface

BTEX Benzene, toluene, ethylbenzene, and xylenes

GA EPD Georgia Environmental Protection Division

ND Not detected

NRC No regulatory criteria

Laboratory Qualifiers

U Indicates that the compound was not detected above the reported sample quantitation limit.

UJ Indicates that the compound was not detected above an approximated sample quantitation limit.

J Indicates that the value for the compound was an estimated value.

= Indicates that the compound was detected at the concentration reported.

Sample Location	Sample ID	Screened Interval (feet BGS)	Date Sampled	Benzene (µg/L)	Toluene (μg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	Total BTEX (µg/L)
		· · · ·		npling Event				
MW6	AE0622	2.9 - 12.9	06/15/99	3.7 =	0.56 J	3.5 =	1.9 J	9.66
MW11	AE1122	4.0 - 14.0	06/15/99	114 =	17.2 =	4.7 =	37.1 =	173
MW60	AE6022	3.0 - 13.0	06/15/99	2,360 =	180 =	411 =	1,900 =	4,851
MW61	AE6122	3.0 - 13.0	06/15/99	5.2 =	2 U	0.73 J	7.6 =	13.53
MW63	AE6322	4.0 - 14.0	06/15/99	1,960 =	226 =	245 =	1,140 =	3,571
MW64	AE6422	3.0 - 13.0	06/15/99	149 =	183 =	90.5 =	814 =	1,236.5
D1	AED122	2.0 - 12.0	06/15/99	58.5 =	2 U	3.7 =	16.7 =	78.9
D3	AED322	2.0 - 12.0	06/15/99	3,180 =	1,300 =	1,150 =	3,320 =	8,950
D4	AED422	2.0 - 12.0	06/15/99	104 =	50.3 =	25.5 =	126 =	305.8
D21	AEDM22	2.0 - 12.0	06/15/99	9.7 =	1.4 J	49.6 =	106 =	166.7
P1	AEP122	2.5 - 12.5	06/15/99	2,420 =	4,660 =	523 =	2,790 =	10,393
P2	AEP222	2.5 - 12.5	06/15/99	3,370 =	3,400 =	709 =	3,120 =	10,599
P3	AEP322	2.5 - 12.5	06/15/99	3,200 =	6,720 =	789 =	4,430 =	15,139
P4	AEP422	2.0 - 12.0	06/15/99	2,010 =	4,750 =	708 =	4,490 =	11,958
P5	AEP522	2.5 - 12.5	06/15/99	3 J	10 U	534 =	1,720 =	2,257
			Second	ampling Even	t – July 1999			
MW6	AE0632	2.9 - 12.9	07/08/99	9.6 =	2 U	29.6 =	6 U	39.2
MW11	AE1132	4.0 - 14.0	07/08/99	0.82 J	2 U	2 U	6 U	2.82
MW60	AE6032	3.0 - 13.0	07/08/99	3,260 =	197 =	531 =	2,720 =	6,708
MW61	AE6132	3.0 - 13.0	07/08/99	1.1 J	0.56 J	2 U	1.3 J	2.96
MW63	AE6332	4.0 - 14.0	07/08/99	648 =	88.1 =	135 =	523 =	1,394.1
MW64	AE6432	3.0 - 13.0	07/08/99	85.4 =	154 =	72.3 =	624 =	935.7
D1	AED132	2.0 - 12.0	07/08/99	62.7 =	5 =	10.9 =	51.3 =	129.9
D3	AED332	2.0 - 12.0	07/08/99	3,430 =	3,830 =	1,250 =	4,460 =	12,970
D4	AED432	2.0 - 12.0	07/08/99	111 J	612 =	533 =	3180 =	4,436
D21	AEDM32	2.0 - 12.0	07/08/99	2 U	0.95 J	0.87 J	3.1 J	6.92
P1	AEP132	2.5 - 12.5	07/08/99	1,770 =	3,820 =	402 =	2,050 =	8,042
P2	AEP232	2.5 - 12.5	07/08/99	2,540 =	1,600 =	565 =	2,170 =	6,875
P3	AEP332	2.5 - 12.5	07/08/99	3,150 =	8,020 =	1,030 =	5,090 =	17,290
P4	AEP432	2.0 - 12.0	07/08/99	1,990 =	6,080 =	789 =	4,610 =	13,469
P5	AEP532	2.5 - 12.5	07/08/99	2 U	0.62 J	9.2 =	27.9 =	37.72
In	In-Stream Water Quality Standard (GA EPD Chapter 391-3-6)				200,000	28,718	NRC	NRC
		centration Limi	t	78				

Table 3. Groundwater Analytical Results (continued)

NOTES:

Bold values exceed In-Stream Water Quality Standard.

Italic values exceed alternate concentration limit.

BGS Below ground surface

BTEX Benzene, toluene, ethylbenzene, and xylenes

GA EPD Georgia Environmental Protection Division

ND Not detected

NRC No regulatory criteria

Laboratory Qualifiers

U Indicates that the compound was not detected above the reported sample quantitation limit.

UJ Indicates that the compound was not detected above an approximated sample quantitation limit.

J Indicates that the value for the compound was an estimated value.

= Indicates that the compound was detected at the concentration reported.

Sample Location	Sample ID	Screened Interval (feet BGS)	Date Sampled	Benzene (µg/L)	Toluene (μg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	Total BTEX (µg/L)
	· <u> </u>		Third Sam	pling Event -	August 1999)		
MW6	AE0642	2.9 - 12.9	08/25/99	2 U	2 U	9.2 =	1.8 J	11
MW11	AE1142	4.0 - 14.0	08/25/99	13.7 =	2 U	1.3 J	10.1 =	25.1
MW60	AE6042	3.0 - 13.0	08/24/99	257 =	10 U	69.4 =	335 =	661.4
MW61	AE6142	3.0 - 13.0	08/25/99	33.1 =	0.56 J	4.4 =	11.2 =	49.26
MW63	AE6342	4.0 - 14.0	08/24/99	844 =	46.8 =	124 =	542 =	1,556.8
MW64	AE6442	3.0 - 13.0	08/24/99	19.8 =	0.71 J	21.9 =	109 =	151.41
D1	AED142	2.0 - 12.0	08/24/99	30.6 =	2 U	2 U	6 U	30.6
D3	AED342	2.0 - 12.0	08/24/99	3,460 =	2,330 =	1,530 =	4,550 =	11,870
D4	AED442	2.0 - 12.0	08/24/99	130 =	10 U	50.8 =	60.1 =	241
D21	AEDM42	2.0 - 12.0	08/24/99	2 U	2 U	0.62 J	0.86 J	1.48
P1	AEP142	2.5 - 12.5	08/24/99	1,770 =	3140 =	484 =	2,430 =	7,824
P2	AEP242	2.5 - 12.5	08/24/99	3,020 =	960 =	686 =	2,440 =	7,106
P3	AEP342	2.5 - 12.5	08/24/99	1,940 =	3,890 =	496 =	2,590 =	8,916
P4	AEP442	2.0 - 12.0	08/24/99	516 =	1,530 =	309 =	2,080 =	4,435
P5	AEP542	2.5 - 12.5	08/24/99	10 U	10 U	65.4 =	185 =	250.4
			Fourth Samp	oling Event –	September 19	99		
MW6	AE0652	2.9 - 12.9	09/29/99	2 U	2 U	4.1 =	6 U	4.1
MW11	AE1152	4.0 - 14.0	09/29/99	27 =	15.5 =	3.8 =	20.1 =	66.4
MW60	AE6052	3.0 - 13.0	09/29/99	98.2 =	1.4 J	62.8 =	130 =	292.4
MW61	AE6152	3.0 - 13.0	09/29/99	37.4 =	2 U	4.8 =	9.4 =	51.6
MW63	AE6352	4.0 - 14.0	09/29/99	2.4 =	2 U	2 U	0.85 J	3.25
MW64	AE6452	3.0 - 13.0	09/29/99	4 =	2 U	3.8 =	18.6 =	26.4
D1	AED152	2.0 - 12.0	09/29/99	2.7 =	2 U	2 U	6 U	2.7
D3	AED352	2.0 - 12.0	09/29/99	3,710 =	1,840 =	1,910 =	4,940 =	12,400
D4	AED452	2.0 - 12.0	09/29/99	1,360 =	22.6 =	220 =	263 =	1,865.6
D21	AEDM52	2.0 - 12.0	09/29/99	2 U	2 U	0.6 J	0.79 J	1.39
P1	AEP152	2.5 - 12.5	09/29/99	1,740 =	3,360 =	431 =	2,470 =	8,001
P2	AEP252	2.5 - 12.5	09/29/99	1,590 =	273 U	405 =	1,390 =	3,385
P3	AEP352	2.5 - 12.5	09/29/99	2,810 =	5,680 =	838 =	4,550 =	13,878
P4	AEP452	2.0 - 12.0	09/29/99	682 =	443 =	239 =	1,110 =	2,474
P5	AEP552	2.5 - 12.5	09/29/99	2 U	2 U	2.6 =	7.6 =	7.6
In	In-Stream Water Quality Standard (GA EPD Chapter 391-3-6)				200,000	28,718	NRC	NRC
	•	centration Limi	t	78				

Table 3. Groundwater Analytical Results (continued)

NOTES:

Bold values exceed in-stream water quality standard

Italic values exceed alternate concentration limit

BGS Below ground surface

BTEX Benzene, toluene, ethylbenzene, and xylene

ND Not detected

NRC No regulatory criteria

Laboratory Qualifiers

U Indicates that the compound was not detected above the reported sample quantitation limit.

UJ Indicates that the compound was not detected above an approximated sample quantitation limit.

J Indicates that the value for the compound was an estimated value.

= Indicates that the compound was detected at the concentration reported.
Sample		Screened Interval	Date	Benzene	Toluene	Ethylbenzene	Xylenes	Total BTEX
Location	Sample ID	(feet BGS)	Sampled	(µ g/L)	(µ g/L)	(μ g/L)	(µ g/L)	(μ g/L)
	nin	i		pling Event –			i	
MW6	AE0662	2.9 - 12.9	10/27/99	3.7 =	2 U	7.5 =	1.5 J	12.7
MW11	AE1162	4.0 - 14.0	10/27/99	2 U	2 U	0.55 J	0.53 J	1.08
MW60	AE6062	3.0 - 13.0	10/27/99	56.6 =	2 U	11.5 =	5.5 J	73.6
MW61	AE6162	3.0 - 13.0	10/27/99	46.9 =	8.7 =	7 =	14.6 =	77.2
MW63	AE6362	4.0 - 14.0	10/27/99	715 =	50 U	54.7 =	154 =	923.7
MW64	AE6462	3.0 - 13.0	10/27/99	2.2 =	2 U	2.9 =	21 =	26.1
D1	AED162	2.0 - 12.0	10/27/99	1,650 =	928 =	316 =	2,140 =	5,034
D3	AED362	2.0 - 12.0	10/27/99	3,760 =	2,680 =	2,070 =	6,020 =	14,530
D4	AED462	2.0 - 12.0	10/27/99	2,320 =	50 U	369 =	294 =	2,983
D21	AEDM62	2.0 - 12.0	10/27/99	1.3 J	1.6 J	1.9 J	3.3 J	8.1
P1	AEP162	2.5 - 12.5	10/27/99	0.78 J	2 U	2 U	0.84 J	1.62
P2	AEP252	2.5 - 12.5	10/27/99	977 =	70.9 =	192 =	698 =	1,937.9
P3	AEP362	2.5 - 12.5	10/27/99	2,090 =	3,180 =	632 =	4,120 =	10,022
P4	AEP462	2.0 - 12.0	10/27/99	11.5 =	37 =	40.4 =	216 =	304.9
P5	AEP552	2.5 - 12.5	10/27/99	1.1 J	2 U	6.6 =	17.6 =	25.3
			Sixth Samp	ling Event – l	December 199	19		
MW6	AE0672	2.9 - 12.9	12/01/99	3.8 J	2 UJ	12.2 J	2.6 J	18.6
MW11	AE1172	4.0 - 14.0	12/01/99	5.6 =	2 U	2 U	0.52 J	6.12
MW60	AE6072	3.0 - 13.0	12/01/99	40.8 =	2 U	2.3 =	1.2 J	44.3
MW61	AE6172	3.0 - 13.0	12/01/99	773 =	18.6 =	106 =	241 =	1,138.6
MW63	AE6372	4.0 - 14.0	12/01/99	184 =	4 U	2.7 J	57.8 =	244.5
MW64	AE6472	3.0 - 13.0	12/01/99	1 J	2 U	0.74 J	8.2 =	9.94
D1	AED172	2.0 - 12.0	12/01/99	1.2 J	2 U	2 U	0.56 J	1.76
D3	AED372	2.0 - 12.0	12/01/99	3,700 =	2,950 =	1,770 =	5,710 =	14,130
D4	AED472	2.0 - 12.0	12/01/99	672 =	7.5 J	26.9 =	21.6 J	728
D21	AEDM72	2.0 - 12.0	12/01/99	1.3 J	2 U	3 =	0.52 J	4.82
P1	AEP172	2.5 - 12.5	12/01/99	576 =	72.7 =	103 =	542 =	1,293.7
P2	AEP272	2.5 - 12.5	12/01/99	586 =	97.6 =	204 =	766 =	1,653.6
P3	AEP372	2.5 - 12.5	12/01/99	523 =	1,010 =	295 =	2,050 =	3,878
P4	AEP472	2.0 - 12.0	12/01/99	5.3 =	2.6 =	10.7 =	39.3 =	57.9
P5	P5 AEP572 2.5 – 12.5 12/01/99				0.59 J	17.4 =	62 =	83.19
	In-Stream Water Quality Standard			3.2 = 71.28				
	(GA EPD Chapter 391-3-6)				200,000	28,718	NRC	NRC
	Alternate Con	centration Limi	t	78				

NOTES:

Bold values exceed In-Stream Water Quality Standard.

Italic values exceed alternate concentration limit.

BGS Below ground surface

BTEX Benzene, toluene, ethylbenzene, and xylenes

GA EPD Georgia Environmental Protection Division

ND Not detected

NRC No regulatory criteria

Laboratory Qualifiers

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J Indicates that the value for the compound was an estimated value.

Sample Location	Sample ID	Screened Interval (feet BGS)	Date Sampled	Benzene (µg/L)	Toluene (μg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	Total BTEX (µg/L)
			Seventh San	npling Event -	- January 20	00		
MW6	AE0682	2.9 - 12.9	01/04/00	25.1 J	1 UJ	0.88 J	2.2 J	29.18
MW11	AE1182	4.0 - 14.0	01/04/00	48 =	27.3 =	25.9 =	144 =	245.2
MW60	AE6082	3.0 - 13.0	01/04/00	8 =	1 U	6.7 =	3.6 =	18.3
MW61	AE6182	3.0 - 13.0	01/04/00	1,410 =	14.8 U	180 =	346 =	1,936
MW63	AE6382	4.0 - 14.0	01/04/00	78.8 =	1 U	0.44 J	14.8 =	94.04
MW64	AE6482	3.0 - 13.0	01/04/00	1 =	1 U	0.37 J	8.7 =	10.07
D1	AED182	2.0 - 12.0	01/04/00	7 J	1 UJ	0.14 J	3 UJ	7.14
D3	AED382	2.0 - 12.0	01/04/00	2,210 J	1,150 J	1,010 J	3,180 J	7,550
D4	AED482	2.0 - 12.0	01/04/00	821 J	2 UJ	113 J	137 J	1,071
D21	AEDM82	2.0 - 12.0	01/04/00	0.2 J	1 U	0.47 J	1 J	1.67
P1	AEP182	2.5 - 12.5	01/04/00	146 J	3.8 UJ	40 J	152 J	338
P2	AEP282	2.5 - 12.5	01/04/00	324 J	100 UJ	120 J	403 J	847
P3	AEP382	2.5 - 12.5	01/04/00	168 J	206 J	116 J	573 J	1,063
P4	AEP482	2.0 - 12.0	01/04/00	1.2 J	1.2 UJ	2.2 J	22.4 J	25.8
P5	AEP582	2.5 - 12.5	01/04/00	2.3 J	5 U	273 =	679 =	954.3
			Eighth San	npling Event	– March 2000)		
MW6	AE0692	2.9 - 12.9	03/28/00	2.4 =	1 U	2.5 U	4 U	2.4
MW11	AE1192	4.0 - 14.0	03/28/00	1 U	1 U	1 U	3.7 U	ND
MW60	AE6092	3.0 - 13.0	03/28/00	1 U	1 U	1.6 U	4.4 U	ND
MW61	AE6192	3.0 - 13.0	03/28/00	1,160 =	140 U	213 U	580 U	1,160
MW63	AE6392	4.0 - 14.0	03/28/00	<i>198 =</i>	1 U	6.8 U	52.2 U	198
D1	AED192	2.0 - 12.0	03/28/00	3.7 =	20.6 =	6.3 U	60.7 U	24.3
D3	AED392	2.0 - 12.0	03/28/00	1,820 =	1,590 =	1,250 =	5,280 =	9,940
D4	AED492	2.0 - 12.0	03/28/00	532 =	9.4 =	78.2 =	2,860 =	3,479.6
D6	AED692	2.0 - 12.0	03/28/00	958 =	9,350 =	2,510 =	16,700 =	29,518
D10	AED092	2.0 - 12.0	03/28/00	538 =	2,820 =	578 =	5,780 =	9,716
D17	AEDG92	2.0 - 12.0	03/28/00	114 J	1,550 =	1,320 =	9,840 =	12,824
P1	AEP192	2.5 - 12.5	03/28/00	85.1 =	1 U	4.9 U	67.5 U	85.1
P2	AEP292	2.5 - 12.5	03/28/00	41.4 =	4.3 U	34.2 =	191 =	266.6
P3	AEP392	2.5 - 12.5	03/28/00	98.1 = 1 U	1 U	12.8 =	198 =	308.9
P4					1 U	1.6 U	7.8 U	ND
In	In-Stream Water Quality Standard (GA EPD Chapter 391-3-6)			71.28	200,000	28,718	NRC	NRC
	Alternate Con	centration Limi	t	78				

NOTES:

Due to the continuing nondetects in MW64, D19, and P5, sampling was discontinued in these wells in March 2000 in lieu of samples collected from D6, D10, and D17, which are located in the area in which free product recovery is taking place. Bold values exceed In-Stream Water Quality Standard.

Italic values exceed alternate concentration limit.

BGS Below ground surface

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Sample Location	Sample ID	Screened Interval (feet BGS)	Date Sampled	Benzene (µg/L)	Toluene (μg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	Total BTEX (µg/L)
Location	Sumple ID	(1001 D00)		mpling Event		(μg/L)	(μg/L)	(µg/L)
MW6	AE0602	2.9 - 12.9	05/23/00	5.2 =	0.43 J	7.1 =	3.3 =	16.03
MW11	AE0002 AE1102	$\frac{2.9 - 12.9}{4.0 - 14.0}$	05/23/00	<u> </u>	<u> </u>	1 U	0.23 J	0.23
MW60	AE6002	4.0 - 14.0 3.0 - 13.0	05/23/00	2.3 =	1 U	0.44 J	1.2 J	3.94
MW61	AE6102	3.0 - 13.0 3.0 - 13.0	05/23/00	2.3 = 2,010 J	152 =	584 =	1.2 J 1,640 =	4,386
MW63	AE6302	$\frac{3.0 - 13.0}{4.0 - 14.0}$	05/23/00	53.4 =	132 = 1 U	0.69 J	1,040 = 13.2 =	67.29
D1	AED102	2.0 - 12.0	05/23/00	8.3 =	1 U	0.52 J	4.1 =	12.92
D1 D3	AED302	2.0 - 12.0 2.0 - 12.0	05/23/00	671 =	130 =	422 =	2,040 =	3,263
D3	AED402	2.0 - 12.0 2.0 - 12.0	05/23/00	541 J	13.0 =	64.5 =	2,040 =	901.3
D4 D6	AED602	2.0 - 12.0 2.0 - 12.0	05/23/00	1,320 J	1.160 J	573 =	4,300 J	7,353
D10	AED002	2.0 - 12.0	05/23/00	$\frac{1,520}{460} =$	2,160 J	360 =	4.110 =	7,090
D13	AEDG02	2.0 - 12.0	05/23/00	75.4 =	814 =	505 J	2,170 =	3,564.4
P1	AEP102	2.5 - 12.5	05/23/00	88.7 =	1 U	7.6 =	83.6 =	179.9
P2	AEP202	2.5 - 12.5	05/23/00	68.2 =	1.4 =	11 =	91.1 =	171.7
P3	AEP302	2.5 - 12.5	05/23/00	74.3 =	0.31 J	9.3 =	115 =	198.91
P4	AEP402	2.0 - 12.0	05/23/00	1 U	1 U	0.22 J	1.6 J	1.82
-			Tenth Sa	mpling Event	- July 2000			
MW6	AE06A2	2.9 - 12.9	07/19/00	5.8 =	0.43 J	8.8 =	4.3 =	19.33
MW11	AE11A2	4.0 - 14.0	07/19/00	2.2 =	0.52 J	1 U	3.3 =	6.02
MW60	AE60A2	3.0 - 13.0	07/19/00	2.7 =	1 U	1 U	1.6 J	4.3
MW61	AE61A2	3.0 - 13.0	07/19/00	912 =	149 =	249 =	679 =	1,989
MW63	AE63A2	4.0 - 14.0	07/19/00	27 =	1 U	1.1 =	9.2 =	37.3
D1	AED1A2	2.0 - 12.0	07/19/00	1 U	0.9 J	1.5 =	3.1 =	5.5
D3	AED3A2	2.0 - 12.0	07/21/00	87.8 =	23.7 =	182 =	361 =	654.5
D4	AED4A2	2.0 - 12.0	07/21/00	1.6 =	3.1 =	4.8 =	166 =	175.5
D6	AED6A2	2.0 - 12.0	07/21/00	149 =	85.1 =	73.8 =	2,210 =	2,517.9
D10	AED0A2	2.0 - 12.0	07/21/00	335 =	3,930 =	565 =	8,490 =	13,320
D17	AEDGA2	2.0 - 12.0	07/21/00	9.6 =	74.9 =	194 =	558 =	836.5
P1	AEP1A2	2.5 - 12.5	07/21/00	<i>94.9</i> =	1.2 =	13.6 =	130 =	239.7
P2	AEP2A2	2.5 - 12.5	07/21/00	24.3 =	8.7 =	4.1 =	49 =	86.1
P3	AEP3A2	2.5 - 12.5	07/21/00	46.2 =	2 =	7.4 =	133 =	188.6
P4				295 =	2.6 =	11.7 =	17.2 =	326.5
In	In-Stream Water Quality Standard (GA EPD Chapter 391-3-6)			71.28	200,000	28,718	NRC	NRC
		centration Limi	t	78				

NOTES:

Due to the continuing nondetects in MW64, D19, and P5, sampling was discontinued in these wells in March 2000 in lieu of samples collected from D6, D10, and D17, which are located in the area in which free product recovery is taking place. Bold values exceed In-Stream Water Quality Standard.

Italic values exceed alternate concentration limit.

BGS Below ground surface

- BTEX Benzene, toluene, ethylbenzene, and xylenes
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Sample Location	Sample ID	Screened Interval (feet BGS)	Date Sampled	Benzene (µg/L)	Toluene (μg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	Total BTEX (µg/L)
				pling Event -				4°8 /
MW6	AE06B2	2.9 – 12.9	09/26/00	2.6 =	1 U	6.1 =	1.7 J	10.4
MW11	AE11B2	4.0 - 14.0	09/26/00	0.3 J	1 U	1 U	0.15 J	0.45
MW60	AE60B2	3.0 - 13.0	09/26/00	1.2 =	1 U	0.4 J	0.46 J	2.06
MW61	AE61B2	3.0 - 13.0	09/26/00	4.5 =	13.2 =	2 =	11.7 =	31.4
MW63	AE63B2	4.0 - 14.0	09/26/00	3.3 =	1 U	0.61 J	3.7 =	7.61
D1	AED1B2	2.0 - 12.0	09/26/00	1.6 =	1 U	0.46 J	4.1 =	6.16
D3	AED3B2	2.0 - 12.0	09/26/00	660 J	540 J	579 J	1,730 J	3,509
D4	AED4B2	2.0 - 12.0	09/26/00	763 =	10 U	46.4 =	91.1 =	900.5
D6	AED6B2	2.0 - 12.0	09/26/00	742 =	367 =	195 =	2,410 =	3,714
D10	AED0B2	2.0 - 12.0	09/26/00	2,500 U	99,900 =	60,000 =	617,000 =	776,900
D17	AEDGB2	2.0 - 12.0	09/26/00	146 =	3,800 =	1,190 =	5,830 =	10,966
P1	AEP1B2	2.5 - 12.5	09/26/00	33.6 =	2.3 U	1.04 =	49.7 =	93.7
P2	AEP2B2	2.5 - 12.5	09/26/00	21.3 =	2 U	2.3 =	10.5 =	34.1
P3	AEP3B2	2.5 - 12.5	09/26/00	27 =	1 U	3 =	33.3 =	63.3
P4	AEP4B2	2.0 - 12.0	09/26/00	0.91 =	2 U	1.4 =	12.6 =	14.91
		Twel	fth Sampling	Event - Nove	mber/Decem	ber 2000		
MW60	AE60C2	3.0 - 13.0	12/01/00	6.5 =	1 U	0.18 J	0.38 J	7.06
MW61	AE61C2	3.0 - 13.0	12/01/00	38.6 =	16.3 =	52.2 =	167 =	274.1
MW63	AE63C2	4.0 - 14.0	12/01/00	0.56 J	1 U	1 U	0.38 J	0.94
D3	AED3C2	2.0 - 12.0	12/01/00	338 =	43.3 =	341 =	718 =	1,440.3
D4	AED4C2	2.0 - 12.0	12/01/00	545 =	10 U	62.2 =	64.9 =	672.1
D6	AED6C2	2.0 - 12.0	12/01/00	1,140 =	80.2 =	66.2 =	860 =	2,146.4
D7	AED7C2	2.0 - 12.0	12/01/00	633 =	10 =	870 =	1,010 =	2,523
D9	AED9C2	2.0 - 12.0	12/01/00	885 =	25 =	600 =	2,150 =	3,660
D10	AED0C2	2.0 - 12.0	12/01/00	67.2 =	985 =	167 =	7,570 =	8,789.2
D12	AEDBC2	2.0 - 12.0	12/01/00	15.9 =	1 U	2.2 =	4.8 =	22.9
D14	AEDDC2	2.0 - 12.0	12/01/00	87 =	0.72 J	96.8 =	113 =	297.52
D17	AEDGC2	2.0 - 12.0	12/01/00	4.6 =	54.5 =	29.7 =	269 =	357.8
D19	AEDJC2	2.0 - 12.0	12/01/00	108 J	0.7 J	18.9 =	23.8 =	151.4
P1	AEP1C2	2.5 - 12.5	12/01/00	1.2 =	1 U	0.28 J	1.6 J	3.08
P2	AEP2C2	2.5 - 12.5	12/01/00	6.2 =	1 U	0.81 J	3.4 =	10.41
P4	AEP4C2	2.0 - 12.0	12/01/00	3.3 =	1.9 =	1.4 =	5 =	11.6
In	In-Stream Water Quality Standard (GA EPD Chapter 391-3-6)			71.28	200,000	28,718	NRC	NRC
	Alternate Con	centration Limi	t	78				

NOTES:

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Sample Location	Sample ID	Screened Interval (feet BGS)	Date Sampled	Benzene (µg/L)	Toluene (μg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	Total BTEX (µg/L)
			Thirteenth Sa	mpling Event				
MW60	AE60D2	3.0 - 13.0	02/01/01	1.3 J	2 U	0.45 J	0.7 J	2.45
MW61	AE61D2	3.0 - 13.0	02/01/01	43.2 =	12.7 =	144 =	419 =	618.9
MW63	AE63D2	4.0 - 14.0	02/01/01	0.35 J	2 U	0.19 J	0.5 J	1.04
D3	AED3D2	2.0 - 12.0	02/01/01	66.4 J	2,280 =	443 =	7,950 =	10,739.4
D4	AED4D2	2.0 - 12.0	02/01/01	197 =	30.5 =	15.9 =	135 =	378.4
D6	AED6D2	2.0 - 12.0	02/01/01	157 =	11.5 =	42.4 =	500 =	710.9
D7	AED7D2	2.0 - 12.0	02/01/01	724 =	22.5 U	1,010 J	1,160 =	2,894
D9	AED9D2	2.0 - 12.0	02/01/01	1,180 =	50 U	884 =	2,910 =	4,974
D10	AED0D2	2.0 - 12.0	02/01/01	78 =	970 =	186 =	2,740 =	3,974
D12	AEDBD2	2.0 - 12.0	02/01/01	0.28 J	2 U	0.39 J	5 =	5.67
D14	AEDDD2	2.0 - 12.0	02/01/01	48.6 =	19.2 =	39.9 =	160 =	267.7
D17	AEDGD2	2.0 - 12.0	02/01/01	9.4 =	21.5 =	12.8 =	174 =	217.7
D19	AEDJD2	2.0 - 12.0	02/01/01	63.8 =	2 U	21.4 =	19.8 =	105
P1	AEP1D2	2.5 - 12.5	02/01/01	12.6 =	2 U	3.7 =	24.4 =	40.7
P2	AEP2D2	2.5 - 12.5	02/01/01	5.8 =	2 U	0.76 J	4.7 J	11.26
P4	AEP4D2	2.0 - 12.0	02/01/01	15.7 =	3.5 U	0.76 J	12.8 =	29.26
		_	Fourteenth	Sampling Eve	nt – April 20	01		
MW60	AE60E2	3.0 - 13.0	04/07/01	1.3 =	0.29 J	1 U	3 U	1.59
MW61	AE61E2	3.0 - 13.0	04/07/01	30.7 =	66 =	101 =	283 =	480.7
MW63	AE63E2	4.0 - 14.0	04/07/01	1 U	0.34 J	1 U	3 U	0.34
D3	AED3E2	2.0 - 12.0	04/08/01	21.8 =	2.7 =	64 =	108 =	196.5
D4	AED4E2	2.0 - 12.0	04/08/01	476 =	1.8 J	7.5 J	8.4 J	493.7
D6	AED6E2	2.0 - 12.0	04/08/01	235 =	8.5 J	25.7 =	211 =	480.2
D7	AED7E2	2.0 - 12.0	04/08/01	111 =	2.4 J	200 =	226 =	539.4
D9	AED9E2	2.0 - 12.0	04/07/01	443 =	14.9 =	500 =	1,940 =	2,897.9
D10	AED0E2	2.0 - 12.0	04/07/01	18.6 J	1,440 =	336 =	14,700 =	16,494.6
D12	AEDBE2	2.0 - 12.0	04/08/01	0.27 J	2 U	2 U	5 U	0.27
D14	AEDEE2	2.0 - 12.0	04/07/01	28.5 =	0.64 J	60 =	106 =	195.14
D17	AEDGE2	2.0 - 12.0	04/08/01	10.9 =	0.76 J	0.66 J	43.1 =	55.42
D19	AEDJE2	2.0 - 12.0	04/07/01	114 =	1.6 J	33.5 =	124 =	273.1
P1	AEP1E2	2.5 - 12.5	04/07/01	6.8 =	0.34 J	1.5 =	8.1 =	16.74
P2	AEP2E2	2.5 - 12.5	04/07/01	2.9 =	0.28 J	0.26 J	1.1 J	4.54
P4	AEP4E2	2.0 - 12.0	04/07/01	0.59 J	1 U	1 U	0.93 J	1.52
In	In-Stream Water Quality Standard (GA EPD Chapter 391-3-6)				200,000	28,718	NRC	NRC
		centration Limi	t	78	_			

NOTES:

Due to the continuing nondetects in MW64, D19, and P5, sampling was discontinued in these wells in March 2000 in lieu of samples collected from D6, D10, and D17, which are located in the area in which free product recovery is taking place. Bold values exceed In-Stream Water Quality Standard.

Italic values exceed alternate concentration limit.

BGS Below ground surface BTEX

Benzene, toluene, ethylbenzene, and xylenes

GA EPD Georgia Environmental Protection Division

ND Not detected

NRC No regulatory criteria

Laboratory Qualifiers

Indicates that the compound was not detected above the reported sample quantitation limit. U

UJ Indicates that the compound was not detected above an approximated sample quantitation limit.

Indicates that the value for the compound was an estimated value. J

Sample Location	Sample ID	Screened Interval (feet BGS)	Date Sampled	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	Total BTEX (µg/L)
Locution	Sumple 12	(1001 2005)		ampling Even			(µg/1)	(µg/2)
MW60	AE60F2	3.0 - 13.0	06/07/01	0.38 J	<u>u – June 200.</u> 2 U	0.16 J	5 U	0.54
MW60 MW61	AE61F2	3.0 - 13.0	06/07/01	2 U	2 U	0.21 J	5 U	0.21
MW63	AE63F2	4.0 - 14.0	06/07/01	2 U	2 U	2 U	2 U	ND
AE-D3/PR-6		2.0 - 12.0	06/07/01	3.1 =	2.9 U	12.1 =	29 =	44.2
D4	AED4F2	2.0 - 12.0	06/07/01	412 =	10 U	5 J	20.2 J	437.2
D6	AED6F2	2.0 - 12.0	06/07/01	364 =	10 U	29.2 =	93.1 =	486.3
D7	AED7F2	2.0 - 12.0	06/07/01	394 =	20 U	641 =	586 =	1,621
D9	AED9F2	2.0 - 12.0	06/07/01	988 =	28.2 U	688 =	2,540 =	4,216
D10	AED0F2	2.0 - 12.0	06/07/01	1.6 J	10 U	10 U	185 =	186.6
D12	AEDBF2	2.0 - 12.0	06/07/01	92.1 =	2 U	0.49 J	13.2 =	105.79
D14	AEDEF2	2.0 - 12.0	06/07/01	64.8 =	2 U	45.5 =	97.4 =	207.7
D17	AEDGF2	2.0 - 12.0	06/07/01	9.2 =	2 U	0.18 J	1.3 J	10.68
D19	AEDJF2	2.0 - 12.0	06/07/01	100 =	2 U	39.4 =	33.2 =	172.6
P1	AEP1F2	2.5 - 12.5	06/07/01	2.2 =	2 U	2 U	1.5 J	3.7
P2	AEP2F2	2.5 - 12.5	06/07/01	0.82 J	2 U	0.31 J	0.6 J	1.73
P4	AEP4F2	2.0 - 12.0	06/07/01	0.35 J	2 U	2 U	5 U	0.35
			Sixteenth Sa	mpling Event	t – August 20	01		
MW60	AE60G2	3.0 - 13.0	08/08/01	0.21 J	2 U	0.24 J	0.71 J	1.16
MW61	AE61G2	3.0 - 13.0	08/08/01	11.4 =	10.2 =	80.0 =	201 =	302.6
MW63	AE63G2	4.0 - 14.0	08/08/01	2 U	2 U	2 U	0.35 J	0.35
AE-D3/PR-6		2.0 - 12.0	08/08/01	0.77 J	4 U	108 =	185 =	293.77
D4	AED4G2	2.0 - 12.0	08/08/01	13.2 =	2 U	13.0 =	1.9 J	28.1
D6	AED6G2	2.0 - 12.0	08/08/01	94.4 =	2 U	21.2 =	38.9 =	154.5
D7	AED7G2	2.0 - 12.0	08/08/01	196 =	20 U	341 =	316 =	853
D9	AED9G2	2.0 - 12.0	08/08/01	885 =	28.5 =	901 =	2,630 =	4,444.5
D10	AED0G2	2.0 - 12.0	08/08/01	57.3 =	2 U	0.25 J	76.9 =	134.45
D12	AEDBG2	2.0 - 12.0	08/08/01	14.4 =	2 U	2 U	0.38 J	14.78
D14	AEDDG2	2.0 - 12.0	08/08/01	42.8 =	2 U	14.6 =	41.1 =	98.5
D17	AEDGG2	2.0 - 12.0	08/08/01	12.3 =	2 U	2 U	0.67 J	12.97
D19	AEDJG2	2.0 - 12.0	08/08/01	53.0 =	2 U	28.0 =	16.8 =	97.8
P1	AEP1G2	2.5 - 12.5	08/08/01	2.9 =	2 U	2 U	2.1 J	5.0
P2	AEP2G2	2.5 - 12.5	08/08/01	0.57 J	2 U	0.43 J	0.44 J	1.44
P4	AEP4G2	2.0 - 12.0	08/08/01	0.17 J	2 U	0.20 J	0.83 J	1.2
In-	In-Stream Water Quality Standard (GA EPD Chapter 391-3-6)			71.28	200,000	28,718	NRC	NRC
A	Alternate Con	centration Limi	t	78				

NOTES:

Due to the continuing nondetects in MW64, D19, and P5, sampling was discontinued in these wells in March 2000 in lieu of samples collected from D6, D10, and D17, which are located in the area in which free product recovery is taking place. Bold values exceed In-Stream Water Quality Standard.

Italic values exceed alternate concentration limit.

BGS Below ground surface

BTEX Benzene, toluene, ethylbenzene, and xylenes

GA EPD Georgia Environmental Protection Division

Not detected ND

NRC No regulatory criteria

Laboratory Qualifiers

Indicates that the compound was not detected above the reported sample quantitation limit. U

UJ Indicates that the compound was not detected above an approximated sample quantitation limit.

J Indicates that the value for the compound was an estimated value.

Sample Localor Interval (feet BG) Date Sample (multicle) Parte (multicle) Total BTEX (multicle) Total BTEX (multicle) MW60 AE60H2 3.0 - 13.0 10/04/01 0.39 J 2 U 0.89 J 1 1.4 J 2.68 MW61 AE63H2 3.0 - 13.0 10/04/01 2.87 J 13.8 = 61.0 = 119 = 222.50 MW63 AE63H2 4.0 - 14.0 10/04/01 15.5 J 0.69 J 130 = 2.67 = 399.19 D4 AED6H2 2.0 - 12.0 10/04/01 15.5 J 0.69 J 130 = 2.67 = 399.19 D4 AED6H2 2.0 - 12.0 10/04/01 155 J 24.2 E 1.9 = 212.6 D7 AED7H2 2.0 - 12.0 10/04/01 154 J 2.9 J 346 = 281 = 823.9 D10 AED0H2 2.0 - 12.0 10/04/01 85.3 J 0.83 J 2 U 0.60 J 9.93 D14 AED0H2 2.0 - 12.0 10/04/01 13.5 J 0.83 J <			Screened						
Location Sample Di (feet BGS) Sampled (µg/L) (µg/L)	Sample			Date	Benzene	Toluene	Ethylbenzene	Xylenes	Total BTEX
MW60 AE60H2 3.0 - 13.0 10/04/01 0.39 J 2 U 0.89 J 1.4 J 2.68 MW61 AE63H2 3.0 - 13.0 10/04/01 0.28.7 J 13.8 = 61.0 = 119 = 222.50 AE63H2 2.0 - 12.0 10/04/01 1.5 J 0.69 J 130 = 267 = 399.19 D4 AED4H2 2.0 - 12.0 10/04/01 135 J J 2.42 = 51.9 212.6 D7 AED7H2 2.0 - 12.0 10/04/01 194 J 2.9 J 346 = 281 = 823.9 D9 AED9H2 2.0 - 12.0 10/04/01 29.0 J 4 U 0.40 J 11.1 = 40.50 D10 AEDH2 2.0 - 12.0 10/04/01 33.1 J 0.40 J 11.1 = 42.1 J 31.		Sample ID	(feet BGS)	Sampled	(μ g/L)	(μ g/L)	(μ g/L)	$(\mu g/L)$	(µ g/L)
MW60 AE60H2 3.0 - 13.0 10/04/01 0.39 J 2 U 0.89 J 1.4 J 2.68 MW61 AE63H2 3.0 - 13.0 10/04/01 0.28.7 J 13.8 = 61.0 = 119 = 222.50 AE63H2 2.0 - 12.0 10/04/01 1.5 J 0.69 J 130 = 267 = 399.19 D4 AED4H2 2.0 - 12.0 10/04/01 135 J J 2.42 = 51.9 212.6 D7 AED7H2 2.0 - 12.0 10/04/01 194 J 2.9 J 346 = 281 = 823.9 D9 AED9H2 2.0 - 12.0 10/04/01 29.0 J 4 U 0.40 J 11.1 = 40.50 D10 AEDH2 2.0 - 12.0 10/04/01 33.1 J 0.40 J 11.1 = 42.1 J 31.				Seventeenth S	ampling Ever	nt – October 2	2001		
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	MW60	AE60H2						1.4 J	2.68
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	MW61	AE61H2	3.0 - 13.0	10/04/01	28.7 J	13.8 =	61.0 =	119 =	222.50
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	MW63	AE63H2	4.0 - 14.0	10/04/01	0.20 J	2 U	2 U	5 U	0.20
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	AE-D3/PR-6	AER6H2	2.0 - 12.0	10/04/01	1.5 J	0.69 J	130 =	267 =	399.19
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	D4	AED4H2	2.0 - 12.0	10/04/01	<i>427</i> J	1.1 J	48.3 =	34.6 =	511.00
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	D6	AED6H2	2.0 - 12.0	10/04/01	<i>135</i> J	1.5 J	24.2 =	51.9 =	212.6
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	D7	AED7H2	2.0 - 12.0	10/04/01	<i>194</i> J	2.9 J	346 =	281 =	823.9
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	D9	AED9H2	2.0 - 12.0	10/04/01	643 J	20.3 J	734 =	2,720 =	4,117.30
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	D10	AED0H2	2.0 - 12.0	10/04/01	29.0 J	4 U	0.40 J	11.1 =	40.50
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	D12	AEDBH2	2.0 - 12.0	10/04/01	8.5 J	0.83 J	2 U	0.60 J	9.93
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	D14	AEDDH2	2.0 - 12.0	10/04/01	33.1 J	0.96 J	16.7 =	57.3 =	108.06
P1AEP1H2 $2.5 - 12.5$ $10/04/01$ 12.2 J2U 1.6 J $15.1 =$ 28.90 P2AEP2H2 $2.5 - 12.5$ $10/04/01$ 0.60 J 2 U 0.70 J 0.58 J 1.88 P4AEP4H2 $2.0 - 12.0$ $10/04/01$ 0.33 J 0.26 J 2 U 0.20 J 0.79 Eighteenth Sampling Event - December 2001MW60AE60J2 $3.0 - 13.0$ $12/01/01$ 2 U 2 U 5 UNDMW61AE63J2 $4.0 - 14.0$ $12/01/01$ 2 U 2 U 2 U 5 UNDMW63AE63J2 $4.0 - 14.0$ $12/01/01$ 2 U 2 U 2 U 5 UNDAE-D3/PR-6AER6J2 $2.0 - 12.0$ $12/01/01$ $36.0 =$ $14.0 =$ $109 =$ $178 =$ 337.00 D4AED4J2 $2.0 - 12.0$ $12/01/01$ $99.1 =$ 4.0 U $5.2 =$ 1.2 J 109.50 D6AED6J2 $2.0 - 12.0$ $12/01/01$ $24.6 =$ 2 U 0.95 J 2.7 J 28.25 D7AED7J2 $2.0 - 12.0$ $12/01/01$ $27.4 =$ 20 U $363 =$ $199 =$ 736.00 D9AED9J2 $2.0 - 12.0$ $12/01/01$ $7.3 =$ 2 U $7.4 =$ $29.1 =$ 43.80 D12AEDBJ2 $2.0 - 12.0$ $12/01/01$	D17	AEDGH2	2.0 - 12.0	10/04/01	13.9 J	2 U	0.59 J	0.80 J	15.29
P2AEP2H2 $2.5 - 12.5$ $10/04/01$ 0.60 J 2 U 0.70 J 0.58 J 1.88 P4AEP4H2 $2.0 - 12.0$ $10/04/01$ 0.33 J 0.26 J 2 U 0.20 J 0.79 Eighteenth Sampling Event – December 2001MW60AE6012 $3.0 - 13.0$ $12/01/01$ 2 U 2 U 2 U 5 U NDMW61AE61J2 $3.0 - 13.0$ $12/01/01$ 2 U 2 U 2 U 5 U NDMW63AE63J2 $4.0 - 14.0$ $12/01/01$ 2 U 2 U 2 U 5 U NDMW63AE63J2 $4.0 - 14.0$ $12/01/01$ 2 U 2 U 2 U 5 U NDMW63AE64J2 $2.0 - 12.0$ $12/01/01$ 2 U 2 U 2 U 5 U NDAE-D3/PR-6AER6J2 $2.0 - 12.0$ $12/01/01$ $36.0 = 14.0 = 109 = 178 = 337.00$ 37.00 $D4$ $AED4J2$ $2.0 - 12.0$ $12/01/01$ $24.6 = 2$ U 0.95 J 2.7 J 28.25 D7AED7J2 $2.0 - 12.0$ $12/01/01$ $174 = 20$ U $363 = 199 = 736.00$ 3904.00 D10AED0J2 $2.0 - 12.0$ $12/01/01$ $7.3 = 2$ U $7.4 = 29.1 = 43.80$ D112AEDBJ2 $2.0 - 12.0$ $12/01/01$ <	D19	AEDJH2	2.0 - 12.0	10/04/01	17.1 J	0.37 J	10.2 =	4.2 J	31.87
P4 AEP4H2 2.0 - 12.0 10/04/01 0.33 J 0.26 J 2 U 0.20 J 0.79 Eighteenth Sampling Event - December 2001 MW60 AE60J2 3.0 - 13.0 12/01/01 2 U 2 U 2 U 5 U ND MW61 AE61J2 3.0 - 13.0 12/01/01 2 U 2 U 2 U 5 U ND MW63 AE63J2 4.0 - 14.0 12/01/01 2 U 2 U 2 U 5 U ND AE-D3/PR-6 AER6J2 2.0 - 12.0 12/01/01 36.0 = 14.0 = 109 = 178 337.00 D4 AED4J2 2.0 - 12.0 12/01/01 36.6 = 2 U 0.95 J 2.7 J 28.25 D7 AED7J2 2.0 - 12.0 12/01/01 174 = 20 U	P1	AEP1H2	2.5 - 12.5	10/04/01	12.2 J	2 U	1.6 J	15.1 =	28.90
Eighteenth Sampling Event - December 2001 MW60 AE60J2 $3.0 - 13.0$ $12/01/01$ 2 U 2 U 2 U 5 U ND MW61 AE61J2 $3.0 - 13.0$ $12/01/01$ 2 U 2 U 2 U 5 U ND MW63 AE63J2 $4.0 - 14.0$ $12/01/01$ 2 U 2 U 2 U 5 U ND AE-D3/PR-6 AER6J2 $2.0 - 12.0$ $12/01/01$ $36.0 =$ $14.0 =$ $109 =$ $178 =$ 337.00 D4 AED4J2 $2.0 - 12.0$ $12/01/01$ $99.1 =$ 4.0 U $5.2 =$ 1.2 J 109.50 D6 AED6J2 $2.0 - 12.0$ $12/01/01$ $24.6 =$ 2 U 0.95 J 2.7 J 28.25 D7 AED7J2 $2.0 - 12.0$ $12/01/01$ $174 =$ 200 U $363 =$ $199 =$ 736.00 D9 AED7J2 $2.0 - 12.0$ $12/01/01$ $73 =$ 2 U $7.4 =$ $29.1 =$ 43.80 <t< td=""><td>P2</td><td>AEP2H2</td><td>2.5 - 12.5</td><td>10/04/01</td><td>0.60 J</td><td>2 U</td><td>0.70 J</td><td>0.58 J</td><td>1.88</td></t<>	P2	AEP2H2	2.5 - 12.5	10/04/01	0.60 J	2 U	0.70 J	0.58 J	1.88
MW60 AE60J2 $3.0 - 13.0$ $12/01/01$ 2 U 2 U 2 U 5 V ND MW61 AE61J2 $3.0 - 13.0$ $12/01/01$ 2 U 2 U 5 U ND MW63 AE63J2 $4.0 - 14.0$ $12/01/01$ 2 U 2 U 5 U ND AE-D3/PR-6 AER6J2 $2.0 - 12.0$ $12/01/01$ $36.0 =$ $14.0 =$ $109 =$ $178 =$ 337.00 D4 AED4J2 $2.0 - 12.0$ $12/01/01$ $99.I =$ 4.0 U $5.2 =$ 1.2 J 109.50 D6 AED6J2 $2.0 - 12.0$ $12/01/01$ $24.6 =$ 2 U 0.95 J 2.7 J 28.25 D7 AED7J2 $2.0 - 12.0$ $12/01/01$ $174 =$ 20 U $363 =$ $199 =$ 736.00 D9 AED9J2 $2.0 - 12.0$	P4	AEP4H2	2.0 - 12.0	10/04/01	0.33 J	0.26 J	2 U	0.20 J	0.79
MW61AE61J2 $3.0 - 13.0$ $12/01/01$ 2 U 2 U 2 U 2 U 5 UNDMW63AE63J2 $4.0 - 14.0$ $12/01/01$ 2 U 2 U 2 U 2 U 5 UNDAE-D3/PR-6AER6J2 $2.0 - 12.0$ $12/01/01$ $36.0 =$ $14.0 =$ $109 =$ $178 =$ 337.00 D4AED4J2 $2.0 - 12.0$ $12/01/01$ $99.I =$ 4.0 U $5.2 =$ 1.2 J 109.50 D6AED6J2 $2.0 - 12.0$ $12/01/01$ $24.6 =$ 2 U 0.95 J 2.7 J 28.25 D7AED7J2 $2.0 - 12.0$ $12/01/01$ $174 =$ 20 U $363 =$ $199 =$ 736.00 D9AED9J2 $2.0 - 12.0$ $12/01/01$ $882 =$ 40 U $682 =$ $2.340 =$ $3,904.00$ D10AED0J2 $2.0 - 12.0$ $12/01/01$ $7.3 =$ 2 U $7.4 =$ $29.1 =$ 43.80 D12AEDBJ2 $2.0 - 12.0$ $12/01/01$ $7.3 =$ 2 U $7.4 =$ $29.1 =$ 43.80 D12AEDBJ2 $2.0 - 12.0$ $12/01/01$ $7.5 =$ 2 U $8.5 =$ $12.8 =$ 27.00 D14AEDJ2 $2.0 - 12.0$ $12/01/01$ $57 =$ 2 U $8.5 =$ $12.8 =$ 27.00 D17AEDGJ2 $2.0 - 12.0$ $12/01/01$ $57 =$ 2 U $8.5 =$ $12.8 =$ 27.00 D19AEDJ2 $2.0 - 12.0$ $12/01/01$ $57 =$ 2 U $8.5 =$ $12.8 =$ 27.00			E	Eighteenth Sa	mpling Event	– December 2	2001		
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	MW60	AE60J2	3.0 - 13.0	12/01/01	2 U	2 U	2 U		ND
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	MW61	AE61J2	3.0 - 13.0	12/01/01	2 U	2 U	2 U		
D4AED4J2 $2.0 - 12.0$ $12/01/01$ $99.1 =$ $4.0 \ \cup$ $5.2 =$ $1.2 \ J$ 109.50 D6AED6J2 $2.0 - 12.0$ $12/01/01$ $24.6 =$ $2 \ \cup$ $0.95 \ J$ $2.7 \ J$ 28.25 D7AED7J2 $2.0 - 12.0$ $12/01/01$ $174 =$ $20 \ \cup$ $363 =$ $199 =$ 736.00 D9AED9J2 $2.0 - 12.0$ $12/01/01$ $882 =$ $40 \ \cup$ $682 =$ $2,340 =$ $3,904.00$ D10AED012 $2.0 - 12.0$ $12/01/01$ $7.3 =$ $2 \ \cup$ $7.4 =$ $29.1 =$ 43.80 D12AEDBJ2 $2.0 - 12.0$ $12/01/01$ $7.3 =$ $2 \ \cup$ $23.5 =$ $28.4 =$ 126.70 D14AEDDJ2 $2.0 - 12.0$ $12/01/01$ $7.4 =$ $2 \ \cup$ $28.4 =$ 126.70 D14AEDDJ2 $2.0 - 12.0$ $12/01/01$ $52.9 =$ $2 \ \cup$ $18.1 =$ $60.0 =$ 131.00 D17AEDGJ2 $2.0 - 12.0$ $12/01/01$ $5.7 =$ $2 \ \cup$ $8.5 =$ $12.8 =$ 27.00 D19AEDJ2 $2.0 - 12.0$ $12/01/01$ $41.3 =$ $2 \ \cup$ $22.4 =$ $37.0 =$ 100.70 P1AEPJ2 $2.5 - 12.5$ $12/01/01$ $10.2 =$ $2 \ \cup$ $1.6 \ J$ $12.8 =$ 24.60 P2AEP2J2 $2.5 - 12.5$ $12/01/01$ $0.41 \ J$ $2 \ \cup$ $2 \ \cup$ $5 \ \cup$ NDP4AEP4J2 $2.0 - 12.0$ $12/01/01$ $2 \ \cup$ $2 \ \cup$ $2 \ \cup$ $5 \ \cup$ NRC<	MW63	AE63J2	4.0 - 14.0	12/01/01	2 U	2 U	2 U	5 U	ND
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	AE-D3/PR-6	AER6J2	2.0 - 12.0	12/01/01	36.0 =	14.0 =	109 =	178 =	337.00
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	D4	AED4J2	2.0 - 12.0	12/01/01	99.1 =	4.0 U	5.2 =	1.2 J	109.50
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	D6	AED6J2	2.0 - 12.0	12/01/01	24.6 =	2 U	0.95 J	2.7 J	28.25
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	D7	AED7J2	2.0 - 12.0	12/01/01	174 =	20 U	363 =	199 =	736.00
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	D9	AED9J2	2.0 - 12.0	12/01/01	882 =	40 U	682 =	2,340 =	3,904.00
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	D10	AED0J2	2.0 - 12.0	12/01/01	7.3 =		7.4 =	29.1 =	43.80
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	D12	AEDBJ2	2.0 - 12.0	12/01/01	74.8 =	2 U	23.5 =	28.4 =	126.70
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	D14	AEDDJ2	2.0 - 12.0	12/01/01	52.9 =	2 U	18.1 =	60.0 =	131.00
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	D17	AEDGJ2	2.0 - 12.0	12/01/01	5.7 =	2 U	8.5 =	12.8 =	27.00
P2 AEP2J2 2.5 - 12.5 12/01/01 0.41 J 2 U 0.26 J 5 U 0.67 P4 AEP4J2 2.0 - 12.0 12/01/01 2 U 2 U 2 U 5 U ND In-Stream Water Quality Standard (GA EPD Chapter 391-3-6) 71.28 200,000 28,718 NRC NRC	D19	AEDJJ2	2.0 - 12.0	12/01/01	41.3 =	2 U	22.4 =	37.0 =	100.70
P4 AEP4J2 2.0 - 12.0 12/01/01 2 U 2 U 2 U 5 U ND In-Stream Water Quality Standard (GA EPD Chapter 391-3-6) 71.28 200,000 28,718 NRC NRC	P1	AEP1J2	2.5 - 12.5	12/01/01	10.2 =	2 U	1.6 J	12.8 =	24.60
In-Stream Water Quality Standard (GA EPD Chapter 391-3-6)71.28200,00028,718NRCNRC	P2	AEP2J2	2.5 - 12.5	12/01/01	0.41 J	2 U	0.26 J	5 U	0.67
(GA EPD Chapter 391-3-6) /1.28 200,000 28,718 NRC NRC					2 U			5 U	
	In-S					200,000	28,718	NRC	NRC
	Δ			t	78				

NOTES:

Due to the continuing nondetects in MW64, D19, and P5, sampling was discontinued in these wells in March 2000 in lieu of samples collected from D6, D10, and D17, which are located in the area in which free product recovery is taking place. Bold values exceed In-Stream Water Quality Standard.

Italic values exceed alternate concentration limit.

BGS Below ground surface

BTEX Benzene, toluene, ethylbenzene, and xylenes

GA EPD Georgia Environmental Protection Division

ND Not detected

NRC No regulatory criteria

Laboratory Qualifiers

U Indicates that the compound was not detected above the reported sample quantitation limit.

UJ Indicates that the compound was not detected above an approximated sample quantitation limit.

J Indicates that the value for the compound was an estimated value.

		Screened						
Sample		Interval	Date	Benzene	Toluene	Ethylbenzene	Xylenes	Total BTEX
	Sample ID	(feet BGS)	Sampled	(μ g/L)	$(\mu g/L)$	(μ g/L)	$(\mu g/L)$	(μ g/L)
	T T	(mpling Event			N° O /	
MW60	AE60K2	3.0 - 13.0	02/20/02	2 U	2 U	2 U	5 U	ND
MW61	AE61K2	3.0 - 13.0	02/20/02	3.3 =	0.21 J	4.7 =	2.2 J	10.41
MW63	AE63K2	4.0 - 14.0	02/20/02	2 U	0.17 J	2 U	5 U	0.17
AE-D3/PR-6		2.0 - 12.0	02/20/02	0.64 J	0.30 J	3.9 =	1.3 J	6.14
D4	AED4K2	2.0 - 12.0	02/19/02	14.2 =	2 U	3.8 =	0.60 J	18.60
D6	AED6K2	2.0 - 12.0	02/20/02	89.3 =	0.51 J	14.3 =	8.7 =	112.81
D7	AED7K2	2.0 - 12.0	02/20/02	<i>164</i> =	1.8 J	190 =	181 =	536.80
D9	AED9K2	2.0 - 12.0	02/19/02	924 =	26.8 =	791 =	2,560 =	4,301.80
D10	AED0K2	2.0 - 12.0	02/20/02	3.4 =	0.23 J	1.4 J	3.0 J	8.03
D12	AEDBK2	2.0 - 12.0	02/20/02	3.8 =	0.20 J	0.37 J	0.85 J	5.22
D14	AEDDK2	2.0 - 12.0	02/20/02	64.1 =	0.54 J	8.7 =	32.6 =	105.94
D17	AEDGK2	2.0 - 12.0	02/20/02	4.7 =	0.20 J	0.49 J	5 U	5.39
D19	AEDJK2	2.0 - 12.0	02/20/02	54.4 =	0.51 J	13.4 =	2.3 J	70.61
P1	AEP1K2	2.5 - 12.5	02/20/02	1.5 J	2 U	2 U	0.62 J	2.12
P2	AEP2K2	2.5 - 12.5	02/20/02	0.51 J	2 U	2 U	5 U	0.51
P4	AEP4K2	2.0 - 12.0	02/20/02	2 U	2 U	2 U	5 U	ND
			Twentieth S	Sampling Even	nt – April 200	2		
MW60	AE60M2	3.0 - 13.0	04/09/02	2 U	2 U	2 U	5 U	ND
MW61	AE61M2	3.0 - 13.0	04/09/02	2 U	2 U	2 U	5 U	ND
MW63	AE63M2	4.0 - 14.0	04/09/02	2 U	2 U	2 U	5 U	ND
AE-D3/PR-6	AER6M2	2.0 - 12.0	04/09/02	0.62 J	2 U	19.8 =	3.8 J	24.22
D4	AED4M2	2.0 - 12.0	04/09/02	27.5 =	2 U	4.4 =	2.9 J	34.80
D6	AED6M2	2.0 - 12.0	04/09/02	29.9 =	2 U	6.7 =	12.4 =	49.00
D7	AED7M2	2.0 - 12.0	04/09/02	85.9 =	4 U	158 =	81.6 =	325.50
D9	AED9M2	2.0 - 12.0	04/09/02	817 =	23.6 =	692 =	1,850 =	3,382.60
D10	AED0M2	2.0 - 12.0	04/09/02	6.1 =	2 U	1.7 J	6.2 =	14.00
D12	AEDBM2	2.0 - 12.0	04/09/02	3.3 =	2 U	6.4 =	19.7 =	29.40
D14	AEDDM2	2.0 - 12.0	04/09/02	31.8 =	2 U	13.1 =	47.9 =	92.80
D17	AEDGM2	2.0 - 12.0	04/09/02	6.7 =	2 U	8.1 =	25.4 =	40.20
D19	AEDJM2	2.0 - 12.0	04/09/02	49.0 =	2 U	19.1 =	24.0 =	92.10
P1	AEP1M2	2.5 - 12.5	04/09/02	1.5 J	2 U	0.68 J	2.5 J	4.68
P2	AEP2M2	2.5 - 12.5	04/09/02	0.31 J	2 U	0.48 J	1.6 J	2.39
P4	AEP4M2	2.0 - 12.0	04/09/02	0.69 J	2 U	1.3 J	4.2 J	6.17
In-		r Quality Standa hapter 391-3-6)	ard	71.28	200,000	28,718	NRC	NRC
A		centration Limi	t	78				

NOTES:

Due to the continuing nondetects in MW64, D19, and P5, sampling was discontinued in these wells in March 2000 in lieu of samples collected from D6, D10, and D17, which are located in the area in which free product recovery is taking place. Bold values exceed In-Stream Water Quality Standard.

Italic values exceed alternate concentration limit.

BGS Below ground surface

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GA EPD Georgia Environmental Protection Division

ND Not detected

NRC No regulatory criteria

Laboratory Qualifiers

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Sample Location	Sample ID	Screened Interval (feet BGS)	Date Sampled	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	Total BTEX (µg/L)		
			Twenty-first	Sampling Eve	Sampling Event – June 2002					
MW60	AE60N2	3.0 - 13.0	06/09/02	2 U	2 U	2 U	5 U	ND		
MW61	MW61 AE61N2 3.0 - 13.0 06/07/02		7.8 =	2 U	4.8 =	5.8 =	18.40			
MW63	AE63N2	4.0 - 14.0	06/09/02	0.41 J	2 U	2 U	5 U	0.41		
AE-D3/PR-6	AER6N2	2.0 - 12.0	06/09/02	1.5 J	2.0 =	27.5 =	34.0 =	65.00		
D4	AED4N2	2.0 - 12.0	06/08/02	69.5 =	2.0 =	8.6 =	3.1 J	83.20		
D6	AED6N2	2.0 - 12.0	06/08/02	<i>143</i> =	1.1 J	47.8 =	61.7 =	253.60		
D7	AED7N2	2.0 - 12.0	06/08/02	61.8 =	0.96 J	127 =	112 =	301.76		
D9	AED9N2	2.0 - 12.0	06/08/02	574 =	15.7 J	506 =	1,690 =	2,785.70		
D10	AED0N2	2.0 - 12.0	06/08/02	2 U	2 U	2 U	5 U	ND		
D12	AEDBN2	2.0 - 12.0	06/08/02	2 U	2 U	2 U	5 U	ND		
D14	AEDDN2	2.0 - 12.0	06/08/02	7.7 =	2 U	1.6 J	3.5 J	12.80		
D17	AEDGN2	2.0 - 12.0	06/08/02	1.2 J	2 U	1.1 J	1.6 J	3.90		
D19	AEDJN2	2.0 - 12.0	06/08/02	14.9 =	2 U	3.9 =	0.70 J	19.50		
P1	AEP1N2	2.5 - 12.5	06/08/02	2 U	2 U	2 U	5 U	ND		
P2	AEP2N2	2.5 - 12.5	06/08/02	0.35 J	2 U	2 U	5 U	0.35		
P4 AEP4N2 2.0 - 12.0 06/08/02		2 U	2 U	2 U	5 U	ND				
In-		r Quality Standa hapter 391-3-6)	ard	71.28	200,000	28,718	NRC	NRC		
A	Alternate Cor	centration Limi	t	78						

NOTES:

Due to the continuing nondetects in MW64, D19, and P5, sampling was discontinued in these wells in March 2000 in lieu of samples collected from D6, D10, and D17, which are located in the area in which free product recovery is taking place. Bold values exceed In-Stream Water Quality Standard.

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GA EPD Georgia Environmental Protection Division

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Table 4.	Groundwater	Elevations
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		Eleva		Depth of	Depth of			-			
		(feet N	/	Screened	Free	Water	Product	Groundwater			
Well	Date	Ground	Top of	Interval	Product	Depth	Thickness	Elevation			
Number	Measured	Surface	Casing	(feet BGS)	(feet BTOC)	(feet BTOC)	(feet)	(feet MSL)			
					e Monitoring Event – May 1999						
D1	05/09/99	19.7	20.07	2.0 - 12.0		8.71	0	11.36			
D2	05/09/99	19.3	19.60	2.0 - 12.0	sheen	7.17	sheen	12.43			
D3	05/09/99	19.4	19.69	2.0 - 12.0		7.18	0	12.51			
D4	05/09/99	19.4	19.66	2.0 - 12.0	—	7.08	0	12.58			
D5	05/09/99	19.5	19.88	2.0 - 12.0	sheen	7.51	sheen	12.37			
D6	05/09/99	19.3	19.66	2.0 - 12.0	sheen	7.23	sheen	12.43			
D7	05/09/99	19.0	19.35	2.0 - 12.0	6.58	7.01	0.43	12.34			
D8	05/09/99	19.3	19.60	2.0 - 12.0	6.84	7.22	0.38	12.38			
D9	05/09/99	19.7	20.02	2.0 - 12.0	sheen	7.28	sheen	12.74			
D10	05/09/99	19.2	19.57	2.0 - 12.0	7.12	7.13	0.01	12.44			
D11	05/09/99	19.2	19.57	2.0 - 12.0	7.01	7.19	0.18	12.38			
D12	05/09/99	18.8	19.14	2.0 - 12.0	6.37	6.40	0.03	12.74			
D13	05/09/99	18.7	19.02	2.0 - 12.0	sheen	5.81	sheen	13.21			
D14	05/09/99	19.2	19.57	2.0 - 12.0	sheen	6.41	sheen	13.16			
D15	05/09/99	20.0	20.41	2.0 - 12.0	sheen	7.34	sheen	13.07			
D16	05/09/99	18.8	19.13	2.0 - 12.0	6.57	6.74	0.17	12.39			
D17	05/09/99	18.9	19.22	2.0 - 12.0	6.60	6.61	0.01	12.61			
D18	05/09/99	18.8	19.18	2.0 - 12.0	sheen	6.48	sheen	12.70			
D19	05/09/99	18.8	19.13	2.0 - 12.0	sheen	5.8	sheen	13.33			
D20	05/09/99	18.5	18.90	2.0 - 12.0	sheen	6.27	sheen	12.63			
D21	05/09/99	18.8	19.23	2.0 - 12.0		5.82	0	13.41			
D22	05/09/99	19.9	20.30	2.0 - 12.0		7.93	0	12.37			
D23	05/09/99	18.7	19.07	2.5 - 12.5		6.6	0	12.47			
D24	05/09/99	18.5	18.84	2.5 - 12.5	sheen	6.09	sheen	12.75			
MW6	05/10/99	19.6	19.40	2.9 - 12.9		10.19	0	9.21			
MW11	05/10/99	18.4	18.09	2.3 - 12.3		9.81	0	8.28			
MW60	05/10/99	19.9	19.70	3.0 - 13.0		10.99	0	8.71			
MW61	05/10/99	20.0	19.73	3.0 - 13.0		11.60	0	8.13			
MW63	05/10/99	19.7	19.55	4.0 - 14.0		11.03	0	8.52			
MW64	05/10/99	18.4	18.18	3.0 - 13.0		10.20	0	7.98			

NOTES:

BGS Below ground surface

BTOC Below top of casing

		Eleva (feet N		Depth of Screened	Depth of Free	Water	Product	Groundwater
Well	Date	Ground	Top of	Interval	Product	Depth	Thickness	Elevation
Number	Measured	Surface	Casing	(feet BGS)	(feet BTOC)	(feet BTOC)	(feet)	(feet MSL)
		Surface		`` /	Event – June 19		()	()
D1	06/14/99	19.7	20.07	2.0 – 12.0		7.68	0	12.39
D1 D2	06/14/99	19.3	19.60	2.0 - 12.0		7.19	0	12.41
D3	06/14/99	19.4	19.69	2.0 - 12.0		7.19	0	12.50
D4	06/14/99	19.4	19.66	2.0 - 12.0		6.47	0	13.19
D5	06/14/99	19.5	19.88	2.0 - 12.0	sheen	7.56	sheen	12.32
D6	06/14/99	19.3	19.66	2.0 - 12.0	7.15	7.85	0.70	11.81
D7	06/14/99	19.0	19.35	2.0 - 12.0	6.63	6.78	0.15	12.57
D8	06/14/99	19.3	19.60	2.0 - 12.0	sheen	6.71	sheen	12.89
D9	06/14/99	19.7	20.02	2.0 - 12.0		7.29	0	12.73
D10	06/14/99	19.2	19.57	2.0 - 12.0	7.15	7.22	0.07	12.35
D11	06/14/99	19.2	19.57	2.0 - 12.0	7.00	7.03	0.03	12.54
D12	06/14/99	18.8	19.14	2.0 - 12.0		6.24	0	12.90
D13	06/14/99	18.7	19.02	2.0 - 12.0	sheen	5.68	sheen	13.34
D14	06/14/99	19.2	19.57	2.0 - 12.0	sheen	6.34	sheen	13.23
D15	06/14/99	20.0	20.41	2.0 - 12.0	sheen	7.42	sheen	12.99
D16	06/14/99	18.8	19.13	2.0 - 12.0	6.48	6.86	0.38	12.27
D17	06/14/99	18.9	19.22	2.0 - 12.0	sheen	6.53	sheen	12.69
D18	06/14/99	18.8	19.18	2.0 - 12.0	_	6.50	0	12.68
D19	06/14/99	18.8	19.13	2.0 - 12.0		5.77	0	13.36
D20	06/14/99	18.5	18.90	2.0 - 12.0		6.27	0	12.63
D21	06/14/99	18.8	19.23	2.0 - 12.0		5.81	0	13.42
D22	06/14/99	19.9	20.30	2.0 - 12.0		7.95	0	12.35
D23	06/14/99	18.7	19.07	2.5 - 12.5	sheen	6.61	sheen	12.46
D24	06/14/99	18.5	18.84	2.5 - 12.5	sheen	6.04	sheen	12.80
MW6	06/14/99	19.6	19.40	2.9 - 12.9		5.95	0	13.45
MW11	06/14/99	18.4	18.09	2.3 - 12.3		6.72	0	11.37
MW60	06/14/99	19.9	19.70	3.0 - 13.0		7.52	0	12.18
MW61	06/14/99	20.0	19.73	3.0 - 13.0		7.47	0	12.26
MW63	06/14/99	19.7	19.55	4.0 - 14.0		7.55	0	12.00
MW64	06/14/99	18.4	18.18	3.0 - 13.0		6.06	0	12.12
P1	06/14/99	19.0	19.42	2.5 - 12.5		7.61	0	11.81
P2	06/14/99	20.0	20.34	2.5 - 12.5		8.09	0	12.25
P3	06/14/99	19.5	19.91	2.5 - 12.5		7.87	0	12.04
P4	06/14/99	19.4	19.79	2.0 - 12.0		7.61	0	12.18
P5	06/14/99	19.5	19.84	2.5 - 12.5		6.72	0	13.12

NOTES:

BGS Below ground surface

BTOC Below top of casing

		Eleva		Depth of	Depth of	Water	Product	Groundwater
Well	Date	(feet N		Screened	Free	Depth	Thickness	Elevation
Number	Measured	Ground	Top of	Interval (feet BGS)	Product (feet BTOC)	(feet BTOC)	(feet)	(feet MSL)
Tumber	Masurcu	Surface	Casing	· · · · · ·	(leet BTOC) g Event – July 1	````	(Icct)	(Itel MBL)
D1	07/06/99	19.7	20.07	2.0 – 12.0	sheen	5.77	sheen	14.30
D1 D2	07/06/99	19.7	19.60	2.0 - 12.0 2.0 - 12.0	Sheen	5.40	0	14.30
D2 D3	07/06/99	19.3	19.60	2.0 - 12.0 2.0 - 12.0		5.54	0	14.20
D3 D4	07/06/99	19.4	19.66	2.0 - 12.0 2.0 - 12.0		5.26	0	14.13
D4 D5	07/06/99	19.4	19.00	2.0 - 12.0 2.0 - 12.0		5.87	0	14.01
D5 D6	07/06/99	19.3	19.66	2.0 - 12.0 2.0 - 12.0	4.83	7.41	2.58	12.25
D0 D7	07/06/99	19.0	19.00	2.0 - 12.0 2.0 - 12.0	sheen	4.77	sheen	14.58
D7 D8	07/06/99	19.0	19.55	2.0 - 12.0 2.0 - 12.0	4.91	5.12	0.22	14.38
D8 D9	07/06/99	19.3	20.02	2.0 - 12.0 2.0 - 12.0	sheen	5.61	sheen	14.40
D9 D10	07/06/99	19.7	19.57	2.0 - 12.0 2.0 - 12.0	5.31	6.05	0.74	13.52
D10 D11	07/06/99	19.2	19.57	2.0 - 12.0 2.0 - 12.0	4.48	7.45	2.97	12.12
D11 D12	07/06/99	19.2	19.14	2.0 - 12.0 2.0 - 12.0	sheen	3.68	sheen	15.46
D12 D13	07/06/99	18.7	19.14	2.0 - 12.0 2.0 - 12.0	Sheen	3.49	0	15.53
D13 D14	07/06/99	19.2	19.57	2.0 - 12.0 2.0 - 12.0		4.01	0	15.56
D14 D15	07/06/99	20.0	20.41	2.0 - 12.0 2.0 - 12.0	4.92	5.49	0.57	14.92
D15 D16	07/06/99	18.8	19.13	2.0 - 12.0 2.0 - 12.0	4.50	6.16	1.66	12.97
D10 D17	07/06/99	18.9	19.22	2.0 - 12.0 2.0 - 12.0	3.60	5.54	1.94	13.68
D17 D18	07/06/99	18.8	19.18	2.0 - 12.0 2.0 - 12.0	5.00	3.13	0	16.05
D10 D19	07/06/99	18.8	19.13	2.0 - 12.0		3.35	0	15.78
D19 D20	07/06/99	18.5	18.90	2.0 - 12.0		4.54	0	14.36
D20	07/06/99	18.8	19.23	2.0 - 12.0		3.42	0	15.81
D21 D22	07/06/99	19.9	20.30	2.0 - 12.0	sheen	5.92	sheen	14.38
D23	07/06/99	18.7	19.07	2.5 - 12.5		4.94	0	14.13
D24	07/06/99	18.5	18.84	2.5 - 12.5		4.14	0	14.70
MW6	07/06/99	19.6	19.40	2.9 – 12.9		4.23	0	15.17
MW11	07/06/99	18.4	18.09	2.3 - 12.3		5.51	0	12.58
MW60	07/06/99	19.9	19.70	3.0 - 13.0		6.04	0	13.66
MW61	07/06/99	20.0	19.73	3.0 - 13.0		5.97	0	13.76
MW63	07/06/99	19.7	19.55	4.0 - 14.0		6.18	0	13.37
MW64	07/06/99	18.4	18.18	3.0 - 13.0		4.80	0	13.38
P1	07/06/99	19.0	19.42	2.5 - 12.5		6.37	0	13.05
P2	07/06/99	20.0	20.34	2.5 - 12.5		6.66	0	13.68
P3	07/06/99	19.5	19.91	2.5 - 12.5		6.56	0	13.35
P4	07/06/99	19.4	19.79	2.0 - 12.0		6.21	0	13.58
P5	07/06/99	19.5	19.84	2.5 - 12.5		4.41	0	15.43

NOTES:

BGS Below ground surface

BTOC Below top of casing

		Eleva		Depth of	Depth of	Water	Product	Groundwater
Well	Date	(feet M Ground	,	Screened Interval	Free Product	Depth	Thickness	Elevation
Number	Measured	Surface	Top of Casing	(feet BGS)	(feet BTOC)	(feet BTOC)	(feet)	(feet MSL)
i (uniber	1110ubul eu	Surface		· · · · ·	nt Event – Augi		(1000)	
D1	08/23/99	19.7	20.07	2.0 - 12.0		7.21	0	12.86
D1 D2	08/23/99	19.3	19.60	2.0 - 12.0 2.0 - 12.0		6.79	0	12.81
D2	08/23/99	19.4	19.69	2.0 - 12.0		6.83	0	12.86
D4	08/23/99	19.4	19.66	2.0 - 12.0		6.92	0	12.74
D5	08/23/99	19.5	19.88	2.0 - 12.0	sheen	7.01	sheen	12.87
D6	08/23/99	19.3	19.66	2.0 - 12.0	6.63	6.79	0.16	12.87
D7	08/23/99	19.0	19.35	2.0 - 12.0	sheen	6.42	sheen	12.93
D8	08/23/99	19.3	19.60	2.0 - 12.0		6.46	0	13.14
D9	08/23/99	19.7	20.02	2.0 - 12.0	6.95	6.96	0.01	13.06
D10	08/23/99	19.2	19.57	2.0 - 12.0	6.50	7.30	0.8	12.27
D11	08/23/99	19.2	19.57	2.0 - 12.0	6.55	6.96	0.41	12.61
D12	08/23/99	18.8	19.14	2.0 - 12.0		3.99	0	15.15
D13	08/23/99	18.7	19.02	2.0 - 12.0		5.26	0	13.76
D14	08/23/99	19.2	19.57	2.0 - 12.0		5.81	0	13.76
D15	08/23/99	20.0	20.41	2.0 - 12.0	sheen	7.10	sheen	13.31
D16	08/23/99	18.8	19.13	2.0 - 12.0	5.92	7.03	1.11	12.10
D17	08/23/99	18.9	19.22	2.0 - 12.0		6.13	0	13.09
D18	08/23/99	18.8	19.18	2.0 - 12.0	sheen	6.18	sheen	13.00
D19	08/23/99	18.8	19.13	2.0 - 12.0	_	5.32	0	13.81
D20	08/23/99	18.5	18.90	2.0 - 12.0	_	5.88	0	13.02
D21	08/23/99	18.8	19.23	2.0 - 12.0	sheen	5.42	sheen	13.81
D22	08/23/99	19.9	20.30	2.0 - 12.0	_	7.53	0	12.77
D23	08/23/99	18.7	19.07	2.5 - 12.5	sheen	6.07	sheen	13.00
D24	08/23/99	18.5	18.84	2.5 - 12.5	sheen	5.79	sheen	13.05
MW6	08/23/99	19.6	19.40	2.9 - 12.9		6.00	0	13.40
MW11	08/23/99	18.4	18.09	2.3 - 12.3		6.37	0	11.72
MW60	08/23/99	19.9	19.70	3.0 - 13.0		7.09	0	12.61
MW61	08/23/99	20.0	19.73	3.0 - 13.0		7.14	0	12.59
MW63	08/23/99	19.7	19.55	4.0 - 14.0		7.09	0	12.46
MW64	08/23/99	18.4	18.18	3.0 - 13.0		5.66	0	12.52
P1	08/23/99	19.0	19.42	2.5 - 12.5		7.16	0	12.26
P2	08/23/99	20.0	20.34	2.5 - 12.5		7.63	0	12.71
P3	08/23/99	19.5	19.91	2.5 - 12.5		7.39	0	12.52
P4	08/23/99	19.4	19.79	2.0 - 12.0		7.07	0	12.72
P5	08/23/99	19.5	19.84	2.5 - 12.5		6.05	0	13.79

NOTES:

BGS Below ground surface

BTOC Below top of casing

		Eleva		Depth of	Depth of	Water	Product	Groundwater
Well	Date	(feet M		Screened Interval	Free Product	Depth	Thickness	Elevation
Number	Measured	Ground Surface	Top of Casing	(feet BGS)	(feet BTOC)	(feet BTOC)	(feet)	(feet MSL)
	1.1cusul cu	Surface			vent – Septemb	· /	(1000)	
D1	09/29/99	19.7	20.07	2.0 - 12.0		6.23	0	13.84
D1 D2	09/29/99	19.7	19.60	2.0 - 12.0 2.0 - 12.0		5.73	0	13.87
D2	09/29/99	19.4	19.69	2.0 - 12.0		5.81	0	13.88
D3 D4	09/29/99	19.1	19.66	2.0 - 12.0 2.0 - 12.0		5.75	0	13.91
D5	09/29/99	19.5	19.88	2.0 - 12.0		5.88	0	14.00
D6	09/29/99	19.3	19.66	2.0 - 12.0	5.24	6.94	1.7	12.72
D7	09/29/99	19.0	19.35	2.0 - 12.0	5.26	5.53	0.27	13.82
D8	09/29/99	19.3	19.60	2.0 - 12.0		5.61	0	13.99
 D9	09/29/99	19.7	20.02	2.0 - 12.0	sheen	5.96	sheen	14.06
D10	09/29/99	19.2	19.57	2.0 - 12.0	5.29	6.54	1.25	13.03
D11	09/29/99	19.2	19.57	2.0 - 12.0	4.91	7.24	2.33	12.33
D12	09/29/99	18.8	19.14	2.0 - 12.0		3.23	0	15.91
D13	09/29/99	18.7	19.02	2.0 - 12.0		4.13	0	14.89
D14	09/29/99	19.2	19.57	2.0 - 12.0		4.79	0	14.78
D15	09/29/99	20.0	20.41	2.0 - 12.0		6.19	0	14.22
D16	09/29/99	18.8	19.13	2.0 - 12.0	4.91	5.47	0.56	13.66
D17	09/29/99	18.9	19.22	2.0 - 12.0	4.64	6.28	1.64	12.94
D18	09/29/99	18.8	19.18	2.0 - 12.0	_	4.86	0	14.32
D19	09/29/99	18.8	19.13	2.0 - 12.0		4.05	0	15.08
D20	09/29/99	18.5	18.90	2.0 - 12.0		4.62	0	14.28
D21	09/29/99	18.8	19.23	2.0 - 12.0		4.32	0	14.91
D22	09/29/99	19.9	20.30	2.0 - 12.0		6.51	0	13.79
D23	09/29/99	18.7	19.07	2.5 - 12.5		5.03	0	14.04
D24	09/29/99	18.5	18.84	2.5 - 12.5	_	4.52	0	14.32
MW6	09/29/99	19.6	19.40	2.9 - 12.9	_	4.88	0	14.52
MW11	09/29/99	18.4	18.09	2.3 - 12.3	_	5.31	0	12.78
MW60	09/29/99	19.9	19.70	3.0 - 13.0		5.94	0	13.76
MW61	09/29/99	20.0	19.73	3.0 - 13.0		5.95	0	13.78
MW63	09/29/99	19.7	19.55	4.0 - 14.0		6.04	0	13.51
MW64	09/29/99	18.4	18.18	3.0 - 13.0		4.52	0	13.66
P1	09/29/99	19.0	19.42	2.5 - 12.5		6.13	0	13.29
P2	09/29/99	20.0	20.34	2.5 - 12.5		6.60	0	13.74
P3	09/29/99	19.5	19.91	2.5 - 12.5		6.37	0	13.54
P4	09/29/99	19.4	19.79	2.0 - 12.0		6.01	0	13.78
P5	09/29/99	19.5	19.84	2.5 - 12.5		5.16	0	14.68

NOTES:

BGS Below ground surface

BTOC Below top of casing

		Eleva (feet N		Depth of	Depth of Free	Water	Product	Groundwater
Well	Date	Ground	Top of	Screened Interval	r ree Product	Depth	Thickness	Elevation
Number	Measured	Surface	Casing		(feet BTOC)	(feet BTOC)	(feet)	(feet MSL)
	112000000000	Surface			Event – Octobe	· ·	(1000)	(1000 112022)
D1	10/27/99	19.7	20.07	2.0 - 12.0		6.92	0	13.15
D2	10/27/99	19.3	19.60	2.0 - 12.0		6.49	0	13.11
D3	10/27/99	19.4	19.69	2.0 - 12.0		6.44	0	13.25
D4	10/27/99	19.4	19.66	2.0 - 12.0		6.36	0	13.30
D5	10/27/99	19.5	19.88	2.0 - 12.0		6.81	0	13.07
D6	10/27/99	19.3	19.66	2.0 - 12.0	6.33	7.48	1.15	12.18
D7	10/27/99	19.0	19.35	2.0 - 12.0	5.82	6.20	0.38	13.15
D8	10/27/99	19.3	19.60	2.0 - 12.0	6.07	6.52	0.45	13.08
D9	10/27/99	19.7	20.02	2.0 - 12.0		6.56	0	13.46
D10	10/27/99	19.2	19.57	2.0 - 12.0	6.06	7.80	1.74	11.77
D11	10/27/99	19.2	19.57	2.0 - 12.0	6.05	7.04	0.99	12.53
D12	10/27/99	18.8	19.14	2.0 - 12.0		4.54	0	14.60
D13	10/27/99	18.7	19.02	2.0 - 12.0		4.64	0	14.38
D14	10/27/99	19.2	19.57	2.0 - 12.0		5.07	0	14.50
D15	10/27/99	20.0	20.41	2.0 - 12.0	6.31	6.77	0.46	13.64
D16	10/27/99	18.8	19.13	2.0 - 12.0	5.51	7.22	1.71	11.91
D17	10/27/99	18.9	19.22	2.0 - 12.0	5.74	6.22	0.48	13.00
D18	10/27/99	18.8	19.18	2.0 - 12.0		5.45	0	13.73
D19	10/27/99	18.8	19.13	2.0 - 12.0		4.45	0	14.68
D20	10/27/99	18.5	18.90	2.0 - 12.0		5.51	0	13.39
D21	10/27/99	18.8	19.23	2.0 - 12.0		4.61	0	14.62
D22	10/27/99	19.9	20.30	2.0 - 12.0	_	7.2	0	13.10
D23	10/27/99	18.7	19.07	2.5 - 12.5		5.89	0	13.18
D24	10/27/99	18.5	18.84	2.5 - 12.5	_	5.32	0	13.52
MW6	10/27/99	19.6	19.4	2.9 - 12.9	_	4.90	0	14.50
MW11	10/27/99	18.4	18.09	2.3 - 12.3		6.11	0	11.98
MW60	10/27/99	19.9	19.70	3.0 - 13.0		6.65	0	13.05
MW61	10/27/99	20.0	19.73	3.0 - 13.0	—	6.41	0	13.32
MW63	10/27/99	19.7	19.55	4.0 - 14.0		6.78	0	12.77
MW64	10/27/99	18.4	18.18	3.0 - 13.0	—	5.34	0	12.84
P1	10/27/99	19.0	19.42	2.5 - 12.5		7.00	0	12.42
P2	10/27/99	20.0	20.34	2.5 - 12.5		7.30	0	13.04
P3	10/27/99	19.5	19.91	2.5 - 12.5		7.24	0	12.67
P4	10/27/99	19.4	19.79	2.0 - 12.0		6.86	0	12.93
P5	10/27/99	19.5	19.84	2.5 - 12.5		5.22	0	14.62

NOTES:

BGS Below ground surface

BTOC Below top of casing

		Eleva (feet N		Depth of Screened	Depth of Free	Water	Product	Groundwater
Well	Date	Ground	Top of	Interval	Product	Depth	Thickness	Elevation
Number	Measured	Surface	Casing	(feet BGS)	(feet BTOC)	(feet BTOC)	(feet)	(feet MSL)
		Builace			Event – Decemb	· /		
D1	12/01/99	19.7	20.07	2.0 - 12.0		8.01	0	12.06
D2	12/01/99	19.3	19.60	2.0 - 12.0		7.52	0	12.08
D3	12/01/99	19.4	19.69	2.0 - 12.0		7.46	0	12.23
D4	12/01/99	19.4	19.66	2.0 - 12.0		7.38	0	12.28
D5	12/01/99	19.5	19.88	2.0 - 12.0		7.92	0	11.96
D6	12/01/99	19.3	19.66	2.0 - 12.0	7.45	8.21	0.76	11.45
D7	12/01/99	19.0	19.35	2.0 - 12.0		7.07	0	12.28
D8	12/01/99	19.3	19.60	2.0 - 12.0		7.27	0	12.33
D9	12/01/99	19.7	20.02	2.0 - 12.0	7.52	7.56	0.04	12.46
D10	12/01/99	19.2	19.57	2.0 - 12.0	7.04	7.60	0.56	11.97
D11	12/01/99	19.2	19.57	2.0 - 12.0	7.19	7.58	0.39	11.99
D12	12/01/99	18.8	19.14	2.0 - 12.0		6.59	0	12.55
D13	12/01/99	18.7	19.02	2.0 - 12.0		6.01	0	13.01
D14	12/01/99	19.2	19.57	2.0 - 12.0		6.71	0	12.86
D15	12/01/99	20.0	20.41	2.0 - 12.0	7.54	7.71	0.17	12.70
D16	12/01/99	18.8	19.13	2.0 - 12.0	6.51	8.08	1.57	11.05
D17	12/01/99	18.9	19.22	2.0 - 12.0	6.71	6.91	0.20	12.31
D18	12/01/99	18.8	19.18	2.0 - 12.0		6.71	0	12.47
D19	12/01/99	18.8	19.13	2.0 - 12.0		5.88	0	13.25
D20	12/01/99	18.5	18.90	2.0 - 12.0		6.41	0	12.49
D21	12/01/99	18.8	19.23	2.0 - 12.0		5.96	0	13.27
D22	12/01/99	19.9	20.30	2.0 - 12.0	_	8.19	0	12.11
D23	12/01/99	18.7	19.07	2.5 - 12.5	_	6.87	0	12.20
D24	12/01/99	18.5	18.84	2.5 - 12.5	_	6.35	0	12.49
MW6	12/01/99	19.6	19.40	2.9 - 12.9	_	7.95	0	11.45
MW11	12/01/99	18.4	18.09	2.3 - 12.3	_	7.01	0	11.08
MW60	12/01/99	19.9	19.70	3.0 - 13.0	_	7.79	0	11.91
MW61	12/01/99	20.0	19.73	3.0 - 13.0	_	7.89	0	11.84
MW63	12/01/99	19.7	19.55	4.0 - 14.0	_	7.71	0	11.84
MW64	12/01/99	18.4	18.18	3.0 - 13.0	_	6.24	0	11.94
P1	12/01/99	19.0	19.42	2.5 - 12.5	_	7.87	0	11.55
P2	12/01/99	20.0	20.34	2.5 - 12.5	_	8.35	0	11.99
P3	12/01/99	19.5	19.91	2.5 - 12.5	_	8.15	0	11.76
P4	12/01/99	19.4	19.79	2.0 - 12.0		7.87	0	11.92
P5	12/01/99	19.5	19.84	2.5 - 12.5		6.73	0	13.11

NOTES:

BGS Below ground surface

BTOC Below top of casing

		Eleva (feet N		Depth of Screened	Depth of	Water	Product	Groundwater
Well	Date	Ground	Top of	Interval	Free Product	Depth	Thickness	Elevation
Number	Measured	Surface	Casing	(feet BGS)	(feet BTOC)	(feet BTOC)	(feet)	(feet MSL)
		Builace	U	· · · /	z Event – Janua	· · ·		()
D1	01/04/00	19.7	20.07	2.0 - 12.0		7.89	0	12.18
D2	01/04/00	19.3	19.60	2.0 - 12.0		7.38	0	12.22
D3	01/04/00	19.4	19.69	2.0 - 12.0		7.35	0	12.34
 D4	01/04/00	19.4	19.66	2.0 - 12.0		7.24	0	12.42
D5	01/04/00	19.5	19.88	2.0 - 12.0		7.71	0	12.17
D6	01/04/00	19.3	19.66	2.0 - 12.0	7.32	7.78	0.46	11.88
D7	01/04/00	19.0	19.35	2.0 - 12.0		6.9	0	12.45
D8	01/04/00	19.3	19.60	2.0 - 12.0	7.11	7.12	0.01	12.48
D9	01/04/00	19.7	20.02	2.0 - 12.0		7.45	0	12.57
D10	01/04/00	19.2	19.57	2.0 - 12.0	7.21	7.67	0.46	11.90
D11	01/04/00	19.2	19.57	2.0 - 12.0	7.18	7.42	0.24	12.15
D12	01/04/00	18.8	19.14	2.0 - 12.0		6.4	0	12.74
D13	01/04/00	18.7	19.02	2.0 - 12.0		6.05	0	12.97
D14	01/04/00	19.2	19.57	2.0 - 12.0		6.72	0	12.85
D15	01/04/00	20.0	20.41	2.0 - 12.0		7.57	0	12.84
D16	01/04/00	18.8	19.13	2.0 - 12.0	6.70	7.23	0.53	11.90
D17	01/04/00	18.9	19.22	2.0 - 12.0	6.45	6.87	0.42	12.35
D18	01/04/00	18.8	19.18	2.0 - 12.0		6.67	0	12.51
D19	01/04/00	18.8	19.13	2.0 - 12.0		5.94	0	13.19
D20	01/04/00	18.5	18.90	2.0 - 12.0		6.45	0	12.45
D21	01/04/00	18.8	19.23	2.0 - 12.0		6.03	0	13.20
D22	01/04/00	19.9	20.30	2.0 - 12.0		8.12	0	12.18
D23	01/04/00	18.7	19.07	2.5 - 12.5		6.79	0	12.28
D24	01/04/00	18.5	18.84	2.5 - 12.5	sheen	6.30	sheen	12.54
MW6	01/04/00	19.6	19.40	2.9 - 12.9		6.03	0	13.37
MW11	01/04/00	18.4	18.09	2.3 - 12.3		below pump		below pump
MW60	01/04/00	19.9	19.70	3.0 - 13.0	_	7.57	0	12.13
MW61	01/04/00	20.0	19.73	3.0 - 13.0	_	7.54	0	12.19
MW63	01/04/00	19.7	19.55	4.0 - 14.0	_	7.67	0	11.88
MW64	01/04/00	18.4	18.18	3.0 - 13.0		6.29	0	11.89
P1	01/04/00	19.0	19.42	2.5 - 12.5		7.84	0	11.58
P2	01/04/00	20.0	20.34	2.5 - 12.5	—	8.24	0	12.10
P3	01/04/00	19.5	19.91	2.5 - 12.5		8.08	0	11.83
P4	01/04/00	19.4	19.79	2.0 - 12.0		7.72	0	12.07
P5	01/04/00	19.5	19.84	2.5 - 12.5		6.83	0	13.01

NOTES:

BGS Below ground surface

BTOC Below top of casing

		Eleva (feet N		Depth of Screened	Depth of Free	Water	Product	Groundwater
Well	Date	Ground	Top of	Interval	Product	Depth	Thickness	Elevation
Number	Measured	Surface	Casing	(feet BGS)	(feet BTOC)	(feet BTOC)	(feet)	(feet MSL)
		Surface	0	``````````````````````````````````````	g Event – Marc	h 2000		
D1	03/27/00	19.7	20.07	2.0 - 12.0		6.97	0	13.10
D2	03/27/00	19.3	19.60	2.0 - 12.0	_	6.67	0	12.93
D3	03/27/00	19.4	19.69	2.0 - 12.0		6.76	0	12.93
D4	03/27/00	19.4	19.66	2.0 - 12.0		6.82	0	12.84
D5	03/27/00	19.5	19.88	2.0 - 12.0		7.02	0	12.86
D6	03/27/00	19.3	19.66	2.0 - 12.0	6.49	7.59	1.10	12.07
D7	03/27/00	19.0	19.35	2.0 - 12.0		6.80	0	12.55
D8	03/27/00	19.3	19.60	2.0 - 12.0		6.85	0	12.75
D9	03/27/00	19.7	20.02	2.0 - 12.0		6.90	0	13.12
D10	03/27/00	19.2	19.57	2.0 - 12.0	6.38	7.79	1.41	11.78
D11	03/27/00	19.2	19.57	2.0 - 12.0	6.56	6.72	0.16	12.85
D12	03/27/00	18.8	19.14	2.0 - 12.0		3.58	0	15.56
D13	03/27/00	18.7	19.02	2.0 - 12.0		5.34	0	13.68
D14	03/27/00	19.2	19.57	2.0 - 12.0		6.28	0	13.29
D15	03/27/00	20.0	20.41	2.0 - 12.0		6.79	0	13.62
D16	03/27/00	18.8	19.13	2.0 - 12.0		6.15	0	12.98
D17	03/27/00	18.9	19.22	2.0 - 12.0		6.12	0	13.10
D18	03/27/00	18.8	19.18	2.0 - 12.0		5.70	0	13.48
D19	03/27/00	18.8	19.13	2.0 - 12.0		4.49	0	14.64
D20	03/27/00	18.5	18.90	2.0 - 12.0		5.76	0	13.14
D21	03/27/00	18.8	19.23	2.0 - 12.0		5.01	0	14.22
D22	03/27/00	19.9	20.30	2.0 - 12.0		7.39	0	12.91
D23	03/27/00	18.7	19.07	2.5 - 12.5		6.14	0	12.93
D24	03/27/00	18.5	18.84	2.5 - 12.5	5.45	6.28	0.83	12.56
MW6	03/27/00	19.6	19.40	2.9 - 12.9		5.23	0	14.17
MW11	03/27/00	18.4	18.09	2.3 - 12.3		6.51	0	11.58
MW60	03/27/00	19.9	19.70	3.0 - 13.0		7.01	0	12.69
MW61	03/27/00	20.0	19.73	3.0 - 13.0		6.87	0	12.86
MW63	03/27/00	19.7	19.55	4.0 - 14.0		7.17	0	12.38
MW64	03/27/00	18.4	18.18	3.0 - 13.0	NM	NM	NM	NM
P1	03/27/00	19.0	19.42	2.5 - 12.5		7.19	0	12.23
P2	03/27/00	20.0	20.34	2.5 - 12.5		7.54	0	12.80
P3	03/27/00	19.5	19.91	2.5 - 12.5		7.4	0	12.51
P4	03/27/00	19.4	19.79	2.0 - 12.0		7.07	0	12.72
P5	03/27/00	19.5	19.84	2.5 - 12.5		5.81	0	14.03

NOTES:

BGS Below ground surface

BTOC Below top of casing

MSL Mean sea level

		Eleva (feet N		Depth of Screened	Depth of Free	Water	Product	Groundwater
Well	Date	Ground	Top of	Interval	Product	Depth	Thickness	Elevation
Number	Measured	Surface	Casing	(feet BGS)	(feet BTOC)	(feet BTOC)	(feet)	(feet MSL)
	1	Surface	0		g Event – May	2000		
D1	05/22/00	19.7	20.07	2.0 - 12.0		7.87	0	12.20
D2	05/22/00	19.3	19.60	2.0 - 12.0		7.35	0	12.25
D3	05/22/00	19.4	19.69	2.0 - 12.0		7.35	0	12.34
D4	05/22/00	19.4	19.66	2.0 - 12.0		7.25	0	12.41
D5	05/22/00	19.5	19.88	2.0 - 12.0		7.69	0	12.19
D6	05/22/00	19.3	19.66	2.0 - 12.0		7.41	0	12.25
D7	05/22/00	19.0	19.35	2.0 - 12.0		6.79	0	12.56
D8	05/22/00	19.3	19.60	2.0 - 12.0		7.11	0	12.49
D9	05/22/00	19.7	20.02	2.0 - 12.0		7.51	0	12.51
D10	05/22/00	19.2	19.57	2.0 - 12.0	7.28	7.45	0.17	12.12
D11	05/22/00	19.2	19.57	2.0 - 12.0	_	7.22	0	12.35
D12	05/22/00	18.8	19.14	2.0 - 12.0		5.57	0	13.57
D13	05/22/00	18.7	19.02	2.0 - 12.0		5.00	0	14.02
D14	05/22/00	19.2	19.57	2.0 - 12.0		6.52	0	13.05
D15	05/22/00	20.0	20.41	2.0 - 12.0		7.46	0	12.95
D16	05/22/00	18.8	19.13	2.0 - 12.0		6.78	0	12.35
D17	05/22/00	18.9	19.22	2.0 - 12.0		6.78	0	12.44
D18	05/22/00	18.8	19.18	2.0 - 12.0	6.61	6.62	0.01	12.56
D19	05/22/00	18.8	19.13	2.0 - 12.0	_	5.85	0	13.28
D20	05/22/00	18.5	18.90	2.0 - 12.0	_	6.46	0	12.44
D21	05/22/00	18.8	19.23	2.0 - 12.0		5.93	0	13.30
D22	05/22/00	19.9	20.30	2.0 - 12.0	_	8.10	0	12.20
D23	05/22/00	18.7	19.07	2.5 - 12.5		6.78	0	12.29
D24	05/22/00	18.5	18.84	2.5 - 12.5		6.30	0	12.54
MW6	05/22/00	19.6	19.4	2.9 - 12.9	_	5.83	0	13.57
MW11	05/22/00	18.4	18.09	2.3 - 12.3		6.96	0	11.13
MW60	05/22/00	19.9	19.70	3.0 - 13.0	_	7.63	0	12.07
MW61	05/22/00	20.0	19.73	3.0 - 13.0		7.54	0	12.19
MW63	05/22/00	19.7	19.55	4.0 - 14.0		7.73	0	11.82
MW64	05/22/00	18.4	18.18	3.0 - 13.0	NM	NM	NM	NM
P1	05/22/00	19.0	19.42	2.5 - 12.5		7.73	0	11.69
P2	05/22/00	20.0	20.34	2.5 - 12.5		8.19	0	12.15
P3	05/22/00	19.5	19.91	2.5 - 12.5		8.01	0	11.90
P4	05/22/00	19.4	19.79	2.0 - 12.0		7.68	0	12.11
P5	05/22/00	19.5	19.84	2.5 - 12.5		6.69	0	13.15

NOTE:

BGS Below ground surface

BTOC Below top of casing

MSL Mean sea level

		Eleva		Depth of	Depth of	Water	Due due et	Crossed and the
XX7 - 11	Dete	(feet N	/	Screened	Free		Product	Groundwater
Well	Date	Ground	Top of	Interval	Product	Depth	Thickness	Elevation
Number	Measured	Surface	Casing	(feet BGS)	(feet BTOC)	(feet BTOC)	(feet)	(feet MSL)
			T	enth Samplin	ng Event – July	2000		
D1	07/19/00	19.7	20.07	2.0 - 12.0		8.17	0	11.90
D2	07/19/00	19.3	19.60	2.0 - 12.0	_	7.68	0	11.92
D3	07/19/00	19.4	19.69	2.0 - 12.0	_	7.76	0	11.93
D4	07/19/00	19.4	19.66	2.0 - 12.0	_	7.84	0	11.82
D5	07/19/00	19.5	19.88	2.0 - 12.0		7.73	0	12.15
D6	07/19/00	19.3	19.66	2.0 - 12.0		7.79	0	11.87
D7	07/19/00	19.0	19.35	2.0 - 12.0		7.19	0	12.16
D8	07/19/00	19.3	19.60	2.0 - 12.0		7.61	0	11.99
D9	07/19/00	19.7	20.02	2.0 - 12.0		7.79	0	12.23
D10	07/19/00	19.2	19.57	2.0 - 12.0	7.58	7.85	0.27	11.72
D11	07/19/00	19.2	19.57	2.0 - 12.0	7.49	7.55	0.06	12.02
D12	07/19/00	18.8	19.14	2.0 - 12.0		6.67	0	12.47
D13	07/19/00	18.7	19.02	2.0 - 12.0		6.22	0	12.80
D14	07/19/00	19.2	19.57	2.0 - 12.0		7.10	0	12.47
D15	07/19/00	20.0	20.41	2.0 - 12.0		7.80	0	12.61
D16	07/19/00	18.8	19.13	2.0 - 12.0		7.06	0	12.07
D17	07/19/00	18.9	19.22	2.0 - 12.0		7.07	0	12.15
D18	07/19/00	18.8	19.18	2.0 - 12.0	_	7.28	0	11.90
D19	07/19/00	18.8	19.13	2.0 - 12.0		6.09	0	13.04
D20	07/19/00	18.5	18.90	2.0 - 12.0		6.74	0	12.16
D21	07/19/00	18.8	19.23	2.0 - 12.0		6.10	0	13.13
D22	07/19/00	19.9	20.30	2.0 - 12.0		8.41	0	11.89
D23	07/19/00	18.7	19.07	2.5 - 12.5		7.02	0	12.05
D24	07/19/00	18.5	18.84	2.5 - 12.5		6.57	0	12.27
MW6	07/19/00	19.6	19.4	2.9 - 12.9	NM	NM	NM	NM
MW11	07/19/00	18.4	18.09	2.3 - 12.3		below pump		below pump
MW60	07/19/00	19.9	19.70	3.0 - 13.0		7.85	0	11.85
MW61	07/19/00	20.0	19.73	3.0 - 13.0		7.88	0	11.85
MW63	07/19/00	19.7	19.55	4.0 - 14.0		below pump		below pump
MW64	07/19/00	18.4	18.18	3.0 - 13.0	_	6.53	0	11.65
P1	07/19/00	19.0	19.42	2.5 - 12.5	_	8.03	0	11.39
P2	07/19/00	20.0	20.34	2.5 - 12.5		8.50	0	11.84
P3	07/19/00	19.5	19.91	2.5 - 12.5		8.35	0	11.56
P4	07/19/00	19.4	19.79	2.0 - 12.0		7.87	0	11.92
P5	07/19/00	19.5	19.84	2.5 - 12.5		7.03	0	12.81
MW8	07/25/00	19.0	18.58	3.5 - 13.5		8.91	0	9.67
MW8A	07/25/00	19.0	18.67	4.0 - 14.0		9.76	0	8.91
MW59	07/25/00	18.8	18.61	2.0 - 12.0	9.20	9.28	0.08	9.33
PR-1	07/25/00	18.9	18.64	3.6 - 13.6		8.04	0	10.6
PR-2	07/25/00	18.9	18.54	4.0 - 14.0	8.57	8.58	0.01	9.96
PR-3	07/25/00	18.9	18.68	2.0 - 17.0		8.37	0	10.31
PR-4	07/25/00	19.1	19.01	2.0 - 17.0		8.82	0	10.19
PR-5	07/25/00	19.4	19.11	2.0 - 17.0		9.08	0	10.03

NOTES:

BGS Below ground surface

BTOC Below top of casing

MSL Mean sea level

		Eleva (feet N		Depth of Screened	Depth of Free	Water	Product	Groundwater
Well	Date	Ground	Top of	Interval	Product	Depth	Thickness	Elevation
Number	Measured	Surface	Casing	(feet BGS)	(feet BTOC)	(feet BTOC)	(feet)	(feet MSL)
	•		Eleve	nth Sampling	Event – Septen	nber 2000		•
D1	09/25/00	19.7	20.07	2.0 - 12.0		6.47	0	13.60
D2	09/25/00	19.3	19.60	2.0 - 12.0		5.94	0	13.66
D3	09/25/00	19.4	19.69	2.0 - 12.0		5.93	0	13.76
D4	09/25/00	19.4	19.66	2.0 - 12.0		5.89	0	13.77
D5	09/25/00	19.5	19.88	2.0 - 12.0		6.29	0	13.59
D6	09/25/00	19.3	19.66	2.0 - 12.0		6.00	0	13.66
D7	09/25/00	19.0	19.35	2.0 - 12.0		5.38	0	13.97
D8	09/25/00	19.3	19.60	2.0 - 12.0		5.63	0	13.97
D9	09/25/00	19.7	20.02	2.0 - 12.0		6.06	0	13.96
D10	09/25/00	19.2	19.57	2.0 - 12.0	5.71	6.42	0.71	13.15
D11	09/25/00	19.2	19.57	2.0 - 12.0	5.34	6.96	1.62	12.61
D12	09/25/00	18.8	19.14	2.0 - 12.0		3.03	0	16.11
D13	09/25/00	18.7	19.02	2.0 - 12.0		3.95	0	15.07
D14	09/25/00	19.2	19.57	2.0 - 12.0		4.71	0	14.86
D15	09/25/00	20.0	20.41	2.0 - 12.0		6.01	0	14.40
D16	09/25/00	18.8	19.13	2.0 - 12.0	_	5.29	0	13.84
D17	09/25/00	18.9	19.22	2.0 - 12.0	5.23	5.24	0.01	13.98
D18	09/25/00	18.8	19.18	2.0 - 12.0	_	4.78	0	14.40
D19	09/25/00	18.8	19.13	2.0 - 12.0	_	3.97	0	15.16
D20	09/25/00	18.5	18.90	2.0 - 12.0	_	4.93	0	13.97
D21	09/25/00	18.8	19.23	2.0 - 12.0	_	4.17	0	15.06
D22	09/25/00	19.9	20.30	2.0 - 12.0	_	6.74	0	13.56
D23	09/25/00	18.7	19.07	2.5 - 12.5	_	5.32	0	13.75
D24	09/25/00	18.5	18.84	2.5 - 12.5		4.74	0	14.10
MW6	09/25/00	19.6	19.4	2.9 - 12.9	_	4.78	0	14.62
MW11	09/25/00	18.4	18.09	2.3 - 12.3	_	5.82	0	12.27
MW60	09/25/00	19.9	19.70	3.0 - 13.0	_	6.16	0	13.54
MW61	09/25/00	20.0	19.73	3.0 - 13.0	_	6.16	0	13.57
MW63	09/25/00	19.7	19.55	4.0 - 14.0		6.33	0	13.22
MW64	09/25/00	18.4	18.18	3.0 - 13.0	NM	NM	NM	NM
P1	09/25/00	19.0	19.42	2.5 - 12.5		6.56	0	12.86
P2	09/25/00	20.0	20.34	2.5 - 12.5		6.83	0	13.51
P3	09/25/00	19.5	19.91	2.5 - 12.5		6.69	0	13.22
P4	09/25/00	19.4	19.79	2.0 - 12.0		6.29	0	13.50
P5	09/25/00	19.5	19.84	2.5 - 12.5		5.02	0	14.82

NOTES:

BGS Below ground surface

BTOC Below top of casing

MSL Mean sea level

		Eleva		Depth of	Depth of	Water	Product	Groundwater
Well	Date	(feet M	/	Screened	Free Product	Depth	Thickness	Elevation
Number	Measured	Ground	Top of	Interval (feet BGS)	(feet BTOC)	(feet BTOC)	(feet)	(feet MSL)
Tumber	Wicasureu	Surface	Casing	· · · ·	· · · · ·	、	(Ieet)	(Itel MDL)
D1	11/29/00	19.7	20.07	2.0 – 12.0	t – November/L		0	11.02
DI D2	11/28/00 11/28/00	19.7	19.60	2.0 - 12.0 2.0 - 12.0		8.24 7.69	0	11.83 11.91
D2 D3	11/28/00	19.3	19.60	2.0 - 12.0 2.0 - 12.0		7.69	0	11.91
		19.4		2.0 - 12.0 2.0 - 12.0		7.60	0	
D4	11/28/00		19.66				-	12.06
D5	11/28/00	19.5	19.88	2.0 - 12.0		8.03	0	11.85
D6	11/28/00	19.3	19.66	2.0 - 12.0		7.77	0	11.89
D7	11/28/00	19.0	19.35	2.0 - 12.0		7.24	0	12.11
D8	11/28/00	19.3	19.60	2.0 - 12.0		7.47	0	12.13
D9	11/28/00	19.7	20.02	2.0 - 12.0		7.81	0	12.21
D10	11/28/00	19.2	19.57	2.0 - 12.0	7.64	7.69	0.05	11.88
D11	11/28/00	19.2	19.57	2.0 - 12.0		7.55	0	12.02
D12	11/28/00	18.8	19.14	2.0 - 12.0	_	6.82	0	12.32
D13	11/28/00	18.7	19.02	2.0 - 12.0	—	5.38	0	13.64
D14	11/28/00	19.2	19.57	2.0 - 12.0		6.97	0	12.60
D15	11/28/00	20.0	20.41	2.0 - 12.0		7.9	0	12.51
D16	11/28/00	18.8	19.13	2.0 - 12.0	_	7.11	0	12.02
D17	11/28/00	18.9	19.22	2.0 - 12.0	_	7.09	0	12.13
D18	11/28/00	18.8	19.18	2.0 - 12.0	_	7.04	0	12.14
D19	11/28/00	18.8	19.13	2.0 - 12.0		6.43	0	12.70
D20	11/28/00	18.5	18.90	2.0 - 12.0		6.80	0	12.10
D21	11/28/00	18.8	19.23	2.0 - 12.0	_	6.49	0	12.74
D22	11/28/00	19.9	20.30	2.0 - 12.0	_	8.46	0	11.84
D23	11/28/00	18.7	19.07	2.5 - 12.5	_	7.15	0	11.92
D24	11/28/00	18.5	18.84	2.5 - 12.5		6.60	0	12.24
MW6	11/28/00	19.6	19.4	2.9 - 12.9		5.42	0	13.98
MW11	11/28/00	18.4	18.09	2.3 - 12.3		7.23	0	10.86
MW60	11/28/00	19.9	19.70	3.0 - 13.0	_	7.93	0	11.77
MW61	11/28/00	20.0	19.73	3.0 - 13.0	_	7.88	0	11.85
MW63	11/28/00	19.7	19.55	4.0 - 14.0		8.02	0	11.53
MW64	11/28/00	18.4	18.18	3.0 - 13.0		6.61	0	11.57
P1	11/28/00	19.0	19.42	2.5 - 12.5		8.17	0	11.25
P2	11/28/00	20.0	20.34	2.5 - 12.5		8.60	0	11.74
P3	11/28/00	19.5	19.91	2.5 - 12.5		8.41	0	11.50
P4	11/28/00	19.4	19.79	2.0 - 12.0		8.06	0	11.73
P5	11/28/00	19.5	19.84	2.5 - 12.5		7.28	0	12.56

NOTES:

BGS Below ground surface

BTOC Below top of casing

		Eleva (feet N		Depth of Screened	Depth of Free	Water	Product	Groundwater
Well	Date	Ground	Top of	Interval	Product	Depth	Thickness	Elevation
Number	Measured	Surface	Casing	(feet BGS)	(feet BTOC)	(feet BTOC)	(feet)	(feet MSL)
		Surface			g Event – Febr	、	()	()
D1	02/01/01	19.7	20.07	2.0 - 12.0	g Lveni – Febr	8.19	0	11.88
D1 D2	02/01/01	19.7	19.60	2.0 - 12.0 2.0 - 12.0		7.95	0	11.65
D2 D3	02/01/01	19.3	19.69	2.0 - 12.0 2.0 - 12.0	7.79	7.84	0.05	11.85
D3 D4	02/01/01	19.4	19.66	2.0 - 12.0 2.0 - 12.0		7.48	0.05	12.18
D4 D5	02/01/01	19.5	19.88	2.0 - 12.0 2.0 - 12.0		7.94	0	11.94
D5 D6	02/01/01	19.3	19.66	2.0 - 12.0 2.0 - 12.0	7.95	7.94	0.01	11.70
D0 D7	02/01/01	19.0	19.00	2.0 - 12.0 2.0 - 12.0		8.13	0.01	11.70
D7 D8	02/01/01	19.0	19.55	2.0 - 12.0 2.0 - 12.0		7.49	0	12.11
D8 D9	02/01/01	19.3	20.02	2.0 - 12.0 2.0 - 12.0		7.49	0	12.53
D9 D10	02/01/01	19.7	19.57	2.0 - 12.0 2.0 - 12.0	7.48	8.09	0.61	12.55
D10 D11	02/01/01	19.2	19.57	2.0 - 12.0 2.0 - 12.0	7.60	8.51	0.01	11.48
D11 D12	02/01/01	19.2	19.37	2.0 - 12.0 2.0 - 12.0	7.00	5.61	0.91	13.53
D12 D13	02/01/01	18.7	19.14	2.0 - 12.0 2.0 - 12.0		6.98	0	13.33
D13 D14	02/01/01	18.7	19.02	2.0 - 12.0 2.0 - 12.0		6.78	0	12.04
D14 D15	02/01/01	20.0	20.41	2.0 - 12.0 2.0 - 12.0		7.23	0	
D15 D16	02/01/01	18.8	19.13	2.0 - 12.0 2.0 - 12.0		7.23		13.18 11.93
							0	
D17	02/01/01	18.9	19.22	2.0 - 12.0		7.31	0	11.91
D18	02/01/01	18.8	19.18	2.0 - 12.0		7.13	0	12.05
D19	02/01/01	18.8	19.13	2.0 - 12.0		5.88	0	13.25
D20	02/01/01	18.5	18.90	2.0 - 12.0		6.70	0	12.20
D21	02/01/01	18.8	19.23	2.0 - 12.0		5.71	0	13.52
D22	02/01/01	19.9	20.30	2.0 - 12.0		8.33	0	11.97
D23	02/01/01	18.7	19.07	2.5 - 12.5		7.00	0	12.07
D24	02/01/01	18.5	18.84	2.5 - 12.5		6.71	0	12.13
MW6	02/01/01	19.6	19.4	2.9 - 12.9		5.92	0	13.48
MW11	02/01/01	18.4	18.09	2.3 - 12.3		6.95	0	11.14
MW60	02/01/01	19.9	19.70	3.0 - 13.0		below pump		below pump
MW61	02/01/01	20.0	19.73	3.0 - 13.0	—	7.82	0	11.91
MW63	02/01/01	19.7	19.55	4.0 - 14.0	—	7.77	0	11.78
MW64	02/01/01	18.4	18.18	3.0 - 13.0		6.32	0	11.86
P1	02/01/01	19.0	19.42	2.5 - 12.5		7.83	0	11.59
P2	02/01/01	20.0	20.34	2.5 - 12.5		8.40	0	11.94
P3	02/01/01	19.5	19.91	2.5 - 12.5		8.12	0	11.79
P4	02/01/01	19.4	19.79	2.0 - 12.0	—	7.84	0	11.95
P5	02/01/01	19.5	19.84	2.5 - 12.5		6.59	0	13.25

NOTES:

BGS Below ground surface

BTOC Below top of casing

		Eleva (feet N		Depth of Screened	Depth of Free	Water	Product	Groundwater
Well	Date	Ground	Top of	Interval	Product	Depth	Thickness	Elevation
Number	Measured	Surface	Casing	(feet BGS)	(feet BTOC)	(feet BTOC)	(feet)	(feet MSL)
			0		ling Event – Ap	oril 2001		I
D1	04/07/01	19.7	20.07	2.0 - 12.0		7.94	0	12.13
D2	04/07/01	19.3	19.60	2.0 - 12.0		7.71	0	11.89
D3	04/07/01	19.4	19.69	2.0 - 12.0		7.37	0	12.32
D4	04/07/01	19.4	19.66	2.0 - 12.0		7.09	0	12.57
D5	04/07/01	19.5	19.88	2.0 - 12.0		7.67	0	12.21
D6	04/07/01	19.3	19.66	2.0 - 12.0		7.78	0	11.88
D7	04/07/01	19.0	19.35	2.0 - 12.0		7.44	0	11.91
D8	04/07/01	19.3	19.60	2.0 - 12.0		6.91	0	12.69
D9	04/07/01	19.7	20.02	2.0 - 12.0		7.16	0	12.86
D10	04/07/01	19.2	19.57	2.0 - 12.0		7.43	0	12.14
D11	04/07/01	19.2	19.57	2.0 - 12.0	7.48	8.32	0.84	11.25
D12	04/07/01	18.8	19.14	2.0 - 12.0		5.73	0	13.41
D13	04/07/01	18.7	19.02	2.0 - 12.0		5.81	0	13.21
D14	04/07/01	19.2	19.57	2.0 - 12.0		6.03	0	13.54
D15	04/07/01	20.0	20.41	2.0 - 12.0		6.82	0	13.59
D16	04/07/01	18.8	19.13	2.0 - 12.0		6.44	0	12.69
D17	04/07/01	18.9	19.22	2.0 - 12.0		7.33	0	11.89
D18	04/07/01	18.8	19.18	2.0 - 12.0		6.24	0	12.94
D19	04/07/01	18.8	19.13	2.0 - 12.0		5.64	0	13.49
D20	04/07/01	18.5	18.90	2.0 - 12.0		6.29	0	12.61
D21	04/07/01	18.8	19.23	2.0 - 12.0		5.35	0	13.88
D22	04/07/01	19.9	20.30	2.0 - 12.0	NM	NM	NM	NM
D23	04/07/01	18.7	19.07	2.5 - 12.5		6.63	0	12.44
D24	04/07/01	18.5	18.84	2.5 - 12.5		6.51	0	12.33
MW6	04/07/01	19.6	19.4	2.9 - 12.9	NM	NM	NM	NM
MW11	04/07/01	18.4	18.09	2.3 - 12.3		6.8	0	11.29
MW60	04/07/01	19.9	19.70	3.0 - 13.0		7.47	0	12.23
MW61	04/07/01	20.0	19.73	3.0 - 13.0		7.39	0	12.34
MW63	04/07/01	19.7	19.55	4.0 - 14.0		7.44	0	12.11
MW64	04/07/01	18.4	18.18	3.0 - 13.0		5.95	0	12.23
P1	04/07/01	19.0	19.42	2.5 - 12.5		7.59	0	11.83
P2	04/07/01	20.0	20.34	2.5 - 12.5		8.06	0	12.28
P3	04/07/01	19.5	19.91	2.5 - 12.5		7.82	0	12.09
P4	04/07/01	19.4	19.79	2.0 - 12.0		7.53	0	12.26
P5	04/07/01	19.5	19.84	2.5 - 12.5		6.10	0	13.74

NOTES:

BGS Below ground surface

BTOC Below top of casing

MSL Mean sea level

		Eleva (feet N		Depth of Screened	Depth of Free	Water	Product	Groundwater
Well	Date	Ground	Top of	Interval	Product	Depth	Thickness	Elevation
Number	Measured	Surface	Casing	(feet BGS)	(feet BTOC)	(feet BTOC)	(feet)	(feet MSL)
		Builace	2		ing Event – Jun	、 、		()
D1	06/08/01	19.7	20.07	2.0 - 12.0	<u> </u>	8.26	0	11.81
D1 D2	06/08/01	19.3	19.60	2.0 - 12.0 2.0 - 12.0		7.71	0	11.89
D3/PR-6	06/08/01	19.4	19.13	2.5 - 12.5		below pump	Ū	below pump
D3/11C 0	06/08/01	19.4	19.66	2.0 - 12.0		7.61	0	12.05
D5	06/08/01	19.5	19.88	2.0 - 12.0		8.04	0	11.84
D6	06/08/01	19.3	19.66	2.0 - 12.0		7.76	0	11.90
D7	06/08/01	19.0	19.35	2.0 - 12.0		7.15	0	12.20
 D8	06/08/01	19.3	19.60	2.0 - 12.0		7.48	0	12.12
D9	06/08/01	19.7	20.02	2.0 - 12.0		7.82	0	12.20
D10	06/08/01	19.2	19.57	2.0 - 12.0		7.64	0	11.93
D11	06/08/01	19.2	19.57	2.0 - 12.0		7.55	0	12.02
D12	06/08/01	18.8	19.14	2.0 - 12.0		6.99	0	12.15
D13	06/08/01	18.7	19.02	2.0 - 12.0		6.41	0	12.61
D14	06/08/01	19.2	19.57	2.0 - 12.0		6.87	0	12.70
D15	06/08/01	20.0	20.41	2.0 - 12.0		7.79	0	12.62
D16	06/08/01	18.8	19.13	2.0 - 12.0		7.08	0	12.05
D17	06/08/01	18.9	19.22	2.0 - 12.0		7.10	0	12.12
D18	06/08/01	18.8	19.18	2.0 - 12.0		7.00	0	12.18
D19	06/08/01	18.8	19.13	2.0 - 12.0		6.29	0	12.84
D20	06/08/01	18.5	18.90	2.0 - 12.0		6.78	0	12.12
D21	06/08/01	18.8	19.23	2.0 - 12.0		6.37	0	12.86
D22	06/08/01	19.9	20.30	2.0 - 12.0		8.48	0	11.82
D23	06/08/01	18.7	19.07	2.5 - 12.5		7.07	0	12.00
D24	06/08/01	18.5	18.84	2.5 - 12.5	_	6.59	0	12.25
MW6	06/08/01	19.6	19.4	2.9 - 12.9	_	6.17	0	13.23
MW11	06/08/01	18.4	18.09	2.3 - 12.3	_	7.27	0	10.82
MW60	06/08/01	19.9	19.70	3.0 - 13.0		below pump		below pump
MW61	06/08/01	20.0	19.73	3.0 - 13.0		7.88	0	11.85
MW63	06/08/01	19.7	19.55	4.0 - 14.0		below pump		below pump
MW64	06/08/01	18.4	18.18	3.0 - 13.0		6.54	0	11.64
P1	06/08/01	19.0	19.42	2.5 - 12.5		8.10	0	11.32
P2	06/08/01	20.0	20.34	2.5 - 12.5		8.58	0	11.76
P3	06/08/01	19.5	19.91	2.5 - 12.5		8.40	0	11.51
P4	06/08/01	19.4	19.79	2.0 - 12.0		8.04	0	11.75
P5	06/08/01	19.5	19.84	2.5 - 12.5		7.10	0	12.74

NOTES:

BGS Below ground surface

BTOC Below top of casing

		Eleva (feet N		Depth of Screened	Depth of Free	Water	Product	Groundwater
Well	Date	Ground	Top of	Interval	Product	Depth	Thickness	Elevation
Number	Measured	Surface	Casing	(feet BGS)	(feet BTOC)	(feet BTOC)	(feet)	(feet MSL)
		Surface	0		ig Event – Aug	ust 2001	<u> </u>	
D1	08/06/01	19.7	20.07	2.0 - 12.0		8.30	0	11.77
D2	08/06/01	19.3	19.60	2.0 - 12.0		7.80	0	11.80
D3/PR-6	08/06/01	19.4	19.13	2.5 - 12.5		7.21	0	11.92
D4	08/06/01	19.4	19.66	2.0 - 12.0		7.68	0	11.98
 D5	08/06/01	19.5	19.88	2.0 - 12.0		8.07	0	11.81
D6	08/06/01	19.3	19.66	2.0 - 12.0		7.81	0	11.85
D7	08/06/01	19.0	19.35	2.0 - 12.0		7.33	0	12.02
D8	08/06/01	19.3	19.60	2.0 - 12.0		7.53	0	12.07
D9	08/06/01	19.7	20.02	2.0 - 12.0		7.87	0	12.15
D10	08/06/01	19.2	19.57	2.0 - 12.0		7.68	0	11.89
D11	08/06/01	19.2	19.57	2.0 - 12.0		7.62	0	11.95
D12	08/06/01	18.8	19.14	2.0 - 12.0		6.99	0	12.15
D13	08/06/01	18.7	19.02	2.0 - 12.0		6.29	0	12.73
D14	08/06/01	19.2	19.57	2.0 - 12.0		6.74	0	12.83
D15	08/06/01	20.0	20.41	2.0 - 12.0		7.70	0	12.71
D16	08/06/01	18.8	19.13	2.0 - 12.0	_	7.09	0	12.04
D17	08/06/01	18.9	19.22	2.0 - 12.0	_	7.12	0	12.10
D18	08/06/01	18.8	19.18	2.0 - 12.0	_	7.00	0	12.18
D19	08/06/01	18.8	19.13	2.0 - 12.0	_	6.14	0	12.99
D20	08/06/01	18.5	18.90	2.0 - 12.0	_	6.71	0	12.19
D21	08/06/01	18.8	19.23	2.0 - 12.0	_	6.17	0	13.06
D22	08/06/01	19.9	20.30	2.0 - 12.0	_	8.53	0	11.77
D23	08/06/01	18.7	19.07	2.5 - 12.5	_	7.08	0	11.99
D24	08/06/01	18.5	18.84	2.5 - 12.5		6.59	0	12.25
MW6	08/06/01	19.6	19.4	2.9 - 12.9		6.09	0	13.31
MW11	08/06/01	18.4	18.09	2.3 - 12.3		7.20	0	10.89
MW60	08/06/01	19.9	19.70	3.0 - 13.0	_	8.94	0	10.76
MW61	08/06/01	20.0	19.73	3.0 - 13.0	_	7.90	0	11.83
MW63	08/06/01	19.7	19.55	4.0 - 14.0		8.00	0	11.55
MW64	08/06/01	18.4	18.18	3.0 - 13.0		6.52	0	11.66
P1	08/06/01	19.0	19.42	2.5 - 12.5		8.11	0	11.31
P2	08/06/01	20.0	20.34	2.5 - 12.5		8.61	0	11.73
P3	08/06/01	19.5	19.91	2.5 - 12.5		8.37	0	11.54
P4	08/06/01	19.4	19.79	2.0 - 12.0		8.04	0	11.75
P5	08/06/01	19.5	19.84	2.5 - 12.5		7.04	0	12.80

NOTES:

BGS Below ground surface

BTOC Below top of casing

		Eleva (feet N		Depth of Screened	Depth of Free	Water	Product	Groundwater
Well	Date	Ground		Interval	r ree Product	Depth	Thickness	Elevation
Number	Measured	Surface	Top of Casing	(feet BGS)	(feet BTOC)	(feet BTOC)	(feet)	(feet MSL)
11011001	11200000100	Surface	2	````	ing Event – Oct	、 、	(1000)	(100011152)
D1	10/03/01	19.7	20.07	2.0 - 12.0	ing Eveni – Oci	8.39	0	11.68
D1 D2	10/03/01	19.7	19.60	2.0 - 12.0 2.0 - 12.0		7.95	0	11.65
D3/PR-6	10/03/01	19.3	19.00	2.0 - 12.0 2.5 - 12.5		below pump	0	below pump
D3/1 K-0	10/03/01	19.4	19.15	2.0 - 12.0		7.57	0	12.09
D4 D5	10/03/01	19.4	19.88	2.0 - 12.0 2.0 - 12.0		8.19	0	11.69
D5	10/03/01	19.3	19.66	2.0 - 12.0 2.0 - 12.0		8.04	0	11.62
D0 D7	10/03/01	19.0	19.00	2.0 - 12.0 2.0 - 12.0		7.26	0	12.09
D7 D8	10/03/01	19.0	19.55	2.0 - 12.0 2.0 - 12.0		7.37	0	12.03
D8 D9	10/03/01	19.3	20.02	2.0 - 12.0 2.0 - 12.0		7.66	0	12.25
D9 D10	10/03/01	19.7	19.57	2.0 - 12.0 2.0 - 12.0		7.75	0	12.30
D10 D11	10/03/01	19.2	19.57	2.0 - 12.0 2.0 - 12.0		7.64	0	11.82
							0	
D12	10/03/01	18.8	19.14	2.0 - 12.0		6.98		12.16
D13	10/03/01	18.7	19.02	2.0 - 12.0		5.94	0	13.08
D14	10/03/01	19.2	19.57	2.0 - 12.0		6.34	0	13.23
D15	10/03/01	20.0	20.41	2.0 - 12.0		7.24	0	13.17
D16	10/03/01	18.8	19.13	2.0 - 12.0		7.07	0	12.06
D17	10/03/01	18.9	19.22	2.0 - 12.0		7.07	0	12.15
D18	10/03/01	18.8	19.18	2.0 - 12.0		6.71	0	12.47
D19	10/03/01	18.8	19.13	2.0 - 12.0		5.71	0	13.42
D20	10/03/01	18.5	18.90	2.0 - 12.0		6.60	0	12.30
D21	10/03/01	18.8	19.23	2.0 - 12.0	—	5.72	0	13.51
D22	10/03/01	19.9	20.30	2.0 - 12.0		8.50	0	11.80
D23	10/03/01	18.7	19.07	2.5 - 12.5		7.03	0	12.04
D24	10/03/01	18.5	18.84	2.5 - 12.5		6.46	0	12.38
MW6	10/03/01	19.6	19.4	2.9 - 12.9	NM	NM	NM	NM
MW11	10/03/01	18.4	18.09	2.3 - 12.3		7.08	0	11.01
MW60	10/03/01	19.9	19.70	3.0 - 13.0		below pump		below pump
MW61	10/03/01	20.0	19.73	3.0 - 13.0	—	7.78	0	11.95
MW63	10/03/01	19.7	19.55	4.0 - 14.0	_	7.99	0	11.56
MW64	10/03/01	18.4	18.18	3.0 - 13.0		8.47	0	9.71
P1	10/03/01	19.0	19.42	2.5 - 12.5		7.99	0	11.43
P2	10/03/01	20.0	20.34	2.5 - 12.5		8.61	0	11.73
P3	10/03/01	19.5	19.91	2.5 - 12.5		8.34	0	11.57
P4	10/03/01	19.4	19.79	2.0 - 12.0		8.12	0	11.67
P5	10/03/01	19.5	19.84	2.5 - 12.5		6.55	0	13.29

NOTES:

BGS Below ground surface

BTOC Below top of casing

MSL Mean sea level

		Eleva (feet N		Depth of Screened	Depth of Free	Water	Product	Groundwater
Well	Date	Ground	Top of	Interval	Product	Depth	Thickness	Elevation
Number	Measured	Surface	Casing	(feet BGS)	(feet BTOC)	(feet BTOC)	(feet)	(feet MSL)
			0	enth Samplin	g Event – Dece	mber 2001		<u> </u>
D1	12/01/01	19.7	20.07	2.0 - 12.0		8.90	0	11.17
D2	12/01/01	19.3	19.60	2.0 - 12.0		8.41	0	11.19
D3/PR-6	12/01/01	19.4	19.13	2.5 - 12.5		7.80	0	11.33
D4	12/01/01	19.4	19.66	2.0 - 12.0		8.25	0	11.41
D5	12/01/01	19.5	19.88	2.0 - 12.0		8.69	0	11.19
D6	12/01/01	19.3	19.66	2.0 - 12.0		8.34	0	11.32
D7	12/01/01	19.0	19.35	2.0 - 12.0		7.92	0	11.43
D8	12/01/01	19.3	19.60	2.0 - 12.0		8.08	0	11.52
D9	12/01/01	19.7	20.02	2.0 - 12.0		8.35	0	11.67
D10	12/01/01	19.2	19.57	2.0 - 12.0		8.27	0	11.30
D11	12/01/01	19.2	19.57	2.0 - 12.0		8.26	0	11.31
D12	12/01/01	18.8	19.14	2.0 - 12.0		7.99	0	11.15
D13	12/01/01	18.7	19.02	2.0 - 12.0		7.09	0	11.93
D14	12/01/01	19.2	19.57	2.0 - 12.0		7.92	0	11.65
D15	12/01/01	20.0	20.41	2.0 - 12.0		8.40	0	12.01
D16	12/01/01	18.8	19.13	2.0 - 12.0		7.65	0	11.48
D17	12/01/01	18.9	19.22	2.0 - 12.0		7.74	0	11.48
D18	12/01/01	18.8	19.18	2.0 - 12.0		7.61	0	11.57
D19	12/01/01	18.8	19.13	2.0 - 12.0		7.02	0	12.11
D20	12/01/01	18.5	18.90	2.0 - 12.0		7.32	0	11.58
D21	12/01/01	18.8	19.23	2.0 - 12.0		6.98	0	12.25
D22	12/01/01	19.9	20.30	2.0 - 12.0		9.09	0	11.21
D23	12/01/01	18.7	19.07	2.5 - 12.5		7.66	0	11.41
D24	12/01/01	18.5	18.84	2.5 - 12.5		7.21	0	11.63
MW6	12/01/01	19.6	19.4	2.9 - 12.9	NM	NM	NM	NM
MW11	12/01/01	18.4	18.09	2.3 - 12.3		7.67	0	10.42
MW60	12/01/01	19.9	19.70	3.0 - 13.0		8.56	0	11.14
MW61	12/01/01	20.0	19.73	3.0 - 13.0		8.19	0	11.54
MW63	12/01/01	19.7	19.55	4.0 - 14.0		8.52	0	11.03
MW64	12/01/01	18.4	18.18	3.0 - 13.0		7.11	0	11.07
P1	12/01/01	19.0	19.42	2.5 - 12.5		8.60	0	10.82
P2	12/01/01	20.0	20.34	2.5 - 12.5		9.18	0	11.16
P3	12/01/01	19.5	19.91	2.5 - 12.5		8.90	0	11.01
P4	12/01/01	19.4	19.79	2.0 - 12.0		8.62	0	11.17
P5	12/01/01	19.5	19.84	2.5 - 12.5		7.67	0	12.17

NOTES:

BGS Below ground surface

BTOC Below top of casing

MSL Mean sea level

		Eleva (feet N		Depth of Screened	Depth of Free	Water	Product	Groundwater
Well	Date	Ground	Top of	Interval	Product	Depth	Thickness	Elevation
Number	Measured	Surface	Casing	(feet BGS)	(feet BTOC)	(feet BTOC)	(feet)	(feet MSL)
			0		ig Event – Febr	uary 2002		L
D1	02/19/02	19.7	20.07	2.0 - 12.0		8.77	0	11.30
D2	02/19/02	19.3	19.60	2.0 - 12.0		8.19	0	11.41
D3/PR-6	02/19/02	19.4	19.13	2.5 - 12.5		7.63	0	11.50
D4	02/19/02	19.4	19.66	2.0 - 12.0		8.07	0	11.59
D5	02/19/02	19.5	19.88	2.0 - 12.0		8.58	0	11.30
D6	02/19/02	19.3	19.66	2.0 - 12.0		8.26	0	11.40
D7	02/19/02	19.0	19.35	2.0 - 12.0		7.82	0	11.53
D8	02/19/02	19.3	19.60	2.0 - 12.0		7.97	0	11.63
D9	02/19/02	19.7	20.02	2.0 - 12.0		8.27	0	11.75
D10	02/19/02	19.2	19.57	2.0 - 12.0		8.22	0	11.35
D11	02/19/02	19.2	19.57	2.0 - 12.0		8.12	0	11.45
D12	02/19/02	18.8	19.14	2.0 - 12.0		7.63	0	11.51
D13	02/19/02	18.7	19.02	2.0 - 12.0		6.99	0	12.03
D14	02/19/02	19.2	19.57	2.0 - 12.0		7.74	0	11.83
D15	02/19/02	20.0	20.41	2.0 - 12.0		8.29	0	12.12
D16	02/19/02	18.8	19.13	2.0 - 12.0		7.65	0	11.48
D17	02/19/02	18.9	19.22	2.0 - 12.0		7.68	0	11.54
D18	02/19/02	18.8	19.18	2.0 - 12.0		7.51	0	11.67
D19	02/19/02	18.8	19.13	2.0 - 12.0		6.92	0	12.21
D20	02/19/02	18.5	18.90	2.0 - 12.0	NM	NM	NM	NM
D21	02/19/02	18.8	19.23	2.0 - 12.0		6.84	0	12.39
D22	02/19/02	19.9	20.30	2.0 - 12.0		8.96	0	11.34
D23	02/19/02	18.7	19.07	2.5 - 12.5		7.66	0	11.41
D24	02/19/02	18.5	18.84	2.5 - 12.5		7.13	0	11.71
MW6	02/19/02	19.6	19.4	2.9 - 12.9	NM	NM	NM	NM
MW11	02/19/02	18.4	18.09	2.3 - 12.3		7.86	0	10.23
MW60	02/19/02	19.9	19.70	3.0 - 13.0		8.43	0	11.27
MW61	02/19/02	20.0	19.73	3.0 - 13.0		8.36	0	11.37
MW63	02/19/02	19.7	19.55	4.0 - 14.0		8.56	0	10.99
MW64	02/19/02	18.4	18.18	3.0 - 13.0		7.13	0	11.05
P1	02/19/02	19.0	19.42	2.5 - 12.5		8.76	0	10.66
P2	02/19/02	20.0	20.34	2.5 - 12.5		9.09	0	11.25
P3	02/19/02	19.5	19.91	2.5 - 12.5		8.96	0	10.95
P4	02/19/02	19.4	19.79	2.0 - 12.0		8.59	0	11.20
P5	02/19/02	19.5	19.84	2.5 - 12.5		7.63	0	12.21

NOTES:

BGS Below ground surface

BTOC Below top of casing

MSL Mean sea level

		Eleva (feet N		Depth of Screened	Depth of Free	Water	Product	Groundwater
Well	Date	Ground	Top of	Interval	Product	Depth	Thickness	Elevation
Number	Measured	Surface	Casing	(feet BGS)	(feet BTOC)	(feet BTOC)	(feet)	(feet MSL)
	1	Surface	0		ing Event – Ap	ril 2002		
D1	04/09/02	19.7	20.07	2.0 - 12.0	— —	8.58	0	11.49
D2	04/09/02	19.3	19.60	2.0 - 12.0	_	8.03	0	11.57
D3/PR-6	04/09/02	19.4	19.13	2.5 - 12.5		7.47	0	11.66
D4	04/09/02	19.4	19.66	2.0 - 12.0		7.93	0	11.73
D5	04/09/02	19.5	19.88	2.0 - 12.0		8.40	0	11.48
D6	04/09/02	19.3	19.66	2.0 - 12.0		8.10	0	11.56
D7	04/09/02	19.0	19.35	2.0 - 12.0		7.56	0	11.79
D8	04/09/02	19.3	19.60	2.0 - 12.0		7.80	0	11.80
D9	04/09/02	19.7	20.02	2.0 - 12.0		8.13	0	11.89
D10	04/09/02	19.2	19.57	2.0 - 12.0		7.98	0	11.59
D11	04/09/02	19.2	19.57	2.0 - 12.0		7.88	0	11.69
D12	04/09/02	18.8	19.14	2.0 - 12.0		7.36	0	11.78
D13	04/09/02	18.7	19.02	2.0 - 12.0		6.91	0	12.11
D14	04/09/02	19.2	19.57	2.0 - 12.0		7.08	0	12.49
D15	04/09/02	20.0	20.41	2.0 - 12.0		8.12	0	12.29
D16	04/09/02	18.8	19.13	2.0 - 12.0		7.43	0	11.70
D17	04/09/02	18.9	19.22	2.0 - 12.0		7.42	0	11.80
D18	04/09/02	18.8	19.18	2.0 - 12.0		7.32	0	11.86
D19	04/09/02	18.8	19.13	2.0 - 12.0		6.53	0	12.60
D20	04/09/02	18.5	18.90	2.0 - 12.0		7.09	0	11.81
D21	04/09/02	18.8	19.23	2.0 - 12.0		6.60	0	12.63
D22	04/09/02	19.9	20.30	2.0 - 12.0		8.82	0	11.48
D23	04/09/02	18.7	19.07	2.5 - 12.5		7.44	0	11.63
D24	04/09/02	18.5	18.84	2.5 - 12.5		6.93	0	11.91
MW6	04/09/02	19.6	19.4	2.9 - 12.9	NM	NM	NM	NM
MW11	04/09/02	18.4	18.09	2.3 - 12.3	_	7.69	0	10.40
MW60	04/09/02	19.9	19.70	3.0 - 13.0	_	8.26	0	11.44
MW61	04/09/02	20.0	19.73	3.0 - 13.0		8.20	0	11.53
MW63	04/09/02	19.7	19.55	4.0 - 14.0		8.41	0	11.14
MW64	04/09/02	18.4	18.18	3.0 - 13.0		6.91	0	11.27
P1	04/09/02	19.0	19.42	2.5 - 12.5		8.56	0	10.86
P2	04/09/02	20.0	20.34	2.5 - 12.5		8.94	0	11.40
P3	04/09/02	19.5	19.91	2.5 - 12.5		8.78	0	11.13
P4	04/09/02	19.4	19.79	2.0 - 12.0		8.40	0	11.39
P5	04/09/02	19.5	19.84	2.5 - 12.5		7.43	0	12.41

NOTES:

BGS Below ground surface

BTOC Below top of casing

MSL Mean sea level

		Eleva (feet N		Depth of Screened	Depth of Free	Water	Product	Groundwater
Well	Date	Ground	Top of	Interval	Product	Depth	Thickness	Elevation
Number	Measured	Surface	Casing	(feet BGS)	(feet BTOC)	(feet BTOC)	(feet)	(feet MSL)
			0		oling Event – Ju	ine 2002		1
D1	06/07/02	19.7	20.07	2.0 - 12.0		9.03	0	11.04
D2	06/07/02	19.3	19.60	2.0 - 12.0		8.48	0	11.12
D3/PR-6	06/07/02	19.4	19.13	2.5 - 12.5		7.91	0	11.22
D4	06/07/02	19.4	19.66	2.0 - 12.0		8.37	0	11.29
D5	06/07/02	19.5	19.88	2.0 - 12.0		8.86	0	11.02
D6	06/07/02	19.3	19.66	2.0 - 12.0		8.57	0	11.09
D7	06/07/02	19.0	19.35	2.0 - 12.0		8.03	0	11.32
D8	06/07/02	19.3	19.60	2.0 - 12.0		8.28	0	11.32
D9	06/07/02	19.7	20.02	2.0 - 12.0		8.59	0	11.43
D10	06/07/02	19.2	19.57	2.0 - 12.0		8.42	0	11.15
D11	06/07/02	19.2	19.57	2.0 - 12.0		8.37	0	11.20
D12	06/07/02	18.8	19.14	2.0 - 12.0		7.84	0	11.30
D13	06/07/02	18.7	19.02	2.0 - 12.0		7.41	0	11.61
D14	06/07/02	19.2	19.57	2.0 - 12.0		7.69	0	11.88
D15	06/07/02	20.0	20.41	2.0 - 12.0		8.67	0	11.74
D16	06/07/02	18.8	19.13	2.0 - 12.0		7.95	0	11.18
D17	06/07/02	18.9	19.22	2.0 - 12.0		7.93	0	11.29
D18	06/07/02	18.8	19.18	2.0 - 12.0		7.84	0	11.34
D19	06/07/02	18.8	19.13	2.0 - 12.0		7.03	0	12.10
D20	06/07/02	18.5	18.90	2.0 - 12.0		7.62	0	11.28
D21	06/07/02	18.8	19.23	2.0 - 12.0		7.12	0	12.11
D22	06/07/02	19.9	20.30	2.0 - 12.0		9.26	0	11.04
D23	06/07/02	18.7	19.07	2.5 - 12.5		7.94	0	11.13
D24	06/07/02	18.5	18.84	2.5 - 12.5		7.44	0	11.40
MW6	06/07/02	19.6	19.4	2.9 - 12.9	NM	NM	NM	NM
MW11	06/07/02	18.4	18.09	2.3 - 12.3		8.08	0	10.01
MW60	06/07/02	19.9	19.70	3.0 - 13.0		8.71	0	10.99
MW61	06/07/02	20.0	19.73	3.0 - 13.0		8.64	0	11.09
MW63	06/07/02	19.7	19.55	4.0 - 14.0		8.83	0	10.72
MW64	06/07/02	18.4	18.18	3.0 - 13.0		7.41	0	10.77
P1	06/07/02	19.0	19.42	2.5 - 12.5		8.99	0	10.43
P2	06/07/02	20.0	20.34	2.5 - 12.5		9.38	0	10.96
P3	06/07/02	19.5	19.91	2.5 - 12.5		9.23	0	10.68
P4	06/07/02	19.4	19.79	2.0 - 12.0		8.86	0	10.93
P5	06/07/02	19.5	19.84	2.5 - 12.5		7.90	0	11.94

NOTES:

BGS Below ground surface

BTOC Below top of casing

MSL Mean sea level

	A neg of Domano	
	Area of Benzene Contamination in Groundwater	Area of Free Product
Sampling Event	(ft ²)	Area of Free Product (\mathbf{ft}^2)
May 1999	22,700	1,850
June 1999	18,600	1,800
July 1999	17,050	2,375 + 500 = 2,875
August 1999	18,000	1,950
September 1999	14,875	2,225
October 1999	15,475	2,850
December 1999	8,575	1,500 + 340 = 1,840
January 2000	10,650	1,770 + 100 = 1,870
March 2000	6,450 + 3,000 = 9,450	580 + 213 = 793
May 2000	6,550 + 2,665 = 8,815	188 + 271 = 459
July 2000	5,250 + 2,550 = 7,800	679
September 2000	6,750 + 2,350 = 9,100	669
November/December 2000	7,600	205
February 2001	7,500	745 + 65 = 459
April 2001	7,100	182
June 2001	5,350	0
August 2001	5,050 + 190 = 5,240	0
October 2001	5,350 + 150 + 200 = 5,700	0
December 2001	5,300 + 140 = 5,440	0
February 2002	4,650	0
April 2002	3,450	0
June 2002	2,930 + 90 = 3,020	0

Table 5. Area of Groundwater Contamination

APPENDIX III

SOIL BORING LOGS

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Boring logs for product delineation points D1 through D24, injection wells J1 through J24, observation wells P1 through P5, and product recovery wells MW8A and PR-1 through PR-5 were provided in the Corrective Action Plan–Part B Addendum #1 and First Annual Pilot Study Progress Report (SAIC 2000).

Boring logs for product recovery wells PR-6 and PR-7 were provided in the Second Annual Pilot Study Progress Report (SAIC 2001).

No wells were installed during the time period covered by this report (July 2001 through June 2002).

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APPENDIX IV

MONITORING WELL DETAILS

Well construction diagrams for injection wells J1 through J24, observation wells P1 through P5, and product recovery wells MW8A and PR-1 through PR-5 were provided in the Corrective Action Plan–Part B Addendum #1 and First Annual Pilot Study Progress Report (SAIC 2000).

Well construction diagram for injection wells J25, J26, and J27, and product recovery wells PR-6 and PR-7 were provided in the Second Annual Progress Report (SAIC 2001).

No wells were installed during the time period covered by this report (July 2001 through June 2002).

APPENDIX V

GROUNDWATER LABORATORY RESULTS

ANALYTICAL LABORATORY INFORMATION AND DATA VALIDATION CODES

STATE OF GEORGIA ENVIRONMENTAL LABORATORY ACCREDITATION

Name of Laboratory: Address:

Contact: Telephone number: Fax number:

#1 Accrediting Authority: Accreditation Number: Effective Date: Expiration Date: Accreditation Scope:

#2 Accrediting Authority: Accreditation Number: Effective Date: Expiration Date: Accreditation Scope:

General Engineering Laboratories, Inc.

P.O. Box 30712 2040 Savage Road Charleston, SC 29407 Bob Pullano or Wendy Dimmick (843) 556-8171 (843) 766-1178

State of Florida

E-87156 July 1, 2001 June 30, 2003 SDWA, CWA, RCRA, CERCLA

DATA VALIDATION REASON CODES

Organic.	Inorganic.	and Radiolo	ogical Analy	tical Data
			a	

Holdi	ing Times	GC/MS Tuning
A01	Extraction holding times were exceeded.	B01 Mass calibration was in error, even after applying
A01 A02	Extraction holding times were grossly exceeded.	expanded criteria.
A02 A03	Analysis holding times were exceeded.	B02 Mass calibration was not performed every 12 hours.
A03 A04	Analysis holding times were grossly exceeded.	B03 Mass calibration was not performed every 12 nours. B03 Mass calibration did not meet ion abundance
		criteria.
A05	Samples were not preserved properly.	
A06	Professional judgment was used to qualify the data.	B04 Professional judgment was used to qualify the data.
Initia	I/Continuing Calibration – Organics	Initial/Continuing Calibration – Inorganics
C01	Initial calibration RRF was < 0.05 .	D01 ICV or CCV were not performed for every analyte.
C01 C02	Initial calibration RDS was $> 30\%$.	D02 ICV recovery was above the upper control limit.
C02 C03	Initial calibration keps was > 50%.	D03 ICV recovery was below the lower control limit.
005	required.	D04 CCV recovery was above the upper control limit.
C04	Continuing calibration RRF was < 0.05.	D05 CCV recovery was above the upper control limit.
C04 C05	Continuing calibration RRF was < 0.05 .	D06 Standard curve was not established with the
C05	Continuing calibration was not performed at the	minimum number of standards.
200	required frequency.	D07 Instrument was not calibrated daily or each time the
C07	Resolution criteria were not met.	instrument was not canonated daily of each time the
C08	RPD criteria were not met.	D08 Correlation coefficient was <0.995.
C09	RDS criteria were not met.	D09 Mid range cyanide standard was not distilled.
C10	Retention time of compounds was outside	D10 Professional judgment was used to qualify the data.
	windows.	, , , , , , , , , , , , , , , , , , ,
C11	Compounds were not adequately resolved.	
C12	Breakdown of endrin or DDT was $> 30\%$.	
C13	Combined breakdown of endrin/DDT was $> 30\%$.	
C14	Professional judgment was used to qualify the	
	data.	
	and Furnace Requirements	Blanks
E01	Interference check sample recovery was outside the control limit.	F01 Sample data were qualified as a result of the method blank.
E02	Duplicate injections were outside the control limit.	F02 Sample data were qualified as a result of the field
E03	Post digestion spike recovery was outside the	blank.
E04	control limit.	F03 Sample data were qualified as a result of the
E04	MSA was required but not performed.	equipment rinsate.
E05	MSA correlation coefficient was <0.995.	F04 Sample data were qualified as a result of the trip
E06	MSA spikes were not at the correct concentration.	blank.
E07	Serial dilution criteria were not met.	F05 Gross contamination exists.
E08	Professional judgment was used to qualify the data.	F06 Concentration of the contaminant was detected at a level below the CRQL.
		F07 Concentration of the contaminant was detected at a
		level less than the action limit, but greater than the
		CRQL.
		F08 Concentration of the contaminant was detected at a level that exceeds the action level.
		F10 Blank had a negative value $>2\times$'s the IDL.
		F11 Blanks were not analyzed at required frequency.
1		F12 Professional judgment was used to qualify the data.

DATA VALIDATION REASON CODES

		ical Analytical Data (continued)	
Surro	gate/Radiological Chemical Recovery	Matrix Spike/Matrix Spike Duplicate (MS/MSD)	
G01	Surrogate/radiological chemical recovery was	H01 MS/MSD recovery was above the upper of	ontrol
	above the upper control limit.	limit.	
G02	Surrogate/radiological chemical recovery was	H02 MS/MSD recovery was below the lower of	control
	below the lower control limit.	limit.	
G03	Surrogate recovery was <10%.	H03 MD/MSD recovery was <10%.	
G04	Surrogate recovery was zero.	H04 MS/MSD pairs exceed the RPD limit.	
G05	Surrogate/radiological chemical recovery data was	H05 No action was taken on MS/MSD limit.	
	not present.	H06 Professional judgment was used to qualify the	data.
G06	Professional judgment was used to qualify the	H07 Radiological MS/MSD recovery was <20%.	
	data.	H08 Radiological MS/MSD recovery was >160%.	
G07	Radiological chemical recovery was <20%.	H09 Radiological MS/MSD samples were not an	alyzed
G08	Radiological chemical recovery was >150%.	at the required frequency.	2
Matri	x Spike	Laboratory Duplicate	
I01	MS recovery was above the upper control limit.	J01 Duplicate RPD/radiological duplicate error	ratio
I02	MS recovery was below the lower control limit.	(DER) was outside the control limit.	
I03	MS recovery was <30%.	J02 Duplicate sample results were $>5\times$ the CRDL.	
I04	No action was taken on MS data.	J03 Duplicate sample results were $<5\times$ the CRDL.	
I05	Professional judgment was used to qualify the	J04 Professional judgment was used to qualify the	
	data.	J05 Duplicate was not analyzed at the re	
		frequency.	•
Interr	nal Area Summary	Pesticide Cleanup Checks	
K01	Area counts were outside the control limits.	L01 10% recovery was obtained during either chec	k.
K02	Extremely low area counts or performance was	L02 Recoveries during either check were $>120\%$.	
	exhibited by a major drop-off.	L03 GPC Cleanup recoveries were outside the c	ontrol
K03	IS retention time varied by more than 30 seconds.	limits.	
K04	Professional judgment was used to qualify the	L04 Florisil cartridge cleanup recoveries were of	outside
	data.	the control limits.	
		L05 Professional judgment was used to qualify the	data.
Targe	et Compound Identification	Compound Quantitation and Reported CRQLs	
M01	Incorrect identifications were made.	N01 Quantitation limits were affected by large, of	f-scale
M02	Qualitative criteria were not met.	peaks.	
M03	Cross contamination occurred.	N02 MDLs reported by the laboratory exc	ceeded
M04	Confirmatory analysis was not performed	corresponding CRQLs.	
M05	No results were provided.	N03 Professional judgment used to qualify the data	l .
M06	Analysis occurred outside 12-hr GC/MS window.		
M07	Professional judgment was used to qualify the		
	data.		
M08	The %D between the two pesticide/PCB column		
	checks was >25%.		
	tively Identified Compounds (TICs)	Laboratory Control Samples (LCSs)	
O01	Compound was suspected laboratory contaminant	P01 LCS recovery was above upper control limit.	
	and was not detected in the blank.	P02 LCS recovery was below lower control limit.	
O02	TIC result was not above $10 \times$ the level found in	P03 LCS recovery was <50%.	
	the blank.	P04 No action was taken on the LCS data.	
O03	Professional judgment was used to qualify	P05 LCS was not analyzed at required frequency.	
	analytical data.	P06 Radiological LCS recovery was <50% for ac	queous
		samples; <40% for solid samples.	
		P07 Radiological LCS recovery was >150% for ac	lueous
		samples; >160% for solid samples.	
		P08 Professional judgment was used to qualify the	data.

Organic, Inorganic, and Radiological Analytical Data (continued)

DATA VALIDATION REASON CODES

Organic, Inorganic, and Radiological Analytical Data (continued)

Field	Duplicate	Radiological Calibration
Q01	Field duplicate RPDs were >30% for waters	R01 Efficiency calibration criteria were not met.
	and/or $>50\%$ for soils.	R02 Energy calibration criteria were not met.
Q02	Radiological field duplicate error ratio (DER) was	R03 Resolution calibration criteria were not met.
	outside the control limit.	R04 Background determination criteria were not met.
Q03	Duplicate sample results were $>5\times$ the CRDL.	R05 Quench curve criteria were not met.
Q04	Duplicate sample results were $<5\times$ the CRDL.	R06 Absorption curve criteria were not met.
		R07 Plateau curve criteria were not met.
		R08 Professional judgment was used to qualify the data.
Radio	ological Calibration Verification	
S01	Efficiency verification criteria were not met.	
S02	Energy verification criteria were not met.	
S03	Resolution verification criteria were not met.	
S04	Background verification criteria were not met.	
S05	Cross-talk verification criteria were not met.	
S06	Professional judgment was used to qualify the	
	data.	

The laboratory analytical results for the baseline sampling event and the first year of the pilot study (i.e., 1999 through May 2000) were included in the Corrective Action Plan–Part B Addendum #1 and First Annual Pilot Study Progress Report (SAIC 2000).

The laboratory analytical results for the second year of the pilot study (i.e., June 2000 through June 2001) were included in the Second Annual Pilot Study Progress Report (SAIC 2001).

SIXTEENTH SAMPLING EVENT

AUGUST 2001

Lab Name: GENERAL ENGINEERING LABO	OR Contract: N/A
Lab Code: N/A Case No.: N/A	SAS No.: N/A SDG No.: 47253
Matrix: (soil/water) WATER	Lab Sample ID: 47253004
Sample wt/vol: 5.000 (g/ml)	ML Lab File ID: 1W412
Level: (low/med) LOW	Date Received: 08/09/01
% Moisture: not dec.	Date Analyzed: 08/16/01
GC Column: DB-624 ID: 0.25 (mm	Dilution Factor: 1.0
Soil Extract Volume: (uL)	Soil Aliquot Volume: (

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q	
108-88-3	Benzene Toluene Ethylbenzene Xylenes (tota	11. 10. 80. 20	2	= = F0%, F08 = =

See Heren

DATA VALIDATION COPY

FORM I VOA

OLM03.0

ж×.

1A VOLATILE ORGANICS ANALYSIS DATA SHEET

- AE63G2 Lab Name: GENERAL ENGINEERING LABOR Contract: N/A Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 47253 Lab Sample ID: 47253009 Matrix: (soil/water) WATER Sample wt/vol: 5.000 (g/ml) ML Lab File ID: 1W418 Date Received: 08/09/01 Level: (low/med) LOW Date Analyzed: 08/16/01 % Moisture: not dec. _____ Dilution Factor: 1.0 GC Column: DB-624 ID: 0.25 (mm) Soil Aliquot Volume: (L Soil Extract Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-41-4	Benzene Toluene Ethylbenzene Xylenes (tota	2.0 2.0 2.0 2.0 2.0 0.35	U U

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EPA SAMPLE NO.

FORM I VOA

1A VOLATILE ORGANICS ANALYSIS DATA S	EPA SAMPLE NO.
Lab Name: GENERAL ENGINEERING LABOR Contract	- AER6G2
Lab Code: N/A Case No.: N/A SAS No.	: N/A SDG No.: 47253
Matrix: (soil/water) WATER	Lab Sample ID: 47253001
Sample wt/vol: 5.000 (g/ml) ML	Lab File ID: 1W506
Level: (low/med) LOW	Date Received: 08/09/01
% Moisture: not dec.	Date Analyzed: 08/17/01
GC Column: DB-624 ID: 0.25 (mm)	Dilution Factor: 2.0
Soil Extract Volume:(uL)	Soil Aliquot Volume:(12
Level: (low/med) LOW % Moisture: not dec. GC Column: DB-624 ID: 0.25 (mm)	Date Received: 08/09/01 Date Analyzed: 08/17/01 Dilution Factor: 2.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
71-43-2Benzene 108-88-3Toluene 100-41-4Ethylbenzene 1330-20-7Xylenes (total)		4.	77 J .0 U .8

a_____

VOLATILE	1A ORGANICS ANALYS	IS DATA SHEET	EPA SAMPLE	NO.
Lab Name: GENERAL EN	GINEERING LABOR	Contract: N/A	- AED4G2	
Lab Code: N/A	Case No.: N/A	SAS No.: N/A	SDG No.: 47253	
Matrix: (soil/water)	WATER	Lab Sa	mple ID: 47253007	
Sample wt/vol:	5.000 (g/ml) ML	Lab Fi	le ID: 1W510	
Level: (low/med)	LOW	Date R	eceived: 08/09/01	
% Moisture: not dec.		Date A	nalyzed: 08/17/01	
GC Column: DB-624	ID: 0.25 (mm)	Diluti	on Factor: 1.0	
Soil Extract Volume:	(uL)	Soil A	liquot Volume:	()

CAS NO.	COMPOUND	CONCENTRATION (ug/L or ug/1		Q	
		al)	2.0 ¹³ 13. 13.	7 J	E FOY, FOG

DATA VALIDATION COPY

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V-17

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	IA ORGANICS ANALYSIS DATA S	HEET	EPA SAMPLE NO.
VOLATIBE		1. A. I.	- AED6G2
Lab Name: GENERAL ENG	GINEERING LABOR Contract	: N/A	
Lab Code: N/A	Case No.: N/A SAS No.	: N/A SDG	No.: 47253
Matrix: (soil/water)	WATER	Lab Sample ID:	47253008
Sample wt/vol:	5.000 (g/ml) ML	Lab File ID:	1W416
Level: (low/med)	LOW	Date Received:	08/09/01
% Moisture: not dec.		Date Analyzed:	08/16/01
GC Column: DB-624	ID: 0.25 (mm)	Dilution Facto	r: 1.0
Soil Extract Volume:	(uL)	Soil Aliquot V	olume:(1 i

CAS NO.	COMPOUND	CONCENTRATION UN (ug/L or ug/Kg)			Q	
108-88-3	Benzene Toluene Ethylbenzene Xylenes (tota		2.0	94.4 0.82 21.2 38.9	J	- U Føy, Føl ===

DATA VALIDATION COFY

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IA EI VOLATILE ORGANICS ANALYSIS DATA SHEET	PA SAMPLE NO.
Lab Name: GENERAL ENGINEERING LABOR Contract: N/A	- AED7G2
Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No	.: 47253
Matrix: (soil/water) WATER Lab Sample ID: 47	7253010
Sample wt/vol: 5.000 (g/ml) ML Lab File ID: 10	W419
Level: (low/med) LOW Date Received: 08	8/09/01
% Moisture: not dec Date Analyzed: 08	8/16/01
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor:	10.0
Soil Extract Volume:(uL) Soil Aliquot Volu	ume:(t)

CAS NO.	COMPOUND	CONCENTRATION UN (ug/L or ug/Kg)			Q	
108-88-3	Benzene Toluene Ethylbenzene Xylenes (tota		20	196 3.7 341 316	<u>J</u>	= U F0%, Fab = =

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V-19

1A VOLATILE ORGANICS ANALYSI	S DATA SHEET	4
Lab Name: GENERAL ENGINEERING LABOR	Contract: N/A	
Lab Code: $N/A^{-1} \rightarrow \infty$ Case No.: N/A	SAS No.: N/A SDG No.: 47253	
Matrix: (soil/water) WATER	Lab Sample ID: 47253016	
Sample wt/vol: 5.000 (g/ml) ML	Lab File ID: 1W434	
Level: (low/med) LOW	Date Received: 08/09/01	
% Moisture: not dec.	Date Analyzed: 08/17/01	- 64
GC Column: DB-624 ID: 0.25 (mm)	Dilution Factor: 5.0	
Soil Extract Volume:(uL)	Soil Aliquot Volume:	(נג
CAS NO. COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Q	-

71-43-2Benzene		39 ED	FOY, FOR
108-88-3Toluene 100-41-4Ethylbenzene		18 2 D	-=
1330-20-7Xylenes (total)	2630 17	SO ED	=

DATA VALIDATION COFY

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VOLATILE	1A ORGANICS ANALYSIS DATA S	HEET	EPA SAMPLE NO	۶.
	GINEERING LABOR Contract		AED0G2	
	Case No.: N/A SAS No.			
Matrix: (soil/water)	WATER	Lab Sample ID:	47253011	
Sample wt/vol:	5.000 (g/ml) ML	Lab File ID:	1W429	
Level: (low/med)	LOW	Date Received:	08/09/01	
<pre>% Moisture: not dec.</pre>		Date Analyzed:	08/16/01	
GC Column: DB-624	ID: 0.25 (mm)	Dilution Facto	or: 1.0	
Soil Extract Volume:	(uL)	Soil Aliquot V	olume:	_(1 5

COMPOUND

CAS NO.

71-43-2Benzene	57.	3	=
108-88-3Toluene	2.0 0	16 J	U FOY FOL
100-41-4Ethylbenzene	0.2	25 J	5 '
1330-20-7Xylenes (total)	76.	.9	-

FORM I VOA

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VOLATILE	1A ORGANICS ANALYSI	S DATA SHEET	EPA SAMPLE NO.
Lab Name: GENERAL EN	GINEERING LABOR	Contract: N/A	- AEDBG2
Lab Code: N/A	Case No.: N/A	SAS No.: N/A SD	G No.: 47253
Matrix: (soil/water)	WATER	Lab Sample I	D: 47253015
Sample wt/vol:	5.000 (g/ml) ML	Lab File ID:	1W513
Level: (low/med)	LOW	Date Receive	d: 08/09/01
<pre>% Moisture: not dec.</pre>		Date Analyze	d: 08/17/01
GC Column: DB-624	ID: 0.25 (mm)	Dilution Fac	tor: 1.0
Soil Extract Volume:	(uL)	Soil Aliquot	Volume: (11
		CONCENTRATION UNIT	e .

(ug/L or ug/Kg) UG/L COMPOUND Q

71-43-2----Benzene 108-88-3-----Toluene 100-41-4----Ethylbenzene 1330-20-7-----Xylenes (total) 14.4 2.0 U 2.0 U 0.38 J 11 234

CAS NO.

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FORM I VOA

1A VOLATILE ORGANICS ANALYSIS DATA SHEET	EPA SAMPLE NO.
Name: GENERAL ENGINEERING LABOR Contract: N/A	AEDDG2

Matrix: (soil/water) WATER 5.000 (g/ml) ML Sample wt/vol: Level: (low/med) LOW % Moisture: not dec. GC Column: DB-624 ID: 0.25 (mm) Soil Extract Volume: ____(uL)

CAS NO. COMPOUND

Lab

2 Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 47253 Lab Sample ID: 47253012 Lab File ID: 1W507 Date Received: 08/09/01 Date Analyzed: 08/17/01 Dilution Factor: 1.0 Soil Aliquot Volume:

> CONCENTRATION UNITS: (ug/L or ug/Kg) JG/L Q

71-43-2Benzene	110 A.A.	42.8	-
108-88-3Toluene	2.0	0.31 3	U FOY FOG
100-41-4Ethylbenzene		14.6	=
1330-20-7Xylenes (total)		41.1	=

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VOLATILE	1A ORGANICS ANALYSI	IS DATA SHEET	EPA SAMPLE NO.
Lab Name: GENERAL EN	GINEERING LABOR	Contract: N/A	AEDGG2
Lab Code: N/A	Case No.: N/A	SAS No.: N/A SDG	No.: 47253
Matrix: (soil/water)	WATER	Lab Sample ID:	47253014
Sample wt/vol:	5.000 (g/ml) ML	Lab File ID:	1W432
Level: (low/med)	LOW	Date Received:	08/09/01
% Moisture: not dec.		Date Analyzed:	08/17/01
GC Column: DB-624	ID: 0,25 (mm)	Dilution Facto	r: 1.0
Soil Extract Volume:	(uL)	Soil Aliquot V	olume:(1 %

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L		Q
71-43-2Benzene 108-88-3Toluene		12	3	υ
100-41-4	Ethylbenzene Xylenes (total)	2.	0	U J

V-24

VOLATILE	1A ORGANICS ANALYSIS DATA S	SHEET	EPA SAMPLE NO.
Lab Name: GENERAL ENG	GINEERING LABOR Contract	I: N/A	AEDJG2
Lab Code: N/A	Case No.; N/A SAS No	.: N/A SDG	No.: 47253
Matrix: (soil/water)	WATER	Lab Sample ID:	47253013
Sample wt/vol:	5.000 (g/ml) ML	Lab File ID:	1W431
Level: (low/med)	LOW	Date Received:	08/09/01
<pre>% Moisture: not dec.</pre>		Date Analyzed:	08/16/01
GC Column: DB-624	ID: 0.25 (mm)	Dilution Facto	r: 1.0
Soil Extract Volume:	(uL)	Soil Aliquot V	olume:(u_

COMPOUND	(ug/L or ug/Kg) UG/L	q	
Benzene Toluene Ethylbenzene Xylenes (tota	2.0 0	31 J 8.0	= U F0%,F0{ = =
	Benzene Toluene Ethylbenzene	COMPOUND (ug/L or ug/Kg) UG/L Benzene Toluene Ethylbenzene 2:0 2:0 2:0 2:0 2:0 2:0 2:0 2:0	COMPOUND (ug/L or ug/Kg) UG/L Q Benzene 2.0 53.0 J Toluene 2.0 0.31 J Ethylbenzene 28.0

FORM I VOA

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 $\frac{c_{2}}{c_{2}} = \frac{1}{2} \frac{a_{2}}{c_{2}} + \frac{1}{2} \frac{a_{2}}{c_{2}}$

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VOLATILE	1A ORGANICS ANALYSIS DATA S	EPA SAMPLE NO.
Lab Name: GENERAL ENG	GINEERING LABOR Contract	: N/A
Lab Code: N/A	Case No.: N/A SAS No.	: N/A SDG No.: 47253
Matrix: (soil/water)	WATER	Lab Sample ID: 47253002
Sample wt/vol:	5.000 (g/ml) ML	Lab File ID: 1W410
Level: (low/med)	LOW	Date Received: 08/09/01
% Moisture: not dec.		Date Analyzed: 08/16/01
GC Column: DB-624	ID: 0.25 (mm)	Dilution Factor: 1.0
Soil Extract Volume:	(uL)	Soil Aliquot Volume:()

CONCEN	TRA	ATION	UNIT	S:
(110/T.	or	ug/Ko	r) UG	:/L

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	2 9	
1-43-2Benzene		TT
08-88-3Toluene	2.0	u
00-41-4Ethylbenzene	2.0	U
330-20-7Xylenes (total)	2.1	J

COMPOUND

CAS NO.

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V-26

1A VOLATILE ORGANICS ANALYSIS DATA S	EPA SAMPLE NO.
Lab Name: GENERAL ENGINEERING LABOR Contract Lab Code: N/A Case No.: N/A SAS No.	- AEP2G2
Matrix: (soil/water) WATER	Lab Sample ID: 47253003
Sample wt/vol: 5.000 (g/ml) ML Level: (low/med) LOW	Lab File ID: 1W436 Date Received: 08/09/01
<pre>% Moisture: not dec GC Column: DB-624 ID: 0.25 (mm)</pre>	Date Analyzed: 08/17/01 Dilution Factor: 1.0
Soil Extract Volume:(uL)	Soil Aliquot Volume:(11

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Q
108-88-3	Benzene Toluene Ethylbenzene Xylenes (tota	0.57 J 2.0 U 0.43 J 0.44 J

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1A VOLATILE ORGANICS ANALYSIS DATA SHEET

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Q
100-41-4	Benzene Toluene Ethylbenzene Xylenes (tota	0.17 J 2.0 U 0.20 J 0.83 J

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EPA SAMPLE NO.

	1A		Trip Blank EPA SAMPLE NO.	
VOLATILE	ORGANICS ANALYSIS D.	ATA SHEET		1
Lab Name: GENERAL ENG	INEERING LABOR Con	tract: N/A	- HP0043	
Lab Code: N/A C	ase No.: N/A SA	S NO.: N/A SDG	No.: 47253	
Matrix: (soil/water)	WATER	Lab Sample ID:	47253017	
Sample wt/vol:	5.000 (g/ml) ML	Lab File ID:	1W514	
Level: (low/med)	LOW	Date Received:	08/09/01	
% Moisture: not dec.		Date Analyzed:	08/17/01	
GC Column: DB-624	ID: 0.25 (mm)	Dilution Facto	pr: 1.0	
Soil Extract Volume:_	(uL)	Soil Aliquot V	Volume:	(L

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
1		2.0 0.26 2.0 5.0	L U

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SEVENTEENTH SAMPLING EVENT

OCTOBER 2001

1A VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

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Lab Name: GENERAL ENG	INEERING LABOR Cont	tract: N/A	_
Lab Code: N/A C	ase No.: N/A SAS	S No.: N/A SDG No.: 50038	
Matrix: (soil/water)	WATER	Lab Sample ID: 50038015	
Sample wt/vol:	5.000 (g/ml) ML	Lab File ID: 8E508	
Level: (low/med)	LOW	Date Received: 10/05/01	
% Moisture: not dec.		Date Analyzed: 10/12/01	
GC Column: DB-624	ID: 0.25 (mm)	Dilution Factor: 1.0	
Soil Extract Volume:_	(uL)	Soil Aliquot Volume:	(uL

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/I		Q	
71-43-2 108-88-3 100-41-4 1330-20-7	.1)	0.39 2.0 0.89 1.4	U J	4402	
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FORM I VOA

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VOLATILE ORGANIC	1A IS ANALYSIS DATA S	SHEET	EPA SAMPLE N	ю.
Lab Name: GENERAL ENGINEERIN	IG LABOR Contract	: N/A	AE61H2	
Lab Code: N/A ==== Case No.	: N/A SAS No.	.: N/A SDG	No.: 50038	
Matrix: (soil/water) WATER		Lab Sample ID:	50038017	
Sample wt/vol: 5.000 (g/ml) ML	Lab File ID:	3E442	
Level: (low/med) LOW		Date Received:	10/05/01	
% Moisture: not dec.		Date Analyzed:	10/12/01	
GC Column: DB-624 ID: 0.2	:5 (mm)	Dilution Facto	pr: 1.0	
Soil Extract Volume:	(uL)	Soil Aliquot V	Volume:	(uL
	CONCE	INTRATION UNITS -		

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/1	Ĺ.	Q
108-88-3	Benzene Toluene Ethylbenzene Xylenes (tota	al)	28.7 13.8 61.0 119	
				<u> </u>

DATA VALIDATION COPY

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V-34

1A VOLATILE ORGANICS ANALYSIS DAT	A SHEET
Lab Name: GENERAL ENGINEERING LABOR Contr	AE63H2
Lab Code: N/A Case No.: N/A SAS	No.: N/A SDG No.: 50038
Matrix: (soil/water) WATER	Lab Sample ID: 50038016
Sample wt/vol: 5.000 (g/ml) ML	Lab File ID: 8E509
Level: (low/med) LOW	Date Received: 10/05/01
<pre>% Moisture: not dec.</pre>	Date Analyzed: 10/12/01
GC Column: DB-624 ID: 0.25 (mm)	Dilution Factor: 1.0
Soil Extract Volume:(uL)	Soil Aliquot Volume:(uI

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	ç	2
108-88-3	Benzene Toluene Ethylbenzene Xylenes (tota	22	U 02 0 U 0 U 0 U 0 U	5 HOT

DATA VALIDATION COPY

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	1000	1A			EPA	SAMPLE	NO.
VOLATILE	ORGANICS	ANALYSIS	DATA	SHEET	 		
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COMPOUND

CAS NO.

Lab Name: GENERAL EN	SINEERING LABOR Contract	: N/A	AER6H2	
Lab Code: N/A	Case No.: N/A SAS No.	: N/A SDG N	0.: 50038	
Matrix: (soil/water)	WATER	Lab Sample ID:	50038014	
Sample wt/vol:	5.000 (g/ml) ML	Lab File ID:	8E517	
Level: (low/med)	LOW	Date Received:	10/05/01	
% Moisture: not dec.		Date Analyzed:	10/12/01	
GC Column: DB-624	ID: 0.25 (mm)	Dilution Factor	: 2.0	
Soil Extract Volume:	(uL)	Soil Aliquot Vo	lume:(uL

CONCENTE	RATION U	NITS:
(ug/L or	ug/Kg)	UG/L

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71-43-2Benzene	1.5 3	5 HOZ
108-88-3Toluene	0.69 3	r r
100-41-4Ethylbenzene	130	12
1330-20-7Xylenes (total)	267	

OLM03.0

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VOLATILE ORGAN	1.A NICS ANALYSIS DATA	SHEET	EPA SAMPLE NO.
Lab Name: GENERAL ENGINEER	ING LABOR Contra	act: N/A	AED4H2
Lab Code: N/A Case N	NO.: N/A SAS N	IO.: N/A SDG N	lo.: 50038
Matrix: (soil/water) WATER	٤	Lab Sample ID:	50038002
Sample wt/vol: 5.000) (g/ml) ML	Lab File ID:	8E427
Level: (low/med) LOW		Date Received:	10/05/01
% Moisture: not dec.		Date Analyzed:	10/12/01
GC Column: DB-624 ID: 0).25 (mm)	Dilution Factor	: 1.0
Soil Extract Volume:	(uL)	Soil Aliquot Vo	lume:(uL
CAS NO. COM		CENTRATION UNITS: J/L or ug/Kg) UG/L	e USO
71-43-2Ben 108-88-3Ben 100-41-4Eth 1330-20-7Xy1	luene	427	425 E D J HOZ 1.1 J J 48.3 34.6 = =

71-43-2Benzene	
108-88-3Toluene	
100-41-4Ethylbenzene	
1330-20-7Xylenes (total)	

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FORM I VOA

1A VOLATILE ORGANICS ANALYSIS DA	EPA SAMPLE NO.
Lab Name: GENERAL ENGINEERING LABOR Cont	AED6H2
Lab Code: N/A ==== Case No.: N/A SAS	No.: N/A SDG No.: 50038
Matrix: (soil/water) WATER	Lab Sample ID: 50038009
Sample wt/vol: 5.000 (g/ml) ML	Lab File ID: 8E434
Level: (low/med) LOW	Date Received: 10/05/01
<pre>% Moisture: not dec</pre>	Date Analyzed: 10/12/01
GC Column: DB-624 ID: 0.25 (mm)	Dilution Factor: 1.0
Soil Extract Volume:(uL)	Soil Aliquot Volume:(
	CONCENTRATION UNITS: USP ug/L or ug/Kg) UG/L Q
71-43-2Benzene 108-88-3Toluene 100-41-4Ethylbenzene 1330-20-7Xylenes (total)	135 126 21) JH0 1.5 J 24.2 51.9

OLM03.0

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V-38

Lab Name: GENERAL ENGINEERING LABOR Contract: 1 Lab Code: N/A Case No.: N/A SAS No.: 1	
	N/A SDG No.: 50038
Matrix: (soil/water) WATER La	ab Sample ID: 50038010
Sample wt/vol: 5.000 (g/ml) ML La	ab File ID: 8E513
Level: (low/med) LOW Da	ate Received: 10/05/01
% Moisture: not dec Da	ate Analyzed: 10/12/01
GC Column: DB-624 ID: 0.25 (mm) D:	ilution Factor: 2.0
Soil Extract Volume:(uL)So	oil Aliquot Volume:

71-43-2Benzene	194
108-88-3Toluene 100-41-4Ethylbenzene	- 346 289 ED =
1330-20-7Xylenes (total)	281 =

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V-39

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EPA SAMPLE NO.

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Lab Name: GENERAL ENGINE	EERING LABOR Contr	AED9H2
Lab Code: N/A Case	e No.: N/A SAS	No.: N/A SDG No.: 50038
Matrix: (soil/water) WAT	FER	Lab Sample ID: 50038003
Sample wt/vol: 5.0	000 (g/ml) ML	Lab File ID: 8E512
Level: (low/med) LOW	N	Date Received: 10/05/01
<pre>% Moisture: not dec</pre>		Date Analyzed: 10/12/01
GC Column: DB-624 ID:	: 0.25 (mm)	Dilution Factor: 25.0
Soil Extract Volume:	(uL)	Soil Aliquot Volume:(uL

CAS NO.	COMPOUND	CONCENTRATION UN (ug/L or ug/Kg) 1	ITS: UG/L	Q
108-88-3	Benzene Toluene Ethylbenzene Xylenes (total)		643 20.3 734 2720	J

OLM03.0

V-40

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1A VOLATILE ORGANICS ANALYSIS DATA SHEET	EPA SAMPLE NO.
Lab Name: GENERAL ENGINEERING LABOR Contract: N/A	AED0H2
Lab Code: N/A Case No.: N/A SAS No.: N/A SDG	No.: 50038
Matrix: (soil/water) WATER Lab Sample ID:	: 50038005
Sample wt/vol: 5.000 (g/ml) ML Lab File ID:	8E515
Level: (low/med) LOW Date Received:	: 10/05/01
<pre>% Moisture: not dec Date Analyzed:</pre>	: 10/12/01
GC Column: DB-624 ID: 0.25 (mm) Dilution Facto	or: 2.0
Soil Extract Volume:(uL) Soil Aliquot V	Volume:(uL

CAS NO.	COMPOUND	CONCENTRATION UN (ug/L or ug/Kg)		Q	
108-88-3	Benzene Toluene Ethylbenzene Xylenes (tota	a1)	29.0 4.0 0.40 11.1	U J	5 Hoz

DATA VALIDATION COPY

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VOLATILE	1A ORGANICS ANALYSI	IS DATA SHEET	EPA SAMPLE NO.
Lab Name: GENERAL EN	GINEERING LABOR	Contract: N/A	AEDBH2
Lab Code: N/A===	Case No.: N/A	SAS No.: N/A SDG	No.: 50038
Matrix: (soil/water)	WATER	Lab Sample ID:	50038004
Sample wt/vol:	5.000 (g/ml) ML	Lab File ID:	8E510
Level: (low/med)	LOW	Date Received:	10/05/01
<pre>% Moisture: not dec.</pre>		Date Analyzed:	10/12/01
GC Column: DB-624	ID: 0.25 (mm)	Dilution Factor	r: 1.0
Soil Extract Volume:	(uL)	Soil Aliquot Vo	olume:(uL

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/L	Q	
108-88-3	Benzene Toluene Ethylbenzene Xylenes (tota			5H02

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V-42

CAS NO.

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Lab Name: GENERAL ENGINEERING LABOR	Contract: N/A AEDDH2
Lab Code: N/A Case No.: N/A	SAS No.: N/A SDG No.: 50038
Matrix: (soil/water) WATER	Lab Sample ID: 50038006
Sample wt/vol: 5.000 (g/ml) ML	Lab File ID: 8E431
Level: (low/med) LOW	Date Received: 10/05/01
<pre>% Moisture: not dec</pre>	Date Analyzed: 10/12/01
GC Column: DB-624 ID: 0.25 (mm)	Dilution Factor: 1.0
Soil Extract Volume:(uL)	Soil Aliquot Volume:(uL

	CONCENTRATION UNITS:
COMPOUND	(ug/L or ug/Kg) UG/L

71-43-2Benzene	33.1	THOL
108-88-3Toluene	0.96 J	-5
100-41-4Ethylbenzene	16.7	=
1330-20-7Xylenes (total)	57.3	==

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EPA SAMPLE NO.

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1A VOLATILE ORGANICS ANALYSIS DATA SHEET	EPA SAMPLE NO.
Lab Name: GENERAL ENGINEERING LABOR Contract: N/A	AEDGH2
Lab Code: N/A Case No.: N/A SAS No.: N/A	SDG No.: 50038
Matrix: (soil/water) WATER Lab Sample	ID: 50038007
Sample wt/vol: 5.000 (g/ml) ML Lab File I.	D: 8E432
Level: (low/med) LOW Date Receiv	ved: 10/05/01
% Moisture: not dec Date Analy	zed: 10/12/01
GC Column: DB-624 ID: 0.25 (mm) Dilution Fa	actor: 1.0
Soil Extract Volume:(uL) Soil Alique	ot Volume:(u

CONCEN	VTR/	ATION U	NITS:
(ug/L	or	ug/Kg)	UG/L

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71-43-2Benzene 108-88-3Toluene	13.9	5HO2
100-41-4Ethylbenzene	2.0 U	0
1330-20-7Xylenes (total)	0.59 J 0.80 J	2

COMPOUND

CAS NO.

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V-44

EPA SAMPLE NO.

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Lab Name: GENERAL ENG	INEERING LABOR Contrac	ct: N/A	AEDJH2
Lab Code: N/A=== Ca	ase No.: N/A SAS No	D.: N/A SDG NG	D.: 50038
Matrix: (soil/water)	WATER	Lab Sample ID: 5	0038008
Sample wt/vol:	5.000 (g/ml) ML	Lab File ID: 8	E433
Level: (low/med) I	LOW	Date Received: 1	.0/05/01
% Moisture: not dec.		Date Analyzed: 1	.0/12/01
GC Column: DB-624 J	ID: 0.25 (mm)	Dilution Factor:	1.0
Soil Extract Volume:	(uL)	Soil Aliquot Vol	ume:(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q	
108-88-3	Benzene Toluene Ethylbenzene Xylenes (tota	17. 0.3 10. 4.	7 J	5 HOZ

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VOLATIL	LA E ORGANICS ANALYS	IS DATA SHEET	EPA SAMPLE NO.
Lab Name: GENERAL E	NGINEERING LABOR	Contract: N/A	AEP1H2
Lab Code: N/A ====	Case No.: N/A	SAS No.: N/A SDG	No.: 50038
Matrix: (soil/water)	WATER	Lab Sample ID:	50038012
Sample wt/vol:	5.000 (g/ml) ML	Lab File ID:	8E437
Level: (low/med)	LOW	Date Received:	10/05/01
% Moisture: not dec.		Date Analyzed:	10/12/01
GC Column: DB-624	ID: 0.25 (mm)	Dilution Facto	or: 1.0
Soil Extract Volume:	(uL)	Soil Aliquot V	Volume:(u

CONCEN	ITR/	TION	UN	ITS:
(ug/L	or	ug/Kg)	UG/L



COMPOUND

CAS NO.

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VOLATILE	1A ORGANICS ANALYSIS	S DATA SHEET	
Lab Name: GENERAL EN	GINEERING LABOR (Contract: N/A AEP2H2	
Lab Code: N/A ==== 0	Case No.: N/A	SAS No.: N/A SDG No.: 50038	
Matrix: (soil/water)	WATER	Lab Sample ID: 50038011	
Sample wt/vol:	5.000 (g/ml) ML	Lab File ID: 8E506	
Level: (low/med)	LOW	Date Received: 10/05/01	
% Moisture: not dec.		Date Analyzed: 10/12/01	
GC Column: DB-624	ID: 0.25 (mm)	Dilution Factor: 1.0	
Soil Extract Volume:	(uL)	Soil Aliquot Volume:((uL

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CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	c	2
108-88-3	Benzene Toluene Ethylbenzene Xylenes (tota	2	50 J .0 U 70 J 58 J	Hor

FORM I VOA

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1A VOLATILE ORGANICS ANALYSIS DATA SHEET	EPA SAMPLE NO.
Lab Name: GENERAL ENGINEERING LABOR Contract: N/A	AEP4H2
Lab Code: N/A Case No.: N/A SAS No.: N/A SDG	No.: 50038
Matrix: (soil/water) WATER Lab Sample ID): 50038013
Sample wt/vol: 5.000 (g/ml) ML Lab File ID:	8E507
Level: (low/med) LOW Date Received	1: 10/05/01
% Moisture: not dec Date Analyzed	1: 10/12/01
GC Column: DB-624 ID: 0.25 (mm) Dilution Fact	or: 1.0
Soil Extract Volume:(uL) Soil Aliquot	Volume:(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L		Q
108-88-3	Benzene Toluene Ethylbenzene		0.33 J 0.26 J 2.0 U	0 Hor
1330-20-7	Xylenes (tota	al)	0.20 J	

1A VOLATILE ORGANICS ANALYSIS DAT	TA SHEET	0.
Lab Name: GENERAL ENGINEERING LABOR Cont	TB2509	
Lab Code: N/A Case No.: N/A SAS	No.: N/A SDG No.: 50038	
Matrix: (soil/water) WATER	Lab Sample ID: 50038001	
Sample wt/vol: 5.000 (g/ml) ML	Lab File ID: 8E426	
Level: (low/med) LOW	Date Received: 10/05/01	
Moisture: not dec.	Date Analyzed: 10/12/01	
GC Column: DB-624 ID: 0.25 (mm)	Dilution Factor: 1.0	
Soil Extract Volume:(uL)	Soil Aliquot Volume:	(1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L		Q
108-88-3	Benzene Toluene Ethylbenzene Xylenes (tota	1)	2.0 2.0 2.0 5.0	U U

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COMPOUND

CAS NO.

Lab Name: GENERAL ENGINEERING LABOR Contra	act: N/A
Lab Code: N/A Case No.: N/A SAS 1	NO.: N/A SDG No.: 52761
Matrix: (soil/water) WATER	Lab Sample ID: 52761001
Sample wt/vol: 5.000 (g/ml) ML	Lab File ID: 5M117
Level: (low/med) LOW	Date Received: 12/02/01
<pre>% Moisture: not dec</pre>	Date Analyzed: 12/03/01
GC Column: DB-624 ID: 0.25 (mm)	Dilution Factor: 1.0
Soil Extract Volume:(uL)	Soil Aliquot Volume:(uI

CONCEN	ITR/	ATION	UNITS:
(ug/L	or	ug/Kg) UG/L

71-43-2Benzene	2.0	U
108-88-3Toluene	2.0	U
100-41-4Ethylbenzene	2.0	U
1330-20-7Xylenes (total)	5.0	U

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EPA SAMPLE NO.

1A VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GENERAL ENGI	INFERING LABOR Con	Tract: N/A	
Lab Code: N/A Ca		S No.: N/A SDG No.: 52761	
Matrix: (soil/water) W	VATER	Lab Sample ID: 52761003	
Sample wt/vol:	5.000 (g/ml) ML	Lab File ID: 5M119	
Level: (low/med) I	LOW	Date Received: 12/02/01	
<pre>% Moisture: not dec</pre>		Date Analyzed: 12/03/01	
GC Column: DB-624	ID: 0.25 (mm)	Dilution Factor: 1.0	
Soil Extract Volume:	(uL)	Soil Aliquot Volume:	(uI

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L		Q	5.
	Benzene		2.0		0
100-41-4	Ethylbenzene Xylenes (tota		2.0	2	

FORM I VOA

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1A VOLATILE ORGANICS ANALYSIS DATA	SHEET
Lab Name: GENERAL ENGINEERING LABOR Contrac	AE63J2
Lab Code: N/A Case No.: N/A SAS No	
Matrix: (soil/water) WATER	Lab Sample ID: 52761002
Sample wt/vol: 5.000 (g/ml) ML	Lab File ID: 5M118
Level: (low/med) LOW	Date Received: 12/02/01
% Moisture: not dec.	Date Analyzed: 12/03/01
GC Column: DB-624 ID: 0.25 (mm)	Dilution Factor: 1.0
Soil Extract Volume:(uL)	Soil Aliquot Volume:(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L		Q
108-88-3	Benzene Toluene Ethylbenzene Xylenes (total)		2.0 2.0 2.0 5.0	UU

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VOLATILE ORGANICS	LA ANALYSIS DATA SH	EET	EPA SAMPLE NO.
Lab Name: GENERAL ENGINEERING	LABOR Contract:	N/A	AER6J2
Lab Code: N/A Case No.:	N/A SAS No.:	N/A SDG 1	No.: 52761
Matrix: (soil/water) WATER		Lab Sample ID:	52761004
Sample wt/vol: 5.000 (g	/ml) ML	Lab File ID:	5M125
Level: (low/med) LOW	- 1 m	Date Received:	12/02/01
<pre>% Moisture: not dec.</pre>		Date Analyzed:	12/03/01
GC Column: DB-624 ID: 0.25	(mm)	Dilution Facto	r: 2.0
Soil Extract Volume:(uL)	Soil Aliquot V	olume:(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q	
108-88-3	Benzene Toluene Ethylbenzene Xylenes (tota	36. 14. 10 10 17	9	= = Foy, Fog

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Lab Name: GENERAL ENGINEERING LABOR	Contract: N/A
Lab Code: N/A Case No.: N/A	SAS NO.: N/A SDG NO.: 52761
Matrix: (soil/water) WATER	Lab Sample ID: 52761017
Sample wt/vol: 5.000 (g/ml) M	L Lab File ID: 5M207
Level: (low/med) LOW	Date Received: 12/02/01
<pre>% Moisture: not dec</pre>	Date Analyzed: 12/04/01
GC Column: DB-624 ID: 0.25 (mm)	Dilution Factor: 2.0
Soil Extract Volume:(uL)	Soil Aliquot Volume:(uL

CAS NO.	COMPOUND	CONCENTRATION UN (ug/L or ug/Kg)	NITS: UG/L		Q	0
108-88-3	Benzene Toluene Ethylbenzene Xylenes (tota		4.0	99.1 1.1 5.2 1.2	J J	= U Fox,

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EPA SAMPLE NO.

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1A VOLATILE ORGANICS ANALYS	EPA SAMPLE NO.
Lab Name: GENERAL ENGINEERING LABOR	AED6J2
Lab Code: N/A Case No.: N/A	
Matrix: (soil/water) WATER	Lab Sample ID: 52761009
Sample wt/vol: 5.000 (g/ml) MI	Lab File ID: 5M121
Level: (low/med) LOW	Date Received: 12/02/01
<pre>% Moisture: not dec</pre>	Date Analyzed: 12/03/01
GC Column: DB-624 ID: 0.25 (mm)	Dilution Factor: 1.0
Soil Extract Volume:(uL)	Soil Aliquot Volume:(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS (ug/L or ug/Kg) UG/	: L	Q	
		2.0	24.6 0 .3 7 0.95 2.7		= U F04,F06 J J

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CAS NO.

Lab Name: GENERAL ENG	GINEERING LABOR	Contract: N/A	AED7J2	
		SAS NO.: N/A SDG M	No.: 52761	
Matrix: (soil/water)	WATER	Lab Sample ID:	52761015	
Sample wt/vol:	5.000 (g/ml) ML	Lab File ID:	5M113	
Level: (low/med)	LOW	Date Received:	12/02/01	
<pre>% Moisture: not dec.</pre>		Date Analyzed:	12/03/01	
GC Column: DB-624	ID: 0.25 (mm)	Dilution Factor	r: 10.0	
Soil Extract Volume:	(uL)	Soil Aliquot Vo	olume:	(uL

		ATION U		
(ug/L	or	ug/Kg)	UG/L	

71-43-2Benzene	20	174	- u For, Fog
108-88-3Toluene 100-41-4Ethylbenzene		363	=
1330-20-7Xylenes (total)		199	=

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VOLATILE	ORGANICS	ANALISIS	DAIA	SHEET	

Lab Name: GENERAL ENGINEERING LABOR Cont	AED9J2
	No.: N/A SDG No.: 52761
Matrix: (soil/water) WATER	Lab Sample ID: 52761008
Sample wt/vol: 5.000 (g/ml) ML	Lab File ID: 5M206
Level: (low/med) LOW	Date Received: 12/02/01
<pre>% Moisture: not dec</pre>	Date Analyzed: 12/04/01
GC Column: DB-624 ID: 0.25 (mm)	Dilution Factor: 20.0
Soil Extract Volume: (uL)	Soil Aliquot Volume:(uL

CAS NO.	COMPOUND	CONCENTRATION U (ug/L or ug/Kg)			Q	
108-88-3	Benzene Toluene Ethylbenzene Xylenes (tota	al)	40	882 25:5 682 2340	J	- U F0%, F06

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Lab Name: GENERAL ENGIN	EERING LABOR Contract:	N/A	AED0J2
Lab Code: N/A Case	e No.: N/A SAS No.:	N/A SDG N	0.: 52761
Matrix: (soil/water) WA	TER	Lab Sample ID:	52761013
Sample wt/vol: 5.0	000 (g/ml) ML	Lab File ID:	5M124
Level: (low/med) LO	W	Date Received:	12/02/01
<pre>% Moisture: not dec</pre>		Date Analyzed:	12/03/01
GC Column: DB-624 ID	: 0.25 (mm)	Dilution Factor	: 1.0
Soil Extract Volume:	(uL)	Soil Aliquot Vo	lume:(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q	
71-43-2		2.0 0.	.3 38 J .4	U Foy, Foe

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1A VOLATILE ORGANICS A	NALYSIS DATA SHEET
VOLATILE ORGANICS IS	AEDBJ2
Lab Name: GENERAL ENGINEERING L	ABOR Contract: N/A
Lab Code: N/A Case No.: N	A SAS No.: N/A SDG No.: 52761
Matrix: (soil/water) WATER	Lab Sample ID: 52761005
Sample wt/vol: 5.000 (g/m	1) ML Lab File ID: 5M211
Level: (low/med) LOW	Date Received: 12/02/01
% Moisture: not dec.	Date Analyzed: 12/04/01
GC Column: DB-624 ID: 0.25	(mm) Dilution Factor: 1.0
Soil Extract Volume:(uL	.) Soil Aliquot Volume:(uL

CAS NO.	COMPOUND	CONCENTRATION UNIT (ug/L or ug/Kg) UG	S: /L	Q	
100-41-4	Benzene Toluene Ethylbenzene Xylenes (tota	2 .	74.8 0 0.57 23.5 28.4	J	= U F0%F06 = = =

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1A VOLATILE ORGANICS ANALYSIS DATA	EPA SAMPLE NO.
	AEDDJ2
Lab Name: GENERAL ENGINEERING LABOR Contra	ct: N/A
Lab Code: N/A Case No.: N/A SAS N	0.: N/A SDG No.: 52761
Matrix: (soil/water) WATER	Lab Sample ID: 52761007
Sample wt/vol: 5.000 (g/ml) ML	Lab File ID: 5M212
Level: (low/med) LOW	Date Received: 12/02/01
<pre>% Moisture: not dec</pre>	Date Analyzed: 12/04/01
GC Column: DB-624 ID: 0.25 (mm)	Dilution Factor: 1.0
Soil Extract Volume:(uL)	Soil Aliquot Volume:(uL

CAS NO.	COMPOUND	CONCENTRATIO			Q	
108-88-3	Benzene Toluene Ethylbenzene Xylenes (tota	1)	2.0	52.9 0.67 18.1 60.0	J	- U F0%, F06

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Lab Name: GENERAL ENG	GINEERING LABOR Contract	: N/A	AEDGJ2
Lab Code: N/A	Case No.: N/A SAS No.	N/A SDG	No.: 52761
Matrix: (soil/water)	WATER	Lab Sample ID:	52761014
Sample wt/vol:	5.000 (g/ml) ML	Lab File ID:	SM116
Level: (low/med)	LOW	Date Received:	12/02/01
<pre>% Moisture: not dec.</pre>		Date Analyzed:	12/03/01
GC Column: DB-624	ID: 0.25 (mm)	Dilution Facto	r: 1.0
Soil Extract Volume:	(uL)	Soil Aliquot V	olume:(uL

CAS	NO.	COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

	1.000	1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	5.7		_ = /
1.0	0.15	J	U FOY FOG
	8.5	1	
	12.8		=
	2.0		

EPA SAMPLE NO.

Q

Lab Name: GENERAL EN	GINEERING LABOR Con	AEDJJ2	
Lab Code: N/A	Case No.: N/A SA	AS NO.: N/A SDG No.: 52761	
Matrix: (soil/water)	WATER	Lab Sample ID: 52761006	
Sample wt/vol:	5.000 (g/ml) ML	Lab File ID: 5M120	
Level: (low/med)	LOW	Date Received: 12/02/01	
% Moisture: not dec.		Date Analyzed: 12/03/01	
GC Column: DB-624	ID: 0.25 (mm)	Dilution Factor: 1.0	
Soil Extract Volume:	(uL)	Soil Aliquot Volume:	(uL

COMPOUND			2
Benzene Toluene Ethylbenzene Xylenes (tota	2.0	41.3 0.59 22.4 37.0	
	Benzene Toluene Ethylbenzene	COMPOUND (ug/L or ug/Kg) UG/L	Benzene 2.0 41.3 J Toluene 2.0 0.59 J Ethylbenzene 22.4

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Lab Name: GENERAL ENGINEERING LABOR Contract: N/AAEP1J2Lab Code: N/ACase No.: N/ASAS No.: N/ASDG No.: 52761Matrix: (soil/water) WATERLab Sample ID: 52761012Sample wt/vol:5.000 (g/ml) MLLab File ID: 5M115Level: (low/med)LOWDate Received: 12/02/01% Moisture: not dec.Date Analyzed: 12/03/01GC Column: DB-624ID: 0.25 (mm)Dilution Factor: 1.0Soil Extract Volume:(uL).Soil Aliquot Volume:

CAS NO.	COMPOUND	CONCENTRATION U (ug/L or ug/Kg)			Q	
	Benzene		2.0	10.2	J	- U FOY, FOG
100-41-4	Ethylbenzene	1)		1.6 12.8		11

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AEP2J2 Lab Name: GENERAL ENGINEERING LABOR Contract: N/A Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 52761 Lab Sample ID: 52761010 Matrix: (soil/water) WATER Lab File ID: 5M122 Sample wt/vol: 5.000 (g/ml) ML Date Received: 12/02/01 Level: (low/med) LOW Date Analyzed: 12/03/01 % Moisture: not dec. Dilution Factor: 1.0 GC Column: DB-624 ID: 0.25 (mm) Soil Extract Volume: ____(uL) Soil Aliquot Volume: (uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-41-4	Benzene Toluene Ethylbenzene Xylenes (tota	0.41 2.0 0.26 5.0	U J

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CAS NO. COMPOUND

Lab Name: GENERAL ENGINEERING LABOR Contract: N/AAEP4J2Lab Code: N/ACase No.: N/ASAS No.: N/ASDG No.: 52761Matrix: (soil/water) WATERLab Sample ID: 52761011Sample wt/vol:5.000 (g/ml) MLLab File ID: 5M123Level: (low/med)LOWDate Received: 12/02/01% Moisture: not dec.Date Analyzed: 12/03/01GC Column: DB-624ID: 0.25 (mm)Dilution Factor: 1.0Soil Extract Volume:(uL)Soil Aliquot Volume:(uL)

CONCEN				
(ug/L	or	ug/Kg) UG/L	

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EPA SAMPLE NO.

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71-43-2Benzene	2.0	U
108-88-3Toluene	2.0	U
100-41-4Ethylbenzene	2.0	U
1330-20-7Xylenes (total)	5.0	U

1A VOLATILE ORGANICS ANA	LYSIS DATA SHEET
Lab Name: GENERAL ENGINEERING LAB	OR Contract: N/A
Lab Code: N/A Case No.: N/A	SAS NO .: N/A SDG NO .: 52761 1411
Matrix: (soil/water) WATER	Lab Sample ID: 52761016
Sample wt/vol: 5.000 (g/ml)	ML Lab File ID: 5M106
Level: (low/med) LOW	Date Received: 12/02/01
<pre>% Moisture: not dec</pre>	Date Analyzed: 12/03/01
GC Column: DB-624 ID: 0.25 (m	m) Dilution Factor: 1.0
Soil Extract Volume:(uL)	Soil Aliquot Volume:(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-88-3	Benzene Toluene Ethylbenzene Xylenes (tota	2.0 0.19 2.0 5.0	J U

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Lab Name: GENERAL E	NGINEERING LABOR	Contract: N/A	AE50K2
Lab Code: N/A	Case No.: N/A	SAS No.: N/A SDG	No.: 56512
Matrix: (soil/water) WATER	Lab Sample ID:	56512004
Sample wt/vol:	5.000 (g/ml) ML	Lab File ID:	2¥543
Level: (low/med)	LOW	Date Received:	02/22/02
<pre>% Moisture: not dec</pre>	· · · · · · · · · · · · · · · · · · ·	Date Analyzed:	03/02/02
GC Column: DB-624	ID: 0.25 (mm)	Dilution Facto	or: 1.0
Soil Extract Volume	:(uL)	Soil Aliquot V	Volume:(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L		Q	
108-88-3	Benzene Toluene Ethylbenzene Xylenes (tot		2.0 2.0 2.0 5.0	u u u	

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VOLATILE	IA ORGANICS ANALYSIS DATA SE	EPA SAMPLE N	0.
Lab Name: GENERAL EN	GINEERING LABOR Contract	AE61K2	
Lab Code: N/A	Case No.: N/A SAS No.	N/A SDG No : 56512	
Matrix: (soil/water)	WATER	Lab Sample ID: 56512013	
Sample wt/vol:	5.000 (g/ml) ML	Lab File ID: 2Y534	
Level: (low/med)	LOW	Date Received: 02/22/02	
% Moisture: not dec.		Date Analyzed: 03/02/02	
GC Column: DB-624	ID: 0.25 (mm)	Dilution Factor: 1.0	
Soil Extract Volume:	(uL)	Soil Aliquot Volume:	(uL

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

Q

71-43-2Benzene	3.3
108-88-3Toluene	0.21 J
100-41-4Ethylbenzene	4.7
1330-20-7Xylenes (total)	2.2 J

COMPOUND

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EPA SAMPLE NO.

Lab Name: GENERAL ENG	GINEERING LABOR	Contract: N/A	
Lab Code: N/A	Case No.: N/A	SAS No.: N/A SDG No.: 56512	
Matrix: (soil/water)	WATER	Lab Sample ID: 56512014	
Sample wt/vol:	5.000 (g/ml) ML	Lab File ID: 2Y533	
Level: (low/med)	LOW	Date Received: 02/22/02	
<pre>% Moisture: not dec.</pre>		Date Analyzed: 03/01/02	
GC Column: DB-624	ID: 0.25 (mm)	Dilution Factor: 1,0	
Soil Extract Volume:	(uL)	Soil Aliquot Volume:(u	L

CAS NO.	COMPOUND	(ug/L or ug/Kg)		Q
108-88-3	Benzene Toluene Ethylbenzene Xylenes (tota	1)	2.0 0.17 2.0 5.0	U U U U

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VOLATILE	1A ORGANICS ANALYSIS	DATA SHEET	EPA SAMPLE NO.	
Lab Name: GENERAL EN	GINEERING LABOR C	ontract: N/A	AER6K2	
Lab Code: N/A	Case No.: N/A	SAS No.: N/A SDG	No.: 56512	
Matrix: (soil/water)	WATER	Lab Sample ID	: 56512007	
Sample wt/vol:	5.000 (g/ml) ML	Lab File ID:	21540	
Level: (low/med)	LOW	Date Received	: 02/22/02	
% Moisture: not dec.		Date Analyzed	: 03/02/02	
GC Column: DB-624	ID: 0.25 (mm)	Dilution Facto	or: 1.0	
Soil Extract Volume:	(uL)	Soil Aliquot	Volume:	(uL

COMPOUND			Q
Benzene Toluene Ethylbenzene Xylenes (tota	1)	0.64 0.30 3.9 1.3	3 3
	Benzene Toluene Ethylbenzene	COMPOUND (ug/L or ug/Kg)	Benzene 0.64 Toluene 0.30 Ethylbenzene 3.9

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VOLATILE (DRGANICS ANALYSIS	DATA SHEET	
Lab Name: GENERAL ENG	INEERING LABOR CO	ntract: N/A AED4K2	
Lab Code: N/A Ca	ase No.: N/A S	AS No.: N/A SDG No.: 56386	
Matrix: (soil/water) V	VATER	Lab Sample ID: 56386002	
Sample wt/vol:	5.000 (g/ml) ML	Lab File ID: 2Y547	
Level: (low/med) I	WO	Date Received: 02/20/02	
% Moisture: not dec.		Date Analyzed: 03/02/02	
GC Column: DB-624 I	:D: 0.25 (mm)	Dilution Factor: 1.0	
Soil Extract Volume:	(uL)	Soil Aliquot Volume:	(uL

CAS NO.	COMPOUND	(ug/L or ug/Kg) U		Q	
100-41-4	Benzene Toluene Ethylbenzene Xylenes (tota		2. 0 14.2 0.75 3.8 0.60	J J	= U F04,F06 = 5
					_

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VOLATILE	1A ORGANICS ANALYSI	IS DATA SHEET	EPA SAMPLE NO.
Lab Name: GENERAL ENG			AED6K2
		SAS NO.: N/A SDG	No.: 56512
Matrix: (soil/water)	WATER	Lab Sample ID:	56512009
Sample wt/vol:	5.000 (g/ml) ML	Lab File ID:	21538
Level: (low/med)	LOW	Date Received:	02/22/02
% Moisture: not dec.		Date Analyzed:	03/02/02
GC Column: DB-624	ID: 0.25 (mm)	Dilution Facto	r: 1.0
Soil Extract Volume:	(uL)	Soil Aliquot V	olume:(uL

CONCEN				
(ug/L	or	ug/Kg) UG/L	

Q



COMPOUND

CAS NO.

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VOLATILE	1A ORGANICS ANALYS	IS DATA SHEET	EPA SAMPLE NO.
Lab Name: GENERAL EN	GINEERING LABOR	Contract: N/A	AED7K2
Lab Code: N/A	Case No.: N/A	SAS NO.: N/A SDG	No.: 56512
Matrix: (soil/water)	WATER	Lab Sample ID	56512003
Sample wt/vol:	5.000 (g/ml) ML	Lab File ID:	2Z122
Level: (low/med)	LOW	Date Received	: 02/22/02
% Moisture: not dec.		Date Analyzed	: 03/04/02
GC Column: DB-624	ID: 0.25 (mm)	Dilution Facto	or: 2.0
Soil Extract Volume:	(uL)	Soil Aliquot	/olume:(1
CAS NO.	COMPOUND	CONCENTRATION UNITS (ug/L or ug/Kg) UG/I	
71-43-2 108-88-3 100-41-4 1330-20-7		.9	164 1.8 227 Z D 181

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IA VOLATILE ORGANICS ANALYSIS DA	TA SHEET
Lab Name: GENERAL ENGINEERING LABOR Cont	ract: N/A
Lab Code: N/A Case No.: N/A SAS	No.: N/A SDG No.: 56386
Matrix: (soil/water) WATER	Lab Sample ID: 56386001
Sample wt/vol: 5.000 (g/ml) ML	Lab File ID: 2Z121
Level: (low/med) LOW	Date Received: 02/20/02
& Moisture: not dec.	Date Analyzed: 03/04/02
GC Column: DB-624 ID: 0.25 (mm)	Dilution Factor: 10.0
Soil Extract Volume: (uL)	Soil Aliquot Volume:

CAS NO.	COMPOUND	(ug/L or ug/H	(g) UG/	Ľ	2/	
108-88-3	Benzene Toluene Ethylbenzene Xylenes (tota	1)	2560	924 26.8 791 <u>2110</u>	-ED	= = F04,F08 = =

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LA VOLATILE ORGANICS ANA	LYSIS DATA SHEET
Lab Name: GENERAL ENGINEERING LAB	OR Contract: N/A
Lab Code: N/A Case No.: N/A	SAS NO.: N/A SDG NO.: 56512
Matrix: (soil/water) WATER	Lab Sample ID: 56512012
Sample wt/vol: 5.000 (g/ml)	ML Lab File ID: 2Y535
Level: (low/med) LOW	Date Received: 02/22/02
<pre>% Moisture: not dec.</pre>	Date Analyzed: 03/02/02
GC Column: DB-624 ID: 0.25 (m	m) Dilution Factor: 1.0
Soil Extract Volume:(uL)	Soil Aliquot Volume:(uL
	CONCENTRATION INITS.

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/L		Q
108-88-3 100-41-4	Benzene Toluene Ethylbenzene Xylenes (tota	al)	3.4 0.23 1.4 3.0	5.66

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VOLATILE	1A ORGANICS ANALYSI	IS DATA SHEET	EPA SAMPLE NO.
Lab Name: GENERAL EN	GINEERING LABOR	Contract: N/A	AEDBK2
Lab Code: N/A	Case No.: N/A	SAS No.: N/A SDG	No.; 56512
Matrix: (soil/water)	WATER	Lab Sample ID:	56512008
Sample wt/vol:	5.000 (g/ml) ML	Lab File ID:	2¥539
Level: (low/med)	LOW	Date Received:	02/22/02
% Moisture: not dec.		Date Analyzed:	: 03/02/02
GC Column: DB-624	ID: 0.25 (mm)	Dilution Facto	or: 1.0
Soil Extract Volume:	(uL)	Soil Aliquot N	/olume:(u)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-88-3	Benzene Toluene Ethylbenzene Xylenes (tot	3.3 0.20 0.3 0.3 0.8	

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1A VOLATILE ORGANICS ANALYSIS DATA SHEET	EPA SAMPLE NO.
Lab Name: GENERAL ENGINEERING LABOR Contract: N/A	AEDDK2
Lab Code: N/A Case No.: N/A SAS No.: N/A SDG	No.: 56512
Matrix: (soil/water) WATER Lab Sample ID:	56512006
Sample wt/vol: 5.000 (g/ml) ML Lab File ID:	2¥541
Level: (low/med) LOW Date Received:	02/22/02
<pre>% Moisture: not dec Date Analyzed:</pre>	03/02/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Facto	pr: 1.0
Soil Extract Volume:(uL) Soil Aliquot V	volume:(uL

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L	Q
100-41-4	Benzene Toluene Ethylbenzene Xylenes (tota	al)	64.1 0.54 8.7 32.6	J
		al)	32.6	_

CONCENTRATION UNITS:

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IA VOLATILE ORGANICS ANALYSIS	EPA SAMPLE NO.
	Contract: N/A
Lab Code: N/A Case No.: N/A	SAS No.: N/A SDG No.: 56512
Matrix: (soil/water) WATER	Lab Sample ID: 56512005
Sample wt/vol: 5.000 (g/ml) ML	Lab File ID: 2Y542
Level: (low/med) LOW	Date Received: 02/22/02
% Moisture: not dec.	Date Analyzed: 03/02/02
GC Column: DB-624 ID: 0.25 (mm)	Dilution Factor: 1.0
Soil Extract Volume:(uL)	Soil Aliquot Volume:(ui

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-88-3 100-41-4	Benzene Toluene Ethylbenzene Xylenes (tota		а 1 1 1

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VOLATILE	1A ORGANICS ANALYSIS DATA	SHEET	э.
Lab Name: GENERAL ENG	SINEERING LABOR Contra	ct: N/A AEDJK2	
Lab Code: N/A	Case No.: N/A SAS N	o.: N/A SDG No.: 56512	
Matrix: (soil/water)	WATER	Lab Sample ID: 56512002	
Sample wt/vol:	5.000 (g/ml) ML	Lab File ID: 2Y545	
Level: (low/med)	LOW	Date Received: 02/22/02	
<pre>% Moisture: not dec.</pre>	and the second se	Date Analyzed: 03/02/02	
GC Column: DB-624	ID: 0.25 (mm)	Dilution Factor: 1.0	
Soil Extract Volume:	(uL)	Soil Aliquot Volume:	(uL

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/L		Q
100-41-4	Benzene Toluene Ethylbenzene Xylenes (tota	a1)	54.4 0.51 13.4 2.3	ਹ ਹ

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TA VOLATILE ORGANICS ANALYS	EPA SAMPLE NO.
Lab Name: GENERAL ENGINEERING LABOR	Contract: N/A
Lab Code: N/A Case No.: N/A	SAS No.: N/A SDG No.: 56512
Matrix: (soil/water) WATER	Lab Sample ID: 56512001
Sample wt/vol: 5.000 (g/ml) MI	Lab File ID: 2Y546
Level: (low/med) LOW	Date Received: 02/22/02
% Moisture: not dec.	Date Analyzed: 03/02/02
GC Column: DB-624 ID: 0.25 (mm)	Dilution Factor: 1.0
Soil Extract Volume:(uL)	Soil Aliquot Volume: (u

CAS NO.	COMFOUND	CONCENTRATION UN (ug/L or ug/Kg)		Q
108-88-3	Benzene Toluene Ethylbenzene Xylenes (tota	1)	1.5 2.0 2.0 0.62	

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1A VOLATILE ORGANICS ANALYSIS DATA SHEET		EPA SAMPLE NO.	
Lab Name: GENERAL ENC	SINEERING LABOR Contrac	st: N/A	AEP2K2
Lab Code: N/A	Case No.: N/A SAS No	D.: N/A SDG N	No.: 56512
Matrix: (soil/water)	WATER	Lab Sample ID:	56512010
Sample wt/vol:	5.000 (g/ml) ML	Lab File ID:	2¥537
Level: (low/med)	LOW	Date Received:	02/22/02
% Moisture: not dec.		Date Analyzed:	03/02/02
GC Column: DB-624	ID: 0.25 (mm)	Dilution Factor	s: 1.0
Soil Extract Volume:	(uL)	Soil Aliquot Vo	olume:(uL
CAS NO.		CENTRATION UNITS: /L or ug/Kg) UG/L	Q

71-43-2Benzene	0.51	J	L.
108-88-3Toluene	2.0	U	1
100-41-4Ethylbenzene	2.0	U	- 13
1330-20-7Xylenes (total)	5.0	U	1

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FORM I VOA

VOLATILE	1A ORGANICS ANALYSI	S DATA SHEET	EPA SAMPLE NO,
Lab Name: GENERAL EN	GINEERING LABOR	Contract: N/A	AEP4K2
Lab Code: N/A	Case No.: N/A	SAS No.: N/A SDG	No.: 56512
Matrix: (soil/water)	WATER	Lab Sample ID:	56512011
Sample wt/vol:	5.000 (g/ml) ML	Lab File ID:	2¥536
Level; (low/med)	LOW	Date Received:	02/22/02
% Moisture: not dec.		Date Analyzed:	03/02/02
GC Column: DB-624	ID: 0.25 (mm)	Dilution Facto	pr: 1.0
Soil Extract Volume:	(uL)	Soil Aliquot V	Volume:(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	G	2
100-41-4	Benzene Toluene Ethylbenzene Xylenes (tota	1)	U 0.1 U 0.0 U 0.0 U 0.0	

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FORM 1 VOA

VOLATILE	1A ORGANICS ANALYSIS DATA	SHEET	EPA SAMPLE	NO.
Lab Name: GENERAL EN	GINEERÍNG LABOR Contrac	t: N/A	HP0045	
Lab Code: N/A	Case No.: N/A SAS No	.: N/A SDG	No.: 56386	TRIPNY
Matrix: (soil/water)	WATER	Lab Sample ID:	56386003	BLIN
Sample wt/vol:	5.000 (g/ml) ML	Lab File ID:	2¥531	
Level: (low/med)	LOW	Date Received	02/20/02	
<pre>% Moisture: not dec.</pre>		Date Analyzed:	: 03/01/02	
GC Column: DB-624	ID: 0.25 (mm)	Dilution Facto	or: 1.0	
Soil Extract Volume:	(uL)	Soil Aliquot V	/olume:	(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q	
100-41-4	Benzene Toluene Ethylbenzene Xylenes (tota		ממנמ	20122

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VOLATILE	1A ORGANICS ANALYSIS DATA S		Irip Blank EPA SAMPLE NO.
Lab Name: GENERAL EN	GINEERING LABOR Contract	: N/A	HP0046
Lab Code: N/A	Case No.: N/A SAS No.	: N/A SDG	No.: 56512
Matrix: (soil/water)	WATER	Lab Sample ID:	56512015
Sample wt/vol:	5.000 (g/ml) ML	Lab File ID:	2¥532
Level: (low/med)	LOW	Date Received:	02/22/02
<pre>% Moisture: not dec.</pre>		Date Analyzed:	03/01/02
GC Column: DB-624	ID: 0.25 (mm)	Dilution Facto	r: 1,0
Soil Extract Volume:	(uL)	Soil Aliquot V	olume:(uL

COMPOUND	(ug/L or ug/Kg) UG/L		Q
Benzene Toluene Ethylbenzene Xylenes (tota	1)	2.0 2.0 2.0 5.0	U
	Benzene Toluene Ethylbenzene	COMPOUND (ug/L or ug/Kg) UG/L	COMPOUND (ug/L or ug/Kg) UG/L Benzene 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0

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APRIL 2002

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VOLATILE ORGANICS ANALYSIS DATA	SHEET EPA SAMPLE NO.
Lab Name: GENERAL ENGINEERING LABOR Contrac	AE60M2
Lab Code: N/A Case No.: N/A SAS No	.: N/A SDG No.: 58771
Matrix: (soil/water) WATER	Lab Sample ID: 58771006
Sample wt/vol: 5.000 (g/ml) ML	Lab File ID: 2F133
Level: (low/med) LOW	Date Received: 04/11/02
% Moisture: not dec.	Date Analyzed: 04/15/02
GC Column: DB-624 ID: 0.25 (mm)	Dilution Factor: 1.0
Soil Extract Volume:(uL)	Soil Aliquot Volume:(uL

COMPOUND

CONCEN	ITRA	ATION	UNITS:	
(ug/L	or	ug/Kg	I) UG/L	

71-43-2Benzene 108-88-3Toluene	 2.0	U	U FOI, FOG
100-41-4Ethylbenzene	 2.0		u
1330-20-7Xylenes (total)	 5.0		u

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CAS NO.

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EPA SAMPLE NO.

Lab Name: GENERAL ENGINEERING LABOR Con	AE61M2
Lab Code: N/A Case No.: N/A SA	AS No.: N/A SDG No.: 58771
Matrix: (soil/water) WATER	Lab Sample ID: 58771014
Sample wt/vol: 5.000 (g/ml) ML	Lab File ID: 2F135
Level: (low/med) LOW	Date Received: 04/11/02
<pre>% Moisture: not dec</pre>	Date Analyzed: 04/15/02
GC Column: DB-624 ID: 0.25 (mm)	Dilution Factor: 1.0
Soil Extract Volume:(uL)	Soil Aliquot Volume:(uL

CAS NO.	COMPOUND	(ug/L or ug/			Q	
108-88-3	Benzene Toluene Ethylbenzene Xylenes (tota	1)	2.0	2.0 0-29 2.0 5.0	JB U	U U FOI,FOG U U

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EPA SAMPLE NO.

Lab Name: GENERAL EN	GINEERING LABOR	Contract: N/A	AE63M2
Lab Code: N/A	Case No.: N/A	SAS No.: N/A SDG 1	No.: 58771
Matrix: (soil/water)	WATER	Lab Sample ID:	58771015
Sample wt/vol:	5.000 (g/ml) ML	Lab File ID:	2F136
Level: (low/med)	LOW	Date Received:	04/11/02
<pre>% Moisture: not dec.</pre>		Date Analyzed:	04/15/02
GC Column: DB-624	ID: 0.25 (mm)	Dilution Factor	r: 1.0
Soil Extract Volume:	(uL)	Soil Aliquot Vo	lume:(uL

COMPOUND				Q	
Benzene Toluene Ethylbenzene Xylenes (tota	.1)	2.0	2.0	JB U	U U FOI,FOC
	Benzene Toluene Ethylbenzene	COMPOUND (ug/L or ug/H	COMPOUND (ug/L or ug/Kg) UG/I	Benzene 2.0 Toluene 2.0 Ethylbenzene 2.0	COMPOUND (ug/L or ug/Kg) UG/L Q Benzene Toluene Ethylbenzene 2.0 U 2.0 U 2.0 U 2.0 U 2.0 U

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Lab Name: GENERAL ENGINEERING LABOR Contract: N/AAER6M2Lab Code: N/ACase No.: N/ASAS No.: N/ASDG No.: 58771Matrix: (soil/water) WATERLab Sample ID: 58771010Sample wt/vol:5.000 (g/ml) MLLab File ID: 2F212Level: (low/med)LOWDate Received: 04/11/02% Moisture: not dec.Date Analyzed: 04/16/02GC Column: DB-624ID: 0.25 (mm)Dilution Factor: 1.0Soil Extract Volume:(uL)Soil Aliquot Volume:(uL

CAS NO.	COMPOUND	CONCENTRATION UNI (ug/L or ug/Kg) U		Q	Ú.
		2.	0.6 0.6 19. 3.	0 JB 8	U Fol,Fo6

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EPA SAMPLE NO.

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1A VOLATILE ORGANICS ANALYSIS E	EPA SAMPLE NO.
Lab Name: GENERAL ENGINEERING LABOR Con	AED4M2
Lab Code: N/A Case No.: N/A SA	S No.: N/A SDG No.: 58771
Matrix: (soil/water) WATER	Lab Sample ID: 58771017
Sample wt/vol: 5.000 (g/ml) ML	Lab File ID: 2F138
Level: (low/med) LOW	Date Received: 04/11/02
<pre>% Moisture: not dec</pre>	Date Analyzed: 04/16/02
GC Column: DB-624 ID: 0.25 (mm)	Dilution Factor: 1.0
Soil Extract Volume:(uL)	Soil Aliquot Volume:(u

CAS NO.	COMPOUND	(ug/L or ug/K	UNITS g) UG/1	: L	Q	
108-88-3	Benzene Toluene Ethylbenzene Xylenes (tota	1)	2.0	27.5 0.71 4.4 2.9	-	

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Lab Name: GENERAL ENGINEERING LABOR Contract: N/AAED6M2Lab Code: N/ACase No.: N/ASAS No.: N/ASDG No.: 58771Matrix: (soil/water) WATERLab Sample ID: 58771008Sample wt/vol:5.000 (g/ml) MLLab File ID: 2F211Level: (low/med)LOWDate Received: 04/11/02% Moisture: not dec.Date Analyzed: 04/16/02GC Column: DB-624ID: 0.25 (mm)Dilution Factor: 1.0Soil Extract Volume:(uL)Soil Aliquot Volume:(uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L or ug/Kg			Q	
71-43-2 108-88-3 100-41-4	Toluene		2.0	29.9 9-52 6.7	JB	
1330-20-7	Xylenes (tota	al)	_	12.4		

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EPA SAMPLE NO.

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EPA SAMPLE NO.

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Lab Name: GENERAL ENG	SINEERING LABOR Contract	: N/A
Lab Code: N/A	Case No.: N/A SAS No.	: N/A SDG No.: 58771
Matrix: (soil/water)	WATER	Lab Sample ID: 58771011
Sample wt/vol:	5.000 (g/ml) ML	Lab File ID: 2F214
Level: (low/med)	LOW	Date Received: 04/11/02
% Moisture: not dec.		Date Analyzed: 04/16/02
GC Column: DB-624	ID: 0.25 (mm)	Dilution Factor: 2.0
Soil Extract Volume:	(uL)	Soil Aliquot Volume:(uL

COMPOUND			Q	
Benzene Toluene Ethylbenzene Xylenes (tota	1)	4. ° 4.2 158 81.6	JB	
	Benzene Toluene Ethylbenzene	COMPOUND (ug/L or ug/Kg Benzene Toluene Ethylbenzene	Benzene 85.8 Toluene 4.0 1.2 Ethylbenzene 158	COMPOUND (ug/L or ug/Kg) UG/L Q Benzene Toluene Ethylbenzene 4. • 2.2 JB

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COMPOUND

EPA SAMPLE NO.

-1

Lab Name: GENERAL ENG	GINEERING LABOR Contract	: N/AAED9M2
Lab Code: N/A	Case No.: N/A SAS No.	: N/A SDG No.: 58771
Matrix: (soil/water)	WATER	Lab Sample ID: 58771013
Sample wt/vol:	5.000 (g/ml) ML	Lab File ID: 2F215
Level: (low/med)	LOW	Date Received: 04/11/02
% Moisture: not dec.		Date Analyzed: 04/16/02
GC Column: DB-624	ID: 0.25 (mm)	Dilution Factor: 10.0
Soil Extract Volume:	(uL)	Soil Aliquot Volume:(uL

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L





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CAS NO.

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EPA SAMPLE NO.

1

Lab Name: GENERAL EN	GINEERING LABOR	Contract: N/A	AED0M2
Lab Code: N/A	Case No.: N/A	SAS No.: N/A SDG No.	: 58771
Matrix: (soil/water)	WATER	Lab Sample ID: 58	771012
Sample wt/vol:	5.000 (g/ml) ML	Lab File ID: 2F	213
Level: (low/med)	LOW	Date Received: 04	/11/02
% Moisture: not dec.		Date Analyzed: 04	/16/02
GC Column: DB-624	ID: 0.25 (mm)	Dilution Factor:	1.0
Soil Extract Volume:	(uL)	Soil Aliquot Volu	me: (uL

COMPOUND				Q	
Benzene Toluene Ethylbenzene Xylenes (tota	1)	2.0	6.1 9-19 1.7 6.2	JB J	
	Benzene Toluene Ethylbenzene	COMPOUND (ug/L or ug Benzene Toluene Ethylbenzene	COMPOUND (ug/L or ug/Kg) UG/I	Benzene 6.1 Toluene 2.0 0.13 Ethylbenzene 1.7	COMPOUND (ug/L or ug/Kg) UG/L Q Benzene Toluene Ethylbenzene 2.0 0-19 JB 1.7 J

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1A VOLATILE ORGANICS ANALYSIS DA	TA SHEET
Lab Name: GENERAL ENGINEERING LABOR Cont	ract: N/A
Lab Code: N/A Case No.: N/A SAS	No.: N/A SDG No.: 58771
Matrix: (soil/water) WATER	Lab Sample ID: 58771007
Sample wt/vol: 5.000 (g/ml) ML	Lab File ID: 2F210
Level: (low/med) LOW	Date Received: 04/11/02
% Moisture: not dec.	Date Analyzed: 04/16/02

GC Column: DB-624 ID: 0.25 (mm) Soil Extract Volume: _____(uL)

CAS NO. COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Q

Dilution Factor: 1.0

Soil Aliquot Volume: (uL

71-43-2Benzene	3.3	=
108-88-3Toluene	2.0 0-27 JE	U FOI, FOE
100-41-4Ethylbenzene	6.4	c ,
1330-20-7Xylenes (total)	19.7	=

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EPA SAMPLE NO.

1

Lab Name: GENERAL EN	GINEERING LABOR	Contract: N/A	AEDDM2
Lab Code: N/A	Case No.: N/A	SAS No.: N/A SDG N	No.: 58771
Matrix: (soil/water)	WATER	Lab Sample ID:	58771005
Sample wt/vol:	5.000 (g/ml) ML	Lab File ID:	2F132
Level: (low/med)	LOW	Date Received:	04/11/02
% Moisture: not dec.		Date Analyzed:	04/15/02
GC Column: DB-624	ID: 0.25 (mm)	Dilution Factor	:: 1.0
Soil Extract Volume:	(uL)	Soil Aliquot Vo	olume:(uL

CAS NO.	COMPOUND	CONCENTRATION (ug/L or ug/Kg			Q	
108-88-3	Benzene Toluene Ethylbenzene Xylenes (tota	11)	2.0	31.8 0.54 13.1 47.9	JB	

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VOLATIL	1A E ORGANICS ANALYS	IS DATA SHEET	EPA SAMPLE NO.
Lab Name: GENERAL EN		Contract: N/A	AEDGM2
		SAS No.: N/A SI	DG No.: 58771
Matrix: (soil/water)) WATER	Lab Sample 1	ID: 58771002
Sample wt/vol:	5.000 (g/ml) ML	Lab File ID:	2F209
Level: (low/med)	LOW	Date Receive	ed: 04/11/02
% Moisture: not dec	· · .	Date Analyze	ed: 04/16/02
GC Column: DB-624	ID: 0.25 (mm)	Dilution Fac	ctor: 1.0
Soil Extract Volume	:(uL)	Soil Aliquot	Volume:(u

CAS NO.	COMPOUND	CONCENTRATION UNIT (ug/L or ug/Kg) UG		Q	
108-88-3	Benzene Toluene Ethylbenzene Xylenes (tota		6.7 0.38 8.1 25.4	JB	U FOI,FOC

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COMPOUND

CAS NO.

AEDJM2 Lab Name: GENERAL ENGINEERING LABOR Contract: N/A Case No.: N/A SAS Nc.: N/A SDG No.: 58771 Lab Code: N/A Matrix: (soil/water) WATER Lab Sample ID: 58771015 Sample wt/vol: 5.000 (g/ml) ML Lab File ID: 2F137 Level: (low/med) LOW Date Received: 04/11/02 % Moisture: not dec. Date Analyzed: 04/16/02 GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0 Soil Extract Volume: (uL) Soil Aliquot Volume: (uL

> CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L . Q

71-43-2Benzene	* * * * * * * * * * * * * * * * *	49.0	_	=
108-88-3Toluene	2.0	2.59	JB	U FOI, FOG
100-41-4Ethylbenzene		19.1		= '
1330-20-7Xylenes (total)		24.0		

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EPA SAMPLE NO.

V-105
1A VOLATILE ORGANICS ANALYSIS DATA SHEET

AEP1M2 Lab Name: GENERAL ENGINEERING LABOR Contract: N/A Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 58771 Matrix: (soil/water) WATER Lab Sample ID: 58771009 Sample wt/vol: 5.000 (g/ml) ML Lab File ID: 2F134 Level: (low/med) LOW Date Received: 04/11/02 % Moisture: not dec. Date Analyzed: 04/15/02 GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0 Soil Extract Volume: ____(uL) Soil Aliquot Volume: _____(uL

CAS NO. COMPOU		TION UNITS ug/Kg) UG/I		Q	
71-43-2Benzen 108-88-3Toluen 100-41-4Ethylb 1330-20-7Xylene	e enzene	2.0	1.5 0.21 0.68 2.5	J	5 U F01,F06 5

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EPA SAMPLE NO.

1A VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

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Lab Name: GENERAL EN	GINEERING LABOR Contract	: N/A
Lab Code: N/A	Case No.: N/A SAS No.	: N/A SDG No.: 58771
Matrix: (soil/water)	WATER	Lab Sample ID: 58771003
Sample wt/vol:	5.000 (g/ml) ML	Lab File ID: 2F130
Level: (low/med)	LOW	Date Received: 04/11/02
% Moisture: not dec.		Date Analyzed: 04/15/02
GC Column: DB-624	ID: 0.25 (mm)	Dilution Factor: 1.0
Soil Extract Volume:	(uL)	Soil Aliquot Volume:(uL

CAS NO.	COMPOUND	CONCENTRATION (ug/L or ug/)			Q	
108-88-3 100-41-4	Benzene Toluene Ethylbenzene Xylenes (tota	al)	2.0	0.31 0.32 0.48 1.6	JB J	F U FOI, FOG

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V-107

VOLATILE	1A ORGANICS ANALYSIS DATA S	HEET	EPA SAMPLE NO.
Lab Name: GENERAL EN	GINEERING LABOR Contract	: N/A	AEP4M2
Lab Code: N/A	Case No.: N/A SAS No.	N/A SDG	No.: 58771
Matrix: (soil/water)	WATER	Lab Sample ID:	58771004
Sample wt/vol:	5.000 (g/ml) ML	Lab File ID:	25131
Level: (low/med)	LOW	Date Received:	04/11/02
% Moisture: not dec.		Date Analyzed:	04/15/02
GC Column: DB-624	ID: 0.25 (mm)	Dilution Facto	r: 1,0
Soil Extract Volume:	(uL)	Soil Aliquot V	olume:(uL

CAS NO.	COMPOUND	(ug/L or ug/			Q	
100-41-4	Benzene Toluene Ethylbenzene Xylenes (tota	al)	2.0	0.69 0.27 1.3 4.2	JB J	D FOI,FOL

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V-108

VOLATIE	1A ORGANICS ANALYSIS DATA		PA SAMPLE NO.
Lab Name: GENERAL ENG			HPD015 TURK
	Case No.: N/A SAS No	.: N/A SDG No	0.: 58771
Matrix: (soil/water)	WATER	Lab Sample ID: 5	58771001
Sample wt/vol:	5.000 (g/ml) ML	Lab File ID: 2	2F129
Level: (low/med)	LOW	Date Received: 0	04/11/02
% Moisture: not dec.		Date Analyzed: 0	04/15/02
GC Column: DB-624	ID: 0.25 (mm)	Dilution Factor:	1.0
Soil Extract Volume:	(uL)	Soil Aliquot Vol	Lume:(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/I		Q	5
100-41-4	Benzene Toluene Ethylbenzene Xylenes (tota	2.0	2.0 9.26 2.0 5.0	JB U	4 U Foi,Fo 4 4

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V-109

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1A VOLATILE ORGANICS ANALYSIS DATA S	SHEET
Lab Name: GENERAL ENGINEERING LABOR Contract	AE60N2
Lab Code: N/A Case No.: N/A SAS No	.: N/A SDG No.: 51802
Matrix: (soil/water) WATER	Lab Sample ID: 61802001
Sample wt/vol: 5.000 (g/ml) ML	Lab File ID: 70531
Level: (low/med) LOW	Date Received: 06/10/02
<pre>% Moisture: not dec</pre>	Date Analyzed: 06/21/02
GC Column: DB-624 ID: 0.25 (mm)	Dilution Factor: 1.0
Soil Extract Volume:(uL)	Soil Aliquot Volume:(uL

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/L	-	Q	1
100-41-4	Benzene Toluene Ethylbenzene Xylenes (tota		2.0 2.0 2.0 5.0	U U	ľ

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Lab Name: GENERAL ENGINEERING LABOR Contract: N/AAE61N2Lab Code: N/ACase No.: N/ASAS No.: N/ASDG No.: 61802Matrix: (soil/water) WATERLab Sample ID: 61802009Sample wt/vol:5.000 (g/ml) MLLab File ID: 70523Level: (low/med)LOWDate Received: 06/10/02% Moisture: not dec.Date Analyzed: 06/21/02GC Column: DB-624ID: 0.25 (mm)Dilution Factor: 1.0Soil Extract Volume:(uL)Soil Aliquot Volume:(uL)	1A VOLATILE ORGANICS ANALYSIS I	DATA SHEET
Lab Code: N/ACase No.: N/ASAS No.: N/ASDG No.: 61802Matrix: (soil/water) WATERLab Sample ID: 61802009Sample wt/vol:5.000 (g/ml) MLLab File ID: 70523Level: (low/med)LOWDate Received: 06/10/02% Moisture: not dec.Date Analyzed: 06/21/02GC Column: DB-624ID: 0.25 (mm)Dilution Factor: 1.0	Lab Name: GENERAL ENGINEERING LABOR Cor	
Sample wt/vol:5.000 (g/ml) MLLab File ID:70523Level:(low/med)LOWDate Received:06/10/02% Moisture:not dec.Date Analyzed:06/21/02GC Column:DB-624ID:0.25 (mm)Dilution Factor:1.0		AS NO.: N/A SDG No.: 61802
Level:(low/med)LOWDate Received:06/10/02% Moisture:not dec.Date Analyzed:06/21/02GC Column:DB-624ID:0.25 (mm)Dilution Factor:1.0	Matrix: (soil/water) WATER	Lab Sample ID: 61802009
<pre>% Moisture: not dec Date Analyzed: 06/21/02 GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0</pre>	Sample wt/vol: 5.000 (g/ml) ML	Lab File ID: 70523
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0	Level: (low/med) LOW	Date Received: 06/10/02
	<pre>% Moisture: not dec</pre>	Date Analyzed: 06/21/02
Soil Extract Volume:(uL) Soil Aliquot Volume:(uL)	GC Column: DB-624 ID: 0.25 (mm)	Dilution Factor: 1.0
	Soil Extract Volume:(uL)	Soil Aliquot Volume:(uI

COMPOUND	(ug/L or ug/Kg) UG/I		Q
Benzene Toluene Ethylbenzene Xylenes (tota	al)	7.8 2.0 4.8 5.8	U
	Benzene Toluene Ethylbenzene	COMPOUND (ug/L or ug/Kg) UG/I Benzene	COMPOUND (ug/L or ug/Kg) UG/L Benzene 7.8 Toluene 2.0 Ethylbenzene 4.8

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VOLATILE	1A ORGANICS ANALYS	IS DATA SHEET	ю.
Lab Name: GENERAL EN		Contract: N/A	
Lab Code: N/A	Case No.: N/A	SAS No.: N/A SDG No.: 61802	
Matrix: (soil/water)	WATER	Lab Sample ID: 61802003	
Sample wt/vol:	5.000 (g/ml) ML	Lab File ID: 70533	
Level: (low/med)	LOW	Date Received: 06/10/02	
% Moisture: not dec.		Date Analyzed: 06/21/02	
GC Column: DB-624	ID: 0.25 (mm)	Dilution Factor: 1.0	
Soil Extract Volume:	(uL)	Soil Aliquot Volume:	(uI

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/L	Q
100-41-4	Benzene Toluene Ethylbenzene Xylenes (tota		U U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GENERAL ENGINEERING LABOR Contract: N/AAER6N2Lab Code: N/ACase No.: N/ASAS No.: N/ASDG No.: 61802Matrix: (soil/water) WATERLab Sample ID: 61802012Sample wt/vol:5.000 (g/ml) MLLab File ID: 70540Level: (low/med)LOWDate Received: 06/10/02% Moisture: not dec.Date Analyzed: 06/22/02GC Column: DB-624ID: 0.25 (mm)Dilution Factor: 1.0Soil Extract Volume:(uL)Soil Aliquot Volume:(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-88-3	Benzene Toluene Ethylbenzene Xylenes (tota		

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1A VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GENERAL EN	GINEERING LABOR (Contract: N/A	AER6N4
Lab Code: N/A	Case No.: N/A	SAS No.: N/A SDG	No.: 61802
Matrix: (soil/water)	WATER	Lab Sample ID:	61802005
Sample wt/vol:	5.000 (g/ml) ML	Lab File ID:	70535
Level: (low/med)	LOW	Date Received:	06/10/02
<pre>% Moisture: not dec.</pre>		Date Analyzed:	06/22/02
GC Column: DB-624	ID: 0.25 (mm)	Dilution Facto	r: 1.0
Soil Extract Volume:	(uL)	Soil Aliquot V	olume:(uL

CAS NO.	COMPOUND	CONCENTRATION UNIT (ug/L or ug/Kg) UG		Q
	Benzene Toluene Ethylbenzene Xylenes (tota	1)	1.4 2.0 25.9 33.8	J

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1A VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GENERAL ENGINEERING LABOR Contract: N/AAED4N2Lab Code: N/ACase No.: N/ASAS No.: N/ASDG No.: 61802Matrix: (soil/water) WATERLab Sample ID: 61802016Sample wt/vol:5.000 (g/ml) MLLab File ID: 70544Level: (low/med) LOWDate Received: 06/10/02% Moisture: not dec.Date Analyzed: 06/22/02GC Column: DB-624ID: 0.25 (mm)Dilution Factor: 1.0Soil Extract Volume:(uL)Soil Aliquot Volume:(uL)

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1A VOLATILE ORGANICS ANALY	SIS DATA SHEET
Lab Name: GENERAL ENGINEERING LABOR	Contract: N/A
Lab Code: N/A Case No.: N/A	SAS No.: N/A SDG No.: 61802
Matrix: (soil/water) WATER	Lab Sample ID: 61802010
Sample wt/vol: 5.000 (g/ml) M	L Lab File ID: 70539
Level: (low/med) LOW	Date Received: 05/10/02
% Moisture: not dec.	Date Analyzed: 06/22/02
GC Column: DB-624 ID: 0.25 (mm)	Dilution Factor: 2.0
Soil Extract Volume:(uL)	Soil Aliquot Volume:(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
	Benzene Toluene Ethylbenzene Xylenes (tota		143 1.1 J.1 J.1 J.1 J.1 J.1 J.1 J.1

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1A VOLATILE ORGANICS ANALYSIS DATA S	HEET
Lab Name: GENERAL ENGINEERING LABOR Contract	AED7N2
Lab Code: N/A Case No.: N/A SAS No.	: N/A SDG No.: 61802
Matrix: (soil/water) WATER	Lab Sample ID: 61802008
Sample wt/vol: 5.000 (g/ml) ML	Lab File ID: 70538
Level: (low/med) LOW	Date Received: 06/10/02
% Moisture: not dec.	Date Analyzed: 06/22/02
GC Column: DB-524 ID: 0.25 (mm)	Dilution Factor: 2.0
Soil Extract Volume:(uL)	Soil Aliquot Volume:(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L		Q
			61.8 0.96 127 112	J

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VOLATILE	1A ORGANICS ANALYSI	S DATA SHEET	EPA SAMPLE NO.
Lab Name: GENERAL EN			AED9N2
Lab Code: N/A	Case No.: N/A	SAS No.: N/A SDG	No.: 61802
Matrix: (soil/water)	WATER	Lab Sample ID	: 61802019
Sample wt/vol:	5.000 (g/ml) ML	Lab File ID:	70547
Level: (low/med)	LOW	Date Received	: 06/10/02
% Moisture: not dec.	<u></u>	Date Analyzed	: 06/22/02
GC Column: DB-624	ID: 0.25 (mm)	Dilution Facto	or: 20.0
Soil Extract Volume:	(uL)	Soil Aliquot	Volume:(uL

CAS NO.	COMPOUND	CONCENTRATION UNIT (ug/L or ug/Kg) UG		Q
100-41-4	Benzene Toluene Ethylbenzene Xylenes (tota	1)	574 15.7 506 1690	J

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LA VOLATILE ORGANICS ANALYSI	S DATA SHEET
	Contract: N/A
Lab Code: N/A Case No.: N/A	SAS NO.: N/A SDG No.: 61802
Matrix: (soil/water) WATER	Lab Sample ID: 61802014
Sample wt/vol: 5.000 (g/ml) ML	Lab File ID: 70542
Level: (low/med) LOW	Date Received: 06/10/02
% Moisture: not dec.	Date Analyzed: 06/22/02
GC Column: DB-624 ID: 0.25 (mm)	Dilution Factor: 1.0
Soil Extract Volume:(uL)	Soil Aliquot Volume:(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L		Q
108-88-3	Benzene Toluene Ethylbenzene Xylenes (tota	(1)	2.0 2.0 2.0 5.0	UU

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VOLATILE	1A ORGANICS ANALYS	IS DATA SHEET	EPA SAMPLE NO.
Lab Name: GENERAL EN	GINEERING LABOR	Contract: N/A	AEDBN2
Lab Code: N/A	Case No.: N/A	SAS No.: N/A SDG	No.: 61802
Matrix: (soil/water)	WATER	Lab Sample ID;	61802007
Sample wt/vol:	5.000 (g/ml) ML	Lab File ID:	70537
Level: (low/med)	LOW	Date Received:	06/10/02
% Moisture: not dec.		Date Analyzed:	06/22/02
GC Column: DB-624	ID: 0.25 (mm)	Dilution Facto	or: 1.0
Soil Extract Volume:	(uL)	Soil Aliquot V	Volume:(uI

CAS NO.	COMPOUND	CONCENTRATION UNIT (ug/L or ug/Kg) UG		Q
71-43-2	Benzene		2.0	
	Ethylbenzene	1)	2.0 2.0 5.0	U

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1A VOLATILE ORGANICS AND	LYSIS DATA SHEET EPA SAMPLE NO.
Lab Name: GENERAL ENGINEERING LAB	BOR Contract: N/A
Lab Code: N/A Case No.: N/F	SAS No.: N/A SDG No.: 61802
Matrix: (soil/water) WATER	Lab Sample ID: 61802002
Sample wt/vol: 5.000 (g/ml)	ML Lab File ID: 70532
Level: (low/med) LOW	Date Received: 06/10/02
% Moisture: not dec	Date Analyzed: 06/21/02
GC Column: DB-624 ID: 0.25 (m	m) Dilution Factor: 1.0
Soil Extract Volume:(uL)	Soil Aliquot Volume:(u
	CONCENTRATION INTER.

MPOUND	(ug/L or ug/Kg) UG/L		Q	
nzene luene hylbenzene lenes (tota	al)	7.7 2.0 1.6 3.5	U U U U	1131
	nzene luene hylbenzene	nzene luene hylbenzene	nzene 7.7 Dluene 2.0 hylbenzene 1.6	nzene 7.7 Dluene 2.0 U hylbenzene 1.6 J

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VOLATILE	IA ORGANICS ANALYSI	IS DATA SHEET	EPA SAMPLE NO.
Lab Name: GENERAL ENG	GINEERING LABOR	Contract: N/A	AEDGN2
Lab Code: N/A	Case No.: N/A	SAS No.: N/A SDG	No.: 51802
Matrix: (soil/water)	WATER	Lab Sample ID:	51802017
Sample wt/vol:	5.000 (g/ml) ML	Lab File ID:	70545
Level: (low/med)	LOW	Date Received:	06/10/02
<pre>% Moisture: not dec.</pre>		Date Analyzed:	06/22/02
GC Column: DB-624	ID: 0.25 (mm)	Dilution Facto	pr: 1.0
Soil Extract Volume:	(uL)	Soil Aliquot V	Volume:(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L		Q
108-88-3	Benzene Toluene Ethylbenzene Xylenes (tota	al)	1.2 2.0 1.1 1.6	L L L L L L

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1A VOLATILE ORGANICS ANALYSIS	DATA SHEET
	AEDJN2
Lab Name: GENERAL ENGINEERING LABOR Co	ontract: N/A
Lab Code: N/A Case No.: N/A	SAS NO.: N/A SDG NO.: 61802
Matrix: (soil/water) WATER	Lab Sample ID: 61802006
Sample wt/vol: 5.000 (g/ml) ML	Lab File ID: 70536
Level: (low/med) LOW	Date Received: 06/10/02
<pre>% Moisture: not dec</pre>	Date Analyzed: 06/22/02
GC Column: DB-624 ID: 0,25 (mm)	Dilution Factor: 1.0
Soil Extract Volume:(uL)	Soil Aliquot Volume:(uL

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/L	Q	
71-43-2	Benzene Toluene	14.9	u U	-
	Ethylbenzene			-3

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VOLATILE	LA ORGANICS ANALYSI	S DATA SHEET	EPA SAMPLE NO.
Lab Name: GENERAL EN		Contract: N/A	AEP1N2
		SAS No.: N/A SDG	No.: 61802
Matrix: (soil/water)	WATER	Lab Sample ID:	61802013
Sample wt/vol:	5.000 (g/ml) ML	Lab File ID:	70541
Level: (low/med)	LOW	Date Received:	06/10/02
<pre>% Moisture: not dec.</pre>		Date Analyzed:	06/22/02
GC Column: DB-624	ID: 0.25 (mm)	Dilution Facto	r: 1.0
Soil Extract Volume:	(uL)	Soil Aliquot V	olume:(uL
		Se	

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/L		Q
		1)	2.0 2.0 2.0 5.0	u u

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VOLATILE C	LA DRGANICS ANALYSIS DATA	SHEET	EPA SAMPLE NO.
Lab Name: GENERAL ENGI	INEERING LABOR Contrac	t: N/A	AEP2N2
Lab Code: N/A Ca	ase No.: N/A SAS No	.: N/A SDG	No.: 61802
Matrix: (soil/water) W	ATER	Lab Sample ID:	61802015
Sample wt/vol: 5	5.000 (g/ml) ML	Lab File ID:	70543
Level: (low/med) I	WO	Date Received:	06/10/02
% Moisture: not dec.		Date Analyzed:	06/22/02
GC Column: DB-624 I	ID: 0.25 (mm)	Dilution Facto	pr: 1.0
Soil Extract Volume:	(uL)	Soil Aliquot V	'olume:(uL

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/L		Q
			35 J .0 U .0 U .0 U	121

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V-128

VOLATILE	ORGANICS ANALYSI	S DATA SHEET	EPA SAMPLE NO.
Lab Name: GENERAL EN	GINEERING LABOR	Contract: N/A	AEP4N2
Lab Code: N/A	Case No.: N/A	SAS No.: N/A SDG	No.: 61802
Matrix: (soil/water)	WATER	Lab Sample ID:	61802018
Sample wt/vol:	5.000 (g/ml) ML	Lab File ID:	70546
Level: (low/med)	LOW	Date Received:	06/10/02
% Moisture: not dec.		Date Analyzed:	06/22/02
GC Column: DB-624	ID: 0.25 (mm)	Dilution Facto	or: 1.0
Soil Extract Volume:	(uL)	Soil Aliquot V	folume:(uL

CAS NO.	COMPOUND	CONCENTRATION UNI (ug/L or ug/Kg) [2
100-41-4	Benzene Toluene Ethylbenzene Xylenes (tota		2.0 U 2.0 U 2.0 U 2.0 U 5.0 U	u

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1A VOLATILE ORGANICS ANALYSIS DATA	
Lab Name: GENERAL ENGINEERING LABOR Contrac	t: N/A
Lab Code: N/A Case No.: N/A SAS No	.: N/A SDG No.: 61802
Matrix: (soil/water) WATER	Lab Sample ID: 61802011
Sample wt/vol: 5.000 (g/ml) ML	Lab File ID: 70524
Level: (low/med) LOW	Date Received: 06/10/02
% Moisture: not dec.	Date Analyzed: 06/21/02
GC Column: DB-624 ID: 0.25 (mm)	Dilution Factor: 1.0
Soil Extract Volume:(uL)	Soil Aliquot Volume:(uL

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/L		Q	
100-41-4	Benzene Toluene Ethylbenzene Xylenes (tota		2.0	U	4

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VOLATILE ORGANICS	A ANALYSIS DATA SH	EET	EPA SAMPLE NO.
Lab Name: GENERAL ENGINEERING			HP0048
Lab Code: N/A Case No.:		N/A SDG	No.: 61802
Matrix: (soil/water) WATER	3	Lab Sample ID:	61802004
Sample wt/vol: 5.000 (g/	ml) ML	Lab File ID:	70534
Level: (low/med) LOW		Date Received:	06/10/02
% Moisture: not dec.		Date Analyzed:	06/21/02
GC Column: DB-624 ID: 0.25	(mm)	Dilution Facto	r: 1.0
Soil Extract Volume:(u	L)	Soil Aliquot V	olume:(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-41-4	Benzene Toluene Ethylbenzene Xylenes (tota		

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APPENDIX VI

SITE RANKING FORM

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Facility Name: Former Building 728			I	Ranked by:	S. Stoller		
County: <u>Chatham</u> Facility ID #: <u>9-025049</u>				I	Date Ranked:	7/26/200	2
SOIL (CONTAN	MINATION					
A. Total PAHs – B. Maximum Concentration found on the site (Assume <0.660 mg/kg if only gasoline			Total Benzene - Maximum Concentration found on the site				
	was su	ored on site)			<u><</u> 0.005 mg/kg	=	0
		$\leq 0.660 \text{ mg/kg} = 0$			>0.00505 mg	g/kg =	1
		>0.66 - 1 mg/kg = 10			>0.05 - 1 mg/kg	g =	10
		>1 - 10 mg/kg = 25			>1 - 10 mg/kg	=	25
•	* 🖂	>10 mg/kg = 50 997 CAP-Part B sample WB5901 at 4' – 6'			>10 - 50 mg/kg	=	40
			*	\boxtimes	>50 mg/kg * 1997 CAP-Part B san	= mple WB5901	50 at 4' – 6'
C.		to Groundwater below land surface)				ipie 112000 /	
		>50' bls = 1					
		>25' - 50' bls = 2					
		>10' - 25' bls = 5					
	\boxtimes	$\leq 10'$ bls = 10					
Fill in	the blar	uks: (A. <u>50</u>) + (B. <u>50</u>) = (<u>100</u>	_) x	(C	<u>10</u>) = (D. <u>1000</u>	<u>)</u>)	
GROU		ER CONTAMINATION					
E. Free Product (Nonaqueous-phase F. liquid hydrocarbons; See Guidelines For definition of "sheen").				Max (One	ssolved Benzene - aximum Concentration at the site ne well must be located at the source the release.)		
	\boxtimes	No free product = 0			,		0
		Sheen - 1/8" = 250			<u><</u> 5 µg/L		= 0
		>1/8" - 6" = 500	*		>5 - 100 µg/L	. /1	= 5
		>6" - 1ft. = 1,000			>100 - 1,000 µg	-	= 50
		For every additional inch, add another 100 points = <u>1,000 + 12,000</u>			>1,000 - 10,000 >10,000 µg/L * June 2002 Corrective		= 500 = 1500 le (D9)
Fill in	Fill in the blanks: (E. <u>0</u>) + (F. <u>50</u>) = (G. <u>50</u>)						

SITE RANKING FORM