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Final Report

Quarterly Monitoring Event 1 - March 1995
Sites 1 and 3 and Eastern Plume,
Naval Air Station, Brunswick, Maine

Contract No. N62472-92-D-1296
Contract Task Order No. 0047

Prepared for

Department of the Navy
Northern Division
Naval Facilities Engineering Command
10 Industrial Highway
Mail Stop No. 82
Lester, Pennsylvania 19113-2090

Prepared by

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June 1995
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DEPARTMENT OF THE NAVY
NORTHERN DIVISION
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IN REPLY REFER TO

5090
Ser 2539/1823/FE
JUN 30 1995

Environmental Protection Agency
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Boston, MA 02203

Maine Department of Environmental Protection
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Office of the Commissioner
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Augusta, ME 04333

Subj: INVESTIGATION OF AREA NORTH OF SITES 1 AND 3 AT NAS BRUNSWICK, BRUNSWICK, ME LTMP DATA - MARCH 1995

Dear Mr. Lim/Ms. Beardsley:

Enclosed are the reports on March 1995 Long Term Monitoring Event for Sites 1 and 3, Eastern Plume, Building 95, and Site 9 for your information and use.

If additional information is required, please contact me at (610) 595-0567 or Mr. Jim Caruthers at (207) 921-2445.

Sincerely,

Frederick J. Evans

FREDERICK J. EVANS, P.E.
Remedial Project Manager
By direction of the
Commanding Officer

Encls
(1) Quarterly Monitoring Event 1 - March 1995, Sites 1 and 3 and Eastern Plume
(2) Quarterly Monitoring Event 1 - March 1995, Building 95
(3) Quarterly Monitoring Event 1 - March 1995, Site 9

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QUALITY REVIEW STATEMENT

EA Project Number: 29600.47

Description of Report/Deliverable:

Final Report, Quarterly Monitoring Event 1 - March 1995, Sites 1 and 3 and Eastern Plume, Naval Air Station, Brunswick, Maine

EA Project Manager: Michael S. Battle, P.G.

In compliance with EA's Policy and Procedures for review of deliverables, this final deliverable has been reviewed for quality by the undersigned Senior Technical Reviewer(s). The information presented in this report/deliverable has been prepared in accordance with the approved scope of services for the project and reflects a proper presentation of the data and/or the conclusions drawn and/or the analyses or design completed during the conduct of the work. This statement is based upon the standards identified in the contract and/or the standard of care existing at the time of preparation.

Senior Technical Reviewer(s)

Gloria D. McCleary, P.E. 6/27/95

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Final Report

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Northern Division
Naval Facilities Engineering Command
10 Industrial Highway
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1. PROJECT DESCRIPTION

1.1 INTRODUCTION

Under Contract No. N62472-92-D-1296, Contract Task Order (CTO) No. 0047, Northern Division, Naval Facilities Engineering Command contracted with EA Engineering, Science, and Technology to perform long-term monitoring at Sites 1 and 3 and Eastern Plume at Naval Air Station (NAS), Brunswick, Maine. NAS Brunswick is located south of the Androscoggin River between Brunswick and Bath, Maine (Figure 1). The locations of Sites 1 and 3 and the Eastern Plume are provided on Figure 2.

NAS Brunswick is an active base owned and operated by the Federal Government through the Department of the Navy. In 1987, NAS Brunswick was placed on the National Priorities List by the U.S. Environmental Protection Agency (EPA) and is currently participating in the Navy's Installation Restoration Program. At Sites 1 and 3 and Eastern Plume, the Navy is required to perform long-term monitoring, maintenance, and corrective measures as part of the long-term remedial actions required by the Record of Decision dated June 1992 for Sites 1 and 3 and the Record of Decision dated June 1992 for the Eastern Plume. A Long-Term Monitoring Plan (LTMP) was established pursuant to these Records of Decision (ABB-ES 1994). Approval of the LTMP was received from EPA and State of Maine Department of Environmental Protection on 23 June 1994. Approval of the Method Detection Limit Study completed for EPA Method 8260 was received from EPA on 10 May 1995.

The LTMP document which is comprised of an LTMP, quality assurance project plan, health and safety plan, and remedial construction technical specifications, establishes the monitoring/ sampling requirements for Sites 1 and 3, and the Eastern Plume. Implementation of the LTMP will enable the Department of the Navy to collect data in order to conduct a 5-year review, which is a required analysis of newly promulgated or modified federal and state regulations to determine if they challenge the protectiveness of the implemented remedial strategy. Although quarterly sampling is required for a 30-year period, the 5-year review evaluation will provide a basis for continued sampling and proposing refinements/alterations to the monitoring program or remedial activity, if appropriate.

1.2 BACKGROUND

1.2.1 Sites 1 and 3

Sites 1 and 3 are two inactive landfills within a restricted area in the central portion of NAS Brunswick. Records indicate these landfills were used to dispose of wastes including garbage, food, oil, solvents, pesticides, petroleum products, paint, aircraft and automobile parts, and various chemicals. No waste material was observed at Site 3 and only low-level soil contamination was reported. Although considered as separate disposal areas, field sampling

activities did not show a clear delineation between the two sites. Environmental impacts were observed in several media at Sites 1 and 3: surface and subsurface soil, ground water, leachate, surface water, and sediment. The contaminants of concern include volatile organic compounds (VOC) and semivolatile organic compounds (SVOC), inorganic compounds (e.g., metals), polynuclear aromatic hydrocarbons, and pesticides.

1.2.2 Eastern Plume

The Eastern Plume is the result of solvent disposal from Site 4 (Acid/Caustic Pit), Site 11 (former Fire Training Area), and Site 13 (Defense Reutilization and Marketing Office area), which leached into ground water. The dissolved-phase hydrocarbon plume associated with these disposal activities was delineated and found to consist primarily of chlorinated VOC, including, among others, tetrachloroethylene, 1,1,1,-trichloroethane, and trichloroethylene.

1.2.3 Remedial Actions

Due to the fact that Sites 1 and 3 and the Eastern Plume are collocated, remedial actions and long-term monitoring for these sites have been undertaken concurrently. Remedial actions at Sites 1 and 3 include the construction of a low-permeability slurry wall upgradient of the landfills and the construction of a low permeability cap over the landfills, and placement of two extraction wells within the limits of the site. Ground water in the Eastern Plume will be remediated by a treatment system consisting of five ground-water extraction wells and a treatment plant constructed to remediate ground water and provide hydraulic control of the aquifer. This same treatment plant will treat ground water extracted by the two extraction wells installed within Sites 1 and 3.

1.3 PROGRAM OBJECTIVES

The objectives of the LTMP are to obtain data necessary to monitor the long-term effectiveness of the remedial actions conducted at Sites 1 and 3 and Eastern Plume. Monitoring and sampling data collected during the performance of long-term monitoring will be used to:

- Assess ambient water quality conditions (ground water and surface water).
- Evaluate the effectiveness of the ground-water extraction system and other *in situ* remedial actions by comparing ground-water chemical quality upgradient and downgradient of the landfill cap and slurry wall, and within the boundaries of the Eastern Plume.

- Analyze the effective capture zone of the ground-water extraction system at Sites 1 and 3 and Eastern Plume and ensuring hydraulic control of the aquifer by monitoring water levels at extraction wells, monitoring wells, and piezometers.

- Evaluate the effectiveness of the landfill cap and slurry wall by comparing chemical quality of surface water, ground water, sediment, and leachate seep samples within and adjacent to Sites 1 and 3.

- Establish a baseline for assessing the progress of the implemented remedial actions.

2. LONG-TERM MONITORING PROGRAM

2.1 MEASUREMENT OF WATER LEVEL ELEVATIONS

Water level measurements at a majority of the well and piezometers were obtained on 17-18 March 1995 at the locations indicated in Tables 1 and 2 for Sites 1 and 3 and Eastern Plume, respectively, including 53 ground-water monitoring wells, 16 EP-series piezometers, 10 P-series piezometers, and 7 ground-water extraction wells. Wells MW231A, MW-231B, MW-308, and MW-1104 were gauged 29-30 March 1995. Piezometer EP-8 was gauged on 5 April 1995 due to difficulties encountered in removing the cap. Several well/piezometer locations were not accessible due to ongoing construction activities at Sites 1 and 3.

Well gauging was conducted over a 2-day period (except those wells identified above) for purposes of assessing water table elevations over a short time period. Upon opening each well/piezometer, a Century Foxboro Model 128 organic vapor analyzer, flame ionization detector was used to monitor the presence of VOC at the mouth of the well and in the breathing zone. Following health and safety clearance monitoring, well gauging was conducted using either a QED Environmental Systems, Inc. Model 6000 or Slope Indicator Model 51453 water level indicator, each capable of measuring depth to water to an accuracy of 0.01 ft. For wells at which dedicated pumping systems were installed, depth to well bottom was also recorded to facilitate pump placement within the screened interval. Well gauging was completed by lowering the electronic water level sensing probe down the well and measuring depth to water and depth to bottom from the existing notch/indelible marking on the top of the well PVC riser. The gauging instrument was decontaminated according to the procedure specified in the LTMP (ABB-ES 1994).

2.2 GROUND-WATER MONITORING, SAMPLING, AND ANALYSIS

The ground-water sampling program was performed during the period 22-31 March 1995 in accordance with the general methodologies established in the LTMP (ABB-ES 1994). Dedicated Grundfos Redi-Flo2 stainless steel and Teflon® submersible pumping systems were installed at a majority of the wells to permit sampling using the low flow sampling technique. Several smaller diameter piezometers had to be sampled using peristaltic pumping techniques (Piezometers P-105, P-106, and P-111). Well MW-202B was sampled using a dedicated, disposable polyethylene bailer due to insufficient volume of standing water within the well. Ground-water samples were collected from 12 of 16 wells included in the long-term monitoring program at Sites 1 and 3. Ground-water samples were collected from 34 of the 40 wells/piezometers included in the LTMP at the Eastern Plume site. Tables 1 and 2 provide summaries of the wells/piezometers included in the ground-water sampling program. Appendix A provides a detailed summary of the protocol followed during the March 1995 sampling event. Figure 3 provides a schematic of a typical dedicated submersible pump assembly installed in a monitoring well.

2.2.1 Water Quality Indicator Parameter Measurements

An attempt was made to obtain ground-water samples from each well immediately upon reaching stabilization of the following water quality indicator parameters: pH, conductivity, temperature, and turbidity. Stabilization of water quality is observed when these water quality measurements agree within approximately 10 percent on three successive readings. This protocol was not always possible due to variable water recharge observed at several wells, and other well limitations, such as construction design (piezometers).

At Sites 1 and 3, wells which did not reach equilibrium of multiple water quality indicator parameters included Wells MW-202B and MW-216B. Wells which reached equilibrium of pH, temperature, and conductivity, but did not reach equilibrium of turbidity during purging included MW-210B, MW-217 A, MW-217B, and MW-220. The remaining wells at Sites 1 and 3 were sampled upon reaching equilibrium of water quality indicator parameters.

At the Eastern Plume site, all wells reached equilibrium of the water quality indicator parameters pH, temperature, and conductivity during well purging. Wells which reached equilibrium of pH, temperature, and conductivity, but did not reach equilibrium of turbidity during purging included MW-205, MW-207A, MW-208, MW-231A, MW-231B, MW-305, MW-308, and MW-313. The remaining wells at the Eastern Plume site were sampled upon reaching equilibrium of water quality indicator parameters. None of the four P-Series piezometers sampled during the March 1995 sampling event reached stabilization of water quality indicator parameters; this is suspected to be related to the design of the screened interval, which permits the flow-through of fines during purging.

2.2.2 Analytical Program

Ground-water samples were collected for analysis of Target Compound List (TCL) VOC plus a library search of 15 tentatively identified compounds by EPA Method 8260. In contradiction with the LTMP, and due to field error, ground-water samples collected at Sites 1 and 3 were not collected for analysis of Target Analyte List (TAL) metals by atomic adsorption and inductively coupled plasma, and cyanide by EPA Method 9010. All samples were analyzed by Pace Incorporated.

2.3 SURFACE WATER, SEDIMENT, AND SEEP SAMPLING AND ANALYSIS

The surface water, sediment, and leachate seep sampling program at Sites 1 and 3 was performed during the period 19-20 March 1995 in accordance with the general methodologies established in the LTMP (ABB-ES 1994). Surface water and sediment samples were collected from 7 locations downgradient of Sites 1 and 3; leachate seep samples were collected at 5 locations at the toe of the Sites 1 and 3 landfill footprint. The locations of these sample stations were marked with steel fence posts, which were driven into the unconsolidated sediment, and orange marker flags.

Table 1 provides a summary of the locations included within the surface water, sediment, and seep sampling program and the sampling method used. Appendix A provides detailed summaries of the sampling protocols followed during the March 1995 sampling event.

Surface water, sediment, and seep samples were collected for analysis of TCL VOC plus a library search of 15 tentatively identified compounds by EPA Method 8260, TAL metals by atomic adsorption and inductively coupled plasma, and by EPA 9010 for cyanide. Samples were analyzed by Pace Incorporated.

3. DATA MANAGEMENT

3.1 QUALITY ASSURANCE/QUALITY CONTROL

A rigorous quality assurance/quality control program is required by the LTMP to meet the data quality objectives (DQOs) of the aqueous and sediment sampling program, as outlined in the Quality Assurance Project Plan (QAPP) contained in the LTMP (ABB-ES 1994). The data obtained during the March 1995 sampling event were determined to be of sufficient quality to be used to evaluate:

- Water quality conditions prior to completion of the slurry wall and landfill cap at Sites 1 and 3 and start-up of the ground-water treatment system at Sites 1 and 3 and Eastern Plume.

- Baseline conditions for future analysis of potential impacts of remedial activities on ground-water, surface water, sediment, and seep quality.

To meet the DQOs, chain-of-custody, sampling handling practices, and documentation were maintained in the field in accordance with the LTMP (ABB-ES 1994). Sample data were noted both in field logbooks and on field record forms (Appendix B).

Field quality control was documented through the submission of field quality control samples for analysis, including:

- **Trip Blanks**—Trip blanks were submitted with each sample shipment to assess the potential for aqueous sample contamination during sample shipment. The trip blank consisted of deionized water in a volatile organic analysis vial shipped together with the volatile organic analysis samples in order to detect the possible introduction of contaminants during sample shipment.

- **Field Duplicates**—Field duplicates were collected to assess the homogeneity of the sampled media and the precision of the sampling protocol. Aqueous field duplicates are collected by obtaining an equal volume of sample into two sets of sample containers. Field duplicates of sediment are prepared by homogenizing, or mixing, a large portion of sample and placing equal amounts in two sets of sample containers. Homogenizing is not appropriate for VOC samples; in such cases, two grab samples are taken from the same location. Field duplicates of ground water, surface water, seeps, and sediment are collected and submitted for analysis at a rate of 10 percent of each sample delivery group, or a minimum of one per sample event.

- **Equipment Blanks**—Equipment (rinsate) blanks were collected for each sample event requiring the use of non-dedicated sampling equipment (e.g., hand auger) to assess the completeness of the decontamination procedure. Equipment blank samples were collected at a minimum frequency of one per day per media sampled (e.g., during the collection of sediment samples). Additionally, one equipment blank was collected from a dedicated pump system prior to installation into a well to document the cleanliness of the dedicated pump systems. The pump system blank was collected by running laboratory-supplied deionized water through a newly assembled dedicated submersible pump system.

- **Source Water Blanks**—A sample of the source water used for decontamination of sampling equipment was collected and analyzed for TCL VOC and TAL elements. Deionized source water is supplied by the laboratory. Source water blanks are used to assess the potential for sample contamination as a result of using equipment contaminated by source water.

- **Matrix Spike/Matrix Spike Duplicate (MS/MSD) Samples**—As required by EPA analytical methods specified in SW-846, MS/MSD samples were collected at a minimum frequency of 5 percent for each sample delivery group. MS/MSD sample analyses are used to evaluate the effect of the sample matrix on the accuracy and precision of the laboratory methods and are prepared in the field by purging/collecting an equal volume of sample into three sets of sample containers.

3.2 ANALYTICAL DATA QUALITY REVIEW

3.2.1 Procedure

Pace Incorporated provided data packages consisting of EPA Level III (as defined by EPA DQO guidance) deliverables, including sample analysis data, blank analysis data, duplicate sample results, surrogate recoveries, matrix spike recoveries, and laboratory control sample recoveries. The level of data quality required by the LTMP does not require validation and documentation of EPA Contract Laboratory Program procedures, though the data packages prepared by the Pace Incorporated are similar in content for VOC analyses.

As required by the QAPP, validation of laboratory data was performed on selected quality control parameters to evaluate precision, accuracy, representativeness, completeness, and comparability and DQO requirements. The following parameters were evaluated in each data deliverable package:

- Proper chain-of-custody documentation
- Sample holding times

- Laboratory method blanks, trip blanks, source water blanks, and equipment blanks
- Field duplicate sample results
- MS/MSD results
- Matrix spike recoveries
- Laboratory control sample recoveries
- Compound/analyte quantitation limits.

A summary of the analytical data quality review for data generated by Pace Incorporated is provided in Appendix C. With the exceptions discussed in Appendix C, the data represented in this report were found to meet specified acceptance criteria and, therefore, represent data in compliance with the QAPP contained in the LTMP (ABB-ES 1994).

4. WATER LEVEL GAUGING PROGRAM RESULTS

Ground-water potentiometric elevations measured on 17-18 and 29-30 March 1995 and 5 April 1995 during the first quarterly monitoring event at Sites 1 and 3 and Eastern Plume are provided in Tables 3 and 4, respectively. Well MW-308 was gauged on 29 March 1995 because the water within the well riser was initially frozen when attempted to be gauged on 17 March 1995. Wells MW-1104 and MW-231A and MW-231B were gauged on 29 and 30 March 1995, respectively, because these wells were added to the well gauging/sampling program following mobilization on 17 March 1995. Piezometer EP-8 was gauged on 5 April 1995 because the PVC cap could not be removed during the 17-18 March 1995 gauging event.

At Sites 1 and 3, water table elevations could not be obtained at Wells MW-210A and MW-215 and Piezometer EP-16 during this quarterly event due to construction-related activities associated with the landfill closure. At the Eastern Plume site, water within Piezometers P-111, EP-2, EP-3, EP-9, and EP-10 was found to be frozen at depths ranging from 2.00 ft (EP-10) to 4.66 ft (EP-2) below top of well riser. Water levels within Piezometers P-104 and P-107 were not obtained due to obstructions within the casings.

Depth to ground water at Sites 1 and 3 ranged from 6.88 ft below top of well riser (MW-210B) to 32.92 ft below top of well riser (MW-218). Depth to ground water at the Eastern Plume ranged from artesian conditions at multiple wells (Table 4) to 25.13 ft below top of well riser (Piezometer P-103).

Depth to well bottom measurements were also obtained during the first quarterly monitoring event to facilitate the setting of dedicated pumping systems within the wells included in the ground-water sampling program. These data are presented in Tables 3 and 4 for Sites 1 and 3 and Eastern Plume, respectively. Depth to well bottom measurements were compared to previously reported well completion depths. No discrepancies were noted, indicating the integrity of the well structures has been maintained.

Observations of the presence and integrity well protection equipment were also made during the completion of the well gauging program. Deficiencies in well labeling, capping, and/or locking were observed at several wells/piezometers gauged, as noted on the Field Record of Well Gauging forms provided in Appendix B. Corrective measures taken during the first quarterly event included furnishing keyed brass locks as required on wells/piezometers and labeling wells as needed. An inventory of missing and damaged well caps was also taken to facilitate their replacement during the sampling phase of the March 1995 quarterly event (new caps installed as part of the dedicated pump system assemblies).

5. ANALYTICAL RESULTS

5.1 WATER QUALITY INDICATOR PARAMETERS

Water quality indicator parameters were measured during the collection of ground-water, surface water, and leachate seep samples according to the methods specified in the LTMP (ABB-ES 1994). The results of water quality parameter monitoring at the time samples were collected are summarized in Tables 5 and 6 for ground-water and surface water samples collected at Sites 1 and 3, respectively. Table 7 provides a summary of the water quality parameter indicators measured in ground-water samples collected at the Eastern Plume.

5.1.1 Sites 1 and 3

In general, the pH and turbidity of ground water were fairly consistent across Sites 1 and 3, regardless of the depths at which samples were collected. Ground-water pH at Site 1 and 3 ranged from 6.21 units (Well MW-210B) to 8.08 units (Well MW-218), with pH measurements averaging 6.62 units. Turbidity measured in ground water purged at Sites 1 and 3 ranged from 0.62 nephelometric turbidity unit (NTU) (Well MW-204) to 258 NTU (Well MW-202B). With the exception of Well MW-208B, turbidity did not exceed 10 NTU in any other well except MW-217B (28 NTU). As anticipated due to the varying depths of wells sampled, temperature, conductivity, and dissolved oxygen varied more widely (Table 5).

Surface water and leachate seep sample pH measurements ranged from 6.32 units (Seep SP-04) to 7.44 units (Seep SP-01). Turbidity in several surface water and seep samples were measured below 20 NTU; remaining turbidity measurements exceeded the linear range of the monitoring instrument (e.g., >1,000 NTU). Consistent with the variability in sample locales and times sampled, temperature, conductivity, and dissolved oxygen varied widely (Table 7).

5.1.2 Eastern Plume

Turbidity and pH of ground water across the Eastern Plume varied more than the measurements recorded at Sites 1 and 3. Ground-water pH at monitoring wells and piezometers ranged from 5.61 units (Well MW-224) to 11.15 units (Well MW-230A), with pH measurements averaging 7.39 units. Turbidity measured in ground water purged from wells at Eastern Plume ranged from 0.68 NTU (Well MW-206B) to 167 NTU (Well MW-305). Turbidity values below 10 NTU were recorded at 23 of 30 monitoring wells sampled. Turbidity measurements at piezometers were found to be much higher (>1,000 NTU at 3 of 4 piezometers sampled); this is likely attributable to the design of the piezometers screens. Temperature, conductivity, and dissolved oxygen were varied at these sample locations.

5.2 GROUND WATER

5.2.1 Sites 1 and 3

Table 8 provides a summary of the VOC detected in the 12 ground-water samples collected at Sites 1 and 3. Samples were not analyzed for TAL elements through field error. Appendix D provides a summary table for tentatively identified compounds detected in these samples. Summary tables for the analyses performed are provided in Appendix E.

Data generated as a result of the first quarterly sampling event indicate that 14 VOC were detected at reportable concentrations in the samples. Methylene chloride was detected at low concentrations in 6 of 12 ground-water samples, however, this compound was also detected in the associated method blanks; 1,1,1-trichloroethane was only detected in an associated trip blank.

VOC were reported in 9 of the 12 monitoring wells sampled at Sites 1 and 3 during the March 1995 sampling event. No reportable concentrations of VOC were found in Wells MW-219 and MW-232A. Detected VOC in remaining samples ranged from a single compound (Wells MW-217B) to 9 VOC (Well MW-202A). Several samples contained VOC that were also reported in the associated trip blank, indicating the possible introduction of contaminants during sample shipment. The equipment blank collected on a newly assembled pump system was reported to be absent of detectable concentrations of VOC, with the exception of methylene chloride, which was also detected in the associated method blank.

VOC present in multiple site wells include the following:

- 1,1-dichloroethane in 4 samples (MW-202A, MW-202B, MW-203, and MW-218). This compound was also reported in the trip blank associated with MW-202A, MW-203, and MW-218. The Federal Maximum Contaminant Level and State Maximum Exposure Guideline for this compound is 5 µg/L.

- Total 1,2-dichloroethene in 3 samples (MW-202A, 210B, and 216B). This compound was also reported in the associated trip blank.

- Acetone in 7 samples (MW-202A, MW-202B, MW-203, MW-204, MW-216B, MW-217A, and MW-218). This compound was also reported in the associated trip blank, and in an associated method blank.

- Chlorobenzene in 3 samples, with reported concentrations ranging from 3J µg/L (MW-210B) to 24 µg/L (MW-202A).

- Ethylbenzene in 4 samples, with reported concentrations ranging from 4 µg/L (MW-210B) to 430 µg/L (MW-202A). The Federal Maximum Contaminant Level and State Maximum Exposure Guideline for ethylbenzene are both set at 700 µg/L.

- Toluene in 3 samples, with reported concentrations ranging from 1J µg/L (MW-210B) to 1,300 µg/L (MW-216B). The Federal Maximum Contaminant Level and State Maximum Exposure Guideline for toluene are 1,000 µg/L and 1,400 µg/L, respectively.

- Vinyl chloride in 3 samples, with reported concentrations ranging from 10 µg/L (MW-202A) to 290 µg/L (MW-216B). The Federal Maximum Contaminant Level and State Maximum Exposure Guideline for vinyl chloride are 2 µg/L and 0.15 µg/L, respectively.

- Total xylenes in 6 samples, with reported concentrations ranging from 1J µg/L (MW-203) to 1,300 µg/L (MW-202A). The Federal Maximum Contaminant Level and State Maximum Exposure Guideline for total xylenes are 10,000 µg/L and 600 µg/L, respectively.

- Chloroethene in 2 samples (MW-202B and 203) at concentrations of 2 µg/L.

- Trichloroethene in 2 samples (MW-204 and MW-217B) at low concentrations. This compound was also reported in the associated trip blank.

5.2.2 Eastern Plume

Table 9 provides a summary of the VOC detected in ground-water samples collected at the Eastern Plume. Appendix D provides a summary table for tentatively identified compounds (VOC) reported in the samples. The summary tables for these analyses are provided in Appendix E.

Data generated as a result of the first quarterly sampling event indicate that 15 VOC were detected at reportable concentrations in these samples. Methylene chloride and acetone were reported at low concentrations in numerous ground-water samples, however, these compounds were also reported in the several of the corresponding method blanks, suggesting these compounds may be laboratory artifacts. With the exception of trace concentrations of methylene chloride and/or acetone, VOC were not reported in ground-water samples collected at MW-206B, MW-230A, MW-231A, and MW-307. Concentrations of total VOC in remaining wells/piezometers ranged from 1J µg/L (Wells MW-105A, MW-305, MW-308, and MW-309A) to 4,168 µg/L (Piezometer P-105). Concentrations of total VOC were below 10 µg/L at 17 of 34 wells/piezometers sampled.

VOC present in two or more site wells include the following:

- 1,1,1-trichloroethane in 14 site wells/piezometers, ranging in concentration from 1J µg/L (MW-106) to 3,300 µg/L (P-105). The corresponding Federal Maximum Contaminant Level and State Maximum Exposure Guideline for this compound is 200 µg/L.

- Total 1,2-dichloroethene in 12 site wells/piezometers, ranging from 3 µg/L (MW-208) to 260 µg/L (MW-1104). The corresponding Federal Maximum Contaminant Level and State Maximum Exposure Guideline for this compound is 70 µg/L.

- Trichloroethene in 16 wells/piezometers, ranging in concentration from 1J µg/L (MW-310) to 460 µg/L (P-105). The corresponding Federal Maximum Contaminant Level and State Maximum Exposure Guideline for this compound is 5 µg/L.

- Tetrachloroethene in 17 wells/piezometers, ranging in concentration from 1J µg/L (MW-222 and MW-223) to 24 µg/L (MW-205). The corresponding Federal Maximum Contaminant Level and State Maximum Exposure Guideline for this compound are 5 µg/L and 3 µg/L, respectively.

- 1,1-Dichloroethene in 9 site wells, ranging in concentration from 1 µg/L (MW-208) to 300 µg/L (P-105). The corresponding Federal Maximum Contaminant Level and State Maximum Exposure Guideline for this compound is 7 µg/L.

- 1,1-Dichloroethane in 5 wells/piezometers, at concentrations ranging from 1J µg/L (MW-308) to 53 µg/L (P-105). The corresponding Federal Maximum Contaminant Level and State Maximum Exposure Guideline for this compound is 5 µg/L.

- Acetone in 15 site wells/piezometers, ranging in concentration from 1J µg/L (MW-309A) to 350 µg/L (P-106). This compound was also reported in the method blank associated with 7 of the 15 samples, and is a common laboratory artifact.

- Carbon disulfide in 2 samples, with reported concentrations ranging from 2J µg/L (MW-207A) to 170 µg/L (MW-208).

5.3 SURFACE WATER

Table 10 provides a summary of the constituents detected in surface water samples collected at Sites 1 and 3; the report of laboratory analyses tables for these samples is provided in Appendix E. One tentatively identified compound (2-propanol, RT 5.82 min) was reported in one sample (SW-7) at a concentration of 6JN. Data generated as a result of the first quarterly sampling event indicate that 4 VOC were reported in the samples, though 2 of the 4 VOC (methylene chloride and acetone) were also detected in associated method blanks. The remaining 2 VOC reported in the surface water samples include 1,1,2,2-trichloroethane and 2-hexanone; 1,1,2,2-Trichloroethane was detected at trace concentrations in 3 samples, ranging from 1J µg/L (SW-4) to 2J µg/kg (SW-3 and SW-7); and 2-Hexanone was reported in one sample (SW-7) at an estimated concentration of 3J µg/L.

A total of 18 TAL elements were detected at reportable concentrations in the 7 surface water samples collected for analysis (Table 10). These included the following 17 metals: aluminum, barium, calcium, chromium, cobalt, copper, iron, lead, magnesium, manganese, mercury, potassium, selenium, silver, sodium, vanadium, and zinc. Cyanide was reported in one sample (SW-7) at a concentration below the Contract Required Detection Limit. Elevated concentrations of calcium, iron, magnesium, potassium, and sodium were observed at all surface water sample locations.

5.4 SEDIMENT

Table 11 provides a summary of the constituents detected in sediment samples collected at Sites 1 and 3. Appendix D provides a summary table for tentatively identified compounds (VOC) reported in the samples. The reports of laboratory analyses for sediment samples are provided in Appendix E. Data generated as a result of the first quarterly sampling event indicate that 6 VOC were detected in the 7 sediment samples. Two of the 6 VOC reported in the samples (methylene chloride and acetone) are suspected field or laboratory contaminants. Methylene chloride was detected in the associated method blanks. Acetone is a suspected artifact resulting from incomplete decontamination of non-dedicated sampling equipment. The 4 remaining VOC reported in the sediment samples include chloroethane, ethylbenzene, total xylenes, and 2-butanone. Chloroethane was detected at an estimated concentration of 2J µg/L in sediment sample SED-6. Ethylbenzene was reported in sediment sample SED-6 at an estimated concentration of 2 µg/kg. Total xylenes were reported in the SED-6 sediment sample at an estimated concentration of 1 µg/kg; 2-Butanone was reported in one sample (SED-7) at an estimated concentration of 3J µg/kg.

TAL elements were detected at reportable concentrations in the 7 sediment samples. A total of 21 metals were reported. Lead concentrations ranged from 5.9 mg/kg (SED-3) to 22.3 mg/kg (SED-1).

5.5 LEACHATE SEEPS

Table 12 provides a summary of the constituents detected in leachate seep samples collected at Sites 1 and 3. Appendix D provides a summary table for tentatively identified compounds (VOC) reported in the samples. The reports of laboratory analyses for leachate seep samples are provided in Appendix E. Data generated as a result of the first quarterly sampling event indicate that 13 VOC were reported in the seep samples. Methylene chloride was detected in 3 of 5 seep samples, however, this compound was also detected in the associated method blank. Excluding methylene chloride, VOC were not detected at seep locations SEEP-4 and SEEP-5. Compounds detected in the remaining samples included 1,1,1-trichloroethane; 1,1,2-trichloroethane, 1,1,-dichloroethane, acetone, trichloroethene, tetrachloroethene, 1,1,2,2-tetrachloroethane, 1,2-dichloroethane, benzene, chlorobenzene, ethylbenzene, and total xylenes.

TAL elements were detected at reportable concentrations at all 5 seep locations (Table 12). Sixteen metals and cyanide were reported in the seep samples. Elevated concentrations of calcium, iron, magnesium, manganese, potassium, and sodium were reported in all samples.

6. SUMMARY AND CONCLUSIONS

Long-term monitoring activities were conducted during the first quarterly monitoring event as specified in the LTMP (ABB-ES 1994), including gauging of water levels in site monitoring wells and piezometers; ground-water sampling at specified monitoring wells and piezometers; and surface water, sediment, and leachate seep sampling.

Depth to water in the monitoring wells at Sites 1 and 3 ranged from 6.88 ft below top of well riser (MW-210B) to 32.92 ft below top of well riser (MW-218) during the March 1995 gauging event. Depth to water in the monitoring wells and piezometers at the Eastern Plume ranged from artesian conditions (multiple wells) to 25.13 ft below top of well riser (P-103).

6.1 GROUND WATER

6.1.1 Sites 1 and 3

Data generated during the first quarterly event indicate that 13 VOC were reported in the ground-water samples collected from the 12 wells sampled at Sites 1 and 3. Samples were not analyzed for TAL elements through field error. Low concentrations of methylene chloride were reported in 6 of 12 samples; however, this compound was also reported in the associated laboratory method blanks. No VOC were reported in the ground-water samples collected from Wells MW-219 and MW-232A.

Concentrations of 5 VOC were reported at concentrations above Federal Maximum Contaminant Levels and/or State Maximum Exposure Guidelines as summarized below.

- Concentrations of 1,1-dichloroethane were reported above the Federal Maximum Contaminant Level and State Maximum Exposure Guideline of 5 µg/L at Wells MW-202A (8 µg/L) and MW-202B (15 µg/L).

- Total 1,2-dichloroethene was reported at a concentration above the Federal Maximum Contaminant Level and State Maximum Exposure Guideline of 100 µg/L at Well MW-216B (520 µg/L).

- Concentrations of toluene were reported above the Federal Maximum Contaminant Level of 1,000 µg/L at Well MW-216B (1,300 µg/L).

- Vinyl chloride was reported at concentrations above the State Maximum Exposure Guideline of 0.15 µg/L and Federal Maximum Contaminant Level of 2 µg/L at Wells MW-202A (10 µg/L), MW-210B (18 µg/L), and MW-216B (290 µg/L).

- Total xylenes were reported at a concentration above the State Maximum Exposure Guideline of 600 µg/L at Well MW-202A (1,300 µg/L).

6.1.2 Eastern Plume

Fifteen VOC were reported in the ground-water samples collected from monitoring wells and piezometers at the Eastern Plume. With the exception of reported concentrations of methylene chloride and acetone (suspected laboratory contaminants), no other VOC were reported in the samples collected at MW-206B, MW-230A, MW-231A, and MW-307.

Eight VOC were reported at concentrations above Federal Maximum Contaminant Levels and/or State Maximum Exposure Guidelines as summarized below:

- Concentrations of 1,1,1-trichloroethane were reported above the Federal Maximum Contaminant Level and State Maximum Exposure Guideline of 200 µg/L at Wells MW-205 (220 µg/L), MW-306 (670 µg/L), MW-1104 (350 µg/L), P-105 (3,300 µg/L), and P-106 (840 µg/L).

- One sample (MW-1104, 260 µg/L) had a reported concentration of total 1,2-dichloroethene above the Federal Maximum Contaminant Level and State Maximum Exposure Guideline of 100 µg/L.

- Concentrations of trichloroethene were reported above the Federal Maximum Contaminant Level and State Maximum Exposure Guideline of 5 µg/L at 13 wells and piezometers, ranging up to 460 µg/L (P-105).

- Tetrachloroethene was reported above the Federal Maximum Contaminant Level of 5 µg/L and State Maximum Exposure Guideline of 3 µg/L in Wells MW-106 (13 µg/L), MW-205 (24 µg/L), MW-206A (6 µg/L), MW-207A (10 µg/L), MW-225A (18 µg/L), MW-229A (8 µg/L), MW-319 (16 µg/L), and piezometer P-105 (8 µg/L). The State Maximum Exposure Guideline was also exceeded at Piezometer P-106 (4 µg/L).

- 1,1-dichloroethene was reported above the Federal Maximum Contaminant Level and State Maximum Exposure Guideline of 7 µg/L in Wells MW-205 (13 µg/L), MW-306 (25 µg/L), P-105 (300 µg/L), and P-106 (92 µg/L).

- 1,1-dichloroethane was reported above the Federal Maximum Contaminant Level and State Maximum Exposure Guideline of 5 µg/L in Wells MW-306 (48 µg/L), MW-1104 (46 µg/L), P-105 (53 µg/L), and P-106 (24 µg/L).

- One sample (P-105; 5 µg/L) had a reported concentration of 1,1,2-trichloroethane above the State Maximum Exposure Guideline of 3 µg/L.

- 1,2-dichloroethane was reported above the Federal Maximum Contaminant Level and State Maximum Exposure Guideline of 5 µg/L in Piezometers P-105 (12 µg/L), and P-106 (6 µg/L).

6.2 SURFACE WATER

VOC analysis of the 7 surface water samples collected at Sites 1 and 3 indicated the presence of 4 VOC, though 2 of these VOC (methylene chloride and acetone) were reported in the associated method blanks. Excluding these compounds, no VOC were reported in surface water samples SW-1, SW-2, SW-5, and SW-6. The 2 remaining detected VOC (1,1,2,2-trichloroethane and 2-hexanone) were reported at estimated concentrations (below Contract Required Quantification Limits) in 3 of 7 samples.

TAL elements were reported in each of the 7 surface water samples collected for these analyses. Lead was reported in 1 of 7 surface water samples, at a concentration below the Contract Required Detection Limit (SW-5; 2 µg/L). Manganese was reported in the 7 surface water samples, with concentrations ranging from 153 µg/L (SW-4) to 411 µg/L (SW-3). Zinc was reported in the 7 surface water samples, with reported concentrations ranging from 12.3B µg/L (SW-3) to 160 µg/L (SW-1). Zinc was also reported in the associated source water blank at a concentration below the Contract Required Detection Limit. Cyanide was reported in 1 sample (SW-7) at a concentration below the Contract Required Detection Limit (2.7 µg/L).

6.3 LEACHATE SEEPS

Analysis of the 5 leachate seep samples collected at Sites 1 and 3 confirmed the presence of 13 VOC in these samples, though the presence of methylene chloride in 3 samples was attributed to laboratory contamination. Excluding methylene chloride, no other VOC were reported in seep samples SEEP-4 and SEEP-5. Five VOC identified as contaminants of concern in leachate seeps (ABB-ES 1994) were reported sporadically at low concentrations in 2 seeps (SEEP-1 and SEEP-3).

Seventeen TAL elements were reported in the leachate seep samples, including the contaminants of concern discussed below. The contaminants of concern antimony, beryllium, cadmium, and chromium were not detected in the 5 seep samples.

- Arsenic, which was reported in 3 of 5 seep samples at concentrations ranging from 28.4 µg/L (SEEP-3) to 653 µg/L (SEEP-5).

- Cyanide, which was reported at concentrations below the Contract Required Detection Limit in 2 of 5 seep samples at concentrations of 1.2B µg/L (SEEP-4) and 1.3B µg/L (SEEP-5).

- Lead, which was reported in 2 of 5 seep samples at concentrations ranging

- Lead, which was reported in 2 of 5 seep samples at concentrations ranging from 6.2 µg/L (SEEP-4) to 13.8 µg/L (SEEP-5).

- Manganese, which was reported in the 5 seep samples at concentrations ranging from 532 µg/L (SEEP-4) to 5,040 µg/L (SEEP-5).

- Mercury, which was reported in 3 of 5 seep samples at concentrations ranging from 0.11B µg/L (SEEP-5) to 0.45 µg/L (SEEP-4).

- Nickel, which was reported in one seep sample at a concentration below the Contract Required Detection Limit (SEEP-4; 5.7B µg/L).

- Vanadium, which was reported in 4 of 5 seep samples at concentrations below the Contract Required Detection Limit, ranging from 3.4B µg/L (SEEP-2) to 113B µg/L (SEEP-5).

- Zinc, which was reported in the 5 seep samples at concentrations ranging from below the Contract Required Detection Limit (12.3B µg/L at SEEP-1) to 294 µg/L (SEEP-5).

6.4 SEDIMENT

Analysis of the 7 sediment samples collected at Sites 1 and 3 indicate the presence of 6 VOC. Two of the 6 detected VOC (methylene chloride and acetone) are suspected field or laboratory artifacts. Methylene chloride was reported at low concentrations in the 7 samples, the equipment rinse blank, and the source water blank, but is considered at laboratory artifact based on its presence in corresponding method blanks. Acetone was reported at elevated concentrations in the 7 sediment samples and the corresponding equipment rinsate blank, and is a suspected field contaminant resulting from an incomplete decontamination sequence of sampling equipment. With the exception of 34 µg/L of 2-butanone reported in sediment sample SED-3, remaining detected VOC were reported at concentrations below the Contract Required Quantitation Limits. The contaminant of concern 1,1,2,2-tetrachloroethane was not reported in any of the 7 sediment samples.

Twenty-one TAL elements were reported in the sediment samples, including the following contaminants of concern (ABB-ES 1994):

- Arsenic, which was reported in the 7 sediment samples at concentrations ranging from 2.7 mg/kg (SED-5) to 11.7 mg/kg (SED-6).

- Cadmium, which was reported in 6 of 7 sediment samples at concentrations below the Contract Required Detection Limit, ranging from 0.21B mg/kg (SED-1) to 0.43B mg/kg (SED-6).

- Chromium, which was reported in the 7 sediment samples at concentrations ranging from 4.5 mg/kg (SED-3) to 16.7 mg/kg (SED-5).

- Copper, which was reported in the 7 sediment samples at concentrations ranging from 2.4B mg/kg (SED-3) to 9.3 mg/kg (SED-1).

- Lead, which was reported in the 7 sediment samples at concentrations ranging from 5.9 mg/kg (SED-3) to 22.3 mg/kg (SED-1).

- Manganese, which was reported in the 7 sediment samples at concentrations ranging from 114 mg/kg (SED-1) to 864 mg/kg (SED-3). Manganese was also reported in the associated equipment blank at 1.4B mg/kg.

- Mercury, which was reported in 3 of 7 sediment samples at concentrations ranging from 0.09 mg/kg (SED-3) to 0.17 mg/kg (SED-1 and SED-2). Mercury was also reported in the associated equipment blank at 0.13B mg/kg.

- Nickel, which was reported in the 7 sediment samples at concentrations ranging from 3.9B mg/kg (SED-3) to 8.9 mg/kg (SED-4).

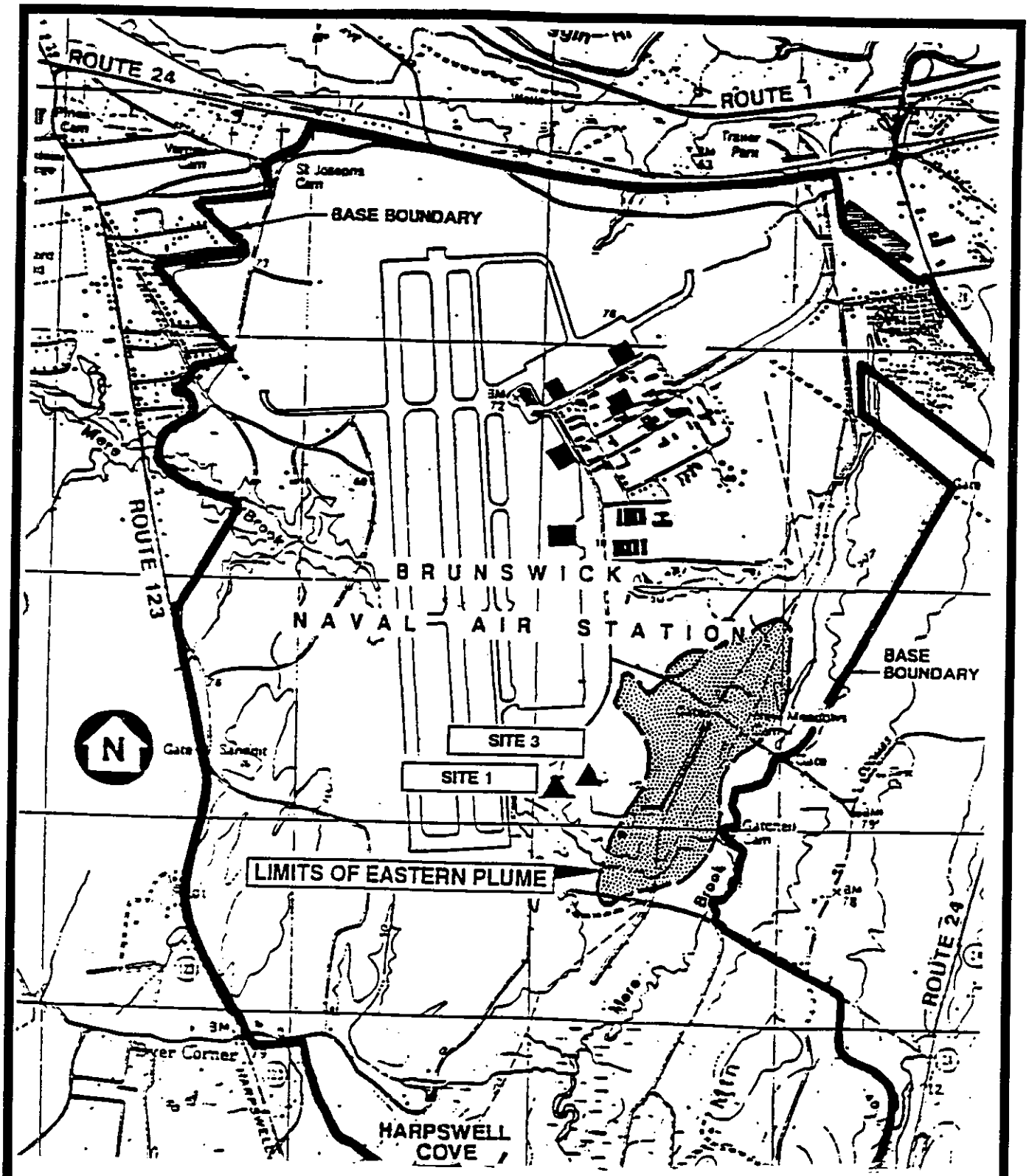
- Vanadium, which was reported in the 7 sediment samples at concentrations ranging from 11.3 mg/kg (SED-6) to 17.4 mg/kg (SED-2). Vanadium was also reported in the associated equipment blank at a concentration of 3.3B mg/kg.

- Zinc, which was reported in the 7 sediment samples at concentrations ranging from 32.3 mg/kg (SED-2) to 49.9 mg/kg (SED-4 and SED-7). Zinc was also reported in the associated equipment blank at a concentration of 14.5B mg/kg.

6.5 DISCUSSION

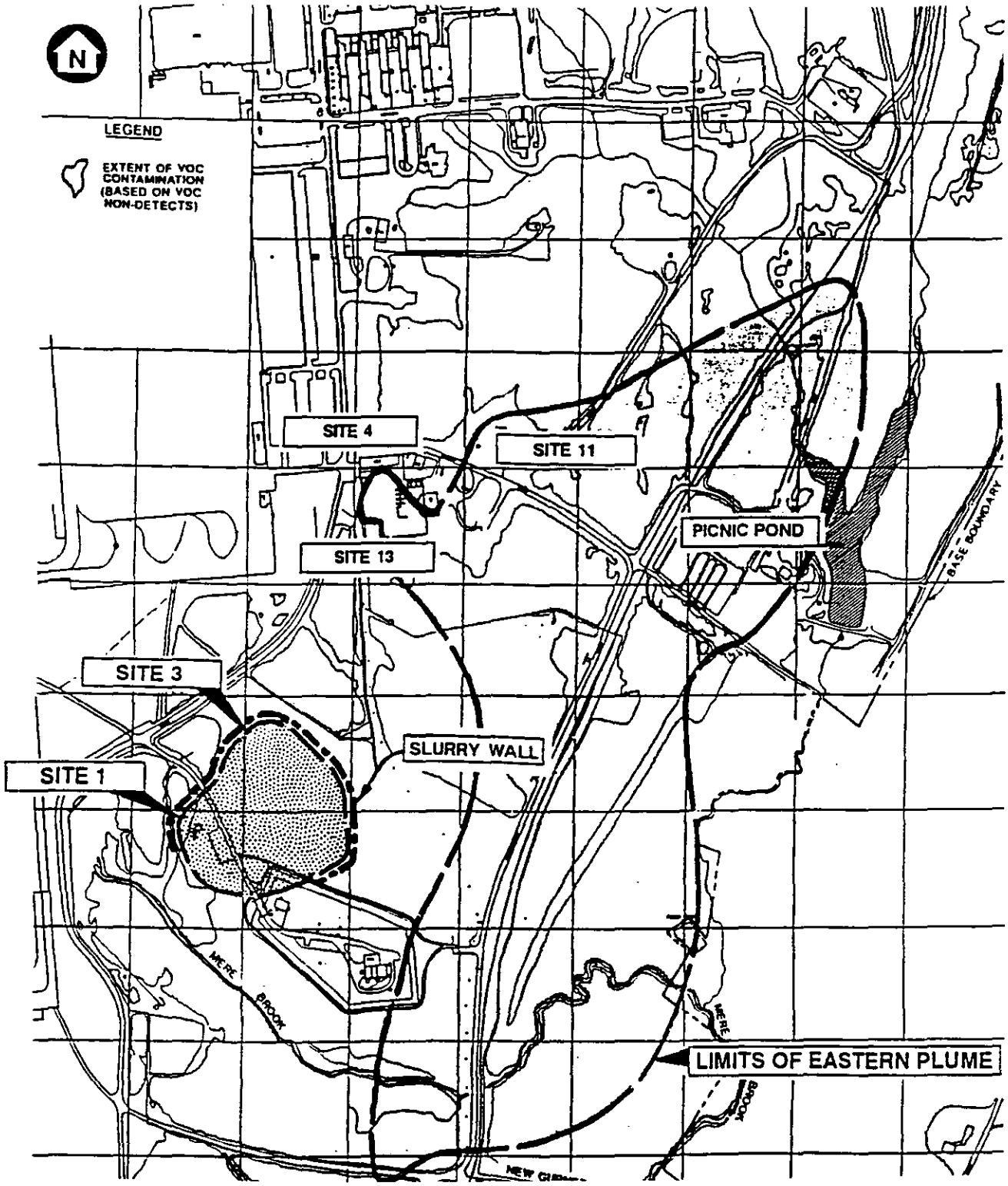
Based on the reported concentrations of TAL metals in surface water, sediment, and seep samples collected during this event, it is appropriate at this time to consider the use of trace inductively coupled plasma analytical methodologies for full analysis of the TAL metals list (except mercury), as opposed to continuing to perform graphite furnace analysis on select metals, including arsenic, chromium, lead, selenium, and thallium. Analysis of all TAL metals (except mercury) by trace ICP will meet the detection limit requirements established in the LTMP (ABB-ES 1994), and will reduce the amount of sample preparation and handling undertaken by the laboratory.

Based on the elevated concentrations of acetone reported in the sediment samples and associated equipment rinsate blank, and the detection of low concentrations of several TAL metals in the equipment rinsate blank associated with sediment samples, several steps of the decontamination procedure employed during sediment sampling will be monitored closely to reduce the potential for cross-contamination. This includes using cleaning detergent and isopropyl alcohol sparingly during the rinse sequence, and flushing equipment more thoroughly using laboratory-grade deionized water. The decontamination sequence will also be further lengthened during colder months to permit sufficient aeration of sampling equipment between rinse steps. Replacement of isopropyl alcohol with another solvent during the decontamination sequence is not warranted at this time given the conditions encountered in the field during the first quarterly monitoring event (e.g., temperatures below 30°F) and improved monitoring of the steps discussed above.



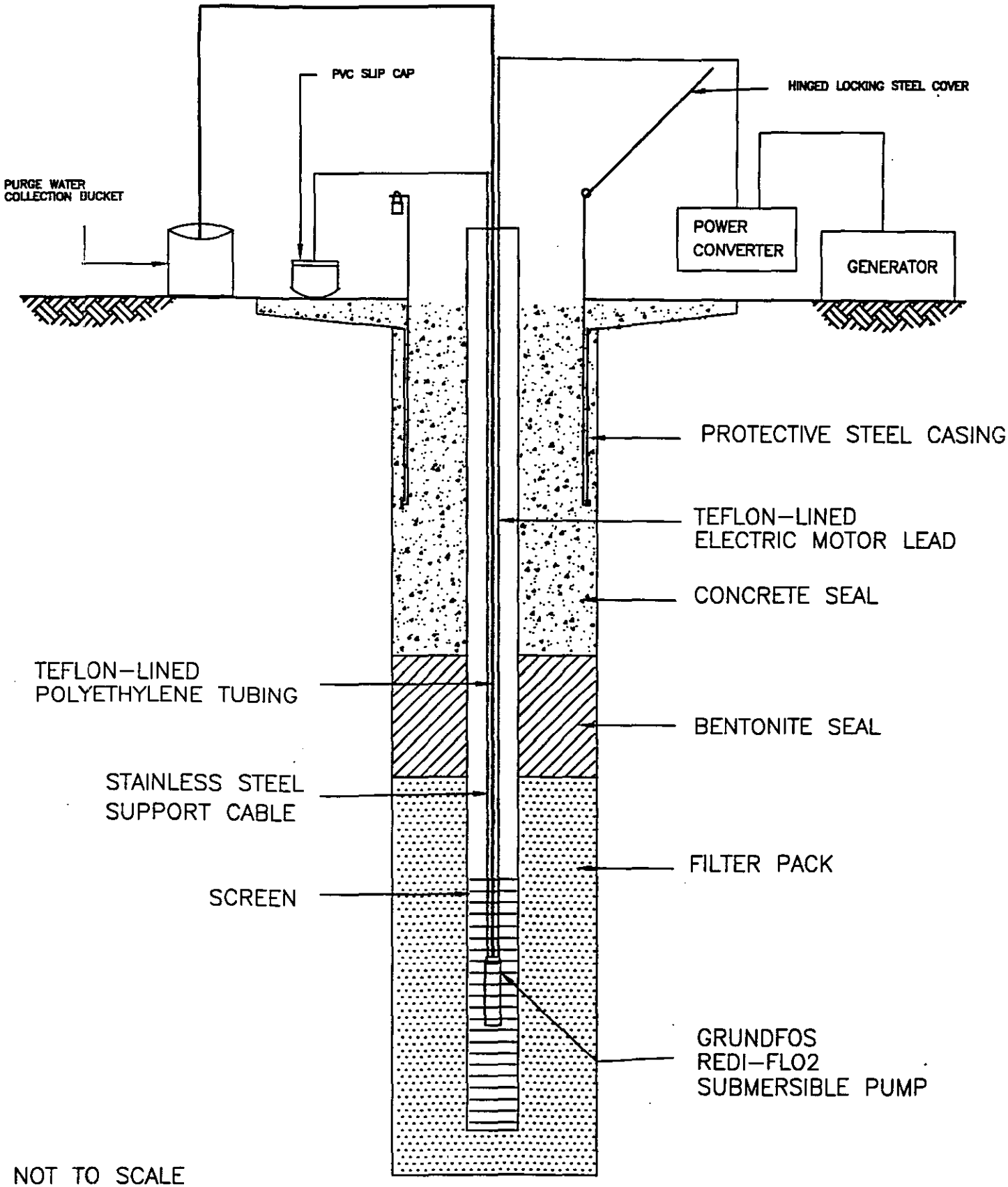
Source: USGS 7.5-minute series topographic maps: Brunswick, Maine, Quadrangles (1980); and Orrs Island, Maine, 1978. Scale 1:24,000.

Figure 1. Site location map for Sites 1 and 3 and Eastern Plume, Naval Air Station, Brunswick, Maine.



Source: Figure 1-3 of report titled, "Final Long-Term Monitoring Plan, Building 95, Sites 1 and 3 and Eastern Plume, Naval Air Station, Brunswick, Maine," prepared by ABB Environmental Services, Inc. (January 1995).

Figure 2. Site plan for Sites 1 and 3 and Eastern Plume, Naval Air Station, Brunswick, Maine.



DWG. FILE No. F:\CAD\AGWELL

EA ENGINEERING, SCIENCE, AND TECHNOLOGY

SCHEMATIC OF GENERALIZED INSTALLATION OF DEDICATED SUBMERSIBLE PUMP SYSTEM IN A MONITORING WELL

FIGURE 3

PROJECT MGR	DESIGNED BY	DRAWN BY	CHECKED BY	SCALE	DATE	PROJECT NO	FILE No.
MSB		SY		N.T.S.	26 JUNE 1995	29600.47	PUMP

TABLE 1 SUMMARY OF LONG-TERM MONITORING PROGRAM AT SITES 1 AND 3, NAVAL AIR STATION, BRUNSWICK, MAINE

Sample Type/Location	Monitoring Frequency	Sample Parameters		
		TCL VOC	TAL Elements	Field Parameters[a]
Monitoring Wells				
MW-202 A	Quarterly	X	X	X
MW-202 B	Quarterly	X	X	X
MW-203	Quarterly	X	X	X
MW-204	Quarterly	X	X	X
MW-210 A	Quarterly	X	X	X
MW-210 B	Quarterly	X	X	X
MW-215	Quarterly	X	X	X
MW-216 A	Quarterly	X	X	X
MW-216-B	Quarterly	X	X	X
MW-217 A	Quarterly	X	X	X
MW-217 B	Quarterly	X	X	X
MW-218	Quarterly	X	X	X
MW-219	Quarterly	X	X	X
MW-220	Quarterly	X	X	X
MW-232 A	Quarterly	X	X	X
MW-234	Quarterly	X	X	X
EW-6	Quarterly			X[b]
EW-7	Quarterly			X[b]
MW-201	Quarterly			X[b]
MW-211 A	Quarterly			X[b]
MW-211 B	Quarterly			X[b]
MW-223	Quarterly			X[b]
EP-16	Quarterly			X[b]

(a) Determination of field parameters in accordance with EPA/600/4-79/020 using the following methods: pH (Method 150.1), temperature (Method 170.1), specific conductance (Method 180.1), and dissolved oxygen (Method 360.1). Includes water level measurement.
(b) Determination of water level only.

NOTE: TAL = Target Analyte List; TCL VOC = Target Compound List Volatile Organic Compounds (EPA SW-846); SED = Sediment; SW = Surface Water.

Sample Type/Location	Monitoring Frequency	Sample Parameters		
		TCL VOC	TAL Elements	Field Parameters[a]
Seeps				
SEEP-1	Quarterly	X	X	X
SEEP-2	Quarterly	X	X	X
SEEP-3	Quarterly	X	X	X
SEEP-4	Quarterly	X	X	X
SEEP-5	Quarterly	X	X	X
Surface Water				
SW-1	Quarterly	X	X	X
SW-2	Quarterly	X	X	X
SW-3	Quarterly	X	X	X
SW-4	Quarterly	X	X	X
SW-5	Quarterly	X	X	X
SW-6	Quarterly	X	X	X
SW-7	Quarterly	X	X	X
Sediment				
SED-1	Quarterly	X	X	
SED-2	Quarterly	X	X	
SED-3	Quarterly	X	X	
SED-4	Quarterly	X	X	
SED-5	Quarterly	X	X	
SED-6	Quarterly	X	X	
SED-7	Quarterly	X	X	

TABLE 2 SUMMARY OF LONG-TERM MONITORING PROGRAM AT EASTERN PLUME, NAVAL AIR STATION, BRUNSWICK, MAINE

Sample Type/ Location	Monitoring Frequency	Sample Parameters	
		TCL VOC	Field Parameters[a]
Monitoring Wells			
MW-105 A	Quarterly	X	X
MW-105 B	Quarterly	X	X
MW-106	Quarterly	X	X
MW-205	Quarterly	X	X
MW-206 A	Quarterly	X	X
MW-206 B	Quarterly	X	X
MW-207 A	Quarterly	X	X
MW-207 B	Quarterly	X	X
MW-208	Quarterly	X	X
MW-209	Quarterly	X	X
MW-222	Quarterly	X	X
MW-223	Quarterly	X	X
MW-224	Quarterly	X	X
MW-225 A	Quarterly	X	X
MW-225 B	Quarterly	X	X
MW-229 A	Quarterly	X	X
MW-229 B	Quarterly	X	X
MW-230 A	Quarterly	X	X
MW-231A	Quarterly	X	X
MW-231B	Quarterly	X	X
MW-303	Quarterly	X	X

(a) Determination of field parameters in accordance with EPA/600/4-79/020 using the following methods: pH (Method 150.1), temperature (Method 170.1), specific conductance (Method 180.1), and dissolved oxygen (Method 360.1). Includes water level measurement.

NOTE: TAL = Target Analyte List; TCL VOC = Target Compound List Volatile Organic Compounds (EPA SW-846).

Sample Type/ Location	Monitoring Frequency	Sample Parameters	
		TCL VOC	Field Parameters[a]
EP-Series Piezometers			
EP-1	Quarterly		X[b]
EP-2	Quarterly		X[b]
EP-3	Quarterly		X[b]
EP-4	Quarterly		X[b]
EP-5	Quarterly		X[b]
EP-6	Quarterly		X[b]
EP-7	Quarterly		X[b]
EP-8	Quarterly		X[b]
EP-9	Quarterly		X[b]
EP-10	Quarterly		X[b]
EP-11	Quarterly		X[b]
EP-12	Quarterly		X[b]
EP-13	Quarterly		X[b]
EP-14	Quarterly		X[b]
EP-15	Quarterly		X[b]

Sample Type/ Location	Monitoring Frequency	Sample Parameters	
		TCL VOC	Field Parameters[a]
MW-305	Quarterly	X	X
MW-306	Quarterly	X	X
MW-307	Quarterly	X	X
MW-308	Quarterly	X	X
MW-309 A	Quarterly	X	X
MW-309 B	Quarterly	X	X
MW-310	Quarterly	X	X
MW-311	Quarterly	X	X
MW-313	Quarterly	X	X
MW-318	Quarterly	X	X
MW-319	Quarterly	X	X
MW-1104	Quarterly	X	X
P-Series Piezometers			
P-103	Quarterly		X[b]
P-104	Quarterly	X	X
P-105	Quarterly	X	X
P-106	Quarterly	X	X
P-107	Quarterly	X	X
P-110	Quarterly		X[b]
P-111	Quarterly	X	X
P-112	Quarterly	X	X
P-124	Quarterly		X[b]
P-132	Quarterly	X	X
Extraction Wells			
EW-1	Quarterly		X[b]
EW-2	Quarterly		X[b]
EW-3	Quarterly		X[b]
EW-4	Quarterly		X[b]
EW-5	Quarterly		X[b]

(b) Indicates water level measurement only.

TABLE 3 MONITORING WELL GAUGING SUMMARY SITES 1 AND 3, NAVAL AIR STATION, BRUNSWICK, MAINE

Well Designation	Well Riser Elevation (ft MSL)	Gauging Data (17-18 March 1995)		
		Depth to Well Bottom (ft below Datum)	Depth to Water (ft below Datum)	Water Table Elevation (ft MSL)
Monitoring Wells				
MW-201	59.74	32.47	12.68	47.06
MW-202 A	52.51	31.09	15.93	36.58
MW-202 B	53.20	17.93	16.44	36.76
MW-203	52.75	42.04	30.13	22.62
MW-204	50.50	37.18	29.09	21.41
MW-210 A	38.89	Well obstructed due to construction activities		
MW-210 B	37.60	26.40	6.88	30.72
MW-211 A	61.01	137.02	19.15	41.86
MW-211 B	60.76	30.97	12.24	48.52
MW-215	61.11	Pipe blocked, unable to open well		
MW-216 A	53.71	30.65	10.63	43.08
MW-216 B	54.70	22.54	14.17	40.53
MW-217 A	56.04	40.93	14.24	41.80
MW-217 B	56.45	27.20	13.58	42.87
MW-218	54.16	53.54	32.92	21.24
MW-219	51.87	71.82	28.71	23.16
MW-220	39.46	39.01	8.94	30.52
MW-223	53.71	42.61	21.20	32.51
MW-232 A	55.65	38.93	11.56	44.09
MW-234	55.78	23.44	8.92	46.86
Extraction Wells				
EW-6	No Data	39.05	20.14	
EW-7	No Data	50.55	12.85	
EP-Series Piezometers				
EP-16	Piezometer obstructed due to construction activities			

NOTE: MSL = Mean sea level.

TABLE 4 MONITORING WELL GAUGING SUMMARY EASTERN PLUME, NAVAL AIR STATION, BRUNSWICK, MAINE

Well Designation	Well Riser Elevation (ft MSL)	Gauging Data (17-18 March 1995)		
		Depth to Well Bottom (ft below Datum)	Depth to Water (ft below Datum)	Water Table Elevation (ft MSL)
Monitoring Wells				
MW-105 A	24.19	46.87	0.25	23.94
MW-105 B	24.55	22.91	6.82	17.73
MW-106	51.26	37.27	19.14	32.12
MW-205	45.99	78.77	21.27	24.72
MW-206 A	43.02	74.36	15.21	27.81
MW-206 B	42.77	27.17	16.40	26.37
MW-207 A	24.06	73.22	Artesian	>24.06
MW-207 B	22.90	9.01	5.03	17.87
MW-208	49.40	103.33	16.98	32.42
MW-209	54.84	32.38	22.02	32.82
MW-222	57.43	45.34	23.95	33.48
MW-223	53.71	42.61	21.20	32.51
MW-224	57.63	46.95	23.45	34.18
MW-225 A	45.95	76.03	15.16	30.79
MW-225 B	46.25	42.00	16.83	29.42
MW-229 A	33.83	64.97	13.50	20.33
MW-229 B	30.08	32.70	14.86	15.22
MW-230 A	36.32	82.08	13.51	22.81
MW-231 A	45.41	62.42	20.40 [a]	25.01
MW-231 B	46.31	57.86	24.37 [a]	21.94
MW-303	44.28	71.62	12.15	32.13
MW-305	43.09	54.12	7.71	35.38
MW-306	52.12	56.98	16.45	35.67
MW-307	62.70	22.21	16.15	46.55

(a) Wells gauged on 30 March 1995.

NOTE: MSL = Mean sea level.

Well Designation	Well Riser Elevation (ft MSL)	Gauging Data (17-18 March 1995)		
		Depth to Well Bottom (ft below Datum)	Depth to Water (ft below Datum)	Water Table Elevation (ft MSL)
MW-308	37.70	72.85	3.82 [b]	33.88
MW-309 A	22.84	72.71	Artesian	>22.84
MW-309 B	22.32	59.43	Artesian	>22.32
MW-310	53.39	72.83	24.06	29.33
MW-311	21.48	No Data	3.84 [c]	17.64
MW-313	21.39	37.14	6.98	14.41
MW-318	24.28	25.14	4.53	19.75
MW-319	40.16	72.44	8.84	31.32
MW-1104	60.09	27.55	12.12 [b]	47.97
P-Series Piezometers				
P-103	60.35	29.05	25.13	35.22
P-104	44.00	No Data	2.82 [d]	No Data
P-105	42.08	70.35	8.49	33.59
P-106	38.83	71.06	7.93	30.90
P-107	46.33	No Data	3.15 [d]	No Data
P-110	56.70	24.14	22.72	33.98
P-111	31.48	No Data	3.22 [e]	28.26 [e]
P-112	41.12	16.41	11.01	30.11
P-124	51.12	23.25	21.01	30.11
P-132	42.95	32.46	17.84	25.11

(b) Well gauged on 29 March 1995.
(c) PVC casing blocked at depth, unable to measure depth to bottom.
(d) Measurement listed is depth to obstruction.
(e) Measurement listed is depth to frozen water. Water table elevation based on depth to frozen water within well riser; elevation considered approximate.

Well Designation	Well Riser Elevation (ft MSL)	Gauging Data (17-18 March 1995)		
		Depth to Well Bottom (ft below Datum)	Depth to Water (ft below Datum)	Water Table Elevation (ft MSL)
Extraction Wells				
EW-1	No Data	99.66	0.67	---
EW-2	No Data	90.86	0.15	---
EW-3	No Data	67.04	8.67	---
EW-4	No Data	69.37	0.92	---
EW-5	No Data	84.99	4.01	---
EP-Series Piezometers				
EP-1	No Data	100.51	6.15	
EP-2	No Data	No Data	4.66 (d)	---
EP-3	No Data	No Data	2.78 (d)	---
EP-4	No Data	91.11	2.57	---
EP-5	No Data	79.85	3.45	---
EP-6	No Data	83.51	9.47	---
EP-7	No Data	70.20	15.92	---
EP-8	No Data	No Data	15.65 (f)	---
EP-9	No Data	No Data	3.38 (d)	---
EP-10	No Data	No Data	2.00 (d)	---
EP-11	No Data	65.03	6.50	---
EP-12	No Data	69.61	15.34	---
EP-13	No Data	71.03	4.18	---
EP-14	No Data	80.05	9.04	---
EP-15	No Data	82.68	11.08	---

(f) Gauged 5 April 1995 due to difficulty in removing cap from piezometer.

NOTE: Dashes (---) indicate data cannot be calculated because survey data are not available.

TABLE 5 SUMMARY OF WATER QUALITY INDICATOR PARAMETERS MEASURED IN GROUND-WATER SAMPLES COLLECTED AT SITES 1 AND 3, NAVAL AIR STATION, BRUNSWICK, MAINE

Well Designation	pH	Temperature (°C)	Conductivity (µmhos/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
Monitoring Wells					
MW-202 A	6.49	10.0	348	2.5	6.4
MW-202 B	6.94	6.9	342	3.2	258
MW-203	6.23	13.0	202	3.2	2.23
MW-204	6.60	9.0	39	7.10	0.62
MW-210 A	Well not located				
MW-210 B	6.21	8.1	183	2.1	10.0
MW-215	Well not sampled due to bent casing				
MW-216 A	Well not sampled due to PVC casing depth below steel casing (2 ft)				
MW-216 B	6.32	13.5	600	3.31	9
MW-217 A	6.73	11.1	305	2.9	9.06
MW-217 B	6.38	11.6	860	2.18	28
MW-218	8.08	13.5	1,020	4.25	10
MW-219	6.39	10	122	7.8	2
MW-220	6.67	10.0	143	3.5	6.27
MW-232 A	6.43	11.7	250	3.38	3
MW-234	No data, steel casing bent, pump will not fit in well				

NOTE: NTU = Nephelometric turbidity unit.

TABLE 6 SUMMARY OF WATER QUALITY INDICATOR PARAMETERS MEASURED IN SURFACE WATER AND SEEP SAMPLES COLLECTED AT SITES 1 AND 3, NAVAL AIR STATION, BRUNSWICK, MAINE

Sample Designation	pH	Temperature (°C)	Conductivity (µmhos/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
Surface Water					
SW- 01	7.18	5	80	7.0	9.70
SW-02	6.82	6	91	3.4	NA
SW-03	7.11	5.9	91	7.9	NA
SW-04	6.85	5.5	65	7.2	9.19
SW-05	7.16	8	71	8.4	8.38
SW-06	6.73	8.5	72	8.6	16.7
SW-07	6.91	8.5	78	9.0	16.4
Seeps					
SP-01	7.44	7	70	5.7	NA
SP-02	6.82	6	91	3.4	6.88
SP-03	6.34	9.5	320	1.5	NA
SP-04	6.32	7.9	152	1.8	NA
SP-05	6.76	16	450	3.6	NA

NOTE: NA = Not available; measurement exceeded range of instrument (i.e., >1,000 NTU); NTU = Nephelometric turbidity unit.

TABLE 7 SUMMARY OF WATER QUALITY INDICATOR PARAMETERS MEASURED IN GROUND-WATER SAMPLES COLLECTED AT EASTERN PLUME, NAVAL AIR STATION, BRUNSWICK, MAINE

Well Designation	pH	Temperature (°C)	Conductivity (µmhos/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
Monitoring Wells					
MW-105 A	Well not sampled due to bent PVC casing				
MW-105 B	6.70	6	21	8.4	0.82
MW-106	6.70	8.8	62	6.3	1.01
MW-205	8.68	6.3	120	2.5	8.73
MW-206 A	7.48	8	76	6.5	2.94
MW-206 B	6.20	8.8	51	8.7	0.68
MW-207 A	7.47	10.2	131	1.8	9.98
MW-207 B	7.20	10.0	48	6.0	4.56
MW-208	8.68	7.1	99	3.2	21.9
MW-209	6.53	6.0	48	8.5	5.58
MW-222	7.51	10.5	50	6.6	1.17
MW-223	6.02	7.8	50	7.45	1.38
MW-224	5.61	8.2	99	5.9	0.82
MW-225 A	7.26	7.9	102	2.7	3.67
MW-225 B	7.02	8.5	31	6.7	0.81
MW-229 A	7.14	9.8	77	6.45	0.84
MW-229 B	Well not sampled due to depth of PVC casing below steel casing (33 in.)				
MW-230 A	11.15	6.9	70	2.6	8.25
MW-231 A	6.96	8.9	38	7.6	24.2
MW-231 B	6.80	9.1	55	8.2	32.5
MW-303	8.97	9	130	1.30	2.03
MW-305	9.00	8	120	2.0	167
MW-306	6.40	12	65	5.1	6.24

NOTE: NTU = Nephelometric turbidity unit.

Well Designation	pH	Temperature (°C)	Conductivity (µmhos/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
MW-307	6.95	13.8	130	5.6	13.6
MW-308	8.96	8.3	421	2.60	45
MW-309 A	8.83	8.6	384	1.32	2
MW-309 B	8.84	7.5	296	1.88	16
MW-310	6.95	7.4	64	6.9	0.72
MW-311	Well not sampled due to depth of threaded PVC cap within steel riser				
MW-313	7.97	8.1	163	3.9	30
MW-318	6.70	11.5	39	5.0	4.42
MW-319	6.29	10.2	86	3.6	0.92
MW-1104	6.01	8.2	66	2.36	7
P-Series Piezometers					
P-104	Well not sampled due to blockage at depth				
P-105	7.03	8.2	125	4.28	>1,000
P-106	7.11	7.7	128	5.13	>1,000
P-107	Well not sampled due to blockage at depth				
P-111	6.57	4.3	101	5.32	>1,000
P-112	Insufficient water column available to draw water into peristaltic pump				
P-132	7.63	6.5	59	6.5	502

TABLE 8 SUMMARY OF ANALYTICAL RESULTS FOR GROUND-WATER SAMPLES COLLECTED 28 MARCH 1995 AT SITES 1 AND 3, NAVAL AIR STATION, BRUNSWICK, MAINE

Compound	CRQL[a]	MW-202A	MW-202B	MW-203	MW-204	MW-210B	MW-216B	MW-217A	MW-217B	MW-218	MEG[b]	MCL[c]
VOLATILE ORGANIC COMPOUNDS BY EPA METHOD 8260 (µg/L)/(µg/L)												
1,1-Dichloroethane	2.0	8	15	2	(<2U)	(<2U)	(<20U)	(<2U)	(<2U)	4	5	5
Total 1,2-dichloroethene	2.0	3	(<2U)	(<2U)	(<2U)	2	520	(<2U)	(<2U)	(<2U)	70	70
Acetone	5.0	18	990B	3J	1J	(<5U)	200	3J	(<5U)	27	---	---
Benzene	2.0	1J	(<2U)	(<2U)	(<2U)	(<2U)	(<20U)	(<2U)	(<2U)	(<2U)	5	5
Chlorobenzene	5.0	24	8	(<5U)	(<5U)	3J	(<50U)	(<5U)	(<5U)	(<5U)	---	---
Ethylbenzene	2.0	430	330	(<2U)	(<2U)	4	49	(<2U)	(<2U)	(<2U)	700	700
Methylene chloride	3.0	3B	2JB	2JB	(<3U)	(<3U)	11JB	2JB	(<3U)	(<3U)	---	---
Toluene	2.0	91	(<2U)	(<2U)	(<2U)	1J	1,300	(<2U)	(<2U)	(<2U)	1,400	1,000
Vinyl chloride	2.0	10	(<2U)	(<2U)	(<2U)	18	290	(<2U)	(<2U)	(<2U)	0.15	2.0
Total Xylenes	2.0	1,300	230	1J	(<2U)	4	270	3	(<2U)	(<2U)	600	10,000
4-methyl 2-pentanone	3.0	(<3U)	(<3U)	1J	(<3U)	(<3U)	(<30U)	(<3U)	(<3U)	(<3U)	---	---
Chloroethane	2.0	(<2U)	2	2	(<2U)	(<2U)	(<20U)	(<2U)	(<2U)	(<2U)	---	---
Trichloroethene	2.5	(<2.5U)	(<2.5U)	(<2.5U)	1J	(<2.5U)	(<25U)	(<2.5U)	2J	(<2.5U)	5	5
1,1,1-Trichloroethane	2.0	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	200	200

(a) CRQL is representative of Practical Quantitation Level.
(b) Maximum Exposure Guideline (MEG) obtained from State of Maine Department of Human Services Revised Maximum Exposure Guidelines, 23 October 1992.
(c) Maximum Contamination Level (MCL) obtained from 40 CFR Parts 141 and 142 (U.S. EPA 1992).

NOTE: Only those analytes detected in at least one of the samples, and the contaminants of concern listed in the LTMP (ABB-ES 1994), are shown on this table. Samples not analyzed for Target Analyte List elements.
U = Not detected. Sample quantitation limits are shown as (<____U).
J = Estimated concentration below detection limit.
B = Compound detected in associated method blank.
CRQL = Contract Required Quantification Limit.

Compound	CRQL[a]	MW-219	MW-219 Duplicate	MW-220	MW-232A	TB-004	TB-006	EQ-001	MEG[b]	MCL[c]
VOLATILE ORGANIC COMPOUNDS BY EPA METHOD 8260 (µg/L) (Continued)										
1,1-Dichloroethane	2.0	(<2U)	(<2U)	(<2U)	(<2U)	2	(<2U)	(<2U)	5	5
Total 1,2-Dichloroethene	2.0	(<2U)	(<2U)	(<2U)	(<2U)	8	(<2U)	(<2U)	70	70
Acetone	5.0	(<5U)	(<5U)	(<5U)	(<5U)	2J	(<5U)	(<5U)	---	---
Benzene	2.0	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	5	5
Chlorobenzene	5.0	(<5U)	(<5U)	(<5U)	(<5U)	(<5U)	(<5U)	(<5U)	---	---
Ethylbenzene	2.0	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	700	700
Methylene chloride	3.0	(<3U)	(<3U)	1JB	(<3U)	4B	3B	3B	---	---
Toluene	2.0	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	1,400	1,000
Vinyl chloride	2.0	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	0.15	2
Total Xylenes	2.0	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	600	10,000
4-methyl 2-pentanone	3.0	(<3U)	(<3U)	(<3U)	(<3U)	(<3U)	(<3U)	(<3U)	---	---
Chloroethane	2.0	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	---	---
Trichloroethene	2.5	(<2.5U)	(<2.5U)	(<2.5U)	(<2.5U)	2J	(<2.5U)	(<2.5U)	5	5
1,1,1-Trichloroethane	2.0	(<2U)	(<2U)	(<2U)	(<2U)	11	(<2U)	(<2U)	200	200

NOTE: EQ = Pump equipment blank
TB = Trip blank.

TABLE 9 SUMMARY OF ANALYTICAL RESULTS FOR GROUND-WATER SAMPLES COLLECTED 21-30 MARCH 1995 AT EASTERN PLUME, NAVAL AIR STATION, BRUNSWICK, MAINE

Compound	CRQL[a]	MW-105B	MW-106	MW-205	MW-206A	MW-206B	MW-207A	MW-207B	MW-208	MW-209	MW-222	MW-223	MW-223	MEG[b]	MCL[c]
VOLATILE ORGANIC COMPOUNDS BY EPA METHOD 8260 (µg/L)															
1,1,2,2-Tetrachloroethane	5.0	1J	(<5U)	(<5U)	(<5U)	(<5U)	(<5U)	(<5U)	(<5U)	1JB	(<5U)	(<5U)	(<5U)	---	---
1,1,1-Trichloroethane	2.0	(<2U)	1J	220	77	(<2U)	2	(<2U)	11	(<2U)	(<2U)	(<2U)	(<2U)	200	200
Total 1,2-Dichloroethene	2.0	(<2U)	23	40	5	(<2U)	(<2U)	(<2U)	3	(<2U)	(<2U)	(<2U)	(<2U)	70	70
Methylene chloride	3.0	1JB	4B	3B	2JB	2JB	1JB	1JB	(<3U)	2JB	4B	1JB	1JB	---	---
Trichloroethene	2.5	(<2.5U)	12	160	25	(<2.5U)	11	(<2.5U)	13	(<2.5U)	(<2.5U)	2J	3	5	5
Tetrachloroethene	2.0	(<2U)	13	24	6	(<2U)	10	(<2U)	3	(<2U)	1J	1J	1J	3	5
1,1-Dichloroethene	1.0	(<1U)	(<1U)	13	4	(<1U)	(<1U)	(<1U)	1	(<1U)	(<1U)	(<1U)	(<1U)	7	7
1,1-Dichloroethane	2.0	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	5	5
Acetone	5.0	1JB	(<5U)	42B	(<5U)	(<5U)	(<5U)	200	(<5U)	(<5U)	(<5U)	7B	8B	---	---
Chloroethane	2.0	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	7	(<2U)	(<2U)	(<2U)	---	---
Carbon disulfide	5.0	(<5U)	(<5U)	(<5U)	(<5U)	(<5U)	2J	(<5U)	170	(<5U)	(<5U)	(<5U)	(<5U)	---	---
Total xylenes	2.0	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	600	10,000
1,1,2-Trichloroethane	5.0	(<5U)	(<5U)	(<5U)	(<5U)	(<5U)	(<5U)	(<5U)	(<5U)	(<5U)	(<5U)	(<5U)	(<5U)	3	5[d]
1,2-Dichloroethane	2.0	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	5	5
Benzene	2.0	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	5	5

(a) CRQL is representative of Practical Quantitation Level.
(b) Maximum Exposure Guideline (MEG) obtained from State of Maine Department of Human Services Revised Maximum Exposure Guidelines, 23 October 1992.
(c) Maximum Contaminant Level (MCL) obtained from 40 CFR Parts 141 and 142 (U.S. EPA 1992).
(d) Proposed MCL as of 23 October 1992.

NOTE: Only those analytes detected in at least one of the samples, and the contaminants of concern listed in the LTMP (ABB-ES 1994), are shown on this table.
U = Not detected. Sample quantitation limits are shown as (<____U).
J = Estimated concentration below detection limit.
B = Compound detected in associated method blank.
CRQL = Contract Required Quantification Limit.

Compound	CRQL[a]	MW-224	MW-225A	MW-225B	MW-225B DUP	MW-229A	MW-230A	MW-231A	MW-231B	MW-303	MW-305	MW-305 DUP	MEG[b]	MCL[c]
VOLATILE ORGANIC COMPOUNDS BY EPA METHOD 8260 (µg/L)														
1,1,2,2-Tetrachloroethane	5.0	(<5U)	(<5U)	(<5U)	(<5U)	(<5U)	(<5U)	(<5U)	1JB	1J	(<5U)	(<5U)	---	---
1,1,1-Trichloroethane	2.0	1J	32	(<2U)	(<2U)	98	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	200	200
Total 1,2-Dichloroethene	2.0	9	56	15	(<2U)	10	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	70	70
Methylene chloride	3.0	(<3U)	2JB	2JB	(<3U)	3B	4B	1JB	1JB	(<3U)	1J	4B	---	---
Trichloroethene	2.5	8	57	8	(<2.5U)	61	(<2.5U)	(<2.5U)	(<2.5U)	(<2.5U)	(<2.5U)	(<2.5U)	5	5
Tetrachloroethene	2.0	3	18	3	(<2U)	8	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	3	5
1,1-Dichloroethene	1.0	(<1U)	2	(<1U)	(<1U)	5	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	7	7
1,1-Dichloroethane	2.0	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	5	5
Acetone	5.0	(<5U)	(<5U)	(<5U)	(<5U)	(<5U)	(<5U)	(<5U)	2JB	(<5U)	(<5U)	(<5U)	---	---
Chloroethane	2.0	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	---	---
Carbon disulfide	5.0	(<5U)	(<5U)	(<5U)	(<5U)	(<5U)	(<5U)	(<5U)	(<5U)	(<5U)	(<5U)	(<5U)	---	---
Total xylenes	2.0	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	600	10,000
1,1,2-Trichloroethane	5.0	(<5U)	(<5U)	(<5U)	(<5U)	(<5U)	(<5U)	(<5U)	(<5U)	(<5U)	(<5U)	(<5U)	3	5[d]
1,2-Dichloroethane	2.0	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	5	5
Benzene	2.0	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	5	5

Compound	CRQL[a]	MW-306	MW-307	MW-308	MW-309A	MW-309B	MW-310	MW-313	MW-318	MW-319	MW-1104	MEG[b]	MCL[c]
VOLATILE ORGANIC COMPOUNDS BY EPA METHOD 8260 (µg/L)													
1,1,2,2-Tetrachloroethane	5.0	(<5U)	(<5U)	(<5U)	(<5U)	(<5U)	(<5U)	(<5U)	(<5U)	(<5U)	(<5U)	---	---
1,1,1-Trichloroethane	2.0	670	(<2U)	(<2U)	(<2U)	(<2U)	5	(<2U)	(<2U)	3	350	200	200
Total 1,2-Dichloroethene	2.0	58	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	260	70	70
Methylene chloride	3.0	4B	4B	(<3U)	(<3U)	(<3U)	2JB	1JB	(<3U)	3B	(<3U)	---	---
Trichloroethene	2.5	380	(<2.5U)	(<2.5U)	(<2.5U)	(<2.5U)	1J	(<2.5U)	(<2.5U)	6	52	5	5
Tetrachloroethene	2.0	2	(<2U)	(<2U)	(<2U)	(<2U)	2	(<2U)	(<2U)	16	2	3	5
1,1-Dichloroethene	1.0	25	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	4	7	7
1,1-Dichloroethane	2.0	48	(<2U)	1J	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	46	5	5
Acetone	5.0	(<5U)	3JB	(<5U)	1J	18	(<5U)	(<5U)	9	(<5U)	(<5U)	---	---
Chloroethane	2.0	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	---	---
Carbon disulfide	5.0	(<5U)	(<5U)	(<5U)	(<5U)	(<5U)	(<5U)	(<5U)	(<5U)	(<5U)	(<5U)	---	---
Total xylenes	2.0	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	1J	(<2U)	(<2U)	(<2U)	600	10,000
1,1,2-Trichloroethane	5.0	(<5U)	(<5U)	(<5U)	(<5U)	(<5U)	(<5U)	(<5U)	(<5U)	(<5U)	(<5U)	3	5[d]
1,2-Dichloroethane	2.0	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	5	5
Benzene	2.0	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	5	5

Compound	CRQL[a]	P-105	P-106	P-111	P-132	TB-002	TB-003	TB-004	TB-005	TB-006	EQ-001	MEG[b]	MCL[c]
VOLATILE ORGANIC COMPOUNDS BY EPA METHOD 8260 (µg/L)													
1,1,2,2-Tetrachloroethane	5.0	(<5U)	(<5U)	(<5U)	(<5U)	1J	(<5U)	(<5U)	(<5U)	(<5U)	(<5U)	---	---
1,1,1-Trichloroethane	2.0	3,300	840	(<2U)	(<2U)	(<2U)	(<2U)	11	(<2U)	(<2U)	(<2U)	200	200
Total 1,2-Dichloroethene	2.0	14	4	(<2U)	(<2U)	(<2U)	(<2U)	8	(<2U)	(<2U)	(<2U)	70	70
Methylene chloride	3.0	2JB	1JB	1JB	2JB	6	5B	4B	2JB	3B	3B	---	---
Trichloroethene	2.5	460	170	(<2.5U)	(<2.5U)	(<2.5U)	(<2.5U)	2J	(<2.5U)	(<2.5U)	(<2.5U)	5	5
Tetrachloroethene	2.0	8	4	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	3	5
1,1-Dichloroethene	1.0	300	92	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	7	7
1,1-Dichloroethane	2.0	53	24	(<2U)	(<2U)	(<2U)	(<2U)	2	(<2U)	(<2U)	(<2U)	5	5
Acetone	5.0	32B	350	170	35	(<5U)	(<5U)	2J	(<5U)	(<5U)	(<5U)	---	---
Chloroethane	2.0	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	---	---
Carbon disulfide	5.0	(<5U)	(<5U)	(<5U)	(<5U)	(<5U)	(<5U)	(<5U)	(<5U)	(<5U)	(<5U)	---	---
Total xylenes	2.0	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	600	10,000
1,1,2-Trichloroethane	5.0	5	2J	(<5U)	(<5U)	(<5U)	(<5U)	(<5U)	(<5U)	(<5U)	(<5U)	3	5[d]
1,2-Dichloroethane	2.0	12	6	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	5	5
Benzene	**2.0**	**2**	**(<2U)**	**(<2U)**	**(<2U)**	**(<2U)**	**(<2U)**	**(<2U)**	**(<2U)**	**(<2U)**	**(<2U)**	**5**	**5**

NOTE: EQ = Pump equipment blank.
TB = Trip blank.

TABLE 10 SUMMARY OF ANALYTICAL RESULTS FOR SURFACE WATER SAMPLES COLLECTED 19-20 MARCH 1995 AT SITES 1 AND 3, NAVAL AIR STATION, BRUNSWICK, MAINE

Analyte	CRQL[a]/CRDL	SW-1	SW-2	SW-3	SW-4	SW-5	SW-6	SW-7	SW-7 DUP	TB-001	FB-001
VOLATILE ORGANIC COMPOUNDS BY EPA METHOD 8260 (µg/L)											
Acetone	5.0	(<5U)	15B	.(<5U)	2JB	(<5U)	(<5U)	64	(<5U)	(<5U)	(<5U)
Methylene chloride	3.0	5B	4B	(<3U)	2JB	5B	4B	2JB	3B	4B	6B
1,1,2,2-Tetrachloroethane	5.0	(<5U)	(<5U)	2J	1J	(<5U)	(<5U)	2J	(<5U)	(<5U)	(<5U)
2-Hexanone	2.0	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	3J	(<2U)	(<2U)	(<2U)
TARGET ANALYTE LIST ELEMENTS BY SW 846 (µg/L)											
Aluminum	200.0	63.5B*	(<15.4U)	(<15.4U)	353	320	401	218	184B*	NR	(<15.4U)
Barium	200.0	17.6B*	14.5B*	13.0B*	17.3B*	15.1B*	16.8B*	16.3B*	15.1B*	NR	(<0.80U)
Calcium	5,000.0	10,300	12,500	11,200	6,150	6,120	6,510	6,750	5,940	NR	(<7.3U)
Chromium	10.0	(<2.0U)	(<2.0U)	(<2.0U)	2.4B*	(<0.20U)	(<2.0U)	(<2.0U)	2.0B*	NR	(<2.0U)
Cobalt	50.0	(<2.4U)	(<2.4U)	2.9B*	2.5B*	(<0.24U)	(<2.4U)	2.9B*	(<2.4U)	NR	(<2.4U)
Copper	25.0	(<5.6U)	(<5.6U)	(<5.6U)	(<5.6U)	(<5.6U)	(<5.6U)	13.5B*	(<5.6U)	NR	(<5.6U)
Iron	100.0	2,310	3,750	1,870	771	758	701	707	652	NR	(<11.0U)
Lead	3.0	(<1.3U)	(<1.3U)	(<1.3U)	(<1.3U)	2.0B*	(<1.3U)	(<1.3U)	(<1.3U)	NR	(<1.3U)
Magnesium	5,000.0	1,020B*	1,970B*	1,880B*	1,490B*	1,590B*	1,590B*	1,600B*	1,420B*	NR	(<22.8U)
Manganese	15.0	201	394	411	153	154	160	181	161	NR	(<0.50U)
Mercury	0.2	(<0.10U)	(<0.10U)	(<0.10U)	0.14B*	(<0.10U)	(<0.10U)	(<0.10U)	(<0.10U)	NR	0.24
Potassium	5,000.0	1,830B*	1,960B*	2,420B*	1,660B*	1,640B*	1,490B*	1,690B*	1,240B*	NR	(<500U)
Selenium	5.0	(<1.3U)	(<1.3U)	(<1.3U)	(<1.3U)	(<1.3U)	1.6B*	(<1.3U)	1.5B*	NR	(<1.3U)
Silver	10.0	(<1.9U)	(<1.9U)	2.4B*	(<1.9U)	(<1.9U)	(<1.9U)	(<1.9U)	(<1.9U)	NR	(<1.9U)
Sodium	5,000.0	11,300	14,300	12,500	10,400	10,100	11,000	10,900	9,690	NR	24.1B*
Vanadium	50.0	(<2.5U)	(<2.5U)	2.7B*	(<2.5U)	(<2.5U)	3.2B*	3.2B*	2.8B*	NR	(<2.5U)
Zinc	20.0	160	35.0	12.3B*	18.5B*	12.4B*	13.6B*	12.6B*	11.5B*	NR	7.9B*
Cyanide	10.0	(<0.75U)	(<0.75U)	(<0.75U)	(<0.75U)	(<0.75U)	(<0.75U)	2.7B*	(<0.75U)	NR	(<0.75U)

(a) CRQL is representative of Practical Quantitation Level.

NOTE: Only those analytes detected in at least one of the samples, and contaminants of concern listed in the LTMP (ABB-ES 1994), are shown on this table.
- U = Not detected. Sample quantitation limits are shown as (<____U).
- B = Compound detected in associated method blank.
- J = Estimated concentration below detection limit.
- B* = Analyte concentration is between the instrument detection limit and the Contract Required Detection Limit.
- TB = Trip blank.
- FB = Source water blank.
- CRQL = Contract Required Quantification Limit for volatile organic compounds.
- CRDL = Contract Required Detection Limit for Target Analyte List elements.

TABLE 11 SUMMARY OF ANALYTICAL RESULTS FOR SEDIMENT SAMPLES COLLECTED 19-20 MARCH 1995 AT SITES 1 AND 3, NAVAL AIR STATION, BRUNSWICK, MAINE

Analyte	CRQL[a]/ CRDL	SED-1	SED-2	SED -3	SED-4	SED-5	SED-6	SED-7	SED-7 DUP	RB-001 (µg/L)
VOLATILE ORGANIC COMPOUNDS BY EPA METHOD 8260 (µg/kg)										
Acetone	5.0	30,000	3,400	7,100	2,800	3,600	3,100	20	25B	26B
Methylene chloride	3.0	320JB	600JB	10B	410JB	440JB	5B	2JB	4JB	7B
Chloroethane	2.0	(<370U	(<460U)	(<3.6U)	(<420U)	(<330U)	2J	(<3U)	(<3U)	(<2U)
Ethylbenzene	2.0	(<370	(<460U)	(<3.6U)	(<420U)	(<330U)	2J	(<3U)	(<3U)	(<2U)
Total Xylenes	2.0	(<370	(<460U)	(<3.6U)	(<420U)	(<330U)	1J	(<3U)	(<3U)	(<2U)
2-Butanone	5.0	(<920	(<1,200U)	34	(<1,100U)	(<840U)	(<7U)	3J	(<7.5U)	(<5U)
1,1,2,2-Tetrachloroethane	5.0	(<920U	(<1,200U)	(<9U)	(<1,100U)	(<840U)	(<7U)	(<7.5U)	(<7.5U)	(<5U)
TARGET ANALYTE LIST ELEMENTS BY EPA METHOD SW 846 (mg/kg)										
Aluminum	200.0	4,850	3,950	4,130	4,970	3,880	3,730	4,880	4,690	77.6B*
Arsenic	10.0	4.0	6.5	4.7	5.2	2.7	11.7	5.8	5.9	(<1.6U)
Barium	200.0	23.8	28.2B*	45.5	40.6	61.1	31.5	40.7	42.5	(<0.80U)
Beryllium	5.0	0.27B*	0.19B*	0.15B*	0.39B*	0.94	0.27B*	0.36B*	0.35B*	(<0.20U)
Cadium	5.0	0.21B*	0.31B*	0.38B*	0.42B*	(<0.16U)	0.43B*	0.30B*	0.33B*	(<1.4U)

(a) CRQL is representative of Practical Quantitation Level.

NOTE: Only those analytes detected in at least one of the samples, and contaminants of concern listed in the LTMP (ABB-ES 1994), are shown on this table.
U = Not detected. Sample quantitation limits are shown as (<____U).
B = Compound detected in associated method blank.
J = Estimated concentration below detection limit.
B* = Analyte concentration is between the instrument detection limit and the Contract Required Detection Limit.
NR = Analysis not required.
RB = Equipment rinsate blank.
CRQL = Contract Required Quantification Limit for volatile organic compounds.
CRDL = Contract Required Detection Limit for Target Analyte List elements (µg/L).

Analyte	CRQL[a]/ CRDL	SED-1	SED-2	SED -3	SED-4	SED-5	SED-6	SED-7	SED-7 DUP	RB-001 (µg/L)
Calcium	5,000.0	752	1,190	1,400	1,070	750	761	1,170	1,080	36.6B*
Chromium	10.0	9.2	6.9	4.5	12.7	16.7	7.4	10.3	9.6	(<2.0U)
Cobalt	50.0	6.5	3.3B*	3.1B*	5.3B*	3.9B*	3.6B*	5.2B*	5.5B*	(<2.4U)
Copper	25.0	9.3	5.2	2.4B*	6.9	5.1	4.7	6.9	6.6	(<5.6U)
Iron	100.0	8,240	52,700	69,300	23,700	9,910	13,300	17,500	18,000	15.3B*
Lead	3.0	22.3	7.6	5.9	17.6	9.2	7.9	22.1	22.2	(<1.3U)
Magnesium	5,000.0	1,810	1,360	933	1,690	1,500	1,450	1,840	1,830	(<22.8U)
Manganese	5,000.0	114	310	864	618	185	186	467	536	1.4B*
Mercury	0.2	0.17	0.17	0.09	(<0.03U)	(<0.04U)	(<0.02U)	(<0.04U)	(<0.04U)	0.13B*
Nickel	40.0	7.4	4.9B*	3.9B*	8.9	6.9	6.2	8.2	8.7	(<5.5U)
Potassium	5,000.0	1,020	644B*	406B*	790	752	708	926	937	(<500U)
Selenium	5.0	(<0.17U	0.25B*	0.24B*	0.26B*	(<0.16U)	0.15B*	0.30B*	0.22B*	(<1.3U)
Silver	10.0	(<0.20U	(<0.30U)	0.38B*	(<0.28U)	(<0.22U)	(<0.22U)	(<0.24U)	(<0.25U)	(<1.9U)
Sodium	5,000.0	60.3B*	79.6B*	75.5B*	78.3B*	59.9B*	55.6B*	95.1B*	99.7B*	128B*
Vanadium	50.0	15.3	17.4	14.0	16.7	11.5	11.3	15.3	14.6	3.3B*
Zinc	20.0	43.9	32.3	40.5	49.9	33.0	33.2	49.9	48.1	14.5B*

TABLE 12 SUMMARY OF ANALYTICAL RESULTS FOR SEEP SAMPLES COLLECTED 19-20 MARCH 1995 AT SITES 1 AND 3 NAVAL AIR STATION, BRUNSWICK, MAINE

Analyte	CRQL[a]/CRDL	SEEP-1	SEEP-2	SEEP-3	SEEP-4	SEEP-5	TB-001
VOLATILE ORGANIC COMPOUNDS BY EPA METHOD 8260 (µg/L)							
1,1,1-Trichloroethane	2.0	8	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)
1,1,2-Trichloroethane	5.0	2J	(<5U)	(<5U)	(<5U)	(<5U)	(<5U)
1,1-Dichloroethane	2.0	2	3	5	(<2U)	(<2U)	(<2U)
Acetone	5.0	17	36	(<5U)	(<5U)	(<5U)	(<5U)
Trichloroethene	2.5	2J	(<2.5U)	(<2.5U)	(<2.5U)	(<2.5U)	(<2.5U)
Tetrachloroethene	2.0	1J	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)
1,1,2,2-Tetrachloroethane	5.0	87	(<5U)	(<5U)	(<5U)	(<5U)	(<5U)
1,2-Dichloroethane	2.0	(<2U)	(<2U)	3	(<2U)	(<2U)	(<2U)
Benzene	2.0	(<2U)	(<2U)	1J	(<2U)	(<2U)	(<2U)
Chlorobenzene	5.0	(<5U)	(<5U)	7	(<5U)	(<5U)	(<5U)
Ethylbenzene	2.0	(<2U)	(<2U)	5	(<2U)	(<2U)	(<2U)
Methylene chloride	3.0	(<3U)	(<3U)	4B	5B	6B	4B
Total xylenes	2.0	(<2U)	(<2U)	6	(<2U)	(<2U)	(<2U)
Vinyl chloride	2.0	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)
Total 1,1-Dichloroethene	2.0	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)
TARGET ANALYTE LIST ELEMENTS BY EPA METHOD SW 846 (µg/L))							
Aluminum	200.0	(<15.4U)	28.6B*	(<15.4U)	1,380	3,830	NR
Aresnic	10.0	(<1.6U)	(<1.6U)	28.4	29.6	653	NR
Antimony	60.0	(<11.9U)	(<11.9U)	(<11.9U)	(<11.9U)	(<119U)	NR
Barium	200.0	33.7B*	20.2B*	20.8B*	208	210B*	NR
Beryllium	5.0	(<0.20U)	(<0.20U)	(<0.20U)	(<0.20U)	(<2.0U)	NR
Cadmium	5.0	(<1.4U)	(<1.4U)	(<1.4U)	(<1.4U)	(<14.0U)	NR
Calcium	5,000.0	11,000	13,500	40,300	31,500	68,100	NR

(a) CRQL is representative of Practical Quantitation Level.

NOTE: Only those analytes detected in at least one of the samples, and contaminants of concern listed in the LTMP (ABB-ES 1995), are shown on this table.

U = Not detected. Sample quantitation limits are shown as (<____U).
B = Compound detected in associated method blank.
J = Estimated concentration below detection limit.
B* = Analyte concentration is between the instrument detection limit and the Contract Required Detection Limit.
TB = Trip blank.
NE = Analysis not required.
CRQL = Contract Required Quantification Limit for volatile organic compounds.
CRDL = Contract Required Detection Limit for Target Analyte List elements.

Analyte	CRQL[a]/CRDL	SEEP-1	SEEP-2	SEEP-3	SEEP-4	SEEP-5	TB-001
TARGET ANALYTE LIST ELEMENTS BY EPA METHOD SW 846 (µg/L) (Continued)							
Chromium	10.0	(<2.0U)	(<2.0U)	(<2.0U)	(<2.0U)	(<20.0U)	NR
Cobalt	50.0	2.9B*	(<2.0U)	3.6B*	12.6B*	53.0B*	NR
Copper	25.0	(<5.6U)	(<5.6U)	(<5.6U)	(<5.6U)	(<56.0U)	NR
Iron	100.0	22,700	31,000	55,700	209,000	1,080,000	NR
Lead	3.0	(<1.3U)	(<1.3U)	(<1.3U)	6.2	13.8	NR
Magnesium	5,000.0	1,570B*	2,130B*	7,100	2,390B*	17,400	NR
Manganese	15.0	2,430	1,140	3,440	532	5,040	NR
Mercury	0.2	(<0.10U)	0.18B*	(<0.10U)	0.45	0.11B*	NR
Nickel	40.0	(<5.5U)	(<5.5U)	(<5.5U)	5.7B*	(<55.0U)	NR
Potassium	5,000.0	1,910B*	3,360B*	3,580B*	4,470B*	7,450B*	NR
Selenium	5.0	(<1.3U)	(<1.3U)	(<1.3U)	1.4B*	(<1.3U)	NR
Sodium	5,000.0	5,640	5,700	24,500	9,140	18,500B*	NR
Vanadium	50.0	(<2.5U)	3.4B*	4.7B*	30.1B*	113B*	NR
Zinc	20.0	12.3B*	12.7B*	15.9B*	57.2	294	NR
Cyanide	10.0	(<0.75U)	(<0.75U)	(<0.75U)	1.2B*	1.3B*	NR

NOTE: NR = Analysis not required.

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Appendix A

Standard Operating Procedures for Field Sampling

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APPENDIX A

STANDARD OPERATING PROCEDURES FOR FIELD SAMPLING

A.1 STANDARD OPERATING PROCEDURE NO. 1 - GROUND-WATER SAMPLING BY LOW-FLOW PURGE AND SAMPLING METHOD USING DEDICATED PUMPS

A.1.1 Scope of Application

The purpose of this Standard Operating Procedure (SOP) is to establish the protocol for collecting ground-water samples using dedicated pump systems. The procedure is designed to permit the collection of ground-water samples with minimum turbidity, and is intended to be used in conjunction with the analyses for the most common types of ground-water contaminants (volatile organic compounds [VOC] and semivolatile organic compounds [SVOC], pesticides, polychlorinated biphenyls [PCB], metals, and inorganic compounds). This SOP was prepared based on draft guidance prepared by U.S. Environmental Protection Agency (EPA) Region I and conforms with the procedures described in the long-term monitoring plan (LTMP) (ABB-ES 1994).

A.1.2 Equipment/Materials

- LTMP.
- Well construction data, location map, field data from last sampling event.
- Field logbook and Field Record of Well Gauging, Purging, and Sampling forms (Figure A-1).
- Water level measuring device, 0.01 ft accuracy (electronic preferred) for monitoring water level during pumping operations.
- Pumps: adjustable rate, variable displacement submersible centrifugal pumps constructed of stainless steel and Teflon®.
- Tubing: Teflon or Teflon-lined polyethylene must be used to collect samples for organic analysis. For samples collected for inorganics analysis, Teflon or Teflon-lined polyethylene, polyvinyl chloride (PVC), Tygon, or polyethylene tubing may be used.
- Flow measurement supplies (e.g., graduated cylinder and stop watch).

- Power source (generator, etc.).

- Water quality indicator parameter monitoring instruments - pH, turbidity, specific conductances, and temperature. Optional indicators - Eh and dissolved oxygen. Water quality indicator parameters will be measured in the field in accordance with EPA-600/4-79-020 (1983) using the following methods: temperature (Method 170.1), pH (Method 150.1), turbidity (Method 180.1), specific conductance (Method 120.1), and dissolved oxygen (Method 360.1).

- Decontamination supplies (for monitoring instrumentation).

- Sample bottles and sample preservation supplies (as required by the analytical methods).

- Sample tags or labels.

A.1.3 Preliminary Site Activities

The following site activities are required prior to performing dedicated pump installation and/or well purging and ground-water sampling. Field logbooks and sampling forms should be filled out as the procedure is being performed, as noted:

- Enter the following information in the field logbook and sampling form, as appropriate: site name, project number, field personnel, well identification, weather conditions, date and time, equipment used, and quality assurance/quality control data for field instrumentation.

- Check well for damage or evidence of tampering, record pertinent observations in field logbook and sampling form.

- Lay out sheet of polyethylene for monitoring and sampling equipment.

- Unlock well and remove well cap (if applicable).

- Measure VOC with a flame ionization detector instrument at the rim of the well and in the breathing zone, and record the readings in the field logbook and the sampling form.

- If the well casing does not have a reference point (usually a v-cut or indelible mark in the well casing), make one.

- Measure and record the height of protective casing above the concrete pad or ground surface, as appropriate. This reading is compared to that recorded during well installation as an indication of possible well damage or settling that may have occurred.

- Measure and record the depth to water (to 0.01 ft) in each well to be sampled before purging begins. Care should be taken to minimize disturbance of any particulate attached to the sides or at the bottom of the well. The depth to well bottom should not be measured because of the potential to stir up sediment at the bottom of the well.

A.1.4 Pump Assembly and Installation Procedure

A variable displacement type pump (i.e., Grundfos Redi-Flo2 submersible pump) will be used to purge and sample monitoring wells which have a 2-in. inner diameter or greater well casing. The following general procedure was used to fabricate and install the pumps:

- Gauge well to measure to bottom and depth to water.

- Confirm gauging results match as-built well construction specifications.

- Establish required pump setting depth. Calculate length of tubing required by first calculating the distance between pump setting depth and top of PVC riser, and then subtracting out the length of the submersible pump (0.92 ft). Add to this length the tubing length required to extend tubing outside the protective casing and into a 5-gal bucket. Cut Teflon-lined polyethylene tubing to required length.

- Assembly pump fittings and secure tubing and suspension cable to pump. Secure suspension cable, tubing, and electric lead with wire tie.

- Install pump, stainless steel safety cable, Teflon-lined polyethylene tubing, and Teflon-lined electrical lines by lowering slowly into the well to a depth corresponding to the center of the saturated screen section of the well. It is also advisable to keep the pump intake at least 2 ft above the bottom of the well to prevent mobilization of any sediment present in the bottom of the well.

A.1.5 Sampling Procedure

The following general procedure should be followed to obtain representative ground-water samples. Field logbooks and sampling forms should be filled out as the procedure is being performed, as noted:

- Enter the following information in the field logbook and sampling form, as appropriate, prior to purging: purge date and time, purge method, and total well depth.

- Prepare the pump by checking electrical connections, discharge tubing, and motor (Grundfos Redi-Flo2). Locate the generator (if applicable) downwind of the well; connect the power converter to the generator.

- Connect the instrumentation header to the pump discharge and begin purging the well at 0.2-0.5 L/min, unless a different purge rate has been previously established for that well. Measure and record the water level and time with the pump in well before starting the pump. Continue pumping the well at 0.2-0.5 L/min.

- Establish that the water level has not dropped significantly such that the pump is dry (bubbles in discharge) or water is heard cascading down the inside of the well. This may be accomplished by setting the sensor of the water level meter approximately 3-6 in. below the static water level and monitoring for a continuous audible alarm, which indicates the sensor is in water and the level has not dropped more than 6 in. Ideally, the pump rate should cause little or no water level drawdown in the well (>0.5 ft and the water level should stabilize). The water level should be monitored every 3-5 minutes (or as appropriate) during pumping. Care should be taken not to cause entrainment of air in the pump system. Record pumping rate adjustments and depths to water. Pumping rates should, if needed, be reduced to the minimum capabilities of the pump (e.g., 0.1-0.2 L/min) to avoid pumping the well dry and/or to ensure stabilization of indicator parameters. If the recharge rate of the well is very low and the well is purged dry, then sampling will commence as soon as the well has recharged to a sufficient level to collected the appropriate volume of samples with the pump.

- During purging of the well, monitor the water quality indicator parameters (turbidity, temperature, specific conductance, pH, etc.) every 3-5 minutes (or as appropriate). Record pumping rate, drawdown, water quality indicator parameters values, and clock time at 3- to 5-minute intervals in field logbook and sampling record. Purging of the standing well water is considered complete when three consecutive readings of the water quality indicator parameters agree within approximately 10 percent. Turbidity readings consistently below 10 nephelometric turbidity units (NTU) are considered to represent stabilization of discharge water for this parameter. If the parameters have stabilized, but the turbidity is not in the range of the 10 NTU goal, the

pump flow rate should be decreased and measurement of the parameters should continue every 3-5 minutes. Measurements should be obtained using a flow through cell (preferred method) or taken in a clean container (a glass beaker is ideal).

- Reduce the pump flow rate to the lowest practical setting, usually about 0.1 L/min. Remove the in-line sensor, if applicable. If the water discharged by the pump is silty, wait for the water to clear before sampling. Ensure that bubbles are not observed in the discharge tubing. Record pertinent observations in field logbook and sampling records.

- Begin filling sample containers from the pump discharge, allowing the water to fill the containers by allowing the pump discharge to flow gently down the inside of the container with as little agitation or aeration as possible. Collect the samples in the order below, as applicable:

  — VOC
  — SVOC (pesticides and PCB)
  — Inorganics.

- VOC samples requiring pH adjustment will have their pH checked to assure that the proper pH has been obtained. This will require that a test sample be collected to determine the amount of preservative that needs to be added to the sample containers prior to sampling. Details on sample preservation are discussed in Section A.1.6.

- Label each sample as collected. Those samples (VOC, etc.) requiring cooling will be placed into an ice cooler for delivery to the laboratory. Metal samples, after preservation, do not need to be cooled.

- After collection of the samples, restore the dedicated pumping assembly to the well by hanging the tube, electric line, and support cable inside the well by the specially-designed PVC well cap assembly. Lock well.

- Complete remaining portions of Field Record of Well Gauging, Purging, and Sampling form (Figure A-1) after each well is sampled, including sample team members, sample date and time, total quantity of water removed, well sampling sequence and time of sample collection, types of sample bottles used, sample identification numbers, preservatives used, parameters requested for analysis, and field observations of sampling event.

A.1.6 Sample Preservation

The following preservation procedures are examples of typical preservation protocols specific to the indicated analyses. Minimum sample preservation requirements for each parameter group are summarized below:

- **VOC**—Aqueous VOC samples must be collected as specified below. Each VOC sample is taken in duplicate:

  — Uncap the sample bottle, taking care not to touch the Teflon-faced septum. If the septum is contaminated in any way, it should be replaced.

  — Fill a sample bottle, preserve with HC1, and check the pH. Adjust the volume of HCl to assure pH<2.

  — Add the amount of HC1 determined in the above step, and fill the sample vial slowly from the tubing, minimizing air entrainment, until the vial slightly overflows.

  — Place the Teflon-faced silicon rubber septum on the convex meniscus, Teflon side (shiny side) down and screw cap on.

  — Invert the bottle, tap lightly, and check for air bubbles.

  — If air bubbles are present, open the bottle, add sample to eliminate air bubbles, and reseal. Repeat this procedure until the bottle is filled and no air bubbles are detected.

  — Place samples on ice until shipment.

- **SVOC**—Fill the sample bottle, seal with a Teflon-lined cap, and place on ice for shipment.

- **Metals**—Fill the sample bottle, preserve the sample to pH<2 with nitric acid (HNO_3), seal container, and place sample on ice for shipment.

Disposable pipettes should be used to introduce chemicals into the samples. Chemicals used for preserving should be poured into a 150-ml beaker. They should not be drawn directly from the preservative bottles because the bottle may become contaminated. Measurements for pH and temperature should not be taken from the sample containers. When preserving samples to a required pH, pH paper should be used to check the resultant pH. The sample should be poured across the pH paper. Never place pH paper directly into sample.

NOTE: Shipping regulations limit the amount of preservative which can be added. For a 1-L sample, this is generally 1.5 ml of acid preservative.

A.1.7 Field Quality Control

Quality control samples are required to verify that the sample collection and handling process has not affected the quality of the ground-water samples. All field quality control samples must be prepared exactly as regular investigation samples with regard to sample volume, containers, and preservation. The following quality control samples will be collected for each sample delivery group (SDG) (an SDG may not exceed 20 samples) at the frequency noted:

- Field Duplicate—Required at a frequency of 10 percent per SDG.
- Matrix Spike/Matrix Spike Duplicate—Required at a frequency of 5 percent.
- Equipment Blank—Required once prior to installation of dedicated pump systems.
- Source Water Blank—Required at a frequency of once per sampling event.
- Trip Blank—Required for VOC samples at a frequency of one per sample shipment.

A.1.8 Decontamination

Non-dedicated sampling equipment and field monitoring equipment will be decontaminated prior to use and following sampling of each well. This equipment will be decontaminated by the procedure listed below. Alternative procedures must be approved by the Quality Assurance Officer prior to sampling event.

Procedure

- Flush the equipment with potable water
- Flush with non-phosphate detergent solution
- Flush with tap water to remove all of the detergent solution
- Flush with distilled/deionized water
- Flush with isopropyl alcohol
- Flush with distilled/deionized water.

It is recommended that the detergent and isopropyl alcohol used in the above sequence be used sparingly.

A.2 STANDARD OPERATING PROCEDURE NO. 2 - GROUND-WATER SAMPLING BY LOW-FLOW PURGE AND SAMPLING METHOD USING PERISTALTIC PUMPS

A.2.1 Scope of Application

The purpose of this SOP is to establish the protocol for collecting ground-water samples using peristaltic pump systems. The procedure is designed to permit the collection of ground-water samples with minimum turbidity, and is intended to be used in conjunction with the analyses for the most common types of ground-water contaminants (VOC, SVOC, pesticides, PCB, metals, and inorganic compounds).

A.2.2 Equipment/Materials

- LTMP.
- Well construction data, location map, field data from last sampling event.
- Field logbook and Field Record of Well Gauging, Purging, and Sampling forms (Figure A-1).
- Water level measuring device, 0.01 ft accuracy (electronic preferred) for monitoring water level drawdown during pumping operations.
- Peristaltic pump.
- In-well tubing: Teflon or Teflon-lined polyethylene must be used to collect samples for organic analysis. For samples collected for inorganics analysis, Teflon or Teflon-lined polyethylene, PVC, Tygon, or polyethylene tubing may be used.
- Pump head tubing: Silicon tubing must be used to in the pump head assembly.
- Flow measurement supplies (e.g., graduated cylinder and stop watch).
- Power source (battery, etc.).
- Water quality indicator parameter monitoring instruments - pH, turbidity, specific conductances, and temperature. Optional indicators - Eh and dissolved oxygen. Water quality indicator parameters will be measured in the field in accordance with EPA-600/4-79-020 (1983) using the following methods: temperature (Method 170.1), pH (Method 150.1), turbidity (Method 180.1), specific conductance (Method 120.1), and dissolved oxygen (Method 360.1).

- Decontamination supplies (for monitoring instrumentation).
- Sample bottles and sample preservation supplies (as required by the analytical methods).
- Sample tags or labels.

A.2.3 Preliminary Site Activities

The following site activities are required prior to performing dedicated tubing installation and/or well purging and ground-water sampling. Field logbooks and sampling forms should be filled out as the procedure is being performed, as noted:

- Enter the following information in the field logbook and sampling form, as appropriate: site name, project number, field personnel, well identification, weather conditions, date and time, equipment used, and quality assurance/ quality control data for field instrumentation.
- Check well for damage or evidence of tampering, record pertinent observations in field logbook and sampling form.
- Lay out sheet of polyethylene for monitoring and sampling equipment.
- Unlock well and remove well cap (if applicable).
- Measure VOC with a flame ionization detector instrument at the rim of the well and in the breathing zone and record the readings in the field logbook and the sampling form.
- If the well casing does not have a reference point (usually a v-cut or indelible mark in the well casing), make one.
- Measure and record the height of protective casing above the concrete pad, or ground surface, as appropriate. This reading is compared to that recorded during well installation as an indication of possible well damage or settling that may have occurred.
- Measure and record the depth to water (to 0.01 ft) in all wells to be sampled before purging begins. Care should be taken to minimize disturbance of any particulate attached to the sides or at the bottom of the well. The depth to well bottom is not measure because of the potential to stir up sediment at the bottom of the well.

A.2.4 Dedicated Tubing Installation Procedure

For wells to be sampled using peristaltic pumps connected to dedicated tubing, the following general procedure was used to install the tubing:

- Gauge well to measure to bottom and depth to water; record data in field logbook.
- Confirm gauging results match as-built well construction specifications.
- Establish required dedicated tube setting depth. Calculate length of tubing required by first calculating the distance between pump setting depth (center of screened interval) and top of steel casing. Add to this length a sufficient length (usually 3 ft) to extend tubing outside of well casing. Cut Teflon-lined polyethylene tubing to required length. Record this data in field logbook.
- Install Teflon-lined polyethylene tubing by lowering slowly into the well to a depth corresponding to the center of the saturated screen section of the well. It is also advisable to keep the tubing intake at least 2 ft above the bottom of the well to prevent mobilization of any sediment present in the bottom of the well.

A.2.5 Sampling Procedures

The following general procedure should be followed to obtain representative ground-water samples. Field logbooks and sampling forms should be filled out as the procedure is being performed, as noted:

- Enter the following information in the field logbook and sampling form, as appropriate, prior to purging: purge date and time, purge method, and total well depth.
- Prepare the pump by checking electrical connections and discharge tubing. Locate the battery downwind of the well; connect the peristaltic pump to the battery.
- Measure the water level with the pump in well before starting the pump. Begin purging the well at 0.3-0.5 L/min, unless a different purge rate has been previously established for that well.
- If well diameter permits, establish that the water level has not dropped significantly such that the pump is dry (air in discharge) or tubing suction is broken. This may be accomplished by setting the sensor of the water level meter approximately 3-6 in. below the static water level and monitoring for a

continuous audible alarm, which indicates the sensor is in water and the level has not dropped more than 6-in. Ideally, the pump rate should cause little or no water level drawdown in the well (>0.5 ft and the water level should stabilize). The water level should be monitored every 3-5 minutes (or as appropriate) during pumping. Care should be taken not to cause pump suction to be broken, or entrainment of air in the pump system. Record pumping rate adjustments and depths to water. Pumping rates should, if needed, be reduced to the minimum capabilities of the pump (e.g., 0.3 L/min) to avoid pumping the well dry and/or to ensure stabilization of indicator parameters. If the recharge rate of the well is very low and the well is purged dry, then sampling will commence as soon as the well has recharged to a sufficient level to collected the appropriate volume of samples with the pump.

- During purging of the well, monitor the field indicator parameters (turbidity, temperature, specific conductance, pH, etc.) every 3-5 minutes (or as appropriate). Purging of the standing well water is considered complete when three consecutive readings of the water quality indicator parameters agree within approximately 10 percent. Turbidity readings consistently below 10 NTU are considered to represent stabilization of discharge water for this parameter. If the parameters have stabilized, but the turbidity is not in the range of the 10 NTU goal, the pump flow rate should be decreased and measurement of the parameters should continue every 3-5 minutes Measurements should be obtained using a flow through cell (preferred method) or taken in a clean container (a glass beaker is ideal).

- Reduce the pump flow rate to the lowest practical setting, usually about 0.3 L/min. Remove the in-line sensor, if applicable. If the water discharged by the pump is silty, wait for the water to clear before sampling. Ensure that bubbles are not observed in the discharge tubing.

- Collect ground-water samples directly from the silicon tubing into preserved (when appropriate) sample containers. Begin filling sample containers from the pump discharge, allowing the water to fill the containers by allowing the pump discharge to flow gently down the inside of the container with as little agitation or aeration as possible. Collect the samples in the order below, as applicable:

  — VOC
  — SVOC (pesticides and PCB)
  — Inorganics.

- VOC samples requiring pH adjustment will have their pH checked to assure that the proper pH has been obtained. This will require that a test sample be collected to determine the amount of preservative that needs to be added to the sample containers prior to sampling. Detail on sample preservation are discussed in Section A.2.6.

- Label each sample as collected. Those samples (VOC, etc.) requiring cooling will be placed into an ice cooler for delivery to the laboratory. Metal samples, after preservation, do not need to be cooled.

- After collection of the samples, restore the dedicated tubing assembly to the well by hanging the tube inside the well by the specially-designed PVC well cap assembly. Lock well.

- Complete remaining portions of Field Record of Well Gauging, Purging, and Sampling form (Figure A-1) after each well is sampled, including: sample team members, sample date and time, total quantity of water removed, well sampling sequence and time of sample collection, types of sample bottles used, sample identification numbers, preservatives used, parameters requested for analysis, and field observations of sampling event.

- The silicon tubing used in the peristaltic pump will be changed after use at each well.

A.2.6 Sample Preservation

The following preservation procedures are examples of typical preservation protocols specific to the indicated analyses. Minimum sample preservation requirements for each parameter group are summarized below:

- **VOC**—Aqueous VOC samples must be collected as specified below. Each VOC sample is taken in duplicate:

  — Uncap the sample bottle, taking care not to touch the Teflon-faced septum. If the septum is contaminated in any way, it should be replaced.

  — Fill a sample bottle, preserve with HC1, and check the pH. Adjust the volume of HCl to assure pH<2.

  — Add the amount of HC1 determined in the above step, and fill the sample vial slowly from the tubing, minimizing air entrainment, until the vial slightly overflows.

— Place the Teflon-faced silicon rubber septum on the convex meniscus, Teflon side (shiny side) down and screw cap on.

— Invert the bottle, tap lightly, and check for air bubbles.

— If air bubbles are present, open the bottle, add sample to eliminate air bubbles, and reseal. Repeat this procedure until the bottle is filled and no air bubbles are detected.

— Place samples on ice until shipment.

- **SVOC**—Fill the sample bottle, seal with a Teflon-lined cap, and place on ice for shipment.

- **Metals**—Fill the sample bottle, preserve the sample to pH<2 with nitric acid (HNO_3), seal container, and place sample on ice for shipment.

Disposable pipettes should be used to introduce chemicals into the samples. Chemicals used for preserving should be poured into a 150-ml beaker. They should not be drawn directly from the preservative bottles because the bottle may become contaminated. Measurements for pH and temperature should not be taken from the sample containers. When preserving samples to a required pH, pH paper should be used to check the resultant pH. The sample should be poured across the pH paper. Never place pH paper directly into sample.

NOTE: Shipping regulations limit the amount of preservative which can be added. For a 1-L sample, this is generally 1.5 ml of acid preservative.

A.2.7 Field Quality Control

Quality control samples are required to verify that the sample collection and handling process has not affected the quality of the ground-water samples. All field quality control samples must be prepared exactly as regular investigation samples with regard to sample volume, containers, and preservation. The following quality control samples will be collected for each SDG (an SDG may not exceed 20 samples) at the frequency noted:

- Field Duplicate—Required at a frequency of 10 percent per SDG.
- Matrix Spike/Matrix Spike Duplicate—Required at a frequency of 5 percent.
- Equipment Blank—Required once prior to installation of dedicated pump systems.
- Source Water Blank—Required at a frequency of once per sampling event.
- Trip Blank—Required for VOC samples at a frequency of one per sample shipment.

A.2.8 Decontamination

Non-dedicated sampling and field monitoring equipment will be decontaminated prior to use and following sampling of each well. This equipment will be decontaminated by the procedure listed below. Alternate procedures must be approved by the Quality Assurance Officer prior to the sampling event.

Procedure

- Flush the equipment with potable water
- Flush with non-phosphate detergent solution
- Flush with tap water to remove all of the detergent solution
- Flush with distilled/deionized water
- Flush with isopropyl alcohol
- Flush with distilled/deionized water.

It is recommended that the detergent and isopropyl alcohol used in the above sequence be used sparingly.

A.3 STANDARD OPERATING PROCEDURE NO. 3 - SURFACE WATER AND LEACHATE SEEP SAMPLING PROCEDURE

A.3.1 Scope of Application

The purpose of this SOP is to establish the protocol for collecting surface water and leachate seep samples. The procedure is designed to permit the collection of representative surface water and leachate seep samples, and has been adapted from the procedure outlined in the LTMP (ABB-ES 1994). This SOP is suitable for collecting surface water and seep samples requiring analyses for the most common types of surface water contaminants (VOC, SVOC, pesticides, PCB, metals, and inorganic compounds).

A.3.2 Equipment and Materials

- LTMP.
- Location map, field data from last sampling event.
- Field logbook and Field Record of Surface Water and Sediment Sampling forms (Figure A-2).
- Water quality indicator parameter monitoring instruments - pH, turbidity, specific conductances, and temperature. Optional indicators - Eh and dissolved oxygen.
- Decontamination supplies (for monitoring instrumentation).
- Dedicated, pre-cleaned 1-L wide-mouth sample container (for sample collection).
- Sample bottles and sample preservation supplies (as required by the analytical methods).
- Sample tags or labels.

A.3.3 Preliminary Site Activities

The following site activities are required prior to performing surface water or leachate seep sampling. Field logbooks and sampling forms should be filled out as the procedure is being performed, as noted:

- Enter the following information in the field logbook and sampling form, as appropriate: site name, project number, field personnel, sample station identification, weather conditions, date and time, equipment used, and quality assurance/quality control data for field instrumentation.

- Visually inspect sample station for evidence of changes in physical condition; record pertinent observations in field logbook and sampling form.

- Lay out sheet of polyethylene for monitoring and sampling equipment.

- Measure VOC with a flame ionization detector instrument in the breathing zone and record the reading in the field logbook and sampling form.

A.3.4 Sampling Procedure

The technique for surface water and leachate seep sampling must be selected after addressing such items as:

- Depth of waterbody
- Flow rate
- Stratification
- Specific gravity/solubility of anticipated analytical parameters
- Seasonal variations
- Analytical parameters of interest.

The following general procedure should be used to obtain representative surface water and leachate seep samples. Field logbooks and sampling forms should be filled out as the procedure is being performed, as noted:

- Enter the following information in the field logbook and sampling form, as appropriate, prior to sampling: date and time, sample method, and sample depth.

- Collect the sample from the surface water by immersing a pre-cleaned dedicated 1-L glass sample container into the waterbody. If a stream is being sampled, collect the sample upstream of the sampler with the opening of the sampling device oriented upstream but avoiding floating debris.

- Directly fill the appropriate sample containers from the 1-L sampling device. Collect the samples in the order below, as applicable:

— VOC
— SVOC (pesticides and PCB)
— Inorganics.

- Water sample containers are generally filled directly from the source or sampler without special considerations. The exception is the collection of aqueous VOC samples requiring pH adjustment. VOC samples will have their pH checked to assure that the proper pH has been obtained. This will require that a test sample be collected to determine the amount of preservative that needs to be added to the sample containers prior to sampling. Details on sample preservation methods are discussed in Section A.3.6.

- Label each sample as collected. Those samples (VOC, etc.) requiring cooling will be placed into an ice cooler for delivery to the laboratory. Metal samples, after preservation, do not need to be cooled.

- Measure water quality indicator parameters, if possible, by direct immersion of instrument probes into the waterbody immediately following sample collection in accordance with EPA-600/4-79-020 (1983) using the following methods: temperature (Method 170.1), pH (Method 150.1), turbidity (Method 180.1), specific conductance (Method 120.1), and dissolved oxygen (Method 360.1). If direct measurement is not possible, measure these parameters from water remaining in the sampling device or another sample bottle. Record this information in the field logbook and sample data record.

- Complete remaining portions of the Field Record of Surface Water and Sediment Sampling form (Figure A-2) after each station is sampled, including: time of sample collection, types of sample bottles used, sample identification numbers, preservatives used, parameters requested for analysis, and field observations of sampling event.

A.3.5 Sample Preservation

The following preservation procedures are examples of typical preservation protocols specific to the indicated analyses. Minimum sample preservation requirements for each parameter group are summarized below:

- **VOC**—Aqueous VOC samples must be collected as specified below. Each sample is taken in duplicate:

  — Uncap the sample bottle, taking care not to touch the Teflon-faced septum. If the septum is contaminated in any way, it should be replaced.

— Fill a sample bottle, preserve with HC1, and check the pH. Adjust the volume of HCl to assure pH<2.

— Add the amount of HC1 determined in the above step, and fill the sample vial slowly from the 1-L container, minimizing air entrainment, until the vial slightly overflows.

— Place the Teflon-faced silicon rubber septum on the convex meniscus, Teflon side (shiny side) down and screw cap on.

— Invert the bottle, tap lightly, and check for air bubbles.

— If air bubbles are present, open the bottle, add sample to eliminate air bubbles, and reseal. Repeat this procedure until the bottle is filled and no air bubbles are detected.

— Place samples on ice until shipment.

- **SVOC**—Fill the sample bottle, seal with a Teflon-lined cap, and place on ice for shipment.

- **Metals**—Fill the sample bottle, preserve the sample to pH<2 with nitric acid (HNO_3), seal container, and place sample on ice for shipment.

Disposable pipettes should be used to introduce chemicals into the samples. Chemicals used for preserving should be poured into a 150-ml beaker. They should not be drawn directly from the preservative bottles because the bottle may become contaminated. Measurements for pH and temperature should not be taken from the sample containers. When preserving samples to a required pH, pH paper should be used to check the resultant pH. The sample should be poured across the pH paper. Never place pH paper directly into sample.

NOTE: Shipping regulations limit the amount of preservative which can be added. For a 1-L sample, this is generally 1.5 ml of acid preservative.

A.3.6 Field Quality Control

Quality control samples are required to verify that the sample collection and handling process has not affected the quality of the surface water and leachate seep samples. All field quality control samples must be prepared exactly as regular investigation samples with regard to sample volume, containers, and preservation. The following quality control samples will be collected for each SDG (an SDG may not exceed 20 samples) at the frequency noted:

- Field Duplicate—Required at a frequency of 10 percent per SDG.
- Matrix Spike/Matrix Spike Duplicate—Required at a frequency of 5 percent.
- Source Water Blank—Required at a frequency of once per sampling event.
- Trip Blank—Required for VOC samples at a frequency of one per sample shipment.

A.3.7 Decontamination

Field monitoring equipment will be decontaminated prior to use and following sampling of each station by the procedure listed below. Laboratory pre-cleaned, dedicated 1-L glass sample collection containers are used once and discarded and, therefore, do not undergo any decontamination.

Procedure

- Flush the equipment with potable water
- Flush with non-phosphate detergent solution
- Flush with tap water to remove all of the detergent solution
- Flush with distilled/deionized water
- Flush with isopropyl alcohol
- Flush with distilled/deionized water.

It is recommended that the detergent and isopropyl alcohol used in the above sequence be used sparingly.

A.4 STANDARD OPERATING PROCEDURE NO. 4 - SEDIMENT SAMPLING PROCEDURE

A.4.1 Scope of Application

The purpose of this SOP is to establish the protocol for collecting sediment samples. The procedure is designed to permit the collection of representative sediment samples, and has been adapted from the procedure outlined in the LTMP (ABB-ES 1994). This SOP is suitable for collecting sediment samples requiring analyses for most various types of contaminants (VOC, SVOC, pesticides, PCB, metals, and inorganic compounds).

A.4.2 Equipment and Materials

- LTMP.
- Location map, field data from last sampling event.
- Field logbook and Field Record of Surface Water and Sediment Sampling forms (Figure A-2).
- Decontamination supplies (for sampling equipment and monitoring instrumentation).
- Stainless steel hand trowel and mixing bowls (for sample collection).
- Sample bottles and sample tags or labels.

A.4.3 Preliminary Site Activities

The following site activities are required prior to performing sediment sampling. Field logbooks and sampling forms should be filled out as the procedure is being performed, as noted:

- Enter the following information in the field logbook and sampling form, as appropriate: site name, project number, field personnel, sample station identification, weather conditions, date and time, equipment used, and quality assurance/quality control data for field instrumentation.
- Visually inspect sample station for evidence of changes in physical condition; record pertinent observations in field logbook and sampling form.
- Lay out sheet of polyethylene for monitoring and sampling equipment.

- Measure VOC with a flame ionization detector instrument in the breathing zone and record the reading in the field logbook.

- Clear sample area of detritus (seasonally).

A.4.4 Sampling Procedure

Sediment samples are usually taken in conjunction with surface water and/or leachate seep samples. If both surface water and sediment samples are to be collected at a given sampling location, the water samples will be collected prior to the sediment sample. The sediment samples will be collected in the following manner:

- The sampler will locate the sample station as indicated on the site map and flagged with a stake (unless previously flagged).

- The sampler will photograph the sample location (optional), complete the required records, and initiate chain-of-custody procedures.

The recommended sediment collection devices are Teflon® or stainless steel spatulas, hand trowels, or core tubes for shallow wadeable water. In shallow, wadeable waters, the direct use of a core liner or tube (5-in.) is recommended. The tube is pushed into the substrata until approximately 1 in. (2.5 cm) or less of the tube is above the sediment water interface. When hard or corse substrates are sampled, a gentle rotation of the tube while it is pushed will facilitate greater penetration and reduce core compaction. The tube is then capped with a Teflon plug or a sheet of Teflon held in place by a rubber stopper or cork. After capping, the tube is slowly extracted, the negative pressure and adherence of the sediment keeping the sample in the tube. Caution should be exercised not to disturb the area to be sampled. The sampler should always stand downstream from the sample location when wading in shallow water.

To help prevent contamination from direct contact between the sampler's gloves and the upper part of the tube, a collar-type device can be constructed of wood and should have a circular recess to accept the top of the tube. The recess should have a hole in it to allow water to pass through when the tube is pushed in, and should be lined with sheet Teflon. Handles should be attached to the side of the collar. After the tube is driven in, one should use a wide circular motion to help loosen the core for easy removal; take off the collar device; cap the top of the tube (as described above), and pull it up out of the sediment layer.

Sediment samples must contain greater than 30 percent solids to be acceptable. A minimum of 100 g of sediment should be collected at each sample station. Therefore, one tube with a 4-in. long core, outer diameter of 2 in., and wall thickness of 0.125-in. is adequate for one sample (the volume of each core would be approximately 0.75 qt or 750 ml). For other tube sizes and core

lengths, the number of tubes necessary can be calculated by using the formula for the volume of a cylinder. Additional material may be required if duplicate analyses are performed on individual samples.

When the sediment material is difficult to penetrate with a Teflon or glass tube, a commercially available hand coring device can be used. These devices are equipped with a metal barrel, a handle, and a core liner. The liner is inserted and then held in place by a screw-on core cutter, usually manufactured of stainless steel. The core cutter, along with the handle attached to the core barrel, increases the efficiency of sediment penetration. After the sample has been obtained, the cutting head is removed and the liner is carefully withdrawn and immediately capped, as previously described. When coarse grain deposits such as sand are sampled, the sue of a core retainer will increase the efficiency of sample retention. Only retainers manufactured of stainless steel should be used in order to minimize the risk of trace metals contamination and eliminate corrosion. When several samples are to be obtained, it is advisable to carry extra core liners to the sample site. This eliminates the need for time-consuming extensions and permits the use of the core liners as sample containers for shipment to the laboratory.

- Directly fill the appropriate sample containers from the sampling device. Collect the samples in the order below, as applicable:

  — VOC
  — SVOC (pesticides and PCB)
  — Inorganics.

- Label each sample as collected. Those samples (VOC, etc.) requiring cooling will be placed into an ice cooler for delivery to the laboratory.

- Complete remaining portions of the Field Record of Surface Water and Sediment Sampling form (Figure A-2) as each sample is collected, including: time sample collected, type of sample collected, sediment type, sample odor and color, equipment used for sample collection, decontamination fluids used, types of sample bottles used, sample identification numbers, parameters requested for analysis, and field observations of sampling event.

A.4.5 Field Quality Control

Quality control samples are required to verify that the sample collection and handling process has not affected the quality of the surface water and leachate seep samples. All field quality control samples must be prepared exactly as regular investigation samples with regard to sample volume, containers, and preservation. The following quality control samples will be collected for each SDG (an SDG may not exceed 20 samples) at the frequency noted:

- Field Duplicate—Required at a frequency of 10 percent per SDG.
- Matrix Spike/Matrix Spike Duplicate—Required at a frequency of 5 percent.
- Equipment (Rinsate) Blank—Required once per day per media sampled.
- Source Water Blank—Required at a frequency of once per sampling event.
- Trip Blank—Required for VOC samples at a frequency of one per sample shipment.

A.4.6 Decontamination

Field monitoring and sampling equipment will be decontaminated prior to use and following sampling of each station by the procedure listed below.

Procedure

- Flush the equipment with potable water
- Flush with non-phosphate detergent solution
- Flush with tap water to remove all of the detergent solution
- Flush with distilled/deionized water
- Flush with isopropyl alcohol
- Flush with distilled/deionized water.

It is recommended that the detergent and isopropyl alcohol used in the above sequence be used sparingly.

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: _____ PROJECT NUMBER: _____
WELL I.D.: _____ WELL LOCK: _____
WELL CONDITION: _____ WEATHER: _____

GAUGE DATE: _____ GAUGE TIME: _____
SOUNDING METHOD: _____ MEASUREMENT REF: _____
STICK UP/DOWN (ft): _____ WELL DIAMETER (in.): _____

PURGE DATE: _____ PURGE TIME: _____
PURGE METHOD: _____ FIELD TECHNICIAN: _____
AMBIENT AIR VOCs (ppm) _____ WELL MOUTH VOCs (ppm): _____

WELL VOLUME

A. WELL DEPTH (ft): _____ D. WELL VOLUME/FT: _____
B. DEPTH TO WATER (ft): _____ E. WELL VOLUME (gal) (C*D): _____
C. LIQUID DEPTH (ft) (A-B): _____ F. THREE WELL VOLUMES (gal) (E*3): _____

	BEGINNING	Number of Well Volumes Purged				
		1	2	3	4	5
TIME (min)						
DEPTH TO WATER (ft)						
PURGE RATE (l/min)						
VOLUME PURGED (gal)						
pH						
TEMPERATURE (C)						
CONDUCTIVITY (μmhos/cm)						
DISSOLVED OXYGEN (μg/L)						
eh (mv)						
TURBIDITY (NTU)						

TOTAL QUANTITY OF WATER REMOVED (gal): _____

SAMPLERS: _____ SAMPLING TIME (START/END) : _____

SAMPLING DATE: _____ DECONTAMINATION FLUIDS USED: _____

SAMPLE TYPE: _____ SAMPLE PRESERVATIVES: _____

SAMPLE BOTTLE IDs: _____

SAMPLE PARAMETERS: _____

COMMENTS AND OBSERVATIONS: _____

Figure A-1. Field Record of Well Gauging, Purging, and Sampling form.

EA ENGINEERING, SCIENCE, AND TECHNOLOGY, INC.

FIELD RECORD OF SURFACE WATER AND SEDIMENT SAMPLING

Project:			Site:
Project Number:			Date:
Sample Location ID:			Sample Team Members:
Time:	Start:	End:	Signature of Sampler:

SURFACE WATER INFORMATION

Water Depth and Sample Location _____ (ft)

Depth of Sample from Top of Water _____ (ft)

Type of Surface Water:
( ) Stream ( ) River
( ) Pond/Lake ( ) Seep

Equipment Used for Collection
( ) None, Grab into Bottle
( ) Bomb Sampler
( ) Pump _____

Decontamination Fluids Used:
( ) Ethyl Alcohol
( ) 25% Methanol/75% ASTM Type II Water
( ) Deionized Water
( ) Liquinox Solution
( ) Hexane
( ) HNO_3 Solution
( ) Potable Water
( ) None

Velocity Measurements Obtained? ( ) No ( ) Yes, See Flow Measurement Data Record _____

Temperature _____ Degree C. Specific Conductivity _____ µmhos/cm pH _____ Units Dissolved Oxygen_____ ppm

Field QC Data: ( ) Field Duplicate Collected
Duplicate ID _____

Sample Location Sketch:
( ) Yes
( ) No

Method Used:
( ) Winkler
( ) Probe

SEDIMENT INFORMATION

Type of Sample Collected:
( ) Discrete
( ) Composite

Sediment Type:
( ) Clay
( ) Sand
( ) Organic
( ) Gravel

Equipment Used for Collection:
( ) Gravity Corer
( ) Stainless Steel Split Spoon
( ) Dredge
( ) Hand Spoon
( ) Aluminum Pans
( ) Stainless Steel Bucket
( ) _____

Decontamination Fluids Used:
( ) Ethyl Alcohol
( ) 25% Methanol/75% ASTM Type II Water
( ) Deionized Water
( ) Liquinox Solution
( ) Hexane
( ) HNO_3 Solution
( ) Potable Water
( ) None

Sample Observations:
( ) Odor _____
( ) Color _____
( ) _____

Field QC Data: ( ) Field Duplicate Collected
Duplicate ID _____

SAMPLES COLLECTED

Check if Required at this Location	Matrix: Surface Water	Matrix: Sediment	Check if Preserved with Acid/Base	Volume Required	Check if Sample Collected	Sample Bottle IDs			

NOTES/SKETCH

Figure A-2. Field Record of Surface Water and Sediment Sampling form.

Appendix B

Field Monitoring and Sampling Forms

B.1 Field Record of Well Gauging Forms
B.2 Field Record of Well Gauging, Purging, and Sampling Forms
B.3 Field Record of Surface Water and Sediment Sampling Forms

Appendix B.1

Field Record of Well Gauging Forms

EA ENGINEERING, SCIENCE, AND TECHNOLOGY, INC.

FIELD RECORD OF WELL GAUGING

Project Name: NASB - Brunswick SITE Eastern Plume 1,3	Project No: 29600.47	Date: 3/17/95
Weather/Temperature: misty / rain / 30°-40°F		
EA Personnel: MRS, BDA	Equipment: OVA / QED	

	Well No.	Labeled/ Capped	Well Locked	VOCs Concentration (ppm) Air Ambient	VOCs Concentration (ppm) Well Mouth	Casing/Seal Condition	Protective Casing Elevation (ft)	PVC Casing Elevation (ft)	Depth to Water (ft)	Measured Well Depth (ft)	Water Table Elevation (ft)
	MW 303	Y/Y	Y	0	0	Good	1.71	2.21	12.15	71.62	
	MW 305	Y/N	Y	0	0	Good	~~2.77~~ 2.66	2.16	7.71	54.12	
	P 132	Y/N	Y	0	0	Good	2.50	3.00	17.84	32.46	
	EP-15	Y/Y	Y	0	0	Good	2.35	2.31	11.08	82.68	
	EW-5	Y/Y	N	0	0	Good	2.08	5.75 (D)	4.01	84.99	
	MW306	N/N	Y	0	0	Good	2.33	2.79	16.45	56.98	
(a)	MW309A	Y/N	N	0	0	Good	2.62	3.04	~~2.56~~ 0 (a)	72.71	
(b)	MW309B	Y/Y	Y	0	0	Good	~~0~~ 2.46	2.87	0	59.43	
(c)	MW 308	Y/Y	Y	0	0	Good	2.42	2.79	3.82 (E)	72.85 (E)	
	EP-11	Y/Y	N	0	0	Good	2.04	~~2.77~~ 1.81	6.50	65.03	
(c)	EP 9	Y/Y	N	0	0	Good	2.19	2.04	3.38		
(c)	FP 10	Y/Y	N	—	—		2.58	2.46	2.00		
	EW4	Y/Y	N			Good	2.21	6.37 (D)	.92	69.37	

NOTE: All measurements in feet mean sea level (MSL).

(a) - active flow of water filling casing and PVC pipe.
(b) - water to top of PVC pipe.
(c) Frozen (E) guessed on 3/29/95 AT.
(D) elevation below grade - casing set down in pit. No PVC pipe (6" aluminum well)
(E)

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EA ENGINEERING, SCIENCE, AND TECHNOLOGY, INC.

FIELD RECORD OF WELL GAUGING

Project Name: NASB - Brunswick LTMP	Project No: 29600.47	Date: 3/17/95
Weather/Temperature: misty / rain / 30° - 40° F		
EA Personnel: MRS, BDA	Equipment: OVA/QED	

Well No.	Labeled/ Capped	Well Locked	VOCs Concentration (ppm) Air Ambient	VOCs Concentration (ppm) Well Mouth	Casing/Seal Condition	Protective Casing Elevation (ft)	PVC Casing Elevation (ft)	Depth to Water (ft)	Measured Well Depth (ft)	Water Table Elevation (ft)
EP 12	Y/Y	No	0	0	good	2.23	2.25	15.34	69.61	
EP 4	Y/N	No	0	0	good	2.14	2.02	2.57	91.11	
EP 5	Y/Y	No	0	0	good	3.12	3.06	3.45	79.85	
EW 2	Y/Y	No	0	0	good	1.96	NA	.15	90.86	
MW319	Y/Y	Y	0	0	good	2.42	2.96	8.84	72.44	
EP6	Y/Y	No	0	0	good	2.67	2.~~84~~56	9.47	83.51	
(c) MW207A	N/N	No	~~0~~	~~0~~	Broken PVC pipe	2.42	2.50	0	73.22	
MW207B	Y/Y	Y	0	0	Good (G)	2.00	~~2.21~~ 1.79	5.03	9.01	
MW311	Y/Y	Y	0	0	No PVC pipe inside - Blocked pipe			3.84		
EP 3	Y/Y	N	0	0	G - Frozen	2.37	2.21	2.78		
EP1	Y/Y	N	0	0	G	2.54	2.35	6.15	100.51	
EW 1	~~N~~/Y	N	0	0	G	6.42	6.16 (a)	.67	99.66	
EP2	Y/Y	N	0	0	G - Frozen	2.62	2.50	4.66		

NOTE: All measurements in feet mean sea level (MSL).

(a) - active flow of H_2O over PVC pipe & casing

(b) marked EW2

(c) elevation below grade - steel well casing set down in pit. No PVC pipe (aluminum 6" well)

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EA ENGINEERING, SCIENCE, AND TECHNOLOGY, INC.

FIELD RECORD OF WELL GAUGING

Project Name: NASB - Brunswick LTMP	Project No: 29600.47	Date: 3/17/95
Weather/Temperature: Misty / Rain / 30-40°F		
EA Personnel: MRS, BDA	Equipment: OVA, QED	

Well No.	Labeled/ Capped	Well Locked	VOCs Concentration (ppm) Air Ambient	VOCs Concentration (ppm) Well Mouth	Casing/Seal Condition	Protective Casing Elevation (ft)	PVC Casing Elevation (ft)	Depth to Water (ft)	Measured Well Depth (ft)	Water Table Elevation (ft)
MW230A	Y/N	Y	0	0	G PVC mod trim	2.21	2.54	13.51	82.08	
MW224	Y/N	Y	0	0	G	2.29	2.92	23.45	46.95	
MW222	Y/N	Y	0	0	G	3.08	3.33	23.95	45.34	
MW209	Y/Y	Y	0	0	G	2.00	1.83	20.02	32.38	
MW223	Y/N	Y	0	0	G	2.21	2.46	21.20	42.61	
EP7	Y/Y	N	0	0	G	2.83	2.73	15.92	70.20	
MW229A	Y/N	Y	0	0	G	2.75	3.04	13.50	64.97	
MW229B	Y/N	Y	0	0	G(a)	2.54	2.74	14.86*	32.70	
MW20B	Y/Y	Y	0	0	G	~~2.79~~ 1.98	1.98	16.98	103.33	
MW 106	Y/Y	Y	0	0	G	~~1.43~~ 3.58	3.48	19.14	37.27	
EW 3	Y/Y	N	0	0	G	2.00	6.31(b)	8.67	67.04	
EP 13	Y/Y	N	0	0	G	2.62	2.52	4.18	71.03	
EP 14	Y/Y	N	0	0	G	2.21	2.17	9.04	80.05	

NOTE: All measurements in feet mean sea level (MSL). * - top of steel casing.

(a) - PVC pipe 33" down in steel casing

(b) - elevation below grade - steel casing set down in ~~wel~~ pit. (No PVC pipe, aluminum 6" well).

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EA ENGINEERING, SCIENCE, AND TECHNOLOGY, INC.

FIELD RECORD OF WELL GAUGING

Project Name: NASB - Brunswick LTMP	Project No: 29600.47	Date: 3/17/95
Weather/Temperature: Misty / Rain / 30-40°F		
EA Personnel: MRS, BDH	Equipment: OVA, QED	

Well No.	Labeled/ Capped	Well Locked	VOCs Concentration (ppm)		Casing/Seal Condition	Protective Casing Elevation (ft)	PVC Casing Elevation (ft)	Depth to Water (ft)	Measured Well Depth (ft)	Water Table Elevation (ft)
			Air Ambient	Well Mouth						
MW225A	Y/N	Y	0	0	G	2.81	2.92	15.16	76.03	
MW225B	Y/N	Y	0	0	G	2.48	2.87	16.83	42.00	
MW206B	Y(a)/Y	Y	0	0	G	2.37	2.12	16.40	27.17	
MW206A	Y(a)/Y	Y	0	0	G	2.35	2.25	15.21	74.36	
MW310	N/N	Y	0	0	G	2.64	3.04	24.06	72.83	
MW205	Y/Y	Y	0	0	G	1.89	1.85	21.27	78.77	
MW105B	Y/Y	Y	0	0	G	3.75	3.56	6.82	22.91	
MW105A	Y/N	Y	0	0	G	3.33	3.17	.25	46.87	
MW307	Y/N	Y	0	0	G	2.06	2.58	16.15	22.21	

NOTE: All measurements in feet mean sea level (MSL).

(a) missing the "B"

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EA ENGINEERING, SCIENCE, AND TECHNOLOGY, INC.

FIELD RECORD OF WELL GAUGING

Project Name: NASB - Brunswick LTMP	Project No: 29600.47	Date: 3/18/95
Weather/Temperature: N. Breeze / overcast misty → clear.		
EA Personnel: MRS, BDA	Equipment: OVA / QED	

Well No.	Labeled/ Capped	Well Locked	VOCs Concentration (ppm) Air Ambient	VOCs Concentration (ppm) Well Mouth	Casing/Seal Condition	Protective Casing Elevation (ft)	PVC Casing Elevation (ft)	Depth to Water (ft)	Measured Well Depth (ft)	Water Table Elevation (ft)
EP8	Y/Y	N	0	0	(a) G - unable to get cap off					
MW313	Y/N	N	0	~	G	2.79	2.87	6.98	37.14	
MW204	Y/Y	Y	0	0	G	1.75	1.75	29.09	37.18	
MW219	Y/N	Y	0	0	G	2.58	2.96	28.71	71.82	
MW203	N/Y	N (b)	0	0	G	2.08	2.14	30.13	42.04	
MW218	Y/N	Y	0	0	G	2.75	2.96	32.92	53.54	
MW202A	N/Y	Y	0	0	G Dented	2.08	1.92	15.93	31.09	
MW202B	Y/Y	Y	0	0	G	1.62	1.75	16.44	17.93	
MW214	N/N	Y	0	0	G	2.83	2.92	19.73	40.75	
(c) MW215B?					Broken/Bent					
MW217A	Y/Y	Y	0	0	G	2.19	2.62	14.24	40.93	
MW217B	Y/N	Y	0	0.15	G	2.46	2.87	13.58	27.20	
MW234	N/N	N	0	0	G	2.67	2.67	8.92	23.44	

NOTE: All measurements in feet mean sea level (MSL).

(a) PVC pipe spins with cap - unable to get off

(b) lock tab broken on casing - needs welding.

(c) MW215A Not Found.

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EA ENGINEERING, SCIENCE, AND TECHNOLOGY, INC.

FIELD RECORD OF WELL GAUGING

Project Name: NASB – Brunswick LTMP	Project No: 29600.47	Date: 3/18/95
Weather/Temperature: N. Breeze / overcast clearing		
EA Personnel: MRS, BDA	Equipment: OVA / QED	

Well No.	Labeled/ Capped	Well Locked	VOCs Concentration (ppm) Air Ambient	VOCs Concentration (ppm) Well Mouth	Casing/Seal Condition	Protective Casing Elevation (ft)	PVC Casing Elevation (ft)	Depth to Water (ft)	Measured Well Depth (ft)	Water Table Elevation (ft)
MW232A	Y/N	N	0	0		2.52	2.42	11.56	38.93	
MW216A	Y/N	Y	0	20 ppm	Good (a)	2.29	.87	10.63 (b)	30.65	
MW216B	Y/N	Y	0	8 ppm	G	2.46	2.25	14.17	22.54	
EW6	Y/Y	Y	0	2	G	2.29	NO PVC.	20.14	39.05	
MW220	Y/N	Y	0	0	G	1.46	1.92	8.94	39.01	
MW218B	N/Y	Y	0	0	G	1.67	1.37	6.88	26.40	
EW-7			0	800	G	2.31 (c)	(D)	12.85	50.55	
MW211A	N/Y	Y	0	0	G	2.14	2.31	19.15	137.02	
MW211B	N/Y	Y	0	0	G	25" 2.08	1.83	12.24	30.97	
MW201	N/Y	Y	0	0	G	~~2.17~~ ~~1.75~~	2.02	12.68	32.47	
P110	—	—	—	—	—	None	2" 1.75	22.72	24.14	
P124	—	—	—	—	—	None	~~30"~~ 2.52	21.01	23.25	
MW318	Y/N	Y	0	0	G	2.58	2.96	4.53	25.14	

NOTE: All measurements in feet mean sea level (MSL).

(a) PVC. pipe 17" below steel casing.
(b) to steel Casing

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(c) Top of steel casing at grade.

EA ENGINEERING, SCIENCE, AND TECHNOLOGY, INC.

FIELD RECORD OF WELL GAUGING

Project Name: NASB - Brunswick LTMP	Project No: 29600.47	Date: 3/18/95
Weather/Temperature: N. breeze / overcast / clearing		
EA Personnel: MES, BDM	Equipment: OVA / PID	

Well No.	Labeled/ Capped	Well Locked	VOCs Concentration (ppm) Air Ambient	VOCs Concentration (ppm) Well Mouth	Casing/Seal Condition	Protective Casing Elevation (ft)	PVC Casing Elevation (ft)	Depth to Water (ft)	Measured Well Depth (ft)	Water Table Elevation (ft)
(a) P117										
P112	Y/Y	Y			Frozen	* None	~~34~~ 3.25	11.01	16.41	
P111	Y/N	N			Frozen	none	3.30	3.22		
P103	—	—	—	—	G	None	~~27½~~ 2.29	25.13	29.05	
P106	Y/Y	Y	—	—	G	2.95	3.05	7.93	71.06	
P105	Y/Y	Y	—	—	G	2.37	2.12	8.49	70.35	
P107	— —	—			Frozen	None	~~37½~~ 3.12	3.15		
P104	Y/Y	Y			Frozen	None	~~34½~~ 2.62	2.82		

NOTE: All measurements in feet mean sea level (MSL).

(a) not located

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EA ENGINEERING, SCIENCE, AND TECHNOLOGY, INC.

FIELD RECORD OF WELL GAUGING

Project Name: Brunswick NASBLTMP	Project No: 29600.47	Date: 3/30/95
Weather/Temperature: Overcast 35°		
EA Personnel: Rick Shackley, Tom Carey	Equipment: QED, Tape measure	

Well No.	Labeled/ Capped	Well Locked	VOCs Concentration (ppm)		Casing/Seal Condition	Protective Casing Elevation (ft)	PVC Casing Elevation (ft)	Depth to Water (ft)	Measured Well Depth (ft)	Water Table Elevation (ft)
			Air Ambient	Well Mouth						
MW23IA	yes/no	yes	N/A *	N/A	good	32.00''	34.00''	20.40	62.42	
MW23IB	yes/no	yes	⊥	⊥	good	37.00''	39.90''	24.37	57.86	

NOTE: All measurements in feet mean sea level (MSL).

* no concentrations were taken because the OVA was malfunctioning.

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Appendix B.2

Field Record of Well Gauging, Purging, and Sampling Forms

EA

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

9510.R 0065
SN - A.

SITE NAME: BN-01-EP-MW 302 A
WELL I.D.: MW 302 A
WELL CONDITION: good

PROJECT NUMBER: 29600047
WELL LOCK: 107A
WEATHER: sunny 250

GAUGE DATE: 3/28/95
SOUNDING METHOD: 2E.D
STICK UP/DOWN (ft):

GAUGE TIME: 1210
MEASUREMENT REF: T.O.P.
WELL DIAMETER (in.): 2"

PURGE DATE: 3/28/95
PURGE METHOD: 2" sub - 2 hos
AMBIENT AIR VOCs (ppm) 0

PURGE TIME: 1215 - 1235
FIELD TECHNICIAN: MCS TRC
WELL MOUTH VOCs (ppm): 0

WELL VOLUME

A. WELL DEPTH (ft): 31.09
B. DEPTH TO WATER (ft): 16.00
C. LIQUID DEPTH (ft) (A-B): 15.09

D. WELL VOLUME/FT: .1625
E. WELL VOLUME (gal) (C*D): 2.45
F. THREE WELL VOLUMES (gal) (E*3): 7.36
27.81 liters

	BEGINNING	Number of Well Volumes Purged				
		1	2	3	4	5
TIME (min)	1215	1225	1230			
DEPTH TO WATER (ft)	16.0	16.3	16.4			
PURGE RATE (l/min)	.5	.5	.5			
VOLUME PURGED (gal)	5	5	7.5			
pH	6.50	6.47	6.49			
TEMPERATURE (C)	10.5	10.0	10.0			
CONDUCTIVITY (µmhos/cm)	361	321	348			
DISSOLVED OXYGEN (µg/L)	2.1	2.6	2.5			
eh (mv)						
TURBIDITY (NTU)	18.4	10.9	6.4			

TOTAL QUANTITY OF WATER REMOVED (gal): 10

SAMPLERS: TRC, MCS
SAMPLING TIME (START/END): 1235
SAMPLING DATE: 3/28/95
DECONTAMINATION FLUIDS USED: none
SAMPLE TYPE: grab
SAMPLE PRESERVATIVES: HCl
SAMPLE BOTTLE IDs: BN-01-EP-MW 302 A
SAMPLE PARAMETERS: VOA

COMMENTS AND OBSERVATIONS:

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EA

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SN- A.9501.0011

SITE NAME:	BN-01-EP-MW 202B	PROJECT NUMBER:	2960047
WELL I.D.:	MW 202 B	WELL LOCK:	107A
WELL CONDITION:	good	WEATHER:	clear 35°
GAUGE DATE:	3/28/95	GAUGE TIME:	1205
SOUNDING METHOD:	QED	MEASUREMENT REF:	T.O.P.
STICK UP/DOWN (ft):		WELL DIAMETER (in.):	2"
PURGE DATE:	3/28/95	PURGE TIME:	1610 - 1625
PURGE METHOD:	2" sub submersible	FIELD TECHNICIAN:	CC / TC
AMBIENT AIR VOCs (ppm)	0	WELL MOUTH VOCs (ppm):	0

WELL VOLUME

A. WELL DEPTH (ft):	17.93	D. WELL VOLUME/FT:	.1625
B. DEPTH TO WATER (ft):	16.55	E. WELL VOLUME (gal) (C*D):	.22
C. LIQUID DEPTH (ft) (A-B):	1.38	F. THREE WELL VOLUMES (gal) (E*3):	.67

2.54 liters

	BEGINNING	Number of Well Volumes Purged				
		1	2	3	4	5
TIME (min)	1625					
DEPTH TO WATER (ft)	16.40					
PURGE RATE (l/min)	NA					
VOLUME PURGED (gal)	1 Liter					
pH	6.94					
TEMPERATURE (C)	6.9					
CONDUCTIVITY (µmhos/cm)	342					
DISSOLVED OXYGEN (µg/L)	3.2					
eh (mv)						
TURBIDITY (NTU)	258					

TOTAL QUANTITY OF WATER REMOVED (gal): 1 Liter

SAMPLERS: CC / TC SAMPLING TIME (START/END) : 1610 1630

SAMPLING DATE: 3/30/95 DECONTAMINATION FLUIDS USED: DI water

SAMPLE TYPE: Grab Bailer SAMPLE PRESERVATIVES: HCL

SAMPLE BOTTLE IDs: BN-01-EPMW 202B

SAMPLE PARAMETERS: VOA

COMMENTS AND OBSERVATIONS: no water came out of hose after purge on for 5 min. unable to get small QED down to find out water level. Sample was taken with a disposable bailer and pump was reinstalled

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FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SN A 9501.0030

SITE NAME:	BN-01-EP-MW-203	PROJECT NUMBER:	29600.47
WELL I.D.:	MW 203	WELL LOCK:	1072
WELL CONDITION:	good	WEATHER:	clear 35°
GAUGE DATE:	3/25/95	GAUGE TIME:	1045
SOUNDING METHOD:	QED	MEASUREMENT REF:	T.O.C.
STICK UP/DOWN (ft):		WELL DIAMETER (in.):	2"
PURGE DATE:	3/26/95	PURGE TIME:	1055 - 1130
PURGE METHOD:	2" SUB [illegible]	FIELD TECHNICIAN:	TSC, MRS
AMBIENT AIR VOCs (ppm)	0	WELL MOUTH VOCs (ppm):	0

WELL VOLUME

A. WELL DEPTH (ft):	42.04	D. WELL VOLUME/FT:	.1625
B. DEPTH TO WATER (ft):	30.20	E. WELL VOLUME (gal) (C*D):	1.92
C. LIQUID DEPTH (ft) (A-B):	11.84	F. THREE WELL VOLUMES (gal) (E*3):	5.77

21.52 liters

	BEGINNING	Number of Well Volumes Purged				
		1	2	3	4	5
TIME (min)	1055	1115	1120	1125		
DEPTH TO WATER (ft)	30.20	30.25	30.27	30.26		
PURGE RATE (l/min)	.4	.4	.4	.4		
VOLUME PURGED (gal)	4	4	10	12		
pH	6.54	6.31	6.28	6.23		
TEMPERATURE (C)	11.5	13.1	13.0	13.0		
CONDUCTIVITY (µmhos/cm)	192	189	200	202		
DISSOLVED OXYGEN (µg/L)	3.9	3.5	3.4	3.2		
eh (mv)						
TURBIDITY (NTU)	271	52.9	4.29	2.23		

TOTAL QUANTITY OF WATER REMOVED (gal): 14

SAMPLERS:	MRS, TSC	SAMPLING TIME (START/END) :	1130
SAMPLING DATE:	3/25/95	DECONTAMINATION FLUIDS USED:	none
SAMPLE TYPE:	Gw's	SAMPLE PRESERVATIVES:	HCl

SAMPLE BOTTLE IDs: BN-01-EP-MW-203

SAMPLE PARAMETERS: 8021

COMMENTS AND OBSERVATIONS:

EA

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SN A.954.0076

SITE NAME:	BN-01-EP-MW 204	PROJECT NUMBER:	296007
WELL I.D.:	MW-204	WELL LOCK:	107A
WELL CONDITION:	good	WEATHER:	clear 40°
GAUGE DATE:	3/28/95	GAUGE TIME:	0940
SOUNDING METHOD:	QED	MEASUREMENT REF:	T.O.P.
STICK UP/DOWN (ft):		WELL DIAMETER (in.):	2"
PURGE DATE:	3/28/95	PURGE TIME:	0950-1015
PURGE METHOD:	2" con [illegible]	FIELD TECHNICIAN:	MRS, TRC
AMBIENT AIR VOCs (ppm)	0	WELL MOUTH VOCs (ppm):	10

WELL VOLUME

A. WELL DEPTH (ft):	37.18	D. WELL VOLUME/FT:	.1625
B. DEPTH TO WATER (ft):	29.16	E. WELL VOLUME (gal) (C*D):	1.30
C. LIQUID DEPTH (ft) (A-B):	8.02	F. THREE WELL VOLUMES (gal) (E*3):	3.91

14.75 liter

	BEGINNING	Number of Well Volumes Purged				
		1	2	3	4	5
TIME (min)	0950	1005	1010			
DEPTH TO WATER (ft)	29.16	29.19	29.17			
PURGE RATE (l/min)	5	5	5			
VOLUME PURGED (gal)	5	7.5	10			
pH	7.25	6.20	6.60			
TEMPERATURE (C)	7.2	8.0	9.0			
CONDUCTIVITY (µmhos/cm)	39	39	39			
DISSOLVED OXYGEN (µg/L)	7.6	6.53	7.10			
eh (mv)						
TURBIDITY (NTU)	4.06	.56	.62			

TOTAL QUANTITY OF WATER REMOVED (gal): 12.5

SAMPLERS:	TRC, MRS	SAMPLING TIME (START/END) :	1015
SAMPLING DATE:	3/28/95	DECONTAMINATION FLUIDS USED:	none
SAMPLE TYPE:	Grab	SAMPLE PRESERVATIVES:	HCl

SAMPLE BOTTLE IDs: BN-01-EP-MW-204

SAMPLE PARAMETERS: VOA

COMMENTS AND OBSERVATIONS: MS/MSD were also collected

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FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

S.N- 9510R 0009

SITE NAME: BN-01-EP-MW-210B
PROJECT NUMBER: 2660047
WELL I.D.: MW 210 B
WELL LOCK: 107A
WELL CONDITION: good
WEATHER: clear, 40°

GAUGE DATE: 3/28/95
GAUGE TIME: 1640-1745
SOUNDING METHOD: QED
MEASUREMENT REF: T.O.P.
STICK UP/DOWN (ft):
WELL DIAMETER (in.): 2"

PURGE DATE: 3/28/95
PURGE TIME: 1645-1745
PURGE METHOD: 2" sub grundfos
FIELD TECHNICIAN: BDA, MRS, TCR
AMBIENT AIR VOCs (ppm) 0
WELL MOUTH VOCs (ppm): 0

WELL VOLUME

A. WELL DEPTH (ft): 26.40
B. DEPTH TO WATER (ft): 7.56
C. LIQUID DEPTH (ft) (A-B): 18.84
D. WELL VOLUME/FT: .1625
E. WELL VOLUME (gal) (C*D): 3.06
F. THREE WELL VOLUMES (gal) (E*3): 9.18

34.72 liters

	BEGINNING	Number of Well Volumes Purged				
		1	2	3	4	5
TIME (min)	1645	1700	1715	1725	1740	
DEPTH TO WATER (ft)	7.56	7.60	7.61	7.60	7.63	
PURGE RATE (l/min)	.4	.4	.4	.4	.4	
VOLUME PURGED (gal)	.4	6	12	16	22	
pH	6.11	6.11	6.11	6.18	6.21	
TEMPERATURE (C)	7.2	8.5	8.8	8.2	8.1	
CONDUCTIVITY (µmhos/cm)	160	180	188	181	183	
DISSOLVED OXYGEN (ug/L)	3.1	2.4	2.2	3.2	2.1	
eh (mv)						
TURBIDITY (NTU)	204	87.8	21.9	15.5	10.0	

TOTAL QUANTITY OF WATER REMOVED (gal): 24

SAMPLERS: TCR, MRS
SAMPLING TIME (START/END): 1745
SAMPLING DATE: 3/28/95
DECONTAMINATION FLUIDS USED: none
SAMPLE TYPE: Grab
SAMPLE PRESERVATIVES: HCl
SAMPLE BOTTLE IDs: BN-01-EP-MW-210B
SAMPLE PARAMETERS: VOA

COMMENTS AND OBSERVATIONS:

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FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SN 9509R.0125

SITE NAME:	BN-01-EP-MW 216B	PROJECT NUMBER:	2960047
WELL I.D.:	MW216B	WELL LOCK:	107A
WELL CONDITION:	good	WEATHER:	clear, 40°
GAUGE DATE:	3/28/95	GAUGE TIME:	
SOUNDING METHOD:	QED	MEASUREMENT REF:	T.O.P.
STICK UP/DOWN (ft):		WELL DIAMETER (in.):	2"
PURGE DATE:	3/28/95	PURGE TIME:	1715-1751
PURGE METHOD:	2" PVC screenings	FIELD TECHNICIAN:	BDA, MRS, TCR
AMBIENT AIR VOCs (ppm)	0	WELL MOUTH VOCs (ppm):	0

WELL VOLUME

A. WELL DEPTH (ft):	22.54	D. WELL VOLUME/FT:	.1625
B. DEPTH TO WATER (ft):	13.95	E. WELL VOLUME (gal) (C*D):	1.40
C. LIQUID DEPTH (ft) (A-B):	8.59	F. THREE WELL VOLUMES (gal) (E*3):	~~0.08~~ 4.19

15.83 liters

	BEGINNING	Number of Well Volumes Purged				
		1	2	3	4	5
TIME (min)	1715	1723	1731			
DEPTH TO WATER (ft)	13.95	13.98	13.97			
PURGE RATE (l/min)	.5	.5	.5			
VOLUME PURGED (gal)	.5	1.5	2.5			
pH	6.14	6.24	6.32			
TEMPERATURE (C)	8.8	10.3	13.5			
CONDUCTIVITY (µmhos/cm)	.312	.483	.60			
DISSOLVED OXYGEN (µg/L)	2.83	2.83	3.31			
eh (mv)						
TURBIDITY (NTU)	18	18	9			

TOTAL QUANTITY OF WATER REMOVED (gal): 2.5

SAMPLERS:	BDA	SAMPLING TIME (START/END):	1751
SAMPLING DATE:	3/28/95	DECONTAMINATION FLUIDS USED:	none
SAMPLE TYPE:	Grab	SAMPLE PRESERVATIVES:	HCl

SAMPLE BOTTLE IDs: BN-01-EP-MW 216B

SAMPLE PARAMETERS: VOA

COMMENTS AND OBSERVATIONS:

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EA

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SN-9510R.0118

SITE NAME:	BN-01-EP-MW 317A	PROJECT NUMBER:	29600.47
WELL I.D.:	MW 317A	WELL LOCK:	107.1
WELL CONDITION:	good	WEATHER:	clear 40°
GAUGE DATE:	3/28/95	GAUGE TIME:	1415
SOUNDING METHOD:	0.50	MEASUREMENT REF:	T.O.P.
STICK UP/DOWN (ft):		WELL DIAMETER (in.):	2"
PURGE DATE:	3/28/95	PURGE TIME:	1430 - 1525
PURGE METHOD:	2" [illegible]	FIELD TECHNICIAN:	TRC, MRS 3D2
AMBIENT AIR VOCs (ppm)	0	WELL MOUTH VOCs (ppm):	0

WELL VOLUME

A. WELL DEPTH (ft):	40.93	D. WELL VOLUME/FT:	.1625
B. DEPTH TO WATER (ft):	14.32	E. WELL VOLUME (gal) (C*D):	4.32
C. LIQUID DEPTH (ft) (A-B):	26.61	F. THREE WELL VOLUMES (gal) (E*3):	12.97

49.04 liters

	BEGINNING	Number of Well Volumes Purged				
		1	2	3	4	5
TIME (min)	1430	1445	1455	1505	1515	1520
DEPTH TO WATER (ft)	14.32	14.56	15.20	15.23	15.25	15.27
PURGE RATE (l/min)	.5	.5	.5	.5	.5	.5
VOLUME PURGED (gal)	5	7.5	12.5	17.5	22.5	25
pH	6.52	6.61	6.62	6.68	6.69	6.73
TEMPERATURE (C)	11	10.5	11.0	12.1	11.5	11.1
CONDUCTIVITY (µmhos/cm)	332	319	322	309	291	305
DISSOLVED OXYGEN (µg/L)	3.0	3.3	3.1	3.1	3.1	2.9
eh (mv)						
TURBIDITY (NTU)	NA	273	159	29.5	14.7	9.06

TOTAL QUANTITY OF WATER REMOVED (gal): 27.5

SAMPLERS:	MRS TRC	SAMPLING TIME (START/END) :	1525
SAMPLING DATE:	3/28/95	DECONTAMINATION FLUIDS USED:	none
SAMPLE TYPE:	grab	SAMPLE PRESERVATIVES:	HCl

SAMPLE BOTTLE IDs: BN-01-EP-MW 317A

SAMPLE PARAMETERS: VOA

COMMENTS AND OBSERVATIONS:

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FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SN- A.9501.0030

SITE NAME:	BN-01-EP-MW-217B	PROJECT NUMBER:	2960047
WELL I.D.:	MW 217 B	WELL LOCK:	107A
WELL CONDITION:	good	WEATHER:	clear, 40°
GAUGE DATE:	3/28/95	GAUGE TIME:	
SOUNDING METHOD:	GED	MEASUREMENT REF:	T.O.P.
STICK UP/DOWN (ft):		WELL DIAMETER (in.):	2"
PURGE DATE:	3/28/95	PURGE TIME:	1417 1422
PURGE METHOD:	3" sub gravel bag	FIELD TECHNICIAN:	BDA, TRC, MGS
AMBIENT AIR VOCs (ppm)	0	WELL MOUTH VOCs (ppm):	100

WELL VOLUME

A. WELL DEPTH (ft):	27.20	D. WELL VOLUME/FT:	.1625
B. DEPTH TO WATER (ft):	13.55	E. WELL VOLUME (gal) (C*D):	2.22
C. LIQUID DEPTH (ft) (A-B):	13.65	F. THREE WELL VOLUMES (gal) (E*3):	6.65

25.15 liters

	BEGINNING	Number of Well Volumes Purged				
		1	2	3	4	5
TIME (min)	1435	1442	1449	1500		
DEPTH TO WATER (ft)	13.55	NA	NA	NA		
PURGE RATE (l/min)	.4 l/m	.3 l/m	.3 l/m	.4 l/m		
VOLUME PURGED (gal)	.200	1.0	1.5	2.5		
pH	6.36	6.34	6.37	6.38		
TEMPERATURE (C)	10.9	11.9	12.1	11.6		
CONDUCTIVITY (μmhos/cm)	.80	.80	.81	.86		
DISSOLVED OXYGEN (μg/L)	2.04	2.15	2.69	2.18		
eh (mv)						
TURBIDITY (NTU)	80	62	33	28		

TOTAL QUANTITY OF WATER REMOVED (gal): 2.5

SAMPLERS:	BDA	SAMPLING TIME (START/END) :	1505
SAMPLING DATE:	3/28/95	DECONTAMINATION FLUIDS USED:	none
SAMPLE TYPE:	Grab	SAMPLE PRESERVATIVES:	HCl
SAMPLE BOTTLE IDs:			
SAMPLE PARAMETERS:	VOA		

COMMENTS AND OBSERVATIONS: purged down ~~sample~~ after 5 min, waited 15 min, then collected sample

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9510R - C074

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: BN-01-EP-MW-218
PROJECT NUMBER: 29600.47
WELL I.D.: MW218
WELL LOCK: 1071
WELL CONDITION: GOOD
WEATHER: Clear/slight breeze

GAUGE DATE: 3/28/95
GAUGE TIME: ~~0800~~ 1120
SOUNDING METHOD: QED
MEASUREMENT REF: TOP
STICK UP/DOWN (ft): 2.14
WELL DIAMETER (in.): 2"

PURGE DATE: 3/28/95
PURGE TIME: 1128
PURGE METHOD: sub 2" dedicated grundfos
FIELD TECHNICIAN: BA
AMBIENT AIR VOCs (ppm) 0
WELL MOUTH VOCs (ppm): 0

WELL VOLUME

A. WELL DEPTH (ft): 53.54
B. DEPTH TO WATER (ft): 32.95
C. LIQUID DEPTH (ft) (A-B): 20.59
D. WELL VOLUME/FT: .1625
E. WELL VOLUME (gal) (C*D): 3.34
F. THREE WELL VOLUMES (gal) (E*3): 10.03
37.94 L

	BEGINNING	Number of Well Volumes Purged				
		1	2	3	4	5
TIME (min)	1120	1130	1140	1150	1200	
DEPTH TO WATER (ft)	32.95	32.96	32.90	32.85	32.80	
PURGE RATE (l/min)	.4 L/min	.4 L/m	.4 L/m	.4 L/m	.4 L/m	
VOLUME PURGED (gal)	.4	4 L	8 L	12 L	16 L	
pH	8.24	8.05	7.85	7.95	8.05	
TEMPERATURE (C)	9.7°C	10.6	11.9	13.2	13.5	
CONDUCTIVITY (~~µmhos/cm~~ mS/cm)	1.38	1.25	1.04	.97	1.02	
DISSOLVED OXYGEN (µg/L)	2.61	3.55	3.32	4.33	4.25	
eh (mv)						
TURBIDITY (NTU)	11	13	21	11	10	

TOTAL QUANTITY OF WATER REMOVED (gal): 16 L

SAMPLERS: BDA
SAMPLING TIME (START/END) : 1204
SAMPLING DATE: 3/28/95
DECONTAMINATION FLUIDS USED: None
SAMPLE TYPE: grn H_2O - grab
SAMPLE PRESERVATIVES: HCl
SAMPLE BOTTLE IDs: BN-01-EP-MW-218
SAMPLE PARAMETERS: VOCs
COMMENTS AND OBSERVATIONS: .4 L/min - Horiba U-10 Water Quality

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EA

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

A.9450.0090

SITE NAME:	Brunswick	PROJECT NUMBER:	29600.47
WELL I.D.:	MW219	WELL LOCK:	107A
WELL CONDITION:	good	WEATHER:	Clear
GAUGE DATE:	3/28/95	GAUGE TIME:	0955
SOUNDING METHOD:	QED	MEASUREMENT REF:	TOP
STICK UP/DOWN (ft):	2.	WELL DIAMETER (in.):	2"
PURGE DATE:	3/28/95	PURGE TIME:	1000 – 1100
PURGE METHOD:	2" Sub Grundfos	FIELD TECHNICIAN:	BDit
AMBIENT AIR VOCs (ppm)	0	WELL MOUTH VOCs (ppm):	0

WELL VOLUME

A. WELL DEPTH (ft):	71.82	D. WELL VOLUME/FT:	.1625
B. DEPTH TO WATER (ft):	28.84	E. WELL VOLUME (gal) (C*D):	6.98
C. LIQUID DEPTH (ft) (A-B):	42.98	F. THREE WELL VOLUMES (gal) (E*3):	20.95
			79.19 L 3.7

	BEGINNING	Number of Well Volumes Purged				
		1	2	3	4	5
TIME (min)	1005	1010	1020	1040		
DEPTH TO WATER (ft)	~~28.84~~	28.84	28.80	28.8		
PURGE RATE (l/min)	.4 L/min	.4 L/m	.4 L/m	.4 L/m		
VOLUME PURGED (gal)	.4	2 L	12 L	24 L		
pH	6.42	6.38	6.36	6.39		
TEMPERATURE (C)	8.7	9.3	9.6	10		
CONDUCTIVITY (mS/cm) (µmhos/cm)	.171	.124	.121	.122		
DISSOLVED OXYGEN (ug/L)	7.8	8.1	7.9	7.8		
eh (mv)						
TURBIDITY (NTU)	25	8	2	2		

TOTAL QUANTITY OF WATER REMOVED (gal): 24 L

SAMPLERS:	BDit	SAMPLING TIME (START/END) :	1000 / 1100
SAMPLING DATE:	3/28/95	DECONTAMINATION FLUIDS USED:	H 1
SAMPLE TYPE:	ground water - grab	SAMPLE PRESERVATIVES:	HCL

SAMPLE BOTTLE IDs: BN-01-EP-MW 219 and MW219 DUP

SAMPLE PARAMETERS: VOCs

COMMENTS AND OBSERVATIONS: Duplicate sample collected

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SN-A.9501.0008

SITE NAME:	BN-01-EP-MW 320	PROJECT NUMBER:	2960097
WELL I.D.:	MW 320	WELL LOCK:	107A
WELL CONDITION:	good	WEATHER:	clear, 40
GAUGE DATE:	3/28/95	GAUGE TIME:	1605
SOUNDING METHOD:	QED	MEASUREMENT REF:	TOP
STICK UP/DOWN (ft):		WELL DIAMETER (in.):	2"
PURGE DATE:	3/28/95	PURGE TIME:	1610 - 1640
PURGE METHOD:	2" sub pump/bailer	FIELD TECHNICIAN:	TRC MRS
AMBIENT AIR VOCs (ppm)	0	WELL MOUTH VOCs (ppm):	0

WELL VOLUME

A. WELL DEPTH (ft):	39.01	D. WELL VOLUME/FT:	.1625
B. DEPTH TO WATER (ft):	9.50	E. WELL VOLUME (gal) (C*D):	4.80
C. LIQUID DEPTH (ft) (A-B):	29.51	F. THREE WELL VOLUMES (gal) (E*3):	14.39

54.38 liters

	BEGINNING	Number of Well Volumes Purged				
		1	2	3	4	5
TIME (min)	1610	1625	1635			
DEPTH TO WATER (ft)	9.50	9.70	9.80			
PURGE RATE (l/min)	.5	5	.5			
VOLUME PURGED (gal)	5	7.5	12.5			
pH	6.83	6.72	6.67			
TEMPERATURE (C)	9.1	9.8	10.0			
CONDUCTIVITY (µmhos/cm)	162	143	143			
DISSOLVED OXYGEN (µg/L)	3.4	3.4	3.5			
eh (mv)						
TURBIDITY (NTU)	37.1	16.8	6.27			

TOTAL QUANTITY OF WATER REMOVED (gal): 15

SAMPLERS:	MRS, TRC	SAMPLING TIME (START/END) :	1640
SAMPLING DATE:	3/28/95	DECONTAMINATION FLUIDS USED:	none
SAMPLE TYPE:	grab	SAMPLE PRESERVATIVES:	HCl

SAMPLE BOTTLE IDs: BN-01 EP MW 320

SAMPLE PARAMETERS: VOA

COMMENTS AND OBSERVATIONS:

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EA

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

A9445.0016

SITE NAME:	BN-01-EP-MW 232A	PROJECT NUMBER:	2960047
WELL I.D.:	MW 232 A	WELL LOCK:	107 A
WELL CONDITION:	Good	WEATHER:	clear, 40°
GAUGE DATE:	3/28/95	GAUGE TIME:	1530
SOUNDING METHOD:	QED	MEASUREMENT REF:	T.O.P.
STICK UP/DOWN (ft):	2.42	WELL DIAMETER (in.):	2"
PURGE DATE:	3/28/95	PURGE TIME:	1550
PURGE METHOD:	2" sub grundfos	FIELD TECHNICIAN:	BDA
AMBIENT AIR VOCs (ppm)	0	WELL MOUTH VOCs (ppm):	0

WELL VOLUME

A. WELL DEPTH (ft):	38.93	D. WELL VOLUME/FT:	.1625
B. DEPTH TO WATER (ft):	11.56	E. WELL VOLUME (gal) (C*D):	4.45
C. LIQUID DEPTH (ft) (A-B):	27.37	F. THREE WELL VOLUMES (gal) (E*3):	13.34

50.44 liters

	BEGINNING	Number of Well Volumes Purged				
		1	2	3	4	5
TIME (min)	1550	1556	1601	1612		
DEPTH TO WATER (ft)	11.56	11.50	11.52	11.52		
PURGE RATE (l/min)	.5 l/m	.5 l/m	.5 l/m	.5 l/m		
VOLUME PURGED (gal)	.5	2.0	2.5	7.5		
pH	6.54	6.52	6.46	6.43		
TEMPERATURE (C)	9.9	10.9	11.3	11.7		
CONDUCTIVITY (μmhos/cm)	.248	.249	.253	.250		
DISSOLVED OXYGEN (μg/L)	5.02	4.43	4.33	3.38		
eh (mv)						
TURBIDITY (NTU)	35	27	10	3		

TOTAL QUANTITY OF WATER REMOVED (gal): 7.5

SAMPLERS:	BDA	SAMPLING TIME (START/END) :	1615
SAMPLING DATE:	3/28/95	DECONTAMINATION FLUIDS USED:	None
SAMPLE TYPE:	Gr water - Grab	SAMPLE PRESERVATIVES:	HCL

SAMPLE BOTTLE IDs: BN-01-EP-MW 232A

SAMPLE PARAMETERS: VOCs

COMMENTS AND OBSERVATIONS:

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FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SN- 9510R.0108

SITE NAME:	BN-01-EP-MW 234	PROJECT NUMBER:	2960047
WELL I.D.:	MW 234	WELL LOCK:	107A
WELL CONDITION:	good	WEATHER:	clear, 40°
GAUGE DATE:	3/28/95	GAUGE TIME:	1542
SOUNDING METHOD:	QED	MEASUREMENT REF:	T.O.P.
STICK UP/DOWN (ft):		WELL DIAMETER (in.):	2"
PURGE DATE:	3/28/95	PURGE TIME:	
PURGE METHOD:	2" sub grundfos	FIELD TECHNICIAN:	MRS, QTCR
AMBIENT AIR VOCs (ppm)	0	WELL MOUTH VOCs (ppm):	18

WELL VOLUME

A. WELL DEPTH (ft):	23.44	D. WELL VOLUME/FT:	.1625
B. DEPTH TO WATER (ft):	8.99	E. WELL VOLUME (gal) (C*D):	2.35
C. LIQUID DEPTH (ft) (A-B):	14.45	F. THREE WELL VOLUMES (gal) (E*3):	7.04

26.63 liters

	BEGINNING	Number of Well Volumes Purged				
		1	2	3	4	5
TIME (min)						
DEPTH TO WATER (ft)						
PURGE RATE (l/min)						
VOLUME PURGED (gal)						
pH						
TEMPERATURE (C)						
CONDUCTIVITY (μmhos/cm)						
DISSOLVED OXYGEN (μg/L)						
eh (mv)						
TURBIDITY (NTU)						

TOTAL QUANTITY OF WATER REMOVED (gal): _____

SAMPLERS: _____ SAMPLING TIME (START/END) : _____

SAMPLING DATE: _____ DECONTAMINATION FLUIDS USED: _____

SAMPLE TYPE: _____ SAMPLE PRESERVATIVES: _____

SAMPLE BOTTLE IDs: _____

SAMPLE PARAMETERS: _____

COMMENTS AND OBSERVATIONS: steel casing bent & pump wouldn't fit in well

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING Pump Ser #: 9510.A.0196

SITE NAME:	BN-01-EP-MW-105B	PROJECT NUMBER:	29600.47
WELL I.D.:	MW-105B	WELL LOCK:	107A
WELL CONDITION:	good	WEATHER:	Cloudy, 30°F
GAUGE DATE:	3/24/95	GAUGE TIME:	0940
SOUNDING METHOD:	QED	MEASUREMENT REF:	T.O.P.
STICK UP/~~DOWN~~ (ft):	3.56	WELL DIAMETER (in.):	2"
PURGE DATE:	3/24/95	PURGE TIME:	0950-1015
PURGE METHOD:	2" grundfos	FIELD TECHNICIAN:	MRS + CJV
AMBIENT AIR VOCs (ppm)	0	WELL MOUTH VOCs (ppm):	0

WELL VOLUME

A. WELL DEPTH (ft):	22.91	D. WELL VOLUME/FT:	.1625
B. DEPTH TO WATER (ft):	7.14	E. WELL VOLUME (gal) (C*D):	2.56
C. LIQUID DEPTH (ft) (A-B):	15.77	F. THREE WELL VOLUMES (gal) (E*3):	7.69

	BEGINNING	Number of Well Volumes Purged				
		1	2	3	4	5
TIME (min)	0950	1000	1010			
DEPTH TO WATER (ft)	7.14	7.12	7.16			
PURGE RATE (l/min)	0.6	.6	.6			
VOLUME PURGED (gal)	.6	6	12			
pH	6.72	6.65	6.70			
TEMPERATURE (C)	5.1	5.9	6			
CONDUCTIVITY (μmhos/cm)	21	20	21			
DISSOLVED OXYGEN (μg/L)	8.3	6.75	8.4			
eh (mv)						
TURBIDITY (NTU)	3.65	1.25	0.82			

TOTAL QUANTITY OF WATER REMOVED (gal): 15

SAMPLERS:	CJV + MRS	SAMPLING TIME (START/END) :	1015
SAMPLING DATE:	3/24/95	DECONTAMINATION FLUIDS USED:	none
SAMPLE TYPE:	~~[illegible]~~ Grab	SAMPLE PRESERVATIVES:	HCl
SAMPLE BOTTLE IDs:	BN-01-EP-MW 105B		
SAMPLE PARAMETERS:	VOA		

COMMENTS AND OBSERVATIONS:

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FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING Pump Serial #: A.9501.0025

SITE NAME:	BN-01EPMW-106	PROJECT NUMBER:	29600.47.7200
WELL I.D.:	MW-106	WELL LOCK:	107A
WELL CONDITION:	Good	WEATHER:	Cloudy, 45°F
GAUGE DATE:	3/22/95	GAUGE TIME:	1430
SOUNDING METHOD:	QED	MEASUREMENT REF:	TOC
STICK UP/DOWN (ft):	3.48	WELL DIAMETER (in.):	2"
PURGE DATE:	3/22/95	PURGE TIME:	1440-1515
PURGE METHOD:	Grundfos	FIELD TECHNICIAN:	MRS, CJV
AMBIENT AIR VOCs (ppm)	0	WELL MOUTH VOCs (ppm):	0

WELL VOLUME

A. WELL DEPTH (ft):	37.27	D. WELL VOLUME/FT:	.1625
B. DEPTH TO WATER (ft):	19.12	E. WELL VOLUME (gal) (C*D):	2.95
C. LIQUID DEPTH (ft) (A-B):	18.15	F. THREE WELL VOLUMES (gal) (E*3):	8.85

33.5 liters

	BEGINNING	Number of Well Volumes Purged				
		1	2	3	4	5
TIME (min)	1440	1500	1505	1510		
DEPTH TO WATER (ft)	19.12	19.12	19.12	19.12		
PURGE RATE (l/min)	.5	.5	.5	.5		
VOLUME PURGED (gal)	5	10	12.5	15		
pH	6.72	6.66	6.34	6.70		
TEMPERATURE (C)	9	8.9	8.9	8.8		
CONDUCTIVITY (µmhos/cm)	62	62	60	62		
DISSOLVED OXYGEN (µg/L)	6.5	6.35	6.5	6.3		
eh (mv)						
TURBIDITY (NTU)	5.22	1.67	1.08	1.01		

TOTAL QUANTITY OF WATER REMOVED (gal): 17.5

SAMPLERS:	CJV / MRS	SAMPLING TIME (START/END) :	1515
SAMPLING DATE:	3/22/95	DECONTAMINATION FLUIDS USED:	none
SAMPLE TYPE:	grab	SAMPLE PRESERVATIVES:	HCl

SAMPLE BOTTLE IDs: BN-01-EP-MW-106

SAMPLE PARAMETERS: VOA

COMMENTS AND OBSERVATIONS:

EA

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

Pump Ser #: A.9503.0010

SITE NAME:	BN-01-EP-MW-205	PROJECT NUMBER:	29600.47
WELL I.D.:	MW 205	WELL LOCK:	107A
WELL CONDITION:	good	WEATHER:	Snow, 25°F
GAUGE DATE:	3/24/95	GAUGE TIME:	0805
SOUNDING METHOD:	QED	MEASUREMENT REF:	T.O.P.
STICK UP/DOWN (ft):	1.85	WELL DIAMETER (in.):	2"
PURGE DATE:	3/24/95	PURGE TIME:	0815 - 0915 ~~0825~~
PURGE METHOD:	2" grundfos	FIELD TECHNICIAN:	MRS + CJV
AMBIENT AIR VOCs (ppm)	0	WELL MOUTH VOCs (ppm):	0

WELL VOLUME

A. WELL DEPTH (ft):	78.77	D. WELL VOLUME/FT:	.1625
B. DEPTH TO WATER (ft):	21.38	E. WELL VOLUME (gal) (C*D):	9.53
C. LIQUID DEPTH (ft) (A-B):	57.39	F. THREE WELL VOLUMES (gal) (E*3):	27.98

	BEGINNING	Number of Well Volumes Purged				
		1	2	3	4	5
TIME (min)	0815	0830	0845	0910		
DEPTH TO WATER (ft)	21.38					
PURGE RATE (l/min)	.5	.5	.5	.5		
VOLUME PURGED (gal)	.5	7.5	15	27.5		
pH	11.61	9.38	8.59	8.68		
TEMPERATURE (C)	5	5.7	6.5	6.3		
CONDUCTIVITY (μmhos/cm)	250	115	120	120		
DISSOLVED OXYGEN (μg/L)	2.4	2.3	3.1	2.5		
eh (mv)						
TURBIDITY (NTU)	89.1	83.5	35.4	8.73		

TOTAL QUANTITY OF WATER REMOVED (gal): 30

SAMPLERS:	CJV + MRS	SAMPLING TIME (START/END):	0915
SAMPLING DATE:	3/24/95	DECONTAMINATION FLUIDS USED:	None
SAMPLE TYPE:	~~VOA~~ Grab	SAMPLE PRESERVATIVES:	HCl
SAMPLE BOTTLE IDs:	BN-01-EP-MW-205		
SAMPLE PARAMETERS:	VOA		

COMMENTS AND OBSERVATIONS:

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FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

Pump Serial #: 9510A.0145

SITE NAME:	BN-01-EP-MW-206A	PROJECT NUMBER:	29600.47
WELL I.D.:	MW-206A	WELL LOCK:	107A
WELL CONDITION:	good	WEATHER:	overcast
GAUGE DATE:	3/23/95	GAUGE TIME:	0925
SOUNDING METHOD:	GED	MEASUREMENT REF:	T.O.P
STICK UP/~~DOWN~~ (ft):	2.25	WELL DIAMETER (in.):	2"
PURGE DATE:	3/23/95	PURGE TIME:	0950-1020
PURGE METHOD:	Grafos	FIELD TECHNICIAN:	MRS + CJV
AMBIENT AIR VOCs (ppm)	0	WELL MOUTH VOCs (ppm):	0

WELL VOLUME

A. WELL DEPTH (ft):	74.36	D. WELL VOLUME/FT:	.1635
B. DEPTH TO WATER (ft):	15.35	E. WELL VOLUME (gal) (C*D):	9.59
C. LIQUID DEPTH (ft) (A-B):	59.01	F. THREE WELL VOLUMES (gal) (E*3):	28.8 gal

108.7 liters

	BEGINNING	Number of Well Volumes Purged				
		1	2	3	4	5
TIME (min)	0950	1000	1015			
DEPTH TO WATER (ft)	15.35	15.35	15.35			
PURGE RATE (l/min)	0.4	.4	.4			
VOLUME PURGED (gal)	4	4	6			
pH	6.81	7.18	7.48			
TEMPERATURE (C)	7.4	8.1	8			
CONDUCTIVITY (µmhos/cm)	71	72	76			
DISSOLVED OXYGEN (µg/L)	0.1	6.1	6.5			
eh (mv)						
TURBIDITY (NTU)	9.8	1.78	2.94			

TOTAL QUANTITY OF WATER REMOVED (gal): 8

SAMPLERS:	CJV + MRS	SAMPLING TIME (START/END):	1020
SAMPLING DATE:	3/23/95	DECONTAMINATION FLUIDS USED:	none
SAMPLE TYPE:	~~[illegible]~~ Grab	SAMPLE PRESERVATIVES:	HCl
SAMPLE BOTTLE IDs:	BN-01-EP-MW-206A		
SAMPLE PARAMETERS:	VOA		

COMMENTS AND OBSERVATIONS:

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING Pump #: A9501.0041

SITE NAME:	BN-01-EP-MW-206B	PROJECT NUMBER:	296 00.47
WELL I.D.:	MW 206B	WELL LOCK:	107A
WELL CONDITION:	good	WEATHER:	overcast
GAUGE DATE:	3/23/95	GAUGE TIME:	1000
SOUNDING METHOD:	SEB	MEASUREMENT REF:	T.O.P.
STICK UP/DOWN (ft):	2.12	WELL DIAMETER (in.):	2"
PURGE DATE:	3/23/95	PURGE TIME:	1030-1050
PURGE METHOD:	2" grundfos pump	FIELD TECHNICIAN:	MRS & CJV
AMBIENT AIR VOCs (ppm)	0	WELL MOUTH VOCs (ppm):	0

WELL VOLUME

A. WELL DEPTH (ft):	27.17	D. WELL VOLUME/FT:	.1625
B. DEPTH TO WATER (ft):	16.37	E. WELL VOLUME (gal) (C*D):	1.755
C. LIQUID DEPTH (ft) (A-B):	10.8	F. THREE WELL VOLUMES (gal) (E*3):	5.265

19.9 liters

	BEGINNING	Number of Well Volumes Purged				
		1	2	3	4	5
TIME (min)	1030	1040	1045			
DEPTH TO WATER (ft)	16.37					
PURGE RATE (l/min)	0.5	.5	.5			
VOLUME PURGED (~~gal~~ l)	5	5	7.5			
pH	6.89	6.45	6.20			
TEMPERATURE (C)	7.5	8.0	8.8			
CONDUCTIVITY (μmhos/cm)	50	50	51			
DISSOLVED OXYGEN (μg/L)	8.4	8.4	8.7			
eh (mv)						
TURBIDITY (NTU)	1.18	0.72	0.68			

TOTAL QUANTITY OF WATER REMOVED (~~gal~~ l): 10

SAMPLERS:	CJV + MRS	SAMPLING TIME (START/END):	1050
SAMPLING DATE:	3/23/95	DECONTAMINATION FLUIDS USED:	none
SAMPLE TYPE:	~~VOA~~ grab	SAMPLE PRESERVATIVES:	HCl
SAMPLE BOTTLE IDs:	BN-01-EP-MW-206B		
SAMPLE PARAMETERS:	VOA		

COMMENTS AND OBSERVATIONS:

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EA

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SD A 9503.0011

SITE NAME:	BN-01-EP-NW 207A	PROJECT NUMBER:	2960047
WELL I.D.:	NW 207A	WELL LOCK:	107A
WELL CONDITION:	good	WEATHER:	clear 35°
GAUGE DATE:	3/29/95	GAUGE TIME:	1015
SOUNDING METHOD:	QED	MEASUREMENT REF:	T.O.P.
STICK UP/DOWN (ft):		WELL DIAMETER (in.):	2"
PURGE DATE:	3/29/95	PURGE TIME:	1020
PURGE METHOD:	2" low yield bos	FIELD TECHNICIAN:	MRS TRC
AMBIENT AIR VOCs (ppm)	0	WELL MOUTH VOCs (ppm):	0

WELL VOLUME

A. WELL DEPTH (ft):	73.27	D. WELL VOLUME/FT:	.1625
B. DEPTH TO WATER (ft):	0.00	E. WELL VOLUME (gal) (C*D):	11.91
C. LIQUID DEPTH (ft) (A-B):	73.27	F. THREE WELL VOLUMES (gal) (E*3):	35.72

135.02 liter

	BEGINNING	Number of Well Volumes Purged				
		1	2	3	4	5
TIME (min)	1020	1025	1030	1035	1040	1045
DEPTH TO WATER (ft)	.5	.5	.5	.5	.5	.5
PURGE RATE (l/min)	3	3	3	3	3	3
VOLUME PURGED (gal)	3	15	30	45	60	75
pH	8.44	7.49	7.44	7.43	N/A *	7.47
TEMPERATURE (C)	10	9.9	10	9.3		10.2
CONDUCTIVITY (μmhos/cm)	229	129	131	129		131
DISSOLVED OXYGEN (μg/L)	1.6	1.9	1.8	1.4		1.8
eh (mv)						
TURBIDITY (NTU)	6.21	2.39	12.9	30.3	86.1	9.98

TOTAL QUANTITY OF WATER REMOVED (gal): 90

SAMPLERS:	MRS, TRC	SAMPLING TIME (START/END) :	1050
SAMPLING DATE:	3/29/95	DECONTAMINATION FLUIDS USED:	none
SAMPLE TYPE:	grab	SAMPLE PRESERVATIVES:	HCl
SAMPLE BOTTLE IDs:	BN-01-EP-NW 207A		
SAMPLE PARAMETERS:	VOA		

COMMENTS AND OBSERVATIONS: 3 (lpm) was the slowest setting on our pump with the artesian well * only turbidity was taken since all other values were stable

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FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME:	BN-01-EP-MW-207B	PROJECT NUMBER:	29600.47
WELL I.D.:	MW 207B	WELL LOCK:	107A
WELL CONDITION:	good	WEATHER:	overcast, 35°
GAUGE DATE:	3/30/95	GAUGE TIME:	1055
SOUNDING METHOD:	QED	MEASUREMENT REF:	T.O.P.
STICK UP/DOWN (ft):		WELL DIAMETER (in.):	2"
PURGE DATE:	3/30/95	PURGE TIME:	1105 - 1130
PURGE METHOD:	2" sub. grundfos	FIELD TECHNICIAN:	MRS, TRC
AMBIENT AIR VOCs (ppm)	0	WELL MOUTH VOCs (ppm):	0

WELL VOLUME

A. WELL DEPTH (ft):	9.01	D. WELL VOLUME/FT:	.1625
B. DEPTH TO WATER (ft):	5.15	E. WELL VOLUME (gal) (C*D):	.63
C. LIQUID DEPTH (ft) (A-B):	3.86	F. THREE WELL VOLUMES (gal) (E*3):	1.88
			7.11 liters

	BEGINNING	Number of Well Volumes Purged				
		1	2	3	4	5
TIME (min)	1105	1110	1115	1120	1125	
DEPTH TO WATER (ft)	5.60	5.60	5.60	5.60	5.50	
PURGE RATE (l/min)	.2	.2	.2	.2	.2	
VOLUME PURGED (~~gal~~ l)	.2	1	2	3	4	
pH	7.39	7.32	7.30	7.25	7.20	
TEMPERATURE (C)	6.1	7.9	9.0	9.8	10.0	
CONDUCTIVITY (μmhos/cm)	58	51	49	49	48	
DISSOLVED OXYGEN (μg/L)	4.3	5.1	5.6	5.8	6.0	
eh (mv)						
TURBIDITY (NTU)	13.9	4.16	4.88	5.47	4.56	

TOTAL QUANTITY OF WATER REMOVED (gal): 5

SAMPLERS:	TRC-MRS	SAMPLING TIME (START/END):	1130
SAMPLING DATE:	3/30/95	DECONTAMINATION FLUIDS USED:	none
SAMPLE TYPE:	Grab	SAMPLE PRESERVATIVES:	HCl

SAMPLE BOTTLE IDs: BN-01-EP-MW-207B

SAMPLE PARAMETERS: VOA

COMMENTS AND OBSERVATIONS:

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SN-95d02.0002

SITE NAME:	BN-01-EP.MW208	PROJECT NUMBER:	29600.47
WELL I.D.:	MW208	WELL LOCK:	1074
WELL CONDITION:	good	WEATHER:	Clear 35°
GAUGE DATE:	3/29/95	GAUGE TIME:	0855
SOUNDING METHOD:	QED	MEASUREMENT REF:	TOP
STICK UP/DOWN (ft):		WELL DIAMETER (in.):	2"
PURGE DATE:	3/29/95	PURGE TIME:	0900-0945
PURGE METHOD:	2" Sub grundfos	FIELD TECHNICIAN:	TR MRS
AMBIENT AIR VOCs (ppm)	0	WELL MOUTH VOCs (ppm):	0

WELL VOLUME

A. WELL DEPTH (ft):	103.33	D. WELL VOLUME/FT:	.1625
B. DEPTH TO WATER (ft):	16.54	E. WELL VOLUME (gal) (C*D):	14.10
C. LIQUID DEPTH (ft) (A-B):	86.79	F. THREE WELL VOLUMES (gal) (E*3):	42.31
			159.93 liters

	BEGINNING	Number of Well Volumes Purged				
		1	2	3	4	5
TIME (min)	0905	0910	0915	0920	0930	0935
DEPTH TO WATER (ft)	18.30	18.67	18.65	18.25	17.85	17.82
PURGE RATE (l/min)	.3	.3	.3	.3	.3	.3
VOLUME PURGED (gal)	1.5	3	4.5	6.0	9	10.5
pH	10.40	9.69	9.42	9.14	8.92	8.77
TEMPERATURE (C)	5.0	6.8	7.0	7.1	7.0	7.2
CONDUCTIVITY (μmhos/cm)	90	95	95	97	99	99
DISSOLVED OXYGEN (μg/L)	6.35	4.3	3.4	3.8	3.4	3.3
eh (mv)						
TURBIDITY (NTU)	11.4	19.2	15.6	14.8	16.1	16.7

TOTAL QUANTITY OF WATER REMOVED (gal): _____

SAMPLERS:	TR MRS	SAMPLING TIME (START/END) :	0945
SAMPLING DATE:	3/29/95	DECONTAMINATION FLUIDS USED:	None
SAMPLE TYPE:	GRAB	SAMPLE PRESERVATIVES:	HCL

SAMPLE BOTTLE IDs: BN-01-EP-MW208

SAMPLE PARAMETERS: _____

COMMENTS AND OBSERVATIONS: _____

pg 2 of 2

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SN-95 d0R.0002

SITE NAME:	BN-01-ED-MW208	PROJECT NUMBER:	29600.47
WELL I.D.:	MW208	WELL LOCK:	107A
WELL CONDITION:	good	WEATHER:	clear 35°
GAUGE DATE:	3/29/95	GAUGE TIME:	0855
SOUNDING METHOD:	QED	MEASUREMENT REF:	TOP
STICK UP/DOWN (ft):		WELL DIAMETER (in.):	2"
PURGE DATE:	3/29/95	PURGE TIME:	0900-0945
PURGE METHOD:	2" Sub grundfos	FIELD TECHNICIAN:	TR, MRS
AMBIENT AIR VOCs (ppm)	0	WELL MOUTH VOCs (ppm):	0

WELL VOLUME

A. WELL DEPTH (ft):	103.33	D. WELL VOLUME/FT:	.1625
B. DEPTH TO WATER (ft):	16.54	E. WELL VOLUME (gal) (C*D):	14.10
C. LIQUID DEPTH (ft) (A-B):	86.79	F. THREE WELL VOLUMES (gal) (E*3):	42.31
			159.93 liters

	BEGINNING	Number of Well Volumes Purged				
		1	2	3	4	5
TIME (min)		0940				
DEPTH TO WATER (ft)		17.45				
PURGE RATE (l/min)		.3				
VOLUME PURGED (gal)		12				
pH		8.68				
TEMPERATURE (C)		7.1				
CONDUCTIVITY (μmhos/cm)		99				
DISSOLVED OXYGEN (μg/L)		3.2				
eh (mv)						
TURBIDITY (NTU)		21.9				

TOTAL QUANTITY OF WATER REMOVED (gal): 130.5

SAMPLERS:	MRS, TAS	SAMPLING TIME (START/END):	0945
SAMPLING DATE:	3/29/95	DECONTAMINATION FLUIDS USED:	none
SAMPLE TYPE:	grab	SAMPLE PRESERVATIVES:	HCl

SAMPLE BOTTLE IDs: BN-01-RP-MW-208

SAMPLE PARAMETERS:

COMMENTS AND OBSERVATIONS: ~~* See well sampling BKL site EP.1~~

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EA

SIC 7812. 0107

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME:	BN-[illegible]-EP-MW 109	PROJECT NUMBER:	29600047
WELL I.D.:	MW 109	WELL LOCK:	1074
WELL CONDITION:	good	WEATHER:	sunny, 35°
GAUGE DATE:	3/28/95	GAUGE TIME:	0830
SOUNDING METHOD:	GED	MEASUREMENT REF:	TOC
STICK UP/DOWN (ft):		WELL DIAMETER (in.):	2"
PURGE DATE:	3/28/95	PURGE TIME:	0845 0910
PURGE METHOD:	2" SS [illegible]	FIELD TECHNICIAN:	MRS, TRC, BDA
AMBIENT AIR VOCs (ppm)	0	WELL MOUTH VOCs (ppm):	0

WELL VOLUME

A. WELL DEPTH (ft):	32.38	D. WELL VOLUME/FT:	.1025
B. DEPTH TO WATER (ft):	21.44	E. WELL VOLUME (gal) (C*D):	1.7[illegible]
C. LIQUID DEPTH (ft) (A-B):	10.94	F. THREE WELL VOLUMES (gal) (E*3):	5.01
			14.24 1.10[illegible]

	BEGINNING	Number of Well Volumes Purged				
		1	2	3	4	5
TIME (min)	0845	0900	0905			
DEPTH TO WATER (ft)	21.44	21.48	21.47			
PURGE RATE (l/min)	.5	.5	.5			
VOLUME PURGED (gal)	.5	7.5	10			
pH	6.32	6.42	6.53			
TEMPERATURE (C)	5.9	6.0	6.0			
CONDUCTIVITY (µmhos/cm)	49	49	48			
DISSOLVED OXYGEN (µg/L)	9.1	8.6	8.5			
eh (mv)						
TURBIDITY (NTU)	47.2	7.42	5.58			

TOTAL QUANTITY OF WATER REMOVED (gal): 12.5

SAMPLERS:	TRC, MRS, BDA	SAMPLING TIME (START/END) :	[illegible]
SAMPLING DATE:	3/28/95	DECONTAMINATION FLUIDS USED:	[illegible]
SAMPLE TYPE:	Grab	SAMPLE PRESERVATIVES:	HCl
SAMPLE BOTTLE IDs:	BN-[illegible]-MW 109		
SAMPLE PARAMETERS:	VOA		

COMMENTS AND OBSERVATIONS:

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FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING Pump Ser #: A.9501.0047

SITE NAME:	BN-01EPMW-222	PROJECT NUMBER:	29600.47.7209
WELL I.D.:	MW-222	WELL LOCK:	107A
WELL CONDITION:	Good	WEATHER:	Sunny w/clouds
GAUGE DATE:	3/22/95	GAUGE TIME:	~~[illegible]~~ 1245
SOUNDING METHOD:	2ED	MEASUREMENT REF:	Top of Casing
STICK UP/DOWN (ft):	4" 3.33	WELL DIAMETER (in.):	2in
PURGE DATE:	3/22/95	PURGE TIME:	1255-1330
PURGE METHOD:	Grundfos	FIELD TECHNICIAN:	MRS, CJV
AMBIENT AIR VOCs (ppm)	0	WELL MOUTH VOCs (ppm):	0

WELL VOLUME

A. WELL DEPTH (ft):	45.34	D. WELL VOLUME/FT:	.1625
B. DEPTH TO WATER (ft):	23.90	E. WELL VOLUME (gal) (C*D):	3.48
C. LIQUID DEPTH (ft) (A-B):	21.44	F. THREE WELL VOLUMES (gal) (E*3):	10.45

	BEGINNING	Number of Well Volumes Purged				
		1	2	3	4	5
TIME (min)	1255	1315	1325			
DEPTH TO WATER (ft)	23.90					
PURGE RATE (l/min)	.5	.5	.5			
VOLUME PURGED (gal)	.5	10	15			
pH	7.49	7.37	7.51			
TEMPERATURE (C)	11	10.5	10.5			
CONDUCTIVITY (μmhos/cm)	50	49	50			
DISSOLVED OXYGEN (μg/L)	6.1	6.3	6.6			
eh (mv)						
TURBIDITY (NTU)	1.24	0.95	1.17			

TOTAL QUANTITY OF WATER REMOVED (gal): 17.5

SAMPLERS:	CJV, MRS	SAMPLING TIME (START/END):	1330
SAMPLING DATE:	3/22/95	DECONTAMINATION FLUIDS USED:	none
SAMPLE TYPE:	~~VOA~~ Grab	SAMPLE PRESERVATIVES:	HCl
SAMPLE BOTTLE IDs:	BN-01-EP-MW 222		
SAMPLE PARAMETERS:	VOA		

COMMENTS AND OBSERVATIONS:

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: BN-01-EP-MW 223
WELL I.D.: MW 223
WELL CONDITION: good

PROJECT NUMBER: 2960047
WELL LOCK: 107A
WEATHER: overcast, 30°

GAUGE DATE: 3/30/95
SOUNDING METHOD: QED
STICK UP/DOWN (ft): 2"

GAUGE TIME: 0755
MEASUREMENT REF: T.O.C.
WELL DIAMETER (in.): 2"

PURGE DATE: 3/30/95
PURGE METHOD: 2" sub gallons
AMBIENT AIR VOCs (ppm) 0

PURGE TIME: 0800 - 0820
FIELD TECHNICIAN: TRC, MRS
WELL MOUTH VOCs (ppm): 0

WELL VOLUME

A. WELL DEPTH (ft): 42.61
B. DEPTH TO WATER (ft): 21.20
C. LIQUID DEPTH (ft) (A-B): 21.41

D. WELL VOLUME/FT: .1625
E. WELL VOLUME (gal) (C*D): 3.48
F. THREE WELL VOLUMES (gal) (E*3): 10.44
39.45 liters

	BEGINNING	Number of Well Volumes Purged				
		1	2	3	4	5
TIME (min)	0800	0805	0810	0815		
DEPTH TO WATER (ft)	21.20	21.60	21.42	21.35		
PURGE RATE (l/min)	.3	.3	.3	.3		
VOLUME PURGED (gal)	~~1.5~~ .3	1.5	3	4.5		
pH	6.30	6.05	5.95	6.02		
TEMPERATURE (C)	6.5	7.1	8.0	7.8		
CONDUCTIVITY (µmhos/cm)	31	55	51	50		
DISSOLVED OXYGEN (µg/L)	8.35	7.3	7.25	7.45		
eh (mv)						
TURBIDITY (NTU)	18.9	3.53	2.20	1.38		

TOTAL QUANTITY OF WATER REMOVED (gal): 6

SAMPLERS: MRS, TRC
SAMPLING TIME (START/END): 0820
SAMPLING DATE: 3/30/95
DECONTAMINATION FLUIDS USED: none
SAMPLE TYPE: Grab
SAMPLE PRESERVATIVES: HCl
SAMPLE BOTTLE IDs: BN-01-EP-MW-223
SAMPLE PARAMETERS: VOA
COMMENTS AND OBSERVATIONS: * a duplicate was also taken

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FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME:	BN-01-EP-MW-224	PROJECT NUMBER:	29600 47
WELL I.D.:	MW 224	WELL LOCK:	107A
WELL CONDITION:	good	WEATHER:	clear, 30°
GAUGE DATE:	3/24/95	GAUGE TIME:	0750
SOUNDING METHOD:	RED	MEASUREMENT REF:	T.O.P.
STICK UP/DOWN (ft):		WELL DIAMETER (in.):	2"
PURGE DATE:	3/24/95	PURGE TIME:	0805 - 0830
PURGE METHOD:	2" sub pump	FIELD TECHNICIAN:	~~[illegible]~~, MRS, TRC
AMBIENT AIR VOCs (ppm)	0	WELL MOUTH VOCs (ppm):	0

WELL VOLUME

A. WELL DEPTH (ft):	46.95	D. WELL VOLUME/FT:	.625
B. DEPTH TO WATER (ft):	23.35	E. WELL VOLUME (gal) (C*D):	3.84
C. LIQUID DEPTH (ft) (A-B):	23.6	F. THREE WELL VOLUMES (gal) (E*3):	11.51

43.49 liters

	BEGINNING	Number of Well Volumes Purged				
		1	2	3	4	5
TIME (min)	0810	0815	0820	8.25		
DEPTH TO WATER (ft)	23.35	23.62	23.63	23.64		
PURGE RATE (l/min)	.4	.4	.4	.4		
VOLUME PURGED (gal)	2	4	6	8		
pH	5.71	5.59	5.59	5.61		
TEMPERATURE (C)	5.0	7.1	8.9	8.2		
CONDUCTIVITY (µmhos/cm)	70	99	99	99		
DISSOLVED OXYGEN (µg/L)	7.5	6.0	5.1	5.9		
eh (mv)						
TURBIDITY (NTU)	3.23	1.29	1.12	0.82		

TOTAL QUANTITY OF WATER REMOVED (gal): 10

SAMPLERS:	MRS, ~~[illegible]~~ TRC	SAMPLING TIME (START/END) :	0830
SAMPLING DATE:	3/24/95	DECONTAMINATION FLUIDS USED:	none
SAMPLE TYPE:	grab	SAMPLE PRESERVATIVES:	HCl
SAMPLE BOTTLE IDs:	BN-01-EP-MW 224		
SAMPLE PARAMETERS:	VOA		

COMMENTS AND OBSERVATIONS:

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FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING Pump Ser#: A.9503.0001

SITE NAME:	BN NB-01-EP-MW 225A	PROJECT NUMBER:	29600.47
WELL I.D.:	MW-225A	WELL LOCK:	107A
WELL CONDITION:	Good	WEATHER:	Cloudy @ 40°
GAUGE DATE:	3/23/95	GAUGE TIME:	1100
SOUNDING METHOD:	QED	MEASUREMENT REF:	TOC
STICK UP/~~DOWN~~ (ft):	2.92	WELL DIAMETER (in.):	2 in
PURGE DATE:	3/23/95	PURGE TIME:	1110-1140
PURGE METHOD:	Grundfoss	FIELD TECHNICIAN:	MRS, CJV
AMBIENT AIR VOCs (ppm)	0	WELL MOUTH VOCs (ppm):	0

WELL VOLUME

A. WELL DEPTH (ft):	76.03	D. WELL VOLUME/FT:	.1625
B. DEPTH TO WATER (ft):	15.26	E. WELL VOLUME (gal) (C*D):	9.88
C. LIQUID DEPTH (ft) (A-B):	60.77	F. THREE WELL VOLUMES (gal) (E*3):	29.6 gal

111.98 liters

	BEGINNING	Number of Well Volumes Purged				
		1	2	3	4	5
TIME (min)	1110	1125	1135			
DEPTH TO WATER (ft)	15.26	NA	NA			
PURGE RATE (l/min)	.6	.6	.6			
VOLUME PURGED (gal)	6	9	15			
pH	7.29	7.33	7.26			
TEMPERATURE (C)	8	8.1	7.9			
CONDUCTIVITY (μmhos/cm)	100	109	102			
DISSOLVED OXYGEN (μg/L)	4.0	0.1	2.7			
eh (mv)						
TURBIDITY (NTU)	124	11.6	3.67			

TOTAL QUANTITY OF WATER REMOVED (gal): 18

SAMPLERS:	CJV, MRS	SAMPLING TIME (START/END) :	1140
SAMPLING DATE:	3/23/95	DECONTAMINATION FLUIDS USED:	none
SAMPLE TYPE:	~~VOA~~ Grab	SAMPLE PRESERVATIVES:	HCl
SAMPLE BOTTLE IDs:	NB-01-EP-MW-225A		
SAMPLE PARAMETERS:	VOA		

COMMENTS AND OBSERVATIONS:

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING Pump # A.9501.0030

SITE NAME:	NB-01-EP-MW-225B	PROJECT NUMBER:	29600.47
WELL I.D.:	MW-225B	WELL LOCK:	107A
WELL CONDITION:	good	WEATHER:	Cloudy, 40°F
GAUGE DATE:	3/23/95	GAUGE TIME:	1120
SOUNDING METHOD:	QED	MEASUREMENT REF:	TOC
STICK UP/DOWN (ft):	2.87	WELL DIAMETER (in.):	2"
PURGE DATE:	3/23/95	PURGE TIME:	1145 - 1200
PURGE METHOD:	Grundfoss	FIELD TECHNICIAN:	MRS, CJV
AMBIENT AIR VOCs (ppm)		WELL MOUTH VOCs (ppm):	

WELL VOLUME

A. WELL DEPTH (ft):	42.00	D. WELL VOLUME/FT:	.1625
B. DEPTH TO WATER (ft):	16.91	E. WELL VOLUME (gal) (C*D):	4.08
C. LIQUID DEPTH (ft) (A-B):	25.09	F. THREE WELL VOLUMES (gal) (E*3):	12.23

	BEGINNING	Number of Well Volumes Purged				
		1	2	3	4	5
TIME (min)	1145	1150	1155			
DEPTH TO WATER (ft)	16.91	NA	NA			
PURGE RATE (l/min)	0.6	.6	.6			
VOLUME PURGED (gal)	.6	3	6			
pH	6.68	6.14	7.02			
TEMPERATURE (C)	8	8.7	8.5			
CONDUCTIVITY (μmhos/cm)	29	30	31			
DISSOLVED OXYGEN (μg/L)	6.9	7.8	6.7			
eh (mv)						
TURBIDITY (NTU)	2.71	0.99	0.81			

TOTAL QUANTITY OF WATER REMOVED (gal): 9

SAMPLERS:	CJV, MRS	SAMPLING TIME (START/END) :	1200
SAMPLING DATE:	3/23/95	DECONTAMINATION FLUIDS USED:	none
SAMPLE TYPE:	~~VOA~~ grab	SAMPLE PRESERVATIVES:	HCl
SAMPLE BOTTLE IDs:	NB-01-EP-MW-225B		
SAMPLE PARAMETERS:	VOA		

COMMENTS AND OBSERVATIONS:

EA

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SN - A.9502.0141

SITE NAME:	BN-01-EP-MW-224A	PROJECT NUMBER:	2960047
WELL I.D.:	MW-224A	WELL LOCK:	107A
WELL CONDITION:	good	WEATHER:	clear, 45°
GAUGE DATE:	3/27/95	GAUGE TIME:	1535
SOUNDING METHOD:	QED	MEASUREMENT REF:	T.O.P.
STICK UP/DOWN (ft):	3.04	WELL DIAMETER (in.):	2"
PURGE DATE:	3/27/95	PURGE TIME:	1545-1615
PURGE METHOD:	2" sub grundfos	FIELD TECHNICIAN:	MRS, BDA
AMBIENT AIR VOCs (ppm)	0	WELL MOUTH VOCs (ppm):	0

WELL VOLUME

A. WELL DEPTH (ft):	64.97	D. WELL VOLUME/FT:	.1625
B. DEPTH TO WATER (ft):	13.55	E. WELL VOLUME (gal) (C*D):	8.36
C. LIQUID DEPTH (ft) (A-B):	51.42	F. THREE WELL VOLUMES (gal) (E*3):	25.07

	BEGINNING	Number of Well Volumes Purged				
		1	2	3	4	5
TIME (min)	1545	1555	1610			
DEPTH TO WATER (ft)	13.55	13.59	13.53			
PURGE RATE (l/min)	.3	.3	.3			
VOLUME PURGED (l)	.3	.3	7.5			
pH	6.61	6.75	7.14			
TEMPERATURE (C)	10	9.5	9.8			
CONDUCTIVITY (μmhos/cm)	71	72	77			
DISSOLVED OXYGEN (μg/L)	7.1	6.55	6.45			
eh (mv)						
TURBIDITY (NTU)	12	2.25	0.84			

TOTAL QUANTITY OF WATER REMOVED (l): 9

SAMPLERS:	BDA, MRS	SAMPLING TIME (START/END):	1615
SAMPLING DATE:	3/27/95	DECONTAMINATION FLUIDS USED:	none
SAMPLE TYPE:	grab	SAMPLE PRESERVATIVES:	HCl

SAMPLE BOTTLE IDs: BN-01-EP-MW 224A

SAMPLE PARAMETERS: VOA

COMMENTS AND OBSERVATIONS:

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING Pump Serial # A.9502.0121

SITE NAME:	BN-01-EP-MW-230A	PROJECT NUMBER:	29600.47
WELL I.D.:	MW-230A	WELL LOCK:	107A
WELL CONDITION:	Good	WEATHER:	Cloudy: 40°F
GAUGE DATE:	3/23/95	GAUGE TIME:	1450
SOUNDING METHOD:	QED	MEASUREMENT REF:	TOP
STICK UP/~~DOWN~~ (ft):	2.54	WELL DIAMETER (in.):	2 in
PURGE DATE:	3/23/95	PURGE TIME:	1505 - 1600
PURGE METHOD:	Grundfos	FIELD TECHNICIAN:	CJV, MKS
AMBIENT AIR VOCs (ppm)	0	WELL MOUTH VOCs (ppm):	0

WELL VOLUME

A. WELL DEPTH (ft):	82.08	D. WELL VOLUME/FT:	0.1625
B. DEPTH TO WATER (ft):	13.54	E. WELL VOLUME (gal) (C*D):	11.14
C. LIQUID DEPTH (ft) (A-B):	68.54	F. THREE WELL VOLUMES (gal) (E*3):	33.41

126.30 liters

	BEGINNING	Number of Well Volumes Purged				
		1	2	3	4	5
TIME (min)	1505	1530	1545	1550	1555	
DEPTH TO WATER (ft)	13.54	13.56	13.54	13.58	13.57	
PURGE RATE (l/min)	0.5	.5	.5	.5	.5	
VOLUME PURGED (gal)	.5	12.5	20	22.5	25	
pH	7.96	7.92	9.71	10.51	11.15	
TEMPERATURE (C)	6.9	6.8	6.9	6.9	6.9	
CONDUCTIVITY (μmhos/cm)	65	70	70	68	70	
DISSOLVED OXYGEN (μg/L)	4.5	3.5	3.6	2.2	2.6	
eh (mv)						
TURBIDITY (NTU)	195	63.7	26.7	14.6	8.25	

TOTAL QUANTITY OF WATER REMOVED (gal): 27.5

SAMPLERS:	MRS, CJV	SAMPLING TIME (START/END):	1600
SAMPLING DATE:	3/27/95	DECONTAMINATION FLUIDS USED:	none
SAMPLE TYPE:	Grab	SAMPLE PRESERVATIVES:	HCl

SAMPLE BOTTLE IDs: BN-01-EP-MW-230 A

SAMPLE PARAMETERS: VOA

COMMENTS AND OBSERVATIONS: Used small diameter QED probe during pumping to establish that drawdown was not excessive (i.e., ~~and~~ measurable). QED was set 2" below water level prior to pump start. QED ~~was~~ remained lit (i.e., remained in water) throughout pumping.

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SN - A 9510 R 0064

SITE NAME:	BN-01-ef-mw 231A	PROJECT NUMBER:	2960097
WELL I.D.:	231A	WELL LOCK:	107A
WELL CONDITION:	good	WEATHER:	overcast 35°
GAUGE DATE:	3/30/95	GAUGE TIME:	0910
SOUNDING METHOD:	GED	MEASUREMENT REF:	T.O.C.
STICK UP/DOWN (ft):		WELL DIAMETER (in.):	2"
PURGE DATE:	3/30/95	PURGE TIME:	0915
PURGE METHOD:	2" low flow gravities	FIELD TECHNICIAN:	TRC, MRS
AMBIENT AIR VOCs (ppm)	0	WELL MOUTH VOCs (ppm):	0

WELL VOLUME

A. WELL DEPTH (ft):	62.42	D. WELL VOLUME/FT:	1.25
B. DEPTH TO WATER (ft):	20.31	E. WELL VOLUME (gal) (C*D):	6.84
C. LIQUID DEPTH (ft) (A-B):	42.11	F. THREE WELL VOLUMES (gal) (E*3):	20.53

77.60 liters

	BEGINNING	Number of Well Volumes Purged				
		1	2	3	4	5
TIME (min)	0920	0925	0930	0940	0950	
DEPTH TO WATER (ft)	21.05	21.01	20.95	20.95	20.95	
PURGE RATE (l/min)	.3	.3	.3	.3	.3	
VOLUME PURGED (gal)	1.5	3	4.5	7.5	10.5	
pH	7.48	7.38	7.27	7.13	6.96	
TEMPERATURE (C)	8.3	8.0	8.1	8.0	8.9	
CONDUCTIVITY (µmhos/cm)	38	37	38	38	38	
DISSOLVED OXYGEN (µg/L)	7.8	7.8	7.7	7.6	7.6	
eh (mv)						
TURBIDITY (NTU)	148	117	75.2	31.3	24.2	

TOTAL QUANTITY OF WATER REMOVED (gal): 12

SAMPLERS:	MRS, TRC	SAMPLING TIME (START/END) :	0955
SAMPLING DATE:	3/30/95	DECONTAMINATION FLUIDS USED:	none
SAMPLE TYPE:	Grab	SAMPLE PRESERVATIVES:	HCl

SAMPLE BOTTLE IDs: BN-01-ef-mw 231A

SAMPLE PARAMETERS: VOA

COMMENTS AND OBSERVATIONS: MS/MSD were also collected

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FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SN - A.9448.0017

SITE NAME:	BN-01-EP-MW 231B	PROJECT NUMBER:	2960047
WELL I.D.:	MW 231B	WELL LOCK:	102A
WELL CONDITION:	good	WEATHER:	overcast 35°
GAUGE DATE:	3/30/95	GAUGE TIME:	0955
SOUNDING METHOD:	QED	MEASUREMENT REF:	T.O.P.
STICK UP/DOWN (ft):	2.7"	WELL DIAMETER (in.):	2"
PURGE DATE:	3/30/95	PURGE TIME:	1000-
PURGE METHOD:	2" sub ground fos	FIELD TECHNICIAN:	TRC, MRS
AMBIENT AIR VOCs (ppm)	0	WELL MOUTH VOCs (ppm):	0

WELL VOLUME

A. WELL DEPTH (ft):	37.86	D. WELL VOLUME/FT:	.1625
B. DEPTH TO WATER (ft):	24.48	E. WELL VOLUME (gal) (C*D):	2.17
C. LIQUID DEPTH (ft) (A-B):	13.38	F. THREE WELL VOLUMES (gal) (E*3):	6.52
			24.66 liters

	BEGINNING	Number of Well Volumes Purged				
		1	2	3	4	5
TIME (min)	1005	1010	1015	1025	1030	
DEPTH TO WATER (ft)	24.85	25.05	25.34	25.38	25.38	
PURGE RATE (l/min)	.3	.3	.3	.3	.3	
VOLUME PURGED (gal)	1.5	3	4.5	7.5	9	
pH	6.87	6.83	6.86	6.73	6.80	
TEMPERATURE (C)	7.8	8.5	8.8	9.2	9.1	
CONDUCTIVITY (μmhos/cm)	48	49	50	51	55	
DISSOLVED OXYGEN (μg/L)	8.25	8.1	8.1	8.3	8.2	
eh (mv)						
TURBIDITY (NTU)	375	208	95.5	43.4	32.5	

TOTAL QUANTITY OF WATER REMOVED (gal): 10.5

SAMPLERS:	MRS, TRC	SAMPLING TIME (START/END) :	1035
SAMPLING DATE:	3/30/95	DECONTAMINATION FLUIDS USED:	none
SAMPLE TYPE:	Grab	SAMPLE PRESERVATIVES:	HCl

SAMPLE BOTTLE IDs: BN-01-EP-MW-231B

SAMPLE PARAMETERS: VOA

COMMENTS AND OBSERVATIONS:

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: BN-01 EP MW-303
WELL I.D.: MW-303
WELL CONDITION: Fine

PROJECT NUMBER: 29600.47.7200
WELL LOCK: 107A
WEATHER: overcast

GAUGE DATE: 3/21/95
SOUNDING METHOD: QED
STICK UP/DOWN (ft): 2.21

GAUGE TIME: 1455
MEASUREMENT REF: T.O.P.
WELL DIAMETER (in.): 2"

PURGE DATE: 3/21/95
PURGE METHOD: 2" SVE grafos
AMBIENT AIR VOCs (ppm) 0

PURGE TIME: 1500-1715
FIELD TECHNICIAN: MRS, CJV,
WELL MOUTH VOCs (ppm): 0

WELL VOLUME 2" Well

A. WELL DEPTH (ft): 71.62
B. DEPTH TO WATER (ft): 12.13
C. LIQUID DEPTH (ft) (A-B): 59.49

D. WELL VOLUME/FT: 0.1625 gal/ft
E. WELL VOLUME (gal) (C*D): 9.67 gal
F. THREE WELL VOLUMES (gal) (E*3): 29.00 gal

	BEGINNING	Number of Well Volumes Purged				
		1	2	3	4	5
TIME (min)	~~1213~~ 1500	1700	1710			
DEPTH TO WATER (ft)	12.13	NA	NA			
PURGE RATE (l/min)	.5	.5	.5			
VOLUME PURGED (gal)	.5	60	65			
pH	8.02	~~[illegible]~~ 8.34	8.97			
TEMPERATURE (C)	9	9	9			
CONDUCTIVITY (µmhos/cm)	130	130	130			
DISSOLVED OXYGEN (µg/L)	3.50	1.90	1.30			
eh (mv)						
TURBIDITY (NTU)	22.4	3.17	2.03			

TOTAL QUANTITY OF WATER REMOVED (gal): ~~[illegible]~~ 67.5

SAMPLERS: CC/CV
SAMPLING TIME (START/END): ~~[illegible]~~ 1715

SAMPLING DATE: 3/21/95
DECONTAMINATION FLUIDS USED: none

SAMPLE TYPE: grab
SAMPLE PRESERVATIVES: HCl

SAMPLE BOTTLE IDs: BN-01-EP-MW 303

SAMPLE PARAMETERS: VOA

COMMENTS AND OBSERVATIONS:

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pg 1 of 2

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

BN-01 EP MW-305

SITE NAME:	~~NAS Brunswick~~	PROJECT NUMBER:	29600.47.72
WELL I.D.:	MW-305	WELL LOCK:	107A
WELL CONDITION:	Good	WEATHER:	Sunny, 50°F
GAUGE DATE:	3/22/95	GAUGE TIME:	0815 ~~10:05~~
SOUNDING METHOD:	IED	MEASUREMENT REF:	
STICK UP/DOWN (ft):	2.16	WELL DIAMETER (in.):	2 in
PURGE DATE:	~~NA~~ 3/22/95	PURGE TIME:	~~NA~~ 0825-10
PURGE METHOD:	Bruffos	FIELD TECHNICIAN:	MRS, CJV
AMBIENT AIR VOCs (ppm)	0	WELL MOUTH VOCs (ppm):	0

WELL VOLUME

A. WELL DEPTH (ft):	54.12	D. WELL VOLUME/FT:	.1625
B. DEPTH TO WATER (ft):	7.56	E. WELL VOLUME (gal) (C*D):	7.57
C. LIQUID DEPTH (ft) (A-B):	46.56	F. THREE WELL VOLUMES (gal) (E*3):	22.7 gal

	BEGINNING	Number of Well Volumes Purged				
		1	2	3	4	5
TIME (min)	0825	0840	0900	0930	0945	0950
DEPTH TO WATER (ft)	7.56	NA	NA	NA	NA	NA
PURGE RATE (l/min)	.5	.5	.5	.5	.5	.5
VOLUME PURGED (gal)	.5	2.5	17.5	27.5	42.5	45
pH	8.90	8.69	8.72	8.83	9.10	8.91
TEMPERATURE (C)	7	8.0	7.5	8	8	8.1
CONDUCTIVITY (µmhos/cm)	120	125	125	120	120	125
DISSOLVED OXYGEN (µg/L)	2.4	1.9	1.9	2.1	2.0	1.9
eh (mv)						
TURBIDITY (NTU)	875	1000	673	263	171	148

TOTAL QUANTITY OF WATER REMOVED (gal): 50

SAMPLERS:	CJV MRS	SAMPLING TIME (START/END) :	905
SAMPLING DATE:	3/22/95	DECONTAMINATION FLUIDS USED:	none
SAMPLE TYPE:	grab	SAMPLE PRESERVATIVES:	HCL

SAMPLE BOTTLE IDs: BN-01-EP-MW-305

SAMPLE PARAMETERS: VOCs

COMMENTS AND OBSERVATIONS:

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pg 2 of 2

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

BN-01 EP MW-305

SITE NAME: ~~NAS Brunswick~~ PROJECT NUMBER: 29600.47.72
WELL I.D.: MW-305 WELL LOCK: 107A
WELL CONDITION: Good WEATHER: Sunny, 50°F

GAUGE DATE: 3/22/95 GAUGE TIME: 0815 ~~= 10:06~~
SOUNDING METHOD: JED MEASUREMENT REF:
STICK UP/DOWN (ft): 2.16 WELL DIAMETER (in.): 2 in

PURGE DATE: ~~NA~~ 3/22/95 PURGE TIME: ~~NA~~ 0825-10(
PURGE METHOD: Geotech FIELD TECHNICIAN: MRS, CJV
AMBIENT AIR VOCs (ppm) 0 WELL MOUTH VOCs (ppm): 0

WELL VOLUME

A. WELL DEPTH (ft): 54.12
B. DEPTH TO WATER (ft): 7.56
C: LIQUID DEPTH (ft) (A-B): 46.56
D. WELL VOLUME/FT: .1625
E. WELL VOLUME (gal) (C*D): 7.57
F. THREE WELL VOLUMES (gal) (E*3): 22.7 gal

	BEGINNING	Number of Well Volumes Purged				
		1	2	3	4	5
TIME (min)		0955				
DEPTH TO WATER (ft)		7.56				
PURGE RATE (l/min)		.5				
VOLUME PURGED (gal)		47.5				
pH		9.00				
TEMPERATURE (C)		8				
CONDUCTIVITY (μmhos/cm)		120				
DISSOLVED OXYGEN (μg/L)		2.0				
eh (mv)						
TURBIDITY (NTU)		167				

TOTAL QUANTITY OF WATER REMOVED (gal): 50

SAMPLERS: CJV, MRS SAMPLING TIME (START/END) : 905
SAMPLING DATE: 3/22/95 DECONTAMINATION FLUIDS USED: none
SAMPLE TYPE: grab SAMPLE PRESERVATIVES: HCL
SAMPLE BOTTLE IDs: BN-01-EP-MW-305
SAMPLE PARAMETERS: VOCs
COMMENTS AND OBSERVATIONS:

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FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: BN-01EPMW-306
WELL I.D.: MW-306
WELL CONDITION: Good

PROJECT NUMBER: 29600.47.7200
WELL LOCK: 107A
WEATHER: Sunny, 60°F

GAUGE DATE: 3/22/95
SOUNDING METHOD: QED
STICK UP/~~DOWN~~ (ft): 2.79

GAUGE TIME: 1015
MEASUREMENT REF: TOC
WELL DIAMETER (in.): 2in

PURGE DATE: 3/22/95
PURGE METHOD: Grundfos
AMBIENT AIR VOCs (ppm) 0

PURGE TIME: 10:30 – 11:40
FIELD TECHNICIAN: MRS, CJV
WELL MOUTH VOCs (ppm): 0

WELL VOLUME

A. WELL DEPTH (ft): 56.98
B. DEPTH TO WATER (ft): 16.41
C. LIQUID DEPTH (ft) (A-B): 40.57

D. WELL VOLUME/FT: 0.1625
E. WELL VOLUME (gal) (C*D): 6.59
F. THREE WELL VOLUMES (gal) (E*3): 19.78

	BEGINNING	Number of Well Volumes Purged				
		1	2	3	4	5
TIME (min)	1030	1100	1125	1130	1135	
DEPTH TO WATER (ft)	16.41	NA	NA	NA	NA	
PURGE RATE (l/min)	.5	.5	.5	.5	.5	
VOLUME PURGED (gal)	.5	15	27.5	30	32.5	
pH	6.22	6.56	6.63	6.75	6.70	
TEMPERATURE (C)	11	13	13	12	12	
CONDUCTIVITY (µmhos/cm)	60	65	60	62	65	
DISSOLVED OXYGEN (µg/L)	0.1	5.1	0.1	4.6	5.1	
eh (mv)						
TURBIDITY (NTU)	280	71.1	33.6	11.1	6.24	

TOTAL QUANTITY OF WATER REMOVED (gal): 35

SAMPLERS: CJV, MRS
SAMPLING TIME (START/END): 1130

SAMPLING DATE: 3/22/95
DECONTAMINATION FLUIDS USED: none

SAMPLE TYPE: ~~Dpt~~ Grab
SAMPLE PRESERVATIVES: HCl

SAMPLE BOTTLE IDs: BN-01-EP-MW-306

SAMPLE PARAMETERS: VOA

COMMENTS AND OBSERVATIONS:

Pump Serial # A.9445.0.

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME:	BN-01EPMW-307	PROJECT NUMBER:	29600.47.T200
WELL I.D.:	MW-307	WELL LOCK:	107#
WELL CONDITION:	Good	WEATHER:	Sunny, 60°
GAUGE DATE:	3/22/95	GAUGE TIME:	1150
SOUNDING METHOD:	QED	MEASUREMENT REF:	TOC
STICK UP/DOWN (ft):	~~6.4'~~ 2.58	WELL DIAMETER (in.):	2 in
PURGE DATE:	3/22/95	PURGE TIME:	1155 - 1220
PURGE METHOD:	Grundfos Pump	FIELD TECHNICIAN:	MKS, CJV
AMBIENT AIR VOCs (ppm)	0	WELL MOUTH VOCs (ppm):	0

WELL VOLUME

A. WELL DEPTH (ft):	22.21	D. WELL VOLUME/FT:	.1625
B. DEPTH TO WATER (ft):	16.23	E. WELL VOLUME (gal) (C*D):	.97
C. LIQUID DEPTH (ft) (A-B):	5.98	F. THREE WELL VOLUMES (gal) (E*3):	2.97

	BEGINNING	Number of Well Volumes Purged				
		1	2	3	4	5
TIME (min)	1155	1205	1215			
DEPTH TO WATER (ft)	16.23	NA	NA			
PURGE RATE (l/min)	.5	.5	.5			
VOLUME PURGED (gal)	.5	5	10			
pH	6.52	6.70	6.95			
TEMPERATURE (C)	14.5	14	13.8			
CONDUCTIVITY (μmhos/cm)	130	135	130			
DISSOLVED OXYGEN (μg/L)	4.8	5.3	5.6			
eh (mv)						
TURBIDITY (NTU)	14.8	10.1	13.6			

TOTAL QUANTITY OF WATER REMOVED (gal): 12.5

SAMPLERS:	CJV, MKS	SAMPLING TIME (START/END) :	1220
SAMPLING DATE:	3/22/95	DECONTAMINATION FLUIDS USED:	none
SAMPLE TYPE:	~~VOA~~ GW	SAMPLE PRESERVATIVES:	HCl
SAMPLE BOTTLE IDs:	BN-01-EP-MW-307		
SAMPLE PARAMETERS:	VOA		

COMMENTS AND OBSERVATIONS:

pump # 9510R-0013

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME:
WELL I.D.: MW308
WELL CONDITION: good

PROJECT NUMBER: 29600.47
WELL LOCK: A/07
WEATHER: Clear, Sunny

GAUGE DATE: 3/29/95
SOUNDING METHOD: QED
STICK UP/DOWN (ft): 2.79

GAUGE TIME: 0900
MEASUREMENT REF: TOP PVC
WELL DIAMETER (in.): 2"

PURGE DATE: 3/29/95
PURGE METHOD: 2" Sub Ground
AMBIENT AIR VOCs (ppm) 0

PURGE TIME: 0930 -
FIELD TECHNICIAN: RH BDA
WELL MOUTH VOCs (ppm): 0

WELL VOLUME

A. WELL DEPTH (ft): 72.85
B. DEPTH TO WATER (ft): 3.82
C. LIQUID DEPTH (ft) (A-B): 69.03

D. WELL VOLUME/FT: .1625
E. WELL VOLUME (gal) (C*D): 11.21
F. THREE WELL VOLUMES (gal) (E*3): 33.65
127.2 L

	BEGINNING	Number of Well Volumes Purged				
		1	2	3	4	5
TIME (min)	0935	0942	0947	0954		
DEPTH TO WATER (ft)	3.82	3.82	3.82	3.82		
PURGE RATE (l/min)	.4L/m	.4L/m	.4L/m	.4L/m		
VOLUME PURGED (gal)	2L	2.8	2L	2.8		
pH	8.94	8.95	8.94	8.96		
TEMPERATURE (C)	8.2	8.2	8.3	8.3		
CONDUCTIVITY (μmhos/cm)	.383	.399	.417	.421		
DISSOLVED OXYGEN (μg/L)	2.83	2.56	2.83	2.60		
eh (mv)						
TURBIDITY (NTU)	4	20	35	44 45		

TOTAL QUANTITY OF WATER REMOVED (gal): 9.6 L

SAMPLERS: RH, BDA
SAMPLING TIME (START/END) : 0956
SAMPLING DATE: 3/29/95
DECONTAMINATION FLUIDS USED: —
SAMPLE TYPE: gm H_2O - grab
SAMPLE PRESERVATIVES: HCL
SAMPLE BOTTLE IDs: BN-01 - EP - MW308
SAMPLE PARAMETERS: VOCs
COMMENTS AND OBSERVATIONS:

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A9503-0004

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME:		PROJECT NUMBER:	29600.47
WELL I.D.:	MW309A	WELL LOCK:	107A
WELL CONDITION:	good	WEATHER:	clear
GAUGE DATE:	3/29/95	GAUGE TIME:	0800
SOUNDING METHOD:	–	MEASUREMENT REF:	TOP (PVC)
STICK UP/DOWN (ft):	3.04	WELL DIAMETER (in.):	2"
PURGE DATE:	3/29/95	PURGE TIME:	0800–831
PURGE METHOD:	2" sub Grundfos	FIELD TECHNICIAN:	RH BDA
AMBIENT AIR VOCs (ppm)	0	WELL MOUTH VOCs (ppm):	0

WELL VOLUME

A. WELL DEPTH (ft):	72.71	D. WELL VOLUME/FT:	.1625
B. DEPTH TO WATER (ft):	0	E. WELL VOLUME (gal) (C*D):	11.81
C. LIQUID DEPTH (ft) (A-B):	72.71	F. THREE WELL VOLUMES (gal) (E*3):	35.45
			133.98

2600ml/m

	BEGINNING	Number of Well Volumes Purged 1	2	3	4	5
TIME (min)	0815	0820	0825	0830		
DEPTH TO WATER (ft)	0	0	0	0		
PURGE RATE (l/min)	26 l/m	26	26	26		
VOLUME PURGED (gal)	4 l	13	13	13	= 43	
pH	8.39	8.37	8.82	8.83		
TEMPERATURE (C)	7.8	8.5	8.4	8.6		
CONDUCTIVITY (µmhos/cm)	.414	.392	.385	.384		
DISSOLVED OXYGEN (µg/L)	2.32	1.45	1.27	1.32		
eh (mv)						
TURBIDITY (NTU)	17	4	3	2		

TOTAL QUANTITY OF WATER REMOVED (gal): 43 l

SAMPLERS: RH, BA

SAMPLING TIME (START/END): 831

SAMPLING DATE: 3/29/95

DECONTAMINATION FLUIDS USED: –

SAMPLE TYPE: grnwater–grab

SAMPLE PRESERVATIVES: HCL

SAMPLE BOTTLE IDs: BN-01-EP-MW 309 A

SAMPLE PARAMETERS: VOCs

COMMENTS AND OBSERVATIONS: active flow of water. unable to lower pump at lowest setting.

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pump head # 9510R 0001

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME:	Brunswick NASB	PROJECT NUMBER:	29600.47
WELL I.D.:	MW 309 B	WELL LOCK:	107A
WELL CONDITION:	good	WEATHER:	Clear
GAUGE DATE:	3/29/95	GAUGE TIME:	0840
SOUNDING METHOD:	~~2" Sub Grndtes~~	MEASUREMENT REF:	TOP (PVC)
STICK UP/DOWN (ft):	~~6~~ 2.87	WELL DIAMETER (in.):	2"
PURGE DATE:	3/29/95	PURGE TIME:	0840
PURGE METHOD:	2" Sub grndtes	FIELD TECHNICIAN:	RH BDM
AMBIENT AIR VOCs (ppm)	0	WELL MOUTH VOCs (ppm):	0

WELL VOLUME

A. WELL DEPTH (ft):	59.43	D. WELL VOLUME/FT:	.1625
B. DEPTH TO WATER (ft):	0	E. WELL VOLUME (gal) (C*D):	9.657
C. LIQUID DEPTH (ft) (A-B):	59.43	F. THREE WELL VOLUMES (gal) (E*3):	28.97
			109.51 <

	BEGINNING	Number of Well Volumes Purged				
		1	2	3	4	5
TIME (min)	0840	0851	0856	0902		
DEPTH TO WATER (ft) *	0	15.3	19.5	27.8		
PURGE RATE (l/min)	.47 mn	.4	.4	.4		
VOLUME PURGED (gal)	1 gal	2	2.5	3.6		
pH	8.86	8.86	8.84	8.84		
TEMPERATURE (C)	8.1	7.3	7.5	7.5		
CONDUCTIVITY (µmhos/cm)	.298	.298	.297	.296		
DISSOLVED OXYGEN (µg/L)	2.08	1.99	1.91	1.88		
eh (mv)						
TURBIDITY (NTU)	13	17	17	16		

TOTAL QUANTITY OF WATER REMOVED (gal): 3.6

SAMPLERS:	RH, BDM	SAMPLING TIME (START/END):	~~1605~~ 0905
SAMPLING DATE:	3/29/95	DECONTAMINATION FLUIDS USED:	—
SAMPLE TYPE:	grn H_2O - grab	SAMPLE PRESERVATIVES:	HCL
SAMPLE BOTTLE IDs:	BN-01-EP-MW-309B		
SAMPLE PARAMETERS:	VOCs		

COMMENTS AND OBSERVATIONS: unable to recharge well at lowest pump setting allow well to recharge

* Depth to water = Depth of pump

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FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

Pump Ser #: A. 9503.0020

SITE NAME:	BN-01-EP-MW-310	PROJECT NUMBER:	29600.47
WELL I.D.:	MW-310	WELL LOCK:	107A
WELL CONDITION:	good	WEATHER:	overcast, @ 45°F
GAUGE DATE:	3/23/95	GAUGE TIME:	0752
SOUNDING METHOD:	2ED	MEASUREMENT REF:	~~TOPVC~~ TOPVC
STICK UP/DOWN (ft):	~~4.45~~ 3.04	WELL DIAMETER (in.):	2"
PURGE DATE:	3/23/95	PURGE TIME:	0820-0900
PURGE METHOD:	Grundfos	FIELD TECHNICIAN:	MRS + CJV
AMBIENT AIR VOCs (ppm)	0.2	WELL MOUTH VOCs (ppm):	0.2

WELL VOLUME

A. WELL DEPTH (ft):	72.83	D. WELL VOLUME/FT:	.1625
B. DEPTH TO WATER (ft):	24.28	E. WELL VOLUME (gal) (C*D):	7.89
C. LIQUID DEPTH (ft) (A-B):	48.55	F. THREE WELL VOLUMES (gal) (E*3):	23.67 gal / 89.5 liters

3.79

	BEGINNING	Number of Well Volumes Purged				
		1	2	3	4	5
TIME (min)	0820	0845	0850	0855		
DEPTH TO WATER (ft)	24.28	NA	NA	NA		
PURGE RATE (l/min)	.4	.4	.4	.4		
VOLUME PURGED (gal)	.4	10	12	14		
pH	6.56	6.51	6.68	6.95		
TEMPERATURE (C)	7	7.9	8.00	7.4		
CONDUCTIVITY (µmhos/cm)	64	62	61	64		
DISSOLVED OXYGEN (µg/L)	7.4	7.7	7.6	6.9		
eh (mv)						
TURBIDITY (NTU)	21.5	5.1	1.42	.72		

TOTAL QUANTITY OF WATER REMOVED (gal): 16

SAMPLERS:	CJV + MRS	SAMPLING TIME (START/END):	0900
SAMPLING DATE:	3/23/95	DECONTAMINATION FLUIDS USED:	none
SAMPLE TYPE:	~~VOA~~ grab	SAMPLE PRESERVATIVES:	HCl

SAMPLE BOTTLE IDs: BN-01-EP-MW-310

SAMPLE PARAMETERS: VOA

COMMENTS AND OBSERVATIONS:

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SN A.9501.0016

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME:	BN-01-EP-MW 313	PROJECT NUMBER:	2960047
WELL I.D.:	MW 313	WELL LOCK:	1072
WELL CONDITION:	good	WEATHER:	clear 40°
GAUGE DATE:	3/29/95	GAUGE TIME:	1415
SOUNDING METHOD:	QED	MEASUREMENT REF:	T.O.P.
STICK UP/DOWN (ft):		WELL DIAMETER (in.):	2"
PURGE DATE:	3/29/95	PURGE TIME:	1420-1525
PURGE METHOD:	2" sub grundfos	FIELD TECHNICIAN:	TRC, MRS
AMBIENT AIR VOCs (ppm)	12	WELL MOUTH VOCs (ppm):	2

WELL VOLUME

A. WELL DEPTH (ft):	37.14	D. WELL VOLUME/FT:	.1625
B. DEPTH TO WATER (ft):	6.85	E. WELL VOLUME (gal) (C*D):	4.99
C. LIQUID DEPTH (ft) (A-B):	30.29	F. THREE WELL VOLUMES (gal) (E*3):	14.77
			55.82

	BEGINNING	Number of Well Volumes Purged 1	2	3	4	5
TIME (min)	1425	1430	1435	1440	1445	1520
DEPTH TO WATER (ft)	6.85	6.85	6.85	6.85	6.85	6.85
PURGE RATE (l/min)	.3	.3	.3	.3	.3	.3
VOLUME PURGED (gal)	1.5	3	4.5	15	16.5	18
pH	7.64	7.79	7.96	7.98	8.00	7.97
TEMPERATURE (C)	8.0	6.9	7.9	8.0	8.0	8.1
CONDUCTIVITY (µmhos/cm)	149	151	161	169	170	163
DISSOLVED OXYGEN (µg/L)	4.9	3.1	4.6	3.5	3.8	3.9
eh (mv)						
TURBIDITY (NTU)	491	467	643	305	205 *	30.0

TOTAL QUANTITY OF WATER REMOVED (gal): 14.5

SAMPLERS:	MRS, TRC	SAMPLING TIME (START/END):	1525
SAMPLING DATE:	3/29/95	DECONTAMINATION FLUIDS USED:	none
SAMPLE TYPE:	grab	SAMPLE PRESERVATIVES:	HCl
SAMPLE BOTTLE IDs:	BN-01-EP-MW 313		
SAMPLE PARAMETERS:	VOA		

COMMENTS AND OBSERVATIONS: * look in BK1 well sampling sites EP.1.3 for turbidity readings

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FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SN - A.9445.0001

SITE NAME: BN-01-EP-MW 318
WELL I.D.: MW - 318
WELL CONDITION: good

PROJECT NUMBER: 296 0047
WELL LOCK: 107A
WEATHER: clear, 50°

GAUGE DATE: 3/29/95
SOUNDING METHOD: QED
STICK UP/DOWN (ft):

GAUGE TIME: 11 29
MEASUREMENT REF: T.O.P.
WELL DIAMETER (in.): 2"

PURGE DATE: 3/29/95
PURGE METHOD: 2" sub pump
AMBIENT AIR VOCs (ppm) 0

PURGE TIME: 1130 - 1200
FIELD TECHNICIAN: TRC, MRS
WELL MOUTH VOCs (ppm): 0

WELL VOLUME

A. WELL DEPTH (ft): 25.14
B. DEPTH TO WATER (ft): 5.15
C. LIQUID DEPTH (ft) (A-B): 19.99

D. WELL VOLUME/FT: .1625
E. WELL VOLUME (gal) (C*D): 3.25
F. THREE WELL VOLUMES (gal) (E*3): 9.75
36.84 liter

	BEGINNING	Number of Well Volumes Purged				
		1	2	3	4	5
TIME (min)	1135	1140	1145	1150	1155	
DEPTH TO WATER (ft)	5.15	8.65	6.65	8.68	8.74	
PURGE RATE (l/min)	.3	.3	.3	.3	.3	
VOLUME PURGED (gal)	1.5	3	4.5	6	7.5	
pH	7.45	7.17	6.88	6.72	6.70	
TEMPERATURE (C)	9.5	10	11	12	11.5	
CONDUCTIVITY (µmhos/cm)	59	50	40	39	39	
DISSOLVED OXYGEN (µg/L)	3.8	4.7	5.4	5.9	5.0	
eh (mv)						
TURBIDITY (NTU)	82	33.5	11.6	4.82	4.42	

TOTAL QUANTITY OF WATER REMOVED (gal): 9

SAMPLERS: MRS, TRC
SAMPLING TIME (START/END) : 1200
SAMPLING DATE: 3/29/95
DECONTAMINATION FLUIDS USED: none
SAMPLE TYPE: Grab
SAMPLE PRESERVATIVES: HCl
SAMPLE BOTTLE IDs: BN-01-EP-MW-318
SAMPLE PARAMETERS: VOA
COMMENTS AND OBSERVATIONS:

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SN A.9503.0024

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME:	BN-01-EP-MW-319	PROJECT NUMBER:	2960047
WELL I.D.:	MW 319	WELL LOCK:	107A
WELL CONDITION:	good	WEATHER:	clear 45°
GAUGE DATE:	3/27/95	GAUGE TIME:	1420-1505
SOUNDING METHOD:	QED	MEASUREMENT REF:	T.O.P.
STICK UP/DOWN (ft):	2.96	WELL DIAMETER (in.):	2"
PURGE DATE:	3/27/95	PURGE TIME:	1435
PURGE METHOD:	2" sub grundfos	FIELD TECHNICIAN:	BDA, MRS
AMBIENT AIR VOCs (ppm)	0	WELL MOUTH VOCs (ppm):	0

WELL VOLUME

A. WELL DEPTH (ft):	72.44	D. WELL VOLUME/FT:	.1625
B. DEPTH TO WATER (ft):	8.91	E. WELL VOLUME (gal) (C*D):	10.32
C. LIQUID DEPTH (ft) (A-B):	63.53	F. THREE WELL VOLUMES (gal) (E*3):	30.97

117.07 liter

	BEGINNING	Number of Well Volumes Purged				
		1	2	3	4	5
TIME (min)	1435	1440	1445	1500		
DEPTH TO WATER (ft)	8.91	8.94	8.86	8.92		
PURGE RATE (l/min)	.4	.4	.4	.4		
VOLUME PURGED (gal)	.4	2	4	10		
pH	6.39	6.09	6.23	6.24		
TEMPERATURE (C)	14	11	10	10.2		
CONDUCTIVITY (µmhos/cm)	69	88	85	86		
DISSOLVED OXYGEN (µg/L)	4.2	3.8	3.8	3.6		
eh (mv)						
TURBIDITY (NTU)	5.75	1.83	1.25	0.42		

TOTAL QUANTITY OF WATER REMOVED (gal): 12

SAMPLERS:	MRS, BDA	SAMPLING TIME (START/END) :	1505
SAMPLING DATE:	3/27/95	DECONTAMINATION FLUIDS USED:	none
SAMPLE TYPE:	good	SAMPLE PRESERVATIVES:	HCl

SAMPLE BOTTLE IDs: BN-01-EP-MW-319

SAMPLE PARAMETERS: VOA

COMMENTS AND OBSERVATIONS:

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FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME:	Brunswick NASB	PROJECT NUMBER:	29600.47
WELL I.D.:	MW 1104	WELL LOCK:	A107
WELL CONDITION:	good	WEATHER:	Cloudy
GAUGE DATE:	3/29/95	GAUGE TIME:	1600
SOUNDING METHOD:	QED	MEASUREMENT REF:	TOP (PVC)
STICK UP/~~DOWN~~ (ft):	2.10	WELL DIAMETER (in.):	2"
PURGE DATE:	3/30/95	PURGE TIME:	0730 -
PURGE METHOD:	2" sub grundfos	FIELD TECHNICIAN:	TRC, BDA
AMBIENT AIR VOCs (ppm)	0	WELL MOUTH VOCs (ppm):	0

WELL VOLUME

A. WELL DEPTH (ft):	27.55	D. WELL VOLUME/FT:	.1625
B. DEPTH TO WATER (ft):	12.12	E. WELL VOLUME (gal) (C*D):	2.51
C. LIQUID DEPTH (ft) (A-B):	15.43	F. THREE WELL VOLUMES (gal) (E*3):	7.52
			28.43 L.

	BEGINNING	Number of Well Volumes Purged				
		1	2	3	4	5
TIME (min)	0727	0734	0739	0744	0750	
DEPTH TO WATER (ft)	12.12	12.12	12.12	12.12	12.12	12
PURGE RATE (l/min)	.4 L/m	.4	.4	.4	.4	
VOLUME PURGED (gal)	1 gal	1.5	2.0	2.5	3.1	
pH	5.04	5.79	5.92	6.01	6.01	
TEMPERATURE (C)	5.9	7.6	8.1	8.2	8.2	
CONDUCTIVITY (µmhos/cm)	.110	.065	.064	.066	.066	
DISSOLVED OXYGEN (µg/L)	4.5	3.30	2.70	2.85	2.36	
eh (mv)						
TURBIDITY (NTU)	267	32	12	9	7	

TOTAL QUANTITY OF WATER REMOVED (gal): 3.1

SAMPLERS:	TRC, BDA	SAMPLING TIME (START/END) :	0753
SAMPLING DATE:	3/30/95	DECONTAMINATION FLUIDS USED:	—
SAMPLE TYPE:	grn H_2O - grab	SAMPLE PRESERVATIVES:	HCL

SAMPLE BOTTLE IDs: BN-01-EP-MW 1104

SAMPLE PARAMETERS: VOCs

COMMENTS AND OBSERVATIONS: reddish color on first water collect

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FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME:	NASB-Brunswick	PROJECT NUMBER:	29600.47
WELL I.D.:	P105	WELL LOCK:	A107
WELL CONDITION:	good	WEATHER:	windy.
GAUGE DATE:	3/30/95	GAUGE TIME:	
SOUNDING METHOD:	QED	MEASUREMENT REF:	TOP
STICK UP/DOWN (ft):	27 3/4"	WELL DIAMETER (in.):	2"
PURGE DATE:	3/30/95	PURGE TIME:	
PURGE METHOD:	pump	FIELD TECHNICIAN:	RH
AMBIENT AIR VOCs (ppm)	0	WELL MOUTH VOCs (ppm):	0

WELL VOLUME

A. WELL DEPTH (ft):	~~44~~ 70.35	D. WELL VOLUME/FT:	NA
B. DEPTH TO WATER (ft):	8.49	E. WELL VOLUME (gal) (C*D):	NA
C. LIQUID DEPTH (ft) (A-B):	61.9	F. THREE WELL VOLUMES (gal) (E*3):	NA

	BEGINNING	Number of Well Volumes Purged				
		1	2	3	4	5
TIME (min)	1136	1138				
DEPTH TO WATER (ft)	8.4	8.4				
PURGE RATE (l/min)	.3	.3				
VOLUME PURGED (gal)	.3	.6				
pH	7.33	7.03				
TEMPERATURE (C)	8.1	8.2				
CONDUCTIVITY (μmhos/cm)	.139	125				
DISSOLVED OXYGEN (μg/L)	4.86	4.28				
eh (mv)						
TURBIDITY (NTU)	312	OR*				

TOTAL QUANTITY OF WATER REMOVED (gal): .6

SAMPLERS:	RH CC	SAMPLING TIME (START/END) :	1140
SAMPLING DATE:	3/30/95	DECONTAMINATION FLUIDS USED:	NA
SAMPLE TYPE:	VOCs	SAMPLE PRESERVATIVES:	HCL

SAMPLE BOTTLE IDs:

SAMPLE PARAMETERS:

COMMENTS AND OBSERVATIONS: * turbd - out of range

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FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: NASB Brunswick
PROJECT NUMBER: 29600.47
WELL I.D.: P106
WELL LOCK: A107
WELL CONDITION: good
WEATHER: breezy

GAUGE DATE: 3/30/95
GAUGE TIME:
SOUNDING METHOD: QED
MEASUREMENT REF: TOP
STICK UP/DOWN (ft): 33.5"
WELL DIAMETER (in.): 2"

PURGE DATE: 3/30/95
PURGE TIME: 7min
PURGE METHOD: pump
FIELD TECHNICIAN: RH
AMBIENT AIR VOCs (ppm) 0
WELL MOUTH VOCs (ppm): 0

WELL VOLUME

A. WELL DEPTH (ft): 71.06
B. DEPTH TO WATER (ft): 7.93
C. LIQUID DEPTH (ft) (A-B): 63.13
D. WELL VOLUME/FT: NA
E. WELL VOLUME (gal) (C*D): NA
F. THREE WELL VOLUMES (gal) (E*3): NA

	BEGINNING	Number of Well Volumes Purged				
		1	2	3	4	5
TIME (min)	1203	1210				
DEPTH TO WATER (ft)	7.93	7.93				
PURGE RATE (l/min)	.3	.3				
VOLUME PURGED (gal)	.3	.6				
pH	7.12	7.11				
TEMPERATURE (C)	7.4	7.7				
CONDUCTIVITY (μmhos/cm)	114	128				
DISSOLVED OXYGEN (μg/L)	5.60	5.13				
eh (mv)						
TURBIDITY (NTU)	30	OR*				

TOTAL QUANTITY OF WATER REMOVED (gal): .6

SAMPLERS: RH CC
SAMPLING TIME (START/END) : 1206
SAMPLING DATE: 3/30/95
DECONTAMINATION FLUIDS USED: NA.
SAMPLE TYPE: VOCs grab
SAMPLE PRESERVATIVES: HCL
SAMPLE BOTTLE IDs: BN-01-EP-P106
SAMPLE PARAMETERS: VOCs
COMMENTS AND OBSERVATIONS: * out of Range - high very turbid

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FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME:	NASB-Brunswick	PROJECT NUMBER:	29600.47
WELL I.D.:	P111	WELL LOCK:	A 107
WELL CONDITION:	Good	WEATHER:	breezy
GAUGE DATE:	3/30/95	GAUGE TIME:	1300
SOUNDING METHOD:	QED	MEASUREMENT REF:	TOP
STICK UP/DOWN (ft):	39"	WELL DIAMETER (in.):	.5"
PURGE DATE:	3/30/95	PURGE TIME:	5min
PURGE METHOD:	pump	FIELD TECHNICIAN:	~~BH~~ CC
AMBIENT AIR VOCs (ppm)	0	WELL MOUTH VOCs (ppm):	0

WELL VOLUME

A. WELL DEPTH (ft):	None taken	D. WELL VOLUME/FT:	NA
B. DEPTH TO WATER (ft):	3.22	E. WELL VOLUME (gal) (C*D):	NA
C. LIQUID DEPTH (ft) (A-B):	—	F. THREE WELL VOLUMES (gal) (E*3):	NA

	BEGINNING	Number of Well Volumes Purged				
		1	2	3	4	5
TIME (min)	1300					
DEPTH TO WATER (ft)	3.22					
PURGE RATE (l/min)	.3 l/m					
VOLUME PURGED (gal)	.5 gal					
pH	6.57					
TEMPERATURE (C)	4.3					
CONDUCTIVITY (μmhos/cm)	101					
DISSOLVED OXYGEN (μg/L)	5.32					
eh (mv)						
TURBIDITY (NTU)	OR*					

TOTAL QUANTITY OF WATER REMOVED (gal): .5

SAMPLERS:	BH, CC	SAMPLING TIME (START/END) :	1305
SAMPLING DATE:	3/30/95	DECONTAMINATION FLUIDS USED:	NA
SAMPLE TYPE:	VOCs grab	SAMPLE PRESERVATIVES:	HCL

SAMPLE BOTTLE IDs: BN-01-EP-P111

SAMPLE PARAMETERS: VOCs

COMMENTS AND OBSERVATIONS: * out of Range - very turbid

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FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: NASB - Brunswick
PROJECT NUMBER: 29600.47
WELL I.D.: P 132
WELL LOCK: A 107
WELL CONDITION: good
WEATHER: good

GAUGE DATE: 3/30/95
GAUGE TIME:
SOUNDING METHOD: QED
MEASUREMENT REF: TOP
STICK UP/DOWN (ft): 2.50
WELL DIAMETER (in.): 2"

PURGE DATE: 3/30/95
PURGE TIME:
PURGE METHOD: pump
FIELD TECHNICIAN: CC
AMBIENT AIR VOCs (ppm) 0
WELL MOUTH VOCs (ppm): 0

WELL VOLUME

A. WELL DEPTH (ft): 32.46
B. DEPTH TO WATER (ft): 17.84
C. LIQUID DEPTH (ft) (A-B): 14.62
D. WELL VOLUME/FT: .1625
E. WELL VOLUME (gal) (C*D): 2.37
F. THREE WELL VOLUMES (gal) (E*3): 7.11

	BEGINNING	Number of Well Volumes Purged				
		1	2	3	4	5
TIME (min)	1355	1400				
DEPTH TO WATER (ft)	17.84	17.84				
PURGE RATE (l/min)	.3	.3				
VOLUME PURGED (gal)	1	2.0				
pH	7.81	7.63				
TEMPERATURE (C)	7.0	6.5				
CONDUCTIVITY (μmhos/cm)	70	59				
DISSOLVED OXYGEN (μg/L)	6.5	6.5				
eh (mv)						
TURBIDITY (NTU)	716	502				

TOTAL QUANTITY OF WATER REMOVED (gal): 2

SAMPLERS: CC, RS
SAMPLING TIME (START/END) : 1400
SAMPLING DATE: 3/30/95
DECONTAMINATION FLUIDS USED: NA
SAMPLE TYPE: VOCs
SAMPLE PRESERVATIVES: HCL
SAMPLE BOTTLE IDs: BN-01-EP-P132
SAMPLE PARAMETERS: VOCs
COMMENTS AND OBSERVATIONS:

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Appendix B.3

Field Record of Surface Water and Sediment Sampling Forms

EA ENGINEERING, SCIENCE, AND TECHNOLOGY, INC.

FIELD RECORD OF SURFACE WATER AND SEDIMENT SAMPLING

Project: NASB Brunswick			Site: Eastern Plume SW/SED 01
Project Number: 3600.47			Date: 3/20/95
Sample Location ID: BN-01-EP-SW/SED-01			Sample Team Members: MRS & BDA
Time: 1120/1130	Start: 1120	End: 1130	Signature of Sampler: [illegible]

SURFACE WATER INFORMATION

Water Depth and Sample Location _____ (ft)

Depth of Sample from Top of Water _____ (ft)

Type of Surface Water:
(X) Stream ( ) River
( ) Pond/Lake ( ) Seep

Equipment Used for Collection:
( ) None, Grab into Bottle
( ) Bomb Sampler
( ) Pump _____
(X) Decontacted Jar

Decontamination Fluids Used:
( ) Ethyl Alcohol
( ) 25% Methanol/75% ASTM Type II Water
( ) Deionized Water
( ) Liquinox Solution
( ) Hexane
( ) HNO_3 Solution
( ) Potable Water
(X) None

Velocity Measurements Obtained? ( ) No ( ) Yes, See Flow Measurement Data Record _____

Temperature 5 Degree C. Specific Conductivity 80 µmhos/cm pH 7.18 Units Dissolved Oxygen 7.2 ppm

Turb. 9.10 NTU

Field QC Data: ( ) Field Duplicate Collected
Duplicate ID _____

Sample Location Sketch:
( ) Yes
( ) No

Method Used:
( ) Winkler
( ) Probe

SEDIMENT INFORMATION

Type of Sample Collected:
(X) Discrete
( ) Composite

Sediment Type:
( ) Clay
( ) Sand
( ) Organic
( ) Gravel

Equipment Used for Collection:
( ) Gravity Corer
( ) Stainless Steel Split Spoon
( ) Dredge
( ) Hand Spoon
( ) Aluminum Pans
( ) Stainless Steel Bucket
(X) Stainless steel auger

Decontamination Fluids Used:
( ) Ethyl Alcohol
( ) 25% Methanol/75% ASTM Type II Water
(X) Deionized Water
(X) Liquinox Solution
( ) Hexane
( ) HNO_3 Solution
( ) Potable Water
( ) None
(X) isopropyl

Sample Observations:
( ) Odor _____
( ) Color _____
( ) _____

Field QC Data: ( ) Field Duplicate Collected
Duplicate ID _____

SAMPLES COLLECTED

Check if Required at this Location	Matrix: Surface Water	Matrix: Sediment	Check if Preserved with Acid/Base	Volume Required	Check if Sample Collected	Sample Bottle IDs			
	✓		HCl/NaOH/HNO_3	2.2 L	✓				
		✓		6 oz	✓				

NOTES/SKETCH

EA ENGINEERING, SCIENCE, AND TECHNOLOGY, INC.

FIELD RECORD OF SURFACE WATER AND SEDIMENT SAMPLING

Project: NASB Brunswick			Site: Eastern Plume SW/SED 02
Project Number: 29600.47			Date: 3/20/95
Sample Location ID: BN-01-EP-SW/SED-02			Sample Team Members: BDA/MRS
Time: 1050/1100	Start: 1050	End: 1100	Signature of Sampler: [illegible]

SURFACE WATER INFORMATION

Water Depth and Sample Location _____ (ft)

Depth of Sample from Top of Water _____ (ft)

Type of Surface Water:
(X) Stream ( ) River
( ) Pond/Lake ( ) Seep

Equipment Used for Collection:
( ) None, Grab into Bottle
( ) Bomb Sampler
( ) Pump _____
(X) Decontaminated Jar

Decontamination Fluids Used:
( ) Ethyl Alcohol
( ) 25% Methanol/75% ASTM Type II Water
~~(X) Deionized Water~~
~~(X) Liquinox Solution~~
( ) Hexane
( ) HNO_3 Solution
( ) Potable Water
(X) None
~~( ) [illegible]~~

Velocity Measurements Obtained? ( ) No ( ) Yes, See Flow Measurement Data Record _____

Temperature 6 Degree C. Specific Conductivity 91 µmhos/cm pH 6.82 Units Dissolved Oxygen 3.1 ppm

Field QC Data: ( ) Field Duplicate Collected
Duplicate ID _____

Sample Location Sketch:
( ) Yes
( ) No

Method Used:
( ) Winkler
( ) Probe

TURB 6.58

SEDIMENT INFORMATION

Type of Sample Collected:
(X) Discrete
( ) Composite

Sediment Type:
( ) Clay
( ) Sand
( ) Organic
( ) Gravel

Equipment Used for Collection:
( ) Gravity Corer
( ) Stainless Steel Split Spoon
( ) Dredge
( ) Hand Spoon
( ) Aluminum Pans
( ) Stainless Steel Bucket
(X) stainless steel auger

Decontamination Fluids Used:
( ) Ethyl Alcohol
( ) 25% Methanol/75% ASTM Type II Water
(X) Deionized Water
(X) Liquinox Solution
( ) Hexane
( ) HNO_3 Solution
( ) Potable Water
( ) None
(X) Isopropyl

Sample Observations:
( ) Odor _____
( ) Color _____
( ) _____

Field QC Data: ( ) Field Duplicate Collected
Duplicate ID _____

SAMPLES COLLECTED

Check if Required at this Location	Matrix: Surface Water	Matrix: Sediment	Check if Preserved with Acid/Base	Volume Required	Check if Sample Collected	Sample Bottle IDs			
	✓		HCl/NaOH/HNO_3	2 2 L	✓				
		✓		6 oz					

NOTES/SKETCH

EA ENGINEERING, SCIENCE, AND TECHNOLOGY, INC.

FIELD RECORD OF SURFACE WATER AND SEDIMENT SAMPLING

Project: NASB Brunswick			Site: Eastern Plume SW/Sed 3
Project Number: 29600.47			Date: 3/20/95
Sample Location ID: BN-01-EP-SW/SED-03			Sample Team Members: BDA, MRS
Time: 0930/0946	Start: 0930	End: 0946	Signature of Sampler: Brian Anderson

SURFACE WATER INFORMATION

Water Depth and Sample Location 6" (ft)

Depth of Sample from Top of Water 6" (ft)

Type of Surface Water:
(X) Stream ( ) River
( ) Pond/Lake ( ) Seep

Equipment Used for Collection:
(X) None. Grab into Bottle (Dedicated)
( ) Bomb Sampler
( ) Pump _____
(X) Auger

Decontamination Fluids Used:
( ) Ethyl Alcohol
( ) 25% Methanol/75% ASTM Type II Water
(X) Deionized Water
(X) Liquinox Solution
( ) Hexane
( ) HNO_3 Solution
( ) Potable Water
(X) None
(X) Isopropyl

Velocity Measurements Obtained? (X) No ( ) Yes, See Flow Measurement Data Record _____

Temperature 5.9 Degree C. Specific Conductivity 91 µmhos/cm pH 7.11 Units Dissolved Oxygen 7.9 ppm

Field QC Data: ( ) Field Duplicate Collected
Duplicate ID _____

Sample Location Sketch:
( ) Yes
(X) No

Method Used:
( ) Winkler
( ) Probe

Turb ____ NTU

SEDIMENT INFORMATION

Type of Sample Collected:
(X) Discrete
( ) Composite

Sediment Type:
( ) Clay
( ) Sand
(X) Organic
( ) Gravel

Equipment Used for Collection:
( ) Gravity Corer
( ) Stainless Steel Split Spoon
( ) Dredge
( ) Hand Spoon
( ) Aluminum Pans
( ) Stainless Steel Bucket
(X) Stainless Steel Scoop

Decontamination Fluids Used:
( ) Ethyl Alcohol
( ) 25% Methanol/75% ASTM Type II Water
(X) Deionized Water
(X) Liquinox Solution
( ) Hexane
( ) HNO_3 Solution
( ) Potable Water
( ) None
(X) Isopropyl

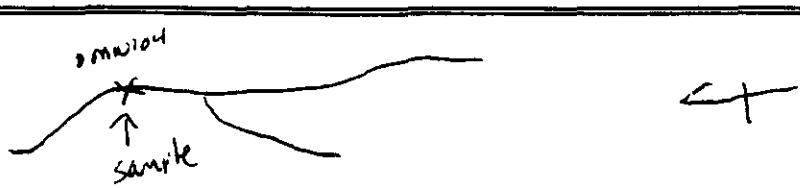
Sample Observations:
( ) Odor None
( ) Color Brown/Black
( ) _____

Field QC Data: ( ) Field Duplicate Collected
Duplicate ID _____

SAMPLES COLLECTED

Check if Required at this Location	Matrix: Surface Water	Matrix: Sediment	Check if Preserved with Acid/Base	Volume Required	Check if Sample Collected	Sample Bottle IDs			
	✓	✓	NaOH/HNO3	2.2L	✓				
		✓		6oz					

NOTES/SKETCH



EA ENGINEERING, SCIENCE, AND TECHNOLOGY, INC.

FIELD RECORD OF SURFACE WATER AND SEDIMENT SAMPLING

Project: NASB - Brunswick			Site: SW/SED 04
Project Number: 29600.47			Date: 3/19/95
Sample Location ID: BN-01-EP-SW/SED 04			Sample Team Members: CC, BDM
Time:	Start:	End:	Signature of Sampler:

SURFACE WATER INFORMATION

Water Depth and Sample Location .75 (ft)

Depth of Sample from Top of Water .50 (ft)

Type of Surface Water:
(X) Stream ( ) River
( ) Pond/Lake ( ) Seep

Equipment Used for Collection:
(X) None, Grab into Bottle (Dedicated)
( ) Bomb Sampler
( ) Pump _____

Decontamination Fluids Used:
( ) Ethyl Alcohol
( ) 25% Methanol/75% ASTM Type II Water
( ) Deionized Water
( ) Liquinox Solution
( ) Hexane
( ) HNO_3 Solution
( ) Potable Water
(X) None

Velocity Measurements Obtained? (X) No ( ) Yes, See Flow Measurement Data Record _____

Temperature 5.5 Degree C. Specific Conductivity 65 µmhos/cm pH 6.85 Units Dissolved Oxygen 7.2 ppm

Field QC Data: ( ) Field Duplicate Collected
Duplicate ID _____

Sample Location Sketch:
( ) Yes
( ) No

Method Used:
( ) Winkler
( ) Probe

TURB 9.19

SEDIMENT INFORMATION

Type of Sample Collected:
(X) Discrete
( ) Composite

Sediment Type:
( ) Clay
( ) Sand
(X) Organic
( ) Gravel

Equipment Used for Collection:
( ) Gravity Corer
( ) Stainless Steel Split Spoon
( ) Dredge
( ) Hand Spoon
( ) Aluminum Pans
( ) Stainless Steel Bucket
(X) Stainless Steel Auger

Decontamination Fluids Used:
( ) Ethyl Alcohol
( ) 25% Methanol/75% ASTM Type II Water
(X) Deionized Water
(X) Liquinox Solution
( ) Hexane
( ) HNO_3 Solution
( ) Potable Water
( ) None
(X) Isopropyl

Sample Observations:
(X) Odor None
(X) Color DK Brown — Black
( ) _____

Field QC Data: ( ) Field Duplicate Collected
Duplicate ID _____

SAMPLES COLLECTED

Check if Required at this Location	Matrix: Surface Water	Matrix: Sediment	Check if Preserved with Acid/Base	Volume Required	Check if Sample Collected	Sample Bottle IDs			
	X		HCL/NAOH/HNO3	2.5L	✓				
		X	—	6.8oz	✓				

NOTES/SKETCH

EA ENGINEERING, SCIENCE, AND TECHNOLOGY, INC.

FIELD RECORD OF SURFACE WATER AND SEDIMENT SAMPLING

Project: NASB - Brunswick			Site: SW/SED 05
Project Number: 29600.47			Date: 3/19/95
Sample Location ID: BN-01-EP SW/SED 05			Sample Team Members: CC, BDA
Time:	Start:	End:	Signature of Sampler:

SURFACE WATER INFORMATION

Water Depth and Sample Location .67 (ft)

Depth of Sample from Top of Water .20 (ft)

Type of Surface Water:
(✓) Stream ( ) River
( ) Pond/Lake ( ) Seep

Equipment Used for Collection:
(✓) ~~None~~ Grab into Bottle (Dedicated)
( ) Bomb Sampler
( ) Pump _____

Decontamination Fluids Used:
( ) Ethyl Alcohol
( ) 25% Methanol/75% ASTM Type II Water
( ) Deionized Water
( ) Liquinox Solution
( ) Hexane
( ) HNO_3 Solution
( ) Potable Water
(✓) None

Velocity Measurements Obtained? (✓) No ( ) Yes, See Flow Measurement Data Record _____

Temperature 8.0 Degree C. Specific Conductivity 71 µmhos/cm pH 7.16 Units Dissolved Oxygen 8.4 ppm

Field QC Data: (✓) Field Duplicate Collected
Duplicate ID _____
~~BN-01~~

Sample Location Sketch:
( ) Yes
(✓) No

Method Used:
( ) Winkler
( ) Probe

Turb 8.38

SEDIMENT INFORMATION

Type of Sample Collected:
(✓) Discrete
( ) Composite

Sediment Type:
( ) Clay
( ) Sand
(✓) Organic
( ) Gravel

Equipment Used for Collection:
( ) Gravity Corer
( ) Stainless Steel Split Spoon
( ) Dredge
( ) Hand Spoon
( ) Aluminum Pans
( ) Stainless Steel Bucket
(✓) Stainless Steel

Decontamination Fluids Used:
( ) Ethyl Alcohol
( ) 25% Methanol/75% ASTM Type II Water
(✓) Deionized Water
(✓) Liquinox Solution
( ) Hexane
( ) HNO_3 Solution
( ) Potable Water
( ) None
(✓) Isopropyl

Sample Observations:
(✓) Odor None
(✓) Color DK Brown to Black
( ) _____

Field QC Data: ( ) Field Duplicate Collected
Duplicate ID _____

SAMPLES COLLECTED

Check if Required at this Location	Matrix: Surface Water	Matrix: Sediment	Check if Preserved with Acid/Base	Volume Required	Check if Sample Collected	Sample Bottle IDs			
	✓		HCL/NaOH/HNO_3	2.5L	Yes				
		✓	None	6-8oz	Yes				

NOTES/SKETCH

EA ENGINEERING, SCIENCE, AND TECHNOLOGY, INC.

FIELD RECORD OF SURFACE WATER AND SEDIMENT SAMPLING

Project: NASB Brunswick			Site: SW/SED 06
Project Number: 29600.47			Date: 3/19/95
Sample Location ID: BN-01-EP-SW/SED 06			Sample Team Members: CC, BDM
Time:	Start:	End:	Signature of Sampler:

SURFACE WATER INFORMATION

Water Depth and Sample Location ~67 (ft)

Depth of Sample from Top of Water ~50 (ft)

Type of Surface Water:
(✓) Stream
( ) River
( ) Pond/Lake
( ) Seep

Equipment Used for Collection:
(✓) None, Grab into Bottle (Dedicated)
( ) Bomb Sampler
( ) Pump _____

Decontamination Fluids Used:
( ) Ethyl Alcohol
( ) 25% Methanol/75% ASTM Type II Water
( ) Deionized Water
( ) Liquinox Solution
( ) Hexane
( ) HNO_3 Solution
( ) Potable Water
(✓) None

Velocity Measurements Obtained? (✓) No ( ) Yes, See Flow Measurement Data Record _____

Temperature 8.5 Degree C. Specific Conductivity 72 µmhos/cm pH 6.73 Units Dissolved Oxygen 8.6 ppm

Field QC Data: (✓) Field Duplicate Collected
Duplicate ID _____
MS/MSD X

Sample Location Sketch:
( ) Yes
( ) No

Method Used:
( ) Winkler
( ) Probe

Turb 16.7

SEDIMENT INFORMATION

Type of Sample Collected:
(✓) Discrete
( ) Composite

Sediment Type:
( ) Clay
( ) Sand
(✓) Organic
( ) Gravel

Equipment Used for Collection:
( ) Gravity Corer
( ) Stainless Steel Split Spoon
( ) Dredge
( ) Hand Spoon
( ) Aluminum Pans
( ) Stainless Steel Bucket
(✓) Stainless Steel Auger

Decontamination Fluids Used:
( ) Ethyl Alcohol
( ) 25% Methanol/75% ASTM Type II Water
(✓) Deionized Water
(✓) Liquinox Solution
( ) Hexane
( ) HNO_3 Solution
( ) Potable Water
( ) None
(✓) Isopropyl

Sample Observations:
(✓) Odor None
(✓) Color DK Brown to Black
( ) _____

Field QC Data: (✓) Field Duplicate Collected
Duplicate ID _____
MS/MSD

SAMPLES COLLECTED

Check if Required at this Location	Matrix: Surface Water	Matrix: Sediment	Check if Preserved with Acid/Base	Volume Required	Check if Sample Collected	Sample Bottle IDs			
	X		HCL/NaOH/HNO_3	2.5L	X				
		X		6-8oz	X				

NOTES/SKETCH

EA ENGINEERING, SCIENCE, AND TECHNOLOGY, INC.

FIELD RECORD OF SURFACE WATER AND SEDIMENT SAMPLING

Project: 29600, NASB - Brunswick			Site: SW/SED 07
Project Number: 29600.47			Date: 3/19/95
Sample Location ID: BN-01-EP-SW/SED/07			Sample Team Members: CC, BDA
Time:	Start:	End:	Signature of Sampler:

SURFACE WATER INFORMATION

Water Depth and Sample Location .67 (ft)

Depth of Sample from Top of Water .50 (ft)

Type of Surface Water:
(X) Stream ( ) River
( ) Pond/Lake ( ) Seep

Equipment Used for Collection:
(X) ~~None~~, Grab into Bottle (Dedicated)
( ) Bomb Sampler
( ) Pump _____

Decontamination Fluids Used:
( ) Ethyl Alcohol
( ) 25% Methanol/75% ASTM Type II Water
(X) Deionized Water
(X) Liquinox Solution
( ) Hexane
( ) HNO_3 Solution
( ) Potable Water
(X) None

Velocity Measurements Obtained? (X) No ( ) Yes, See Flow Measurement Data Record _____

Temperature 3.5 Degree C. Specific Conductivity 78 µmhos/cm pH 6.91 Units Dissolved Oxygen 9.0 ppm

Field QC Data: (X) Field Duplicate Collected
Duplicate ID _____
BN-01-EP SW/SED 07 D

Sample Location Sketch:
(X) Yes
( ) No

Method Used:
( ) Winkler
( ) Probe

Turb 16.4

SEDIMENT INFORMATION

Type of Sample Collected:
(X) Discrete
( ) Composite

Sediment Type:
( ) Clay
( ) Sand
(X) Organic
( ) Gravel

Equipment Used for Collection:
( ) Gravity Corer
( ) Stainless Steel Split Spoon
( ) Dredge
( ) Hand Spoon
( ) Aluminum Pans
( ) Stainless Steel Bucket
(X) Stainless Steel Auger

Decontamination Fluids Used:
( ) Ethyl Alcohol
( ) 25% Methanol/75% ASTM Type II Water
(X) Deionized Water
(X) Liquinox Solution
( ) Hexane
( ) HNO_3 Solution
( ) Potable Water
( ) None
(X) Isopropyl

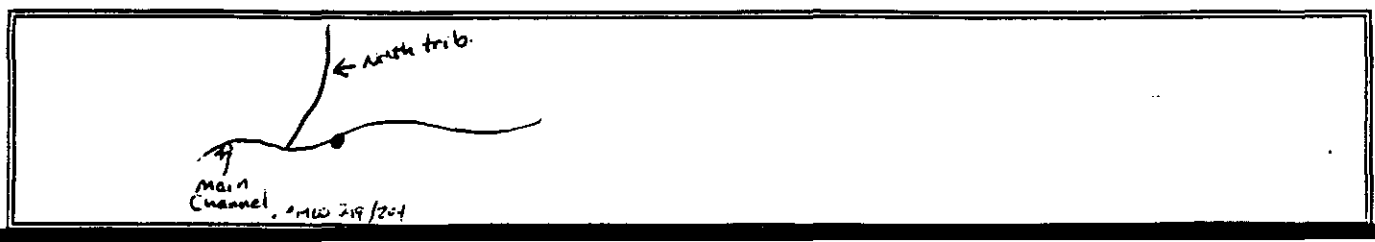
Sample Observations:
(X) Odor None
( ) Color Dk Brown to Black
( ) _____

Field QC Data: (X) Field Duplicate Collected
Duplicate ID BN-01-EP-SED-07D

SAMPLES COLLECTED

Check if Required at this Location	Matrix: Surface Water	Matrix: Sediment	Check if Preserved with Acid/Base	Volume Required	Check if Sample Collected	Sample Bottle IDs			
	X		HCL/NACH/HNO_3	2.5L	Yes				
		X	None	6-8oz	Yes				

NOTES/SKETCH



EA ENGINEERING, SCIENCE, AND TECHNOLOGY, INC.

FIELD RECORD OF SURFACE WATER AND SEDIMENT SAMPLING

Project: ~~29600.47~~ NASB - Brunswick			Site: SEEP 1
Project Number: 29600.47			Date: 3/20/95
Sample Location ID: BN-01-EP-SE 01			Sample Team Members: MRS, RDA
Time: 1030 / 1035	Start: 1030	End: 1035	Signature of Sampler: Brian Anderson /

SURFACE WATER INFORMATION

Water Depth and Sample Location ~~.25~~ .03 (ft) .30

Depth of Sample from Top of Water .30 (ft)

Type of Surface Water:
( ) Stream ( ) River
( ) Pond/Lake (X) Seep

Equipment Used for Collection:
(X) None. Grab into Bottle (Dedicated)
( ) Bomb Sampler
( ) Pump _____

Decontamination Fluids Used:
( ) Ethyl Alcohol
( ) 25% Methanol/75% ASTM Type II Water
~~( ) Deionized Water~~
( ) Liquinox Solution
( ) Hexane
( ) HNO_3 Solution
( ) Potable Water
(X) None

Velocity Measurements Obtained? (X) No ( ) Yes, See Flow Measurement Data Record _____

Temperature 7 Degree C. Specific Conductivity 70 µmhos/cm pH 7.44 Units Dissolved Oxygen 5.7 ppm

Field QC Data: ( ) Field Duplicate Collected
Duplicate ID _____

Sample Location Sketch:
( ) Yes
(X) No

Method Used:
( ) Winkler
( ) Probe

Turb NA

SEDIMENT INFORMATION

Type of Sample Collected:
~~( ) Discrete~~
( ) Composite

Sediment Type:
( ) Clay
( ) Sand
( ) Organic
( ) Gravel

Equipment Used for Collection:
( ) Gravity Corer
( ) Stainless Steel Split Spoon
( ) Dredge
( ) Hand Spoon
( ) Aluminum Pans
( ) Stainless Steel Bucket
( ) _____

Decontamination Fluids Used:
( ) Ethyl Alcohol
( ) 25% Methanol/75% ASTM Type II Water
~~( ) Deionized Water~~
~~( ) Liquinox Solution~~
( ) Hexane
( ) HNO_3 Solution
( ) Potable Water
( ) None
~~( ) Isopropyl~~

Sample Observations:
( ) Odor _____
( ) Color _____
( ) _____

Field QC Data: ( ) Field Duplicate Collected
Duplicate ID _____

SAMPLES COLLECTED

Check if Required at this Location	Matrix: Surface Water	Matrix: Sediment	Check if Preserved with Acid/Base	Volume Required	Check if Sample Collected	Sample Bottle IDs			
	Seep		NaOH/HNO_3/HCl	2.2 L	✓				

NOTES/SKETCH

EA ENGINEERING, SCIENCE, AND TECHNOLOGY, INC.

FIELD RECORD OF SURFACE WATER AND SEDIMENT SAMPLING

Project: NASB Brunswick			Site: Eastern Plume SE/02
Project Number: 29600.47			Date: 3/20/95
Sample Location ID: BN-01-EP-SE-02			Sample Team Members: MRS/BDA
Time: 1001	Start: 1000	End: 1001	Signature of Sampler: Rick Thorkle

SURFACE WATER INFORMATION

Water Depth and Sample Location _____ (ft)

Depth of Sample from Top of Water _____ (ft)

Type of Surface Water:
( ) Stream ( ) River
( ) Pond/Lake (X) Seep

Equipment Used for Collection:
( ) None. Grab into Bottle
( ) Bomb Sampler
( ) Pump _____
(X) Decontaminated Sample Bottle

Decontamination Fluids Used:
( ) Ethyl Alcohol
( ) 25% Methanol/75% ASTM Type II Water
~~( ) Deionized Water~~
~~( ) Liquinox Solution~~
( ) Hexane
( ) HNO_3 Solution
( ) Potable Water
(X) None

Velocity Measurements Obtained? ( ) No ( ) Yes, See Flow Measurement Data Record _____

Temperature 6 Degree C. Specific Conductivity 91 µmhos/cm pH 6.82 Units Dissolved Oxygen 3.4 ppm

Field QC Data: ( ) Field Duplicate Collected
Duplicate ID _____

Sample Location Sketch:
(X) Yes
( ) No

Method Used: Turb. 6.98 NTU
( ) Winkler
( ) Probe

SEDIMENT INFORMATION

Type of Sample Collected:
( ) Discrete
( ) Composite

Sediment Type:
( ) Clay
( ) Sand
( ) Organic
( ) Gravel

Equipment Used for Collection:
( ) Gravity Corer
( ) Stainless Steel Split Spoon
( ) Dredge
( ) Hand Spoon
( ) Aluminum Pans
( ) Stainless Steel Bucket
( ) _____

Decontamination Fluids Used:
( ) Ethyl Alcohol
( ) 25% Methanol/75% ASTM Type II Water
( ) Deionized Water
( ) Liquinox Solution
( ) Hexane
( ) HNO_3 Solution
( ) Potable Water
( ) None

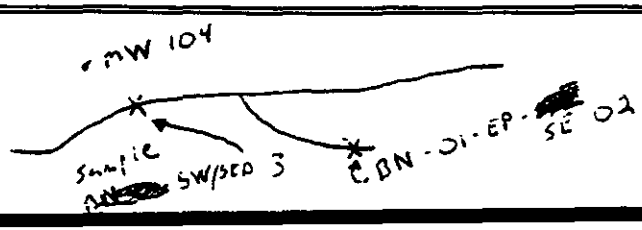
Sample Observations:
( ) Odor _____
( ) Color _____
( ) _____

Field QC Data: ( ) Field Duplicate Collected
Duplicate ID _____

SAMPLES COLLECTED

Check if Required at this Location	Matrix: Surface Water	Matrix: Sediment	Check if Preserved with Acid/Base	Volume Required	Check if Sample Collected	Sample Bottle IDs			
~~BN-01-EP-SE-02~~	SEEP (X)		NaOH, HNO_3/HCl	2.2 L	✓				
SEEP 2									

NOTES/SKETCH



EA ENGINEERING, SCIENCE, AND TECHNOLOGY, INC.

FIELD RECORD OF SURFACE WATER AND SEDIMENT SAMPLING

Project: NASB - Brunswick			Site: SEEP-03
Project Number: 29600.47			Date: 3/19/95
Sample Location ID: BN-01-EP-SP-03			Sample Team Members: CC, BDA
Time:	Start:	End:	Signature of Sampler:

SURFACE WATER INFORMATION

Water Depth and Sample Location 25 (ft)

Depth of Sample from Top of Water 17 (ft)

Type of Surface Water:
( ) Stream ( ) River
( ) Pond/Lake (✓) Seep

Equipment Used for Collection:
(✓) None. Grab into Bottle (Dedicated)
( ) Bomb Sampler
( ) Pump _____

Decontamination Fluids Used:
( ) Ethyl Alcohol
( ) 25% Methanol/75% ASTM Type II Water
( ) Deionized Water
( ) Liquinox Solution
( ) Hexane
( ) HNO_3 Solution
( ) Potable Water
(✓) None

Velocity Measurements Obtained? (✓) No ( ) Yes, See Flow Measurement Data Record _____

Temperature 9.5 Degree C. Specific Conductivity 320 µmhos/cm pH 6.34 Units Dissolved Oxygen 1.5 ppm

Field QC Data: ( ) Field Duplicate Collected
Duplicate ID _____

Sample Location Sketch:
( ) Yes
( ) No

Method Used:
( ) Winkler
( ) Probe

Turb NA

SEDIMENT INFORMATION

Type of Sample Collected:
( ) Discrete
( ) Composite

Sediment Type:
( ) Clay
( ) Sand
( ) Organic
( ) Gravel

Equipment Used for Collection:
( ) Gravity Corer
( ) Stainless Steel Split Spoon
( ) Dredge
( ) Hand Spoon
( ) Aluminum Pans
( ) Stainless Steel Bucket
( ) _____

Decontamination Fluids Used:
( ) Ethyl Alcohol
( ) 25% Methanol/75% ASTM Type II Water
( ) Deionized Water
( ) Liquinox Solution
( ) Hexane
( ) HNO_3 Solution
( ) Potable Water
( ) None

Sample Observations:
( ) Odor _____
( ) Color _____
( ) _____

Field QC Data: ( ) Field Duplicate Collected
Duplicate ID _____

SAMPLES COLLECTED

Check if Required at this Location	Matrix: Surface Water	Matrix: Sediment	Check if Preserved with Acid/Base	Volume Required	Check if Sample Collected	Sample Bottle IDs			
	✓		HCL/NAOH/NA2	25 L	✓				

NOTES/SKETCH

EA ENGINEERING, SCIENCE, AND TECHNOLOGY, INC.

FIELD RECORD OF SURFACE WATER AND SEDIMENT SAMPLING

Project: NASB - Brunswick			Site: SEFD-04
Project Number: 29600.47			Date: 3/19/95
Sample Location ID: BN-01-EP-SP-04			Sample Team Members: CC, BDA
Time:	Start:	End:	Signature of Sampler: [illegible]

SURFACE WATER INFORMATION

Water Depth and Sample Location 0.25 (ft)

Depth of Sample from Top of Water 0.17 (ft)

Type of Surface Water:
( ) Stream ( ) River
( ) Pond/Lake (✓) Seep

Equipment Used for Collection:
(✓) None. Grab into Bottle (Dedicated)
( ) Bomb Sampler
( ) Pump _____

Decontamination Fluids Used:
( ) Ethyl Alcohol
( ) 25% Methanol/75% ASTM Type II Water
( ) Deionized Water
( ) Liquinox Solution
( ) Hexane
( ) HNO_3 Solution
( ) Potable Water
(✓) None

Velocity Measurements Obtained? (✓) No ( ) Yes, See Flow Measurement Data Record _____

Temperature 7.9 Degree C. Specific Conductivity 152 µmhos/cm pH 6.32 Units Dissolved Oxygen 2.8 ppm

Field QC Data: ( ) Field Duplicate Collected
Duplicate ID _____

Sample Location Sketch:
( ) Yes
( ) No

Method Used:
( ) Winkler
( ) Probe

Turb NA

SEDIMENT INFORMATION

Type of Sample Collected:
( ) Discrete
( ) Composite

Sediment Type:
( ) Clay
( ) Sand
( ) Organic
( ) Gravel

Equipment Used for Collection:
( ) Gravity Corer
( ) Stainless Steel Split Spoon
( ) Dredge
( ) Hand Spoon
( ) Aluminum Pans
( ) Stainless Steel Bucket
( ) _____

Decontamination Fluids Used:
( ) Ethyl Alcohol
( ) 25% Methanol/75% ASTM Type II Water
( ) Deionized Water
( ) Liquinox Solution
( ) Hexane
( ) HNO_3 Solution
( ) Potable Water
( ) None

Sample Observations:
( ) Odor _____
( ) Color _____
( ) _____

Field QC Data: ( ) Field Duplicate Collected
Duplicate ID _____

SAMPLES COLLECTED

Check if Required at this Location	Matrix: Surface Water	Matrix: Sediment	Check if Preserved with Acid/Base	Volume Required	Check if Sample Collected	Sample Bottle IDs			
	✓		HCL/NaOH/HNO_3	2.5 L	✓				

NOTES/SKETCH

EA ENGINEERING, SCIENCE, AND TECHNOLOGY, INC.

FIELD RECORD OF SURFACE WATER AND SEDIMENT SAMPLING

Project: NASB - Brunswick			Site: SEEP - 05
Project Number: 29600.47			Date: 3/19/95
Sample Location ID: BN - 01 - EP - SP - 05			Sample Team Members: CC, BDA
Time:	Start:	End:	Signature of Sampler:

SURFACE WATER INFORMATION

Water Depth and Sample Location .25 (ft)

Depth of Sample from Top of Water .17 (ft)

Type of Surface Water:
( ) Stream ( ) River
( ) Pond/Lake (✓) Seep

Equipment Used for Collection:
(✓) None. Grab into Bottle (Dedicated)
( ) Bomb Sampler
( ) Pump _____

Decontamination Fluids Used:
( ) Ethyl Alcohol
( ) 25% Methanol/75% ASTM Type II Water
( ) Deionized Water
( ) Liquinox Solution
( ) Hexane
( ) HNO_3 Solution
( ) Potable Water
(✓) None

Velocity Measurements Obtained? (✓) No ( ) Yes, See Flow Measurement Data Record _____

Temperature 16.0 Degree C. Specific Conductivity 450 µmhos/cm pH 6.76 Units Dissolved Oxygen 3.60 ppm

Field QC Data: ( ) Field Duplicate Collected
Duplicate ID _____

Sample Location Sketch:
( ) Yes
( ) No

Method Used:
( ) Winkler
( ) Probe
Turb NA

SEDIMENT INFORMATION

Type of Sample Collected:
( ) Discrete
( ) Composite

Sediment Type:
( ) Clay
( ) Sand
( ) Organic
( ) Gravel

Equipment Used for Collection:
( ) Gravity Corer
( ) Stainless Steel Split Spoon
( ) Dredge
( ) Hand Spoon
( ) Aluminum Pans
( ) Stainless Steel Bucket
( ) _____

Decontamination Fluids Used:
( ) Ethyl Alcohol
( ) 25% Methanol/75% ASTM Type II Water
( ) Deionized Water
( ) Liquinox Solution
( ) Hexane
( ) HNO_3 Solution
( ) Potable Water
( ) None

Sample Observations:
( ) Odor _____
( ) Color _____
( ) _____

Field QC Data: ( ) Field Duplicate Collected
Duplicate ID _____

SAMPLES COLLECTED

Check if Required at this Location	Matrix: Surface Water	Matrix: Sediment	Check if Preserved with Acid/Base	Volume Required	Check if Sample Collected	Sample Bottle IDs			
	✓		HCL/NAOH/HNO_3	2.5L	✓				

NOTES/SKETCH

Appendix C

Analytical Data Quality Review

APPENDIX C - CONTENTS

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REFERENCES

APPENDIX C

REVIEW OF ANALYTICAL QUALITY CONTROL

C.1 INTRODUCTION

Aqueous (ground-water, surface water, and leachate seeps) and sediment samples were collected at Sites 1 and 3, and ground-water samples were collected from the Eastern Plume site. For the combined analyses for both Sites 1 and 3 and Eastern Plume, one sediment sample delivery group (SDG) and four aqueous SDGs were provided to the laboratory.

Analytical quality control were reviewed for compliance with the data quality objectives (DQOs) of precision and accuracy for each sample and analysis type, including field quality control blanks (trip, field and rinsate blanks), and field sample duplication. Table C-1 compares the DQOs to the observed results for the volatile organic parameters. Analytical precision was based upon the mean relative percent difference (RPD) values from the matrix spike/matrix spike duplicates (MS/MSD). Accuracy was based upon the reported spike recoveries for the MS/MSD and surrogate (system monitoring compound) recoveries for the samples. MS/MSD measure the effect of the sample matrix on the digestion and measurement methodology. Known quantities of target compounds are spiked into the sample matrix and recoveries are used to measure potential bias due to matrix effects. Surrogates measure the ability of the laboratory to extract the targeted analytes by evaluating the recovery of indicator compounds which are structurally similar to some of the targeted analytes. These are used as indicators for all of the analytes. Completeness was quantified by reviewing the number of usable results to the number of samples scheduled for collection. Review of this table shows that the calculated mean values of precision and accuracy were within the DQO ranges established for these parameters. Some individual results were outside of control limits, but none of these resulted in the rejection of any of the data.

The range of individual results for the DQO parameters are discussed for each sample matrix in the following subsections.

C.2 ACCURACY

C.2.1 Volatile Organic Compounds

Three system monitoring compounds were used to quantify the surrogate recoveries in the samples. The Quality Assurance Project Plan contained in the LTMP (ABB-ES 1994) specified the use of EPA Method 8260, however, the system monitoring compounds and system monitoring compound recovery control limits presented in the Quality Assurance Project Plan

are from U.S. Environmental Protection Agency (EPA) Method 8240. EPA Method 8260 was performed by the laboratory and the reported control limits for EPA Method 8260 will be used for this assessment.

All water system monitoring compound recoveries were reported within their individual control limits, and were usable as reported. All sediment system monitoring compound recoveries were reported within their individual control limits, except for one system monitoring compound (bromofluorobenzene) in the low level analyses of two samples (EPSDDUP and EPSD007). The laboratory re-extracted the sample (per the method), and comparable recoveries resulted indicating the potential for matrix interference. The reported results (positives and non-detects) in these two sediment samples should be considered estimates, with the potential for slight low bias in the reported concentrations.

MS/MSD sets were analyzed at the correct frequency for sediment samples, and 4 of the 5 aqueous SDGs. In aqueous SDG No. EPMW202A, greater than 20 samples were reported under the MS/MSD provided with the SDG. However, review of SDG No. 09MW903 (associated with Site 9) showed that some of the samples in the SDG No. EPMW202A correspond to the MS/MSD run under SDG No. 09MW903. Therefore, the Quality Assurance Project Plan quality control requirement of no more than 20 samples per MS/MSD was met.

Five volatile organic compounds are used to quantify the MS/MSD recoveries. A sediment MS/MSD was performed for the medium level samples only, and the recoveries were within the control limits specified in the Quality Assurance Project Plan (ABB-ES 1994). The four sets of aqueous MS/MSD analyses (representing 4 of the 5 aqueous SDGs) also showed recoveries within the control limits specified in the Quality Assurance Project Plan (ABB-ES 1994). Trichloroethene recovery in the MS/MSD set for SDG EPFB001 exceeded the upper control limits. This indicates that the sample matrix is affecting the accuracy of the methodology. This has no effect on data quality since EPA Region I does not have any usability actions based upon MS/MSD accuracy.

C.2.2 Inorganic Analytes

For inorganic analyses, accuracy is quantified by using pre- and post-digestion spikes. Post-digestion spikes or analytical spike recoveries are used to measure accuracy of the graphite furnace methodology, specific to only a few Target Analyte List metals. Pre-digestion spikes are applied to inductively coupled plasma, flame atomic absorption, and ultraviolet/visible spectroscopy analyses.

One sediment and one aqueous SDG were prepared for inorganic parameters from Sites 1 and 3. All sample spike recoveries were within the control limits for the aqueous samples. For the parameters analyzed by graphite furnace, three (arsenic, lead, and selenium) had analytical spike

recoveries reported outside of the control limits (laboratory flag "W"). The extent of the bias could not be determined since the analytical backup data were not provided for the inorganic analyses.

All sample spike recoveries were reported within the control limits for the sediment samples, except for antimony, lead, and silver (laboratory flag "N"). The reported recoveries were below the lower control limit, indicating that reported results (positives and non-detects) in these parameters in the sediment samples should be considered estimates, with the potential for low bias in the reported concentrations. For the parameters analyzed by graphite furnace, two (selenium and thallium) reported analytical spike recoveries outside of the control limits (laboratory flag "W"). The extent of the bias could not be determined since the analytical backup data were not provided for the inorganic analyses.

C.3 PRECISION

C.3.1 Volatile Organic Compounds

MS/MSD sets were analyzed at the correct frequency for the sediment and 4 of the 5 aqueous SDGs. In aqueous SDG EPMW202A, greater than 20 samples were reported under the MS/MSD provided with the SDG. However, review of SDG No. 09MW903 showed that some of the samples in the SDG No. EPMW202A correspond to the MS/MSD run under SDG No. 09MW903. Therefore, the Quality Assurance Project Plan quality control requirement of no more than 20 samples per MS/MSD was met.

Five volatile organic compounds are used to quantify the MS/MSD RPD. One sediment MS/MSD was performed for the medium level samples only, and the RPD were within the control limits specified in the Quality Assurance Project Plan (ABB-ES 1994). All aqueous RPD (5 SDGs) were within the control limits.

Four RPD in the MS/MSD set for SDG EPFB001 exceeded the upper control limits. This indicates that the sample matrix is affecting the precision of the methodology. However, this has no effect on data quality since EPA Region I does not have any usability actions based upon MS/MSD precision.

C.3.2 Inorganic Analytes

For inorganic analyses, analytical precision is quantified by calculating the RPD between laboratory duplicated sample analyses. Duplicate sample analyses were observed within the control limits for the aqueous samples. For the sediment samples, two analytes (arsenic and iron) exhibited duplicate RPD above the control limit. The reported positive results for these two analytes should be considered estimates (bias undetermined) in the sediment samples.

C.4 COMPLETENESS

Completeness was quantified by reviewing the number of usable results to the number of samples scheduled for collection. Ground-water samples were collected from 46 of the 56 planned locations for the organic parameters. Ten wells/piezometers could not be sampled due to site limitations (e.g., well destroyed during construction of slurry wall). Samples for inorganic analyses were inadvertently not collected from the ground-water wells associated with Sites 1 and 3. Ground-water samples for inorganic analyses will be collected from these locations during the next quarterly event. All surface water, sediment, and leachate seep samples were collected for analyses as planned.

Field quality control blanks (e.g., trip blanks) were collected at the proper frequency, except as follows. No trip blank was associated with 2 samples (MW-229A and MW-319); these samples were bracketed by trip blanks. One rinse blank was taken for the 8 sediment samples collected at Sites 1 and 3 over a two-day period; the Quality Assurance Project Plan requires one rinse blank be collected per day. All laboratory quality control analyses (e.g., MS/MSD) were performed at the proper frequency.

C.5 FIELD QUALITY CONTROL BLANKS

The field quality control blanks collected at Sites 1 and 3 and Eastern Plume included 1 equipment blank (pump system blank), 1 source water blank (identified as a field blank), 1 equipment rinse blank, and 4 trip blanks. The source water blank was reported free of detectable volatile analytes with the exception of a low concentration of methylene chloride (6 μg/L); however, this compound was also present in the corresponding method blank (laboratory flag "B"). The source water blank also contained low concentrations of 3 Target Analyte List analytes: mercury (0.24 μg/L), sodium (24.1 μg/L), and zinc (7.09 μg/L).

The equipment blank collected using a dedicated submersible pump assembly contained a low concentration of methylene chloride (3 μg/L); this compound was also present in the corresponding method blank (laboratory flag "B"). The presence of methylene chloride in this blank is, therefore, likely a laboratory artifact.

The equipment rinse blank collected from a decontaminated stainless steel hand trowel (used for sediment sampling) contained low concentrations of methylene chloride (7 μg/L) and acetone (26 μg/L); these compounds were also present in the corresponding method blank (laboratory flag "B"). The presence of methylene chloride in these blanks is, therefore, likely a laboratory artifact. The rinse blank collected during sediment sampling also reported low concentrations (lower than Contract Required Detection Limit) of 8 analytes: aluminum, calcium, iron, manganese, mercury, sodium, vanadium, and zinc. The reported low concentrations of these analytes may be associated with an incomplete rinse sequence during field decontamination conducted in cold weather.

The table below summarizes the compounds detected in the trip blanks submitted with the samples collected from Sites 1 and 3 and Eastern Plume:

Trip Blank Number	Analyte	Reported Result (µg/L)
TB002	Methylene chloride	6
TB002	Tetrachloroethane	1
TB004	1,1,1-Trichloroethane	11
TB004	1,1-Dichloroethene	2
TB004	1,2-Dichloroethene	8
TB004	Acetone	2
TB004	Methylene chloride	4
TB004	Trichloroethene	2
TB005	Methylene chloride	2
TB006	Methylene chloride	3

The acetone and methylene chloride reported in the trip blanks are likely due to laboratory contamination, although not all of the reported concentrations of these analytes were flagged by the laboratory. The presence of chlorinated compounds in TB004 indicates the potential for cross-contamination by these analytes in the samples that were stored in shipped with this trip blank.

C.5.1 Duplicate Field Samples

Duplicate field samples were collected from MW-219, MW-233, MW-225B, MW-305, SW-7, and SED-7. Sample duplication was calculated using the RPD between the original and duplicated results. There were no detectable volatile organics in MW-219/MW-219 Dup.

The RPD results for analytes reported in MW-223/MW-223 Dup are shown in the table below:

Analyte	MW223 Result (µg/L)	MW223 Dup Result (µg/L)	RPD (%)
Methylene chloride	1	1	0.0
Trichloroethene	2	3	40.0
Tetrachloroethene	1	1	0.0
Acetone	7	8	13.0

The reported analytes showed good agreement between the original and duplicate sample collection with the exception of trichloroethene. The high RPD of trichloroethene may be indicative measurement error typically experiences at concentrations below the Contract Required Detection Limit. This does not necessarily indicate poor field sampling precision.

The RPD results for anlaytes reported in MW-225/MW-225 Dup are shown in the table below:

Analyte	MW225B Result (µg/L)	MW225B Dup Result (µg/L)	RPD (%)
Methylene chloride	1	2	66.7
Trichloroethene	8	8	0.0
Tetrachloroethene	3	3	0.0
1,2-Dichloroethene	ND	15	200.0

The large RPD for methylene chloride was not considered to be significant because this compound was also reported in the associated method blanks for these samples (laboratory "B" flag). Trichloroethene and tetrachloroethene yielded the same results between the two analyses. It is not apparent why the 1,2-Dichloroethene results vary between the two analyses.

The RPD results for analytes reported in MW-305/MW-305 Dup are shown in the table below:

Analyte	MW305 Result (µg/L)	MW305 Dup Result (µg/L)	RPD (%)
Methylene chloride	1	4	120.0

The large RPD was not considered to be significant in this case since methylene chloride was also reported in the method blanks associated with these samples (laboratory "B" flag). Its presence is, therefore, likely due to laboratory contamination.

The RPD results for analytes reported in SW-7/SW-7 Dup are shown in the table below:

Analyte	SW-7 Result (µg/L)	SW-7 Dup Result (µg/L)	RPD (%)
Acetone	64	ND	200.0
Methylene chloride	2	3	40.0
1,1,2,2-Tetrachloroethane	2	ND	200.0
2-Hexanone	3	ND	200.0
Aluminum	401	218	59.1

Analyte	SW-7 Result (µg/L)	SW-7 Dup Result (µg/L)	RPD (%)
Barium	16.8	16.3	3.0
Calcium	6,510	6,750	3.6
Cobalt	ND	2.9	200.0
Copper	ND	13.5	200.0
Iron	701	707	0.9
Magnesium	1,590	1,600	0.6
Manganese	160	181	12.3
Potassium	1,490	1,690	12.6
Selenium	1.6	ND	200.0
Sodium	11,000	10,900	0.9
Vanadium	3.2	3.2	0.0
Zinc	13.6	12.6	7.6
Cyanide	ND	2.7	200.0

The large RPD for acetone was not considered significant since this analyte is a common laboratory contaminant. Methylene chloride was also reported in the corresponding method blanks and, therefore, is not likely a true sample constituent; 1,1,2,2-Tetrachloroethane and 2-hexanone high RPD are likely due to concentrations reported below the Contract Required Quantitation Limit (laboratory flag "J"), where there is a greater potential for error in measurement. The inorganic parameters showed good agreement between the two analyses, with the exception of cobalt, copper, selenium, and cyanide. All of these concentrations were present below the Contract Required Detection Limit (laboratory "B" flag), suggesting that some of the differences may also be attributable to errors in quantitation at low concentrations. There is no apparent reason for the high RPD for aluminum since both concentrations were well above the Contract Required Detection Limit.

The RPD results for anlaytes reported in SED-7/SED-7 Dup are shown in the table below:

Analyte	Units	SED-7	SED-7 Dup	RPD (%)
Acetone	µg/Kg	20	25	22.2
Methylene chloride	µg/Kg	2	4	66.7
2-Butanone	µg/Kg	3	ND	200.0

Analyte	Units	SED-7	SED-7 Dup	RPD (%)
Aluminum	mg/Kg	4,880	4,690	4.0
Arsenic	mg/Kg	5.8	5.9	1.7
Barium	mg/Kg	40.7	42.5	4.3
Beryllium	mg/Kg	0.36	0.35	2.8
Cadmium	mg/Kg	0.3	0.33	9.5
Calcium	mg/Kg	1,170	1,080	8.0
Chromium	mg/Kg	10.3	9.6	7.0
Cobalt	mg/Kg	5.2	5.5	5.6
Copper	mg/Kg	6.9	6.6	4.4
Iron	mg/Kg	17,500	18,000	2.8
Lead	mg/Kg	22.1	22.2	0.5
Magnesium	mg/Kg	1,840	1,830	0.5
Manganese	mg/Kg	160	181	12.3
Nickel	mg/Kg	8.2	8.7	5.9
Potassium	mg/Kg	926	937	1.2
Selenium	mg/Kg	0.3	0.22	30.8
Sodium	mg/Kg	95.1	99.7	4.7
Vanadium	mg/Kg	15.3	14.6	4.7
Zinc	mg/Kg	49.9	48.1	3.7

Methylene chloride was also reported in the corresponding method blanks and, therefore, is not likely a true sample constituent. There was good agreement for the acetone results, but since this chemical is a common laboratory contaminant, it may not be a true sample constituent. The high variability for 2-butanone is likely due to the quantitation at low concentrations (sub-Contract Required Detection Limit). The inorganic parameters showed good agreement between the two analyses with the exception of selenium which is likely due to quantitation at low concentrations where potential for error in quantitation is likely to occur.

TABLE C-1 SUMMARY OF MEAN ACCURACY AND PRECISION RESULTS FOR VOLATILE ORGANIC COMPOUND ANALYSES

Matrix	SDG No.	Mean Accuracy Surrogate Recoveries			Mean Accuracy MS/MSD Recoveries		Mean Precision RPD
		80-120	81-117	74-121	MS	MSD	%
Sediment	EPSD001(L)	102.3	91.0	71.8	85.0	95.0	11.2
	EPSD001(M)	106.2	99.2	99.2	---	---	---
		86-118	88-110	86-115			
Aqueous	EPFB001	106.8	100.6	98.9	95.8	114.2	17.2
	EPMW202A	104.6	102.2	98.2	102.2	103.2	2.6
	EPMW207B	102.4	98.6	97.8	107.6	110.2	4.0
	EPMW106	103.5	101.0	97.4	94.0	97.6	3.6
					94.8	101.2	7.2

NOTE: Sediment samples in Sample Delivery Group (SDG) No. EPSD001 were run at low and medium levels.
Values shown are mean recoveries or relative percent difference (RPD) from all of the samples in theSDGs.
MS/MSD = Matrix spike/matrix spike duplicate.

APPENDIX C - REFERENCES

ABB Environmental Services, Inc. (ABB-ES). 1994. Final Long-Term Monitoring Plan for Building 95, Sites 1 and 3 and Eastern Plume, Naval Air Station, Brunswick, Maine. August.

Appendix D

Summary Tables for Analyses of Tentatively Identified Compounds

TABLE D-1 SUMMARY OF TENTATIVELY IDENTIFIED COMPOUNDS REPORTED IN GROUND-WATER SAMPLES COLLECTED 28 MARCH 1995 AT SITES 1 AND 3, NAVAL AIR STATION, BRUNSWICK, MAINE

Compound	MW-202A	MW-202B	MW-203	MW-204	MW-210B	MW-216B	MW-217A	MW-217B	MW-218
VOLATILE ORGANIC COMPOUNDS BY EPA METHOD 8260 (µg/L)									
2-Propanol (RT 5.82 min)									40JN
2-Propanol (RT 5.85 min)		23JN							
Unknown (RT 18.12 min)	9J								
Unknown C9H12 (RT 20.12 min)	6J								
Unknown C9H12 (RT 20.39 min)		17J							
Unknown C9H12 (RT 20.41 min)	25J								
Unknown (RT 22.26 min)		6JB							
Unknown (RT 22.27 min)					6JB				
Unknown (RT 22.28 min)		52JB						5JB	7JB
Unknown (RT 22.29 min)									

NOTE: Only those analytes detected in at least one of the samples are shown on this table. Samples not analyzed for Target Analyte List elements.
J = Estimated concentration below detection limit.
B = Compound detected in associated method blank.
JN = Presumptive identification, estimated values.

Compound	MW-219	MW-219 DUP	MW-220	MW-232A	TB-004	TB-006	EQ-001
VOLATILE ORGANIC COMPOUNDS BY EPA METHOD 8260 (µg/L)							
2-Propanol (RT 5.82 min)							
2-Propanol (RT 5.85 min)							
Unknown (RT 18.12 min)							
Unknown C9H12 (RT 20.12 min)							
Unknown C9H12 (RT 20.39 min)							
Unknown C9H12 (RT 20.41 min)							
Unknown (RT 22.26min)			8JB				
Unknown (RT 22.27 min)	10JB						
Unknown (RT 22.28 min)							
Unknown (RT 22.29 min)		8JB					

NOTE: EQ = Pump equipment blank.
TB = Trip blank.

TABLE D-2 SUMMARY OF TENTATIVELY IDENTIFIED COMPOUNDS REPORTED IN GROUND-WATER SAMPLES COLLECTED 21-30 MARCH 1995 AT EASTERN PLUME, NAVAL AIR STATION, BRUNSWICK, MAINE

Compound	MW-105B	MW-106	MW-205	MW-206A	MW-206B	MW-207A	MW-207B	MW-208	MW-209	MW-222	MW-223	MW-223 DUP
VOLATILE ORGANIC COMPOUNDS BY EPA METHOD 8260 (µg/L)												
2-Propanol (RT 5.68 min)												
2-Propanol (RT 5.79 min)							110JN					
2-Propanol (RT 5.81 min)												
2-Propanol (RT 5.83 min)												
2-Propanol (RT 5.84 min)							130JN					
2-Propanol (RT 5.85 min)												5JN
Unknown (RT 22.26 min)						13JB						
Unknown (RT 22.27 min)												
Unknown (RT 22.28 min)												13JB
Decanal (RT 24.35 min)											6JN	

NOTE: Only those analytes detected in at least one of the samples are shown on this table.
J = Estimated concentration below detection limit.
B = Compound detected in associated method blank.
JN = Presumptive identification, estimated value.

Compound	MW-224	MW-225A	MW-225B	MW-225B DUP	MW-229A	MW-230A	MW-231A	MW-231B	MW-303	MW-305	MW-305 DUP
VOLATILE ORGANIC COMPOUNDS BY EPA METHOD 8260 (µg/L)											
2-Propanol (RT 5.68 min)											
2-Propanol (RT 5.79 min)											
2-Propanol (RT 5.81 min)											
2-Propanol (RT 5.83 min)											
2-Propanol (RT 5.84 min)											
2-Propanol (RT 5.85 min)											
Unknown (RT 22.26 min)											
Unknown (RT 22.27 min)											
Unknown (RT 22.28 min)											
Decanal (RT 24.35 min)											

Compound	MW-306	MW-307	MW-308	MW-309A	MW-309B	MW-310	MW-313	MW-318	MW-319	MW-1104
VOLATILE ORGANIC COMPOUNDS BY EPA METHOD 8260 (µg/L)										
2-Propanol (RT 5.68 min)										
2-Propanol (RT 5.79 min)										
2-Propanol (RT 5.81 min)										
2-Propanol (RT 5.83 min)							12JN			
2-Propanol (RT 5.84 min)										
2-Propanol (RT 5.85 min)										
Unknown (RT 22.26 min)										
Unknown (RT 22.27 min)							8JB			13JB
Unknown (RT 22.28 min)										
Decanal (RT 24.35 min)										

Compound	P-105	P-106	P-111	P-132	TB-002	TB-003	TB-004	TB-005	TB-006	EQ-001
VOLATILE ORGANIC COMPOUNDS BY EPA METHOD 8260 (µg/L)										
2-Propanol (RT 5.68 min)				24JN						
2-Propanol (RT 5.79 min)										
2-Propanol (RT 5.81 min)			3JN							
2-Propanol (RT 5.83 min)		8JN								
2-Propanol (RT 5.84 min)										
2-Propanol (RT 5.85 min)	40JN									
Unknown (RT 22.26 min)										
Unknown (RT 22.27 min)	420JB									
Unknown (RT 22.28 min)										
Decanal (RT 24.35 min)										

NOTE: TB = Trip blank.
EQ = Pump equipment blank.

TABLE D-3 SUMMARY OF TENTATIVELY IDENTIFIED COMPOUNDS REPORTED IN SEDIMENT SAMPLES COLLECTED 19-20 MARCH 1995 AT SITES 1 AND 3, NAVAL AIR STATION, BRUNSWICK, MAINE

Analyte	SED-1	SED-2	SED -3	SED-4	SED-5	SED-6	SED-7	SED-7 DUP	RB-001
VOLATILE ORGANIC COMPOUNDS BY EPA METHOD 8260 (µg/kg)									
2-Propanol (RT 5.83 min)			960JNB						
2-Propanol (RT 5.88 min)									240JN
2-Propanol (RT 6.05 min)	1,900JN								
N-(pentafluorobenzyllinde)-betn (RT 22.24 min)			14JN						
Unknown (RT 22.25 min)						8J			

NOTE: Only those analytes detected in at least one of the samples are shown on this table.
B = Compound detected in associated method blank.
J = Estimated concentration below detection limit.
JN = Presumptive identification, estimated value.
RB = Equipment rinsate blank.

TABLE D-4 SUMMARY OF TENTATIVELY IDENTIFIED COMPOUNDS REPORTED IN SEEP SAMPLES COLLECTED 19-20 MARCH 1995 AT SITES 1 AND 3, NAVAL AIR STATION, BRUNSWICK, MAINE

Analyte	SEEP-1	SEEP-2	SEEP-3	SEEP-4	SEEP-5	TB-001
VOLATILE ORGANIC COMPOUNDS BY EPA METHOD 8260 (µg/L)						
Unknown Alkane (RT21.64 min)		7J				
Unknown Alkane (RT 23.34 min)		11J				
Unknown Alkane (RT 23.58 min)		6J				
Unknown Alkane (RT 24.35 min)		5J				
Unknown Alkane (RT 24.51 min)		8J				
Unknown Alkane (RT 24.93 min)		19J				
Unknown Alkane (RT 26.11 min)		8J				
Unknown Alkane (RT 26.42 min)		24J				

NOTE: Only those analytes detected in at least one of the samples are shown on this table.
J = Estimated concentration below detection limit.
TB = Trip blank.

Appendix E

Analytical Report Data Tables

Appendix E.1

Ground-Water Samples
Sites 1 and 3

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0470-4
Report Date: 04/13/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW202A	Aqueous	▸	03/28/95	03/29/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Volatile Organics by EPA 8260 Dilution								1,2
Chloromethane	<50.	µg/L	10.0	5.0	EPA 8260	04/02/95	DR	
Bromomethane	<50.	µg/L	10.0	5.0	EPA 8260	04/02/95	DR	
Vinyl chloride	J11.	µg/L	10.0	2.0	EPA 8260	04/02/95	DR	
Chloroethane	<20.	µg/L	10.0	2.0	EPA 8260	04/02/95	DR	
Methylene chloride	JB12	µg/L	10.0	3.0	EPA 8260	04/02/95	DR	
Acetone	52.	µg/L	10.0	5.0	EPA 8260	04/02/95	DR	
Carbon disulfide	<50.	µg/L	10.0	5.0	EPA 8260	04/02/95	DR	
1,1-Dichloroethene	<10.	µg/L	10.0	1.0	EPA 8260	04/02/95	DR	
1,1-Dichloroethane	<20.	µg/L	10.0	2.0	EPA 8260	04/02/95	DR	
Total 1,2-Dichloroethene	<20.	µg/L	10.0	2.0	EPA 8260	04/02/95	DR	
Chloroform	<50.	µg/L	10.0	5.0	EPA 8260	04/02/95	DR	
1,2-Dichloroethane	<20.	µg/L	10.0	2.0	EPA 8260	04/02/95	DR	
2-Butanone	<50.	µg/L	10.0	5.0	EPA 8260	04/02/95	DR	
1,1,1-Trichloroethane	<20.	µg/L	10.0	2.0	EPA 8260	04/02/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) "J" flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.
(2) "B" flag denotes detection of this analyte in the laboratory method blank analyzed concurrently with the sample.

04/13/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0470-4
Report Date: 04/13/95
PO No. : 802LSOA
Project : 29600.47

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW202A	Aqueous	▸	03/28/95	03/29/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Carbon tetrachloride	<50.	µg/L	10.0	5.0	EPA 8260	04/02/95	DR	
Bromodichloromethane	<50.	µg/L	10.0	5.0	EPA 8260	04/02/95	DR	
1,2-Dichloropropane	<25.	µg/L	10.0	2.5	EPA 8260	04/02/95	DR	
cis-1,3-Dichloropropene	<50.	µg/L	10.0	5.0	EPA 8260	04/02/95	DR	
Trichloroethene	<25.	µg/L	10.0	2.5	EPA 8260	04/02/95	DR	
Dibromochloromethane	<50.	µg/L	10.0	5.0	EPA 8260	04/02/95	DR	
1,1,2-Trichloroethane	<50.	µg/L	10.0	5.0	EPA 8260	04/02/95	DR	
Benzene	<20.	µg/L	10.0	2.0	EPA 8260	04/02/95	DR	
trans-1,3-Dichloropropene	<50.	µg/L	10.0	5.0	EPA 8260	04/02/95	DR	
Bromoform	<50.	µg/L	10.0	5.0	EPA 8260	04/02/95	DR	
4-Methyl-2-pentanone	<30.	µg/L	10.0	3.0	EPA 8260	04/02/95	DR	
2-Hexanone	<40.	µg/L	10.0	4.0	EPA 8260	04/02/95	DR	
Tetrachloroethene	<20.	µg/L	10.0	2.0	EPA 8260	04/02/95	DR	
1,1,2,2-Tetrachloroethane	<50.	µg/L	10.0	5.0	EPA 8260	04/02/95	DR	
Toluene	110.	µg/L	10.0	2.0	EPA 8260	04/02/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0470-4
Report Date: 04/13/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW202A	Aqueous	▸	03/28/95	03/29/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chlorobenzene	J29.	µg/L	10.0	5.0	EPA 8260	04/02/95	DR	
Ethylbenzene	430.	µg/L	10.0	2.0	EPA 8260	04/02/95	DR	
Styrene	<20.	µg/L	10.0	2.0	EPA 8260	04/02/95	DR	
Total Xylenes	1300.	µg/L	10.0	2.0	EPA 8260	04/02/95	DR	
Dibromofluoromethane (Surr.)	104.	%	10.0		EPA 8260	04/02/95	DR	
Toluene-d8 (Surr.)	105.	%	10.0		EPA 8260	04/02/95	DR	
p-Bromofluorobenzene (Surr.)	99.	%	10.0		EPA 8260	04/02/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/13/95

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1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE. INC.	SDG No.:	EPMW202A
Matrix (soil/water)	Water	Lab Sample ID:	EPMW202ADL
Sample wt/vol:	5 (g/ml) ml	Lab File ID:	Y8120
Level: (low/med)	low	Date Received:	3/29/95
% Moisture: not dec.	N/A	Date Analyzed:	4/2/95
GC Column:	RTX-624 ID: 0.53	Dilution Factor:	10.0
Soil Extract Volume:	0 (ul)	Soil Aliquot Volume:	0 (ul)

Number of TIC's Found: 0

CONCENTRATION UNITS
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0470-4
Report Date: 04/13/95
PO No. : 802LSOA
Project : 29600.47

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED	DATE RECEIVED
EPMW202A	Aqueous	▸	03/28/95	03/29/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Volatile Organics by EPA 8260								1,2,3
Chloromethane	<5.	µg/L	1.0	5.0	EPA 8260	04/01/95	DR	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	04/01/95	DR	
Vinyl chloride	10.	µg/L	1.0	2.0	EPA 8260	04/01/95	DR	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/01/95	DR	
Methylene chloride	B3	µg/L	1.0	3.0	EPA 8260	04/01/95	DR	
Acetone	18.	µg/L	1.0	5.0	EPA 8260	04/01/95	DR	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	04/01/95	DR	
1,1-Dichloroethene	<1.	µg/L	1.0	1.0	EPA 8260	04/01/95	DR	
1,1-Dichloroethane	8.	µg/L	1.0	2.0	EPA 8260	04/01/95	DR	
Total 1,2-Dichloroethene	3.	µg/L	1.0	2.0	EPA 8260	04/01/95	DR	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	04/01/95	DR	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/01/95	DR	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	04/01/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

(1) "J" flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.

(2) "B" flag denotes detection of this analyte in the laboratory method blank analyzed concurrently with the sample.

(3) "E" flag indicates an estimated value. The analyte was detected in the sample at a concentration greater than the standard calibration range.

04/13/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0470-4
Report Date: 04/13/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW202A	Aqueous	▸	03/28/95	03/29/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
1,1,1-Trichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/01/95	DR	
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	04/01/95	DR	
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	04/01/95	DR	
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	04/01/95	DR	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	04/01/95	DR	
Trichloroethene	<2.5	µg/L	1.0	2.5	EPA 8260	04/01/95	DR	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	04/01/95	DR	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	04/01/95	DR	
Benzene	J1.	µg/L	1.0	2.0	EPA 8260	04/01/95	DR	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	04/01/95	DR	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	04/01/95	DR	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	04/01/95	DR	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	04/01/95	DR	
Tetrachloroethene	<2.	µg/L	1.0	2.0	EPA 8260	04/01/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/13/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0470-4
Report Date: 04/13/95
PO No. : 802LSQA
Project : 29600.47

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW202A	Aqueous	▸	03/28/95	03/29/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	04/01/95	DR	
Toluene	91.	µg/L	1.0	2.0	EPA 8260	04/01/95	DR	
Chlorobenzene	24.	µg/L	1.0	5.0	EPA 8260	04/01/95	DR	
Ethylbenzene	E310	µg/L	1.0	2.0	EPA 8260	04/01/95	DR	
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	04/01/95	DR	
Total Xylenes	E960	µg/L	1.0	2.0	EPA 8260	04/01/95	DR	
Dibromofluoromethane (Surr.)	108.	%	1.0		EPA 8260	04/01/95	DR	
Toluene-d8 (Surr.)	101.	%	1.0		EPA 8260	04/01/95	DR	
p-Bromofluorobenzene (Surr.)	95.	%	1.0		EPA 8260	04/01/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/13/95

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Respectfully submitted,
PACE, INC.

Laura J. O'Meara
Laura J. O'Meara
Supervisor, Client Services

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1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: PACE, INC.
SDG No.: EPMW202A
Matrix (soil/water): Water
Lab Sample ID: EPMW202A
Sample wt/vol: 5 (g/ml) ml
Lab File ID: Y8099
Level: (low/med) low
Date Received: 3/29/95
% Moisture: not dec. N/A
Date Analyzed: 4/1/95
GC Column: RTX-624 ID: 0.53
Dilution Factor: 1.0
Soil Extract Volume: 0 (ul)
Soil Aliquot Volume: 0 (ul)

Number of TIC's Found: 4
CONCENTRATION UNITS (ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 124389	Carbon Dioxide	2.13	8	JNB
2.	Unknown	18.12	9	J
3.	C9 H12 isomer	20.12	6	J
4.	C9 H12 isomer	20.41	25	J
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0499-7
Report Date: 04/19/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW202B	Aqueous	B.ANDERSEN	03/30/95	03/30/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Volatile Organics by EPA 8260 Dilution								1,2,3
Chloromethane	<50.	µg/L	10.0	5.0	EPA 8260	04/11/95	CB	
Bromomethane	<50.	µg/L	10.0	5.0	EPA 8260	04/11/95	CB	
Vinyl chloride	<20.	µg/L	10.0	2.0	EPA 8260	04/11/95	CB	
Chloroethane	<20.	µg/L	10.0	2.0	EPA 8260	04/11/95	CB	
Methylene chloride	B23	µg/L	10.0	3.0	EPA 8260	04/11/95	CB	
Acetone	B990	µg/L	10.0	5.0	EPA 8260	04/11/95	CB	
Carbon disulfide	<50.	µg/L	10.0	5.0	EPA 8260	04/11/95	CB	
1,1-Dichloroethene	<10.	µg/L	10.0	1.0	EPA 8260	04/11/95	CB	
1,1-Dichloroethane	21.	µg/L	10.0	2.0	EPA 8260	04/11/95	CB	
Total 1,2-Dichloroethene	<20.	µg/L	10.0	2.0	EPA 8260	04/11/95	CB	
Chloroform	<50.	µg/L	10.0	5.0	EPA 8260	04/11/95	CB	
1,2-Dichloroethane	<20.	µg/L	10.0	2.0	EPA 8260	04/11/95	CB	
2-Butanone	<50.	µg/L	10.0	5.0	EPA 8260	04/11/95	CB	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) "J" flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.
(2) "B" flag denotes detection of this analyte in the laboratory method blank analyzed concurrently with the sample.
(3) Sample dilution required for quantitation of one or more target analytes; therefore, standard laboratory Practical Quantitation Level (PQL) could not be achieved.

04/19/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0499-7
Report Date: 04/19/95
PO No. : 802LSQA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW202B	Aqueous	B.ANDERSEN	03/30/95	03/30/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
1,1,1-Trichloroethane	<20.	µg/L	10.0	2.0	EPA 8260	04/11/95	CB	
Carbon tetrachloride	<50.	µg/L	10.0	5.0	EPA 8260	04/11/95	CB	
Bromodichloromethane	<50.	µg/L	10.0	5.0	EPA 8260	04/11/95	CB	
1,2-Dichloropropane	<25.	µg/L	10.0	2.5	EPA 8260	04/11/95	CB	
cis-1,3-Dichloropropene	<50.	µg/L	10.0	5.0	EPA 8260	04/11/95	CB	
Trichloroethene	<25.	µg/L	10.0	2.5	EPA 8260	04/11/95	CB	
Dibromochloromethane	<50.	µg/L	10.0	5.0	EPA 8260	04/11/95	CB	
1,1,2-Trichloroethane	<50.	µg/L	10.0	5.0	EPA 8260	04/11/95	CB	
Benzene	<20.	µg/L	10.0	2.0	EPA 8260	04/11/95	CB	
trans-1,3-Dichloropropene	<50.	µg/L	10.0	5.0	EPA 8260	04/11/95	CB	
Bromoform	<50.	µg/L	10.0	5.0	EPA 8260	04/11/95	CB	
4-Methyl-2-pentanone	<30.	µg/L	10.0	3.0	EPA 8260	04/11/95	CB	
2-Hexanone	<40.	µg/L	10.0	4.0	EPA 8260	04/11/95	CB	
Tetrachloroethene	<20.	µg/L	10.0	2.0	EPA 8260	04/11/95	CB	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/19/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0499-7
Report Date: 04/19/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW2023	Aqueous	B.ANDERSEN	03/30/95	03/30/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
1,1,2,2-Tetrachloroethane	<50.	µg/L	10.0	5.0	EPA 8260	04/11/95	CB	
Toluene	J11.	µg/L	10.0	2.0	EPA 8260	04/11/95	CB	
Chlorobenzene	<50.	µg/L	10.0	5.0	EPA 8260	04/11/95	CB	
Ethylbenzene	330.	µg/L	10.0	2.0	EPA 8260	04/11/95	CB	
Styrene	<20.	µg/L	10.0	2.0	EPA 8260	04/11/95	CB	
Total Xylenes	230.	µg/L	10.0	2.0	EPA 8260	04/11/95	CB	
Dibromofluoromethane (Surr.)	105.	%	10.0		EPA 8260	04/11/95	CB	
Toluene-d8 (Surr.)	101.	%	10.0		EPA 8260	04/11/95	CB	
p-Bromofluorobenzene (Surr.)	101.	%	10.0		EPA 8260	04/11/95	CB	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/19/95

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1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.:	EPMW207B
Matrix (soil/water)	Water	Lab Sample ID:	EPMW202BDL
Sample wt/vol:	5 (g/ml) ml	Lab File ID:	Y8336
Level: (low/med)	low	Date Received:	3/31/95
% Moisture: not dec.	N/A	Date Analyzed:	4/11/95
GC Column:	RTX-624 ID: 0.53	Dilution Factor:	10.0
Soil Extract Volume:	0 (ul)	Soil Aliquot Volume:	0 (ul)

Number of TIC's Found: 1

CONCENTRATION UNITS (ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	22.28	52	JB
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0499-7
Report Date: 04/19/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW202B	Aqueous	B.ANDERSEN	03/30/95	03/30/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Volatile Organics by EPA 8260								1,2,3
Chloromethane	<5.	µg/L	1.0	5.0	EPA 8260	04/08/95	DR	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	04/08/95	DR	
Vinyl chloride	<2.	µg/L	1.0	2.0	EPA 8260	04/08/95	DR	
Chloroethane	2.	µg/L	1.0	2.0	EPA 8260	04/08/95	DR	
Methylene chloride	JB2	µg/L	1.0	3.0	EPA 8260	04/08/95	DR	
Acetone	BE820	µg/L	1.0	5.0	EPA 8260	04/08/95	DR	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	04/08/95	DR	
1,1-Dichloroethene	<1.	µg/L	1.0	1.0	EPA 8260	04/08/95	DR	
1,1-Dichloroethane	15.	µg/L	1.0	2.0	EPA 8260	04/08/95	DR	
Total 1,2-Dichloroethene	<2.	µg/L	1.0	2.0	EPA 8260	04/08/95	DR	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	04/08/95	DR	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/08/95	DR	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	04/08/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

(1) "J" flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.

(2) "B" flag denotes detection of this analyte in the laboratory method blank analyzed concurrently with the sample.

(3) "E" flag indicates an estimated value. The analyte was detected in the sample at a concentration greater than the standard calibration range.

04/19/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0499-7
Report Date: 04/19/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW202B	Aqueous	B.ANDERSEN	03/30/95	03/30/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
1,1,1-Trichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/08/95	DR	
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	04/08/95	DR	
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	04/08/95	DR	
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	04/08/95	DR	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	04/08/95	DR	
Trichloroethene	<2.5	µg/L	1.0	2.5	EPA 8260	04/08/95	DR	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	04/08/95	DR	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	04/08/95	DR	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	04/08/95	DR	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	04/08/95	DR	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	04/08/95	DR	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	04/08/95	DR	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	04/08/95	DR	
Tetrachloroethene	<2.	µg/L	1.0	2.0	EPA 8260	04/08/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/19/95

LJO/jcbgbp(dw)/sra/tjg
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0499-7
Report Date: 04/19/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW202B	Aqueous	B.ANDERSEN	03/30/95	03/30/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	04/08/95	DR	
Toluene	<2.	µg/L	1.0	2.0	EPA 8260	04/08/95	DR	
Chlorobenzene	8.	µg/L	1.0	5.0	EPA 8260	04/08/95	DR	
Ethylbenzene	E300	µg/L	1.0	2.0	EPA 8260	04/08/95	DR	
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	04/08/95	DR	
Total Xylenes	E280	µg/L	1.0	2.0	EPA 8260	04/08/95	DR	
Dibromofluoromethane (Surr.)	99.	%	1.0		EPA 8260	04/08/95	DR	
Toluene-d8 (Surr.)	98.	%	1.0		EPA 8260	04/08/95	DR	
p-Bromofluorobenzene (Surr.)	101.	%	1.0		EPA 8260	04/08/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/19/95

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1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.:	EPMW207B
Matrix (soil/water)	Water	Lab Sample ID:	EPMW202B
Sample wt/vol:	5 (g/ml) ml	Lab File ID:	Y8271
Level: (low/med)	low	Date Received:	3/31/95
% Moisture: not dec.	N/A	Date Analyzed:	4/8/95
GC Column:	RTX-624 ID: 0.53	Dilution Factor:	1.0
Soil Extract Volume:	0 (ul)	Soil Aliquot Volume:	0 (ul)

Number of TIC's Found: 4

CONCENTRATION UNITS (ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 124389	Carbon Dioxide	2.18	15	JNB
2. 67630	2-Propanol	5.85	23	JN
3.	C9 H12 isomer	20.39	17	J
4.	Unknown	22.26	6	JB
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pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0470-3
Report Date: 04/13/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW203	Aqueous	▸	03/28/95	03/29/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Volatile Organics by EPA 8260								1,2
Chloromethane	<5.	µg/L	1.0	5.0	EPA 8260	04/01/95	DR	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	04/01/95	DR	
Vinyl chloride	<2.	µg/L	1.0	2.0	EPA 8260	04/01/95	DR	
Chloroethane	2.	µg/L	1.0	2.0	EPA 8260	04/01/95	DR	
Methylene chloride	JB2	µg/L	1.0	3.0	EPA 8260	04/01/95	DR	
Acetone	J3.	µg/L	1.0	5.0	EPA 8260	04/01/95	DR	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	04/01/95	DR	
1,1-Dichloroethene	<1.	µg/L	1.0	1.0	EPA 8260	04/01/95	DR	
1,1-Dichloroethane	2.	µg/L	1.0	2.0	EPA 8260	04/01/95	DR	
Total 1,2-Dichloroethene	<2.	µg/L	1.0	2.0	EPA 8260	04/01/95	DR	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	04/01/95	DR	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/01/95	DR	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	04/01/95	DR	
1,1,1-Trichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/01/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) "J" flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.
(2) "B" flag denotes detection of this analyte in the laboratory method blank analyzed concurrently with the sample.

04/13/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0470-3
Report Date: 04/13/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW203	Aqueous	▸	03/28/95	03/29/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	04/01/95	DR	
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	04/01/95	DR	
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	04/01/95	DR	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	04/01/95	DR	
Trichloroethene	<2.5	µg/L	1.0	2.5	EPA 8260	04/01/95	DR	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	04/01/95	DR	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	04/01/95	DR	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	04/01/95	DR	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	04/01/95	DR	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	04/01/95	DR	
4-Methyl-2-pentanone	J1.	µg/L	1.0	3.0	EPA 8260	04/01/95	DR	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	04/01/95	DR	
Tetrachloroethene	<2.	µg/L	1.0	2.0	EPA 8260	04/01/95	DR	
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	04/01/95	DR	
Toluene	<2.	µg/L	1.0	2.0	EPA 8260	04/01/95	DR	

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04/13/95

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REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0470-3
Report Date: 04/13/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW203	Aqueous	▸	03/28/95	03/29/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	04/01/95	DR	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	04/01/95	DR	
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	04/01/95	DR	
Total Xylenes	J1.	µg/L	1.0	2.0	EPA 8260	04/01/95	DR	
Dibromofluoromethane (Surr.)	109.	%	1.0		EPA 8260	04/01/95	DR	
Toluene-d8 (Surr.)	99.	%	1.0		EPA 8260	04/01/95	DR	
p-Bromofluorobenzene (Surr.)	90.	%	1.0		EPA 8260	04/01/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

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1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.:	EPMW202A
Matrix (soil/water)	Water	Lab Sample ID:	EPMW203
Sample wt/vol:	5 (g/ml) ml	Lab File ID:	Y8098
Level: (low/med)	low	Date Received:	3/29/95
% Moisture: not dec.	N/A	Date Analyzed:	4/1/95
GC Column:	RTX-624 ID: 0.53	Dilution Factor:	1.0
Soil Extract Volume:	0 (ul)	Soil Aliquot Volume:	0 (ul)

Number of TIC's Found: 1

CONCENTRATION UNITS
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 124389	Carbon Dioxide	2.15	7	JNB
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0470-1
Report Date: 04/13/95
PO No. : 802LSOA
Project : 29600.47

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW204	Aqueous	▸	03/28/95	03/29/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Volatile Organics by EPA 8260								1
Chloromethane	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
Vinyl chloride	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
Methylene chloride	<3.	µg/L	1.0	3.0	EPA 8260	04/06/95	DR	
Acetone	J1.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
1,1-Dichloroethene	<1.	µg/L	1.0	1.0	EPA 8260	04/06/95	DR	
1,1-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
Total 1,2-Dichloroethene	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
1,1,1-Trichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) "J" flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.

04/13/95

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REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0470-1
Report Date: 04/13/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW204	Aqueous	▸	03/28/95	03/29/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	04/06/95	DR	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
Trichloroethene	J1.	µg/L	1.0	2.5	EPA 8260	04/06/95	DR	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	04/06/95	DR	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	04/06/95	DR	
Tetrachloroethene	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
Toluene	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/13/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0470-1
Report Date: 04/13/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW204	Aqueous	▸	03/28/95	03/29/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
Total Xylenes	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
Dibromofluoromethane (Surr.)	102.	%	1.0		EPA 8260	04/06/95	DR	
Toluene-d8 (Surr.)	100.	%	1.0		EPA 8260	04/06/95	DR	
p-Bromofluorobenzene (Surr.)	99.	%	1.0		EPA 8260	04/06/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/13/95

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1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.:	EPMW202A
Matrix (soil/water)	Water	Lab Sample ID:	EPMW204
Sample wt/vol:	5 (g/ml) ml	Lab File ID:	Y8211
Level: (low/med)	low	Date Received:	3/29/95
% Moisture: not dec.	N/A	Date Analyzed:	4/6/95
GC Column:	RTX-624 ID: 0.53	Dilution Factor:	1.0
Soil Extract Volume:	0 (ul)	Soil Aliquot Volume:	0 (ul)

Number of TIC's Found: 0

CONCENTRATION UNITS
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0470-7
Report Date: 04/13/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW210B	Aqueous	▸	03/28/95	03/29/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Volatile Organics by EPA 8260								1
Chloromethane	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
Vinyl chloride	18.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
Methylene chloride	<3.	µg/L	1.0	3.0	EPA 8260	04/06/95	DR	
Acetone	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
1,1-Dichloroethene	<1.	µg/L	1.0	1.0	EPA 8260	04/06/95	DR	
1,1-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
Total 1,2-Dichloroethene	2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
1,1,1-Trichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	

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(1) "J" flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0470-7
Report Date: 04/13/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW210B	Aqueous	▸	03/28/95	03/29/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	04/06/95	DR	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
Trichloroethene	<2.5	µg/L	1.0	2.5	EPA 8260	04/06/95	DR	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	04/06/95	DR	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	04/06/95	DR	
Tetrachloroethene	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
Toluene	J1.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
Chlorobenzene	J3.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
Ethylbenzene	4.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/13/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0470-7
Report Date: 04/13/95
PO No. : 802LSOA
Project : 29600.47

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW210B	Aqueous	▸	03/28/95	03/29/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
Total Xylenes	4.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
Dibromofluoromethane (Surr.)	103.	%	1.0		EPA 8260	04/06/95	DR	
Toluene-d8 (Surr.)	102.	%	1.0		EPA 8260	04/06/95	DR	
p-Bromofluorobenzene (Surr.)	101.	%	1.0		EPA 8260	04/06/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/13/95

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1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: PACE, INC.
SDG No.: EPMW202A
Matrix (soil/water): Water
Lab Sample ID: EPMW210B
Sample wt/vol: 5 (g/ml) ml
Lab File ID: Y8213
Level: (low/med) low
Date Received: 3/29/95
% Moisture: not dec. N/A
Date Analyzed: 4/6/95
GC Column: RTX-624 ID: 0.53
Dilution Factor: 1.0
Soil Extract Volume: 0 (ul)
Soil Aliquot Volume: 0 (ul)

Number of TIC's Found: 2
CONCENTRATION UNITS (ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 124389	Carbon Dioxide	2.18	20	JNB
2.	Unknown	22.27	6	JB
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0470-13
Report Date: 04/13/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW216B	Aqueous	▸	03/28/95	03/29/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Volatile Organics by EPA 8260								1,2
Chloromethane	<50.	µg/L	10	5.0	EPA 8260	04/02/95	DR	
Bromomethane	<50.	µg/L	10	5.0	EPA 8260	04/02/95	DR	
Vinyl chloride	290.	µg/L	10	2.0	EPA 8260	04/02/95	DR	
Chloroethane	<20.	µg/L	10	2.0	EPA 8260	04/02/95	DR	
Methylene chloride	JB11	µg/L	10	3.0	EPA 8260	04/02/95	DR	
Acetone	200.	µg/L	10	5.0	EPA 8260	04/02/95	DR	
Carbon disulfide	<50.	µg/L	10	5.0	EPA 8260	04/02/95	DR	
1,1-Dichloroethene	<10.	µg/L	10	1.0	EPA 8260	04/02/95	DR	
1,1-Dichloroethane	<20.	µg/L	10	2.0	EPA 8260	04/02/95	DR	
Total 1,2-Dichloroethene	520.	µg/L	10	2.0	EPA 8260	04/02/95	DR	
Chloroform	<50.	µg/L	10	5.0	EPA 8260	04/02/95	DR	
1,2-Dichloroethane	<20.	µg/L	10	2.0	EPA 8260	04/02/95	DR	
2-Butanone	<50.	µg/L	10	5.0	EPA 8260	04/02/95	DR	
1,1,1-Trichloroethane	<20.	µg/L	10	2.0	EPA 8260	04/02/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) "J" flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.
(2) "B" flag denotes detection of this analyte in the laboratory method blank analyzed concurrently with the sample.

04/13/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0470-13
Report Date: 04/13/95
PO No. : 802LSQA
Project : 29600.47

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW216B	Aqueous	►	03/28/95	03/29/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Carbon tetrachloride	<50.	µg/L	10	5.0	EPA 8260	04/02/95	DR	
Bromodichloromethane	<50.	µg/L	10	5.0	EPA 8260	04/02/95	DR	
1,2-Dichloropropane	<25.	µg/L	10	2.5	EPA 8260	04/02/95	DR	
cis-1,3-Dichloropropene	<50.	µg/L	10	5.0	EPA 8260	04/02/95	DR	
Trichloroethene	<25.	µg/L	10	2.5	EPA 8260	04/02/95	DR	
Dibromochloromethane	<50.	µg/L	10	5.0	EPA 8260	04/02/95	DR	
1,1,2-Trichloroethane	<50.	µg/L	10	5.0	EPA 8260	04/02/95	DR	
Benzene	<20.	µg/L	10	2.0	EPA 8260	04/02/95	DR	
trans-1,3-Dichloropropene	<50.	µg/L	10	5.0	EPA 8260	04/02/95	DR	
Bromoform	<50.	µg/L	10	5.0	EPA 8260	04/02/95	DR	
4-Methyl-2-pentanone	<30.	µg/L	10	3.0	EPA 8260	04/02/95	DR	
2-Hexanone	<40.	µg/L	10	4.0	EPA 8260	04/02/95	DR	
Tetrachloroethene	<20.	µg/L	10	2.0	EPA 8260	04/02/95	DR	
1,1,2,2-Tetrachloroethane	<50.	µg/L	10	5.0	EPA 8260	04/02/95	DR	
Toluene	1300.	µg/L	10	2.0	EPA 8260	04/02/95	DR	

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04/13/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0470-13
Report Date: 04/13/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW216B	Aqueous	▸	03/28/95	03/29/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chlorobenzene	<50.	µg/L	10	5.0	EPA 8260	04/02/95	DR	
Ethylbenzene	49.	µg/L	10	2.0	EPA 8260	04/02/95	DR	
Styrene	<20.	µg/L	10	2.0	EPA 8260	04/02/95	DR	
Total Xylenes	270.	µg/L	10	2.0	EPA 8260	04/02/95	DR	
Dibromofluoromethane (Surr.)	104.	%	10		EPA 8260	04/02/95	DR	
Toluene-d8 (Surr.)	104.	%	10		EPA 8260	04/02/95	DR	
p-Bromofluorobenzene (Surr.)	97.	%	10		EPA 8260	04/02/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/13/95

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VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.:	EPMW202A
Matrix (soil/water)	Water	Lab Sample ID:	EPMW216B
Sample wt/vol:	5 (g/ml) ml	Lab File ID:	Y82122
Level: (low/med)	low	Date Received:	3/29/95
% Moisture: not dec.	N/A	Date Analyzed:	4/2/95
GC Column:	RTX-624 ID: 0.53	Dilution Factor:	10.0
Soil Extract Volume:	0 (ul)	Soil Aliquot Volume:	0 (ul)

Number of TIC's Found: 0

CONCENTRATION UNITS (ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0470-5
Report Date: 04/13/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW217A	Aqueous	▸	03/28/95	03/29/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Volatile Organics by EPA 8260								1,2
Chloromethane	<5.	µg/L	1.0	5.0	EPA 8260	04/01/95	DR	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	04/01/95	DR	
Vinyl chloride	<2.	µg/L	1.0	2.0	EPA 8260	04/01/95	DR	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/01/95	DR	
Methylene chloride	JB2	µg/L	1.0	3.0	EPA 8260	04/01/95	DR	
Acetone	J3.	µg/L	1.0	5.0	EPA 8260	04/01/95	DR	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	04/01/95	DR	
1,1-Dichloroethene	<1.	µg/L	1.0	1.0	EPA 8260	04/01/95	DR	
1,1-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/01/95	DR	
Total 1,2-Dichloroethene	<2.	µg/L	1.0	2.0	EPA 8260	04/01/95	DR	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	04/01/95	DR	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/01/95	DR	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	04/01/95	DR	
1,1,1-Trichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/01/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) "J" flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.
(2) "B" flag denotes detection of this analyte in the laboratory method blank analyzed concurrently with the sample.

04/13/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0470-5
Report Date: 04/13/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW217A	Aqueous	▸	03/28/95	03/29/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	04/01/95	DR	
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	04/01/95	DR	
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	04/01/95	DR	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	04/01/95	DR	
Trichloroethene	<2.5	µg/L	1.0	2.5	EPA 8260	04/01/95	DR	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	04/01/95	DR	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	04/01/95	DR	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	04/01/95	DR	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	04/01/95	DR	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	04/01/95	DR	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	04/01/95	DR	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	04/01/95	DR	
Tetrachloroethene	<2.	µg/L	1.0	2.0	EPA 8260	04/01/95	DR	
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	04/01/95	DR	
Toluene	<2.	µg/L	1.0	2.0	EPA 8260	04/01/95	DR	

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04/13/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0470-5
Report Date: 04/13/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW217A	Aqueous	▸	03/28/95	03/29/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	04/01/95	DR	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	04/01/95	DR	
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	04/01/95	DR	
Total Xylenes	3.	µg/L	1.0	2.0	EPA 8260	04/01/95	DR	
Dibromofluoromethane (Surr.)	118.	%	1.0		EPA 8260	04/01/95	DR	
Toluene-d8 (Surr.)	99.	%	1.0		EPA 8260	04/01/95	DR	
p-Bromofluorobenzene (Surr.)	95.	%	1.0		EPA 8260	04/01/95	DR	

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04/13/95

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VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.:	EPMW202A
Matrix (soil/water)	Water	Lab Sample ID:	EPMW217A
Sample wt/vol:	5 (g/ml) ml	Lab File ID:	Y8100
Level: (low/med)	low	Date Received:	3/29/95
% Moisture: not dec.	N/A	Date Analyzed:	4/1/95
GC Column:	RTX-624 ID: 0.53	Dilution Factor:	1.0
Soil Extract Volume:	0 (ul)	Soil Aliquot Volume:	0 (ul)

Number of TIC's Found: 1

CONCENTRATION UNITS (ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 124389	Carbon Dioxide	2.14	7	JNB
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0470-11
Report Date: 04/13/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW217B	Aqueous	▸	03/28/95	03/29/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Volatile Organics by EPA 8260								1
Chloromethane	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
Vinyl chloride	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
Methylene chloride	<3.	µg/L	1.0	3.0	EPA 8260	04/06/95	DR	
Acetone	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
1,1-Dichloroethene	<1.	µg/L	1.0	1.0	EPA 8260	04/06/95	DR	
1,1-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
Total 1,2-Dichloroethene	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
1,1,1-Trichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	

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(1) "J" flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.

04/13/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0470-11
Report Date: 04/13/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW217B	Aqueous	▸	03/28/95	03/29/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	04/06/95	DR	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
Trichloroethene	J2.	µg/L	1.0	2.5	EPA 8260	04/06/95	DR	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	04/06/95	DR	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	04/06/95	DR	
Tetrachloroethene	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
Toluene	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	

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04/13/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0470-11
Report Date: 04/13/95
PO No. : 802LSQA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW217B	Aqueous	▸	03/28/95	03/29/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
Total Xylenes	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
Dibromofluoromethane (Surr.)	103.	%	1.0		EPA 8260	04/06/95	DR	
Toluene-d8 (Surr.)	103.	%	1.0		EPA 8260	04/06/95	DR	
p-Bromofluorobenzene (Surr.)	99.	%	1.0		EPA 8260	04/06/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/13/95

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.:	EPMW202A
Matrix (soil/water)	Water	Lab Sample ID:	EPMW217B
Sample wt/vol:	5 (g/ml) ml	Lab File ID:	Y8217
Level: (low/med)	low	Date Received:	3/29/95
% Moisture: not dec.	N/A	Date Analyzed:	4/6/95
GC Column:	RTX-624 ID: 0.53	Dilution Factor:	1.0
Soil Extract Volume:	0 (ul)	Soil Aliquot Volume:	0 (ul)

Number of TIC's Found: 1

CONCENTRATION UNITS
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	22.28	5	JB
2.				
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pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0470-8
Report Date: 04/13/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW218	Aqueous	▸	03/28/95	03/29/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Volatile Organics by EPA 8260								
Chloromethane	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
Vinyl chloride	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
Methylene chloride	<3.	µg/L	1.0	3.0	EPA 8260	04/06/95	DR	
Acetone	27.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
1,1-Dichloroethene	<1.	µg/L	1.0	1.0	EPA 8260	04/06/95	DR	
1,1-Dichloroethane	4.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
Total 1,2-Dichloroethene	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
1,1,1-Trichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/13/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0470-8
Report Date: 04/13/95
PO No. : 802LSOA
Project : 29600.47

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW218	Aqueous	▸	03/28/95	03/29/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	04/06/95	DR	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
Trichloroethene	<2.5	µg/L	1.0	2.5	EPA 8260	04/06/95	DR	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	04/06/95	DR	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	04/06/95	DR	
Tetrachloroethene	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
Toluene	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
Total Xylenes	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	

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04/13/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0470-8
Report Date: 04/13/95
PO No. : 802LSQA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW218	Aqueous	▸	03/28/95	03/29/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Dibromofluoromethane (Surr.)	107.	%	1.0		EPA 8260	04/06/95	DR	
Toluene-d8 (Surr.)	103.	%	1.0		EPA 8260	04/06/95	DR	
p-Bromofluorobenzene (Surr.)	102.	%	1.0		EPA 8260	04/06/95	DR	

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04/13/95

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VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.:	EPMW202A
Matrix (soil/water)	Water	Lab Sample ID:	EPMW218
Sample wt/vol:	5 (g/ml) ml	Lab File ID:	Y8214
Level: (low/med)	low	Date Received:	3/29/95
% Moisture: not dec.	N/A	Date Analyzed:	4/6/95
GC Column:	RTX-624 ID: 0.53	Dilution Factor:	1.0
Soil Extract Volume:	0 (ul)	Soil Aliquot Volume:	0 (ul)

Number of TIC's Found: 3

CONCENTRATION UNITS (ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 124389	Carbon Dioxide	2.20	12	JNB
2. 67630	2-Propanol	5.82	40	JN
3.	Unknown	22.28	7	JB
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0470-9
Report Date: 04/13/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW219	Aqueous	▸	03/28/95	03/29/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Volatile Organics by EPA 8260								
Chloromethane	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
Vinyl chloride	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
Methylene chloride	<3.	µg/L	1.0	3.0	EPA 8260	04/06/95	DR	
Acetone	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
1,1-Dichloroethene	<1.	µg/L	1.0	1.0	EPA 8260	04/06/95	DR	
1,1-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
Total 1,2-Dichloroethene	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
1,1,1-Trichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/13/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0470-9
Report Date: 04/13/95
PO No. : 802LSOA
Project : 29600.47

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW219	Aqueous	►	03/28/95	03/29/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	04/06/95	DR	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
Trichloroethene	<2.5	µg/L	1.0	2.5	EPA 8260	04/06/95	DR	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	04/06/95	DR	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	04/06/95	DR	
Tetrachloroethene	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
Toluene	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
Total Xylenes	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0470-9
Report Date: 04/13/95
PO No. : 802LSOA
Project : 29600.47

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW219	Aqueous	▸	03/28/95	03/29/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Dibromofluoromethane (Surr.)	105.	%	1.0		EPA 8260	04/06/95	DR	
Toluene-d8 (Surr.)	101.	%	1.0		EPA 8260	04/06/95	DR	
p-Bromofluorobenzene (Surr.)	98.	%	1.0		EPA 8260	04/06/95	DR	

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VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.:	EPMW202A
Matrix (soil/water)	Water	Lab Sample ID:	EPMW219
Sample wt/vol:	5 (g/ml) ml	Lab File ID:	Y8215
Level: (low/med)	low	Date Received:	3/29/95
% Moisture: not dec.	N/A	Date Analyzed:	4/6/95
GC Column:	RTX-624 ID: 0.53	Dilution Factor:	1.0
Soil Extract Volume:	0 (ul)	Soil Aliquot Volume:	0 (ul)

Number of TIC's Found: 1

CONCENTRATION UNITS (ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	22.27	10	JB
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0470-10
Report Date: 04/13/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMWDUP	Aqueous	▸	03/28/95	03/29/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Volatile Organics by EPA 8260								
Chloromethane	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
Vinyl chloride	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
Methylene chloride	<3.	µg/L	1.0	3.0	EPA 8260	04/06/95	DR	
Acetone	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
1,1-Dichloroethene	<1.	µg/L	1.0	1.0	EPA 8260	04/06/95	DR	
1,1-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
Total 1,2-Dichloroethene	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
1,1,1-Trichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	

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04/13/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0470-10
Report Date: 04/13/95
PO No. : 802LSOA
Project : 29600.47

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMWDUP	Aqueous	▸	03/28/95	03/29/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	04/06/95	DR	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
Trichloroethene	<2.5	µg/L	1.0	2.5	EPA 8260	04/06/95	DR	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	04/06/95	DR	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	04/06/95	DR	
Tetrachloroethene	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
Toluene	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
Total Xylenes	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	

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04/13/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0470-10
Report Date: 04/13/95
PO No. : 802LSQA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMWDUP	Aqueous	▸	03/28/95	03/29/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Dibromofluoromethane (Surr.)	105.	%	1.0		EPA 8260	04/06/95	DR	
Toluene-d8 (Surr.)	100.	%	1.0		EPA 8260	04/06/95	DR	
p-Bromofluorobenzene (Surr.)	98.	%	1.0		EPA 8260	04/06/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

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VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.:	EPMW202A
Matrix (soil/water)	Water	Lab Sample ID:	EPMWDUP
Sample wt/vol:	5 (g/ml) ml	Lab File ID:	Y8216
Level: (low/med)	low	Date Received:	3/29/95
% Moisture: not dec.	N/A	Date Analyzed:	4/6/95
GC Column:	RTX-624 ID: 0.53	Dilution Factor:	1.0
Soil Extract Volume:	0 (ul)	Soil Aliquot Volume:	0 (ul)

Number of TIC's Found: 1

CONCENTRATION UNITS (ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	22.29	8	JB
2.				
3.				
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0470-6
Report Date: 04/13/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW220	Aqueous	►	03/28/95	03/29/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Volatile Organics by EPA 8260								1,2
Chloromethane	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
Vinyl chloride	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
Methylene chloride	JB1	µg/L	1.0	3.0	EPA 8260	04/06/95	DR	
Acetone	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
1,1-Dichloroethene	<1.	µg/L	1.0	1.0	EPA 8260	04/06/95	DR	
1,1-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
Total 1,2-Dichloroethene	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
1,1,1-Trichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) "J" flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.
(2) "B" flag denotes detection of this analyte in the laboratory method blank analyzed concurrently with the sample.

04/13/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0470-6
Report Date: 04/13/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW220	Aqueous	▸	03/28/95	03/29/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	04/06/95	DR	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
Trichloroethene	<2.5	µg/L	1.0	2.5	EPA 8260	04/06/95	DR	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	04/06/95	DR	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	04/06/95	DR	
Tetrachloroethene	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
Toluene	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values

04/13/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0470-6
Report Date: 04/13/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW220	Aqueous	▸	03/28/95	03/29/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
Total Xylenes	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
Dibromofluoromethane (Surr.)	106.	%	1.0		EPA 8260	04/06/95	DR	
Toluene-d8 (Surr.)	100.	%	1.0		EPA 8260	04/06/95	DR	
p-Bromofluorobenzene (Surr.)	102.	%	1.0		EPA 8260	04/06/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/13/95

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1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.:	EPMW202A
Matrix (soil/water)	Water	Lab Sample ID:	EPMW220
Sample wt/vol:	5 (g/ml) ml	Lab File ID:	Y8212
Level: (low/med)	low	Date Received:	3/29/95
% Moisture: not dec.	N/A	Date Analyzed:	4/6/95
GC Column:	RTX-624 ID: 0.53	Dilution Factor:	1.0
Soil Extract Volume:	0 (ul)	Soil Aliquot Volume:	0 (ul)

Number of TIC's Found: 1

CONCENTRATION UNITS (ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	22.26	8	JB
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0470-12
Report Date: 04/13/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW232A	Aqueous	▸	03/28/95	03/29/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Volatile Organics by EPA 8260								
Chloromethane	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
Vinyl chloride	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
Methylene chloride	<3.	µg/L	1.0	3.0	EPA 8260	04/06/95	DR	
Acetone	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
1,1-Dichloroethene	<1.	µg/L	1.0	1.0	EPA 8260	04/06/95	DR	
1,1-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
Total 1,2-Dichloroethene	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
1,1,1-Trichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/13/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0470-12
Report Date: 04/13/95
PO No. : 802LSOA
Project : 29600.47

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW232A	Aqueous	▸	03/28/95	03/29/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	04/06/95	DR	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
Trichloroethene	<2.5	µg/L	1.0	2.5	EPA 8260	04/06/95	DR	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	04/06/95	DR	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	04/06/95	DR	
Tetrachloroethene	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
Toluene	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
Total Xylenes	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/13/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0470-12
Report Date: 04/13/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW232A	Aqueous	▸	03/28/95	03/29/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Dibromofluoromethane (Surr.)	99.	%	1.0		EPA 8260	04/06/95	DR	
Toluene-d8 (Surr.)	98.	%	1.0		EPA 8260	04/06/95	DR	
p-Bromofluorobenzene (Surr.)	98.	%	1.0		EPA 8260	04/06/95	DR	

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04/13/95

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.:	EPMW202A
Matrix (soil/water)	Water	Lab Sample ID:	EPMW232A
Sample wt/vol:	5 (g/ml) ml	Lab File ID:	Y8218
Level: (low/med)	low	Date Received:	3/29/95
% Moisture: not dec.	N/A	Date Analyzed:	4/6/95
GC Column:	RTX-624 ID: 0.53	Dilution Factor:	1.0
Soil Extract Volume:	0 (ul)	Soil Aliquot Volume:	0 (ul)

Number of TIC's Found: 0

CONCENTRATION UNITS
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0470-14
Report Date: 04/13/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPTB004	Aqueous	▸	03/28/95	03/29/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Volatile Organics by EPA 8260								1,2
Chloromethane	<5.	µg/L	1.0	5.0	EPA 8260	04/02/95	DR	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	04/02/95	DR	
Vinyl chloride	<2.	µg/L	1.0	2.0	EPA 8260	04/02/95	DR	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/02/95	DR	
Methylene chloride	B4	µg/L	1.0	3.0	EPA 8260	04/02/95	DR	
Acetone	J2.	µg/L	1.0	5.0	EPA 8260	04/02/95	DR	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	04/02/95	DR	
1,1-Dichloroethene	<1.	µg/L	1.0	1.0	EPA 8260	04/02/95	DR	
1,1-Dichloroethane	2.	µg/L	1.0	2.0	EPA 8260	04/02/95	DR	
Total 1,2-Dichloroethene	8.	µg/L	1.0	2.0	EPA 8260	04/02/95	DR	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	04/02/95	DR	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/02/95	DR	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	04/02/95	DR	
1,1,1-Trichloroethane	11.	µg/L	1.0	2.0	EPA 8260	04/02/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) "J" flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.
(2) "B" flag denotes detection of this analyte in the laboratory method blank analyzed concurrently with the sample.

04/13/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0470-14
Report Date: 04/13/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPTB004	Aqueous	▸	03/28/95	03/29/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	04/02/95	DR	
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	04/02/95	DR	
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	04/02/95	DR	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	04/02/95	DR	
Trichloroethene	J2.	µg/L	1.0	2.5	EPA 8260	04/02/95	DR	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	04/02/95	DR	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	04/02/95	DR	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	04/02/95	DR	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	04/02/95	DR	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	04/02/95	DR	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	04/02/95	DR	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	04/02/95	DR	
Tetrachloroethene	<2.	µg/L	1.0	2.0	EPA 8260	04/02/95	DR	
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	04/02/95	DR	
Toluene	<2.	µg/L	1.0	2.0	EPA 8260	04/02/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/13/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0470-14
Report Date: 04/13/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPTB004	Aqueous	▸	03/28/95	03/29/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	04/02/95	DR	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	04/02/95	DR	
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	04/02/95	DR	
Total Xylenes	<2.	µg/L	1.0	2.0	EPA 8260	04/02/95	DR	
Dibromofluoromethane (Surr.)	103.	%	1.0		EPA 8260	04/02/95	DR	
Toluene-d8 (Surr.)	105.	%	1.0		EPA 8260	04/02/95	DR	
p-Bromofluorobenzene (Surr.)	95.	%	1.0		EPA 8260	04/02/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/13/95

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.:	EPMW202A
Matrix (soil/water)	Water	Lab Sample ID:	EPTB004
Sample wt/vol:	5 (g/ml) ml	Lab File ID:	Y82123
Level: (low/med)	low	Date Received:	3/29/95
% Moisture: not dec.	N/A	Date Analyzed:	4/2/95
GC Column:	RTX-624 ID: 0.53	Dilution Factor:	1.0
Soil Extract Volume:	0 (ul)	Soil Aliquot Volume:	0 (ul)

Number of TIC's Found: 0

CONCENTRATION UNITS
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0499-8
Report Date: 04/19/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPTB006	Aqueous	B.ANDERSEN	03/30/95	03/31/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Volatile Organics by EPA 8260								
Chloromethane	<5.	µg/L	1.0	5.0	EPA 8260	04/10/95	CB	1
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	04/10/95	CB	
Vinyl chloride	<2.	µg/L	1.0	2.0	EPA 8260	04/10/95	CB	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/10/95	CB	
Methylene chloride	B3	µg/L	1.0	3.0	EPA 8260	04/10/95	CB	
Acetone	<5.	µg/L	1.0	5.0	EPA 8260	04/10/95	CB	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	04/10/95	CB	
1,1-Dichloroethene	<1.	µg/L	1.0	1.0	EPA 8260	04/10/95	CB	
1,1-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/10/95	CB	
Total 1,2-Dichloroethene	<2.	µg/L	1.0	2.0	EPA 8260	04/10/95	CB	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	04/10/95	CB	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/10/95	CB	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	04/10/95	CB	
1,1,1-Trichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/10/95	CB	
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	04/10/95	CB	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) "B" flag denotes detection of this analyte in the laboratory method blank analyzed concurrently with the sample.

04/19/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0499-8
Report Date: 04/19/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPTB006	Aqueous	B.ANDERSEN	03/30/95	03/31/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	04/10/95	CB	
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	04/10/95	CB	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	04/10/95	CB	
Trichloroethene	<2.5	µg/L	1.0	2.5	EPA 8260	04/10/95	CB	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	04/10/95	CB	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	04/10/95	CB	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	04/10/95	CB	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	04/10/95	CB	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	04/10/95	CB	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	04/10/95	CB	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	04/10/95	CB	
Tetrachloroethene	<2.	µg/L	1.0	2.0	EPA 8260	04/10/95	CB	
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	04/10/95	CB	
Toluene	<2.	µg/L	1.0	2.0	EPA 8260	04/10/95	CB	
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	04/10/95	CB	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	04/10/95	CB	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/19/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0499-8
Report Date: 04/19/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED	DATE RECEIVED
EPTB006	Aqueous	B.ANDERSEN	03/30/95	03/31/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	04/10/95	CB	
Total Xylenes	<2.	µg/L	1.0	2.0	EPA 8260	04/10/95	CB	
Dibromofluoromethane (Surr.)	106.	%	1.0		EPA 8260	04/10/95	CB	
Toluene-d8 (Surr.)	97.	%	1.0		EPA 8260	04/10/95	CB	
p-Bromofluorobenzene (Surr.)	98.	%	1.0		EPA 8260	04/10/95	CB	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

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1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.:	EPMW207B
Matrix (soil/water)	Water	Lab Sample ID:	EPTB006
Sample wt/vol:	5 (g/ml) ml	Lab File ID:	Y8316
Level: (low/med)	low	Date Received:	3/31/95
% Moisture: not dec.	N/A	Date Analyzed:	4/10/95
GC Column:	RTX-624 ID: 0.53	Dilution Factor:	1.0
Soil Extract Volume:	0 (ul)	Soil Aliquot Volume:	0 (ul)

Number of TIC's Found: 0

CONCENTRATION UNITS (ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0485-10
Report Date: 04/13/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPEQ001	Aqueous	B. ANDERSEN	03/29/95	03/30/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Volatile Organics by EPA 8260								1
Chloromethane	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
Vinyl chloride	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
Methylene chloride	B3	µg/L	1.0	3.0	EPA 8260	04/06/95	DR	
Acetone	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
1,1-Dichloroethene	<1.	µg/L	1.0	1.0	EPA 8260	04/06/95	DR	
1,1-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
Total 1,2-Dichloroethene	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
1,1,1-Trichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) "B" flag denotes detection of this analyte in the laboratory method blank analyzed concurrently with the sample.

04/13/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0485-10
Report Date: 04/13/95
PO No. : 802LSQA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED	DATE RECEIVED
EPEQ001	Aqueous	B. ANDERSEN	03/29/95	03/30/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	04/06/95	DR	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
Trichloroethene	<2.5	µg/L	1.0	2.5	EPA 8260	04/06/95	DR	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	04/06/95	DR	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	04/06/95	DR	
Tetrachloroethene	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
Toluene	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/13/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0485-10
Report Date: 04/13/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPEQ001	Aqueous	B. ANDERSEN	03/29/95	03/30/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
Total Xylenes	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
Dibromofluoromethane (Surr.)	106.	%	1.0		EPA 8260	04/06/95	DR	
Toluene-d8 (Surr.)	101.	%	1.0		EPA 8260	04/06/95	DR	
p-Bromofluorobenzene (Surr.)	92.	%	1.0		EPA 8260	04/06/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/13/95

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.:	EPMW202A
Matrix (soil/water)	Water	Lab Sample ID:	EPEQ001
Sample wt/vol:	5 (g/ml) ml	Lab File ID:	Y8222
Level: (low/med)	low	Date Received:	3/30/95
% Moisture: not dec.	N/A	Date Analyzed:	4/6/95
GC Column:	RTX-624 ID: 0.53	Dilution Factor:	1.0
Soil Extract Volume:	0 (ul)	Soil Aliquot Volume:	0 (ul)

Number of TIC's Found: 0

CONCENTRATION UNITS
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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Appendix E.2

Ground-Water Samples
Eastern Plume

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0457-2
Report Date: 04/12/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW105B	Aqueous	R. SHOCKLEY	03/24/95	03/24/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Volatile Organics by EPA 8260								1,2
Chloromethane	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
Vinyl chloride	<2.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	
Methylene chloride	JB1	µg/L	1.0	3.0	EPA 8260	03/30/95	DR	
Acetone	JB1	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
1,1-Dichloroethene	<1.	µg/L	1.0	1.0	EPA 8260	03/30/95	DR	
1,1-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	
Total 1,2-Dichloroethene	<2.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
1,1,1-Trichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values
(1) "J" flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.
(2) "B" flag denotes detection of this analyte in the laboratory method blank analyzed concurrently with the sample.

04/12/95

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REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0457-2
Report Date: 04/12/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW105B	Aqueous	R. SHOCKLEY	03/24/95	03/24/

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	03/30/95	DR	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
Trichloroethene	<2.5	µg/L	1.0	2.5	EPA 8260	03/30/95	DR	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	03/30/95	DR	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	03/30/95	DR	
Tetrachloroethene	<2.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	
1,1,2,2-Tetrachloroethane	J1.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
Toluene	<2.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samp-
specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values

04/12/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0457-2
Report Date: 04/12/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW105B	Aqueous	R. SHOCKLEY	03/24/95	03/24/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	
Total Xylenes	<2.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	
Dibromofluoromethane (Surr.)	110.	%	1.0		EPA 8260	03/30/95	DR	
Toluene-d8 (Surr.)	106.	%	1.0		EPA 8260	03/30/95	DR	
p-Bromofluorobenzene (Surr.)	106.	%	1.0		EPA 8260	03/30/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.:	EPMW106
Matrix (soil/water)	Water	Lab Sample ID:	EPMW105B
Sample wt/vol:	5 (g/ml) ml	Lab File ID:	Y8038
Level: (low/med)	low	Date Received:	3/24/95
% Moisture: not dec.	N/A	Date Analyzed:	3/30/95
GC Column:	RTX-624 ID: 0.53	Dilution Factor:	1.0
Soil Extract Volume:	0 (ul)	Soil Aliquot Volume:	0 (ul)

Number of TIC's Found: 0

CONCENTRATION UNITS
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0452-8
Report Date: 04/12/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW106	Aqueous	C. CORBETT	03/22/95	03/23/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Volatile Organics by EPA 8260								1,2
Chloromethane	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
Vinyl chloride	<2.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	
Methylene chloride	B4	µg/L	1.0	3.0	EPA 8260	03/30/95	DR	
Acetone	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
1,1-Dichloroethene	<1.	µg/L	1.0	1.0	EPA 8260	03/30/95	DR	
1,1-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	
Total 1,2-Dichloroethene	23.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
1,1,1-Trichloroethane	J1.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) "J" flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.
(2) "B" flag denotes detection of this analyte in the laboratory method blank analyzed concurrently with the sample.

04/12/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0452-8
Report Date: 04/12/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED	DATE RECEIVED
EPMW106	Aqueous	C. CORBETT	03/22/95	03/23/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	03/30/95	DR	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
Trichloroethene	12.	µg/L	1.0	2.5	EPA 8260	03/30/95	DR	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	03/30/95	DR	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	03/30/95	DR	
Tetrachloroethene	13.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
Toluene	<2.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0452-8
Report Date: 04/12/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW106	Aqueous	C. CORBETT	03/22/95	03/23/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	
Total Xylenes	<2.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	
Dibromofluoromethane (Surr.)	105.	%	1.0		EPA 8260	03/30/95	DR	
Toluene-d8 (Surr.)	100.	%	1.0		EPA 8260	03/30/95	DR	
p-Bromofluorobenzene (Surr.)	100.	%	1.0		EPA 8260	03/30/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

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1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: PACE, INC.
SDG No.: EPMW106
Matrix (soil/water): Water
Lab Sample ID: EPMW106
Sample wt/vol: 5 (g/ml) ml
Lab File ID: Y8027
Level: (low/med) low
Date Received: 3/23/95
% Moisture: not dec. N/A
Date Analyzed: 3/30/95
GC Column: RTX-624 ID: 0.53
Dilution Factor: 1.0
Soil Extract Volume: 0 (ul)
Soil Aliquot Volume: 0 (ul)

Number of TIC's Found: 0
CONCENTRATION UNITS (ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0457-1
Report Date: 04/12/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW205	Aqueous	R. SHOCKLEY	03/24/95	03/24/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Volatile Organics by EPA 8260								1,2
Chloromethane	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
Vinyl chloride	<2.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	
Methylene chloride	B3	µg/L	1.0	3.0	EPA 8260	03/30/95	DR	
Acetone	B42	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
1,1-Dichloroethene	13.	µg/L	1.0	1.0	EPA 8260	03/30/95	DR	
1,1-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	
Total 1,2-Dichloroethene	40.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
1,1,1-Trichloroethane	E250	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

(1) "B" flag denotes detection of this analyte in the laboratory method blank analyzed concurrently with the sample.

(2) "E" flag indicates an estimated value. The analyte was detected in the sample at a concentration greater than the standard calibration range.

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0457-1
Report Date: 04/12/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW205	Aqueous	R. SHOCKLEY	03/24/95	03/24/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	03/30/95	DR	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
Trichloroethene	160.	µg/L	1.0	2.5	EPA 8260	03/30/95	DR	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	03/30/95	DR	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	03/30/95	DR	
Tetrachloroethene	24.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
Toluene	<2.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	

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04/12/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0457-1
Report Date: 04/12/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW205	Aqueous	R. SHOCKLEY	03/24/95	03/24/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	
Total Xylenes	<2.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	
Dibromofluoromethane (Surr.)	102.	%	1.0		EPA 8260	03/30/95	DR	
Toluene-d8 (Surr.)	102.	%	1.0		EPA 8260	03/30/95	DR	
p-Bromofluorobenzene (Surr.)	95.	%	1.0		EPA 8260	03/30/95	DR	

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04/12/95

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Respectfully submitted,
PACE, INC.

Laura J. O'Meara
Laura J. O'Meara
Supervisor, Client Services

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1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.:	EPMW106
Matrix (soil/water)	Water	Lab Sample ID:	EPMW205
Sample wt/vol:	5 (g/ml) ml	Lab File ID:	Y8035
Level: (low/med)	low	Date Received:	3/24/95
% Moisture: not dec.	N/A	Date Analyzed:	3/30/95
GC Column:	RTX-624 ID: 0.53	Dilution Factor:	1.0
Soil Extract Volume:	0 (ul)	Soil Aliquot Volume:	0 (ul)

Number of TIC's Found: 0

CONCENTRATION UNITS
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0457-1
Report Date: 04/12/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW205	Aqueous	R. SHOCKLEY	03/24/95	03/24/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Volatile Organics by EPA 8260 Dilution								1
Chloromethane	<10.	µg/L	2.0	5.0	EPA 8260	03/31/95	DR	
Bromomethane	<10.	µg/L	2.0	5.0	EPA 8260	03/31/95	DR	
Vinyl chloride	<4.	µg/L	2.0	2.0	EPA 8260	03/31/95	DR	
Chloroethane	<4.	µg/L	2.0	2.0	EPA 8260	03/31/95	DR	
Methylene chloride	B7	µg/L	2.0	3.0	EPA 8260	03/31/95	DR	
Acetone	37.	µg/L	2.0	5.0	EPA 8260	03/31/95	DR	
Carbon disulfide	<10.	µg/L	2.0	5.0	EPA 8260	03/31/95	DR	
1,1-Dichloroethene	12.	µg/L	2.0	1.0	EPA 8260	03/31/95	DR	
1,1-Dichloroethane	<4.	µg/L	2.0	2.0	EPA 8260	03/31/95	DR	
Total 1,2-Dichloroethene	38.	µg/L	2.0	2.0	EPA 8260	03/31/95	DR	
Chloroform	<10.	µg/L	2.0	5.0	EPA 8260	03/31/95	DR	
1,2-Dichloroethane	<4.	µg/L	2.0	2.0	EPA 8260	03/31/95	DR	
2-Butanone	<10.	µg/L	2.0	5.0	EPA 8260	03/31/95	DR	
1,1,1-Trichloroethane	220.	µg/L	2.0	2.0	EPA 8260	03/31/95	DR	
Carbon tetrachloride	<10.	µg/L	2.0	5.0	EPA 8260	03/31/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) "B" flag denotes detection of this analyte in the laboratory method blank analyzed concurrently with the sample.

04/12/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0457-1
Report Date: 04/12/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW205	Aqueous	R. SHOCKLEY	03/24/95	03/24/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bromodichloromethane	<10.	µg/L	2.0	5.0	EPA 8260	03/31/95	DR	
1,2-Dichloropropane	<5.	µg/L	2.0	2.5	EPA 8260	03/31/95	DR	
cis-1,3-Dichloropropene	<10.	µg/L	2.0	5.0	EPA 8260	03/31/95	DR	
Trichloroethene	150.	µg/L	2.0	2.5	EPA 8260	03/31/95	DR	
Dibromochloromethane	<10.	µg/L	2.0	5.0	EPA 8260	03/31/95	DR	
1,1,2-Trichloroethane	<10.	µg/L	2.0	5.0	EPA 8260	03/31/95	DR	
Benzene	<4.	µg/L	2.0	2.0	EPA 8260	03/31/95	DR	
trans-1,3-Dichloropropene	<10.	µg/L	2.0	5.0	EPA 8260	03/31/95	DR	
Bromoform	<10.	µg/L	2.0	5.0	EPA 8260	03/31/95	DR	
4-Methyl-2-pentanone	<6.	µg/L	2.0	3.0	EPA 8260	03/31/95	DR	
2-Hexanone	<8.	µg/L	2.0	4.0	EPA 8260	03/31/95	DR	
Tetrachloroethene	23.	µg/L	2.0	2.0	EPA 8260	03/31/95	DR	
1,1,2,2-Tetrachloroethane	<10.	µg/L	2.0	5.0	EPA 8260	03/31/95	DR	
Toluene	<4.	µg/L	2.0	2.0	EPA 8260	03/31/95	DR	
Chlorobenzene	<10.	µg/L	2.0	5.0	EPA 8260	03/31/95	DR	
Ethylbenzene	<4.	µg/L	2.0	2.0	EPA 8260	03/31/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/12/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0457-1
Report Date: 04/12/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW205	Aqueous	R. SHOCKLEY	03/24/95	03/24/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Styrene	<4.	µg/L	2.0	2.0	EPA 8260	03/31/95	DR	
Total Xylenes	<4.	µg/L	2.0	2.0	EPA 8260	03/31/95	DR	
Dibromofluoromethane (Surr.)	101.	%	2.0		EPA 8260	03/31/95	DR	
Toluene-d8 (Surr.)	99.	%	2.0		EPA 8260	03/31/95	DR	
p-Bromofluorobenzene (Surr.)	93.	%	2.0		EPA 8260	03/31/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.:	EPMW106
Matrix (soil/water)	Water	Lab Sample ID:	EPMW205DL
Sample wt/vol:	5 (g/ml) ml	Lab File ID:	Y8086
Level: (low/med)	low	Date Received:	3/24/95
% Moisture: not dec.	N/A	Date Analyzed:	3/31/95
GC Column:	RTX-624 ID: 0.53	Dilution Factor:	2.0
Soil Extract Volume:	0 (ul)	Soil Aliquot Volume:	0 (ul)

Number of TIC's Found: 0

CONCENTRATION UNITS
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0452-10
Report Date: 04/12/95
PO No. : 802LSOA
Project : 29600.47

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW206A	Aqueous	C. CORBETT	03/23/95	03/23/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Volatile Organics by EPA 8260								1,2
Chloromethane	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
Vinyl chloride	<2.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	
Methylene chloride	JB2	µg/L	1.0	3.0	EPA 8260	03/30/95	DR	
Acetone	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
1,1-Dichloroethene	4.	µg/L	1.0	1.0	EPA 8260	03/30/95	DR	
1,1-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	
Total 1,2-Dichloroethene	5.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
1,1,1-Trichloroethane	77.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) "J" flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.
(2) "B" flag denotes detection of this analyte in the laboratory method blank analyzed concurrently with the sample.

04/12/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0452-10
Report Date: 04/12/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW206A	Aqueous	C. CORBETT	03/23/95	03/23/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	03/30/95	DR	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
Trichloroethene	25.	µg/L	1.0	2.5	EPA 8260	03/30/95	DR	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	03/30/95	DR	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	03/30/95	DR	
Tetrachloroethene	6.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
Toluene	<2.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/12/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0452-10
Report Date: 04/12/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW206A	Aqueous	C. CORBETT	03/23/95	03/23/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	
Total Xylenes	<2.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	
Dibromofluoromethane (Surr.)	102.	%	1.0		EPA 8260	03/30/95	DR	
Toluene-d8 (Surr.)	102.	%	1.0		EPA 8260	03/30/95	DR	
p-Bromofluorobenzene (Surr.)	95.	%	1.0		EPA 8260	03/30/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

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VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.:	EPMW106
Matrix (soil/water)	Water	Lab Sample ID:	EPMW206A
Sample wt/vol:	5 (g/ml) ml	Lab File ID:	Y8030
Level: (low/med)	low	Date Received:	3/23/95
% Moisture: not dec.	N/A	Date Analyzed:	3/30/95
GC Column:	RTX-624 ID: 0.53	Dilution Factor:	1.0
Soil Extract Volume:	0 (ul)	Soil Aliquot Volume:	0 (ul)

Number of TIC's Found: 1

CONCENTRATION UNITS (ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 124389	Carbon Dioxide	2.16	7	JNB
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0452-11
Report Date: 04/12/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW206B	Aqueous	C. CORBETT	03/23/95	03/23/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Volatile Organics by EPA 8260								1,2
Chloromethane	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
Vinyl chloride	<2.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	
Methylene chloride	JB2	µg/L	1.0	3.0	EPA 8260	03/30/95	DR	
Acetone	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
1,1-Dichloroethene	<1.	µg/L	1.0	1.0	EPA 8260	03/30/95	DR	
1,1-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	
Total 1,2-Dichloroethene	<2.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
1,1,1-Trichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) "J" flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.
(2) "B" flag denotes detection of this analyte in the laboratory method blank analyzed concurrently with the sample.

04/12/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0452-11
Report Date: 04/12/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW206B	Aqueous	C. CORBETT	03/23/95	03/23/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	03/30/95	DR	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
Trichloroethene	<2.5	µg/L	1.0	2.5	EPA 8260	03/30/95	DR	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	03/30/95	DR	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	03/30/95	DR	
Tetrachloroethene	<2.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
Toluene	<2.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	

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04/12/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0452-11
Report Date: 04/12/95
PO No. : 802LSOA
Project : 29600.47

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW206B	Aqueous	C. CORBETT	03/23/95	03/23/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	
Total Xylenes	<2.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	
Dibromofluoromethane (Surr.)	103.	%	1.0		EPA 8260	03/30/95	DR	
Toluene-d8 (Surr.)	103.	%	1.0		EPA 8260	03/30/95	DR	
p-Bromofluorobenzene (Surr.)	104.	%	1.0		EPA 8260	03/30/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/12/95

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.:	EPMW106
Matrix (soil/water)	Water	Lab Sample ID:	EPMW206B
Sample wt/vol:	5 (g/ml) ml	Lab File ID:	Y8031
Level: (low/med)	low	Date Received:	3/23/95
% Moisture: not dec.	N/A	Date Analyzed:	3/30/95
GC Column:	RTX-624 ID: 0.53	Dilution Factor:	1.0
Soil Extract Volume:	0 (ul)	Soil Aliquot Volume:	0 (ul)

Number of TIC's Found: 0

CONCENTRATION UNITS (ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0485-6
Report Date: 04/13/95
PO No. : 802LSOA
Project : 29600.47

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW207A	Aqueous	B. ANDERSEN	03/29/95	03/30/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Volatile Organics by EPA 8260								1,2
Chloromethane	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
Vinyl chloride	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
Methylene chloride	JB1	µg/L	1.0	3.0	EPA 8260	04/06/95	DR	
Acetone	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
Carbon disulfide	J2.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
1,1-Dichloroethene	<1.	µg/L	1.0	1.0	EPA 8260	04/06/95	DR	
1,1-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
Total 1,2-Dichloroethene	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
1,1,1-Trichloroethane	2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	

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(1) "J" flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.
(2) "B" flag denotes detection of this analyte in the laboratory method blank analyzed concurrently with the sample.

04/13/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0485-6
Report Date: 04/13/95
PO No. : 802LSOA
Project : 29600.47

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW207A	Aqueous	B. ANDERSEN	03/29/95	03/30/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	04/06/95	DR	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
Trichloroethene	11.	µg/L	1.0	2.5	EPA 8260	04/06/95	DR	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	04/06/95	DR	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	04/06/95	DR	
Tetrachloroethene	10.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
Toluene	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/13/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0485-6
Report Date: 04/13/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW207A	Aqueous	B. ANDERSEN	03/29/95	03/30/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
Total Xylenes	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
Dibromofluoromethane (Surr.)	102.	%	1.0		EPA 8260	04/06/95	DR	
Toluene-d8 (Surr.)	101.	%	1.0		EPA 8260	04/06/95	DR	
p-Bromofluorobenzene (Surr.)	103.	%	1.0		EPA 8260	04/06/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/13/95

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VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.:	EPMW202A
Matrix (soil/water)	Water	Lab Sample ID:	EPMW207A
Sample wt/vol:	5 (g/ml) ml	Lab File ID:	Y8219
Level: (low/med)	low	Date Received:	3/30/95
% Moisture: not dec.	N/A	Date Analyzed:	4/6/95
GC Column:	RTX-624 ID: 0.53	Dilution Factor:	1.0
Soil Extract Volume:	0 (ul)	Soil Aliquot Volume:	0 (ul)

Number of TIC's Found: 1

CONCENTRATION UNITS (ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	22.26	13	JB
2.				
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0499-9
Report Date: 04/19/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW207B	Aqueous	B.ANDERSEN	03/30/95	03/30/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Volatile Organics by EPA 8260								1,2,3
Chloromethane	<5.	µg/L	1.0	5.0	EPA 8260	04/08/95	CB	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	04/08/95	CB	
Vinyl chloride	<2.	µg/L	1.0	2.0	EPA 8260	04/08/95	CB	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/08/95	CB	
Methylene chloride	JB1	µg/L	1.0	3.0	EPA 8260	04/08/95	CB	
Acetone	BE220	µg/L	1.0	5.0	EPA 8260	04/08/95	CB	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	04/08/95	CB	
1,1-Dichloroethene	<1.	µg/L	1.0	1.0	EPA 8260	04/08/95	CB	
1,1-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/08/95	CB	
Total 1,2-Dichloroethene	<2.	µg/L	1.0	2.0	EPA 8260	04/08/95	CB	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	04/08/95	CB	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/08/95	CB	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	04/08/95	CB	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

(1) "J" flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.

(2) "B" flag denotes detection of this analyte in the laboratory method blank analyzed concurrently with the sample.

(3) "E" flag indicates an estimated value. The analyte was detected in the sample at a concentration greater than the standard calibration range.

04/19/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0499-9
Report Date: 04/19/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW207B	Aqueous	B.ANDERSEN	03/30/95	03/30/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
1,1,1-Trichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/08/95	CB	
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	04/08/95	CB	
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	04/08/95	CB	
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	04/08/95	CB	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	04/08/95	CB	
Trichloroethene	<2.5	µg/L	1.0	2.5	EPA 8260	04/08/95	CB	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	04/08/95	CB	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	04/08/95	CB	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	04/08/95	CB	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	04/08/95	CB	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	04/08/95	CB	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	04/08/95	CB	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	04/08/95	CB	
Tetrachloroethene	<2.	µg/L	1.0	2.0	EPA 8260	04/08/95	CB	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/19/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0499-9
Report Date: 04/19/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW207B	Aqueous	B.ANDERSEN	03/30/95	03/30/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	04/08/95	CB	
Toluene	<2.	µg/L	1.0	2.0	EPA 8260	04/08/95	CB	
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	04/08/95	CB	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	04/08/95	CB	
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	04/08/95	CB	
Total Xylenes	<2.	µg/L	1.0	2.0	EPA 8260	04/08/95	CB	
Dibromofluoromethane (Surr.)	103.	%	1.0		EPA 8260	04/08/95	CB	
Toluene-d8 (Surr.)	101.	%	1.0		EPA 8260	04/08/95	CB	
p-Bromofluorobenzene (Surr.)	103.	%	1.0		EPA 8260	04/08/95	CB	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/19/95

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.:	EPMW207B
Matrix (soil/water)	Water	Lab Sample ID:	EPMW207B
Sample wt/vol:	5 (g/ml) ml	Lab File ID:	Y8273
Level: (low/med)	low	Date Received:	3/31/95
% Moisture: not dec.	N/A	Date Analyzed:	4/8/95
GC Column:	RTX-624 ID: 0.53	Dilution Factor:	1.0
Soil Extract Volume:	0 (ul)	Soil Aliquot Volume:	0 (ul)

Number of TIC's Found: 1

CONCENTRATION UNITS (ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 67630	2-Propanol	5.84	130	JN
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0499-9
Report Date: 04/19/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW207B	Aqueous	B.ANDERSEN	03/30/95	03/30/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Volatile Organics by EPA 8260 Dilution								1,2
Chloromethane	<10.	µg/L	2.0	5.0	EPA 8260	04/10/95	CB	
Bromomethane	<10.	µg/L	2.0	5.0	EPA 8260	04/10/95	CB	
Vinyl chloride	<4.	µg/L	2.0	2.0	EPA 8260	04/10/95	CB	
Chloroethane	<4.	µg/L	2.0	2.0	EPA 8260	04/10/95	CB	
Methylene chloride	B4	µg/L	2.0	3.0	EPA 8260	04/10/95	CB	
Acetone	200.	µg/L	2.0	5.0	EPA 8260	04/10/95	CB	
Carbon disulfide	<10.	µg/L	2.0	5.0	EPA 8260	04/10/95	CB	
1,1-Dichloroethene	<2.	µg/L	2.0	1.0	EPA 8260	04/10/95	CB	
1,1-Dichloroethane	<4.	µg/L	2.0	2.0	EPA 8260	04/10/95	CB	
Total 1,2-Dichloroethene	<4.	µg/L	2.0	2.0	EPA 8260	04/10/95	CB	
Chloroform	<10.	µg/L	2.0	5.0	EPA 8260	04/10/95	CB	
1,2-Dichloroethane	<4.	µg/L	2.0	2.0	EPA 8260	04/10/95	CB	
2-Butanone	<10.	µg/L	2.0	5.0	EPA 8260	04/10/95	CB	
1,1,1-Trichloroethane	<4.	µg/L	2.0	2.0	EPA 8260	04/10/95	CB	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

(1) "B" flag denotes detection of this analyte in the laboratory method blank analyzed concurrently with the sample.

(2) Sample dilution required for quantitation of one or more target analytes; therefore, standard laboratory Practical Quantitation Level (PQL) could not be achieved.

000095

04/19/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0499-9
Report Date: 04/19/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW207B	Aqueous	B.ANDERSEN	03/30/95	03/30/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Carbon tetrachloride	<10.	µg/L	2.0	5.0	EPA 8260	04/10/95	CB	
Bromodichloromethane	<10.	µg/L	2.0	5.0	EPA 8260	04/10/95	CB	
1,2-Dichloropropane	<5.	µg/L	2.0	2.5	EPA 8260	04/10/95	CB	
cis-1,3-Dichloropropene	<10.	µg/L	2.0	5.0	EPA 8260	04/10/95	CB	
Trichloroethene	<5.	µg/L	2.0	2.5	EPA 8260	04/10/95	CB	
Dibromochloromethane	<10.	µg/L	2.0	5.0	EPA 8260	04/10/95	CB	
1,1,2-Trichloroethane	<10.	µg/L	2.0	5.0	EPA 8260	04/10/95	CB	
Benzene	<4.	µg/L	2.0	2.0	EPA 8260	04/10/95	CB	
trans-1,3-Dichloropropene	<10.	µg/L	2.0	5.0	EPA 8260	04/10/95	CB	
Bromoform	<10.	µg/L	2.0	5.0	EPA 8260	04/10/95	CB	
4-Methyl-2-pentanone	<6.	µg/L	2.0	3.0	EPA 8260	04/10/95	CB	
2-Hexanone	<8.	µg/L	2.0	4.0	EPA 8260	04/10/95	CB	
Tetrachloroethene	<4.	µg/L	2.0	2.0	EPA 8260	04/10/95	CB	
1,1,2,2-Tetrachloroethane	<10.	µg/L	2.0	5.0	EPA 8260	04/10/95	CB	
Toluene	<4.	µg/L	2.0	2.0	EPA 8260	04/10/95	CB	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/19/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0499-9
Report Date: 04/19/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW207B	Aqueous	B.ANDERSEN	03/30/95	03/30/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chlorobenzene	<10.	µg/L	2.0	5.0	EPA 8260	04/10/95	CB	
Ethylbenzene	<4.	µg/L	2.0	2.0	EPA 8260	04/10/95	CB	
Styrene	<4.	µg/L	2.0	2.0	EPA 8260	04/10/95	CB	
Total Xylenes	<4.	µg/L	2.0	2.0	EPA 8260	04/10/95	CB	
Dibromofluoromethane (Surr.)	106.	%	2.0		EPA 8260	04/10/95	CB	
Toluene-d8 (Surr.)	98.	%	2.0		EPA 8260	04/10/95	CB	
p-Bromofluorobenzene (Surr.)	93.	%	2.0		EPA 8260	04/10/95	CB	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/19/95

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.:	EPMW207B
Matrix (soil/water)	Water	Lab Sample ID:	EPMW207BDL
Sample wt/vol:	5 (g/ml) ml	Lab File ID:	Y8319
Level: (low/med)	low	Date Received:	3/31/95
% Moisture: not dec.	N/A	Date Analyzed:	4/10/95
GC Column:	RTX-624 ID: 0.53	Dilution Factor:	2.0
Soil Extract Volume:	0 (ul)	Soil Aliquot Volume:	0 (ul)

Number of TIC's Found: 1

CONCENTRATION UNITS
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 67630	2-Propanol	5.79	110	JN
2.				
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0485-5
Report Date: 04/13/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW208	Aqueous	B. ANDERSEN	03/29/95	03/30/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Volatile Organics by EPA 8260								
Chloromethane	<5.	µg/L	1.0	5.0	EPA 8260	04/03/95	DR	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	04/03/95	DR	
Vinyl chloride	<2.	µg/L	1.0	2.0	EPA 8260	04/03/95	DR	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/03/95	DR	
Methylene chloride	<3.	µg/L	1.0	3.0	EPA 8260	04/03/95	DR	
Acetone	<5.	µg/L	1.0	5.0	EPA 8260	04/03/95	DR	
Carbon disulfide	170.	µg/L	1.0	5.0	EPA 8260	04/03/95	DR	
1,1-Dichloroethene	1.	µg/L	1.0	1.0	EPA 8260	04/03/95	DR	
1,1-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/03/95	DR	
Total 1,2-Dichloroethene	3.	µg/L	1.0	2.0	EPA 8260	04/03/95	DR	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	04/03/95	DR	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/03/95	DR	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	04/03/95	DR	
1,1,1-Trichloroethane	11.	µg/L	1.0	2.0	EPA 8260	04/03/95	DR	
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	04/03/95	DR	
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	04/03/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/13/95

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REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
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Newburgh, New York 12550

Lab Number : WL-0485-5
Report Date: 04/13/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW208	Aqueous	B. ANDERSEN	03/29/95	03/30/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	04/03/95	DR	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	04/03/95	DR	
Trichloroethene	13.	µg/L	1.0	2.5	EPA 8260	04/03/95	DR	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	04/03/95	DR	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	04/03/95	DR	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	04/03/95	DR	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	04/03/95	DR	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	04/03/95	DR	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	04/03/95	DR	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	04/03/95	DR	
Tetrachloroethene	3.	µg/L	1.0	2.0	EPA 8260	04/03/95	DR	
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	04/03/95	DR	
Toluene	<2.	µg/L	1.0	2.0	EPA 8260	04/03/95	DR	
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	04/03/95	DR	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	04/03/95	DR	
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	04/03/95	DR	
Total Xylenes	<2.	µg/L	1.0	2.0	EPA 8260	04/03/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/13/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0485-5
Report Date: 04/13/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW208	Aqueous	B. ANDERSEN	03/29/95	03/30/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Dibromofluoromethane (Surr.)	104.	%	1.0		EPA 8260	04/03/95	DR	
Toluene-d8 (Surr.)	104.	%	1.0		EPA 8260	04/03/95	DR	
p-Bromofluorobenzene (Surr.)	97.	%	1.0		EPA 8260	04/03/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/13/95

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.:	EPMW202A
Matrix (soil/water)	Water	Lab Sample ID:	EPMW208
Sample wt/vol:	5 (g/ml) ml	Lab File ID:	Y8128
Level: (low/med)	low	Date Received:	3/30/95
% Moisture: not dec.	N/A	Date Analyzed:	4/3/95
GC Column:	RTX-624 ID: 0.53	Dilution Factor:	1.0
Soil Extract Volume:	0 (ul)	Soil Aliquot Volume:	0 (ul)

Number of TIC's Found: 0

CONCENTRATION UNITS
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0470-2
Report Date: 04/13/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW209	Aqueous	▸	03/28/95	03/29/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Volatile Organics by EPA 8260								1,2
Chloromethane	<5.	µg/L	1.0	5.0	EPA 8260	04/01/95	DR	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	04/01/95	DR	
Vinyl chloride	<2.	µg/L	1.0	2.0	EPA 8260	04/01/95	DR	
Chloroethane	7.	µg/L	1.0	2.0	EPA 8260	04/01/95	DR	
Methylene chloride	JB2	µg/L	1.0	3.0	EPA 8260	04/01/95	DR	
Acetone	<5.	µg/L	1.0	5.0	EPA 8260	04/01/95	DR	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	04/01/95	DR	
1,1-Dichloroethene	<1.	µg/L	1.0	1.0	EPA 8260	04/01/95	DR	
1,1-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/01/95	DR	
Total 1,2-Dichloroethene	<2.	µg/L	1.0	2.0	EPA 8260	04/01/95	DR	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	04/01/95	DR	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/01/95	DR	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	04/01/95	DR	
1,1,1-Trichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/01/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) "J" flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.
(2) "B" flag denotes detection of this analyte in the laboratory method blank analyzed concurrently with the sample.

04/13/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0470-2
Report Date: 04/13/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW209	Aqueous	▶	03/28/95	03/29/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	04/01/95	DR	
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	04/01/95	DR	
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	04/01/95	DR	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	04/01/95	DR	
Trichloroethene	<2.5	µg/L	1.0	2.5	EPA 8260	04/01/95	DR	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	04/01/95	DR	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	04/01/95	DR	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	04/01/95	DR	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	04/01/95	DR	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	04/01/95	DR	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	04/01/95	DR	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	04/01/95	DR	
Tetrachloroethene	<2.	µg/L	1.0	2.0	EPA 8260	04/01/95	DR	
1,1,2,2-Tetrachloroethane	JB1	µg/L	1.0	5.0	EPA 8260	04/01/95	DR	
Toluene	<2.	µg/L	1.0	2.0	EPA 8260	04/01/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/13/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0470-2
Report Date: 04/13/95
PO No. : 802LSOA
Project : 29600.47

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW209	Aqueous	▸	03/28/95	03/29/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	04/01/95	DR	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	04/01/95	DR	
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	04/01/95	DR	
Total Xylenes	<2.	µg/L	1.0	2.0	EPA 8260	04/01/95	DR	
Dibromofluoromethane (Surr.)	105.	%	1.0		EPA 8260	04/01/95	DR	
Toluene-d8 (Surr.)	100.	%	1.0		EPA 8260	04/01/95	DR	
p-Bromofluorobenzene (Surr.)	93.	%	1.0		EPA 8260	04/01/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/13/95

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1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.:	EPMW202A
Matrix (soil/water)	Water	Lab Sample ID:	EPMW209
Sample wt/vol:	5 (g/ml) ml	Lab File ID:	Y8097
Level: (low/med)	low	Date Received:	3/29/95
% Moisture: not dec.	N/A	Date Analyzed:	4/1/95
GC Column:	RTX-624 ID: 0.53	Dilution Factor:	1.0
Soil Extract Volume:	0 (ul)	Soil Aliquot Volume:	0 (ul)

Number of TIC's Found: 0

CONCENTRATION UNITS (ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0452-7
Report Date: 04/12/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW222	Aqueous	C. CORBETT	03/22/95	03/23/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Volatile Organics by EPA 8260								1,2
Chloromethane	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
Vinyl chloride	<2.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	
Methylene chloride	B4	µg/L	1.0	3.0	EPA 8260	03/30/95	DR	
Acetone	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
1,1-Dichloroethene	<1.	µg/L	1.0	1.0	EPA 8260	03/30/95	DR	
1,1-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	
Total 1,2-Dichloroethene	<2.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
1,1,1-Trichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) "J" flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.
(2) "B" flag denotes detection of this analyte in the laboratory method blank analyzed concurrently with the sample.

04/12/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0452-7
Report Date: 04/12/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW222	Aqueous	C. CORBETT	03/22/95	03/23/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTE
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	03/30/95	DR	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
Trichloroethene	<2.5	µg/L	1.0	2.5	EPA 8260	03/30/95	DR	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	03/30/95	DR	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	03/30/95	DR	
Tetrachloroethene	J1.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
Toluene	<2.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	

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04/12/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0452-7
Report Date: 04/12/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW222	Aqueous	C. CORBETT	03/22/95	03/23/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	
Total Xylenes	<2.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	
Dibromofluoromethane (Surr.)	101.	%	1.0		EPA 8260	03/30/95	DR	
Toluene-d8 (Surr.)	107.	%	1.0		EPA 8260	03/30/95	DR	
p-Bromofluorobenzene (Surr.)	109.	%	1.0		EPA 8260	03/30/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/12/95

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1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.:	EPMW106
Matrix (soil/water)	Water	Lab Sample ID:	EPMW222
Sample wt/vol:	5 (g/ml) ml	Lab File ID:	Y8027
Level: (low/med)	low	Date Received:	3/23/95
% Moisture: not dec.	N/A	Date Analyzed:	3/30/95
GC Column:	RTX-624 ID: 0.53	Dilution Factor:	1.0
Soil Extract Volume:	0 (ul)	Soil Aliquot Volume:	0 (ul)

Number of TIC's Found: 0

CONCENTRATION UNITS
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0499-3
Report Date: 04/19/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW223	Aqueous	B.ANDERSEN	03/30/95	03/31/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Volatile Organics by EPA 8260								1,2
Chloromethane	<5.	µg/L	1.0	5.0	EPA 8260	04/08/95	DR	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	04/08/95	DR	
Vinyl chloride	<2.	µg/L	1.0	2.0	EPA 8260	04/08/95	DR	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/08/95	DR	
Methylene chloride	JB1	µg/L	1.0	3.0	EPA 8260	04/08/95	DR	
Acetone	B7	µg/L	1.0	5.0	EPA 8260	04/08/95	DR	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	04/08/95	DR	
1,1-Dichloroethene	<1.	µg/L	1.0	1.0	EPA 8260	04/08/95	DR	
1,1-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/08/95	DR	
Total 1,2-Dichloroethene	<2.	µg/L	1.0	2.0	EPA 8260	04/08/95	DR	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	04/08/95	DR	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/08/95	DR	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	04/08/95	DR	
1,1,1-Trichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/08/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) "J" flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.
(2) "B" flag denotes detection of this analyte in the laboratory method blank analyzed concurrently with the sample.

04/19/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0499-3
Report Date: 04/19/95
PO No. : 802LSOA
Project : 29600.47

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW223	Aqueous	B.ANDERSEN	03/30/95	03/31/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	04/08/95	DR	
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	04/08/95	DR	
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	04/08/95	DR	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	04/08/95	DR	
Trichloroethene	J2	µg/L	1.0	2.5	EPA 8260	04/08/95	DR	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	04/08/95	DR	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	04/08/95	DR	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	04/08/95	DR	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	04/08/95	DR	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	04/08/95	DR	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	04/08/95	DR	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	04/08/95	DR	
Tetrachloroethene	J1	µg/L	1.0	2.0	EPA 8260	04/08/95	DR	
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	04/08/95	DR	
Toluene	<2.	µg/L	1.0	2.0	EPA 8260	04/08/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/19/95

LJO/jcbear/gbp(dw)/kwh/sra
LD07VLW1

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0499-3
Report Date: 04/19/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW223	Aqueous	B.ANDERSEN	03/30/95	03/31/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	04/08/95	DR	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	04/08/95	DR	
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	04/08/95	DR	
Total Xylenes	<2.	µg/L	1.0	2.0	EPA 8260	04/08/95	DR	
Dibromofluoromethane (Surr.)	101.	%	1.0		EPA 8260	04/08/95	DR	
Toluene-d8 (Surr.)	98.	%	1.0		EPA 8260	04/08/95	DR	
p-Bromofluorobenzene (Surr.)	95.	%	1.0		EPA 8260	04/08/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/19/95

LJO/jcbear/gbp(dw)/kwh/sra
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1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.:	EPMW207B
Matrix (soil/water)	Water	Lab Sample ID:	EPMW223
Sample wt/vol:	5 (g/ml) ml	Lab File ID:	Y8267
Level: (low/med)	low	Date Received:	3/31/95
% Moisture: not dec.	N/A	Date Analyzed:	4/8/95
GC Column:	RTX-624 ID: 0.53	Dilution Factor:	1.0
Soil Extract Volume:	0 (ul)	Soil Aliquot Volume:	0 (ul)

Number of TIC's Found: 1

CONCENTRATION UNITS
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 112312	Decanal	24.35	6	JN
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pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0499-4
Report Date: 04/19/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMXDUP	Aqueous	B.ANDERSEN	03/30/95	03/31/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Volatile Organics by EPA 8260								1,2
Chloromethane	<5.	µg/L	1.0	5.0	EPA 8260	04/08/95	DR	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	04/08/95	DR	
Vinyl chloride	<2.	µg/L	1.0	2.0	EPA 8260	04/08/95	DR	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/08/95	DR	
Methylene chloride	JB1	µg/L	1.0	3.0	EPA 8260	04/08/95	DR	
Acetone	B8	µg/L	1.0	5.0	EPA 8260	04/08/95	DR	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	04/08/95	DR	
1,1-Dichloroethene	<1.	µg/L	1.0	1.0	EPA 8260	04/08/95	DR	
1,1-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/08/95	DR	
Total 1,2-Dichloroethene	<2.	µg/L	1.0	2.0	EPA 8260	04/08/95	DR	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	04/08/95	DR	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/08/95	DR	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	04/08/95	DR	
1,1,1-Trichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/08/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) "J" flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.
(2) "B" flag denotes detection of this analyte in the laboratory method blank analyzed concurrently with the sample.

04/19/95

LJO/jcbear/gbp(dw)/kwh/sra
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0499-4
Report Date: 04/19/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMWDUP	Aqueous	B.ANDERSEN	03/30/95	03/31/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	04/08/95	DR	
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	04/08/95	DR	
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	04/08/95	DR	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	04/08/95	DR	
Trichloroethene	3.	µg/L	1.0	2.5	EPA 8260	04/08/95	DR	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	04/08/95	DR	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	04/08/95	DR	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	04/08/95	DR	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	04/08/95	DR	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	04/08/95	DR	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	04/08/95	DR	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	04/08/95	DR	
Tetrachloroethene	J1	µg/L	1.0	2.0	EPA 8260	04/08/95	DR	
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	04/08/95	DR	
Toluene	<2.	µg/L	1.0	2.0	EPA 8260	04/08/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/19/95

LJO/jcbear/gbp(dw)/kwh/sra
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0499-4
Report Date: 04/19/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMWDUP	Aqueous	B.ANDERSEN	03/30/95	03/31/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	04/08/95	DR	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	04/08/95	DR	
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	04/08/95	DR	
Total Xylenes	<2.	µg/L	1.0	2.0	EPA 8260	04/08/95	DR	
Dibromofluoromethane (Surr.)	101.	%	1.0		EPA 8260	04/08/95	DR	
Toluene-d8 (Surr.)	100.	%	1.0		EPA 8260	04/08/95	DR	
p-Bromofluorobenzene (Surr.)	104.	%	1.0		EPA 8260	04/08/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/19/95

LJO/jcbear/gbp(dw)/kwh/sra
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1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.:	EPMW207B
Matrix (soil/water)	Water	Lab Sample ID:	EPMWDUP
Sample wt/vol:	5 (g/ml) ml	Lab File ID:	Y8268
Level: (low/med)	low	Date Received:	3/31/95
% Moisture: not dec.	N/A	Date Analyzed:	4/8/95
GC Column:	RTX-624 ID: 0.53	Dilution Factor:	1.0
Soil Extract Volume:	0 (ul)	Soil Aliquot Volume:	0 (ul)

Number of TIC's Found: 2

CONCENTRATION UNITS (ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 67630	2-Propanol	5.85	5	JN
2.	Unknown	22.28	13	JB
3.				
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0485-4
Report Date: 04/13/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW224	Aqueous	B. ANDERSEN	03/29/95	03/30/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Volatile Organics by EPA 8260								1
Chloromethane	<5.	µg/L	1.0	5.0	EPA 8260	04/03/95	DR	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	04/03/95	DR	
Vinyl chloride	<2.	µg/L	1.0	2.0	EPA 8260	04/03/95	DR	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/03/95	DR	
Methylene chloride	<3.	µg/L	1.0	3.0	EPA 8260	04/03/95	DR	
Acetone	<5.	µg/L	1.0	5.0	EPA 8260	04/03/95	DR	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	04/03/95	DR	
1,1-Dichloroethene	<1.	µg/L	1.0	1.0	EPA 8260	04/03/95	DR	
1,1-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/03/95	DR	
Total 1,2-Dichloroethene	9.	µg/L	1.0	2.0	EPA 8260	04/03/95	DR	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	04/03/95	DR	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/03/95	DR	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	04/03/95	DR	
1,1,1-Trichloroethane	J1.	µg/L	1.0	2.0	EPA 8260	04/03/95	DR	
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	04/03/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) "J" flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.

04/13/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0485-4
Report Date: 04/13/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED	DATE RECEIVED
EPMW224	Aqueous	B. ANDERSEN	03/29/95	03/30/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	04/03/95	DR	
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	04/03/95	DR	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	04/03/95	DR	
Trichloroethene	8.	µg/L	1.0	2.5	EPA 8260	04/03/95	DR	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	04/03/95	DR	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	04/03/95	DR	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	04/03/95	DR	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	04/03/95	DR	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	04/03/95	DR	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	04/03/95	DR	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	04/03/95	DR	
Tetrachloroethene	3.	µg/L	1.0	2.0	EPA 8260	04/03/95	DR	
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	04/03/95	DR	
Toluene	<2.	µg/L	1.0	2.0	EPA 8260	04/03/95	DR	
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	04/03/95	DR	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	04/03/95	DR	

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04/13/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0485-4
Report Date: 04/13/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW224	Aqueous	B. ANDERSEN	03/29/95	03/30/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	04/03/95	DR	
Total Xylenes	<2.	µg/L	1.0	2.0	EPA 8260	04/03/95	DR	
Dibromofluoromethane (Surr.)	105.	%	1.0		EPA 8260	04/03/95	DR	
Toluene-d8 (Surr.)	108.	%	1.0		EPA 8260	04/03/95	DR	
p-Bromofluorobenzene (Surr.)	101.	%	1.0		EPA 8260	04/03/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/13/95

LJO/jcbear/gbp(dw)/sra
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1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.: EPMW202A	
Matrix (soil/water)	Water	Lab Sample ID:	EPMW224
Sample wt/vol:	5 (g/ml) ml	Lab File ID:	Y8127
Level: (low/med)	low	Date Received:	3/30/95
% Moisture: not dec.	N/A	Date Analyzed:	4/3/95
GC Column:	RTX-624 ID: 0.53	Dilution Factor:	1.0
Soil Extract Volume:	0 (ul)	Soil Aliquot Volume:	0 (ul)

Number of TIC's Found: 1

CONCENTRATION UNITS
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 124389	Carbon Dioxide	2.15	6	JNB
2.				
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0452-12
Report Date: 04/12/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW225A	Aqueous	C. CORBETT	03/23/95	03/23/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Volatile Organics by EPA 8260								1,2
Chloromethane	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
Vinyl chloride	<2.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	
Methylene chloride	JB2	µg/L	1.0	3.0	EPA 8260	03/30/95	DR	
Acetone	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
1,1-Dichloroethene	2.	µg/L	1.0	1.0	EPA 8260	03/30/95	DR	
1,1-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	
Total 1,2-Dichloroethene	56.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
1,1,1-Trichloroethane	32.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) "J" flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.
(2) "B" flag denotes detection of this analyte in the laboratory method blank analyzed concurrently with the sample.

04/12/95

LJO/jcbabb(dw)/dar/sra
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0452-12
Report Date: 04/12/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW225A	Aqueous	C. CORBETT	03/23/95	03/23/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	03/30/95	DR	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
Trichloroethene	57.	µg/L	1.0	2.5	EPA 8260	03/30/95	DR	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	03/30/95	DR	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	03/30/95	DR	
Tetrachloroethene	18.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
Toluene	<2.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/12/95

LJO/jcbabb(dw)/dar/sra
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pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0452-12
Report Date: 04/12/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW225A	Aqueous	C. CORBETT	03/23/95	03/23/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	
Total Xylenes	<2.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	
Dibromofluoromethane (Surr.)	104.	%	1.0		EPA 8260	03/30/95	DR	
Toluene-d8 (Surr.)	101.	%	1.0		EPA 8260	03/30/95	DR	
p-Bromofluorobenzene (Surr.)	96.	%	1.0		EPA 8260	03/30/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/12/95

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.:	EPMW106
Matrix (soil/water)	Water	Lab Sample ID:	EPMW225A
Sample wt/vol:	5 (g/ml) ml	Lab File ID:	Y8032
Level: (low/med)	low	Date Received:	3/23/95
% Moisture: not dec.	N/A	Date Analyzed:	3/30/95
GC Column:	RTX-624 ID: 0.53	Dilution Factor:	1.0
Soil Extract Volume:	0 (ul)	Soil Aliquot Volume:	0 (ul)

Number of TIC's Found: 0

CONCENTRATION UNITS (ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0452-13
Report Date: 04/12/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW225B	Aqueous	C. CORBETT	03/23/95	03/23/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Volatile Organics by EPA 8260								1,2
Chloromethane	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
Vinyl chloride	<2.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	
Methylene chloride	JB2	µg/L	1.0	3.0	EPA 8260	03/30/95	DR	
Acetone	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
1,1-Dichloroethene	<1.	µg/L	1.0	1.0	EPA 8260	03/30/95	DR	
1,1-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	
Total 1,2-Dichloroethene	15.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
1,1,1-Trichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) "J" flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.
(2) "B" flag denotes detection of this analyte in the laboratory method blank analyzed concurrently with the sample.

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0452-13
Report Date: 04/12/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW225B	Aqueous	C. CORBETT	03/23/95	03/23/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	03/30/95	DR	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
Trichloroethene	8.	µg/L	1.0	2.5	EPA 8260	03/30/95	DR	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	03/30/95	DR	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	03/30/95	DR	
Tetrachloroethene	3.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
Toluene	<2.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0452-13
Report Date: 04/12/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW225B	Aqueous	C. CORBETT	03/23/95	03/23/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	
Total Xylenes	<2.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	
Dibromofluoromethane (Surr.)	105.	%	1.0		EPA 8260	03/30/95	DR	
Toluene-d8 (Surr.)	102.	%	1.0		EPA 8260	03/30/95	DR	
p-Bromofluorobenzene (Surr.)	98.	%	1.0		EPA 8260	03/30/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.:	EPMW106
Matrix (soil/water)	Water	Lab Sample ID:	EPMW225B
Sample wt/vol:	5 (g/ml) ml	Lab File ID:	Y8033
Level: (low/med)	low	Date Received:	3/23/95
% Moisture: not dec.	N/A	Date Analyzed:	3/30/95
GC Column:	RTX-624 ID: 0.53	Dilution Factor:	1.0
Soil Extract Volume:	0 (ul)	Soil Aliquot Volume:	0 (ul)

Number of TIC's Found: 0

CONCENTRATION UNITS
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0452-14
Report Date: 04/12/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMWDUP2	Aqueous	C. CORBETT	03/23/95	03/23/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Volatile Organics by EPA 8260								1,2
Chloromethane	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
Vinyl chloride	<2.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	
Methylene chloride	JB1	µg/L	1.0	3.0	EPA 8260	03/30/95	DR	
Acetone	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
1,1-Dichloroethene	<1.	µg/L	1.0	1.0	EPA 8260	03/30/95	DR	
1,1-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	
Total 1,2-Dichloroethene	14.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
1,1,1-Trichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) "J" flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.
(2) "B" flag denotes detection of this analyte in the laboratory method blank analyzed concurrently with the sample.

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0452-14
Report Date: 04/12/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED	DATE RECEIVED
EPMWDUP2	Aqueous	C. CORBETT	03/23/95	03/23/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	03/30/95	DR	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
Trichloroethene	8.	µg/L	1.0	2.5	EPA 8260	03/30/95	DR	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	03/30/95	DR	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	03/30/95	DR	
Tetrachloroethene	3.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
Toluene	<2.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/12/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0452-14
Report Date: 04/12/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMWDUP2	Aqueous	C. CORBETT	03/23/95	03/23/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	
Total Xylenes	<2.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	
Dibromofluoromethane (Surr.)	108.	%	1.0		EPA 8260	03/30/95	DR	
Toluene-d8 (Surr.)	101.	%	1.0		EPA 8260	03/30/95	DR	
p-Bromofluorobenzene (Surr.)	104.	%	1.0		EPA 8260	03/30/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/12/95

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1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: PACE, INC.
SDG No.: EPMW106
Matrix (soil/water): Water
Lab Sample ID: EPMWDUP2
Sample wt/vol: 5 (g/ml) ml
Lab File ID: Y8034
Level: (low/med) low
Date Received: 3/23/95
% Moisture: not dec. N/A
Date Analyzed: 3/30/95
GC Column: RTX-624 ID: 0.53
Dilution Factor: 1.0
Soil Extract Volume: 0 (ul)
Soil Aliquot Volume: 0 (ul)

Number of TIC's Found: 0
CONCENTRATION UNITS (ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0458-1
Report Date: 04/12/95
PO No. : 802LSOA
Project : 29600.47

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW229A	Aqueous	B. ANDERSEN	03/27/95	03/28/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Volatile Organics by EPA 8260								1
Chloromethane	<5.	µg/L	1.0	5.0	EPA 8260	04/01/95	DR	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	04/01/95	DR	
Vinyl chloride	<2.	µg/L	1.0	2.0	EPA 8260	04/01/95	DR	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/01/95	DR	
Methylene chloride	B3	µg/L	1.0	3.0	EPA 8260	04/01/95	DR	
Acetone	<5.	µg/L	1.0	5.0	EPA 8260	04/01/95	DR	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	04/01/95	DR	
1,1-Dichloroethene	5.	µg/L	1.0	1.0	EPA 8260	04/01/95	DR	
1,1-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/01/95	DR	
Total 1,2-Dichloroethene	10.	µg/L	1.0	2.0	EPA 8260	04/01/95	DR	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	04/01/95	DR	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/01/95	DR	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	04/01/95	DR	
1,1,1-Trichloroethane	98.	µg/L	1.0	2.0	EPA 8260	04/01/95	DR	
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	04/01/95	DR	

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(1) "B" flag denotes detection of this analyte in the laboratory method blank analyzed concurrently with the sample.

04/12/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0458-1
Report Date: 04/12/95
PO No. : 802LSQA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW229A	Aqueous	B. ANDERSEN	03/27/95	03/28/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	04/01/95	DR	
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	04/01/95	DR	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	04/01/95	DR	
Trichloroethene	61.	µg/L	1.0	2.5	EPA 8260	04/01/95	DR	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	04/01/95	DR	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	04/01/95	DR	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	04/01/95	DR	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	04/01/95	DR	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	04/01/95	DR	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	04/01/95	DR	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	04/01/95	DR	
Tetrachloroethene	8.	µg/L	1.0	2.0	EPA 8260	04/01/95	DR	
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	04/01/95	DR	
Toluene	<2.	µg/L	1.0	2.0	EPA 8260	04/01/95	DR	
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	04/01/95	DR	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	04/01/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/12/95

LJO/jcbear/gbp(dw)/sra
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0458-1
Report Date: 04/12/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW229A	Aqueous	B. ANDERSEN	03/27/95	03/28/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	04/01/95	DR	
Total Xylenes	<2.	µg/L	1.0	2.0	EPA 8260	04/01/95	DR	
Dibromofluoromethane (Surr.)	108.	%	1.0		EPA 8260	04/01/95	DR	
Toluene-d8 (Surr.)	100.	%	1.0		EPA 8260	04/01/95	DR	
p-Bromofluorobenzene (Surr.)	92.	%	1.0		EPA 8260	04/01/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/12/95

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.:	EPMW106
Matrix (soil/water)	Water	Lab Sample ID:	EPMW229A
Sample wt/vol:	5 (g/ml) ml	Lab File ID:	Y8089
Level: (low/med)	low	Date Received:	3/28/95
% Moisture: not dec.	N/A	Date Analyzed:	4/1/95
GC Column:	RTX-624 ID: 0.53	Dilution Factor:	1.0
Soil Extract Volume:	0 (ul)	Soil Aliquot Volume:	0 (ul)

Number of TIC's Found: 0

CONCENTRATION UNITS
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0457-4
Report Date: 04/12/95
PO No. : 802LSOA
Project : 29600.47

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW230A	Aqueous	R. SHOCKLEY	03/23/95	03/24/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Volatile Organics by EPA 8260								1
Chloromethane	<5.	µg/L	1.0	5.0	EPA 8260	04/01/95	DR	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	04/01/95	DR	
Vinyl chloride	<2.	µg/L	1.0	2.0	EPA 8260	04/01/95	DR	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/01/95	DR	
Methylene chloride	B4	µg/L	1.0	3.0	EPA 8260	04/01/95	DR	
Acetone	<5.	µg/L	1.0	5.0	EPA 8260	04/01/95	DR	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	04/01/95	DR	
1,1-Dichloroethene	<1.	µg/L	1.0	1.0	EPA 8260	04/01/95	DR	
1,1-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/01/95	DR	
Total 1,2-Dichloroethene	<2.	µg/L	1.0	2.0	EPA 8260	04/01/95	DR	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	04/01/95	DR	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/01/95	DR	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	04/01/95	DR	
1,1,1-Trichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/01/95	DR	
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	04/01/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) "B" flag denotes detection of this analyte in the laboratory method blank analyzed concurrently with the sample.

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0457-4
Report Date: 04/12/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW230A	Aqueous	R. SHOCKLEY	03/23/95	03/24/

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	04/01/95	DR	
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	04/01/95	DR	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	04/01/95	DR	
Trichloroethene	<2.5	µg/L	1.0	2.5	EPA 8260	04/01/95	DR	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	04/01/95	DR	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	04/01/95	DR	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	04/01/95	DR	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	04/01/95	DR	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	04/01/95	DR	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	04/01/95	DR	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	04/01/95	DR	
Tetrachloroethene	<2.	µg/L	1.0	2.0	EPA 8260	04/01/95	DR	
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	04/01/95	DR	
Toluene	<2.	µg/L	1.0	2.0	EPA 8260	04/01/95	DR	
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	04/01/95	DR	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	04/01/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0457-4
Report Date: 04/12/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW230A	Aqueous	R. SHOCKLEY	03/23/95	03/24/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	04/01/95	DR	
Total Xylenes	<2.	µg/L	1.0	2.0	EPA 8260	04/01/95	DR	
Dibromofluoromethane (Surr.)	104.	%	1.0		EPA 8260	04/01/95	DR	
Toluene-d8 (Surr.)	98.	%	1.0		EPA 8260	04/01/95	DR	
p-Bromofluorobenzene (Surr.)	92.	%	1.0		EPA 8260	04/01/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.:	EPMW106
Matrix (soil/water)	Water	Lab Sample ID:	EPMW230A
Sample wt/vol:	5 (g/ml) ml	Lab File ID:	Y8088
Level: (low/med)	low	Date Received:	3/24/95
% Moisture: not dec.	N/A	Date Analyzed:	4/1/95
GC Column:	RTX-624 ID: 0.53	Dilution Factor:	1.0
Soil Extract Volume:	0 (ul)	Soil Aliquot Volume:	0 (ul)

Number of TIC's Found: 0

CONCENTRATION UNITS
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0499-1
Report Date: 04/19/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW231A	Aqueous	B.ANDERSEN	03/30/95	03/31/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Volatile Organics by EPA 8260								1,2
Chloromethane	<5.	µg/L	1.0	5.0	EPA 8260	04/07/95	DR	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	04/07/95	DR	
Vinyl chloride	<2.	µg/L	1.0	2.0	EPA 8260	04/07/95	DR	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/07/95	DR	
Methylene chloride	JB1	µg/L	1.0	3.0	EPA 8260	04/07/95	DR	
Acetone	<5.	µg/L	1.0	5.0	EPA 8260	04/07/95	DR	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	04/07/95	DR	
1,1-Dichloroethene	<1.	µg/L	1.0	1.0	EPA 8260	04/07/95	DR	
1,1-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/07/95	DR	
Total 1,2-Dichloroethene	<2.	µg/L	1.0	2.0	EPA 8260	04/07/95	DR	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	04/07/95	DR	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/07/95	DR	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	04/07/95	DR	
1,1,1-Trichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/07/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) "J" flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0499-1
Report Date: 04/19/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW231A	Aqueous	B.ANDERSEN	03/30/95	03/31/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	04/07/95	DR	
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	04/07/95	DR	
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	04/07/95	DR	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	04/07/95	DR	
Trichloroethene	<2.5	µg/L	1.0	2.5	EPA 8260	04/07/95	DR	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	04/07/95	DR	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	04/07/95	DR	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	04/07/95	DR	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	04/07/95	DR	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	04/07/95	DR	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	04/07/95	DR	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	04/07/95	DR	
Tetrachloroethene	<2.	µg/L	1.0	2.0	EPA 8260	04/07/95	DR	
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	04/07/95	DR	
Toluene	<2.	µg/L	1.0	2.0	EPA 8260	04/07/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/19/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0499-1
Report Date: 04/19/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW231A	Aqueous	B.ANDERSEN	03/30/95	03/31/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	04/07/95	DR	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	04/07/95	DR	
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	04/07/95	DR	
Total Xylenes	<2.	µg/L	1.0	2.0	EPA 8260	04/07/95	DR	
Dibromofluoromethane (Surr.)	97.	%	1.0		EPA 8260	04/07/95	DR	
Toluene-d8 (Surr.)	98.	%	1.0		EPA 8260	04/07/95	DR	
p-Bromofluorobenzene (Surr.)	95.	%	1.0		EPA 8260	04/07/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/19/95

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.:	EPMW207B
Matrix (soil/water)	Water	Lab Sample ID:	EPMW231A
Sample wt/vol:	5 (g/ml) ml	Lab File ID:	Y8263
Level: (low/med)	low	Date Received:	3/31/95
% Moisture: not dec.	N/A	Date Analyzed:	4/7/95
GC Column:	RTX-624 ID: 0.53	Dilution Factor:	1.0
Soil Extract Volume:	0 (ul)	Soil Aliquot Volume:	0 (ul)

Number of TIC's Found: 0

CONCENTRATION UNITS (ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0499-2
Report Date: 04/19/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW231B	Aqueous	B.ANDERSEN	03/30/95	03/31/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Volatile Organics by EPA 8260								1,2
Chloromethane	<5.	µg/L	1.0	5.0	EPA 8260	04/08/95	DR	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	04/08/95	DR	
Vinyl chloride	<2.	µg/L	1.0	2.0	EPA 8260	04/08/95	DR	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/08/95	DR	
Methylene chloride	JB1	µg/L	1.0	3.0	EPA 8260	04/08/95	DR	
Acetone	JB2	µg/L	1.0	5.0	EPA 8260	04/08/95	DR	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	04/08/95	DR	
1,1-Dichloroethene	<1.	µg/L	1.0	1.0	EPA 8260	04/08/95	DR	
1,1-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/08/95	DR	
Total 1,2-Dichloroethene	<2.	µg/L	1.0	2.0	EPA 8260	04/08/95	DR	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	04/08/95	DR	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/08/95	DR	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	04/08/95	DR	
1,1,1-Trichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/08/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) "J" flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.
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04/19/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0499-2
Report Date: 04/19/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW231B	Aqueous	B.ANDERSEN	03/30/95	03/31/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	04/08/95	DR	
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	04/08/95	DR	
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	04/08/95	DR	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	04/08/95	DR	
Trichloroethene	<2.5	µg/L	1.0	2.5	EPA 8260	04/08/95	DR	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	04/08/95	DR	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	04/08/95	DR	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	04/08/95	DR	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	04/08/95	DR	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	04/08/95	DR	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	04/08/95	DR	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	04/08/95	DR	
Tetrachloroethene	<2.	µg/L	1.0	2.0	EPA 8260	04/08/95	DR	
1,1,2,2-Tetrachloroethane	JB1	µg/L	1.0	5.0	EPA 8260	04/08/95	DR	
Toluene	<2.	µg/L	1.0	2.0	EPA 8260	04/08/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

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04/19/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0499-2
Report Date: 04/19/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW231B	Aqueous	B.ANDERSEN	03/30/95	03/31/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	04/08/95	DR	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	04/08/95	DR	
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	04/08/95	DR	
Total Xylenes	<2.	µg/L	1.0	2.0	EPA 8260	04/08/95	DR	
Dibromofluoromethane (Surr.)	100.	%	1.0		EPA 8260	04/08/95	DR	
Toluene-d8 (Surr.)	103.	%	1.0		EPA 8260	04/08/95	DR	
p-Bromofluorobenzene (Surr.)	104.	%	1.0		EPA 8260	04/08/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/19/95

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1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.:	EPMW207B
Matrix (soil/water)	Water	Lab Sample ID:	EPMW231B
Sample wt/vol:	5 (g/ml) ml	Lab File ID:	Y8266
Level: (low/med)	low	Date Received:	3/31/95
% Moisture: not dec.	N/A	Date Analyzed:	4/8/95
GC Column:	RTX-624 ID: 0.53	Dilution Factor:	1.0
Soil Extract Volume:	0 (ul)	Soil Aliquot Volume:	0 (ul)

Number of TIC's Found: 0

CONCENTRATION UNITS (ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0452-1
Report Date: 04/12/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW303	Aqueous	C. CORBETT	03/21/95	03/23/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Volatile Organics by EPA 8260								
Chloromethane	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	1
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Vinyl chloride	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Methylene chloride	<3.	µg/L	1.0	3.0	EPA 8260	03/29/95	DR	
Acetone	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
1,1-Dichloroethene	<1.	µg/L	1.0	1.0	EPA 8260	03/29/95	DR	
1,1-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Total 1,2-Dichloroethene	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
1,1,1-Trichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) "J" flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.

04/12/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0452-1
Report Date: 04/12/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW303	Aqueous	C. CORBETT	03/21/95	03/23/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	03/29/95	DR	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Trichloroethene	<2.5	µg/L	1.0	2.5	EPA 8260	03/29/95	DR	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	03/29/95	DR	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	03/29/95	DR	
Tetrachloroethene	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
1,1,2,2-Tetrachloroethane	J1.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Toluene	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/12/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0452-1
Report Date: 04/12/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW303	Aqueous	C. CORBETT	03/21/95	03/23/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Total Xylenes	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Dibromofluoromethane (Surr.)	99.	%	1.0		EPA 8260	03/29/95	DR	
Toluene-d8 (Surr.)	97.	%	1.0		EPA 8260	03/29/95	DR	
p-Bromofluorobenzene (Surr.)	95.	%	1.0		EPA 8260	03/29/95	DR	

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: PACE, INC.
SDG No.: EPMW106
Matrix (soil/water): Water
Lab Sample ID: EPMW303
Sample wt/vol: 5 (g/ml) ml
Lab File ID: Y8015
Level: (low/med) low
Date Received: 3/23/95
% Moisture: not dec. N/A
Date Analyzed: 3/29/95
GC Column: RTX-624 ID: 0.53
Dilution Factor: 1.0
Soil Extract Volume: 0 (ul)
Soil Aliquot Volume: 0 (ul)

Number of TIC's Found: 1
CONCENTRATION UNITS (ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 124389	Carbon Dioxide	2.17	5	JNB
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REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0452-3
Report Date: 04/12/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW305	Aqueous	C. CORBETT	03/22/95	03/23/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Volatile Organics by EPA 8260								1
Chloromethane	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Vinyl chloride	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Methylene chloride	J1.	µg/L	1.0	3.0	EPA 8260	03/29/95	DR	
Acetone	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
1,1-Dichloroethene	<1.	µg/L	1.0	1.0	EPA 8260	03/29/95	DR	
1,1-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Total 1,2-Dichloroethene	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
1,1,1-Trichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) "J" flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.

04/12/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0452-3
Report Date: 04/12/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW305	Aqueous	C. CORBETT	03/22/95	03/23/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	03/29/95	DR	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Trichloroethene	<2.5	µg/L	1.0	2.5	EPA 8260	03/29/95	DR	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	03/29/95	DR	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	03/29/95	DR	
Tetrachloroethene	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Toluene	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/12/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0452-3
Report Date: 04/12/95
PO No. : 802LSQA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW305	Aqueous	C. CORBETT	03/22/95	03/23/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Total Xylenes	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Dibromofluoromethane (Surr.)	103.	%	1.0		EPA 8260	03/29/95	DR	
Toluene-d8 (Surr.)	96.	%	1.0		EPA 8260	03/29/95	DR	
p-Bromofluorobenzene (Surr.)	91.	%	1.0		EPA 8260	03/29/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/12/95

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1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.:	EPMW106
Matrix (soil/water)	Water	Lab Sample ID:	EPMW305
Sample wt/vol:	5 (g/ml) ml	Lab File ID:	Y8019
Level: (low/med)	low	Date Received:	3/23/95
% Moisture: not dec.	N/A	Date Analyzed:	3/29/95
GC Column:	RTX-624 ID: 0.53	Dilution Factor:	1.0
Soil Extract Volume:	0 (ul)	Soil Aliquot Volume:	0 (ul)

Number of TIC's Found: 1

CONCENTRATION UNITS (ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 124389	Carbon Dioxide	2.14	6	JNB
2.				
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0452-4
Report Date: 04/12/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMWDUP1	Aqueous	C. CORBETT	03/22/95	03/23/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Volatile Organics by EPA 8260								1
Chloromethane	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Vinyl chloride	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Methylene chloride	B4	µg/L	1.0	3.0	EPA 8260	03/29/95	DR	
Acetone	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
1,1-Dichloroethene	<1.	µg/L	1.0	1.0	EPA 8260	03/29/95	DR	
1,1-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Total 1,2-Dichloroethene	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
1,1,1-Trichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) "B" flag denotes detection of this analyte in the laboratory method blank analyzed concurrently with the sample.

04/12/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0452-4
Report Date: 04/12/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMWDUP1	Aqueous	C. CORBETT	03/22/95	03/23/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	03/29/95	DR	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Trichloroethene	<2.5	µg/L	1.0	2.5	EPA 8260	03/29/95	DR	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	03/29/95	DR	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	03/29/95	DR	
Tetrachloroethene	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Toluene	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/12/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0452-4
Report Date: 04/12/95
PO No. : 802LSQA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMWDUP1	Aqueous	C. CORBETT	03/22/95	03/23/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Total Xylenes	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Dibromofluoromethane (Surr.)	101.	%	1.0		EPA 8260	03/29/95	DR	
Toluene-d8 (Surr.)	101.	%	1.0		EPA 8260	03/29/95	DR	
p-Bromofluorobenzene (Surr.)	98.	%	1.0		EPA 8260	03/29/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/12/95

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.:	EPMW106
Matrix (soil/water)	Water	Lab Sample ID:	EPMWDUP1
Sample wt/vol:	5 (g/ml) ml	Lab File ID:	Y8024
Level: (low/med)	low	Date Received:	3/23/95
% Moisture: not dec.	N/A	Date Analyzed:	3/29/95
GC Column:	RTX-624 ID: 0.53	Dilution Factor:	1.0
Soil Extract Volume:	0 (ul)	Soil Aliquot Volume:	0 (ul)

Number of TIC's Found: 1

CONCENTRATION UNITS (ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 124389	Carbon Dioxide	2.15	7	JNB
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0452-5
Report Date: 04/12/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW306	Aqueous	C. CORBETT	03/22/95	03/23/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Volatile Organics by EPA 8260								1,2
Chloromethane	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Vinyl chloride	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Methylene chloride	B4	µg/L	1.0	3.0	EPA 8260	03/29/95	DR	
Acetone	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
1,1-Dichloroethene	25.	µg/L	1.0	1.0	EPA 8260	03/29/95	DR	
1,1-Dichloroethane	48.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Total 1,2-Dichloroethene	58.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
1,1,1-Trichloroethane	E670	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

(1) "B" flag denotes detection of this analyte in the laboratory method blank analyzed concurrently with the sample.

(2) "E" flag indicates an estimated value. The analyte was detected in the sample at a concentration greater than the standard calibration range.

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0452-5
Report Date: 04/12/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW306	Aqueous	C. CORBETT	03/22/95	03/23/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	03/29/95	DR	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Trichloroethene	E370	µg/L	1.0	2.5	EPA 8260	03/29/95	DR	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	03/29/95	DR	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	03/29/95	DR	
Tetrachloroethene	2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Toluene	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0452-5
Report Date: 04/12/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW306	Aqueous	C. CORBETT	03/22/95	03/23/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Total Xylenes	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Dibromofluoromethane (Surr.)	103.	%	1.0		EPA 8260	03/29/95	DR	
Toluene-d8 (Surr.)	103.	%	1.0		EPA 8260	03/29/95	DR	
p-Bromofluorobenzene (Surr.)	98.	%	1.0		EPA 8260	03/29/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/12/95

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Respectfully submitted,
PACE, INC.

Laura J. O'Meara
Laura J. O'Meara
Supervisor, Client Services

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1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.:	EPMW106
Matrix (soil/water)	Water	Lab Sample ID:	EPMW306
Sample wt/vol:	5 (g/ml) ml	Lab File ID:	Y8025
Level: (low/med)	low	Date Received:	3/23/95
% Moisture: not dec.	N/A	Date Analyzed:	3/29/95
GC Column:	RTX-624 ID: 0.53	Dilution Factor:	1.0
Soil Extract Volume:	0 (ul)	Soil Aliquot Volume:	0 (ul)

Number of TIC's Found: 0

CONCENTRATION UNITS (ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0452-5
Report Date: 04/12/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW306	Aqueous	C. CORBETT	03/22/95	03/23/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Volatile Organics by EPA 8260 Dilution								1
Chloromethane	<25.	µg/L	5.0	5.0	EPA 8260	03/31/95	DR	
Bromomethane	<25.	µg/L	5.0	5.0	EPA 8260	03/31/95	DR	
Vinyl chloride	<10.	µg/L	5.0	2.0	EPA 8260	03/31/95	DR	
Chloroethane	<10.	µg/L	5.0	2.0	EPA 8260	03/31/95	DR	
Methylene chloride	B29	µg/L	5.0	3.0	EPA 8260	03/31/95	DR	
Acetone	<25.	µg/L	5.0	5.0	EPA 8260	03/31/95	DR	
Carbon disulfide	<25.	µg/L	5.0	5.0	EPA 8260	03/31/95	DR	
1,1-Dichloroethene	25.	µg/L	5.0	1.0	EPA 8260	03/31/95	DR	
1,1-Dichloroethane	47.	µg/L	5.0	2.0	EPA 8260	03/31/95	DR	
Total 1,2-Dichloroethene	59.	µg/L	5.0	2.0	EPA 8260	03/31/95	DR	
Chloroform	<25.	µg/L	5.0	5.0	EPA 8260	03/31/95	DR	
1,2-Dichloroethane	<10.	µg/L	5.0	2.0	EPA 8260	03/31/95	DR	
2-Butanone	<25.	µg/L	5.0	5.0	EPA 8260	03/31/95	DR	
1,1,1-Trichloroethane	670.	µg/L	5.0	2.0	EPA 8260	03/31/95	DR	
Carbon tetrachloride	<25.	µg/L	5.0	5.0	EPA 8260	03/31/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) "B" flag denotes detection of this analyte in the laboratory method blank analyzed concurrently with the sample.

04/12/95

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REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0452-5
Report Date: 04/12/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW306	Aqueous	C. CORBETT	03/22/95	03/23/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bromodichloromethane	<25.	µg/L	5.0	5.0	EPA 8260	03/31/95	DR	
1,2-Dichloropropane	<13.	µg/L	5.0	2.5	EPA 8260	03/31/95	DR	
cis-1,3-Dichloropropene	<25.	µg/L	5.0	5.0	EPA 8260	03/31/95	DR	
Trichloroethene	380.	µg/L	5.0	2.5	EPA 8260	03/31/95	DR	
Dibromochloromethane	<25.	µg/L	5.0	5.0	EPA 8260	03/31/95	DR	
1,1,2-Trichloroethane	<25.	µg/L	5.0	5.0	EPA 8260	03/31/95	DR	
Benzene	<10.	µg/L	5.0	2.0	EPA 8260	03/31/95	DR	
trans-1,3-Dichloropropene	<25.	µg/L	5.0	5.0	EPA 8260	03/31/95	DR	
Bromoform	<25.	µg/L	5.0	5.0	EPA 8260	03/31/95	DR	
4-Methyl-2-pentanone	<15.	µg/L	5.0	3.0	EPA 8260	03/31/95	DR	
2-Hexanone	<20.	µg/L	5.0	4.0	EPA 8260	03/31/95	DR	
Tetrachloroethene	<10.	µg/L	5.0	2.0	EPA 8260	03/31/95	DR	
1,1,2,2-Tetrachloroethane	<25.	µg/L	5.0	5.0	EPA 8260	03/31/95	DR	
Toluene	<10.	µg/L	5.0	2.0	EPA 8260	03/31/95	DR	
Chlorobenzene	<25.	µg/L	5.0	5.0	EPA 8260	03/31/95	DR	
Ethylbenzene	<10.	µg/L	5.0	2.0	EPA 8260	03/31/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

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REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0452-5
Report Date: 04/12/95
PO No. : 802LSQA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW306	Aqueous	C. CORBETT	03/22/95	03/23/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Styrene	<10.	µg/L	5.0	2.0	EPA 8260	03/31/95	DR	
Total Xylenes	<10.	µg/L	5.0	2.0	EPA 8260	03/31/95	DR	
Dibromofluoromethane (Surr.)	103.	%	5.0		EPA 8260	03/31/95	DR	
Toluene-d8 (Surr.)	101.	%	5.0		EPA 8260	03/31/95	DR	
p-Bromofluorobenzene (Surr.)	97.	%	5.0		EPA 8260	03/31/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/12/95

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VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.:	EPMW106
Matrix (soil/water)	Water	Lab Sample ID:	EPMW306DL
Sample wt/vol:	5 (g/ml) ml	Lab File ID:	Y8085
Level: (low/med)	low	Date Received:	3/23/95
% Moisture: not dec.	N/A	Date Analyzed:	3/31/95
GC Column:	RTX-624 ID: 0.53	Dilution Factor:	5.0
Soil Extract Volume:	0 (ul)	Soil Aliquot Volume:	0 (ul)

Number of TIC's Found: 0

CONCENTRATION UNITS (ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0452-6
Report Date: 04/12/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW307	Aqueous	C. CORBETT	03/22/95	03/23/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Volatile Organics by EPA 8260								1,2
Chloromethane	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
Vinyl chloride	<2.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	
Methylene chloride	B4	µg/L	1.0	3.0	EPA 8260	03/30/95	DR	
Acetone	JB3	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
1,1-Dichloroethene	<1.	µg/L	1.0	1.0	EPA 8260	03/30/95	DR	
1,1-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	
Total 1,2-Dichloroethene	<2.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
1,1,1-Trichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) "J" flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.
(2) "B" flag denotes detection of this analyte in the laboratory method blank analyzed concurrently with the sample.

04/12/95

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REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0452-6
Report Date: 04/12/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW307	Aqueous	C. CORBETT	03/22/95	03/23/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	03/30/95	DR	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
Trichloroethene	<2.5	µg/L	1.0	2.5	EPA 8260	03/30/95	DR	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	03/30/95	DR	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	03/30/95	DR	
Tetrachloroethene	<2.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
Toluene	<2.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/12/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0452-6
Report Date: 04/12/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW307	Aqueous	C. CORBETT	03/22/95	03/23/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	
Total Xylenes	<2.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	
Dibromofluoromethane (Surr.)	100.	%	1.0		EPA 8260	03/30/95	DR	
Toluene-d8 (Surr.)	101.	%	1.0		EPA 8260	03/30/95	DR	
p-Bromofluorobenzene (Surr.)	97.	%	1.0		EPA 8260	03/30/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/12/95

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1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.:	EPMW106
Matrix (soil/water)	Water	Lab Sample ID:	EPMW307
Sample wt/vol:	5 (g/ml) ml	Lab File ID:	Y8026
Level: (low/med)	low	Date Received:	3/23/95
% Moisture: not dec.	N/A	Date Analyzed:	3/30/95
GC Column:	RTX-624 ID: 0.53	Dilution Factor:	1.0
Soil Extract Volume:	0 (ul)	Soil Aliquot Volume:	0 (ul)

Number of TIC's Found: 0

CONCENTRATION UNITS (ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0485-3
Report Date: 04/13/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW308	Aqueous	B. ANDERSEN	03/29/95	03/30/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Volatile Organics by EPA 8260								1
Chloromethane	<5.	µg/L	1.0	5.0	EPA 8260	04/03/95	DR	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	04/03/95	DR	
Vinyl chloride	<2.	µg/L	1.0	2.0	EPA 8260	04/03/95	DR	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/03/95	DR	
Methylene chloride	<3.	µg/L	1.0	3.0	EPA 8260	04/03/95	DR	
Acetone	<5.	µg/L	1.0	5.0	EPA 8260	04/03/95	DR	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	04/03/95	DR	
1,1-Dichloroethene	<1.	µg/L	1.0	1.0	EPA 8260	04/03/95	DR	
1,1-Dichloroethane	J1.	µg/L	1.0	2.0	EPA 8260	04/03/95	DR	
Total 1,2-Dichloroethene	<2.	µg/L	1.0	2.0	EPA 8260	04/03/95	DR	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	04/03/95	DR	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/03/95	DR	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	04/03/95	DR	
1,1,1-Trichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/03/95	DR	
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	04/03/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) "J" flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.

04/13/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0485-3
Report Date: 04/13/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW308	Aqueous	B. ANDERSEN	03/29/95	03/30/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	04/03/95	DR	
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	04/03/95	DR	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	04/03/95	DR	
Trichloroethene	<2.5	µg/L	1.0	2.5	EPA 8260	04/03/95	DR	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	04/03/95	DR	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	04/03/95	DR	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	04/03/95	DR	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	04/03/95	DR	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	04/03/95	DR	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	04/03/95	DR	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	04/03/95	DR	
Tetrachloroethene	<2.	µg/L	1.0	2.0	EPA 8260	04/03/95	DR	
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	04/03/95	DR	
Toluene	<2.	µg/L	1.0	2.0	EPA 8260	04/03/95	DR	
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	04/03/95	DR	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	04/03/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/13/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0485-3
Report Date: 04/13/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW308	Aqueous	B. ANDERSEN	03/29/95	03/30/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	04/03/95	DR	
Total Xylenes	<2.	µg/L	1.0	2.0	EPA 8260	04/03/95	DR	
Dibromofluoromethane (Surr.)	102.	%	1.0		EPA 8260	04/03/95	DR	
Toluene-d8 (Surr.)	105.	%	1.0		EPA 8260	04/03/95	DR	
p-Bromofluorobenzene (Surr.)	96.	%	1.0		EPA 8260	04/03/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

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1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.:	EPMW202A
Matrix (soil/water)	Water	Lab Sample ID:	EPMW308
Sample wt/vol:	5 (g/ml) ml	Lab File ID:	Y8126
Level: (low/med)	low	Date Received:	3/30/95
% Moisture: not dec.	N/A	Date Analyzed:	4/3/95
GC Column:	RTX-624 ID: 0.53	Dilution Factor:	1.0
Soil Extract Volume:	0 (ul)	Soil Aliquot Volume:	0 (ul)

Number of TIC's Found: 0

CONCENTRATION UNITS
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0485-1
Report Date: 04/13/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW309A	Aqueous	B. ANDERSEN	03/29/95	03/30/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Volatile Organics by EPA 8260								1
Chloromethane	<5.	µg/L	1.0	5.0	EPA 8260	04/02/95	DR	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	04/02/95	DR	
Vinyl chloride	<2.	µg/L	1.0	2.0	EPA 8260	04/02/95	DR	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/02/95	DR	
Methylene chloride	<3.	µg/L	1.0	3.0	EPA 8260	04/02/95	DR	
Acetone	J1.	µg/L	1.0	5.0	EPA 8260	04/02/95	DR	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	04/02/95	DR	
1,1-Dichloroethene	<1.	µg/L	1.0	1.0	EPA 8260	04/02/95	DR	
1,1-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/02/95	DR	
Total 1,2-Dichloroethene	<2.	µg/L	1.0	2.0	EPA 8260	04/02/95	DR	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	04/02/95	DR	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/02/95	DR	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	04/02/95	DR	
1,1,1-Trichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/02/95	DR	
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	04/02/95	DR	

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(1) "J" flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.

04/13/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0485-1
Report Date: 04/13/95
PO No. : 802LSOA
Project : 29600.47

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW309A	Aqueous	B. ANDERSEN	03/29/95	03/30/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	04/02/95	DR	
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	04/02/95	DR	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	04/02/95	DR	
Trichloroethene	<2.5	µg/L	1.0	2.5	EPA 8260	04/02/95	DR	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	04/02/95	DR	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	04/02/95	DR	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	04/02/95	DR	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	04/02/95	DR	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	04/02/95	DR	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	04/02/95	DR	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	04/02/95	DR	
Tetrachloroethene	<2.	µg/L	1.0	2.0	EPA 8260	04/02/95	DR	
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	04/02/95	DR	
Toluene	<2.	µg/L	1.0	2.0	EPA 8260	04/02/95	DR	
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	04/02/95	DR	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	04/02/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/13/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0485-1
Report Date: 04/13/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW309A	Aqueous	B. ANDERSEN	03/29/95	03/30/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	04/02/95	DR	
Total Xylenes	<2.	µg/L	1.0	2.0	EPA 8260	04/02/95	DR	
Dibromofluoromethane (Surr.)	101.	%	1.0		EPA 8260	04/02/95	DR	
Toluene-d8 (Surr.)	109.	%	1.0		EPA 8260	04/02/95	DR	
p-Bromofluorobenzene (Surr.)	108.	%	1.0		EPA 8260	04/02/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/13/95

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1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.:	EPMW202A
Matrix (soil/water)	Water	Lab Sample ID:	EPMW309A
Sample wt/vol:	5 (g/ml) ml	Lab File ID:	Y82124
Level: (low/med)	low	Date Received:	3/30/95
% Moisture: not dec.	N/A	Date Analyzed:	4/2/95
GC Column:	RTX-624 ID: 0.53	Dilution Factor:	1.0
Soil Extract Volume:	0 (ul)	Soil Aliquot Volume:	0 (ul)

Number of TIC's Found: 1

CONCENTRATION UNITS
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 124389	Carbon Dioxide	2.18	7	JNB
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0485-2
Report Date: 04/13/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVEI
EPMW309B	Aqueous	B. ANDERSEN	03/29/95	03/30/9

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTI
Volatile Organics by EPA 8260								
Chloromethane	<5.	µg/L	1.0	5.0	EPA 8260	04/02/95	DR	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	04/02/95	DR	
Vinyl chloride	<2.	µg/L	1.0	2.0	EPA 8260	04/02/95	DR	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/02/95	DR	
Methylene chloride	<3.	µg/L	1.0	3.0	EPA 8260	04/02/95	DR	
Acetone	18.	µg/L	1.0	5.0	EPA 8260	04/02/95	DR	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	04/02/95	DR	
1,1-Dichloroethene	<1.	µg/L	1.0	1.0	EPA 8260	04/02/95	DR	
1,1-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/02/95	DR	
Total 1,2-Dichloroethene	<2.	µg/L	1.0	2.0	EPA 8260	04/02/95	DR	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	04/02/95	DR	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/02/95	DR	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	04/02/95	DR	
1,1,1-Trichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/02/95	DR	
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	04/02/95	DR	
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	04/02/95	DR	

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0485-2
Report Date: 04/13/95
PO No. : 802LSOA
Project : 29600.47

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW309B	Aqueous	B. ANDERSEN	03/29/95	03/30/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	04/02/95	DR	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	04/02/95	DR	
Trichloroethene	<2.5	µg/L	1.0	2.5	EPA 8260	04/02/95	DR	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	04/02/95	DR	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	04/02/95	DR	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	04/02/95	DR	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	04/02/95	DR	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	04/02/95	DR	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	04/02/95	DR	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	04/02/95	DR	
Tetrachloroethene	<2.	µg/L	1.0	2.0	EPA 8260	04/02/95	DR	
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	04/02/95	DR	
Toluene	<2.	µg/L	1.0	2.0	EPA 8260	04/02/95	DR	
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	04/02/95	DR	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	04/02/95	DR	
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	04/02/95	DR	
Total Xylenes	<2.	µg/L	1.0	2.0	EPA 8260	04/02/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/13/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0485-2
Report Date: 04/13/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVEI
EPMW309B	Aqueous	B. ANDERSEN	03/29/95	03/30/9

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTE
Dibromofluoromethane (Surr.)	104.	%	1.0		EPA 8260	04/02/95	DR	
Toluene-d8 (Surr.)	106.	%	1.0		EPA 8260	04/02/95	DR	
p-Bromofluorobenzene (Surr.)	99.	%	1.0		EPA 8260	04/02/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample specific reporting limits. Sample-specific limits are indicated by results annotated with '<' value

04/13/95

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1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.:	EPMW202A
Matrix (soil/water)	Water	Lab Sample ID:	EPMW309B
Sample wt/vol:	5 (g/ml) ml	Lab File ID:	Y8125
Level: (low/med)	low	Date Received:	3/30/95
% Moisture: not dec.	N/A	Date Analyzed:	4/2/95
GC Column:	RTX-624 ID: 0.53	Dilution Factor:	1.0
Soil Extract Volume:	0 (ul)	Soil Aliquot Volume:	0 (ul)

Number of TIC's Found: 0

CONCENTRATION UNITS
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0452-9
Report Date: 04/12/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIV
EPMW310	Aqueous	C. CORBETT	03/23/95	03/23/

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NC
Volatile Organics by EPA 8260								
Chloromethane	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
Vinyl chloride	<2.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	
Methylene chloride	JB2	µg/L	1.0	3.0	EPA 8260	03/30/95	DR	
Acetone	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
1,1-Dichloroethene	<1.	µg/L	1.0	1.0	EPA 8260	03/30/95	DR	
1,1-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	
Total 1,2-Dichloroethene	<2.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
1,1,1-Trichloroethane	5.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sampl specific reporting limits. Sample-specific limits are indicated by results annotated with '<' valu
(1) "J" flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.
(2) "B" flag denotes detection of this analyte in the laboratory method blank analyzed concurrently with the sample.

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0452-9
Report Date: 04/12/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW310	Aqueous	C. CORBETT	03/23/95	03/21/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTE
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	03/30/95	DR	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
Trichloroethene	J1.	µg/L	1.0	2.5	EPA 8260	03/30/95	DR	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	03/30/95	DR	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	03/30/95	DR	
Tetrachloroethene	2.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
Toluene	<2.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0452-9
Report Date: 04/12/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED	DATE RECEI
EPMW310	Aqueous	C. CORBETT	03/23/95	03/23/

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NC
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	03/30/95	DR	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	
Total Xylenes	<2.	µg/L	1.0	2.0	EPA 8260	03/30/95	DR	
Dibromofluoromethane (Surr.)	104.	%	1.0		EPA 8260	03/30/95	DR	
Toluene-d8 (Surr.)	102.	%	1.0		EPA 8260	03/30/95	DR	
p-Bromofluorobenzene (Surr.)	97.	%	1.0		EPA 8260	03/30/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samp specific reporting limits. Sample-specific limits are indicated by results annotated with '<' val

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VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.:	EPMW106
Matrix (soil/water)	Water	Lab Sample ID:	EPMW310
Sample wt/vol:	5 (g/ml) ml	Lab File ID:	Y8029
Level: (low/med)	low	Date Received:	3/23/95
% Moisture: not dec.	N/A	Date Analyzed:	3/30/95
GC Column:	RTX-624 ID: 0.53	Dilution Factor:	1.0
Soil Extract Volume:	0 (ul)	Soil Aliquot Volume:	0 (ul)

Number of TIC's Found: 0

CONCENTRATION UNITS (ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0485-8
Report Date: 04/13/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVE
EPMW313	Aqueous	B. ANDERSEN	03/29/95	03/30/9

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOT
Volatile Organics by EPA 8260								1
Chloromethane	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
Vinyl chloride	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
Methylene chloride	JB1	µg/L	1.0	3.0	EPA 8260	04/06/95	DR	
Acetone	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
1,1-Dichloroethene	<1.	µg/L	1.0	1.0	EPA 8260	04/06/95	DR	
1,1-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
Total 1,2-Dichloroethene	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
1,1,1-Trichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sampl specific reporting limits. Sample-specific limits are indicated by results annotated with '<' valu
(1) "J" flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.
(2) "B" flag denotes detection of this analyte in the laboratory method blank analyzed concurrently with the sample.

04/13/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0485-8
Report Date: 04/13/95
PO No. : 802LSQA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW313	Aqueous	B. ANDERSEN	03/29/95	03/30/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	04/06/95	DR	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
Trichloroethene	<2.5	µg/L	1.0	2.5	EPA 8260	04/06/95	DR	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	04/06/95	DR	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	04/06/95	DR	
Tetrachloroethene	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
Toluene	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values

04/13/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0485-8
Report Date: 04/13/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW313	Aqueous	B. ANDERSEN	03/29/95	03/30/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTE
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
Total Xylenes	J1.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
Dibromofluoromethane (Surr.)	101.	%	1.0		EPA 8260	04/06/95	DR	
Toluene-d8 (Surr.)	100.	%	1.0		EPA 8260	04/06/95	DR	
p-Bromofluorobenzene (Surr.)	103.	%	1.0		EPA 8260	04/06/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values

04/13/95

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VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.:	EPMW202A
Matrix (soil/water)	Water	Lab Sample ID:	EPMW313
Sample wt/vol:	5 (g/ml) ml	Lab File ID:	Y8220
Level: (low/med)	low	Date Received:	3/30/95
% Moisture: not dec.	N/A	Date Analyzed:	4/6/95
GC Column:	RTX-624 ID: 0.53	Dilution Factor:	1.0
Soil Extract Volume:	0 (ul)	Soil Aliquot Volume:	0 (ul)

Number of TIC's Found: 2

CONCENTRATION UNITS (ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 67630	2-Propanol	5.83	12	JN
2.	Unknown	22.27	8	JB
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0485-7
Report Date: 04/13/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW318	Aqueous	B. ANDERSEN	03/29/95	03/30/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTE
Volatile Organics by EPA 8260								
Chloromethane	<5.	µg/L	1.0	5.0	EPA 8260	04/03/95	DR	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	04/03/95	DR	
Vinyl chloride	<2.	µg/L	1.0	2.0	EPA 8260	04/03/95	DR	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/03/95	DR	
Methylene chloride	<3.	µg/L	1.0	3.0	EPA 8260	04/03/95	DR	
Acetone	9.	µg/L	1.0	5.0	EPA 8260	04/03/95	DR	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	04/03/95	DR	
1,1-Dichloroethene	<1.	µg/L	1.0	1.0	EPA 8260	04/03/95	DR	
1,1-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/03/95	DR	
Total 1,2-Dichloroethene	<2.	µg/L	1.0	2.0	EPA 8260	04/03/95	DR	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	04/03/95	DR	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/03/95	DR	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	04/03/95	DR	
1,1,1-Trichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/03/95	DR	
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	04/03/95	DR	
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	04/03/95	DR	

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0485-7
Report Date: 04/13/95
PO No. : 802LSQA
Project : 29600.47

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW318	Aqueous	B. ANDERSEN	03/29/95	03/30/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	04/03/95	DR	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	04/03/95	DR	
Trichloroethene	<2.5	µg/L	1.0	2.5	EPA 8260	04/03/95	DR	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	04/03/95	DR	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	04/03/95	DR	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	04/03/95	DR	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	04/03/95	DR	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	04/03/95	DR	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	04/03/95	DR	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	04/03/95	DR	
Tetrachloroethene	<2.	µg/L	1.0	2.0	EPA 8260	04/03/95	DR	
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	04/03/95	DR	
Toluene	<2.	µg/L	1.0	2.0	EPA 8260	04/03/95	DR	
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	04/03/95	DR	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	04/03/95	DR	
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	04/03/95	DR	
Total Xylenes	<2.	µg/L	1.0	2.0	EPA 8260	04/03/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values

04/13/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0485-7
Report Date: 04/13/95
PO No. : 802LSOA
Project : 29600.47

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVE
EPMW318	Aqueous	B. ANDERSEN	03/29/95	03/30/9

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOT
Dibromofluoromethane (Surr.)	103.	%	1.0		EPA 8260	04/03/95	DR	
Toluene-d8 (Surr.)	103.	%	1.0		EPA 8260	04/03/95	DR	
p-Bromofluorobenzene (Surr.)	100.	%	1.0		EPA 8260	04/03/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample specific reporting limits. Sample-specific limits are indicated by results annotated with '<' value

04/13/95

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1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.:	EPMW202A
Matrix (soil/water)	Water	Lab Sample ID:	EPMW318
Sample wt/vol:	5 (g/ml) ml	Lab File ID:	Y8130
Level: (low/med)	low	Date Received:	3/30/95
% Moisture: not dec.	N/A	Date Analyzed:	4/3/95
GC Column:	RTX-624 ID: 0.53	Dilution Factor:	1.0
Soil Extract Volume:	0 (ul)	Soil Aliquot Volume:	0 (ul)

Number of TIC's Found: 0

CONCENTRATION UNITS (ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0458-2
Report Date: 04/12/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEI
EPMW319	Aqueous	B. ANDERSEN	03/27/95	03/28

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	N
Volatile Organics by EPA 8260								
Chloromethane	<5.	µg/L	1.0	5.0	EPA 8260	04/01/95	DR	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	04/01/95	DR	
Vinyl chloride	<2.	µg/L	1.0	2.0	EPA 8260	04/01/95	DR	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/01/95	DR	
Methylene chloride	B3	µg/L	1.0	3.0	EPA 8260	04/01/95	DR	
Acetone	<5.	µg/L	1.0	5.0	EPA 8260	04/01/95	DR	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	04/01/95	DR	
1,1-Dichloroethene	<1.	µg/L	1.0	1.0	EPA 8260	04/01/95	DR	
1,1-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/01/95	DR	
Total 1,2-Dichloroethene	<2.	µg/L	1.0	2.0	EPA 8260	04/01/95	DR	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	04/01/95	DR	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/01/95	DR	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	04/01/95	DR	
1,1,1-Trichloroethane	3.	µg/L	1.0	2.0	EPA 8260	04/01/95	DR	
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	04/01/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sam specific reporting limits. Sample-specific limits are indicated by results annotated with '<' va

(1) "B" flag denotes detection of this analyte in the laboratory method blank analyzed concurrently with the sample.

04/12/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0458-2
Report Date: 04/12/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEI
EPMW319	Aqueous	B. ANDERSEN	03/27/95	03 8,

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	N
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	04/01/95	DR	
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	04/01/95	DR	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	04/01/95	DR	
Trichloroethene	6.	µg/L	1.0	2.5	EPA 8260	04/01/95	DR	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	04/01/95	DR	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	04/01/95	DR	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	04/01/95	DR	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	04/01/95	DR	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	04/01/95	DR	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	04/01/95	DR	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	04/01/95	DR	
Tetrachloroethene	16.	µg/L	1.0	2.0	EPA 8260	04/01/95	DR	
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	04/01/95	DR	
Toluene	<2.	µg/L	1.0	2.0	EPA 8260	04/01/95	DR	
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	04/01/95	DR	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	04/01/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samp specific reporting limits. Sample-specific limits are indicated by results annotated with '<' val

04/12/95

LJO/jcbear/gbp(dw)/sra
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0458-2
Report Date: 04/12/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVE
EPMW319	Aqueous	B. ANDERSEN	03/27/95	03/28/9

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOT
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	04/01/95	DR	
Total Xylenes	<2.	µg/L	1.0	2.0	EPA 8260	04/01/95	DR	
Dibromofluoromethane (Surr.)	104.	%	1.0		EPA 8260	04/01/95	DR	
Toluene-d8 (Surr.)	99.	%	1.0		EPA 8260	04/01/95	DR	
p-Bromofluorobenzene (Surr.)	94.	%	1.0		EPA 8260	04/01/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sampl specific reporting limits. Sample-specific limits are indicated by results annotated with '<' valu

04/12/95

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Respectfully submitted,
PACE, INC.
Laura J. O'Meara
Laura J. O'Meara
Supervisor, Client Services

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1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.:	EPMW106
Matrix (soil/water)	Water	Lab Sample ID:	EPMW319
Sample wt/vol:	5 (g/ml) ml	Lab File ID:	Y8090
Level: (low/med)	low	Date Received:	3/28/95
% Moisture: not dec.	N/A	Date Analyzed:	4/1/95
GC Column:	RTX-624 ID: 0.53	Dilution Factor:	1.0
Soil Extract Volume:	0 (ul)	Soil Aliquot Volume:	0 (ul)

Number of TIC's Found: 0

CONCENTRATION UNITS
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0485-9
Report Date: 04/13/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW1104	Aqueous	B. ANDERSEN	03/30/95	03/30/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Volatile Organics by EPA 8260								1
Chloromethane	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
Vinyl chloride	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
Methylene chloride	<3.	µg/L	1.0	3.0	EPA 8260	04/06/95	DR	
Acetone	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
1,1-Dichloroethene	4.	µg/L	1.0	1.0	EPA 8260	04/06/95	DR	
1,1-Dichloroethane	46.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
Total 1,2-Dichloroethene	E250	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
1,1,1-Trichloroethane	E300	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) "E" flag indicates an estimated value. The analyte was detected in the sample at a concentration greater than the standard calibration range.

04/13/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0485-9
Report Date: 04/13/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED	DATE RECEIVED
EPMW1104	Aqueous	B. ANDERSEN	03/30/95	03/30/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	04/06/95	DR	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
Trichloroethene	52.	µg/L	1.0	2.5	EPA 8260	04/06/95	DR	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	04/06/95	DR	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	04/06/95	DR	
Tetrachloroethene	2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
Toluene	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/13/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0485-9
Report Date: 04/13/95
PO No. : 802LSQA
Project : 29600.47

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW1104	Aqueous	B. ANDERSEN	03/30/95	03/30/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
Total Xylenes	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
Dibromofluoromethane (Surr.)	101.	%	1.0		EPA 8260	04/06/95	DR	
Toluene-d8 (Surr.)	101.	%	1.0		EPA 8260	04/06/95	DR	
p-Bromofluorobenzene (Surr.)	94.	%	1.0		EPA 8260	04/06/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/13/95

LJO/jcbear/gbp(dw)/sra
LD06VLW1

Respectfully submitted,
PACE, INC.

Laura J. O'Meara
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1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.:	EPMW202A
Matrix (soil/water)	Water	Lab Sample ID:	EPMW1104
Sample wt/vol:	5 (g/ml) ml	Lab File ID:	Y8224
Level: (low/med)	low	Date Received:	3/30/95
% Moisture: not dec.	N/A	Date Analyzed:	4/6/95
GC Column:	RTX-624 ID: 0.53	Dilution Factor:	1.0
Soil Extract Volume:	0 (ul)	Soil Aliquot Volume:	0 (ul)

Number of TIC's Found: 0

CONCENTRATION UNITS (ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0485-9
Report Date: 04/13/95
PO No. : 802LSQA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW1104	Aqueous	B. ANDERSEN	03/30/95	03/30/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Volatile Organics by EPA 8260 Dilution								1,2
Chloromethane	<10.	µg/L	2.0	5.0	EPA 8260	04/06/95	DR	
Bromomethane	<10.	µg/L	2.0	5.0	EPA 8260	04/06/95	DR	
Vinyl chloride	<4.	µg/L	2.0	2.0	EPA 8260	04/06/95	DR	
Chloroethane	<4.	µg/L	2.0	2.0	EPA 8260	04/06/95	DR	
Methylene chloride	JB3	µg/L	2.0	3.0	EPA 8260	04/06/95	DR	
Acetone	J3.	µg/L	2.0	5.0	EPA 8260	04/06/95	DR	
Carbon disulfide	<10.	µg/L	2.0	5.0	EPA 8260	04/06/95	DR	
1,1-Dichloroethene	5.	µg/L	2.0	1.0	EPA 8260	04/06/95	DR	
1,1-Dichloroethane	49.	µg/L	2.0	2.0	EPA 8260	04/06/95	DR	
Total 1,2-Dichloroethene	260.	µg/L	2.0	2.0	EPA 8260	04/06/95	DR	
Chloroform	<10.	µg/L	2.0	5.0	EPA 8260	04/06/95	DR	
1,2-Dichloroethane	<4.	µg/L	2.0	2.0	EPA 8260	04/06/95	DR	
2-Butanone	<10.	µg/L	2.0	5.0	EPA 8260	04/06/95	DR	
1,1,1-Trichloroethane	350.	µg/L	2.0	2.0	EPA 8260	04/06/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) "J" flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.
(2) "B" flag denotes detection of this analyte in the laboratory method blank analyzed concurrently with the sample.

04/13/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0485-9
Report Date: 04/13/95
PO No. : 802LSQA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW1104	Aqueous	B. ANDERSEN	03/30/95	03/30/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Carbon tetrachloride	<10.	µg/L	2.0	5.0	EPA 8260	04/06/95	DR	
Bromodichloromethane	<10.	µg/L	2.0	5.0	EPA 8260	04/06/95	DR	
1,2-Dichloropropane	<5.	µg/L	2.0	2.5	EPA 8260	04/06/95	DR	
cis-1,3-Dichloropropene	<10.	µg/L	2.0	5.0	EPA 8260	04/06/95	DR	
Trichloroethene	55.	µg/L	2.0	2.5	EPA 8260	04/06/95	DR	
Dibromochloromethane	<10.	µg/L	2.0	5.0	EPA 8260	04/06/95	DR	
1,1,2-Trichloroethane	<10.	µg/L	2.0	5.0	EPA 8260	04/06/95	DR	
Benzene	<4.	µg/L	2.0	2.0	EPA 8260	04/06/95	DR	
trans-1,3-Dichloropropene	<10.	µg/L	2.0	5.0	EPA 8260	04/06/95	DR	
Bromoform	<10.	µg/L	2.0	5.0	EPA 8260	04/06/95	DR	
4-Methyl-2-pentanone	<6.	µg/L	2.0	3.0	EPA 8260	04/06/95	DR	
2-Hexanone	<8.	µg/L	2.0	4.0	EPA 8260	04/06/95	DR	
Tetrachloroethene	J3.	µg/L	2.0	2.0	EPA 8260	04/06/95	DR	
1,1,2,2-Tetrachloroethane	<10.	µg/L	2.0	5.0	EPA 8260	04/06/95	DR	
Toluene	<4.	µg/L	2.0	2.0	EPA 8260	04/06/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/13/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0485-9
Report Date: 04/13/95
PO No. : 802LSQA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPMW1104	Aqueous	B. ANDERSEN	03/30/95	03/30/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chlorobenzene	<10.	µg/L	2.0	5.0	EPA 8260	04/06/95	DR	
Ethylbenzene	<4.	µg/L	2.0	2.0	EPA 8260	04/06/95	DR	
Styrene	<4.	µg/L	2.0	2.0	EPA 8260	04/06/95	DR	
Total Xylenes	J3.	µg/L	2.0	2.0	EPA 8260	04/06/95	DR	
Dibromofluoromethane (Surr.)	109.	%	2.0		EPA 8260	04/06/95	DR	
Toluene-d8 (Surr.)	101.	%	2.0		EPA 8260	04/06/95	DR	
p-Bromofluorobenzene (Surr.)	100.	%	2.0		EPA 8260	04/06/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/13/95

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.:	EPMW202A
Matrix (soil/water)	Water	Lab Sample ID:	EPMW1104DL
Sample wt/vol:	5 (g/ml) ml	Lab File ID:	Y8221
Level: (low/med)	low	Date Received:	3/30/95
% Moisture: not dec.	N/A	Date Analyzed:	4/6/95
GC Column:	RTX-624 ID: 0.53	Dilution Factor:	2.0
Soil Extract Volume:	0 (ul)	Soil Aliquot Volume:	0 (ul)

Number of TIC's Found: 1

CONCENTRATION UNITS
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	22.27	13	JB
2.				
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0499-10
Report Date: 04/19/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPP105	Aqueous	B.ANDERSEN	03/30/95	03/30/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Volatile Organics by EPA 8260								1,2,3
Chloromethane	<5.	µg/L	1.0	5.0	EPA 8260	04/08/95	DR	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	04/08/95	DR	
Vinyl chloride	<2.	µg/L	1.0	2.0	EPA 8260	04/08/95	DR	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/08/95	DR	
Methylene chloride	JB2	µg/L	1.0	3.0	EPA 8260	04/08/95	DR	
Acetone	B32	µg/L	1.0	5.0	EPA 8260	04/08/95	DR	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	04/08/95	DR	
1,1-Dichloroethene	E240	µg/L	1.0	1.0	EPA 8260	04/08/95	DR	
1,1-Dichloroethane	53.	µg/L	1.0	2.0	EPA 8260	04/08/95	DR	
Total 1,2-Dichloroethene	14.	µg/L	1.0	2.0	EPA 8260	04/08/95	DR	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	04/08/95	DR	
1,2-Dichloroethane	12.	µg/L	1.0	2.0	EPA 8260	04/08/95	DR	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	04/08/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

(1) "J" flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.

(2) "B" flag denotes detection of this analyte in the laboratory method blank analyzed concurrently with the sample.

(3) "E" flag indicates an estimated value. The analyte was detected in the sample at a concentration greater than the standard calibration range.

04/19/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0499-10
Report Date: 04/19/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPP105	Aqueous	B.ANDERSEN	03/30/95	03/30/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
1,1,1-Trichloroethane	E1600	µg/L	1.0	2.0	EPA 8260	04/08/95	DR	
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	04/08/95	DR	
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	04/08/95	DR	
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	04/08/95	DR	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	04/08/95	DR	
Trichloroethene	E420	µg/L	1.0	2.5	EPA 8260	04/08/95	DR	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	04/08/95	DR	
1,1,2-Trichloroethane	5.	µg/L	1.0	5.0	EPA 8260	04/08/95	DR	
Benzene	2.	µg/L	1.0	2.0	EPA 8260	04/08/95	DR	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	04/08/95	DR	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	04/08/95	DR	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	04/08/95	DR	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	04/08/95	DR	
Tetrachloroethene	8.	µg/L	1.0	2.0	EPA 8260	04/08/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/19/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0499-10
Report Date: 04/19/95
PO No. : 802LSQA
Project : 29600.47

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED	DATE RECEIVED
EPP105	Aqueous	B.ANDERSEN	03/30/95	03/30/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	04/08/95	DR	
Toluene	<2.	µg/L	1.0	2.0	EPA 8260	04/08/95	DR	
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	04/08/95	DR	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	04/08/95	DR	
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	04/08/95	DR	
Total Xylenes	<2.	µg/L	1.0	2.0	EPA 8260	04/08/95	DR	
Dibromofluoromethane (Surr.)	98.	%	1.0		EPA 8260	04/08/95	DR	
Toluene-d8 (Surr.)	95.	%	1.0		EPA 8260	04/08/95	DR	
p-Bromofluorobenzene (Surr.)	98.	%	1.0		EPA 8260	04/08/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/19/95

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.:	EPMW207B
Matrix (soil/water)	Water	Lab Sample ID:	EPP105
Sample wt/vol:	5 (g/ml) ml	Lab File ID:	Y8274
Level: (low/med)	low	Date Received:	3/31/95
% Moisture: not dec.	N/A	Date Analyzed:	4/8/95
GC Column:	RTX-624 ID: 0.53	Dilution Factor:	1.0
Soil Extract Volume:	0 (ul)	Soil Aliquot Volume:	0 (ul)

Number of TIC's Found: 1

CONCENTRATION UNITS
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 67630	2-Propanol	5.85	40	JN
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0499-10
Report Date: 04/19/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED	DATE RECEIVED
EPP105	Aqueous	B.ANDERSEN	03/30/95	03/30/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Volatile Organics by EPA 8260 Dilution								1,2,3
Chloromethane	<250.	µg/L	50.0	5.0	EPA 8260	04/11/95	CB	
Bromomethane	<250.	µg/L	50.0	5.0	EPA 8260	04/11/95	CB	
Vinyl chloride	<100.	µg/L	50.0	2.0	EPA 8260	04/11/95	CB	
Chloroethane	<100.	µg/L	50.0	2.0	EPA 8260	04/11/95	CB	
Methylene chloride	JB130	µg/L	50.0	3.0	EPA 8260	04/11/95	CB	
Acetone	B1600	µg/L	50.0	5.0	EPA 8260	04/11/95	CB	
Carbon disulfide	<250.	µg/L	50.0	5.0	EPA 8260	04/11/95	CB	
1,1-Dichloroethene	300.	µg/L	50.0	1.0	EPA 8260	04/11/95	CB	
1,1-Dichloroethane	J67.	µg/L	50.0	2.0	EPA 8260	04/11/95	CB	
Total 1,2-Dichloroethene	<100.	µg/L	50.0	2.0	EPA 8260	04/11/95	CB	
Chloroform	<250.	µg/L	50.0	5.0	EPA 8260	04/11/95	CB	
1,2-Dichloroethane	<100.	µg/L	50.0	2.0	EPA 8260	04/11/95	CB	
2-Butanone	<250.	µg/L	50.0	5.0	EPA 8260	04/11/95	CB	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

(1) "J" flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.

(2) "B" flag denotes detection of this analyte in the laboratory method blank analyzed concurrently with the sample.

(3) Sample dilution required for quantitation of one or more target analytes; therefore, standard laboratory Practical Quantitation Level (PQL) could not be achieved.

04/19/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0499-10
Report Date: 04/19/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED	DATE RECEIVED
EPP105	Aqueous	B.ANDERSEN	03/30/95	03/30/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
1,1,1-Trichloroethane	3300.	µg/L	50.0	2.0	EPA 8260	04/11/95	CB	
Carbon tetrachloride	<250.	µg/L	50.0	5.0	EPA 8260	04/11/95	CB	
Bromodichloromethane	<250.	µg/L	50.0	5.0	EPA 8260	04/11/95	CB	
1,2-Dichloropropane	<130.	µg/L	50.0	2.5	EPA 8260	04/11/95	CB	
cis-1,3-Dichloropropene	<250.	µg/L	50.0	5.0	EPA 8260	04/11/95	CB	
Trichloroethene	460.	µg/L	50.0	2.5	EPA 8260	04/11/95	CB	
Dibromochloromethane	<250.	µg/L	50.0	5.0	EPA 8260	04/11/95	CB	
1,1,2-Trichloroethane	<250.	µg/L	50.0	5.0	EPA 8260	04/11/95	CB	
Benzene	<100.	µg/L	50.0	2.0	EPA 8260	04/11/95	CB	
trans-1,3-Dichloropropene	<250.	µg/L	50.0	5.0	EPA 8260	04/11/95	CB	
Bromoform	<250.	µg/L	50.0	5.0	EPA 8260	04/11/95	CB	
4-Methyl-2-pentanone	<150.	µg/L	50.0	3.0	EPA 8260	04/11/95	CB	
2-Hexanone	<200.	µg/L	50.0	4.0	EPA 8260	04/11/95	CB	
Tetrachloroethene	<100.	µg/L	50.0	2.0	EPA 8260	04/11/95	CB	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/19/95

LJO/jcbgbp(dw)/sra/tjg
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0499-10
Report Date: 04/19/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPP105	Aqueous	B.ANDERSEN	03/30/95	03/30/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
1,1,2,2-Tetrachloroethane	<250.	µg/L	50.0	5.0	EPA 8260	04/11/95	CB	
Toluene	<100.	µg/L	50.0	2.0	EPA 8260	04/11/95	CB	
Chlorobenzene	<250.	µg/L	50.0	5.0	EPA 8260	04/11/95	CB	
Ethylbenzene	<100.	µg/L	50.0	2.0	EPA 8260	04/11/95	CB	
Styrene	<100.	µg/L	50.0	2.0	EPA 8260	04/11/95	CB	
Total Xylenes	<100.	µg/L	50.0	2.0	EPA 8260	04/11/95	CB	
Dibromofluoromethane (Surr.)	105.	%	50.0		EPA 8260	04/11/95	CB	
Toluene-d8 (Surr.)	99.	%	50.0		EPA 8260	04/11/95	CB	
p-Bromofluorobenzene (Surr.)	99.	%	50.0		EPA 8260	04/11/95	CB	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/19/95

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1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.:	EPMW207B
Matrix (soil/water)	Water	Lab Sample ID:	EPP105DL
Sample wt/vol:	5 (g/ml) ml	Lab File ID:	Y8341
Level: (low/med)	low	Date Received:	3/31/95
% Moisture: not dec.	N/A	Date Analyzed:	4/11/95
GC Column:	RTX-624 ID: 0.53	Dilution Factor:	50.0
Soil Extract Volume:	0 (ul)	Soil Aliquot Volume:	0 (ul)

Number of TIC's Found: 2

CONCENTRATION UNITS (ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 124389	Carbon Dioxide	2.10	420	JNB
2.	Unknown	22.27	420	JB
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0499-11
Report Date: 04/19/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPP105	Aqueous	B.ANDERSEN	03/30/95	03/30/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Volatile Organics by EPA 8260								1,2,3
Chloromethane	<5.	µg/L	1.0	5.0	EPA 8260	04/08/95	CB	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	04/08/95	CB	
Vinyl chloride	<2.	µg/L	1.0	2.0	EPA 8260	04/08/95	CB	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/08/95	CB	
Methylene chloride	JB1	µg/L	1.0	3.0	EPA 8260	04/08/95	CB	
Acetone	BE410	µg/L	1.0	5.0	EPA 8260	04/08/95	CB	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	04/08/95	CB	
1,1-Dichloroethene	92.	µg/L	1.0	1.0	EPA 8260	04/08/95	CB	
1,1-Dichloroethane	24.	µg/L	1.0	2.0	EPA 8260	04/08/95	CB	
Total 1,2-Dichloroethene	4.	µg/L	1.0	2.0	EPA 8260	04/08/95	CB	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	04/08/95	CB	
1,2-Dichloroethane	6.	µg/L	1.0	2.0	EPA 8260	04/08/95	CB	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	04/08/95	CB	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

(1) "J" flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.

(2) "B" flag denotes detection of this analyte in the laboratory method blank analyzed concurrently with the sample.

(3) "E" flag indicates an estimated value. The analyte was detected in the sample at a concentration greater than the standard calibration range.

04/19/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0499-11
Report Date: 04/19/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPP106	Aqueous	B.ANDERSEN	03/30/95	03/30/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
1,1,1-Trichloroethane	E890	µg/L	1.0	2.0	EPA 8260	04/08/95	CB	
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	04/08/95	CB	
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	04/08/95	CB	
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	04/08/95	CB	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	04/08/95	CB	
Trichloroethene	170.	µg/L	1.0	2.5	EPA 8260	04/08/95	CB	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	04/08/95	CB	
1,1,2-Trichloroethane	J2.	µg/L	1.0	5.0	EPA 8260	04/08/95	CB	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	04/08/95	CB	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	04/08/95	CB	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	04/08/95	CB	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	04/08/95	CB	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	04/08/95	CB	
Tetrachloroethene	4.	µg/L	1.0	2.0	EPA 8260	04/08/95	CB	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/19/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0499-11
Report Date: 04/19/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPP106	Aqueous	B.ANDERSEN	03/30/95	03/30/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	04/08/95	CB	
Toluene	<2.	µg/L	1.0	2.0	EPA 8260	04/08/95	CB	
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	04/08/95	CB	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	04/08/95	CB	
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	04/08/95	CB	
Total Xylenes	<2.	µg/L	1.0	2.0	EPA 8260	04/08/95	CB	
Dibromofluoromethane (Surr.)	101.	%	1.0		EPA 8260	04/08/95	CB	
Toluene-d8 (Surr.)	97.	%	1.0		EPA 8260	04/08/95	CB	
p-Bromofluorobenzene (Surr.)	93.	%	1.0		EPA 8260	04/08/95	CB	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/19/95

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Respectfully submitted,
PACE, INC.

Laura J. O'Meara
Laura J. O'Meara
Supervisor, Client Services

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VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.:	EPMW207B
Matrix (soil/water)	Water	Lab Sample ID:	EPP106
Sample wt/vol:	5 (g/ml) ml	Lab File ID:	Y8275
Level: (low/med)	low	Date Received:	3/31/95
% Moisture: not dec.	N/A	Date Analyzed:	4/8/95
GC Column:	RTX-624 ID: 0.53	Dilution Factor:	1.0
Soil Extract Volume:	0 (ul)	Soil Aliquot Volume:	0 (ul)

Number of TIC's Found: 1

CONCENTRATION UNITS (ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 67630	2-Propanol	5.83	8	JN
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pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0499-11
Report Date: 04/19/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPP106	Aqueous	B.ANDERSEN	03/30/95	03/30/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Volatile Organics by EPA 8260 Dilution								1,2,3
Chloromethane	<50.	µg/L	10.0	5.0	EPA 8260	04/10/95	CB	
Bromomethane	<50.	µg/L	10.0	5.0	EPA 8260	04/10/95	CB	
Vinyl chloride	<20.	µg/L	10.0	2.0	EPA 8260	04/10/95	CB	
Chloroethane	<20.	µg/L	10.0	2.0	EPA 8260	04/10/95	CB	
Methylene chloride	JB20	µg/L	10.0	3.0	EPA 8260	04/10/95	CB	
Acetone	350.	µg/L	10.0	5.0	EPA 8260	04/10/95	CB	
Carbon disulfide	<50.	µg/L	10.0	5.0	EPA 8260	04/10/95	CB	
1,1-Dichloroethene	87.	µg/L	10.0	1.0	EPA 8260	04/10/95	CB	
1,1-Dichloroethane	25.	µg/L	10.0	2.0	EPA 8260	04/10/95	CB	
Total 1,2-Dichloroethene	<20.	µg/L	10.0	2.0	EPA 8260	04/10/95	CB	
Chloroform	<50.	µg/L	10.0	5.0	EPA 8260	04/10/95	CB	
1,2-Dichloroethane	<20.	µg/L	10.0	2.0	EPA 8260	04/10/95	CB	
2-Butanone	<50.	µg/L	10.0	5.0	EPA 8260	04/10/95	CB	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

(1) "J" flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.

(2) "B" flag denotes detection of this analyte in the laboratory method blank analyzed concurrently with the sample.

(3) Sample dilution required for quantitation of one or more target analytes; therefore, standard laboratory Practical Quantitation Level (PQL) could not be achieved.

04/19/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0499-11
Report Date: 04/19/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED	DATE RECEIVED
EPP106	Aqueous	B.ANDERSEN	03/30/95	03/30/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
1,1,1-Trichloroethane	840.	µg/L	10.0	2.0	EPA 8260	04/10/95	CB	
Carbon tetrachloride	<50.	µg/L	10.0	5.0	EPA 8260	04/10/95	CB	
Bromodichloromethane	<50.	µg/L	10.0	5.0	EPA 8260	04/10/95	CB	
1,2-Dichloropropane	<25.	µg/L	10.0	2.5	EPA 8260	04/10/95	CB	
cis-1,3-Dichloropropene	<50.	µg/L	10.0	5.0	EPA 8260	04/10/95	CB	
Trichloroethene	160.	µg/L	10.0	2.5	EPA 8260	04/10/95	CB	
Dibromochloromethane	<50.	µg/L	10.0	5.0	EPA 8260	04/10/95	CB	
1,1,2-Trichloroethane	<50.	µg/L	10.0	5.0	EPA 8260	04/10/95	CB	
Benzene	<20.	µg/L	10.0	2.0	EPA 8260	04/10/95	CB	
trans-1,3-Dichloropropene	<50.	µg/L	10.0	5.0	EPA 8260	04/10/95	CB	
Bromoform	<50.	µg/L	10.0	5.0	EPA 8260	04/10/95	CB	
4-Methyl-2-pentanone	<30.	µg/L	10.0	3.0	EPA 8260	04/10/95	CB	
2-Hexanone	<40.	µg/L	10.0	4.0	EPA 8260	04/10/95	CB	
Tetrachloroethene	<20.	µg/L	10.0	2.0	EPA 8260	04/10/95	CB	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/19/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0499-11
Report Date: 04/19/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED	DATE RECEIVED
EPP106	Aqueous	B.ANDERSEN	03/30/95	03/30/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
1,1,2,2-Tetrachloroethane	<50.	µg/L	10.0	5.0	EPA 8260	04/10/95	CB	
Toluene	<20.	µg/L	10.0	2.0	EPA 8260	04/10/95	CB	
Chlorobenzene	<50.	µg/L	10.0	5.0	EPA 8260	04/10/95	CB	
Ethylbenzene	<20.	µg/L	10.0	2.0	EPA 8260	04/10/95	CB	
Styrene	<20.	µg/L	10.0	2.0	EPA 8260	04/10/95	CB	
Total Xylenes	<20.	µg/L	10.0	2.0	EPA 8260	04/10/95	CB	
Dibromofluoromethane (Surr.)	109.	%	10.0		EPA 8260	04/10/95	CB	
Toluene-d8 (Surr.)	99.	%	10.0		EPA 8260	04/10/95	CB	
p-Bromofluorobenzene (Surr.)	95.	%	10.0		EPA 8260	04/10/95	CB	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/19/95

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1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.:	EPMW207B
Matrix (soil/water)	Water	Lab Sample ID:	EPP106DL
Sample wt/vol:	5 (g/ml) ml	Lab File ID:	Y8321
Level: (low/med)	low	Date Received:	3/31/95
% Moisture: not dec.	N/A	Date Analyzed:	4/10/95
GC Column:	RTX-624 ID: 0.53	Dilution Factor:	10.0
Soil Extract Volume:	0 (ul)	Soil Aliquot Volume:	0 (ul)

Number of TIC's Found: 0

CONCENTRATION UNITS (ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0499-5
Report Date: 04/19/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPP111	Aqueous	B.ANDERSEN	03/30/95	03/30/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Volatile Organics by EPA 8260								1,2,3
Chloromethane	<5.	µg/L	1.0	5.0	EPA 8260	04/08/95	CB	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	04/08/95	CB	
Vinyl chloride	<2.	µg/L	1.0	2.0	EPA 8260	04/08/95	CB	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/08/95	CB	
Methylene chloride	JB1	µg/L	1.0	3.0	EPA 8260	04/08/95	CB	
Acetone	BE240	µg/L	1.0	5.0	EPA 8260	04/08/95	CB	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	04/08/95	CB	
1,1-Dichloroethene	<1.	µg/L	1.0	1.0	EPA 8260	04/08/95	CB	
1,1-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/08/95	CB	
Total 1,2-Dichloroethene	<2.	µg/L	1.0	2.0	EPA 8260	04/08/95	CB	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	04/08/95	CB	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/08/95	CB	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	04/08/95	CB	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

(1) "J" flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.

(2) "B" flag denotes detection of this analyte in the laboratory method blank analyzed concurrently with the sample.

(3) "E" flag indicates an estimated value. The analyte was detected in the sample at a concentration greater than the standard calibration range.

04/19/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0499-5
Report Date: 04/19/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPP111	Aqueous	B.ANDERSEN	03/30/95	03/30/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
1,1,1-Trichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/08/95	CB	
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	04/08/95	CB	
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	04/08/95	CB	
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	04/08/95	CB	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	04/08/95	CB	
Trichloroethene	<2.5	µg/L	1.0	2.5	EPA 8260	04/08/95	CB	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	04/08/95	CB	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	04/08/95	CB	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	04/08/95	CB	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	04/08/95	CB	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	04/08/95	CB	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	04/08/95	CB	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	04/08/95	CB	
Tetrachloroethene	<2.	µg/L	1.0	2.0	EPA 8260	04/08/95	CB	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/19/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0499-5
Report Date: 04/19/95
PO No. : 802LSQA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED	DATE RECEIVED
EPP111	Aqueous	B.ANDERSEN	03/30/95	03/30/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	04/08/95	CB	
Toluene	<2.	µg/L	1.0	2.0	EPA 8260	04/08/95	CB	
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	04/08/95	CB	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	04/08/95	CB	
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	04/08/95	CB	
Total Xylenes	<2.	µg/L	1.0	2.0	EPA 8260	04/08/95	CB	
Dibromofluoromethane (Surr.)	100.	%	1.0		EPA 8260	04/08/95	CB	
Toluene-d8 (Surr.)	99.	%	1.0		EPA 8260	04/08/95	CB	
p-Bromofluorobenzene (Surr.)	96.	%	1.0		EPA 8260	04/08/95	CB	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/19/95

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VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.:	EPMW207B
Matrix (soil/water)	Water	Lab Sample ID:	EPP111
Sample wt/vol:	5 (g/ml) ml	Lab File ID:	Y8269
Level: (low/med)	low	Date Received:	3/31/95
% Moisture: not dec.	N/A	Date Analyzed:	4/8/95
GC Column:	RTX-624 ID: 0.53	Dilution Factor:	1.0
Soil Extract Volume:	0 (ul)	Soil Aliquot Volume:	0 (ul)

Number of TIC's Found: 1

CONCENTRATION UNITS (ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 67630	2-Propanol	5.81	3	JN
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pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0499-5
Report Date: 04/19/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED	DATE RECEIVED
EPP111	Aqueous	B.ANDERSEN	03/30/95	03/30/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Volatile Organics by EPA 8260 Dilution								1,2
Chloromethane	<10.	µg/L	2.0	5.0	EPA 8260	04/10/95	CB	
Bromomethane	<10.	µg/L	2.0	5.0	EPA 8260	04/10/95	CB	
Vinyl chloride	<4.	µg/L	2.0	2.0	EPA 8260	04/10/95	CB	
Chloroethane	<4.	µg/L	2.0	2.0	EPA 8260	04/10/95	CB	
Methylene chloride	B7	µg/L	2.0	3.0	EPA 8260	04/10/95	CB	
Acetone	170.	µg/L	2.0	5.0	EPA 8260	04/10/95	CB	
Carbon disulfide	<10.	µg/L	2.0	5.0	EPA 8260	04/10/95	CB	
1,1-Dichloroethene	<2.	µg/L	2.0	1.0	EPA 8260	04/10/95	CB	
1,1-Dichloroethane	<4.	µg/L	2.0	2.0	EPA 8260	04/10/95	CB	
Total 1,2-Dichloroethene	<4.	µg/L	2.0	2.0	EPA 8260	04/10/95	CB	
Chloroform	<10.	µg/L	2.0	5.0	EPA 8260	04/10/95	CB	
1,2-Dichloroethane	<4.	µg/L	2.0	2.0	EPA 8260	04/10/95	CB	
2-Butanone	<10.	µg/L	2.0	5.0	EPA 8260	04/10/95	CB	
1,1,1-Trichloroethane	<4.	µg/L	2.0	2.0	EPA 8260	04/10/95	CB	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

(1) "B" flag denotes detection of this analyte in the laboratory method blank analyzed concurrently with the sample.

(2) Sample dilution required for quantitation of one or more target analytes; therefore, standard laboratory Practical Quantitation Level (PQL) could not be achieved.

04/19/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0499-5
Report Date: 04/19/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPP111	Aqueous	B.ANDERSEN	03/30/95	03/30/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Carbon tetrachloride	<10.	µg/L	2.0	5.0	EPA 8260	04/10/95	CB	
Bromodichloromethane	<10.	µg/L	2.0	5.0	EPA 8260	04/10/95	CB	
1,2-Dichloropropane	<5.	µg/L	2.0	2.5	EPA 8260	04/10/95	CB	
cis-1,3-Dichloropropene	<10.	µg/L	2.0	5.0	EPA 8260	04/10/95	CB	
Trichloroethene	<5.	µg/L	2.0	2.5	EPA 8260	04/10/95	CB	
Dibromochloromethane	<10.	µg/L	2.0	5.0	EPA 8260	04/10/95	CB	
1,1,2-Trichloroethane	<10.	µg/L	2.0	5.0	EPA 8260	04/10/95	CB	
Benzene	<4.	µg/L	2.0	2.0	EPA 8260	04/10/95	CB	
trans-1,3-Dichloropropene	<10.	µg/L	2.0	5.0	EPA 8260	04/10/95	CB	
Bromoform	<10.	µg/L	2.0	5.0	EPA 8260	04/10/95	CB	
4-Methyl-2-pentanone	<6.	µg/L	2.0	3.0	EPA 8260	04/10/95	CB	
2-Hexanone	<8.	µg/L	2.0	4.0	EPA 8260	04/10/95	CB	
Tetrachloroethene	<4.	µg/L	2.0	2.0	EPA 8260	04/10/95	CB	
1,1,2,2-Tetrachloroethane	<10.	µg/L	2.0	5.0	EPA 8260	04/10/95	CB	
Toluene	<4.	µg/L	2.0	2.0	EPA 8260	04/10/95	CB	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/19/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0499-5
Report Date: 04/19/95
PO No. : 802LSOA
Project : 29600.47

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPP111	Aqueous	B.ANDERSEN	03/30/95	03/30/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chlorobenzene	<10.	µg/L	2.0	5.0	EPA 8260	04/10/95	CB	
Ethylbenzene	<4.	µg/L	2.0	2.0	EPA 8260	04/10/95	CB	
Styrene	<4.	µg/L	2.0	2.0	EPA 8260	04/10/95	CB	
Total Xylenes	<4.	µg/L	2.0	2.0	EPA 8260	04/10/95	CB	
Dibromofluoromethane (Surr.)	107.	%	2.0		EPA 8260	04/10/95	CB	
Toluene-d8 (Surr.)	98.	%	2.0		EPA 8260	04/10/95	CB	
p-Bromofluorobenzene (Surr.)	95.	%	2.0		EPA 8260	04/10/95	CB	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/19/95

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.:	EPMW207B
Matrix (soil/water)	Water	Lab Sample ID:	EPP111DL
Sample wt/vol:	5 (g/ml) ml	Lab File ID:	Y8317
Level: (low/med)	low	Date Received:	3/31/95
% Moisture: not dec.	N/A	Date Analyzed:	4/10/95
GC Column:	RTX-624 ID: 0.53	Dilution Factor:	2.0
Soil Extract Volume:	0 (ul)	Soil Aliquot Volume:	0 (ul)

Number of TIC's Found: 0

CONCENTRATION UNITS
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0499-6
Report Date: 04/19/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPP132	Aqueous	B.ANDERSEN	03/30/95	03/31/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Volatile Organics by EPA 8260								1,2
Chloromethane	<5.	µg/L	1.0	5.0	EPA 8260	04/10/95	TG	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	04/10/95	TG	
Vinyl chloride	<2.	µg/L	1.0	2.0	EPA 8260	04/10/95	TG	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/10/95	TG	
Methylene chloride	JB2	µg/L	1.0	3.0	EPA 8260	04/10/95	TG	
Acetone	35.	µg/L	1.0	5.0	EPA 8260	04/10/95	TG	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	04/10/95	TG	
1,1-Dichloroethene	<1.	µg/L	1.0	1.0	EPA 8260	04/10/95	TG	
1,1-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/10/95	TG	
Total 1,2-Dichloroethene	<2.	µg/L	1.0	2.0	EPA 8260	04/10/95	TG	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	04/10/95	TG	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/10/95	TG	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	04/10/95	TG	
1,1,1-Trichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/10/95	TG	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) "J" flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.
(2) "B" flag denotes detection of this analyte in the laboratory method blank analyzed concurrently with the sample.

04/19/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0499-6
Report Date: 04/19/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPP132	Aqueous	B.ANDERSEN	03/30/95	03/31/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	04/10/95	TG	
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	04/10/95	TG	
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	04/10/95	TG	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	04/10/95	TG	
Trichloroethene	<2.5	µg/L	1.0	2.5	EPA 8260	04/10/95	TG	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	04/10/95	TG	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	04/10/95	TG	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	04/10/95	TG	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	04/10/95	TG	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	04/10/95	TG	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	04/10/95	TG	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	04/10/95	TG	
Tetrachloroethene	<2.	µg/L	1.0	2.0	EPA 8260	04/10/95	TG	
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	04/10/95	TG	
Toluene	<2.	µg/L	1.0	2.0	EPA 8260	04/10/95	TG	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/19/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0499-6
Report Date: 04/19/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPP132	Aqueous	B.ANDERSEN	03/30/95	03/31/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	04/10/95	TG	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	04/10/95	TG	
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	04/10/95	TG	
Total Xylenes	<2.	µg/L	1.0	2.0	EPA 8260	04/10/95	TG	
Dibromofluoromethane (Surr.)	101.	%	1.0		EPA 8260	04/10/95	TG	
Toluene-d8 (Surr.)	97.	%	1.0		EPA 8260	04/10/95	TG	
p-Bromofluorobenzene (Surr.)	94.	%	1.0		EPA 8260	04/10/95	TG	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/19/95

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.:	EPMW207B
Matrix (soil/water)	Water	Lab Sample ID:	EPP132
Sample wt/vol:	5 (g/ml) ml	Lab File ID:	Y8315
Level: (low/med)	low	Date Received:	3/31/95
% Moisture: not dec.	N/A	Date Analyzed:	4/10/95
GC Column:	RTX-624 ID: 0.53	Dilution Factor:	1.0
Soil Extract Volume:	0 (ul)	Soil Aliquot Volume:	0 (ul)

Number of TIC's Found: 1

CONCENTRATION UNITS (ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 67630	2-Propanol	5.68	24	JN
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0452-2
Report Date: 04/12/95
PO No. : 802LSQA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPTB002	Aqueous	C. CORBETT	03/21/95	03/23/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Volatile Organics by EPA 8260								1
Chloromethane	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Vinyl chloride	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Methylene chloride	6.	µg/L	1.0	3.0	EPA 8260	03/29/95	DR	
Acetone	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
1,1-Dichloroethene	<1.	µg/L	1.0	1.0	EPA 8260	03/29/95	DR	
1,1-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Total 1,2-Dichloroethene	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
1,1,1-Trichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	

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(1) "J" flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.

04/12/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0452-2
Report Date: 04/12/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPTB002	Aqueous	C. CORBETT	03/21/95	03/23/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	03/29/95	DR	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Trichloroethene	<2.5	µg/L	1.0	2.5	EPA 8260	03/29/95	DR	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	03/29/95	DR	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	03/29/95	DR	
Tetrachloroethene	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
1,1,2,2-Tetrachloroethane	J1.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Toluene	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/12/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0452-2
Report Date: 04/12/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPTB002	Aqueous	C. CORBETT	03/21/95	03/23/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Total Xylenes	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Dibromofluoromethane (Surr.)	104.	%	1.0		EPA 8260	03/29/95	DR	
Toluene-d8 (Surr.)	100.	%	1.0		EPA 8260	03/29/95	DR	
p-Bromofluorobenzene (Surr.)	99.	%	1.0		EPA 8260	03/29/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/12/95

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.:	EPMW106
Matrix (soil/water)	Water	Lab Sample ID:	EPTB002
Sample wt/vol:	5 (g/ml) ml	Lab File ID:	Y8018
Level: (low/med)	low	Date Received:	3/23/95
% Moisture: not dec.	N/A	Date Analyzed:	3/29/95
GC Column:	RTX-624 ID: 0.53	Dilution Factor:	1.0
Soil Extract Volume:	0 (ul)	Soil Aliquot Volume:	0 (ul)

Number of TIC's Found: 0

CONCENTRATION UNITS
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0457-3
Report Date: 04/12/95
PO No. : 802LSOA
Project : 29600.47

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPTB003	Aqueous	R. SHOCKLEY	03/23/95	03/24/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTE
Volatile Organics by EPA 8260								
Chloromethane	<5.	µg/L	1.0	5.0	EPA 8260	03/31/95	DR	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	03/31/95	DR	
Vinyl chloride	<2.	µg/L	1.0	2.0	EPA 8260	03/31/95	DR	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	03/31/95	DR	
Methylene chloride	B5	µg/L	1.0	3.0	EPA 8260	03/31/95	DR	
Acetone	<5.	µg/L	1.0	5.0	EPA 8260	03/31/95	DR	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	03/31/95	DR	
1,1-Dichloroethene	<1.	µg/L	1.0	1.0	EPA 8260	03/31/95	DR	
1,1-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	03/31/95	DR	
Total 1,2-Dichloroethene	<2.	µg/L	1.0	2.0	EPA 8260	03/31/95	DR	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	03/31/95	DR	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	03/31/95	DR	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	03/31/95	DR	
1,1,1-Trichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	03/31/95	DR	
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	03/31/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values
(1) "B" flag denotes detection of this analyte in the laboratory method blank analyzed concurrently with the sample.

04/12/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0457-3
Report Date: 04/12/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPTB003	Aqueous	R. SHOCKLEY	03/23/95	03/24/9

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	03/31/95	DR	
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	03/31/95	DR	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	03/31/95	DR	
Trichloroethene	<2.5	µg/L	1.0	2.5	EPA 8260	03/31/95	DR	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	03/31/95	DR	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	03/31/95	DR	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	03/31/95	DR	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	03/31/95	DR	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	03/31/95	DR	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	03/31/95	DR	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	03/31/95	DR	
Tetrachloroethene	<2.	µg/L	1.0	2.0	EPA 8260	03/31/95	DR	
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	03/31/95	DR	
Toluene	<2.	µg/L	1.0	2.0	EPA 8260	03/31/95	DR	
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	03/31/95	DR	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	03/31/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values

04/12/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0457-3
Report Date: 04/12/95
PO No. : 802LSQA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPTB003	Aqueous	R. SHOCKLEY	03/23/95	03/24/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	03/31/95	DR	
Total Xylenes	<2.	µg/L	1.0	2.0	EPA 8260	03/31/95	DR	
Dibromofluoromethane (Surr.)	102.	%	1.0		EPA 8260	03/31/95	DR	
Toluene-d8 (Surr.)	101.	%	1.0		EPA 8260	03/31/95	DR	
p-Bromofluorobenzene (Surr.)	93.	%	1.0		EPA 8260	03/31/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values

04/12/95

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VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.:	EPMW106
Matrix (soil/water)	Water	Lab Sample ID:	EPTB003
Sample wt/vol:	5 (g/ml) ml	Lab File ID:	Y8087
Level: (low/med)	low	Date Received:	3/24/95
% Moisture: not dec.	N/A	Date Analyzed:	3/31/95
GC Column:	RTX-624 ID: 0.53	Dilution Factor:	1.0
Soil Extract Volume:	0 (ul)	Soil Aliquot Volume:	0 (ul)

Number of TIC's Found: 0

CONCENTRATION UNITS (ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0470-14
Report Date: 04/13/95
PO No. : 802LSQA
Project : 29600.47

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPTB004	Aqueous	▸	03/28/95	03/29/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Volatile Organics by EPA 8260								1,2
Chloromethane	<5.	µg/L	1.0	5.0	EPA 8260	04/02/95	DR	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	04/02/95	DR	
Vinyl chloride	<2.	µg/L	1.0	2.0	EPA 8260	04/02/95	DR	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/02/95	DR	
Methylene chloride	B4	µg/L	1.0	3.0	EPA 8260	04/02/95	DR	
Acetone	J2.	µg/L	1.0	5.0	EPA 8260	04/02/95	DR	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	04/02/95	DR	
1,1-Dichloroethene	<1.	µg/L	1.0	1.0	EPA 8260	04/02/95	DR	
1,1-Dichloroethane	2.	µg/L	1.0	2.0	EPA 8260	04/02/95	DR	
Total 1,2-Dichloroethene	8.	µg/L	1.0	2.0	EPA 8260	04/02/95	DR	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	04/02/95	DR	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/02/95	DR	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	04/02/95	DR	
1,1,1-Trichloroethane	11.	µg/L	1.0	2.0	EPA 8260	04/02/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) "J" flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.
(2) "B" flag denotes detection of this analyte in the laboratory method blank analyzed concurrently with the sample.

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0470-14
Report Date: 04/13/95
PO No. : 802LSOA
Project : 29600.47

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPTB004	Aqueous	▸	03/28/95	03/29/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	04/02/95	DR	
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	04/02/95	DR	
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	04/02/95	DR	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	04/02/95	DR	
Trichloroethene	J2.	µg/L	1.0	2.5	EPA 8260	04/02/95	DR	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	04/02/95	DR	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	04/02/95	DR	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	04/02/95	DR	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	04/02/95	DR	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	04/02/95	DR	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	04/02/95	DR	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	04/02/95	DR	
Tetrachloroethene	<2.	µg/L	1.0	2.0	EPA 8260	04/02/95	DR	
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	04/02/95	DR	
Toluene	<2.	µg/L	1.0	2.0	EPA 8260	04/02/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/13/95

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REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0470-14
Report Date: 04/13/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPTB004	Aqueous	▸	03/28/95	03/29/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	04/02/95	DR	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	04/02/95	DR	
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	04/02/95	DR	
Total Xylenes	<2.	µg/L	1.0	2.0	EPA 8260	04/02/95	DR	
Dibromofluoromethane (Surr.)	103.	%	1.0		EPA 8260	04/02/95	DR	
Toluene-d8 (Surr.)	105.	%	1.0		EPA 8260	04/02/95	DR	
p-Bromofluorobenzene (Surr.)	95.	%	1.0		EPA 8260	04/02/95	DR	

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04/13/95

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.:	EPMW202A
Matrix (soil/water)	Water	Lab Sample ID:	EPTB004
Sample wt/vol:	5 (g/ml) ml	Lab File ID:	Y82123
Level: (low/med)	low	Date Received:	3/29/95
% Moisture: not dec.	N/A	Date Analyzed:	4/2/95
GC Column:	RTX-624 ID: 0.53	Dilution Factor:	1.0
Soil Extract Volume:	0 (ul)	Soil Aliquot Volume:	0 (ul)

Number of TIC's Found: 0

CONCENTRATION UNITS
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0485-11
Report Date: 04/13/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPTB005	Aqueous	B. ANDERSEN	03/29/95	03/30/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Volatile Organics by EPA 8260								1,2
Chloromethane	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
Vinyl chloride	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
Methylene chloride	JB2	µg/L	1.0	3.0	EPA 8260	04/06/95	DR	
Acetone	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
1,1-Dichloroethene	<1.	µg/L	1.0	1.0	EPA 8260	04/06/95	DR	
1,1-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
Total 1,2-Dichloroethene	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
1,1,1-Trichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) "J" flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.
(2) "B" flag denotes detection of this analyte in the laboratory method blank analyzed concurrently with the sample.

04/13/95

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REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0485-11
Report Date: 04/13/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPTB005	Aqueous	B. ANDERSEN	03/29/95	03/30/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	04/06/95	DR	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
Trichloroethene	<2.5	µg/L	1.0	2.5	EPA 8260	04/06/95	DR	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	04/06/95	DR	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	04/06/95	DR	
Tetrachloroethene	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
Toluene	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/13/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0485-11
Report Date: 04/13/95
PO No. : 802LSOA
Project : 29600.47

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPTB005	Aqueous	B. ANDERSEN	03/29/95	03/30/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
Total Xylenes	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
Dibromofluoromethane (Surr.)	105.	%	1.0		EPA 8260	04/06/95	DR	
Toluene-d8 (Surr.)	101.	%	1.0		EPA 8260	04/06/95	DR	
p-Bromofluorobenzene (Surr.)	97.	%	1.0		EPA 8260	04/06/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/13/95

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VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.:	EPMW202A
Matrix (soil/water)	Water	Lab Sample ID:	EPTB005
Sample wt/vol:	5 (g/ml) ml	Lab File ID:	Y8223
Level: (low/med)	low	Date Received:	3/30/95
% Moisture: not dec.	N/A	Date Analyzed:	4/6/95
GC Column:	RTX-624 ID: 0.53	Dilution Factor:	1.0
Soil Extract Volume:	0 (ul)	Soil Aliquot Volume:	0 (ul)

Number of TIC's Found: 0

CONCENTRATION UNITS (ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0499-8
Report Date: 04/19/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPTB006	Aqueous	B.ANDERSEN	03/30/95	03/31/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Volatile Organics by EPA 8260								
Chloromethane	<5.	µg/L	1.0	5.0	EPA 8260	04/10/95	CB	1
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	04/10/95	CB	
Vinyl chloride	<2.	µg/L	1.0	2.0	EPA 8260	04/10/95	CB	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/10/95	CB	
Methylene chloride	B3	µg/L	1.0	3.0	EPA 8260	04/10/95	CB	
Acetone	<5.	µg/L	1.0	5.0	EPA 8260	04/10/95	CB	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	04/10/95	CB	
1,1-Dichloroethene	<1.	µg/L	1.0	1.0	EPA 8260	04/10/95	CB	
1,1-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/10/95	CB	
Total 1,2-Dichloroethene	<2.	µg/L	1.0	2.0	EPA 8260	04/10/95	CB	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	04/10/95	CB	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/10/95	CB	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	04/10/95	CB	
1,1,1-Trichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/10/95	CB	
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	04/10/95	CB	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) "B" flag denotes detection of this analyte in the laboratory method blank analyzed concurrently with the sample.

04/19/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0499-8
Report Date: 04/19/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPTB006	Aqueous	B.ANDERSEN	03/30/95	03/31/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	04/10/95	CB	
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	04/10/95	CB	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	04/10/95	CB	
Trichloroethene	<2.5	µg/L	1.0	2.5	EPA 8260	04/10/95	CB	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	04/10/95	CB	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	04/10/95	CB	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	04/10/95	CB	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	04/10/95	CB	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	04/10/95	CB	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	04/10/95	CB	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	04/10/95	CB	
Tetrachloroethene	<2.	µg/L	1.0	2.0	EPA 8260	04/10/95	CB	
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	04/10/95	CB	
Toluene	<2.	µg/L	1.0	2.0	EPA 8260	04/10/95	CB	
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	04/10/95	CB	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	04/10/95	CB	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/19/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0499-8
Report Date: 04/19/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPTB006	Aqueous	B.ANDERSEN	03/30/95	03/31/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	04/10/95	CB	
Total Xylenes	<2.	µg/L	1.0	2.0	EPA 8260	04/10/95	CB	
Dibromofluoromethane (Surr.)	106.	%	1.0		EPA 8260	04/10/95	CB	
Toluene-d8 (Surr.)	97.	%	1.0		EPA 8260	04/10/95	CB	
p-Bromofluorobenzene (Surr.)	98.	%	1.0		EPA 8260	04/10/95	CB	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/19/95

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.:	EPMW207B
Matrix (soil/water)	Water	Lab Sample ID:	EPTB006
Sample wt/vol:	5 (g/ml) ml	Lab File ID:	Y8316
Level: (low/med)	low	Date Received:	3/31/95
% Moisture: not dec.	N/A	Date Analyzed:	4/10/95
GC Column:	RTX-624 ID: 0.53	Dilution Factor:	1.0
Soil Extract Volume:	0 (ul)	Soil Aliquot Volume:	0 (ul)

Number of TIC's Found: 0

CONCENTRATION UNITS (ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0485-10
Report Date: 04/13/95
PO No. : 802LSOA
Project : 29600.47

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPEQ001	Aqueous	B. ANDERSEN	03/29/95	03/30/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Volatile Organics by EPA 8260								1
Chloromethane	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
Vinyl chloride	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
Methylene chloride	B3	µg/L	1.0	3.0	EPA 8260	04/06/95	DR	
Acetone	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
1,1-Dichloroethene	<1.	µg/L	1.0	1.0	EPA 8260	04/06/95	DR	
1,1-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
Total 1,2-Dichloroethene	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
1,1,1-Trichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) "B" flag denotes detection of this analyte in the laboratory method blank analyzed concurrently with the sample.

04/13/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0485-10
Report Date: 04/13/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPEQ001	Aqueous	B. ANDERSEN	03/29/95	03/30/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	04/06/95	DR	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
Trichloroethene	<2.5	µg/L	1.0	2.5	EPA 8260	04/06/95	DR	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	04/06/95	DR	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	04/06/95	DR	
Tetrachloroethene	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
Toluene	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	04/06/95	DR	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/13/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0485-10
Report Date: 04/13/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPEQ001	Aqueous	B. ANDERSEN	03/29/95	03/30/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
Total Xylenes	<2.	µg/L	1.0	2.0	EPA 8260	04/06/95	DR	
Dibromofluoromethane (Surr.)	106.	%	1.0		EPA 8260	04/06/95	DR	
Toluene-d8 (Surr.)	101.	%	1.0		EPA 8260	04/06/95	DR	
p-Bromofluorobenzene (Surr.)	92.	%	1.0		EPA 8260	04/06/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/13/95

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.:	EPMW202A
Matrix (soil/water)	Water	Lab Sample ID:	EPEQ001
Sample wt/vol:	5 (g/ml) ml	Lab File ID:	Y8222
Level: (low/med)	low	Date Received:	3/30/95
% Moisture: not dec.	N/A	Date Analyzed:	4/6/95
GC Column:	RTX-624 ID: 0.53	Dilution Factor:	1.0
Soil Extract Volume:	0 (ul)	Soil Aliquot Volume:	0 (ul)

Number of TIC's Found: 0

CONCENTRATION UNITS
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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Appendix E.3

Surface Water Samples
Sites 1 and 3

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0422-1
Report Date: 04/07/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPSW006	Aqueous	B. ANDERSEN	03/19/95	03/20/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Volatile Organics by EPA 8260								1
Chloromethane	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Vinyl chloride	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Methylene chloride	B4	µg/L	1.0	3.0	EPA 8260	03/29/95	DR	
Acetone	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
1,1-Dichloroethene	<1.	µg/L	1.0	1.0	EPA 8260	03/29/95	DR	
1,1-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Total 1,2-Dichloroethene	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
1,1,1-Trichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) "B" flag denotes detection of this analyte in the laboratory method blank analyzed concurrently with the sample.

04/07/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0422-1
Report Date: 04/07/95
PO No. : 802LSQA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPSW006	Aqueous	B. ANDERSEN	03/19/95	03/20/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	03/29/95	DR	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Trichloroethene	<2.5	µg/L	1.0	2.5	EPA 8260	03/29/95	DR	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	03/29/95	DR	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	03/29/95	DR	
Tetrachloroethene	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Toluene	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/07/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0422-1
Report Date: 04/07/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPSW006	Aqueous	B. ANDERSEN	03/19/95	03/20/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Total Xylenes	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Dibromofluoromethane (Surr.)	106.	%	1.0		EPA 8260	03/29/95	DR	
Toluene-d8 (Surr.)	99.	%	1.0		EPA 8260	03/29/95	DR	
p-Bromofluorobenzene (Surr.)	97.	%	1.0		EPA 8260	03/29/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/07/95

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VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.:	EPFB001
Matrix (soil/water)	Water	Lab Sample ID:	EPSW006
Sample wt/vol:	5 (g/ml) ml	Lab File ID:	Y7993
Level: (low/med)	low	Date Received:	3/20/95
% Moisture: not dec.	N/A	Date Analyzed:	3/29/95
GC Column:	RTX-624 ID: 0.53	Dilution Factor:	1.0
Soil Extract Volume:	0 (ul)	Soil Aliquot Volume:	0 (ul)

Number of TIC's Found: 0

CONCENTRATION UNITS (ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0422-2
Report Date: 04/07/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPSW007	Aqueous	B. ANDERSEN	03/19/95	03/20/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Volatile Organics by EPA 8260								1,2
Chloromethane	<5.	µg/L	1.0	5.0	EPA 8260	03/28/95	DR	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	03/28/95	DR	
Vinyl chloride	<2.	µg/L	1.0	2.0	EPA 8260	03/28/95	DR	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	03/28/95	DR	
Methylene chloride	JB2	µg/L	1.0	3.0	EPA 8260	03/28/95	DR	
Acetone	64.	µg/L	1.0	5.0	EPA 8260	03/28/95	DR	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	03/28/95	DR	
1,1-Dichloroethene	<1.	µg/L	1.0	1.0	EPA 8260	03/28/95	DR	
1,1-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	03/28/95	DR	
Total 1,2-Dichloroethene	<2.	µg/L	1.0	2.0	EPA 8260	03/28/95	DR	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	03/28/95	DR	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	03/28/95	DR	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	03/28/95	DR	
1,1,1-Trichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	03/28/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) "J" flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.
(2) "B" flag denotes detection of this analyte in the laboratory method blank analyzed concurrently with the sample.

04/07/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0422-2
Report Date: 04/07/95
PO No. : 802LSOA
Project : 29600.47

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPSW007	Aqueous	B. ANDERSEN	03/19/95	03/20/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	03/28/95	DR	
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	03/28/95	DR	
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	03/28/95	DR	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	03/28/95	DR	
Trichloroethene	<2.5	µg/L	1.0	2.5	EPA 8260	03/28/95	DR	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	03/28/95	DR	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	03/28/95	DR	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	03/28/95	DR	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	03/28/95	DR	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	03/28/95	DR	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	03/28/95	DR	
2-Hexanone	J3.	µg/L	1.0	4.0	EPA 8260	03/28/95	DR	
Tetrachloroethene	<2.	µg/L	1.0	2.0	EPA 8260	03/28/95	DR	
1,1,2,2-Tetrachloroethane	J2.	µg/L	1.0	5.0	EPA 8260	03/28/95	DR	
Toluene	<2.	µg/L	1.0	2.0	EPA 8260	03/28/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/07/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0422-2
Report Date: 04/07/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPSW007	Aqueous	B. ANDERSEN	03/19/95	03/20/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	03/28/95	DR	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	03/28/95	DR	
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	03/28/95	DR	
Total Xylenes	<2.	µg/L	1.0	2.0	EPA 8260	03/28/95	DR	
Dibromofluoromethane (Surr.)	109.	%	1.0		EPA 8260	03/28/95	DR	
Toluene-d8 (Surr.)	101.	%	1.0		EPA 8260	03/28/95	DR	
p-Bromofluorobenzene (Surr.)	100.	%	1.0		EPA 8260	03/28/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.:	EPFB001
Matrix (soil/water)	Water	Lab Sample ID:	EPSW007
Sample wt/vol:	5 (g/ml) ml	Lab File ID:	Y7974
Level: (low/med)	low	Date Received:	3/20/95
% Moisture: not dec.	N/A	Date Analyzed:	3/28/95
GC Column:	RTX-624 ID: 0.53	Dilution Factor:	1.0
Soil Extract Volume:	0 (ul)	Soil Aliquot Volume:	0 (ul)

Number of TIC's Found: 1

CONCENTRATION UNITS
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 67630	2-Propanol	5.82	6	JN
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0422-3
Report Date: 04/07/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPSWDUP	Aqueous	B. ANDERSEN	03/19/95	03/20/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Volatile Organics by EPA 8260								1
Chloromethane	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Vinyl chloride	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Methylene chloride	B3	µg/L	1.0	3.0	EPA 8260	03/29/95	DR	
Acetone	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
1,1-Dichloroethene	<1.	µg/L	1.0	1.0	EPA 8260	03/29/95	DR	
1,1-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Total 1,2-Dichloroethene	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
1,1,1-Trichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) "B" flag denotes detection of this analyte in the laboratory method blank analyzed concurrently with the sample.

04/07/95

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ENVIRONMENTAL LABORATORIES.

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0422-3
Report Date: 04/07/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPSWDUP	Aqueous	B. ANDERSEN	03/19/95	03/20/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	03/29/95	DR	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Trichloroethene	<2.5	µg/L	1.0	2.5	EPA 8260	03/29/95	DR	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	03/29/95	DR	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	03/29/95	DR	
Tetrachloroethene	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Toluene	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/07/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0422-3
Report Date: 04/07/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPSWDUP	Aqueous	B. ANDERSEN	03/19/95	03/20/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Total Xylenes	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Dibromofluoromethane (Surr.)	102.	%	1.0		EPA 8260	03/29/95	DR	
Toluene-d8 (Surr.)	101.	%	1.0		EPA 8260	03/29/95	DR	
p-Bromofluorobenzene (Surr.)	106.	%	1.0		EPA 8260	03/29/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/07/95

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VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.:	EPFB001
Matrix (soil/water)	Water	Lab Sample ID:	EPSWDUP
Sample wt/vol:	5 (g/ml) ml	Lab File ID:	Y8023
Level: (low/med)	low	Date Received:	3/20/95
% Moisture: not dec.	N/A	Date Analyzed:	3/29/95
GC Column:	RTX-624 ID: 0.53	Dilution Factor:	1.0
Soil Extract Volume:	0 (ul)	Soil Aliquot Volume:	0 (ul)

Number of TIC's Found: 0

CONCENTRATION UNITS (ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0422-15
Report Date: 04/07/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED	DATE RECEIVED
EPFB001	Aqueous	B. ANDERSEN	03/20/95	03/20/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Volatile Organics by EPA 8260								1
Chloromethane	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Vinyl chloride	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Methylene chloride	B6	µg/L	1.0	3.0	EPA 8260	03/29/95	DR	
Acetone	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
1,1-Dichloroethene	<1.	µg/L	1.0	1.0	EPA 8260	03/29/95	DR	
1,1-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Total 1,2-Dichloroethene	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
1,1,1-Trichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) "B" flag denotes detection of this analyte in the laboratory method blank analyzed concurrently with the sample.

04/07/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0422-15
Report Date: 04/07/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPFB001	Aqueous	B. ANDERSEN	03/20/95	03/20/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	03/29/95	DR	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Trichloroethene	<2.5	µg/L	1.0	2.5	EPA 8260	03/29/95	DR	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	03/29/95	DR	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	03/29/95	DR	
Tetrachloroethene	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Toluene	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/07/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0422-15
Report Date: 04/07/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED	DATE RECEIVED
EPFB001	Aqueous	B. ANDERSEN	03/20/95	03/20/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Total Xylenes	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Dibromofluoromethane (Surr.)	115.	%	1.0		EPA 8260	03/29/95	DR	
Toluene-d8 (Surr.)	101.	%	1.0		EPA 8260	03/29/95	DR	
p-Bromofluorobenzene (Surr.)	95.	%	1.0		EPA 8260	03/29/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/07/95

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VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.:	EPFB001
Matrix (soil/water)	Water	Lab Sample ID:	EPFB001
Sample wt/vol:	5 (g/ml) ml	Lab File ID:	Y7991
Level: (low/med)	low	Date Received:	3/20/95
% Moisture: not dec.	N/A	Date Analyzed:	3/29/95
GC Column:	RTX-624 ID: 0.53	Dilution Factor:	1.0
Soil Extract Volume:	0 (ul)	Soil Aliquot Volume:	0 (ul)

Number of TIC's Found: 0

CONCENTRATION UNITS (ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
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pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0422-16
Report Date: 04/07/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPTB001	Aqueous	B. ANDERSEN	03/19/95	03/20/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Volatile Organics by EPA 8260								1
Chloromethane	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Vinyl chloride	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Methylene chloride	B4	µg/L	1.0	3.0	EPA 8260	03/29/95	DR	
Acetone	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
1,1-Dichloroethene	<1.	µg/L	1.0	1.0	EPA 8260	03/29/95	DR	
1,1-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Total 1,2-Dichloroethene	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
1,1,1-Trichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) "B" flag denotes detection of this analyte in the laboratory method blank analyzed concurrently with the sample.

04/07/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0422-16
Report Date: 04/07/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED	DATE RECEIVED
EPTB001	Aqueous	B. ANDERSEN	03/19/95	03/20/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
1,2-Dichloropropane	<2:5	µg/L	1.0	2.5	EPA 8260	03/29/95	DR	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Trichloroethene	<2.5	µg/L	1.0	2.5	EPA 8260	03/29/95	DR	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	03/29/95	DR	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	03/29/95	DR	
Tetrachloroethene	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Toluene	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0422-16
Report Date: 04/07/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPTBC01	Aqueous	B. ANDERSEN	03/19/95	03/20/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Total Xylenes	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Dibromofluoromethane (Surr.)	104.	%	1.0		EPA 8260	03/29/95	DR	
Toluene-d8 (Surr.)	98.	%	1.0		EPA 8260	03/29/95	DR	
p-Bromofluorobenzene (Surr.)	95.	%	1.0		EPA 8260	03/29/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

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Respectfully submitted,
PACE, INC.
Laura J. O'Meara
Laura J. O'Meara
Supervisor, Client Services

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VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.:	EPFB001
Matrix (soil/water)	Water	Lab Sample ID:	EPTB001
Sample wt/vol:	5 (g/ml) ml	Lab File ID:	Y7992
Level: (low/med)	low	Date Received:	3/20/95
% Moisture: not dec.	N/A	Date Analyzed:	3/29/95
GC Column:	RTX-624 ID: 0.53	Dilution Factor:	1.0
Soil Extract Volume:	0 (ul)	Soil Aliquot Volume:	0 (ul)

Number of TIC's Found: 0

CONCENTRATION UNITS (ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0422-8
Report Date: 04/07/95
PO No. : 802LSQA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPSWC01	Aqueous	B. ANDERSEN	03/20/95	03/20/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Volatile Organics by EPA 8260								1
Chloromethane	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Vinyl chloride	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Methylene chloride	B5	µg/L	1.0	3.0	EPA 8260	03/29/95	DR	
Acetone	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
1,1-Dichloroethene	<1.	µg/L	1.0	1.0	EPA 8260	03/29/95	DR	
1,1-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Total 1,2-Dichloroethene	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
1,1,1-Trichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) "B" flag denotes detection of this analyte in the laboratory method blank analyzed concurrently with the sample.

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0422-8
Report Date: 04/07/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED	DATE RECEIVED
EPSW001	Aqueous	B. ANDERSEN	03/20/95	03/20/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	03/29/95	DR	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Trichloroethene	<2.5	µg/L	1.0	2.5	EPA 8260	03/29/95	DR	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	03/29/95	DR	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	03/29/95	DR	
Tetrachloroethene	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Toluene	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0422-8
Report Date: 04/07/95
PO No. : 802LSQA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPSW001	Aqueous	B. ANDERSEN	03/20/95	03/20/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Total Xylenes	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Dibromofluoromethane (Surr.)	108.	%	1.0		EPA 8260	03/29/95	DR	
Toluene-d8 (Surr.)	100.	%	1.0		EPA 8260	03/29/95	DR	
p-Bromofluorobenzene (Surr.)	97.	%	1.0		EPA 8260	03/29/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/07/95

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VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.:	EPFB001
Matrix (soil/water)	Water	Lab Sample ID:	EPSW001
Sample wt/vol:	5 (g/ml) ml	Lab File ID:	Y7996
Level: (low/med)	low	Date Received:	3/20/95
% Moisture: not dec.	N/A	Date Analyzed:	3/29/95
GC Column:	RTX-624 ID: 0.53	Dilution Factor:	1.0
Soil Extract Volume:	0 (ul)	Soil Aliquot Volume:	0 (ul)

Number of TIC's Found: 0

CONCENTRATION UNITS (ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0422-7
Report Date: 04/07/95
PO No. : 802LSOA
Project : 29600.47

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPSWC02	Aqueous	B. ANDERSEN	03/20/95	03/20/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Volatile Organics by EPA 8260								1
Chloromethane	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Vinyl chloride	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Methylene chloride	B4	µg/L	1.0	3.0	EPA 8260	03/29/95	DR	
Acetone	B15	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
1,1-Dichloroethene	<1.	µg/L	1.0	1.0	EPA 8260	03/29/95	DR	
1,1-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Total 1,2-Dichloroethene	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
1,1,1-Trichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) "B" flag denotes detection of this analyte in the laboratory method blank analyzed concurrently with the sample.

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0422-7
Report Date: 04/07/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPSW002	Aqueous	B. ANDERSEN	03/20/95	03/20/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	03/29/95	DR	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Trichloroethene	<2.5	µg/L	1.0	2.5	EPA 8260	03/29/95	DR	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	03/29/95	DR	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	03/29/95	DR	
Tetrachloroethene	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Toluene	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0422-7
Report Date: 04/07/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED	DATE RECEIVED
EPSW002	Aqueous	B. ANDERSEN	03/20/95	03/20/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Total Xylenes	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Dibromofluoromethane (Surr.)	106.	%	1.0		EPA 8260	03/29/95	DR	
Toluene-d8 (Surr.)	99.	%	1.0		EPA 8260	03/29/95	DR	
p-Bromofluorobenzene (Surr.)	103.	%	1.0		EPA 8260	03/29/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

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VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.:	EPFB001
Matrix (soil/water)	Water	Lab Sample ID:	EPSW002
Sample wt/vol:	5 (g/ml) ml	Lab File ID:	Y7995
Level: (low/med)	low	Date Received:	3/20/95
% Moisture: not dec.	N/A	Date Analyzed:	3/29/95
GC Column:	RTX-624 ID: 0.53	Dilution Factor:	1.0
Soil Extract Volume:	0 (ul)	Soil Aliquot Volume:	0 (ul)

Number of TIC's Found: 0

CONCENTRATION UNITS (ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0422-4
Report Date: 04/07/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPSW003	Aqueous	B. ANDERSEN	03/20/95	03/20/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Volatile Organics by EPA 8260								1
Chloromethane	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Vinyl chloride	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Methylene chloride	<3.	µg/L	1.0	3.0	EPA 8260	03/29/95	DR	
Acetone	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
1,1-Dichloroethene	<1.	µg/L	1.0	1.0	EPA 8260	03/29/95	DR	
1,1-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Total 1,2-Dichloroethene	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
1,1,1-Trichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) "J" flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.

04/07/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0422-4
Report Date: 04/07/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPSW003	Aqueous	B. ANDERSEN	03/20/95	03/20/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	03/29/95	DR	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Trichloroethene	<2.5	µg/L	1.0	2.5	EPA 8260	03/29/95	DR	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	03/29/95	DR	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	03/29/95	DR	
Tetrachloroethene	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
1,1,2,2-Tetrachloroethane	J2.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Toluene	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/07/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0422-4
Report Date: 04/07/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPSW003	Aqueous	B. ANDERSEN	03/20/95	03/20/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Total Xylenes	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Dibromofluoromethane (Surr.)	101.	%	1.0		EPA 8260	03/29/95	DR	
Toluene-d8 (Surr.)	101.	%	1.0		EPA 8260	03/29/95	DR	
p-Bromofluorobenzene (Surr.)	106.	%	1.0		EPA 8260	03/29/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/07/95

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.:	EPFB001
Matrix (soil/water)	Water	Lab Sample ID:	EPSW003
Sample wt/vol:	5 (g/ml) ml	Lab File ID:	Y8007
Level: (low/med)	low	Date Received:	3/20/95
% Moisture: not dec.	N/A	Date Analyzed:	3/29/95
GC Column:	RTX-624 ID: 0.53	Dilution Factor:	1.0
Soil Extract Volume:	0 (ul)	Soil Aliquot Volume:	0 (ul)

Number of TIC's Found: 0

CONCENTRATION UNITS (ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0422-13
Report Date: 04/07/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPSW004	Aqueous	B. ANDERSEN	03/19/95	03/20/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Volatile Organics by EPA 8260								1,2
Chloromethane	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Vinyl chloride	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Methylene chloride	JB2	µg/L	1.0	3.0	EPA 8260	03/29/95	DR	
Acetone	JB2	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
1,1-Dichloroethene	<1.	µg/L	1.0	1.0	EPA 8260	03/29/95	DR	
1,1-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Total 1,2-Dichloroethene	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
1,1,1-Trichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) "J" flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.
(2) "B" flag denotes detection of this analyte in the laboratory method blank analyzed concurrently with the sample.

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0422-13
Report Date: 04/07/95
PO No. : 802LSOA
Project : 29600.47

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPSW004	Aqueous	B. ANDERSEN	03/19/95	03/20/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	03/29/95	DR	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Trichloroethene	<2.5	µg/L	1.0	2.5	EPA 8260	03/29/95	DR	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	03/29/95	DR	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	03/29/95	DR	
Tetrachloroethene	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
1,1,2,2-Tetrachloroethane	J1.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Toluene	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/07/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0422-13
Report Date: 04/07/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPSW004	Aqueous	B. ANDERSEN	03/19/95	03/20/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Total Xylenes	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Dibromofluoromethane (Surr.)	110.	%	1.0		EPA 8260	03/29/95	DR	
Toluene-d8 (Surr.)	102.	%	1.0		EPA 8260	03/29/95	DR	
p-Bromofluorobenzene (Surr.)	94.	%	1.0		EPA 8260	03/29/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/07/95

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1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.:	EPFB001
Matrix (soil/water)	Water	Lab Sample ID:	EPSW004
Sample wt/vol:	5 (g/ml) ml	Lab File ID:	Y7989
Level: (low/med)	low	Date Received:	3/20/95
% Moisture: not dec.	N/A	Date Analyzed:	3/29/95
GC Column:	RTX-624 ID: 0.53	Dilution Factor:	1.0
Soil Extract Volume:	0 (ul)	Soil Aliquot Volume:	0 (ul)

Number of TIC's Found: 0

CONCENTRATION UNITS
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0422-10
Report Date: 04/07/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPSW005	Aqueous	B. ANDERSEN	03/19/95	03/20/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Volatile Organics by EPA 8260								1
Chloromethane	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Vinyl chloride	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Methylene chloride	B5	µg/L	1.0	3.0	EPA 8260	03/29/95	DR	
Acetone	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
1,1-Dichloroethene	<1.	µg/L	1.0	1.0	EPA 8260	03/29/95	DR	
1,1-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Total 1,2-Dichloroethene	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
1,1,1-Trichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) "B" flag denotes detection of this analyte in the laboratory method blank analyzed concurrently with the sample.

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0422-10
Report Date: 04/07/95
PO No. : 802LSOA
Project : 29600.47

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPSW005	Aqueous	B. ANDERSEN	03/19/95	03/20/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	03/29/95	DR	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Trichloroethene	<2.5	µg/L	1.0	2.5	EPA 8260	03/29/95	DR	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	03/29/95	DR	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	03/29/95	DR	
Tetrachloroethene	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Toluene	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/07/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0422-10
Report Date: 04/07/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED	DATE RECEIVED
EPSW005	Aqueous	B. ANDERSEN	03/19/95	03/20/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Total Xylenes	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Dibromofluoromethane (Surr.)	107.	%	1.0		EPA 8260	03/29/95	DR	
Toluene-d8 (Surr.)	101.	%	1.0		EPA 8260	03/29/95	DR	
p-Bromofluorobenzene (Surr.)	100.	%	1.0		EPA 8260	03/29/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

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VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.:	EPFB001
Matrix (soil/water)	Water	Lab Sample ID:	EPSW005
Sample wt/vol:	5 (g/ml) ml	Lab File ID:	Y7998
Level: (low/med)	low	Date Received:	3/20/95
% Moisture: not dec.	N/A	Date Analyzed:	3/29/95
GC Column:	RTX-624 ID: 0.53	Dilution Factor:	1.0
Soil Extract Volume:	0 (ul)	Soil Aliquot Volume:	0 (ul)

Number of TIC's Found: 0

CONCENTRATION UNITS (ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
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190000

U.S. EPA - CLP

EPA SAMPLE NO.

1

INORGANIC ANALYSIS DATA SHEET

PSW001

Lab Name: PACE Inc., NE-NH Contract:

Lab Code: Case No.: BRUNS SAS No.: SDG No.: EPFB00

Matrix (soil/water): WATER Lab Sample ID: 43306-023

Level (low/med): LOW Date Received: 03/22/95

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	63.5	B		P
7440-36-0	Antimony	11.9	U		P
7440-38-2	Arsenic	1.6	U	W	F
7440-39-3	Barium	17.6	B		P
7440-41-7	Beryllium	0.20	U		P
7440-43-9	Cadmium	1.4	U		P
7440-70-2	Calcium	10300			P
7440-47-3	Chromium	2.0	U		P
7440-48-4	Cobalt	2.4	U		P
7440-50-8	Copper	5.6	U		P
7439-89-6	Iron	2310			P
7439-92-1	Lead	1.3	U	W	F
7439-95-4	Magnesium	1020	B		P
7439-96-5	Manganese	201			P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	5.5	U		P
7440-09-7	Potassium	1830	B		P
7782-49-2	Selenium	1.3	U	W	F
7440-22-4	Silver	1.9	U		P
7440-23-5	Sodium	11300			P
7440-28-0	Thallium	2.0	U		F
7440-62-2	Vanadium	2.5	U		P
7440-66-6	Zinc	160			P
	Cyanide	0.75	U		AS

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

PSW002

Lab Name: PACE Inc., NE-NH Contract:

Lab Code: Case No.: BRUNS SAS No.: SDG No.: EPFB00

Matrix (soil/water): WATER Lab Sample ID: 43306-022

Level (low/med): LOW Date Received: 03/22/95

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	15.4	U		P
7440-36-0	Antimony	11.9	U		P
7440-38-2	Arsenic	1.6	U	W	F
7440-39-3	Barium	14.5	B		P
7440-41-7	Beryllium	0.20	U		P
7440-43-9	Cadmium	1.4	U		P
7440-70-2	Calcium	12500			P
7440-47-3	Chromium	2.0	U		P
7440-48-4	Cobalt	2.4	U		P
7440-50-8	Copper	5.6	U		P
7439-89-6	Iron	3750			P
7439-92-1	Lead	1.3	U	W	F
7439-95-4	Magnesium	1970	B		P
7439-96-5	Manganese	394			P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	5.5	U		P
7440-09-7	Potassium	1960	B		P
7782-49-2	Selenium	1.3	U	W	F
7440-22-4	Silver	1.9	U		P
7440-23-5	Sodium	14300			P
7440-28-0	Thallium	2.0	U		F
7440-62-2	Vanadium	2.5	U		P
7440-66-6	Zinc	35.0			P
	Cyanide	0.75	U		AS

olor Before: Clarity Before: Texture:

olor After: Clarity After: Artifacts:

omments:

U.S. EPA - CLP

EPA SAMPLE NO.

1

INORGANIC ANALYSIS DATA SHEET

PSW003

Lab Name: PACE Inc., NE-NH Contract:

Lab Code: Case No.: BRUNS SAS No.: SDG No.: EPFB00

Matrix (soil/water): WATER Lab Sample ID: 43306-019

Level (low/med): LOW Date Received: 03/22/95

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	15.4	U		P
7440-36-0	Antimony	11.9	U		P
7440-38-2	Arsenic	1.6	U	W	F
7440-39-3	Barium	13.0	B		P
7440-41-7	Beryllium	0.20	U		P
7440-43-9	Cadmium	1.4	U		P
7440-70-2	Calcium	11200			P
7440-47-3	Chromium	2.0	U		P
7440-48-4	Cobalt	2.9	B		P
7440-50-8	Copper	5.6	U		P
7439-89-6	Iron	1870			P
7439-92-1	Lead	1.3	U	W	F
7439-95-4	Magnesium	1880	B		P
7439-96-5	Manganese	411			P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	5.5	U		P
7440-09-7	Potassium	2420	B		P
7782-49-2	Selenium	1.3	U	W	F
7440-22-4	Silver	2.4	B		P
7440-23-5	Sodium	12500			P
7440-28-0	Thallium	2.0	U		F
7440-62-2	Vanadium	2.7	B		P
7440-66-6	Zinc	12.3	B		P
	Cyanide	0.75	U		AS

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

U.S. EPA - CLP

EPA SAMPLE NO.

1

INORGANIC ANALYSIS DATA SHEET

PSW004

Lab Name: PACE Inc., NE-NH Contract:

Lab Code: Case No.: BRUNS SAS No.: SDG No.: EPFB00

Matrix (soil/water): WATER Lab Sample ID: 43306-013

Level (low/med): LOW Date Received: 03/22/95

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	353			P
7440-36-0	Antimony	11.9	U		P
7440-38-2	Arsenic	1.6	U	W	F
7440-39-3	Barium	17.3	B		P
7440-41-7	Beryllium	0.20	U		P
7440-43-9	Cadmium	1.4	U		P
7440-70-2	Calcium	6150			P
7440-47-3	Chromium	2.4	B		P
7440-48-4	Cobalt	2.5	B		P
7440-50-8	Copper	5.6	U		P
7439-89-6	Iron	771			P
7439-92-1	Lead	1.3	U	W	F
7439-95-4	Magnesium	1490	B		P
7439-96-5	Manganese	153			P
7439-97-6	Mercury	0.14	B		CV
7440-02-0	Nickel	5.5	U		P
7440-09-7	Potassium	1660	B		P
7782-49-2	Selenium	1.3	U	W	F
7440-22-4	Silver	1.9	U		P
7440-23-5	Sodium	10400			P
7440-28-0	Thallium	2.0	U		F
7440-62-2	Vanadium	2.5	U		P
7440-66-6	Zinc	18.5	B		P
	Cyanide	0.75	U		AS

olor Before: Clarity Before: Texture:

olor After: Clarity After: Artifacts:

omments:

U.S. EPA - CLP

EPA SAMPLE NO.

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INORGANIC ANALYSIS DATA SHEET

PSW005

Lab Name: PACE Inc., NE-NH Contract:

Lab Code: Case No.: BRUNS SAS No.: SDG No.: EPFB00

Matrix (soil/water): WATER Lab Sample ID: 43306-025

Level (low/med): LOW Date Received: 03/22/95

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	320			P
7440-36-0	Antimony	11.9	U		P
7440-38-2	Arsenic	1.6	U	W	F
7440-39-3	Barium	15.1	B		P
7440-41-7	Beryllium	0.20	U		P
7440-43-9	Cadmium	1.4	U		P
7440-70-2	Calcium	6120			P
7440-47-3	Chromium	2.0	U		P
7440-48-4	Cobalt	2.4	U		P
7440-50-8	Copper	5.6	U		P
7439-89-6	Iron	758			P
7439-92-1	Lead	2.0	B	W	F
7439-95-4	Magnesium	1590	B		P
7439-96-5	Manganese	154			P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	5.5	U		P
7440-09-7	Potassium	1640	B		P
7782-49-2	Selenium	1.3	U	W	F
7440-22-4	Silver	1.9	U		P
7440-23-5	Sodium	10100			P
7440-28-0	Thallium	2.0	U		F
7440-62-2	Vanadium	2.5	U		P
7440-66-6	Zinc	12.4	B		P
	Cyanide	0.75	U		AS

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

600013

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

PSW006

Lab Name: PACE Inc., NE-NH Contract:

Lab Code: Case No.: BRUNS SAS No.: SDG No.: EPFB00

Matrix (soil/water): WATER Lab Sample ID: 43306-016

Level (low/med): LOW Date Received: 03/22/95

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	401			P
7440-36-0	Antimony	11.9	U		P
7440-38-2	Arsenic	1.6	U	W	F
7440-39-3	Barium	16.8	B		P
7440-41-7	Beryllium	0.20	U		P
7440-43-9	Cadmium	1.4	U		P
7440-70-2	Calcium	6510			P
7440-47-3	Chromium	2.0	U		P
7440-48-4	Cobalt	2.4	U		P
7440-50-8	Copper	5.6	U		P
7439-89-6	Iron	701			P
7439-92-1	Lead	1.3	U	W	F
7439-95-4	Magnesium	1590	B		P
7439-96-5	Manganese	160			P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	5.5	U		P
7440-09-7	Potassium	1490	B		P
7782-49-2	Selenium	1.6	B	W	F
7440-22-4	Silver	1.9	U		P
7440-23-5	Sodium	11000			P
7440-28-0	Thallium	2.0	U		F
7440-62-2	Vanadium	3.2	B		P
7440-66-6	Zinc	13.6	B		P
	Cyanide	0.75	U		AS

lor Before: Clarity Before: Texture:

lor After: Clarity After: Artifacts:

mments:

U.S. EPA - CLP

EPA SAMPLE NO.

1

INORGANIC ANALYSIS DATA SHEET

PSW007

Lab Name: PACE Inc., NE-NH Contract:

Lab Code: Case No.: BRUNS SAS No.: SDG No.: EPFB00

Matrix (soil/water): WATER Lab Sample ID: 43306-017

Level (low/med): LOW Date Received: 03/22/95

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	218			P
7440-36-0	Antimony	11.9	U		P
7440-38-2	Arsenic	1.6	U	W	F
7440-39-3	Barium	16.3	B		P
7440-41-7	Beryllium	0.20	U		P
7440-43-9	Cadmium	1.4	U		P
7440-70-2	Calcium	6750			P
7440-47-3	Chromium	2.0	U		P
7440-48-4	Cobalt	2.9	B		P
7440-50-8	Copper	13.5	B		P
7439-89-6	Iron	707			P
7439-92-1	Lead	1.3	U	W	F
7439-95-4	Magnesium	1600	B		P
7439-96-5	Manganese	181			P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	5.5	U		P
7440-09-7	Potassium	1690	B		P
7782-49-2	Selenium	1.3	U	W	F
7440-22-4	Silver	1.9	U		P
7440-23-5	Sodium	10900			P
7440-28-0	Thallium	2.0	U		F
7440-62-2	Vanadium	3.2	B		P
7440-66-6	Zinc	12.6	B		P
	Cyanide	2.7	B		AS

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

U.S. EPA - CLP

EPA SAMPLE NO.

1

INORGANIC ANALYSIS DATA SHEET

PSWDUP

Lab Name: PACE Inc., NE-NH Contract:

Lab Code: Case No.: BRUNS SAS No.: SDG No.: EPFB00

Matrix (soil/water): WATER Lab Sample ID: 43306-018

Level (low/med): LOW Date Received: 03/22/95

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	184	B		P
7440-36-0	Antimony	11.9	U		P
7440-38-2	Arsenic	1.6	U	W	F
7440-39-3	Barium	15.1	B		P
7440-41-7	Beryllium	0.20	U		P
7440-43-9	Cadmium	1.4	U		P
7440-70-2	Calcium	5940			P
7440-47-3	Chromium	2.0	B		P
7440-48-4	Cobalt	2.4	U		P
7440-50-8	Copper	5.6	U		P
7439-89-6	Iron	652			P
7439-92-1	Lead	1.3	U	W	F
7439-95-4	Magnesium	1420	B		P
7439-96-5	Manganese	161			P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	5.5	U		P
7440-09-7	Potassium	1240	B		[illegible]
7782-49-2	Selenium	1.5	B	W	F
7440-22-4	Silver	1.9	U		P
7440-23-5	Sodium	9690			P
7440-28-0	Thallium	2.0	U		F
7440-62-2	Vanadium	2.8	B		P
7440-66-6	Zinc	11.5	B		P
	Cyanide	0.75	U		AS

›lor Before: Clarity Before: Texture:

›lor After: Clarity After: Artifacts:

›mments:

U.S. EPA - CLP

EPA SAMPLE NO.

1

INORGANIC ANALYSIS DATA SHEET

PFB001

Lab Name: PACE Inc., NE-NH Contract:

Lab Code: Case No.: BRUNS SAS No.: SDG No.: EPFB00

Matrix (soil/water): WATER Lab Sample ID: 43306-030

Level (low/med): LOW Date Received: 03/22/95

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	15.4	U		P
7440-36-0	Antimony	11.9	U		P
7440-38-2	Arsenic	1.6	U	W	F
7440-39-3	Barium	0.80	U		P
7440-41-7	Beryllium	0.20	U		P
7440-43-9	Cadmium	1.4	U		P
7440-70-2	Calcium	7.3	U		P
7440-47-3	Chromium	2.0	U		P
7440-48-4	Cobalt	2.4	U		P
7440-50-8	Copper	5.6	U		P
7439-89-6	Iron	11.0	U		P
7439-92-1	Lead	1.3	U		F
7439-95-4	Magnesium	22.8	U		P
7439-96-5	Manganese	0.50	U		P
7439-97-6	Mercury	0.24			CV
7440-02-0	Nickel	5.5	U		P
7440-09-7	Potassium	500	U		P
7782-49-2	Selenium	1.3	U	W	F
7440-22-4	Silver	1.9	U		P
7440-23-5	Sodium	24.1	B		P
7440-28-0	Thallium	2.0	U		F
7440-62-2	Vanadium	2.5	U		P
7440-66-6	Zinc	7.9	B		P
	Cyanide	0.75	U		AS

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

Appendix E.4

Sediment Samples
Sites 1 and 3

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0425-8
Report Date: 04/10/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPSD001	Solid	B. ANDERSEN	03/20/95	03/20/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Volatile Organics by EPA 8260								1,2,3
Medium								
Chloromethane	<920.	µg/kgdrywt	184	5.0	EPA 8260	03/31/95	DR	
Bromomethane	<920.	µg/kgdrywt	184	5.0	EPA 8260	03/31/95	DR	
Vinyl chloride	<370.	µg/kgdrywt	184	2.0	EPA 8260	03/31/95	DR	
Chloroethane	<370.	µg/kgdrywt	184	2.0	EPA 8260	03/31/95	DR	
Methylene chloride	JB320	µg/kgdrywt	184	3.0	EPA 8260	03/31/95	DR	
Acetone	30000.	µg/kgdrywt	184	5.0	EPA 8260	03/31/95	DR	
Carbon disulfide	<920.	µg/kgdrywt	184	5.0	EPA 8260	03/31/95	DR	
1,1-Dichloroethene	<180.	µg/kgdrywt	184	1.0	EPA 8260	03/31/95	DR	
1,1-Dichloroethane	<370.	µg/kgdrywt	184	2.0	EPA 8260	03/31/95	DR	
Total 1,2-Dichloroethene	<370.	µg/kgdrywt	184	2.0	EPA 8260	03/31/95	DR	
Chloroform	<920.	µg/kgdrywt	184	5.0	EPA 8260	03/31/95	DR	
1,2-Dichloroethane	<370.	µg/kgdrywt	184	2.0	EPA 8260	03/31/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) "J" flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.
(2) "B" flag denotes detection of this analyte in the laboratory method blank analyzed concurrently with the sample.
(3) This sample was run under medium soil protocols.

04/10/95

LJO/jcbabb(dw)/sra
LC31VLS4

110001

340 County Road #5, PO Box 720
Westbrook, ME 04098
TEL: 207-874-2400
FAX 207-775-4029

An Equal Opportunity Employer

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0425-8
Report Date: 04/10/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPSD001	Solid	B. ANDERSEN	03/20/95	03/20/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
2-Butanone	<920.	µg/kgdrywt	184	5.0	EPA 8260	03/31/95	DR	
1,1,1-Trichloroethane	<370.	µg/kgdrywt	184	2.0	EPA 8260	03/31/95	DR	
Carbon tetrachloride	<920.	µg/kgdrywt	184	5.0	EPA 8260	03/31/95	DR	
Bromodichloromethane	<920.	µg/kgdrywt	184	5.0	EPA 8260	03/31/95	DR	
1,2-Dichloropropane	<460.	µg/kgdrywt	184	2.5	EPA 8260	03/31/95	DR	
cis-1,3-Dichloropropene	<920.	µg/kgdrywt	184	5.0	EPA 8260	03/31/95	DR	
Trichloroethene	<460.	µg/kgdrywt	184	2.5	EPA 8260	03/31/95	DR	
Dibromochloromethane	<920.	µg/kgdrywt	184	5.0	EPA 8260	03/31/95	DR	
1,1,2-Trichloroethane	<920.	µg/kgdrywt	184	5.0	EPA 8260	03/31/95	DR	
Benzene	<370.	µg/kgdrywt	184	2.0	EPA 8260	03/31/95	DR	
trans-1,3-Dichloropropene	<920.	µg/kgdrywt	184	5.0	EPA 8260	03/31/95	DR	
Bromoform	<920.	µg/kgdrywt	184	5.0	EPA 8260	03/31/95	DR	
4-Methyl-2-pentanone	<550.	µg/kgdrywt	184	3.0	EPA 8260	03/31/95	DR	
2-Hexanone	<740.	µg/kgdrywt	184	4.0	EPA 8260	03/31/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/10/95

LJO/jcbabb(dw)/sra
LC31VLS4

000072

340 County Road #5, P.O. Box 720
Westbrook, ME 04098
TEL: 207-874-2400
FAX: 207-775-4029

An Equal Opportunity Employer

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0425-8
Report Date: 04/10/95
PO No. : 802LSOA
Project : 29600.47

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPSD001	Solid	B. ANDERSEN	03/20/95	03/20/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Tetrachloroethene	<370.	µg/kgdrywt	184	2.0	EPA 8260	03/31/95	DR	
1,1,2,2-Tetrachloroethane	<920.	µg/kgdrywt	184	5.0	EPA 8260	03/31/95	DR	
Toluene	<370.	µg/kgdrywt	184	2.0	EPA 8260	03/31/95	DR	
Chlorobenzene	<920.	µg/kgdrywt	184	5.0	EPA 8260	03/31/95	DR	
Ethylbenzene	<370.	µg/kgdrywt	184	2.0	EPA 8260	03/31/95	DR	
Styrene	<370.	µg/kgdrywt	184	2.0	EPA 8260	03/31/95	DR	
Total Xylenes	<370.	µg/kgdrywt	184	2.0	EPA 8260	03/31/95	DR	
Dibromofluoromethane (Surr.)	105.	%	184		EPA 8260	03/31/95	DR	
Toluene-d8 (Surr.)	100.	%	184		EPA 8260	03/31/95	DR	
p-Bromofluorobenzene (Surr.)	94.	%	184		EPA 8260	03/31/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/10/95

LJO/jcbabb(dw)/sra
LC31VLS4

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VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.:	EPSD001
Matrix (soil/water)	Soil	Lab Sample ID:	EPSD001
Sample wt/vol:	4 (g/ml) g	Lab File ID:	Y8075
Level: (low/med)	med	Date Received:	3/20/95
% Moisture: not dec.	32	Date Analyzed:	3/31/95
GC Column:	RTX-624 ID: 0.53	Dilution Factor:	1.0
Soil Extract Volume:	10000 (ul)	Soil Aliquot Volume:	100 (ul)

Number of TIC's Found: 2

CONCENTRATION UNITS (ug/L or ug/KG) ug/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	124389	Carbon Dioxide	2.14	1300	JNB
2.	67630	2-Propanol	6.05	1900	JN
3.					
4.					
5.					
6.					
7.					
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pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0425-7
Report Date: 04/10/95
PO No. : 802LSQA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPSD002	Solid	B. ANDERSEN	03/20/95	03/20/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Volatile Organics by EPA 8260								1,2,3
Medium								
Chloromethane	<1200.	µg/kgdrywt	231	5.0	EPA 8260	03/31/95	DR	
Bromomethane	<1200.	µg/kgdrywt	231	5.0	EPA 8260	03/31/95	DR	
Vinyl chloride	<460.	µg/kgdrywt	231	2.0	EPA 8260	03/31/95	DR	
Chloroethane	<460.	µg/kgdrywt	231	2.0	EPA 8260	03/31/95	DR	
Methylene chloride	JB600	µg/kgdrywt	231	3.0	EPA 8260	03/31/95	DR	
Acetone	3400.	µg/kgdrywt	231	5.0	EPA 8260	03/31/95	DR	
Carbon disulfide	<1200.	µg/kgdrywt	231	5.0	EPA 8260	03/31/95	DR	
1,1-Dichloroethene	<230.	µg/kgdrywt	231	1.0	EPA 8260	03/31/95	DR	
1,1-Dichloroethane	<460.	µg/kgdrywt	231	2.0	EPA 8260	03/31/95	DR	
Total 1,2-Dichloroethene	<460.	µg/kgdrywt	231	2.0	EPA 8260	03/31/95	DR	
Chloroform	<1200.	µg/kgdrywt	231	5.0	EPA 8260	03/31/95	DR	
1,2-Dichloroethane	<460.	µg/kgdrywt	231	2.0	EPA 8260	03/31/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

(1) "J" flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.

(2) "B" flag denotes detection of this analyte in the laboratory method blank analyzed concurrently with the sample.

(3) This sample was run under medium soil protocols.

04/10/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0425-7
Report Date: 04/10/95
PO No. : 802LSOA
Project : 29600.47

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPSD002	Solid	B. ANDERSEN	03/20/95	03/20/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
2-Butanone	<1200.	µg/kgdrywt	231	5.0	EPA 8260	03/31/95	DR	
1,1,1-Trichloroethane	<460.	µg/kgdrywt	231	2.0	EPA 8260	03/31/95	DR	
Carbon tetrachloride	<1200.	µg/kgdrywt	231	5.0	EPA 8260	03/31/95	DR	
Bromodichloromethane	<1200.	µg/kgdrywt	231	5.0	EPA 8260	03/31/95	DR	
1,2-Dichloropropane	<580.	µg/kgdrywt	231	2.5	EPA 8260	03/31/95	DR	
cis-1,3-Dichloropropene	<1200.	µg/kgdrywt	231	5.0	EPA 8260	03/31/95	DR	
Trichloroethene	<580.	µg/kgdrywt	231	2.5	EPA 8260	03/31/95	DR	
Dibromochloromethane	<1200.	µg/kgdrywt	231	5.0	EPA 8260	03/31/95	DR	
1,1,2-Trichloroethane	<1200.	µg/kgdrywt	231	5.0	EPA 8260	03/31/95	DR	
Benzene	<460.	µg/kgdrywt	231	2.0	EPA 8260	03/31/95	DR	
trans-1,3-Dichloropropene	<1200.	µg/kgdrywt	231	5.0	EPA 8260	03/31/95	DR	
Bromoform	<1200.	µg/kgdrywt	231	5.0	EPA 8260	03/31/95	DR	
4-Methyl-2-pentanone	<690.	µg/kgdrywt	231	3.0	EPA 8260	03/31/95	DR	
2-Hexanone	<920.	µg/kgdrywt	231	4.0	EPA 8260	03/31/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/10/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0425-7
Report Date: 04/10/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPSD002	Solid	B. ANDERSEN	03/20/95	03/20/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Tetrachloroethene	<460.	µg/kgdrywt	231	2.0	EPA 8260	03/31/95	DR	
1,1,2,2-Tetrachloroethane	<1200.	µg/kgdrywt	231	5.0	EPA 8260	03/31/95	DR	
Toluene	<460.	µg/kgdrywt	231	2.0	EPA 8260	03/31/95	DR	
Chlorobenzene	<1200.	µg/kgdrywt	231	5.0	EPA 8260	03/31/95	DR	
Ethylbenzene	<460.	µg/kgdrywt	231	2.0	EPA 8260	03/31/95	DR	
Styrene	<460.	µg/kgdrywt	231	2.0	EPA 8260	03/31/95	DR	
Total Xylenes	<460.	µg/kgdrywt	231	2.0	EPA 8260	03/31/95	DR	
Dibromofluoromethane (Surr.)	104.	%	231		EPA 8260	03/31/95	DR	
Toluene-d8 (Surr.)	96.	%	231		EPA 8260	03/31/95	DR	
p-Bromofluorobenzene (Surr.)	88.	%	231		EPA 8260	03/31/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/10/95

LJO/jcbabb(dw)/kwh/sra
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VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.:	EPSD001
Matrix (soil/water)	Soil	Lab Sample ID:	EPSD002
Sample wt/vol:	4 (g/ml) g	Lab File ID:	Y8074
Level: (low/med)	med	Date Received:	3/20/95
% Moisture: not dec.	46	Date Analyzed:	3/31/95
GC Column:	RTX-624 ID: 0.53	Dilution Factor:	1.0
Soil Extract Volume:	10000 (ul)	Soil Aliquot Volume:	100 (ul)

Number of TIC's Found: 1

CONCENTRATION UNITS (ug/L or ug/KG) ug/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	124389	Carbon Dioxide	2.14	1800	JNB
2.					
3.					
4.					
5.					
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0425-6
Report Date: 04/10/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPSD003	Solid	B. ANDERSEN	03/20/95	03/20/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Volatile Organics by EPA 8260								1,2,3
Chloromethane	<9.	µg/kgdrywt	1.8	5.0	EPA 8260	03/27/95	DR	
Bromomethane	<9.	µg/kgdrywt	1.8	5.0	EPA 8260	03/27/95	DR	
Vinyl chloride	<3.6	µg/kgdrywt	1.8	2.0	EPA 8260	03/27/95	DR	
Chloroethane	<3.6	µg/kgdrywt	1.8	2.0	EPA 8260	03/27/95	DR	
Methylene chloride	B10	µg/kgdrywt	1.8	3.0	EPA 8260	03/27/95	DR	
Acetone	BE12000	µg/kgdrywt	1.8	5.0	EPA 8260	03/27/95	DR	
Carbon disulfide	<9.	µg/kgdrywt	1.8	5.0	EPA 8260	03/27/95	DR	
1,1-Dichloroethene	<1.8	µg/kgdrywt	1.8	1.0	EPA 8260	03/27/95	DR	
1,1-Dichloroethane	<3.6	µg/kgdrywt	1.8	2.0	EPA 8260	03/27/95	DR	
Total 1,2-Dichloroethene	<3.6	µg/kgdrywt	1.8	2.0	EPA 8260	03/27/95	DR	
Chloroform	<9.	µg/kgdrywt	1.8	5.0	EPA 8260	03/27/95	DR	
1,2-Dichloroethane	<3.6	µg/kgdrywt	1.8	2.0	EPA 8260	03/27/95	DR	
2-Butanone	34.	µg/kgdrywt	1.8	5.0	EPA 8260	03/27/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

(1) "B" flag denotes detection of this analyte in the laboratory method blank analyzed concurrently with the sample.

(2) "E" flag indicates an estimated value. The analyte was detected in the sample at a concentration greater than the standard calibration range.

(3) 1,4-Dichlorobenzene-d4 istd recovery low.

04/10/95

LJO/jcbear/kwh/ljo(dw)/sra
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0425-6
Report Date: 04/10/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPSD003	Solid	B. ANDERSEN	03/20/95	03/20/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
1,1,1-Trichloroethane	<3.6	µg/kgdrywt	1.8	2.0	EPA 8260	03/27/95	DR	
Carbon tetrachloride	<9.	µg/kgdrywt	1.8	5.0	EPA 8260	03/27/95	DR	
Bromodichloromethane	<9.	µg/kgdrywt	1.8	5.0	EPA 8260	03/27/95	DR	
1,2-Dichloropropane	<4.5	µg/kgdrywt	1.8	2.5	EPA 8260	03/27/95	DR	
cis-1,3-Dichloropropene	<9.	µg/kgdrywt	1.8	5.0	EPA 8260	03/27/95	DR	
Trichloroethene	<4.5	µg/kgdrywt	1.8	2.5	EPA 8260	03/27/95	DR	
Dibromochloromethane	<9.	µg/kgdrywt	1.8	5.0	EPA 8260	03/27/95	DR	
1,1,2-Trichloroethane	<9.	µg/kgdrywt	1.8	5.0	EPA 8260	03/27/95	DR	
Benzene	<3.6	µg/kgdrywt	1.8	2.0	EPA 8260	03/27/95	DR	
trans-1,3-Dichloropropene	<9.	µg/kgdrywt	1.8	5.0	EPA 8260	03/27/95	DR	
Bromoform	<9.	µg/kgdrywt	1.8	5.0	EPA 8260	03/27/95	DR	
4-Methyl-2-pentanone	<5.4	µg/kgdrywt	1.8	3.0	EPA 8260	03/27/95	DR	
2-Hexanone	<7.2	µg/kgdrywt	1.8	4.0	EPA 8260	03/27/95	DR	
Tetrachloroethene	<3.6	µg/kgdrywt	1.8	2.0	EPA 8260	03/27/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/10/95

LJO/jcbear/kwh/ljo(dw)/sra
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0425-6
Report Date: 04/10/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPSD003	Solid	B. ANDERSEN	03/20/95	03/20/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
1,1,2,2-Tetrachloroethane	<9.	µg/kgdrywt	1.8	5.0	EPA 8260	03/27/95	DR	
Toluene	<3.6	µg/kgdrywt	1.8	2.0	EPA 8260	03/27/95	DR	
Chlorobenzene	<9.	µg/kgdrywt	1.8	5.0	EPA 8260	03/27/95	DR	
Ethylbenzene	<3.6	µg/kgdrywt	1.8	2.0	EPA 8260	03/27/95	DR	
Styrene	<3.6	µg/kgdrywt	1.8	2.0	EPA 8260	03/27/95	DR	
Total Xylenes	<3.6	µg/kgdrywt	1.8	2.0	EPA 8260	03/27/95	DR	
Dibromofluoromethane (Surr.)	97.	%	1.8		EPA 8260	03/27/95	DR	
Toluene-d8 (Surr.)	96.	%	1.8		EPA 8260	03/27/95	DR	
p-Bromofluorobenzene (Surr.)	76.	%	1.8		EPA 8260	03/27/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/10/95

LJO/jcbear/kwh/ljo(dw)/sra
LC27VLS1

Respectfully submitted,
PACE, INC.
Laura J. O'Meara
Laura J. O'Meara
Supervisor, Client Services

190000

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1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.:	EPSD001
Matrix (soil/water)	Soil	Lab Sample ID:	EPSD003
Sample wt/vol:	5 (g/ml) g	Lab File ID:	Y7953
Level: (low/med)	low	Date Received:	3/20/95
% Moisture: not dec.	46	Date Analyzed:	3/27/95
GC Column:	RTX-624 ID: 0.53	Dilution Factor:	1.0
Soil Extract Volume:	0 (ul)	Soil Aliquot Volume:	0 (ul)

Number of TIC's Found: 2

CONCENTRATION UNITS (ug/L or ug/KG) ug/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	124389	Carbon Dioxide	2.13	370	JNB
2.	67630	2-Propanol	5.83	960	JN
3.	50079	N-(PENTAFLUOROBENZYLIDENE)-BETA	22.24	14	JN
4.					
5.					
6.					
7.					
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0425-6
Report Date: 04/10/95
PO No. : 802LSQA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPSD003	Solid	B. ANDERSEN	03/20/95	03/20/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Volatile Organics by EPA 8260								1,2,3
Medium								
Chloromethane	<1200.	µg/kgdrywt	231	5.0	EPA 8260	03/30/95	DR	
Bromomethane	<1200.	µg/kgdrywt	231	5.0	EPA 8260	03/30/95	DR	
Vinyl chloride	<460.	µg/kgdrywt	231	2.0	EPA 8260	03/30/95	DR	
Chloroethane	<460.	µg/kgdrywt	231	2.0	EPA 8260	03/30/95	DR	
Methylene chloride	JB630	µg/kgdrywt	231	3.0	EPA 8260	03/30/95	DR	
Acetone	7100.	µg/kgdrywt	231	5.0	EPA 8260	03/30/95	DR	
Carbon disulfide	<1200.	µg/kgdrywt	231	5.0	EPA 8260	03/30/95	DR	
1,1-Dichloroethene	<230.	µg/kgdrywt	231	1.0	EPA 8260	03/30/95	DR	
1,1-Dichloroethane	<460.	µg/kgdrywt	231	2.0	EPA 8260	03/30/95	DR	
Total 1,2-Dichloroethene	<460.	µg/kgdrywt	231	2.0	EPA 8260	03/30/95	DR	
Chloroform	<1200.	µg/kgdrywt	231	5.0	EPA 8260	03/30/95	DR	
1,2-Dichloroethane	<460.	µg/kgdrywt	231	2.0	EPA 8260	03/30/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

(1) "J" flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.

(2) "B" flag denotes detection of this analyte in the laboratory method blank analyzed concurrently with the sample.

(3) This sample was run under medium soil protocols.

04/10/95

LJO/jcbabb(dw)/kwh/sra
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000063

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0425-6
Report Date: 04/10/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPSD003	Solid	B. ANDERSEN	03/20/95	03/20/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
2-Butanone	<1200.	µg/kgdrywt	231	5.0	EPA 8260	03/30/95	DR	
1,1,1-Trichloroethane	<460.	µg/kgdrywt	231	2.0	EPA 8260	03/30/95	DR	
Carbon tetrachloride	<1200.	µg/kgdrywt	231	5.0	EPA 8260	03/30/95	DR	
Bromodichloromethane	<1200.	µg/kgdrywt	231	5.0	EPA 8260	03/30/95	DR	
1,2-Dichloropropane	<580.	µg/kgdrywt	231	2.5	EPA 8260	03/30/95	DR	
cis-1,3-Dichloropropene	<1200.	µg/kgdrywt	231	5.0	EPA 8260	03/30/95	DR	
Trichloroethene	<580.	µg/kgdrywt	231	2.5	EPA 8260	03/30/95	DR	
Dibromochloromethane	<1200.	µg/kgdrywt	231	5.0	EPA 8260	03/30/95	DR	
1,1,2-Trichloroethane	<1200.	µg/kgdrywt	231	5.0	EPA 8260	03/30/95	DR	
Benzene	<460.	µg/kgdrywt	231	2.0	EPA 8260	03/30/95	DR	
trans-1,3-Dichloropropene	<1200.	µg/kgdrywt	231	5.0	EPA 8260	03/30/95	DR	
Bromoform	<1200.	µg/kgdrywt	231	5.0	EPA 8260	03/30/95	DR	
4-Methyl-2-pentanone	<690.	µg/kgdrywt	231	3.0	EPA 8260	03/30/95	DR	
2-Hexanone	<920.	µg/kgdrywt	231	4.0	EPA 8260	03/30/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/10/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0425-6
Report Date: 04/10/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPSD003	Solid	B. ANDERSEN	03/20/95	03/20/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Tetrachloroethene	<460.	µg/kgdrywt	231	2.0	EPA 8260	03/30/95	DR	
1,1,2,2-Tetrachloroethane	<1200.	µg/kgdrywt	231	5.0	EPA 8260	03/30/95	DR	
Toluene	<460.	µg/kgdrywt	231	2.0	EPA 8260	03/30/95	DR	
Chlorobenzene	<1200.	µg/kgdrywt	231	5.0	EPA 8260	03/30/95	DR	
Ethylbenzene	<460.	µg/kgdrywt	231	2.0	EPA 8260	03/30/95	DR	
Styrene	<460.	µg/kgdrywt	231	2.0	EPA 8260	03/30/95	DR	
Total Xylenes	<460.	µg/kgdrywt	231	2.0	EPA 8260	03/30/95	DR	
Dibromofluoromethane (Surr.)	108.	%	231		EPA 8260	03/30/95	DR	
Toluene-d8 (Surr.)	101.	%	231		EPA 8260	03/30/95	DR	
p-Bromofluorobenzene (Surr.)	110.	%	231		EPA 8260	03/30/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/10/95

LJO/jcbabb(dw)/kwh/sra
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Respectfully submitted,
PACE, INC.
Laura J. O'Meara
Laura J. O'Meara
Supervisor, Client Services

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.:	EPSD001
Matrix (soil/water)	Soil	Lab Sample ID:	EPSD003M
Sample wt/vol:	4 (g/ml) g	Lab File ID:	Y8048
Level: (low/med)	med	Date Received:	3/20/95
% Moisture: not dec.	46	Date Analyzed:	3/30/95
GC Column:	RTX-624 ID: 0.53	Dilution Factor:	1.0
Soil Extract Volume:	10000 (ul)	Soil Aliquot Volume:	100 (ul)

Number of TIC's Found: 1

CONCENTRATION UNITS
(ug/L or ug/KG) ug/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	124389	Carbon Dioxide	2.11	1400	JN
2.					
3.					
4.					
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pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0425-5
Report Date: 04/10/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPSD004	Solid	B. ANDERSEN	03/19/95	03/20/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Volatile Organics by EPA 8260								1,2,3
Medium								
Chloromethane	<1100.	µg/kgdrywt	212	5.0	EPA 8260	03/30/95	DR	
Bromomethane	<1100.	µg/kgdrywt	212	5.0	EPA 8260	03/30/95	DR	
Vinyl chloride	<420.	µg/kgdrywt	212	2.0	EPA 8260	03/30/95	DR	
Chloroethane	<420.	µg/kgdrywt	212	2.0	EPA 8260	03/30/95	DR	
Methylene chloride	JB410	µg/kgdrywt	212	3.0	EPA 8260	03/30/95	DR	
Acetone	2800.	µg/kgdrywt	212	5.0	EPA 8260	03/30/95	DR	
Carbon disulfide	<1100.	µg/kgdrywt	212	5.0	EPA 8260	03/30/95	DR	
1,1-Dichloroethene	<210.	µg/kgdrywt	212	1.0	EPA 8260	03/30/95	DR	
1,1-Dichloroethane	<420.	µg/kgdrywt	212	2.0	EPA 8260	03/30/95	DR	
Total 1,2-Dichloroethene	<420.	µg/kgdrywt	212	2.0	EPA 8260	03/30/95	DR	
Chloroform	<1100.	µg/kgdrywt	212	5.0	EPA 8260	03/30/95	DR	
1,2-Dichloroethane	<420.	µg/kgdrywt	212	2.0	EPA 8260	03/30/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

(1) "J" flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.

(2) "B" flag denotes detection of this analyte in the laboratory method blank analyzed concurrently with the sample.

(3) This sample was run under medium soil protocols.

04/10/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0425-5
Report Date: 04/10/95
PO No. : 802LSOA
Project : 29600.47

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPSD004	Solid	B. ANDERSEN	03/19/95	03/20/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
2-Butanone	<1100.	µg/kgdrywt	212	5.0	EPA 8260	03/30/95	DR	
1,1,1-Trichloroethane	<420.	µg/kgdrywt	212	2.0	EPA 8260	03/30/95	DR	
Carbon tetrachloride	<1100.	µg/kgdrywt	212	5.0	EPA 8260	03/30/95	DR	
Bromodichloromethane	<1100.	µg/kgdrywt	212	5.0	EPA 8260	03/30/95	DR	
1,2-Dichloropropane	<530.	µg/kgdrywt	212	2.5	EPA 8260	03/30/95	DR	
cis-1,3-Dichloropropene	<1100.	µg/kgdrywt	212	5.0	EPA 8260	03/30/95	DR	
Trichloroethene	<530.	µg/kgdrywt	212	2.5	EPA 8260	03/30/95	DR	
Dibromochloromethane	<1100.	µg/kgdrywt	212	5.0	EPA 8260	03/30/95	DR	
1,1,2-Trichloroethane	<1100.	µg/kgdrywt	212	5.0	EPA 8260	03/30/95	DR	
Benzene	<420.	µg/kgdrywt	212	2.0	EPA 8260	03/30/95	DR	
trans-1,3-Dichloropropene	<1100.	µg/kgdrywt	212	5.0	EPA 8260	03/30/95	DR	
Bromoform	<1100.	µg/kgdrywt	212	5.0	EPA 8260	03/30/95	DR	
4-Methyl-2-pentanone	<640.	µg/kgdrywt	212	3.0	EPA 8260	03/30/95	DR	
2-Hexanone	<850.	µg/kgdrywt	212	4.0	EPA 8260	03/30/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/10/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0425-5
Report Date: 04/10/95
PO No. : 802LSOA
Project : 29600.47

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPSD004	Solid	B. ANDERSEN	03/19/95	03/20/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Tetrachloroethene	<420.	µg/kgdrywt	212	2.0	EPA 8260	03/30/95	DR	
1,1,2,2-Tetrachloroethane	<1100.	µg/kgdrywt	212	5.0	EPA 8260	03/30/95	DR	
Toluene	<420.	µg/kgdrywt	212	2.0	EPA 8260	03/30/95	DR	
Chlorobenzene	<1100.	µg/kgdrywt	212	5.0	EPA 8260	03/30/95	DR	
Ethylbenzene	<420.	µg/kgdrywt	212	2.0	EPA 8260	03/30/95	DR	
Styrene	<420.	µg/kgdrywt	212	2.0	EPA 8260	03/30/95	DR	
Total Xylenes	<420.	µg/kgdrywt	212	2.0	EPA 8260	03/30/95	DR	
Dibromofluoromethane (Surr.)	107.	%	212		EPA 8260	03/30/95	DR	
Toluene-d8 (Surr.)	97.	%	212		EPA 8260	03/30/95	DR	
p-Bromofluorobenzene (Surr.)	99.	%	212		EPA 8260	03/30/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/10/95

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VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.:	EPSD001
Matrix (soil/water)	Soil	Lab Sample ID:	EPSD004
Sample wt/vol:	4 (g/ml) g	Lab File ID:	Y8047
Level: (low/med)	med	Date Received:	3/20/95
% Moisture: not dec.	41	Date Analyzed:	3/30/95
GC Column:	RTX-624 ID: 0.53	Dilution Factor:	1.0
Soil Extract Volume:	10000 (ul)	Soil Aliquot Volume:	100 (ul)

Number of TIC's Found: 1

CONCENTRATION UNITS (ug/L or ug/KG) ug/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	124389	Carbon Dioxide	2.13	1300	JN
2.					
3.					
4.					
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pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0425-4
Report Date: 04/10/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPSD005	Solid	B. ANDERSEN	03/19/95	03/20/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Volatile Organics by EPA 8260								1,2,3
Medium								
Chloromethane	<840.	µg/kgdrywt	167	5.0	EPA 8260	03/30/95	DR	
Bromomethane	<840.	µg/kgdrywt	167	5.0	EPA 8260	03/30/95	DR	
Vinyl chloride	<330.	µg/kgdrywt	167	2.0	EPA 8260	03/30/95	DR	
Chloroethane	<330.	µg/kgdrywt	167	2.0	EPA 8260	03/30/95	DR	
Methylene chloride	JB440	µg/kgdrywt	167	3.0	EPA 8260	03/30/95	DR	
Acetone	3600.	µg/kgdrywt	167	5.0	EPA 8260	03/30/95	DR	
Carbon disulfide	<840.	µg/kgdrywt	167	5.0	EPA 8260	03/30/95	DR	
1,1-Dichloroethene	<170.	µg/kgdrywt	167	1.0	EPA 8260	03/30/95	DR	
1,1-Dichloroethane	<330.	µg/kgdrywt	167	2.0	EPA 8260	03/30/95	DR	
Total 1,2-Dichloroethene	<330.	µg/kgdrywt	167	2.0	EPA 8260	03/30/95	DR	
Chloroform	<840.	µg/kgdrywt	167	5.0	EPA 8260	03/30/95	DR	
1,2-Dichloroethane	<330.	µg/kgdrywt	167	2.0	EPA 8260	03/30/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

(1) "J" flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.

(2) "B" flag denotes detection of this analyte in the laboratory method blank analyzed concurrently with the sample.

(3) This sample was run under medium soil protocols.

04/10/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0425-4
Report Date: 04/10/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPSD005	Solid	B. ANDERSEN	03/19/95	03/20/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
2-Butanone	<840.	µg/kgdrywt	167	5.0	EPA 8260	03/30/95	DR	
1,1,1-Trichloroethane	<330.	µg/kgdrywt	167	2.0	EPA 8260	03/30/95	DR	
Carbon tetrachloride	<840.	µg/kgdrywt	167	5.0	EPA 8260	03/30/95	DR	
Bromodichloromethane	<840.	µg/kgdrywt	167	5.0	EPA 8260	03/30/95	DR	
1,2-Dichloropropane	<420.	µg/kgdrywt	167	2.5	EPA 8260	03/30/95	DR	
cis-1,3-Dichloropropene	<840.	µg/kgdrywt	167	5.0	EPA 8260	03/30/95	DR	
Trichloroethene	<420.	µg/kgdrywt	167	2.5	EPA 8260	03/30/95	DR	
Dibromochloromethane	<840.	µg/kgdrywt	167	5.0	EPA 8260	03/30/95	DR	
1,1,2-Trichloroethane	<840.	µg/kgdrywt	167	5.0	EPA 8260	03/30/95	DR	
Benzene	<330.	µg/kgdrywt	167	2.0	EPA 8260	03/30/95	DR	
trans-1,3-Dichloropropene	<840.	µg/kgdrywt	167	5.0	EPA 8260	03/30/95	DR	
Bromoform	<840.	µg/kgdrywt	167	5.0	EPA 8260	03/30/95	DR	
4-Methyl-2-pentanone	<500.	µg/kgdrywt	167	3.0	EPA 8260	03/30/95	DR	
2-Hexanone	<670.	µg/kgdrywt	167	4.0	EPA 8260	03/30/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/10/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0425-4
Report Date: 04/10/95
PO No. : 802LSOA
Project : 29600.47

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPSD005	Solid	B. ANDERSEN	03/19/95	03/20/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Tetrachloroethene	<330.	µg/kgdrywt	167	2.0	EPA 8260	03/30/95	DR	
1,1,2,2-Tetrachloroethane	<840.	µg/kgdrywt	167	5.0	EPA 8260	03/30/95	DR	
Toluene	<330.	µg/kgdrywt	167	2.0	EPA 8260	03/30/95	DR	
Chlorobenzene	<840.	µg/kgdrywt	167	5.0	EPA 8260	03/30/95	DR	
Ethylbenzene	<330.	µg/kgdrywt	167	2.0	EPA 8260	03/30/95	DR	
Styrene	<330.	µg/kgdrywt	167	2.0	EPA 8260	03/30/95	DR	
Total Xylenes	<330.	µg/kgdrywt	167	2.0	EPA 8260	03/30/95	DR	
Dibromofluoromethane (Surr.)	107.	%	167		EPA 8260	03/30/95	DR	
Toluene-d8 (Surr.)	102.	%	167		EPA 8260	03/30/95	DR	
p-Bromofluorobenzene (Surr.)	105.	%	167		EPA 8260	03/30/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/10/95

LJO/jcbabb(dw)/kwh/sra
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VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.:	EPSD001
Matrix (soil/water)	Soil	Lab Sample ID:	EPSD005
Sample wt/vol:	4 (g/ml) g	Lab File ID:	Y8046
Level: (low/med)	med	Date Received:	3/20/95
% Moisture: not dec.	25	Date Analyzed:	3/30/95
GC Column:	RTX-624 ID: 0.53	Dilution Factor:	1.0
Soil Extract Volume:	10000 (ul)	Soil Aliquot Volume:	100 (ul)

Number of TIC's Found: 1

CONCENTRATION UNITS (ug/L or ug/KG) ug/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	124389	Carbon Dioxide	2.14	1300	JN
2.					
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pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0425-1
Report Date: 04/10/95
PO No. : 802LSOA
Project : 29600.47

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPSD006	Solid	B. ANDERSEN	03/19/95	03/20/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Volatile Organics by EPA 8260								1,2,3,4
Chloromethane	<7.	µg/kgdrywt	1.4	5.0	EPA 8260	03/27/95	DR	
Bromomethane	<7.	µg/kgdrywt	1.4	5.0	EPA 8260	03/27/95	DR	
Vinyl chloride	<2.8	µg/kgdrywt	1.4	2.0	EPA 8260	03/27/95	DR	
Chloroethane	J2.	µg/kgdrywt	1.4	2.0	EPA 8260	03/27/95	DR	
Methylene chloride	B5	µg/kgdrywt	1.4	3.0	EPA 8260	03/27/95	DR	
Acetone	BE2000	µg/kgdrywt	1.4	5.0	EPA 8260	03/27/95	DR	
Carbon disulfide	<7.	µg/kgdrywt	1.4	5.0	EPA 8260	03/27/95	DR	
1,1-Dichloroethene	<1.4	µg/kgdrywt	1.4	1.0	EPA 8260	03/27/95	DR	
1,1-Dichloroethane	<2.8	µg/kgdrywt	1.4	2.0	EPA 8260	03/27/95	DR	
Total 1,2-Dichloroethene	<2.8	µg/kgdrywt	1.4	2.0	EPA 8260	03/27/95	DR	
Chloroform	<7.	µg/kgdrywt	1.4	5.0	EPA 8260	03/27/95	DR	
1,2-Dichloroethane	<2.8	µg/kgdrywt	1.4	2.0	EPA 8260	03/27/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) "J" flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.
(2) "B" flag denotes detection of this analyte in the laboratory method blank analyzed concurrently with the sample.
(3) "E" flag indicates an estimated value. The analyte was detected in the sample at a concentration greater than the standard calibration range.
(4) 1,4-dichlorobenzene-d4 istd area recovery low.

04/10/95

LJO/jcbcas/dar/ljo(dw)/sra
LC27VLS1

000027

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0425-1
Report Date: 04/10/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPSD006	Solid	B. ANDERSEN	03/19/95	03/20/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
2-Butanone	<7.	µg/kgdrywt	1.4	5.0	EPA 8260	03/27/95	DR	
1,1,1-Trichloroethane	<2.8	µg/kgdrywt	1.4	2.0	EPA 8260	03/27/95	DR	
Carbon tetrachloride	<7.	µg/kgdrywt	1.4	5.0	EPA 8260	03/27/95	DR	
Bromodichloromethane	<7.	µg/kgdrywt	1.4	5.0	EPA 8260	03/27/95	DR	
1,2-Dichloropropane	<3.5	µg/kgdrywt	1.4	2.5	EPA 8260	03/27/95	DR	
cis-1,3-Dichloropropene	<7.	µg/kgdrywt	1.4	5.0	EPA 8260	03/27/95	DR	
Trichloroethene	<3.5	µg/kgdrywt	1.4	2.5	EPA 8260	03/27/95	DR	
Dibromochloromethane	<7.	µg/kgdrywt	1.4	5.0	EPA 8260	03/27/95	DR	
1,1,2-Trichloroethane	<7.	µg/kgdrywt	1.4	5.0	EPA 8260	03/27/95	DR	
Benzene	<2.8	µg/kgdrywt	1.4	2.0	EPA 8260	03/27/95	DR	
trans-1,3-Dichloropropene	<7.	µg/kgdrywt	1.4	5.0	EPA 8260	03/27/95	DR	
Bromoform	<7.	µg/kgdrywt	1.4	5.0	EPA 8260	03/27/95	DR	
4-Methyl-2-pentanone	<4.2	µg/kgdrywt	1.4	3.0	EPA 8260	03/27/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/10/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0425-1
Report Date: 04/10/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPSD006	Solid	B. ANDERSEN	03/19/95	03/20/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
2-Hexanone	<5.6	µg/kgdrywt	1.4	4.0	EPA 8260	03/27/95	DR	
Tetrachloroethene	<2.8	µg/kgdrywt	1.4	2.0	EPA 8260	03/27/95	DR	
1,1,2,2-Tetrachloroethane	<7.	µg/kgdrywt	1.4	5.0	EPA 8260	03/27/95	DR	
Toluene	<2.8	µg/kgdrywt	1.4	2.0	EPA 8260	03/27/95	DR	
Chlorobenzene	<7.	µg/kgdrywt	1.4	5.0	EPA 8260	03/27/95	DR	
Ethylbenzene	J2.	µg/kgdrywt	1.4	2.0	EPA 8260	03/27/95	DR	
Styrene	<2.8	µg/kgdrywt	1.4	2.0	EPA 8260	03/27/95	DR	
Total Xylenes	J1	µg/kgdrywt	1.4	2.0	EPA 8260	03/27/95	DR	
Dibromofluoromethane (Surr.)	110.	%	1.4		EPA 8260	03/27/95	DR	
Toluene-d8 (Surr.)	90.	%	1.4		EPA 8260	03/27/95	DR	
p-Bromofluorobenzene (Surr.)	76.	%	1.4		EPA 8260	03/27/95	DR	

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04/10/95

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1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.:	EPSD001
Matrix (soil/water)	Soil	Lab Sample ID:	EPSD006
Sample wt/vol:	5 (g/ml) g	Lab File ID:	Y7946
Level: (low/med)	low	Date Received:	3/20/95
% Moisture: not dec.	27	Date Analyzed:	3/27/95
GC Column:	RTX-624 ID: 0.53	Dilution Factor:	1.0
Soil Extract Volume:	0 (ul)	Soil Aliquot Volume:	0 (ul)

Number of TIC's Found: 2

CONCENTRATION UNITS (ug/L or ug/KG) ug/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	124389	Carbon Dioxide	2.08	280	JNB
2.		Unknown	22.25	8	J
3.					
4.					
5.					
6.					
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0425-1
Report Date: 04/10/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPSD006	Solid	B. ANDERSEN	03/19/95	03/20/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Volatile Organics by EPA 8260 Medium								1,2,3
Chloromethane	<860.	µg/kgdrywt	171	5.0	EPA 8260	03/30/95	DR	
Bromomethane	<860.	µg/kgdrywt	171	5.0	EPA 8260	03/30/95	DR	
Vinyl chloride	<340.	µg/kgdrywt	171	2.0	EPA 8260	03/30/95	DR	
Chloroethane	<340.	µg/kgdrywt	171	2.0	EPA 8260	03/30/95	DR	
Methylene chloride	JB400	µg/kgdrywt	171	3.0	EPA 8260	03/30/95	DR	
Acetone	3100.	µg/kgdrywt	171	5.0	EPA 8260	03/30/95	DR	
Carbon disulfide	<860.	µg/kgdrywt	171	5.0	EPA 8260	03/30/95	DR	
1,1-Dichloroethene	<170.	µg/kgdrywt	171	1.0	EPA 8260	03/30/95	DR	
1,1-Dichloroethane	<340.	µg/kgdrywt	171	2.0	EPA 8260	03/30/95	DR	
Total 1,2-Dichloroethene	<340.	µg/kgdrywt	171	2.0	EPA 8260	03/30/95	DR	
Chloroform	<860.	µg/kgdrywt	171	5.0	EPA 8260	03/30/95	DR	
1,2-Dichloroethane	<340.	µg/kgdrywt	171	2.0	EPA 8260	03/30/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) "J" flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.
(2) "B" flag denotes detection of this analyte in the laboratory method blank analyzed concurrently with the sample.
(3) This sample was run under medium soil protocols.

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REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0425-1
Report Date: 04/10/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPSD006	Solid	B. ANDERSEN	03/19/95	03/20/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
2-Butanone	<860.	µg/kgdrywt	171	5.0	EPA 8260	03/30/95	DR	
1,1,1-Trichloroethane	<340.	µg/kgdrywt	171	2.0	EPA 8260	03/30/95	DR	
Carbon tetrachloride	<860.	µg/kgdrywt	171	5.0	EPA 8260	03/30/95	DR	
Bromodichloromethane	<860.	µg/kgdrywt	171	5.0	EPA 8260	03/30/95	DR	
1,2-Dichloropropane	<430.	µg/kgdrywt	171	2.5	EPA 8260	03/30/95	DR	
cis-1,3-Dichloropropene	<860.	µg/kgdrywt	171	5.0	EPA 8260	03/30/95	DR	
Trichloroethene	<430.	µg/kgdrywt	171	2.5	EPA 8260	03/30/95	DR	
Dibromochloromethane	<860.	µg/kgdrywt	171	5.0	EPA 8260	03/30/95	DR	
1,1,2-Trichloroethane	<860.	µg/kgdrywt	171	5.0	EPA 8260	03/30/95	DR	
Benzene	<340.	µg/kgdrywt	171	2.0	EPA 8260	03/30/95	DR	
trans-1,3-Dichloropropene	<860.	µg/kgdrywt	171	5.0	EPA 8260	03/30/95	DR	
Bromoform	<860.	µg/kgdrywt	171	5.0	EPA 8260	03/30/95	DR	
4-Methyl-2-pentanone	<510.	µg/kgdrywt	171	3.0	EPA 8260	03/30/95	DR	
2-Hexanone	<680.	µg/kgdrywt	171	4.0	EPA 8260	03/30/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/10/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0425-1
Report Date: 04/10/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED	DATE RECEIVED
EPSD006	Solid	B. ANDERSEN	03/19/95	03/20/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Tetrachloroethene	<340.	µg/kgdrywt	171	2.0	EPA 8260	03/30/95	DR	
1,1,2,2-Tetrachloroethane	<860.	µg/kgdrywt	171	5.0	EPA 8260	03/30/95	DR	
Toluene	<340.	µg/kgdrywt	171	2.0	EPA 8260	03/30/95	DR	
Chlorobenzene	<860.	µg/kgdrywt	171	5.0	EPA 8260	03/30/95	DR	
Ethylbenzene	<340.	µg/kgdrywt	171	2.0	EPA 8260	03/30/95	DR	
Styrene	<340.	µg/kgdrywt	171	2.0	EPA 8260	03/30/95	DR	
Total Xylenes	<340.	µg/kgdrywt	171	2.0	EPA 8260	03/30/95	DR	
Dibromofluoromethane (Surr.)	106.	%	171		EPA 8260	03/30/95	DR	
Toluene-d8 (Surr.)	99.	%	171		EPA 8260	03/30/95	DR	
p-Bromofluorobenzene (Surr.)	99.	%	171		EPA 8260	03/30/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/10/95

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1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.:	EPSD001
Matrix (soil/water)	Soil	Lab Sample ID:	EPSD006
Sample wt/vol:	4 (g/ml) g	Lab File ID:	Y8043
Level: (low/med)	med	Date Received:	3/20/95
% Moisture: not dec.	27	Date Analyzed:	3/30/95
GC Column:	RTX-624 ID: 0.53	Dilution Factor:	1.0
Soil Extract Volume:	10000 (ul)	Soil Aliquot Volume:	100 (ul)

Number of TIC's Found: 1

CONCENTRATION UNITS
(ug/L or ug/KG) ug/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	124389	Carbon Dioxide	2.08	1400	JN
2.					
3.					
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0425-2
Report Date: 04/10/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPSD007	Solid	B. ANDERSEN	03/19/95	03/20/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Volatile Organics by EPA 8260								1,2,3
Chloromethane	<7.5	µg/kgdrywt	1.5	5.0	EPA 8260	03/31/95	DR	
Bromomethane	<7.5	µg/kgdrywt	1.5	5.0	EPA 8260	03/31/95	DR	
Vinyl chloride	<3.	µg/kgdrywt	1.5	2.0	EPA 8260	03/31/95	DR	
Chloroethane	<3.	µg/kgdrywt	1.5	2.0	EPA 8260	03/31/95	DR	
Methylene chloride	<4.5	µg/kgdrywt	1.5	3.0	EPA 8260	03/31/95	DR	
Acetone	20.	µg/kgdrywt	1.5	5.0	EPA 8260	03/31/95	DR	
Carbon disulfide	<7.5	µg/kgdrywt	1.5	5.0	EPA 8260	03/31/95	DR	
1,1-Dichloroethene	<1.5	µg/kgdrywt	1.5	1.0	EPA 8260	03/31/95	DR	
1,1-Dichloroethane	<3.	µg/kgdrywt	1.5	2.0	EPA 8260	03/31/95	DR	
Total 1,2-Dichloroethene	<3.	µg/kgdrywt	1.5	2.0	EPA 8260	03/31/95	DR	
Chloroform	<7.5	µg/kgdrywt	1.5	5.0	EPA 8260	03/31/95	DR	
1,2-Dichloroethane	<3.	µg/kgdrywt	1.5	2.0	EPA 8260	03/31/95	DR	
2-Butanone	J3.	µg/kgdrywt	1.5	5.0	EPA 8260	03/31/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) "J" flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.
(2) p-Bromofluorobenzene surrogate recovery low.
(3) 1,4-Dichlorobenzene-d4 istd area recovery low.

04/10/95

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REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0425-2
Report Date: 04/10/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPSD007	Solid	B. ANDERSEN	03/19/95	03/20/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
1,1,1-Trichloroethane	<3.	µg/kgdrywt	1.5	2.0	EPA 8260	03/31/95	DR	
Carbon tetrachloride	<7.5	µg/kgdrywt	1.5	5.0	EPA 8260	03/31/95	DR	
Bromodichloromethane	<7.5	µg/kgdrywt	1.5	5.0	EPA 8260	03/31/95	DR	
1,2-Dichloropropane	<3.8	µg/kgdrywt	1.5	2.5	EPA 8260	03/31/95	DR	
cis-1,3-Dichloropropene	<7.5	µg/kgdrywt	1.5	5.0	EPA 8260	03/31/95	DR	
Trichloroethene	<3.8	µg/kgdrywt	1.5	2.5	EPA 8260	03/31/95	DR	
Dibromochloromethane	<7.5	µg/kgdrywt	1.5	5.0	EPA 8260	03/31/95	DR	
1,1,2-Trichloroethane	<7.5	µg/kgdrywt	1.5	5.0	EPA 8260	03/31/95	DR	
Benzene	<3.	µg/kgdrywt	1.5	2.0	EPA 8260	03/31/95	DR	
trans-1,3-Dichloropropene	<7.5	µg/kgdrywt	1.5	5.0	EPA 8260	03/31/95	DR	
Bromoform	<7.5	µg/kgdrywt	1.5	5.0	EPA 8260	03/31/95	DR	
4-Methyl-2-pentanone	<4.5	µg/kgdrywt	1.5	3.0	EPA 8260	03/31/95	DR	
2-Hexanone	<6.	µg/kgdrywt	1.5	4.0	EPA 8260	03/31/95	DR	
Tetrachloroethene	<3.	µg/kgdrywt	1.5	2.0	EPA 8260	03/31/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/10/95

LJO/jcbear/kwh/ljo(dw)/sra
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0425-2
Report Date: 04/10/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPSD007	Solid	B. ANDERSEN	03/19/95	03/20/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
1,1,2,2-Tetrachloroethane	<7.5	µg/kgdrywt	1.5	5.0	EPA 8260	03/31/95	DR	
Toluene	<3.	µg/kgdrywt	1.5	2.0	EPA 8260	03/31/95	DR	
Chlorobenzene	<7.5	µg/kgdrywt	1.5	5.0	EPA 8260	03/31/95	DR	
Ethylbenzene	<3.	µg/kgdrywt	1.5	2.0	EPA 8260	03/31/95	DR	
Styrene	<3.	µg/kgdrywt	1.5	2.0	EPA 8260	03/31/95	DR	
Total Xylenes	<3.	µg/kgdrywt	1.5	2.0	EPA 8260	03/31/95	DR	
Dibromofluoromethane (Surr.)	101.	%	1.5		EPA 8260	03/31/95	DR	
Toluene-d8 (Surr.)	89.	%	1.5		EPA 8260	03/31/95	DR	
p-Bromofluorobenzene (Surr.)	73.	%	1.5		EPA 8260	03/31/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/10/95

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VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.:	EPSD001
Matrix (soil/water)	Soil	Lab Sample ID:	EPSD007
Sample wt/vol:	5 (g/ml) g	Lab File ID:	Y8071
Level: (low/med)	low	Date Received:	3/20/95
% Moisture: not dec.	32	Date Analyzed:	3/31/95
GC Column:	RTX-624 ID: 0.53	Dilution Factor:	1.0
Soil Extract Volume:	0 (ul)	Soil Aliquot Volume:	0 (ul)

Number of TIC's Found: 1

CONCENTRATION UNITS (ug/L or ug/KG) ug/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	124389	Carbon Dioxide	2.11	230	JNB
2.					
3.					
4.					
5.					
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0425-2
Report Date: 04/10/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPSD007	Solid	B. ANDERSEN	03/19/95	03/20/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Volatile Organics by EPA 8260								1,2,3
Reanalysis								
Chloromethane	<7.5	µg/kgdrywt	1.5	5.0	EPA 8260	03/31/95	DR	
Bromomethane	<7.5	µg/kgdrywt	1.5	5.0	EPA 8260	03/31/95	DR	
Vinyl chloride	<3.	µg/kgdrywt	1.5	2.0	EPA 8260	03/31/95	DR	
Chloroethane	<3.	µg/kgdrywt	1.5	2.0	EPA 8260	03/31/95	DR	
Methylene chloride	JB2	µg/kgdrywt	1.5	3.0	EPA 8260	03/31/95	DR	
Acetone	<7.5	µg/kgdrywt	1.5	5.0	EPA 8260	03/31/95	DR	
Carbon disulfide	<7.5	µg/kgdrywt	1.5	5.0	EPA 8260	03/31/95	DR	
1,1-Dichloroethene	<1.5	µg/kgdrywt	1.5	1.0	EPA 8260	03/31/95	DR	
1,1-Dichloroethane	<3.	µg/kgdrywt	1.5	2.0	EPA 8260	03/31/95	DR	
Total 1,2-Dichloroethene	<3.	µg/kgdrywt	1.5	2.0	EPA 8260	03/31/95	DR	
Chloroform	<7.5	µg/kgdrywt	1.5	5.0	EPA 8260	03/31/95	DR	
1,2-Dichloroethane	<3.	µg/kgdrywt	1.5	2.0	EPA 8260	03/31/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) "J" flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.
(2) "B" flag denotes detection of this analyte in the laboratory method blank analyzed concurrently with the sample.
(3) p-Bromofluorobenzene surrogate recovery low.

04/10/95

LJO/jcbear/kwh/ljo(dw)/sra
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0425-2
Report Date: 04/10/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPSD007	Solid	B. ANDERSEN	03/19/95	03/20/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
2-Butanone	<7.5	µg/kgdrywt	1.5	5.0	EPA 8260	03/31/95	DR	
1,1,1-Trichloroethane	<3.	µg/kgdrywt	1.5	2.0	EPA 8260	03/31/95	DR	
Carbon tetrachloride	<7.5	µg/kgdrywt	1.5	5.0	EPA 8260	03/31/95	DR	
Bromodichloromethane	<7.5	µg/kgdrywt	1.5	5.0	EPA 8260	03/31/95	DR	
1,2-Dichloropropane	<3.8	µg/kgdrywt	1.5	2.5	EPA 8260	03/31/95	DR	
cis-1,3-Dichloropropene	<7.5	µg/kgdrywt	1.5	5.0	EPA 8260	03/31/95	DR	
Trichloroethene	<3.8	µg/kgdrywt	1.5	2.5	EPA 8260	03/31/95	DR	
Dibromochloromethane	<7.5	µg/kgdrywt	1.5	5.0	EPA 8260	03/31/95	DR	
1,1,2-Trichloroethane	<7.5	µg/kgdrywt	1.5	5.0	EPA 8260	03/31/95	DR	
Benzene	<3.	µg/kgdrywt	1.5	2.0	EPA 8260	03/31/95	DR	
trans-1,3-Dichloropropene	<7.5	µg/kgdrywt	1.5	5.0	EPA 8260	03/31/95	DR	
Bromoform	<7.5	µg/kgdrywt	1.5	5.0	EPA 8260	03/31/95	DR	
4-Methyl-2-pentanone	<4.5	µg/kgdrywt	1.5	3.0	EPA 8260	03/31/95	DR	
2-Hexanone	<6.	µg/kgdrywt	1.5	4.0	EPA 8260	03/31/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values

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04/10/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0425-2
Report Date: 04/10/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPSDC07	Solid	B. ANDERSEN	03/19/95	03/20/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Tetrachloroethene	<3.	µg/kgdrywt	1.5	2.0	EPA 8260	03/31/95	DR	
1,1,2,2-Tetrachloroethane	<7.5	µg/kgdrywt	1.5	5.0	EPA 8260	03/31/95	DR	
Toluene	<3.	µg/kgdrywt	1.5	2.0	EPA 8260	03/31/95	DR	
Chlorobenzene	<7.5	µg/kgdrywt	1.5	5.0	EPA 8260	03/31/95	DR	
Ethylbenzene	<3.	µg/kgdrywt	1.5	2.0	EPA 8260	03/31/95	DR	
Styrene	<3.	µg/kgdrywt	1.5	2.0	EPA 8260	03/31/95	DR	
Total Xylenes	<3.	µg/kgdrywt	1.5	2.0	EPA 8260	03/31/95	DR	
Dibromofluoromethane (Surr.)	100.	%	1.5		EPA 8260	03/31/95	DR	
Toluene-d8 (Surr.)	93.	%	1.5		EPA 8260	03/31/95	DR	
p-Bromofluorobenzene (Surr.)	72.	%	1.5		EPA 8260	03/31/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/10/95

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VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.:	EPSD001
Matrix (soil/water)	Soil	Lab Sample ID:	EPSD007RE
Sample wt/vol:	5 (g/ml) g	Lab File ID:	Y8081
Level: (low/med)	low	Date Received:	3/20/95
% Moisture: not dec.	32	Date Analyzed:	3/31/95
GC Column:	RTX-624 ID: 0.53	Dilution Factor:	1.0
Soil Extract Volume:	0 (ul)	Soil Aliquot Volume:	0 (ul)

Number of TIC's Found: 1

CONCENTRATION UNITS (ug/L or ug/KG) ug/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	124389	Carbon Dioxide	2.10	140	JNB
2.					
3.					
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00042

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0425-3
Report Date: 04/10/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPSDDUP	Solid	B. ANDERSEN	03/19/95	03/20/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Volatile Organics by EPA 8260								1,2,3,4
Chloromethane	<7.5	µg/kgdrywt	1.5	5.0	EPA 8260	03/27/95	DR	
Bromomethane	<7.5	µg/kgdrywt	1.5	5.0	EPA 8260	03/27/95	DR	
Vinyl chloride	<3.	µg/kgdrywt	1.5	2.0	EPA 8260	03/27/95	DR	
Chloroethane	<3.	µg/kgdrywt	1.5	2.0	EPA 8260	03/27/95	DR	
Methylene chloride	JB4	µg/kgdrywt	1.5	3.0	EPA 8260	03/27/95	DR	
Acetone	B25	µg/kgdrywt	1.5	5.0	EPA 8260	03/27/95	DR	
Carbon disulfide	<7.5	µg/kgdrywt	1.5	5.0	EPA 8260	03/27/95	DR	
1,1-Dichloroethene	<1.5	µg/kgdrywt	1.5	1.0	EPA 8260	03/27/95	DR	
1,1-Dichloroethane	<3.	µg/kgdrywt	1.5	2.0	EPA 8260	03/27/95	DR	
Total 1,2-Dichloroethene	<3.	µg/kgdrywt	1.5	2.0	EPA 8260	03/27/95	DR	
Chloroform	<7.5	µg/kgdrywt	1.5	5.0	EPA 8260	03/27/95	DR	
1,2-Dichloroethane	<3.	µg/kgdrywt	1.5	2.0	EPA 8260	03/27/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) "J" flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.
(2) "B" flag denotes detection of this analyte in the laboratory method blank analyzed concurrently with the sample.
(3) p-Bromofluorobenzene surrogate recovery low.
(4) 1,4-Dichlorobenzene-d4 istd area recovery low.

04/10/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0425-3
Report Date: 04/10/95
PO No. : 802LSOA
Project : 29600.47

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPSDDUP	Solid	B. ANDERSEN	03/19/95	03/20/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
2-Butanone	<7.5	µg/kgdrywt	1.5	5.0	EPA 8260	03/27/95	DR	
1,1,1-Trichloroethane	<3.	µg/kgdrywt	1.5	2.0	EPA 8260	03/27/95	DR	
Carbon tetrachloride	<7.5	µg/kgdrywt	1.5	5.0	EPA 8260	03/27/95	DR	
Bromodichloromethane	<7.5	µg/kgdrywt	1.5	5.0	EPA 8260	03/27/95	DR	
1,2-Dichloropropane	<3.8	µg/kgdrywt	1.5	2.5	EPA 8260	03/27/95	DR	
cis-1,3-Dichloropropene	<7.5	µg/kgdrywt	1.5	5.0	EPA 8260	03/27/95	DR	
Trichloroethene	<3.8	µg/kgdrywt	1.5	2.5	EPA 8260	03/27/95	DR	
Dibromochloromethane	<7.5	µg/kgdrywt	1.5	5.0	EPA 8260	03/27/95	DR	
1,1,2-Trichloroethane	<7.5	µg/kgdrywt	1.5	5.0	EPA 8260	03/27/95	DR	
Benzene	<3.	µg/kgdrywt	1.5	2.0	EPA 8260	03/27/95	DR	
trans-1,3-Dichloropropene	<7.5	µg/kgdrywt	1.5	5.0	EPA 8260	03/27/95	DR	
Bromoform	<7.5	µg/kgdrywt	1.5	5.0	EPA 8260	03/27/95	DR	
4-Methyl-2-pentanone	<4.5	µg/kgdrywt	1.5	3.0	EPA 8260	03/27/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0425-3
Report Date: 04/10/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPSDDUP	Solid	B. ANDERSEN	03/19/95	03/20/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
2-Hexanone	<6.	µg/kgdrywt	1.5	4.0	EPA 8260	03/27/95	DR	
Tetrachloroethene	<3.	µg/kgdrywt	1.5	2.0	EPA 8260	03/27/95	DR	
1,1,2,2-Tetrachloroethane	<7.5	µg/kgdrywt	1.5	5.0	EPA 8260	03/27/95	DR	
Toluene	<3.	µg/kgdrywt	1.5	2.0	EPA 8260	03/27/95	DR	
Chlorobenzene	<7.5	µg/kgdrywt	1.5	5.0	EPA 8260	03/27/95	DR	
Ethylbenzene	<3.	µg/kgdrywt	1.5	2.0	EPA 8260	03/27/95	DR	
Styrene	<3.	µg/kgdrywt	1.5	2.0	EPA 8260	03/27/95	DR	
Total Xylenes	<3.	µg/kgdrywt	1.5	2.0	EPA 8260	03/27/95	DR	
Dibromofluoromethane (Surr.)	103.	%	1.5		EPA 8260	03/27/95	DR	
Toluene-d8 (Surr.)	89.	%	1.5		EPA 8260	03/27/95	DR	
p-Bromofluorobenzene (Surr.)	70.	%	1.5		EPA 8260	03/27/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

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VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.:	EPSD001
Matrix (soil/water)	Soil	Lab Sample ID:	EPSDDUP
Sample wt/vol:	5 (g/ml) g	Lab File ID:	Y7950
Level: (low/med)	low	Date Received:	3/20/95
% Moisture: not dec.	34	Date Analyzed:	3/27/95
GC Column:	RTX-624 ID: 0.53	Dilution Factor:	1.0
Soil Extract Volume:	0 (ul)	Soil Aliquot Volume:	0 (ul)

Number of TIC's Found: 1

CONCENTRATION UNITS (ug/L or ug/KG) ug/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	124389	Carbon Dioxide	2.14	260	JNB
2.					
3.					
4.					
5.					
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pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0425-3
Report Date: 04/10/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPSDDUP	Solid	B. ANDERSEN	03/19/95	03/20/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Volatile Organics by EPA 8260								1,2
Reanalysis								
Chloromethane	<7.5	µg/kgdrywt	1.5	5.0	EPA 8260	03/31/95	DR	
Bromomethane	<7.5	µg/kgdrywt	1.5	5.0	EPA 8260	03/31/95	DR	
Vinyl chloride	<3.	µg/kgdrywt	1.5	2.0	EPA 8260	03/31/95	DR	
Chloroethane	<3.	µg/kgdrywt	1.5	2.0	EPA 8260	03/31/95	DR	
Methylene chloride	<4.5	µg/kgdrywt	1.5	3.0	EPA 8260	03/31/95	DR	
Acetone	<7.5	µg/kgdrywt	1.5	5.0	EPA 8260	03/31/95	DR	
Carbon disulfide	<7.5	µg/kgdrywt	1.5	5.0	EPA 8260	03/31/95	DR	
1,1-Dichloroethene	<1.5	µg/kgdrywt	1.5	1.0	EPA 8260	03/31/95	DR	
1,1-Dichloroethane	<3.	µg/kgdrywt	1.5	2.0	EPA 8260	03/31/95	DR	
Total 1,2-Dichloroethene	<3.	µg/kgdrywt	1.5	2.0	EPA 8260	03/31/95	DR	
Chloroform	<7.5	µg/kgdrywt	1.5	5.0	EPA 8260	03/31/95	DR	
1,2-Dichloroethane	<3.	µg/kgdrywt	1.5	2.0	EPA 8260	03/31/95	DR	
2-Butanone	<7.5	µg/kgdrywt	1.5	5.0	EPA 8260	03/31/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) p-Bromofluorobenzene surrogate recovery low.
(2) 1,4-Dichlorobenzene-d4 istd area recovery low.

04/10/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0425-3
Report Date: 04/10/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPSDDUP	Solid	B. ANDERSEN	03/19/95	03/20/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
1,1,1-Trichloroethane	<3.	µg/kgdrywt	1.5	2.0	EPA 8260	03/31/95	DR	
Carbon tetrachloride	<7.5	µg/kgdrywt	1.5	5.0	EPA 8260	03/31/95	DR	
Bromodichloromethane	<7.5	µg/kgdrywt	1.5	5.0	EPA 8260	03/31/95	DR	
1,2-Dichloropropane	<3.8	µg/kgdrywt	1.5	2.5	EPA 8260	03/31/95	DR	
cis-1,3-Dichloropropene	<7.5	µg/kgdrywt	1.5	5.0	EPA 8260	03/31/95	DR	
Trichloroethene	<3.8	µg/kgdrywt	1.5	2.5	EPA 8260	03/31/95	DR	
Dibromochloromethane	<7.5	µg/kgdrywt	1.5	5.0	EPA 8260	03/31/95	DR	
1,1,2-Trichloroethane	<7.5	µg/kgdrywt	1.5	5.0	EPA 8260	03/31/95	DR	
Benzene	<3.	µg/kgdrywt	1.5	2.0	EPA 8260	03/31/95	DR	
trans-1,3-Dichloropropene	<7.5	µg/kgdrywt	1.5	5.0	EPA 8260	03/31/95	DR	
Bromoform	<7.5	µg/kgdrywt	1.5	5.0	EPA 8260	03/31/95	DR	
4-Methyl-2-pentanone	<4.5	µg/kgdrywt	1.5	3.0	EPA 8260	03/31/95	DR	
2-Hexanone	<6.	µg/kgdrywt	1.5	4.0	EPA 8260	03/31/95	DR	
Tetrachloroethene	<3.	µg/kgdrywt	1.5	2.0	EPA 8260	03/31/95	DR	
1,1,2,2-Tetrachloroethane	<7.5	µg/kgdrywt	1.5	5.0	EPA 8260	03/31/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/10/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0425-3
Report Date: 04/10/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPSDDUP	Solid	B. ANDERSEN	03/19/95	03/20/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Toluene	<3.	µg/kgdrywt	1.5	2.0	EPA 8260	03/31/95	DR	
Chlorobenzene	<7.5	µg/kgdrywt	1.5	5.0	EPA 8260	03/31/95	DR	
Ethylbenzene	<3.	µg/kgdrywt	1.5	2.0	EPA 8260	03/31/95	DR	
Styrene	<3.	µg/kgdrywt	1.5	2.0	EPA 8260	03/31/95	DR	
Total Xylenes	<3.	µg/kgdrywt	1.5	2.0	EPA 8260	03/31/95	DR	
Dibromofluoromethane (Surr.)	103.	%	1.5		EPA 8260	03/31/95	DR	
Toluene-d8 (Surr.)	89.	%	1.5		EPA 8260	03/31/95	DR	
p-Bromofluorobenzene (Surr.)	64.	%	1.5		EPA 8260	03/31/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/10/95

LJO/jcbear/kwh/ljo(dw)/sra
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VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.:	EPSD001
Matrix (soil/water)	Soil	Lab Sample ID:	EPSDDUPRE
Sample wt/vol:	5 (g/ml) g	Lab File ID:	Y8072
Level: (low/med)	low	Date Received:	3/20/95
% Moisture: not dec.	34	Date Analyzed:	3/31/95
GC Column:	RTX-624 ID: 0.53	Dilution Factor:	1.0
Soil Extract Volume:	0 (ul)	Soil Aliquot Volume:	0 (ul)

Number of TIC's Found: 1

CONCENTRATION UNITS (ug/L or ug/KG) ug/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	124389	Carbon Dioxide	2.14	190	JNB
2.					
3.					
4.					
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0422-14
Report Date: 04/07/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPRB001	Aqueous	B. ANDERSEN	03/20/95	03/20/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Volatile Organics by EPA 8260								1
Chloromethane	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Vinyl chloride	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Methylene chloride	B7	µg/L	1.0	3.0	EPA 8260	03/29/95	DR	
Acetone	B26	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
1,1-Dichloroethene	<1.	µg/L	1.0	1.0	EPA 8260	03/29/95	DR	
1,1-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Total 1,2-Dichloroethene	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
1,1,1-Trichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) "B" flag denotes detection of this analyte in the laboratory method blank analyzed concurrently with the sample.

04/07/95

LJO/jcbear/ljo(dw)/sra
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0422-14
Report Date: 04/07/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED	DATE RECEIVED
EPRB001	Aqueous	B. ANDERSEN	03/20/95	03/20/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	03/29/95	DR	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Trichloroethene	<2.5	µg/L	1.0	2.5	EPA 8260	03/29/95	DR	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	03/29/95	DR	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	03/29/95	DR	
Tetrachloroethene	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Toluene	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/07/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0422-14
Report Date: 04/07/95
PO No. : 802LSQA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPRB001	Aqueous	B. ANDERSEN	03/20/95	03/20/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Total Xylenes	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Dibromofluoromethane (Surr.)	103.	%	1.0		EPA 8260	03/29/95	DR	
Toluene-d8 (Surr.)	101.	%	1.0		EPA 8260	03/29/95	DR	
p-Bromofluorobenzene (Surr.)	96.	%	1.0		EPA 8260	03/29/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/07/95

LJO/jcbear/ljo(dw)/sra
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1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.:	EPFB001
Matrix (soil/water)	Water	Lab Sample ID:	EPRB001
Sample wt/vol:	5 (g/ml) ml	Lab File ID:	Y7990
Level: (low/med)	low	Date Received:	3/20/95
% Moisture: not dec.	N/A	Date Analyzed:	3/29/95
GC Column:	RTX-624 ID: 0.53	Dilution Factor:	1.0
Soil Extract Volume:	0 (ul)	Soil Aliquot Volume:	0 (ul)

Number of TIC's Found: 2

CONCENTRATION UNITS (ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 124389	Carbon Dioxide	2.18	6	JNB
2. 67630	2-Propanol	5.88	240	JN
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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

PSD001

Lab Name: PACE Inc., NE-NH Contract:

Lab Code: Case No.: BRUNS SAS No.: SDG No.: EPS000

Matrix (soil/water): SOIL Lab Sample ID: 43308-008

Level (low/med): LOW Date Received: 03/22/95

% Solids: 67.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4850			P
7440-36-0	Antimony	1.3	U	N	P
7440-38-2	Arsenic	4.0		*	F
7440-39-3	Barium	23.8			P
7440-41-7	Beryllium	0.27	B		P
7440-43-9	Cadmium	0.21	B		P
7440-70-2	Calcium	752			P
7440-47-3	Chromium	9.2			P
7440-48-4	Cobalt	6.5			P
7440-50-8	Copper	9.3			P
7439-89-6	Iron	8240		*	P
7439-92-1	Lead	22.3		N	F
7439-95-4	Magnesium	1810			P
7439-96-5	Manganese	114			P
7439-97-6	Mercury	0.17			CV
7440-02-0	Nickel	7.4			P
7440-09-7	Potassium	1020			P
7782-49-2	Selenium	0.17	U	W	F
7440-22-4	Silver	0.20	U	N	P
7440-23-5	Sodium	60.3	B		P
7440-28-0	Thallium	0.26	U	W	F
7440-62-2	Vanadium	15.3			P
7440-66-6	Zinc	43.9			P
	Cyanide	0.10	U		AS

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

PSD002

Lab Name: PACE Inc., NE-NH Contract:

Lab Code: Case No.: BRUNS SAS No.: SDG No.: EPS000

Matrix (soil/water): SOIL Lab Sample ID: 43308-007

Level (low/med): LOW Date Received: 03/22/95

% Solids: 53.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3950			P
7440-36-0	Antimony	1.9	U	N	P
7440-38-2	Arsenic	6.5		*	F
7440-39-3	Barium	28.2	B		P
7440-41-7	Beryllium	0.19	B		P
7440-43-9	Cadmium	0.31	B		P
7440-70-2	Calcium	1190			P
7440-47-3	Chromium	6.9			P
7440-48-4	Cobalt	3.3	B		P
7440-50-8	Copper	5.2			P
7439-89-6	Iron	52700		*	P
7439-92-1	Lead	7.6		NS	F
7439-95-4	Magnesium	1360			P
7439-96-5	Manganese	310			P
7439-97-6	Mercury	0.17			CV
7440-02-0	Nickel	4.9	B		P
7440-09-7	Potassium	644	B		P
7782-49-2	Selenium	0.25	B	W	F
7440-22-4	Silver	0.30	U	N	P
7440-23-5	Sodium	79.6	B		P
7440-28-0	Thallium	0.31	U	W	F
7440-62-2	Vanadium	17.4			P
7440-66-6	Zinc	32.3			P
	Cyanide	0.10	U		AS

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

PSD003

Lab Name: PACE Inc., NE-NH Contract:

Lab Code: Case No.: BRUNS SAS No.: SDG No.: EPS000

Matrix (soil/water): SOIL Lab Sample ID: 43308-006

Level (low/med): LOW Date Received: 03/22/95

% Solids: 54.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4130			P
7440-36-0	Antimony	1.6	U	N	P
7440-38-2	Arsenic	4.7		*	F
7440-39-3	Barium	45.5			P
7440-41-7	Beryllium	0.15	B		P
7440-43-9	Cadmium	0.38	B		P
7440-70-2	Calcium	1400			P
7440-47-3	Chromium	4.5			P
7440-48-4	Cobalt	3.1	B		P
7440-50-8	Copper	2.4	B		P
7439-89-6	Iron	69300		*	P
7439-92-1	Lead	5.9		NS	F
7439-95-4	Magnesium	933			P
7439-96-5	Manganese	864			P
7439-97-6	Mercury	0.09			CV
7440-02-0	Nickel	3.9	B		P
7440-09-7	Potassium	406	B		P
7782-49-2	Selenium	0.24	B	W	F
7440-22-4	Silver	0.38	B	N	P
7440-23-5	Sodium	75.5	B		P
7440-28-0	Thallium	0.33	U	W	F
7440-62-2	Vanadium	14.0			P
7440-66-6	Zinc	40.5			P
	Cyanide	0.11	U		AS

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

PSD004

Lab Name: PACE Inc., NE-NH Contract:

Lab Code: Case No.: BRUNS SAS No.: SDG No.: EPS000

Matrix (soil/water): SOIL Lab Sample ID: 43308-005

Level (low/med): LOW Date Received: 03/22/95

% Solids: 58.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4970			P
7440-36-0	Antimony	1.8	U	N	P
7440-38-2	Arsenic	5.2		S*	F
7440-39-3	Barium	40.6			P
7440-41-7	Beryllium	0.39	B		P
7440-43-9	Cadmium	0.42	B		P
7440-70-2	Calcium	1070			P
7440-47-3	Chromium	12.7			P
7440-48-4	Cobalt	5.3	B		P
7440-50-8	Copper	6.9			P
7439-89-6	Iron	23700		*	P
7439-92-1	Lead	17.6		N	F
7439-95-4	Magnesium	1690			P
7439-96-5	Manganese	618			P
7439-97-6	Mercury	0.03	U		CV
7440-02-0	Nickel	8.9			P
7440-09-7	Potassium	790			P
7782-49-2	Selenium	0.26	B	W	F
7440-22-4	Silver	0.28	U	N	P
7440-23-5	Sodium	78.3	B		P
7440-28-0	Thallium	0.32	U		F
7440-62-2	Vanadium	16.7			P
7440-66-6	Zinc	49.9			P
	Cyanide	0.12	U		AS

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

PSD005

Lab Name: PACE Inc., NE-NH Contract:

Lab Code: Case No.: BRUNS SAS No.: SDG No.: EPS000

Matrix (soil/water): SOIL Lab Sample ID: 43308-004

Level (low/med): LOW Date Received: 03/22/95

% Solids: 75.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3880			P
7440-36-0	Antimony	1.4	U	N	P
7440-38-2	Arsenic	2.7		S*	F
7440-39-3	Barium	61.1			P
7440-41-7	Beryllium	0.94			P
7440-43-9	Cadmium	0.16	U		P
7440-70-2	Calcium	750			P
7440-47-3	Chromium	16.7			P
7440-48-4	Cobalt	3.9	B		P
7440-50-8	Copper	5.1			P
7439-89-6	Iron	9910		*	P
7439-92-1	Lead	9.2		N	F
7439-95-4	Magnesium	1500			P
7439-96-5	Manganese	185			P
7439-97-6	Mercury	0.04	U		CV
7440-02-0	Nickel	6.9			P
7440-09-7	Potassium	752			P
7782-49-2	Selenium	0.16	U	W	F
7440-22-4	Silver	0.22	U	N	P
7440-23-5	Sodium	59.9	B		P
7440-28-0	Thallium	0.25	U		F
7440-62-2	Vanadium	11.5			P
7440-66-6	Zinc	33.0			P
	Cyanide	0.09	U		AS

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

PSD006

Lab Name: PACE Inc., NE-NH Contract:

Lab Code: Case No.: BRUNS SAS No.: SDG No.: EPS000

Matrix (soil/water): SOIL Lab Sample ID: 43308-001

Level (low/med): LOW Date Received: 03/22/95

% Solids: 72.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3730			P
7440-36-0	Antimony	1.4	U	N	P
7440-38-2	Arsenic	11.7		*	F
7440-39-3	Barium	31.5			P
7440-41-7	Beryllium	0.27	B		P
7440-43-9	Cadmium	0.43	B		P
7440-70-2	Calcium	761			P
7440-47-3	Chromium	7.4			P
7440-48-4	Cobalt	3.6	B		P
7440-50-8	Copper	4.7			P
7439-89-6	Iron	13300		*	P
7439-92-1	Lead	7.9		N	F
7439-95-4	Magnesium	1450			P
7439-96-5	Manganese	186			P
7439-97-6	Mercury	0.02	U		CV
7440-02-0	Nickel	6.2			P
7440-09-7	Potassium	708			P
7782-49-2	Selenium	0.15	B	W	F
7440-22-4	Silver	0.22	U	N	P
7440-23-5	Sodium	55.6	B		P
7440-28-0	Thallium	0.18	U		F
7440-62-2	Vanadium	11.3			P
7440-66-6	Zinc	33.2			P
	Cyanide	0.08	U		AS

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

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EPA SAMPLE NO.

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INORGANIC ANALYSIS DATA SHEET

PSD007

Lab Name: PACE Inc., NE-NH Contract:

Lab Code: Case No.: BRUNS SAS No.: SDG No.: EPS000

Matrix (soil/water): SOIL Lab Sample ID: 43308-002

Level (low/med): LOW Date Received: 03/22/95

% Solids: 68.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4880			P
7440-36-0	Antimony	1.5	U	N	P
7440-38-2	Arsenic	5.8		*	F
7440-39-3	Barium	40.7			P
7440-41-7	Beryllium	0.36	B		P
7440-43-9	Cadmium	0.30	B		P
7440-70-2	Calcium	1170			P
7440-47-3	Chromium	10.3			P
7440-48-4	Cobalt	5.2	B		P
7440-50-8	Copper	6.9			P
7439-89-6	Iron	17500		*	P
7439-92-1	Lead	22.1		N	F
7439-95-4	Magnesium	1840			P
7439-96-5	Manganese	467			P
7439-97-6	Mercury	0.04	U		CV
7440-02-0	Nickel	8.2			P
7440-09-7	Potassium	926			P
7782-49-2	Selenium	0.30	B	W	F
7440-22-4	Silver	0.24	U	N	P
7440-23-5	Sodium	95.1	B		P
7440-28-0	Thallium	0.26	U		F
7440-62-2	Vanadium	15.3			P
7440-66-6	Zinc	49.9			P
	Cyanide	0.08	U		AS

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

PSDDUP

Lab Name: PACE Inc., NE-NH Contract:

Lab Code: Case No.: BRUNS SAS No.: SDG No.: EPS000

Matrix (soil/water): SOIL Lab Sample ID: 43308-003

Level (low/med): LOW Date Received: 03/22/95

% Solids: 65.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4690			P
7440-36-0	Antimony	1.6	U	N	P
7440-38-2	Arsenic	5.9		*	F
7440-39-3	Barium	42.5			P
7440-41-7	Beryllium	0.35	B		P
7440-43-9	Cadmium	0.33	B		P
7440-70-2	Calcium	1080			P
7440-47-3	Chromium	9.6			P
7440-48-4	Cobalt	5.5	B		P
7440-50-8	Copper	6.6			P
7439-89-6	Iron	18000		*	P
7439-92-1	Lead	22.2		N	F
7439-95-4	Magnesium	1830			P
7439-96-5	Manganese	536			P
7439-97-6	Mercury	0.04	U		CV
7440-02-0	Nickel	8.7			P
7440-09-7	Potassium	937			P
7782-49-2	Selenium	0.22	B	W	F
7440-22-4	Silver	0.25	U	N	P
7440-23-5	Sodium	99.7	B		P
7440-28-0	Thallium	0.29	U		F
7440-62-2	Vanadium	14.6			P
7440-66-6	Zinc	48.1			P
	Cyanide	0.09	U		AS

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

PRB001

Lab Name: PACE Inc., NE-NH Contract:

Lab Code: Case No.: BRUNS SAS No.: SDG No.: EPFB00

Matrix (soil/water): WATER Lab Sample ID: 43306-029

Level (low/med): LOW Date Received: 03/22/95

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	77.6	B		P
7440-36-0	Antimony	11.9	U		P
7440-38-2	Arsenic	1.6	U	W	F
7440-39-3	Barium	0.80	U		P
7440-41-7	Beryllium	0.20	U		P
7440-43-9	Cadmium	1.4	U		P
7440-70-2	Calcium	36.6	B		P
7440-47-3	Chromium	2.0	U		P
7440-48-4	Cobalt	2.4	U		P
7440-50-8	Copper	5.6	U		P
7439-89-6	Iron	15.3	B		P
7439-92-1	Lead	1.3	U		F
7439-95-4	Magnesium	22.8	U		P
7439-96-5	Manganese	1.4	B		P
7439-97-6	Mercury	0.13	B		CV
7440-02-0	Nickel	5.5	U		P
7440-09-7	Potassium	500	U		P
7782-49-2	Selenium	1.3	U	W	F
7440-22-4	Silver	1.9	U		P
7440-23-5	Sodium	128	B		P
7440-28-0	Thallium	2.0	U		F
7440-62-2	Vanadium	3.3	B		P
7440-66-6	Zinc	14.5	B		P
	Cyanide	0.75	U		AS

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

Appendix E.5

Leachate Seep Samples
Sites 1 and 3

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0422-6
Report Date: 04/07/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPSP001	Aqueous	B. ANDERSEN	03/20/95	03/20/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Volatile Organics by EPA 8260								1
Chloromethane	<5.	µg/L	1.0	5.0	EPA 8260	03/28/95	DR	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	03/28/95	DR	
Vinyl chloride	<2.	µg/L	1.0	2.0	EPA 8260	03/28/95	DR	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	03/28/95	DR	
Methylene chloride	<3.	µg/L	1.0	3.0	EPA 8260	03/28/95	DR	
Acetone	17.	µg/L	1.0	5.0	EPA 8260	03/28/95	DR	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	03/28/95	DR	
1,1-Dichloroethene	<1.	µg/L	1.0	1.0	EPA 8260	03/28/95	DR	
1,1-Dichloroethane	2.	µg/L	1.0	2.0	EPA 8260	03/28/95	DR	
Total 1,2-Dichloroethene	<2.	µg/L	1.0	2.0	EPA 8260	03/28/95	DR	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	03/28/95	DR	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	03/28/95	DR	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	03/28/95	DR	
1,1,1-Trichloroethane	8.	µg/L	1.0	2.0	EPA 8260	03/28/95	DR	
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	03/28/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) "J" flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.

04/07/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0422-6
Report Date: 04/07/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED	DATE RECEIVED
EPSP001	Aqueous	B. ANDERSEN	03/20/95	03/20/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	03/28/95	DR	
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	03/28/95	DR	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	03/28/95	DR	
Trichloroethene	J2.	µg/L	1.0	2.5	EPA 8260	03/28/95	DR	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	03/28/95	DR	
1,1,2-Trichloroethane	J2.	µg/L	1.0	5.0	EPA 8260	03/28/95	DR	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	03/28/95	DR	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	03/28/95	DR	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	03/28/95	DR	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	03/28/95	DR	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	03/28/95	DR	
Tetrachloroethene	J1.	µg/L	1.0	2.0	EPA 8260	03/28/95	DR	
1,1,2,2-Tetrachloroethane	87.	µg/L	1.0	5.0	EPA 8260	03/28/95	DR	
Toluene	<2.	µg/L	1.0	2.0	EPA 8260	03/28/95	DR	
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	03/28/95	DR	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	03/28/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0422-6
Report Date: 04/07/95
PO No. : 802LSOA
Project : 29600.47

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED	DATE RECEIVED
EPSP001	Aqueous	B. ANDERSEN	03/20/95	03/20/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	03/28/95	DR	
Total Xylenes	<2.	µg/L	1.0	2.0	EPA 8260	03/28/95	DR	
Dibromofluoromethane (Surr.)	116.	%	1.0		EPA 8260	03/28/95	DR	
Toluene-d8 (Surr.)	102.	%	1.0		EPA 8260	03/28/95	DR	
p-Bromofluorobenzene (Surr.)	97.	%	1.0		EPA 8260	03/28/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

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VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.:	EPFB001
Matrix (soil/water)	Water	Lab Sample ID:	EPSP001
Sample wt/vol:	5 (g/ml) ml	Lab File ID:	Y7978
Level: (low/med)	low	Date Received:	3/20/95
% Moisture: not dec.	N/A	Date Analyzed:	3/28/95
GC Column:	RTX-624 ID: 0.53	Dilution Factor:	1.0
Soil Extract Volume:	0 (ul)	Soil Aliquot Volume:	0 (ul)

Number of TIC's Found: 1

CONCENTRATION UNITS (ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 124389	Carbon Dioxide	2.18	6	JNB
2.				
3.				
4.				
5.				
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0422-5
Report Date: 04/07/95
PO No. : 802LSOA
Project : 29600.47

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPSP002	Aqueous	B. ANDERSEN	03/20/95	03/20/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Volatile Organics by EPA 8260								1
Chloromethane	<5.	µg/L	1.0	5.0	EPA 8260	03/28/95	DR	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	03/28/95	DR	
Vinyl chloride	<2.	µg/L	1.0	2.0	EPA 8260	03/28/95	DR	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	03/28/95	DR	
Methylene chloride	<3.	µg/L	1.0	3.0	EPA 8260	03/28/95	DR	
Acetone	36.	µg/L	1.0	5.0	EPA 8260	03/28/95	DR	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	03/28/95	DR	
1,1-Dichloroethene	<1.	µg/L	1.0	1.0	EPA 8260	03/28/95	DR	
1,1-Dichloroethane	3.	µg/L	1.0	2.0	EPA 8260	03/28/95	DR	
Total 1,2-Dichloroethene	<2.	µg/L	1.0	2.0	EPA 8260	03/28/95	DR	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	03/28/95	DR	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	03/28/95	DR	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	03/28/95	DR	
1,1,1-Trichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	03/28/95	DR	
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	03/28/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) "B" flag denotes detection of this analyte in the laboratory method blank analyzed concurrently with the sample.

04/07/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0422-5
Report Date: 04/07/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED	DATE RECEIVED
EPSP002	Aqueous	B. ANDERSEN	03/20/95	03/20/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	03/28/95	DR	
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	03/28/95	DR	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	03/28/95	DR	
Trichloroethene	<2.5	µg/L	1.0	2.5	EPA 8260	03/28/95	DR	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	03/28/95	DR	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	03/28/95	DR	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	03/28/95	DR	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	03/28/95	DR	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	03/28/95	DR	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	03/28/95	DR	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	03/28/95	DR	
Tetrachloroethene	<2.	µg/L	1.0	2.0	EPA 8260	03/28/95	DR	
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	03/28/95	DR	
Toluene	<2.	µg/L	1.0	2.0	EPA 8260	03/28/95	DR	
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	03/28/95	DR	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	03/28/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/07/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0422-5
Report Date: 04/07/95
PO No. : 802LSQA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED	DATE RECEIVED
EPSP002	Aqueous	B. ANDERSEN	03/20/95	03/20/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	03/28/95	DR	
Total Xylenes	<2.	µg/L	1.0	2.0	EPA 8260	03/28/95	DR	
Dibromofluoromethane (Surr.)	112.	%	1.0		EPA 8260	03/28/95	DR	
Toluene-d8 (Surr.)	101.	%	1.0		EPA 8260	03/28/95	DR	
p-Bromofluorobenzene (Surr.)	102.	%	1.0		EPA 8260	03/28/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/07/95

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.:	EPFB001
Matrix (soil/water)	Water	Lab Sample ID:	EPSP002
Sample wt/vol:	5 (g/ml) ml	Lab File ID:	Y7977
Level: (low/med)	low	Date Received:	3/20/95
% Moisture: not dec.	N/A	Date Analyzed:	3/28/95
GC Column:	RTX-624 ID: 0.53	Dilution Factor:	1.0
Soil Extract Volume:	0 (ul)	Soil Aliquot Volume:	0 (ul)

Number of TIC's Found: 9

CONCENTRATION UNITS (ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 124389	Carbon Dioxide	2.15	7	JNB
2.	Alkane	21.64	7	J
3.	Alkane	23.34	11	J
4.	Alkane	23.58	6	J
5.	Alkane	24.35	5	J
6.	Alkane	24.51	8	J
7.	Alkane	24.93	19	J
8.	Alkane	26.11	8	J
9.	Alkane	26.42	24	J
10.				
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pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0422-12
Report Date: 04/07/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPSP003	Aqueous	B. ANDERSEN	03/19/95	03/20/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Volatile Organics by EPA 8260								1,2
Chloromethane	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Vinyl chloride	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Methylene chloride	B4	µg/L	1.0	3.0	EPA 8260	03/29/95	DR	
Acetone	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
1,1-Dichloroethene	<1.	µg/L	1.0	1.0	EPA 8260	03/29/95	DR	
1,1-Dichloroethane	5.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Total 1,2-Dichloroethene	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
1,2-Dichloroethane	3.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
1,1,1-Trichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) "J" flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.
(2) "B" flag denotes detection of this analyte in the laboratory method blank analyzed concurrently with the sample.

04/07/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0422-12
Report Date: 04/07/95
PO No. : 802LSQA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPSP003	Aqueous	B. ANDERSEN	03/19/95	03/20/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	03/29/95	DR	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Trichloroethene	<2.5	µg/L	1.0	2.5	EPA 8260	03/29/95	DR	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Benzene	J1.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	03/29/95	DR	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	03/29/95	DR	
Tetrachloroethene	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Toluene	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/07/95

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pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0422-12
Report Date: 04/07/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPSP003	Aqueous	B. ANDERSEN	03/19/95	03/20/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chlorobenzene	7.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Ethylbenzene	5.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Total Xylenes	6.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Dibromofluoromethane (Surr.)	101.	%	1.0		EPA 8260	03/29/95	DR	
Toluene-d8 (Surr.)	101.	%	1.0		EPA 8260	03/29/95	DR	
p-Bromofluorobenzene (Surr.)	98.	%	1.0		EPA 8260	03/29/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/07/95

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VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.:	EPFB001
Matrix (soil/water)	Water	Lab Sample ID:	EPSP003
Sample wt/vol:	5 (g/ml) ml	Lab File ID:	Y7988
Level: (low/med)	low	Date Received:	3/20/95
% Moisture: not dec.	N/A	Date Analyzed:	3/29/95
GC Column:	RTX-624 ID: 0.53	Dilution Factor:	1.0
Soil Extract Volume:	0 (ul)	Soil Aliquot Volume:	0 (ul)

Number of TIC's Found: 1

CONCENTRATION UNITS (ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 124389	Carbon Dioxide	2.17	17	JNB
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0422-11
Report Date: 04/07/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
WPSP004	Aqueous	B. ANDERSEN	03/19/95	03/20/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Volatile Organics by EPA 8260								1
Chloromethane	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Vinyl chloride	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Methylene chloride	B5	µg/L	1.0	3.0	EPA 8260	03/29/95	DR	
Acetone	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
1,1-Dichloroethene	<1.	µg/L	1.0	1.0	EPA 8260	03/29/95	DR	
1,1-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Total 1,2-Dichloroethene	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
1,1,1-Trichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) "B" flag denotes detection of this analyte in the laboratory method blank analyzed concurrently with the sample.

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0422-11
Report Date: 04/07/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
E WPSP004 MW040395	Aqueous	B. ANDERSEN	03/19/95	03/20/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	03/29/95	DR	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Trichloroethene	<2.5	µg/L	1.0	2.5	EPA 8260	03/29/95	DR	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	03/29/95	DR	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	03/29/95	DR	
Tetrachloroethene	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Toluene	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0422-11
Report Date: 04/07/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED	DATE RECEIVED
WPSP004	Aqueous	B. ANDERSEN	03/19/95	03/20/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Total Xylenes	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Dibromofluoromethane (Surr.)	102.	%	1.0		EPA 8260	03/29/95	DR	
Toluene-d8 (Surr.)	100.	%	1.0		EPA 8260	03/29/95	DR	
p-Bromofluorobenzene (Surr.)	96.	%	1.0		EPA 8260	03/29/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/07/95

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VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.:	EPFB001
Matrix (soil/water)	Water	Lab Sample ID:	~~W~~PSP004 (E)
Sample wt/vol:	5 (g/ml) ml	Lab File ID:	Y7999 (~~X0010795~~)
Level: (low/med)	low	Date Received:	3/20/95
% Moisture: not dec.	N/A	Date Analyzed:	3/29/95
GC Column:	RTX-624 ID: 0.53	Dilution Factor:	1.0
Soil Extract Volume:	0 (ul)	Soil Aliquot Volume:	0 (ul)

Number of TIC's Found: 1

CONCENTRATION UNITS (ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 124389	Carbon Dioxide	2.18	10	JNB
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0422-9
Report Date: 04/07/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED	DATE RECEIVED
EPSP005	Aqueous	B. ANDERSEN	03/19/95	03/20/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Volatile Organics by EPA 8260								1
Chloromethane	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Vinyl chloride	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Methylene chloride	B6	µg/L	1.0	3.0	EPA 8260	03/29/95	DR	
Acetone	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
1,1-Dichloroethene	<1.	µg/L	1.0	1.0	EPA 8260	03/29/95	DR	
1,1-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Total 1,2-Dichloroethene	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
1,1,1-Trichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) "B" flag denotes detection of this analyte in the laboratory method blank analyzed concurrently with the sample.

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0422-9
Report Date: 04/07/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED	DATE RECEIVED
EPSP005	Aqueous	B. ANDERSEN	03/19/95	03/20/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	03/29/95	DR	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Trichloroethene	<2.5	µg/L	1.0	2.5	EPA 8260	03/29/95	DR	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	03/29/95	DR	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	03/29/95	DR	
Tetrachloroethene	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Toluene	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0422-9
Report Date: 04/07/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPSP005	Aqueous	B. ANDERSEN	03/19/95	03/20/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Total Xylenes	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Dibromofluoromethane (Surr.)	107.	%	1.0		EPA 8260	03/29/95	DR	
Toluene-d8 (Surr.)	101.	%	1.0		EPA 8260	03/29/95	DR	
p-Bromofluorobenzene (Surr.)	100.	%	1.0		EPA 8260	03/29/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.: EPFB001	
Matrix (soil/water)	Water	Lab Sample ID:	EPSP005
Sample wt/vol:	5 (g/ml) ml	Lab File ID:	Y7997
Level: (low/med)	low	Date Received:	3/20/95
% Moisture: not dec.	N/A	Date Analyzed:	3/29/95
GC Column:	RTX-624 ID: 0.53	Dilution Factor:	1.0
Soil Extract Volume:	0 (ul)	Soil Aliquot Volume:	0 (ul)

Number of TIC's Found: 1

CONCENTRATION UNITS
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 124389	Carbon Dioxide	2.18	8	JNB
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REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0422-16
Report Date: 04/07/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPTB001	Aqueous	B. ANDERSEN	03/19/95	03/20/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Volatile Organics by EPA 8260								1
Chloromethane	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Vinyl chloride	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Methylene chloride	B4	µg/L	1.0	3.0	EPA 8260	03/29/95	DR	
Acetone	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
1,1-Dichloroethene	<1.	µg/L	1.0	1.0	EPA 8260	03/29/95	DR	
1,1-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Total 1,2-Dichloroethene	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
1,1,1-Trichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0422-16
Report Date: 04/07/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED	DATE RECEIVED
EPTB001	Aqueous	B. ANDERSEN	03/19/95	03/20/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	03/29/95	DR	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Trichloroethene	<2.5	µg/L	1.0	2.5	EPA 8260	03/29/95	DR	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	03/29/95	DR	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	03/29/95	DR	
Tetrachloroethene	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Toluene	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	03/29/95	DR	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

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04/07/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0422-16
Report Date: 04/07/95
PO No. : 802LSOA
Project : 29600.47

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPTB001	Aqueous	B. ANDERSEN	03/19/95	03/20/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Total Xylenes	<2.	µg/L	1.0	2.0	EPA 8260	03/29/95	DR	
Dibromofluoromethane (Surr.)	104.	%	1.0		EPA 8260	03/29/95	DR	
Toluene-d8 (Surr.)	98.	%	1.0		EPA 8260	03/29/95	DR	
p-Bromofluorobenzene (Surr.)	95.	%	1.0		EPA 8260	03/29/95	DR	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

04/07/95

LJO/jcbear/ljo(dw)/sra
LC29WVLW1

Respectfully submitted,
PACE, INC.
Laura J. O'Meara
Laura J. O'Meara
Supervisor, Client Services

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VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.:	EPFB001
Matrix (soil/water)	Water	Lab Sample ID:	EPTB001
Sample wt/vol:	5 (g/ml) ml	Lab File ID:	Y7992
Level: (low/med)	low	Date Received:	3/20/95
% Moisture: not dec.	N/A	Date Analyzed:	3/29/95
GC Column:	RTX-624 ID: 0.53	Dilution Factor:	1.0
Soil Extract Volume:	0 (ul)	Soil Aliquot Volume:	0 (ul)

Number of TIC's Found: 0

CONCENTRATION UNITS (ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
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27.				
28.				
29.				
30.				

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EPA SAMPLE NO.

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INORGANIC ANALYSIS DATA SHEET

PSP001

Lab Name: PACE Inc., NE-NH Contract:

Lab Code: Case No.: BRUNS SAS No.: SDG No.: EPFB00

Matrix (soil/water): WATER Lab Sample ID: 43306-021

Level (low/med): LOW Date Received: 03/22/95

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	15.4	U		P
7440-36-0	Antimony	11.9	U		P
7440-38-2	Arsenic	1.6	U	W	F
7440-39-3	Barium	33.7	B		P
7440-41-7	Beryllium	0.20	U		P
7440-43-9	Cadmium	1.4	U		P
7440-70-2	Calcium	11000			P
7440-47-3	Chromium	2.0	U		P
7440-48-4	Cobalt	2.9	B		P
7440-50-8	Copper	5.6	U		P
7439-89-6	Iron	22700			P
7439-92-1	Lead	1.3	U	W	F
7439-95-4	Magnesium	1570	B		P
7439-96-5	Manganese	2430			P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	5.5	U		P
7440-09-7	Potassium	1910	B		P
7782-49-2	Selenium	1.3	U	W	F
7440-22-4	Silver	1.9	U		P
7440-23-5	Sodium	5640			P
7440-28-0	Thallium	2.0	U		F
7440-62-2	Vanadium	2.5	U		P
7440-66-6	Zinc	12.3	B		P
	Cyanide	0.75	U		AS

Color Before: Clarity Before: Texture:

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Comments:

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EPA SAMPLE NO.

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INORGANIC ANALYSIS DATA SHEET

PSP002

Lab Name: PACE Inc., NE-NH Contract:

Lab Code: Case No.: BRUNS SAS No.: SDG No.: EPFB00

Matrix (soil/water): WATER Lab Sample ID: 43306-020

Level (low/med): LOW Date Received: 03/22/95

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	28.6	B		P
7440-36-0	Antimony	11.9	U		P
7440-38-2	Arsenic	1.6	U	W	F
7440-39-3	Barium	20.2	B		P
7440-41-7	Beryllium	0.20	U		P
7440-43-9	Cadmium	1.4	U		P
7440-70-2	Calcium	13500			P
7440-47-3	Chromium	2.0	U		P
7440-48-4	Cobalt	2.4	U		P
7440-50-8	Copper	5.6	U		P
7439-89-6	Iron	31000			P
7439-92-1	Lead	1.3	U	W	F
7439-95-4	Magnesium	2130	B		P
7439-96-5	Manganese	1140			P
7439-97-6	Mercury	0.18	B		CV
7440-02-0	Nickel	5.5	U		P
7440-09-7	Potassium	3360	B		P
7782-49-2	Selenium	1.3	U	W	F
7440-22-4	Silver	1.9	U		P
7440-23-5	Sodium	5700			P
7440-28-0	Thallium	2.0	U		F
7440-62-2	Vanadium	3.4	B		P
7440-66-6	Zinc	12.7	B		P
	Cyanide	0.75	U		AS

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INORGANIC ANALYSIS DATA SHEET

PSP003

Lab Name: PACE Inc., NE-NH Contract:

Lab Code: Case No.: BRUNS SAS No.: SDG No.: EPFB00

Matrix (soil/water): WATER Lab Sample ID: 43306-027

Level (low/med): LOW Date Received: 03/22/95

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	15.4	U		P
7440-36-0	Antimony	11.9	U		P
7440-38-2	Arsenic	28.4			F
7440-39-3	Barium	20.8	B		P
7440-41-7	Beryllium	0.20	U		P
7440-43-9	Cadmium	1.4	U		P
7440-70-2	Calcium	40300			P
7440-47-3	Chromium	2.0	U		P
7440-48-4	Cobalt	3.6	B		P
7440-50-8	Copper	5.6	U		P
7439-89-6	Iron	55700			P
7439-92-1	Lead	1.3	U	W	F
7439-95-4	Magnesium	7100			P
7439-96-5	Manganese	3440			P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	5.5	U		P
7440-09-7	Potassium	3580	B		P
7782-49-2	Selenium	1.3	U	W	F
7440-22-4	Silver	1.9	U		P
7440-23-5	Sodium	24500			P
7440-28-0	Thallium	2.0	U		F
7440-62-2	Vanadium	4.7	B		P
7440-66-6	Zinc	15.9	B		P
	Cyanide	0.75	U		AS

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Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

PSP004

Lab Name: PACE Inc., NE-NH Contract:

Lab Code: Case No.: BRUNS SAS No.: SDG No.: EPFB00

Matrix (soil/water): WATER Lab Sample ID: 43306-026

Level (low/med): LOW Date Received: 03/22/95

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	1380			P
7440-36-0	Antimony	11.9	U		P
7440-38-2	Arsenic	29.6			F
7440-39-3	Barium	208			P
7440-41-7	Beryllium	0.20	U		P
7440-43-9	Cadmium	1.4	U		P
7440-70-2	Calcium	31500			P
7440-47-3	Chromium	2.0	U		P
7440-48-4	Cobalt	12.6	B		P
7440-50-8	Copper	5.6	U		P
7439-89-6	Iron	209000			P
7439-92-1	Lead	6.2		+	F
7439-95-4	Magnesium	2390	B		P
7439-96-5	Manganese	532			P
7439-97-6	Mercury	0.45			CV
7440-02-0	Nickel	5.7	B		P
7440-09-7	Potassium	4470	B		P
7782-49-2	Selenium	1.4	B	W	F
7440-22-4	Silver	1.9	U		P
7440-23-5	Sodium	9140			P
7440-28-0	Thallium	8.0	U		F
7440-62-2	Vanadium	30.1	B		P
7440-66-6	Zinc	57.2			P
	Cyanide	1.2	B		AS

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INORGANIC ANALYSIS DATA SHEET

PSP005

Lab Name: PACE Inc., NE-NH Contract:

Lab Code: Case No.: BRUNS SAS No.: SDG No.: EPFB00

Matrix (soil/water): WATER Lab Sample ID: 43306-024

Level (low/med): LOW Date Received: 03/22/95

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3830			P
7440-36-0	Antimony	119	U		P
7440-38-2	Arsenic	653			F
7440-39-3	Barium	210	B		P
7440-41-7	Beryllium	2.0	U		P
7440-43-9	Cadmium	14.0	U		P
7440-70-2	Calcium	68100			P
7440-47-3	Chromium	20.0	U		P
7440-48-4	Cobalt	53.0	B		P
7440-50-8	Copper	56.0	U		P
7439-89-6	Iron	1080000			P
7439-92-1	Lead	13.8		S	F
7439-95-4	Magnesium	17400	B		P
7439-96-5	Manganese	5040			P
7439-97-6	Mercury	0.11	B		CV
7440-02-0	Nickel	55.0	U		P
7440-09-7	Potassium	7540	B		P
7782-49-2	Selenium	1.3	U	W	F
7440-22-4	Silver	19.0	U		P
7440-23-5	Sodium	18500	B		P
7440-28-0	Thallium	8.0	U	W	F
7440-62-2	Vanadium	113	B		P
7440-66-6	Zinc	294			P
	Cyanide	1.3	B		AS

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