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Final Report

Quarterly Monitoring Event 2 - May 1995
Site 9: Neptune Drive Disposal Site
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

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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.

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August 1995

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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 Site 9 at Naval Air Station, Brunswick, Maine. Naval Air Station (NAS) Brunswick is located south of the Androscoggin River between Brunswick and Bath, Maine (Figure 1). The layout of Site 9 is provided in 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 Site 9, the Navy is required to perform long-term monitoring, maintenance, and corrective measures as part of the long-term remedial actions required by the Interim Groundwater Record of Decision dated September 1994 (ABB Environmental Services [ABB-ES] 1994). A Long-Term Monitoring Plan (LTMP) was established pursuant to the Interim Groundwater Record of Decision (ABB-ES 1995). Approval of the LTMP was received from the EPA and State of Maine Department of Environmental Protection on 8 March 1995. Approval of the method detection limit study completed for EPA Method 8260 was approved by EPA Region I on 10 May 1995.

The LTMP document, which is comprised of a long-term monitoring program; an addendum to the Quality Assurance Project Plan contained in the LTMP for Building 95, Sites 1 and 3, and Eastern Plume (ABB-ES 1994); and technical review comments, establishes the requirement for monitoring/sampling of ground water, surface water, sediment, and leachate to be conducted on a quarterly basis, along with the implementation of institutional controls to prevent human contact with ground water in the area. Implementation of the monitoring program will enable the Navy to collect data in order to conduct a 5-year review, which is an analysis of newly promulgated or modified federal and state regulations to determine if they are applicable or relevant and appropriate requirements and to determine if they challenge the protectiveness of the imple-mented remedial strategy. It is anticipated that monitoring will continue until a review is completed which suggests that no further action, or an alternate remedial action (i.e., other than natural attenuation), should be selected. These reviews will occur a minimum of once every 5 years.

1.2 BACKGROUND

The Neptune Drive Disposal Site (Site 9) is an area north of Neptune Drive containing a former incinerator and an abandoned ash landfill/dump area, and an area south of Neptune Drive where hazardous materials disposal activities allegedly occurred. The results of previous investigations identified the presence of volatile organic compounds (VOC), semivolatile organic compounds

(SVOC) (including polycyclic aromatic hydrocarbons [PAH]), pesticides, and inorganics in various media. Media impacted by varying contaminants include soil, ground water, surface water, and sediment. No remedial actions have been performed at the site because the investigations previously conducted have not defined a specific source for the impacts. Long-term monitoring will, therefore, be instituted while additional investigations are conducted.

1.3 PROGRAM OBJECTIVES

The objectives of the LTMP are to obtain data necessary to monitor the long-term effectiveness of the remedial action (i.e., natural attenuation) conducted at Site 9. Monitoring and sampling data collected during the performance of long-term monitoring will be used to:

- Establish a baseline for assessing ground-water, surface water, and leachate seeps and sediment quality conditions.
- Assess the potential for adverse environmental impacts by monitoring for evidence of stressed vegetation and additional leachate seeps.
- Evaluate the integrity of the ground-water monitoring well network by inspecting the conditions of well casings and seals and ensuring the wells are labeled and locked.

2. LONG-TERM MONITORING PROGRAM

2.1 MEASUREMENT OF WATER LEVEL ELEVATIONS

Water level measurements were obtained on 1 May 1995 at the 13 ground-water monitoring wells indicated in Table 1. The locations of the wells are provided in Figure 2. Well gauging was conducted over a several-hour period for purposes of assessing water table elevation. Upon opening each well, 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 a Slope Indicator Model 51453 water level indicator, capable of measuring depth to water to an accuracy of 0.01 ft. Well gauging was completed by lowering the electronic water level sensing probe down the well and measuring depth to water 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 17-18 May 1995, in accordance with the general methodologies established in the LTMP (ABB-ES 1994). Previously installed dedicated Grundfos Redi-Flo2 low-flow stainless steel and Teflon® submersible pumping systems were utilized for sample collection. Ground-water samples were collected from 11 wells during the May 1995 sampling event using the low flow sampling technique. Table 1 provides a summary of the wells included within the ground-water sampling program. Appendix A provides a detailed summary of the protocol followed during the May 1995 sampling event. Figure 3 provides a schematic of a typical dedicated submersible pump assembly installed in a monitoring well.

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. Water quality indicator parameters were measured using a Horiba Model U-10 multiparameter water quality meter calibrated according to the manufacturer's instructions. Stabilization of water quality indicator parameters is observed when measurements agree within approximately 10 percent on three successive readings. This method can be utilized for all water quality parameters, including turbidity. The Quality Assurance Project Plan contained within the LTMP (ABB-ES 1994) also defines stabilization for turbidity as the point at which turbidity is reduced to below 10 nephelometric turbidity units (NTU). This protocol was impeded by slow recharging monitoring wells. Slowly recharging wells were purged at the lowest flow rate obtainable with the submersible pump which, in some instances, was not less than 0.5 L/minute. All 11 wells reached equilibrium of the water quality indicator parameters prior to sampling.

All 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. Five of 11 ground-water samples (Table 1) were also collected for analysis of Target Analyte List (TAL) elements by atomic adsorption and inductively coupled plasma for metals, and by EPA Method 9010 for cyanide. Samples were analyzed by Pace Incorporated of Westbrook, Maine.

2.3 SURFACE WATER, SEDIMENT, AND LEACHATE SEEP/SEDIMENT SAMPLING AND ANALYSIS

The surface water, sediment, leachate sediment and seep sampling program at Site 9 was performed on 17 May 1995, in accordance with the general methodologies established in the LTMP (ABB-ES 1994). Surface water and sediment samples were collected from 7 stations located along the streams south of Site 9. The leachate seep and sediment samples were collected at the foot of the former drain located south of Site 9 (Figure 2). The locations of these sample stations are marked with orange-flagged, steel fence posts, which were driven into the unconsolidated sediment. Table 1 provides a summary of the stations included in the surface water, sediment, and leachate seep/sediment sampling program. Appendix A provides a detailed summary of the protocols followed during the May 1995 sampling event.

All 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. Leachate seep and sediment samples were also collected for analysis of TAL elements by atomic adsorption and inductively coupled plasma for metals, and by EPA 9010 for cyanide. Five of 7 sediment samples (Table 1) were further analyzed for the presence of TCL SVOC by EPA Method 8270. Samples were analyzed by Pace Incorporated.

2.4 VISUAL INSPECTION

Site inspection activities were completed on 1 May 1995 by a civil engineer in accordance with the LTMP (ABB-ES 1994). Site inspection activities included the following:

- Inspection of the ground surface for evidence of stressed vegetation.
- Inspection and maintenance of the site ground-water monitoring wells.

The results of the site inspection indicated no evidence of stressed vegetation in the vicinity of the site. Iron staining was observed in the vicinity of MW-NASB-071 and leachate sample station LT-901, and along the southern unnamed creek from the point of exit from the drain to the confluence with the northern unnamed stream. No physical evidence of tampering of site wells was evident, and all wells except one were observed to be locked (MW-NASB-069 was observed to have a broken latch). Additionally, 5 of the 13 wells were not labeled, including MW-NASB-077 through MW-NASB-081. No other observations were noted.

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 of the aqueous and sediment sampling program, as outlined in the Quality Assurance Project Plan associated with the LTMP (ABB-ES 1995). The data obtained during the May 1995 sampling event were determined to be of sufficient quality to be used to evaluate the long-term effectiveness of the remedial action (i.e., natural attenuation) by establishing a baseline on ground-water, surface water, sediment, and seep quality.

To meet the data quality objectives, chain-of-custody, sampling handling practices, and documentation were maintained in the field in accordance with the LTMP (ABB-ES 1995). Sample data were noted both in field logbooks and on the field record forms contained in 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 were collected by obtaining an equal volume of sample into two sets of sample containers. Sediment field duplicates were prepared by homogenizing, or mixing, a large portion of a sample and placing equal amounts of a sample into two sets of containers (except for analysis of VOC, in which case grab samples were taken). Field duplicates were 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).

- **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

Pace Incorporated provided data packages consisting of Level III (as defined by EPA data quality objectives 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 Pace Incorporated for VOC analyses are similar in content.

As required by the LTMP (ABB-ES 1995), review of laboratory data was performed on selected quality control parameters to evaluate precision, accuracy, and completeness and data quality objective requirements. The following parameters were evaluated in each data deliverable package:

- Chain-of-custody documentation
- Sample holding times
- Laboratory method, trip, source water, 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 general compliance with the QAPP contained in the LTMP (ABB-ES 1994).

4. WATER LEVEL GAUGING PROGRAM RESULTS

Ground-water potentiometric elevations measured on 1 May 1995 during the second quarterly monitoring event at Site 9 are provided in Table 2. The Field Record of Well Gauging form completed during the well gauging event is provided in Appendix B. All 13 site wells were gauged on 1 May 1995 in accordance with the LTMP (ABB-ES 1995). Depth to ground water at Site 9 ranged from 2.48 ft below top of well riser (MW-NASB-071) to 23.87 ft below top of well riser (MW-NASB-077). Well locations are provided in Figure 2.

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 1995). The results of water quality indicator parameter monitoring at the time samples were collected are summarized in Tables 3 and 4 for ground-water and surface water samples, respectively.

In general, the pH and turbidity of ground water were fairly consistent across Site 9, regardless of the screened depth at which samples were collected. Ground-water pH ranged from 5.35 units (MW-NASB-078) to 6.91 units (MW-NASB-079 and MW-NASB-080), with pH measurements averaging 6.27 units. Turbidity measured in ground water purged at Site 9 ranged from 0 NTU (MW-NASB-069, MW-NASB-075, MW-NASB-076, and MW-NASB-080) to 12 NTU (MW-NASB-077). With the exception of MW-NASB-071 and MW-NASB-077, turbidity did not exceed 10 NTU in any other wells. As anticipated due to the varying depths from which the wells were sampled, temperature, conductivity, and dissolved oxygen varied moderately (Table 3).

Surface water and leachate seep sample pH measurements ranged from 6.35 units (SW-922) to 6.93 units (SW-012). Turbidity measurements in surface water samples were found consistently below 10 NTU at all locations, and ranged from 0 NTU (SW-010, SW-915, and SW-919) to 1 NTU (SW-911, SW-912, and SW-922). Turbidity of the leachate seep (LT-901) was recorded at 349 NTU. Temperature, conductivity, and dissolved oxygen measurements at surface water sampling stations along the unnamed streams were observed to be fairly consistent across the site (Table 4).

5.2 GROUND WATER

Table 5 provides a summary of the VOC and TAL elements reported in ground-water samples collected at Site 9. Appendix D contains the summary tables for the analyses performed. No tentatively identified compounds were reported in ground-water samples. Data generated as a result of the second quarterly sampling event indicate that 11 VOC were detected at reportable concentrations in the samples. Methylene chloride was detected in 10 of 11 ground-water samples; however, this compound was also detected in the associated method blanks. Acetone was reported at a low concentration in 4 of 11 ground-water samples and the trip blank at concentrations ranging from 1J μg/L (MW-NASB-072) to 8 μg/L (MW-NASB-080). However, this compound was also reported in the associated method blank. Low concentrations of 4-methyl 2-pentanone and 2-hexanone were detected in 1 of 11 ground-water samples (MW-NASB-079). Both compounds were also detected in the associated method blank. Methylene chloride, acetone, 4-methyl 2-pentanone, and 2-hexanone are, therefore, considered laboratory artifacts and not representative of ground-water quality.

With the exception of these 4 suspected laboratory artifacts, VOC were reported in 6 of 11 monitoring wells sampled during the May 1995 sampling event. No reportable concentrations of VOC were detected in MW-NASB-071, MW-NASB-076, MW-NASB-077, MW-NASB-078, and MW-NASB-081. Detected VOC in remaining samples ranged from a single compound (MW-NASB-069) to 4 VOC (MW-NASB-075).

Other VOC reported in ground-water samples include the following:

- Total 1,2-dichloroethene in 4 of 11 samples at concentrations ranging from 1J μg/L (MW-NASB-072 and MW-NASB-080) to 6 μg/L (MW-NASB-074). The Federal Maximum Contaminant Level and the State Maximum Exposure Guideline are both 70 μg/L.

- Vinyl chloride in 5 of 11 samples at concentrations ranging from 1J μg/L (MW-NASB-069 and MW-NASB-074) to 5 μg/L (MW-NASB-075). The Federal Maximum Contaminant Level for vinyl chloride is 2 μg/L, and the State Maximum Exposure Guideline is 0.15 μg/L.

- 1,1-dichloroethane in 4 of 11 samples at concentrations ranging from 1J μg/L (MW-NASB-072, MW-NASB-075, and MW-NASB-079) to 2J μg/L (MW-NASB-080). The State Maximum Exposure Guideline and the Federal Maximum Contaminant Level are both 5 μg/L.

The 4 remaining detected VOC include carbon disulfide, 2-butanone, toluene, and trichloroethene, each reported at trace concentrations of 1J μg/L.

TAL elements were reported in all 5 of the ground-water samples collected for these analyses at Site 9 (Table 5). MW-NASB-069 and MW-NASB-074 through MW-NASB-078 do not require analysis of TAL elements as part of this LTMP. Analytes not detected in the ground-water samples included antimony, beryllium, cobalt, mercury, silver, and thallium. Two of 3 analytes of concern (cadmium and chromium) were detected in multiple wells at concentrations less than the Federal Maximum Contaminant Levels and State Maximum Exposure Guidelines for these analytes. Manganese concentrations were reported above the Federal Maximum Contaminant Level of 50 μg/L in 4 of 5 wells, and above the State Maximum Exposure Guideline of 200 μg/L in MW-NASB-071.

5.3 SURFACE WATER

Table 6 provides a summary of the VOC detected in surface water samples collected at Site 9; summary tables for the analyses performed are provided in Appendix E. Tentatively identified VOC reported in surface water samples are summarized in Appendix D.

Data generated as a result of the second quarterly sampling event indicate that 10 VOC were detected in the samples. Two of the 10 VOC (methylene chloride and acetone) were detected in the 7 surface water samples and the associated method blanks. Based on the presence of these compounds in associated method blanks, these VOC are considered to be laboratory artifacts and not representative of surface water quality. Four additional compounds (toluene, 2-butanone, 4-methyl 2-pentanone, and 2-hexanone) were reported in method blanks associated with these analyses. The presence of these compounds at trace and low concentrations may represent the surface water quality, or may be attributable to laboratory contamination.

The remaining 5 VOC reported in the surface water samples included fuel related hydrocarbons (benzene, toluene, and total xylenes), 1,1,2,2-tetrachloroethane (SW-922, 2J μg/L) and total 1,2-dichloroethene (SW-010, 1J μg/L). The fuel-related hydrocarbons were reported at low concentrations in 5 of 7 surface water samples, as follows:

- Benzene, which was reported in 2 of 7 surface water samples (SW-915 and SW-919) at a concentration of 1J μg/L.

- Toluene, which was reported in 5 of 7 surface water samples at concentrations ranging from 1J μg/L (SW-011, SW-012, SW-916, and SW-919) to 2 μg/L (SW-915). Toluene was also reported in the trip blank at 38 μg/L, and the method blank corresponding to the trip blank.

- Total xylenes, which were reported in 5 of 7 surface water samples at concentrations ranging from 1J μg/L (SW-011 and SW-916) to 3 μg/L (SW-915).

5.4 SEDIMENT

Table 7 provides a summary of the constituents detected in sediment samples collected at Site 9. Appendix D provides a summary of the tentatively identified compounds reported in sediment samples. The summary tables for the analyses performed are provided in Appendix E. Sample locations are provided in Figure 2.

Data generated as a result of the second quarterly sampling event indicate that 11 VOC were detected in the 7 sediment samples, though 1 of the VOC is a suspected laboratory contaminant. Methylene chloride was detected in the 7 sediment samples, equipment rinse blank, and source water blank; however, this compound was also detected in the associated method blanks. Acetone was reported at low concentrations in 3 sediment samples, and the source water blank. The presence of acetone is a suspected artifact resulting in the incomplete decontamination of non-dedicated sampling equipment.

VOC reported in one or more sediment samples include:

- Total xylenes, which were reported in 2 of 7 sediment samples at concentrations ranging from 1J μg/kg (SED-916) to 2J μg/kg (SED-010). Total xylenes were also reported in the equipment rinse blank at a concentration of 11 μg/L.

- 2-Butanone, which was reported in 1 of 7 sediment samples at a concentration of 22 μg/kg (SED-011).

- Tetrachloroethene, which was reported in 2 of 7 sediment samples at concentrations ranging from 1J μg/kg (SED-916) to 2J μg/kg (SED-922).

- 1,1,2,2-Tetrachloroethene, which was reported in 2 of 7 sediment samples at concentrations ranging from 2J μg/kg (SED-916) to 6J μg/kg (SED-010).

- Vinyl chloride, which was reported in SED-010 at a concentration of 5 μg/kg.

- Total 1,2-dichlorethene, which was reported in SED-010 at a concentration of 16 μg/kg.

- Trichloroethene, which was reported in SED-010 at a concentration of 6 μg/kg.

- Bromoform, which was reported in SED-010 at a concentration of 1J μg/kg.

Analyses completed for the presence of SVOC indicates reportable concentrations of 22 SVOC in the 5 sediment samples (Table 7). Of these, a majority of the compounds (18) were PAH. The highest concentration of PAH was detected at SED-919 (92,703 μg/kg). Concentrations of PAH in the remaining 4 sediment samples ranged from 729 μg/kg (SED-011) to 20,925 μg/kg (SED-010). Carbizol was reported in 3 of 5 samples, ranging in concentration from 300J μg/kg at SED-010 to 440 μg/kg at SED-919. Di-n-butyl phthalate was reported at low concentrations in the 4 for 5 sediment samples and the corresponding method blanks, and is a suspected laboratory artifact. Dibenzofuran was detected in 3 of 5 sediment samples, at concentrations ranging from 94J μg/kg (SED-919) to 190J μg/kg (SED-010). Di-n-octylphalate was reported in 1 of 5 sediment samples (SED-919) at a concentration of 25J μg/kg. Bis(2-ethylhexyl)phalate was reported in the 5 sediment samples and the source water blank; therefore, its presence may represent sediment quality or be attributable to the source water used in the decontamination sequence.

5.5 LEACHATE SEEP AND SEDIMENT

Table 8 provides a summary of the constituents detected in leachate seep and sediment samples collected at Site 9. Tentatively identified compounds (VOC) reported in the leachate seep and sediment samples are contained in Appendix D. Appendix E contains the summary tables for the analyses performed on leachate samples. Sample locations are provided in Figure 2.

Data generated as a result of the second quarterly sampling event indicate that, with the exception of methylene chloride and acetone, 4 VOC were reported in the leachate seep and sediment samples. Methylene chloride was reported at low concentrations in the leachate seep and sediment samples and the equipment rinse blank; this compound was also detected in the associated method blanks and is a common laboratory artifact. Acetone was detected at a low concentration in the seep sample (LT-901), and the equipment rinse blank. However, this compound was also detected in the associated method blank and is a common laboratory contaminant. Acetone was also detected in the sediment sample (LT-901) at a concentration of 180 μg/kg and may represent site conditions or be attributed as a field or laboratory contaminant. The remaining VOC, including 2-butanone, total xylenes, 1,1-dichloroethene, and carbon disulfide were reported at low concentrations in the leachate seep and sediment samples collected at LT-901. No other VOC were detected in the seep and sediment samples.

The equipment rinse blank for this sampling event reported the presence of low concentrations of total xylenes (11 μg/L), toluene (4 μg/L), and ethylbenzene(2J μg/L) though the source of these compounds was not apparent. Total xylenes were reported at trace concentrations in the leachate seep and sediment samples. The presence of this compound may represent site conditions, or may be a field contaminant. Toluene and ethylbenzene were not reported in the leachate seep and sediment samples collected at station LT-901.

TAL elements were reported at varying concentrations in the leachate seep and sediment samples (Table 8). Elevated concentrations of several analytes, including aluminum, calcium, iron, lead, magnesium, manganese, potassium, sodium, and zinc were reported in the leachate seep sample. Concentrations of these same analytes were reported at much lower concentrations in the sediment sample associated with the leachate. Six metals were also reported in the equipment rinse blank associated with the sediment sample at concentrations below the Contract Required Detection Limit; similar concentrations of these same analytes were also reported in the source water used in the decontamination sequence. Cyanide was not reported in the leachate seep and sediment sample.

Three contaminants of concern were reported in the leachate station sediment samples.

- Arsenic, which was reported in sediment sample LT-901 at a concentration of 1.7B mg/kg.

- Chromium, which was reported in sediment sample LT-901 at a concentration of 4.7 mg/kg.

- Lead, which was reported in sediment sample LT-901 at a concentration of 2.8 mg/kg.

6. SUMMARY AND CONCLUSIONS

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

Visual inspection of the site indicated no evidence of stressed vegetation, animal burrowing, or physical tampering at monitoring wells. All wells were found to be locked upon inspection, with the exception of MW-NASB-069, which has a broken lock latch. Iron staining was observed in the vicinity of MW-NASB-071 and leachate sample station LT-901, and along the southern unnamed creek from the point of exit from the drain to the confluence with the northern unnamed stream. Additionally, 5 of the 13 wells were not labeled, including MW-NASB-077 through MW-NASB-081. No other observations were noted.

Depth to water in the 13 site wells ranged from 2.48 ft below top of well riser (MW-NASB-071) to 23.87 ft below top of well riser (MW-NASB-077) during the 1 May 1995 gauging event. Depth to water in remaining wells ranged from 5.67 ft below top of well riser (MW-NASB-073) to 14.07 ft below top of well riser (MW-NASB-075).

Data generated during the second quarterly event indicate that 11 VOC were detected in site ground water. With the exception of low concentrations of methylene chloride, acetone, 4-methyl 2-pentanone, and 2-butanone, which were reported in the associated laboratory method blanks, no VOC were reported in the ground-water samples collected from MW-NASB-071, MW-NASB-076, MW-NASB-077, MW-NASB-078, and MW-NASB-081. Reported concentrations of 5 VOC were low at the remaining 5 wells. Only vinyl chloride exceeded the Federal Maximum Contaminant Levels or State Maximum Exposure Guidelines. Concentrations of vinyl chloride were reported above the State Maximum Exposure Guideline of 0.15 μg/L and Federal Maximum Contaminant Level of 2 μg/L at MW-NASB-072 (3 μg/L), MW-NASB-075 (5 μg/L), and MW-NASB-080 (3 μg/L).

TAL metals were reported in each of the 5 ground-water samples collected for these analyses. Elevated concentrations of calcium, iron, magnesium, manganese, potassium, and sodium were reported in a majority of these samples. Two of 3 analytes of concern (cadmium and chromium) were reported in several wells at concentrations less than the Federal Maximum Contaminant Levels and State Maximum Exposure Guidelines for these analytes. The third analyte of concern, manganese, was reported above the Federal Maximum Contaminant Level of 50 μg/L in 4 of 5 wells, and above the State Maximum Exposure Guideline of 200 μg/L in MW-NASB-071.

VOC analysis of the 7 surface water samples indicated the presence of 10 VOC, though 5 of the VOC (methylene chloride, acetone, 2-butanone, 4-methyl 2-pentanone, and 2-hexanone) were reported in associated method blanks. Three of the 5 remaining VOC (the fuel related

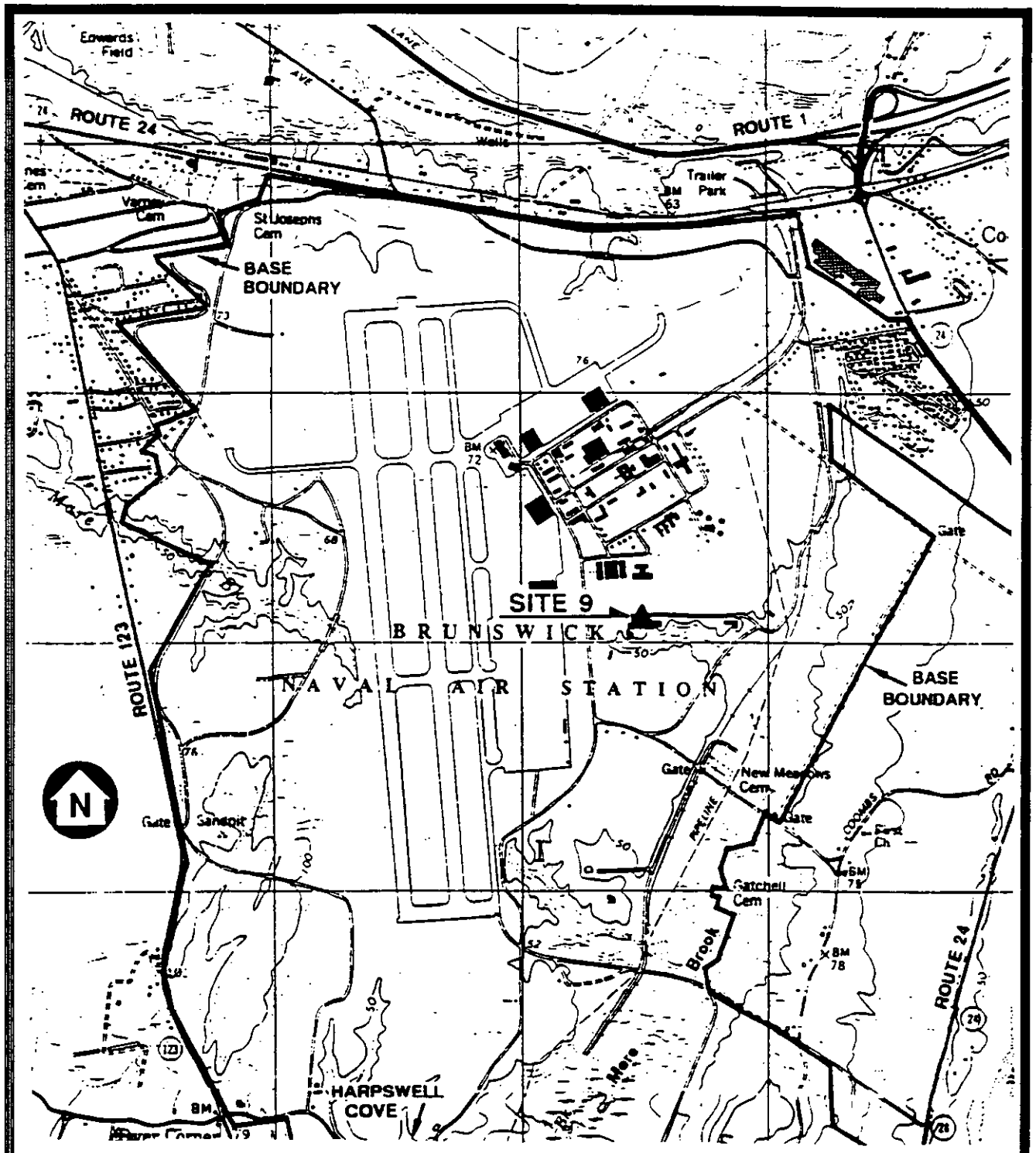
hydrocarbons benzene, toluene, total xylenes) were reported at low concentrations in 5 surface water samples. The remaining 2 VOC, 1,1,2,2-tetrachloroethane and total 1,2-dichloroethene, were reported at low concentrations in SW-922 and SW-010, respectively.

Analysis of sediment samples reported the presence of 10 VOC in the 7 sediment samples. Methylene chloride was reported in all 7 samples, the equipment rinse blank, and the source water blank, but is considered a laboratory artifact based on its presence in corresponding method blanks. Acetone was reported at low concentrations in 3 sediment samples, and is a suspected field contaminant resulting from an incomplete decontamination sequence of sampling equipment. Three other detected VOC (total xylenes, tetrachloroethene, and 1,1,2,2-tetrachloroethene) were reported in three samples at low concentrations ranging from 1J μg/kg to 6J μg/kg. Vinyl chloride, total 1,2-dichloroethene, trichloroethene, and bromoform were reported in 1 of 7 sediment samples (SED-010) at concentrations of 5 μg/kg, 16 μg/kg, 6 μg/kg, and 1J μg/kg, respectively.

Twenty-two SVOC were reported in the 5 sediment samples analyzed, with PAH concentrations reported in the 5 samples at concentrations ranging from 729 μg/kg (SED-010) to 92,703 μg/kg (SED-919). Carbizol was reported in 3 of 5 samples at concentrations ranging from 300J μg/kg (SED-010) to 440 μg/kg (SED-919). Dibenzofuran was reported in 3 of 5 sediment samples at concentrations ranging from 120J μg/kg (SED-012) to 190 μg/kg (SED-010).

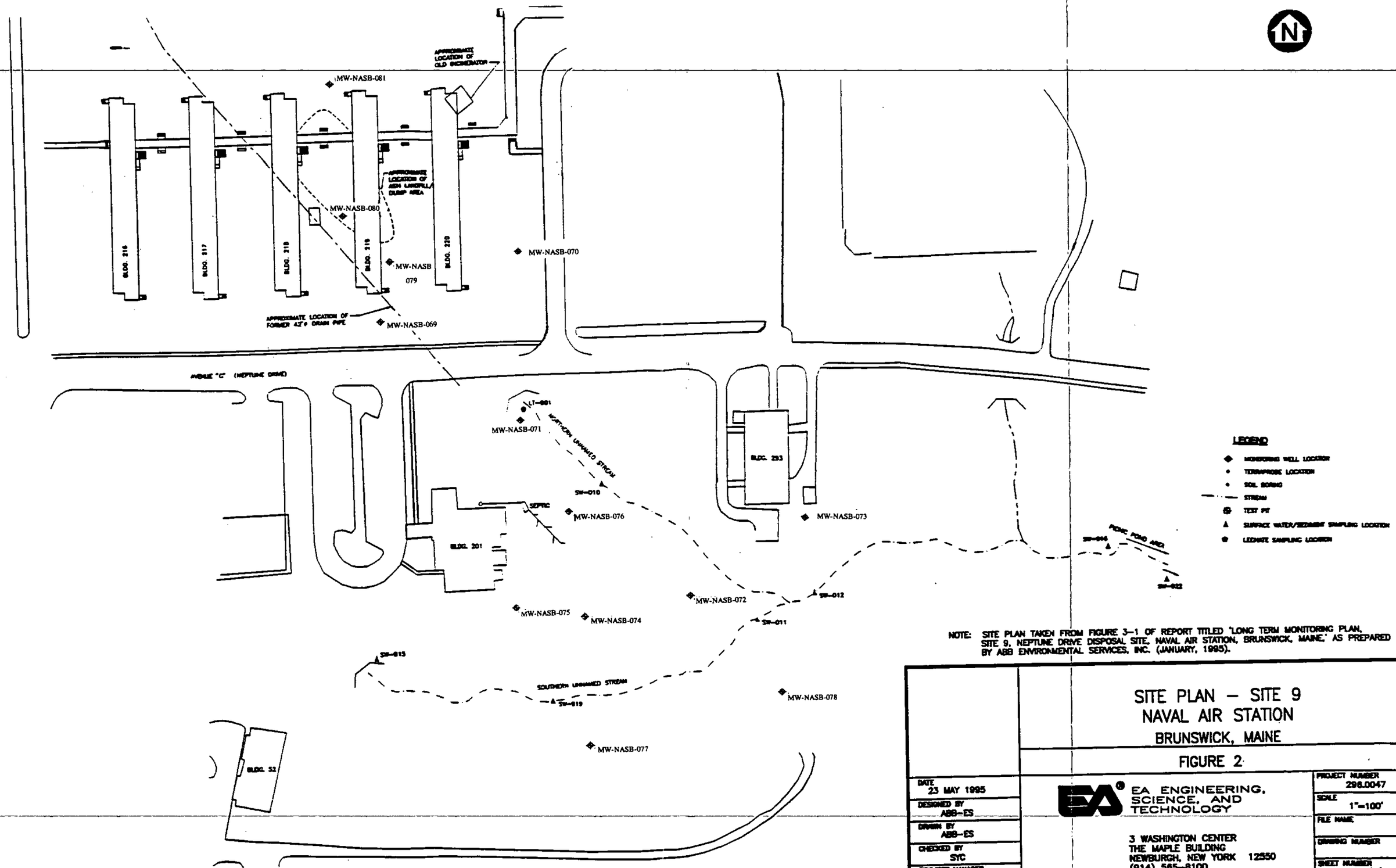
Analysis of the leachate seep and sediment samples confirmed the presence of 6 VOC in these samples, though 2 VOC (methylene chloride and acetone) were attributed to laboratory or field contamination. The remaining VOC, including 2-butanone, total xylenes, 1,1-dichloroethene, and carbon disulfide were reported at low concentrations in the leachate seep and sediment samples collected at LT-901. No other VOC were reported in the seep and sediment samples.

Twenty-one TAL elements were reported in the leachate seep and sediment samples, including elevated concentrations of aluminum, calcium, iron, lead, magnesium, potassium, sodium, and zinc. The three contaminants of concern (arsenic, chromium, and lead) were reported in the samples at concentrations below the Contract Required Detection Limit.



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 Site 9, Naval Air Station, Brunswick, Maine.



NOTE: SITE PLAN TAKEN FROM FIGURE 3-1 OF REPORT TITLED 'LONG TERM MONITORING PLAN, SITE 9, NEPTUNE DRIVE DISPOSAL SITE, NAVAL AIR STATION, BRUNSWICK, MAINE,' AS PREPARED BY ABB ENVIRONMENTAL SERVICES, INC. (JANUARY, 1995).

SITE PLAN – SITE 9
NAVAL AIR STATION
BRUNSWICK, MAINE

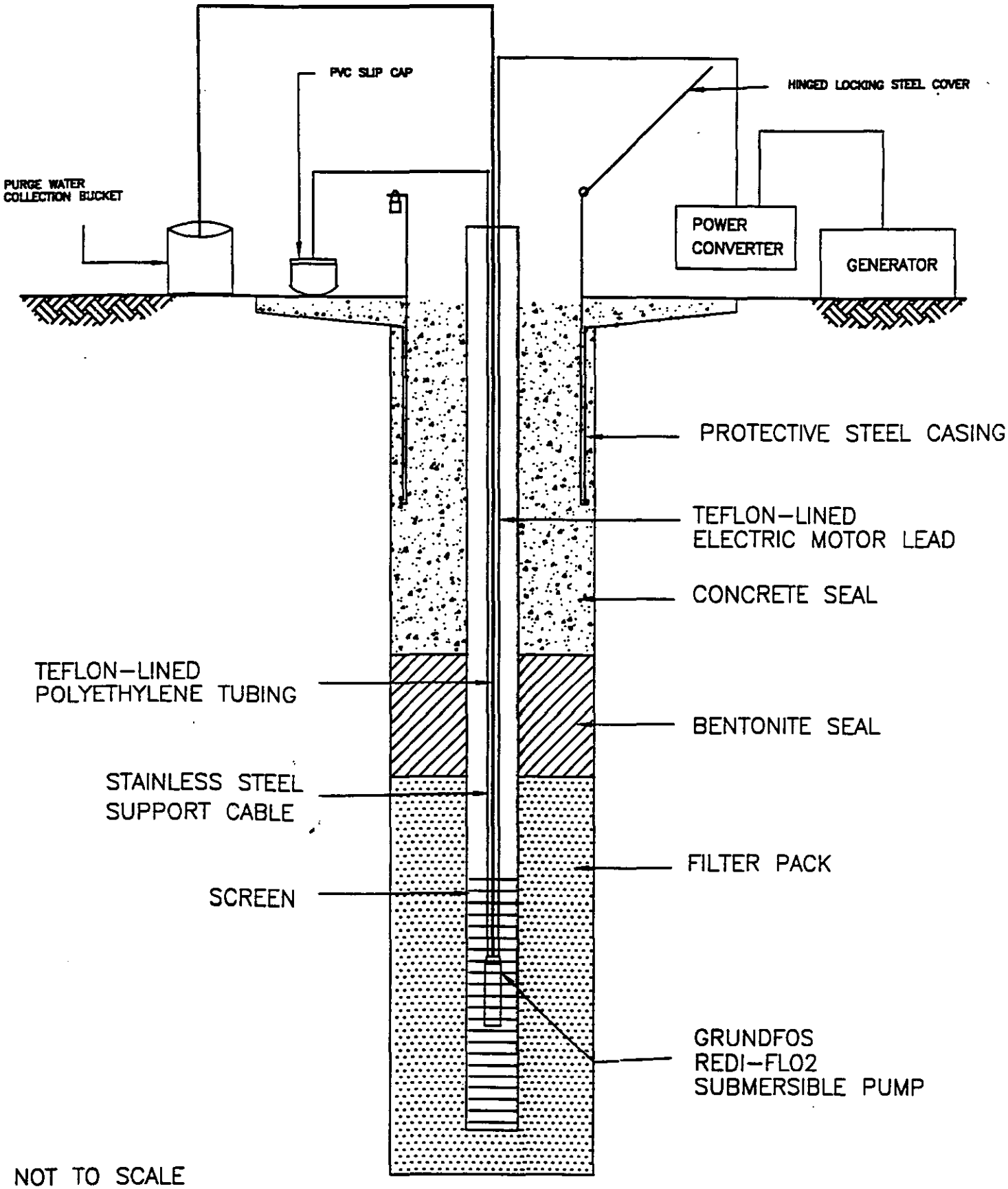
FIGURE 2

DATE	23 MAY 1995
DESIGNED BY	ABB-ES
DRAWN BY	ABB-ES
CHECKED BY	SYC
PROJECT MANAGER	MSB

EA ENGINEERING, SCIENCE, AND TECHNOLOGY

3 WASHINGTON CENTER
THE MAPLE BUILDING
NEWBURGH, NEW YORK 12550
(914) 565-8100

PROJECT NUMBER	298.0047
SCALE	1"=100'
FILE NAME	
DRAWING NUMBER	
SHEET NUMBER	1 of 1



NOT TO SCALE

DWG. FILE No. F:\CAD\ADWELL

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 SITE 9, NAVAL AIR STATION, BRUNSWICK, MAINE

Sample Type/Location	Monitoring Frequency	Sample Parameters			
		TCL VOC	TCL SVOC	TAL Elements	Field Parameters[a]
Monitoring Wells					
MW-901	Quarterly	X			X
MW-902	Quarterly				X[b]
MW-903	Quarterly	X		X	X
MW-904	Quarterly	X		X	X
MW-905	Quarterly				X[b]
MW-906	Quarterly	X			X
MW-907	Quarterly	X			X
MW-908	Quarterly	X			X
MW-909	Annually	X			X
MW-910	Annually	X			X
MW-914	Quarterly	X		X	X
MW-915	Quarterly	X		X	X
MW-916	Quarterly	X		X	X
Leachate[c]					
LT-901	Quarterly	X		X	X
Surface Water					
SW-010	Quarterly	X			X
SW-011	Quarterly	X			X
SW-012	Quarterly	X			X
SW-915	Quarterly	X			X
SW-916	Annually	X			X
SW-919	Quarterly	X			X
SW-922	Quarterly	X			X

(a) Determination of field parameters in accordance with EPA/600/4-79/020 including: pH (Method 150.1), temperature (Method 170.1), specific conductance (Method 180.1), and dissolved oxygen (Method 360.1). Includes water level measurement.
(b) Indicates water level measurement only.
(c) Sampling will occur if sufficient flow is available.

NOTE: SVOC = Semivolatile organic compounds; TAL = Target Analyte List; TCL = Target Compound List; VOCs = Volatile Organic Compounds (EPA SW-846)

Sample Type/Location	Monitoring Frequency	Sample Parameters			
		TCL VOC	TCL SVOC	TAL Elements	Field Parameters[a]
Sediment					
SED-010	Quarterly	X	X		
SED-011	Quarterly	X	X		
SED-012	Quarterly	X	X		
SED-915	Quarterly	X	X		
SED-916	Annually	X			
SED-919	Quarterly	X	X		
SED-922	Quarterly	X			
LT-901	Quarterly	X		X	

TABLE 2 MONITORING WELL GAUGING SUMMARY SITE 9, NAVAL AIR STATION, BRUNSWICK, MAINE

Well Designation	Previous Well Designation	Well Riser Elevation (ft MSL)	Gauging Data (1May 1995)		
			Depth to Well Bottom (ft below Datum)	Depth to Water (ft below Datum)	Water Table Elevation (ft MSL)
Monitoring Wells					
MW-NASB-069	MW-901	57.30	42.42	10.98	46.32
MW-NASB-070	MW-902	58.18	27.32	11.60	46.58
MW-NASB-071	MW-903	46.25	21.54	2.48	43.77
MW-NASB-072	MW-904	49.81	14.63	10.73	39.08
MW-NASB-073	MW-905	51.71	32.12	5.67	46.04
MW-NASB-074	MW-906	51.68	27.12	10.33	41.35
MW-NASB-075	MW-907	54.91	21.22	14.04	40.87
MW-NASB-076	MW-908	52.79	19.94	11.56	41.23
MW-NASB-077	MW-909	No Data	37.29	23.87	----
MW-NASB-078	MW-910	No Data	14.93	10.75[a]	----
MW-NASB-079	MW-914	No Data	18.92	11.69	----
MW-NASB-080	MW-915	No Data	19.04	11.05	----
MW-NASB-081	MW-916	No Data	18.85	10.73	----

(a) Measurement taken from top of steel casing.

NOTE: Dashes (---) indicate elevation not able to be calculated; MSL = Mean sea level.

TABLE 3 SUMMARY OF WATER QUALITY INDICATOR PARAMETERS MEASURED 17-18 MAY 1995 IN GROUND-WATER SAMPLES COLLECTED AT SITE 9, NAVAL AIR STATION, BRUNSWICK, MAINE

Well Designation	Previous Well Designation	pH	Temperature (°C)	Conductivity (μmhos/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
Monitoring Wells						
MW-NASB-069	MW-901	6.21	14.5	299	0.72	0
MW-NASB-071	MW-903	6.01	12.4	269	0.36	10
MW-NASB-072	MW-904	6.29	8.8	145	2.96	1
MW-NASB-074	MW-906	6.41	12.5	261	0.71	1
MW-NASB-075	MW-907	6.36	12.8	329	0.65	0
MW-NASB-076	MW-908	5.94	13.6	305	2.00	0
MW-NASB-077	MW-909	6.15	11.1	34	3.40	12
MW-NASB-078	MW-910	5.35	8.2	49	5.40	1
MW-NASB-079	MW-914	6.91	12.7	209	1.46	6
MW-NASB-080	MW-915	6.91	14.5	406	1.18	0
MW-NASB-081	MW-916	6.42	14.9	508	4.00	3

NOTE: NTU = Nephelometric turbidity unit.

TABLE 4 SUMMARY OF WATER QUALITY INDICATOR PARAMETERS MEASURED 17 MAY 1995 IN SURFACE WATER AND LEACHATE SEEP SAMPLES COLLECTED AT SITE 9, NAVAL AIR STATION, BRUNSWICK, MAINE

Sample Designation	pH	Temperature (°C)	Conductivity (μmhos/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
Surface Water					
SW- 010	6.45	11.0	262	5.13	0
SW-011	6.91	10.1	225	7.26	1
SW-012	6.93	10.1	224	7.36	1
SW-915	6.88	9.5	243	6.65	0
SW-916	6.92	10.5	222	7.58	0
SW-919	6.87	9.9	233	7.62	0
SW-922	6.35	10.1	236	7.28	1
Leachate Seep					
LT-901	6.60	9.9	314	0.07	349

NOTE: NTU = Nephelometric turbidity unit.

TABLE 5 SUMMARY OF ANALYTICAL RESULTS FOR GROUND-WATER SAMPLES COLLECTED 17-18 MAY 1995 AT SITE 9, NAVAL AIR STATION, BRUNSWICK, MAINE

Analyte	CRQL[a]/ CRDL	MW-NASB-069 MW-901	MW-NASB-071 MW-903	MW-NASB-071 MW-903 DUP	MW-NASB-072 MW-904	MW-NASB-074 MW-906	MW-NASB-075 MW-907	MW-NASB-076 MW-908	MW-NASB-077 MW-909	MW-NASB-078 MW-910	MW-NASB-079 MW-914	MW-NASB-080 MW-915	MW-NASB-081 MW-916	TB-001 (5/19/95)	MEG[b]	MCL[c]
VOLATILE ORGANIC COMPOUNDS BY EPA METHOD 8260 (µg/L)																
Methylene chloride	3.0	2JBX	2JBX	1JBX	2JBX	2JBX	2JBX	(<3U)	2JBX	1JBX	2JBX	1JBX	2JBX	3B	---	---
1,1,2,2-	5.0	(<5U)	(<5U)	(<5U)	(<5U)	(<5U)	(<5U)	(<5U)	(<5U)	(<5U)	(<5U)	(<5U)	(<5U)	(<5U)	---	---
Carbon disulfide	5.0	(<5U)	(<5U)	(<5U)	(<5U)	(<5U)	1J	(<5U)	(<5U)	(<5U)	(<5U)	(<5U)	(<5U)	(<5U)	---	---
Total 1,2-	2.0	(<2U)	(<2U)	(<2U)	1J	6	2J	(<2U)	(<2U)	(<2U)	(<2U)	1J	(<2U)	(<2U)	70	70
Vinyl chloride	2.0	1J	(<2U)	(<2U)	3	1J	5	(<2U)	(<2U)	(<2U)	(<2U)	3	(<2U)	(<2U)	0.15	2
1,1-Dichloroethane	2.0	(<2U)	(<2U)	(<2U)	1J	(<2U)	1J	(<2U)	(<2U)	(<2U)	1J	2J	(<2U)	(<2U)	5	5
Acetone	5.0	1JBX	2JBX	2JBX	1JBX	(<5U)	(<5U)	(<5U)	(<5U)	2JBX	2JBX	8BX	(<5U)	6B	---	---
Ethylbenzene	2.0	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	700	700
Total Xylenes	2.0	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	600	10,000
2-Butanone	5.0	(<5U)	(<5U)	1J	(<5U)	(<5U)	(<5U)	(<5U)	(<5U)	(<5U)	2J	(<5U)	(<5U)	(<5U)	---	---
4-Methyl 2-pentanone	3.0	(<3U)	(<3U)	(<3U)	(<3U)	(<3U)	(<3U)	(<3U)	(<3U)	(<3U)	3JB	(<3U)	(<3U)	(<3U)	---	---
2-Hexanone	4.0	(<4U)	(<4U)	(<4U)	(<4U)	(<4U)	(<4U)	(<4U)	(<4U)	(<4U)	3JB	(<4U)	(<4U)	(<4U)	---	---
Toluene	2.0	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	1J	(<2U)	(<2U)	(<2U)	1,400	1,000
Trichloroethene	2.5	(<2.5U)	(<2.5U)	(<2.5U)	(<2.5U)	1J	(<2.5U)	(<2.5U)	(<2.5U)	(<2.5U)	(<2.5U)	(<2.5U)	(<2.5U)	(<2.5U)	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) Secondary MCL, based on taste, odor, or color.

NOTE: Only those analytes detected in at least one of the samples and the contaminants of concern listed in the LTMP (ABB-ES 1995) are shown on this table. Dashes (---) indicate no compound applicable to this analyte.

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

Analyte	CRQL[a]/ CRDL	MW-NASB-069 MW-901	MW-NASB-071 MW-903	MW-NASB-071 MW-903 DUP	MW-NASB-072 MW-904	MW-NASB-074 MW-906	MW-NASB-075 MW-907	MW-NASB-076 MW-908	MW-NASB-077 MW-909	MW-NASB-078 MW-910	MW-NASB-079 MW-914	MW-NASB-080 MW-915	MW-NASB-081 MW-916	TB-001 (5/19/95)	MEG[b]	MCL[c]
TARGET ANALYTE LIST ELEMENTS BY SW-846 (μg/L)																
Aluminum	200.0	NR	(<14.3U)	(<14.3U)	1,380	NR	NR	NR	NR	NR	116B*	42.2B*	16.4B*	NR	1,430	50-200[d]
Arsenic	10.0	NR	4.0B*	4.1B*	2.3B*	NR	NR	NR	NR	NR	2.8B*	1.6B*	(<1.5U)	NR	---	50
Barium	200.0	NR	7.3B*	7.2B*	11.3B*	NR	NR	NR	NR	NR	198B*	732	61.7B*	NR	1,500	2,000
Cadmium	5.0	NR	(<1.2U)	(<1.2U)	(<1.2U)	NR	NR	NR	NR	NR	(<1.2U)	(<1.2U)	1.3B*	NR	5	5
Calcium	5,000.00	NR	13,800	13,000	17,400	NR	NR	NR	NR	NR	28,300	60,900	31,900	NR	---	---
Chromium	10.0	NR	(<2.4U)	(<2.4U)	12.7	NR	NR	NR	NR	NR	(<2.4U)	5.7B*	2.6B*	NR	100	100
Copper	25.0	NR	(<2.9U)	(<2.9U)	4.3B*	NR	NR	NR	NR	NR	(<2.9U)	(<2.9U)	(<2.9U)	NR	---	1,000[d] 1,300[e][f]
Iron	100.0	NR	5,990	5,570	2,280	NR	NR	NR	NR	NR	18,500	1,470	42.3B*	NR	---	300[d]
Lead	3.0	NR	(<0.72U)	(<0.72U)	0.76B*	NR	NR	NR	NR	NR	(<0.72U)	(<0.72U)	(<0.72U)	NR	20	15[e]
Magnesium	5,000.0	NR	6,460	6,080	5,250	NR	NR	NR	NR	NR	1,870B*	4,110B*	2,860B*	NR	---	---
Manganese	15.0	NR	345	327	162	NR	NR	NR	NR	NR	103	125	1.8B*	NR	200	50[d]
Nickel	40.0	NR	(<7.2U)	7.4B*	13.9B*	NR	NR	NR	NR	NR	(<7.2U)	7.3B*	(<7.2U)	NR	150	100[f]
Potassium	5,000.0	NR	2,590B*	2,200B*	1,420B*	NR	NR	NR	NR	NR	2,470B*	6,340	6,200	NR	---	---
Selenium	5.0	NR	(<0.63U)	(<0.63U)	(<0.63U)	NR	NR	NR	NR	NR	(<0.63U)	(<0.63U)	0.93B*	NR	10	50
Sodium	5,000.0	NR	26,400	24,800	6,280	NR	NR	NR	NR	NR	2,920B*	23,100	71,000	NR	---	---
Vanadium	50.0	NR	(<2.4U)	(<2.4U)	5.6B*	NR	NR	NR	NR	NR	4.5B*	3.0B*	(<2.4U)	NR	---	---
Zinc	20.0	NR	9.5B*	6.4B*	9.9B*	NR	NR	NR	NR	NR	9.5B*	17.8B*	6.8B*	NR	---	5,000[d]
Cyanide	10.0	NR	15.1	15.6	(<2.6U)	NR	NR	NR	NR	NR	(<2.6U)	(<2.6U)	(<2.6U)	NR	154	200[f]

(e) Action level.
(f) Proposed MCL as of 23 October 1992.

TABLE 6 SUMMARY OF ANALYTICAL RESULTS FOR SURFACE WATER SAMPLES COLLECTED 17 MAY 1995 AT SITE 9, NAVAL AIR STATION, BRUNSWICK, MAINE

Compound	CRQL[a]	SW-010	SW-010 DUP	SW-011	SW-012	SW-915	SW-916	SW-919	SW-922	TB-001 (5/19/95)
VOLATILE ORGANIC COMPOUNDS BY EPA METHOD 8260 (µg/L)										
Acetone	5.0	1JBX	1JBX	5JBX	10BX	6BX	3JBX	4JBX	6BX	6BX
Benzene	2.0	(<2U)	(<2U)	(<2U)	(<2U)	1J	(<2U)	1J	(<2U)	(<2U)
Methylene chloride	3.0	10B	10B	8B	3JB	2JB	11B	2JB	3JB	(<3U)
Toluene	2.0	(<2U)	(<2U)	1JX	1JX	2X	1JX	1JX	(<2U)	3B
2-Butanone	5.0	(<5U)	(<5U)	(<5U)	2J	(<5U)	2JB	(<5U)	2J	(<5U)
4-Methyl 2-pentanone	3.0	(<3U)	(<3U)	(<3U)	3JB	(<3U)	2J	(<3U)	(<3U)	(<3U)
2-Hexanone	4.0	(<4U)	(<4U)	(<4U)	3JB	(<4U)	3J	(<4U)	(<4U)	(<4U)
1,1,2,2-Tetrachloroethane	5.0	(<5U)	(<5U)	(<5U)	(<5U)	(<5U)	(<5U)	(<5U)	2J	(<5U)
Total 1,2-Dichloroethene	2.0	1J	1J	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)
Total Xylenes	2.0	(<2U)	(<2U)	1J	2	3	1J	2	(<2U)	(<2U)

(a) CRQL is representative of Practical Quantitation Level.

NOTE: Only those analytes detected in at least one of the samples and the 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 the detection limit.
- JX = Compound detected in associated method blank.
- CRQL = Contract Required Quantification Limit for volatile organic compounds.
- TB = Trip blank.
- X = Compound detected in associated trip blank.

TABLE 7 SUMMARY OF ANALYTICAL RESULTS FOR SEDIMENT SAMPLES COLLECTED 17 MAY 1995 AT SITE 9, NAVAL AIR STATION, BRUNSWICK, MAINE

Compound	CRQL[a]	SED -010	SED-010[b]	SED-010 DUP	SED-011	SED-011[b]	SED-012	SED-915	SED-916	SED-916[b]	SED-919	SED-919[b]	SED-922	QD-001 (µg/L)	RB-001 (µg/L)
VOLATILE ORGANIC COMPOUNDS BY EPA METHOD 8260 (µg/kg)															
Acetone	5.0	(<6.5U)	9XYZ	13XYZ	350XYZ	64XYZ	(<6U)	(<6U)	(<6.5U)	(<6.5U)	(<6U)	(<6U)	91XYZ	17	25B
Methylene chloride	3.0	4BXYZ	18BXYZ	3JBXYZ	6BXYZ	18BXYZ	5BXYZ	10BXYZ	5BXYZ	15BXYZ	3JBXYZ	12BXYZ	25BXYZ	8B	2JB
Total Xylenes	2.0	2JY	(<2.6U)	(<2.6U)	(<4U)	(<4U)	(<2.4U)	(<2.4U)	1JXYZ	(<2.6U)	(<2.4U)	(<2.4U)	(<3.6U)	(<2U)	11
2-Butanone	5.0	(<6.5U)	(<6.5U)	(<6.5U)	22Y	13Y	(<6U)	(<6U)	(<6.5U)	(<6.5U)	(<6U)	(<6U)	(<9U)	(<5U)	4JB
Tetrachloroethene	2.0	(<2.6U)	(<2.6U)	(<2.6U)	(<4U)	(<4U)	(<2.4U)	(<2.4U)	1J	(<2.6U)	(<2.4U)	(<2.4U)	2J	(<2U)	(<2U)
1,1,2,2-Tetrachloroethene	5.0	6J	(<6.5U)	(<6.5U)	(<10U)	(<10U)	(<6U)	(<6U)	2J	(<6.5U)	(<6U)	(<6U)	(<9U)	(<5U)	(<5U)
Vinyl chloride	2.0	5	2J	(<2.6U)	(<4U)	(<4U)	(<2.4U)	(<2.4U)	(<2.6U)	(<2.6U)	(<2.4U)	(<2.4U)	(<3.6U)	(<2U)	(<2U)
Total 1,2-Dichloroethene	2.0	16	13	3	(<4U)	(<4U)	(<2.4U)	(<2.4U)	(<2.6U)	(<2.6U)	(<2.4U)	(<2.4U)	(<3.6U)	(<2U)	(<2U)
Trichloroethene	2.5	6	5	2J	(<5U)	(<5U)	(<3U)	(<3U)	(<3.3U)	(<3.3U)	(<3U)	(<3U)	(<4.5U)	(<2.5U)	(<2.5U)
Bromoform	5.0	1J	(<6.5U)	(<6.5U)	(<10U)	(<10U)	(<6U)	(<6U)	(<6.5U)	(<6.5U)	(<6U)	(<6U)	(<9U)	(<5U)	(<5U)
Toluene	2.0	(<2.6U)	(<2.6U)	(<2.6U)	(<4U)	(<4U)	(<2.4U)	(<2.4U)	(<2.6U)	(<2.6U)	(<2.4U)	(<2.4U)	(<3.6U)	(<2U)	4
Ethylbenzene	2.0	(<2.6U)	(<2.6U)	(<2.6U)	(<4U)	(<4U)	(<2.4U)	(<2.4U)	(<2.6U)	(<2.6U)	(<2.4U)	(<2.4U)	(<3.6U)	(<2U)	2J
1,2-Dichloropropane	2.5	(<3.3U)	(<3.3U)	(<3.3U)	(<5U)	(<5U)	(<3U)	(<3U)	(<3.3U)	(<3.3U)	(<3U)	(<3U)	(<4.5U)	2J	(<2.5U)

(a) Contract Required Quantification Limit (CRQL) is representative of Practical Quantitation Level.
(b) Reanalysis conducted on samples due to low surrogate recoveries.

NOTE: Only those analytes detected in at least one of the samples and the contaminants of concern listed in the LTMP (ABB-ES 1995) are shown on this table.
B = Compound detected in associated method blank.
J = Estimated concentration below concentration limit.
NR = Analysis not required.
RB = Equipment rinsate blank.
QD = Source water blank.
U = Not detected. Sample quantitation limits are shown as (<____U).
X = Compound detected in associated trip blank.
Y = Compound/analyte detected in associated rinse blank.
Z = Compound/analyte detected in associated source water blank.
Trip blank submitted concurrent with these samples, and contained reported concentrations of methylene chloride and acetone of 33 µg/L and 68 µgL, respectively. These compounds were also reported in the associated method blank.

Compound	CRQL[a]	SED -010	SED-010[b]	SED-010 DUP	SED-011	SED-011[b]	SED-012	SED-915	SED-916	SED-916[b]	SED-919	SED-919[b]	SED-922	QD-001 (µg/L)	RB-001 (µg/L)
SEMIVOLATILE ORGANIC COMPOUNDS BY EPA METHOD 8270 (µg/kg)															
Naphthalene	330	180J	NR	120J	(<660U)	NR	83J	(<400U)	NR	NR	55J	NR	NR	(<10U)	NR
Acenaphthene	330	300J	NR	330J	70J	NR	300J	(<400U)	NR	NR	240J	NR	NR	(<10U)	NR
Dibenzofuran	330	190J	NR	190J	(<660U)	NR	120J	(<400U)	NR	NR	94J	NR	NR	(<10U)	NR
Fluorene	330	350J	NR	370J	(<660U)	NR	260J	(<400U)	NR	NR	250J	NR	NR	(<10U)	NR
Phenanthrene	330	2,400	NR	2,900	62J	NR	2,400	77J	NR	NR	4,700	NR	NR	(<10U)	NR
Anthracene	330	420J	NR	480	(<660U)	NR	440	(<400U)	NR	NR	560	NR	NR	(<10U)	NR
Carbazole	330	310J	NR	430	(<660U)	NR	300J	(<400U)	NR	NR	440	NR	NR	(<10U)	NR
Di-n-butylphthalate	330	36JB	NR	25JB	(<660U)	NR	44JB	27JB	NR	NR	23JB	NR	NR	(<10U)	NR
Fluoranthene	330	4,100	NR	3,700	110J	NR	2,800	800	NR	NR	24,000	NR	NR	(<10U)	NR
Pyrene	330	3,000	NR	2,800	96J	NR	2,400	840	NR	NR	20,000	NR	NR	(<10U)	NR
Benzo(a)anthracene	330	1,600	NR	1,400	(<660U)	NR	1,500	600	NR	NR	9,800	NR	NR	(<10U)	NR
Chrysene	330	1,600	NR	1,600	71J	NR	1,400	490	NR	NR	10,000	NR	NR	(<10U)	NR
Bis(2-ethylhexyl)phthalate	330	43JZ	NR	77JZ	71JZ	NR	340JZ	56JZ	NR	NR	290JZ	NR	NR	2J	NR
Benzo(b)fluoranthene	330	2,900	NR	2,600	140J	NR	2,800	950	NR	NR	12,000	NR	NR	(<10U)	NR
Benzo(a)pyrene	330	1,400	NR	1,300	82J	NR	1,400	460	NR	NR	5,500	NR	NR	(<10U)	NR
Indeno(1,2,3-c,d)pyrene	330	820	NR	840	47J	NR	770	230J	NR	NR	2,500	NR	NR	(<10U)	NR
Dibenzo(a,h)anthracene	330	260J	NR	280J	(<660U)	NR	250J	(<400U)	NR	NR	(<400U)	NR	NR	(<10U)	NR
Benzo(g,h,i)perylene	330	910	NR	960	51J	NR	870	250J	NR	NR	2,500	NR	NR	(<10U)	NR
1,4-Dichlorobenzene	330	140J	NR	34J	(<660U)	NR	(<400U)	(<400U)	NR	NR	(<400U)	NR	NR	(<10U)	NR
2-Methyl naphthalene	330	150J	NR	71J	(<600U)	NR	(<400U)	(<400U)	NR	NR	34J	NR	NR	(<10U)	NR
Acenaphthylene	330	35J	NR	14J	(<660U)	NR	(<400U)	(<400U)	NR	NR	30J	NR	NR	(<10U)	NR
Di-n-octylphthalate	330	(<430U)	NR	(<400U)	(<660U)	NR	(<400U)	(<400U)	NR	NR	25J	NR	NR	(<10U)	NR

TABLE 8 SUMMARY OF ANALYTICAL RESULTS FOR THE LEACHATE SEEP AND SEDIMENT SAMPLES COLLECTED AT SITE 9, NAVAL AIR STATION, BRUNSWICK, MAINE

Analyte	CRQL[a]/ CRDL	LT-901 (SEEP)	LT-901 (SED)	LT-901 (SED)[b]	RB-001 (5/17/95)	TB-001 (5/19/95)	QD-001
VOLATILE ORGANIC COMPOUNDS BY EPA METHOD 8260							
Units		µg/L	µg/kg	µg/kg	µg/L	µg/L	µg/L
Methylene chloride	3.0	3BX	36BXYZ	35BXYZ	2JB	3B	8B
Acetone	5.0	2JBX	180XYZ	120XYZ	25B	6B	17
2-Butanone	5.0	(<5U)	24Y	(<5U)	4JB	(<5U)	(<5U)
Total Xylenes	2.0	1J	2JY	1JY	11	(<2U)	(<2U)
1,1-Dichloroethene	2.0	1J	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)
Carbon disulfide	5.0	(<5U)	8	6J	(<5U)	(<5U)	(<5U)
Toluene	2.0	(<2U)	(<2U)	(<2U)	4	(<2U)	(<2U)
Ethylbenzene	2.0	(<2U)	(<2U)	(<2U)	2J	(<2U)	(<2U)
TARGET ANALYTE LIST ELEMENTS BY SW-846							
Units		µg/L	mg/kg	mg/kg	µg/L		
Aluminum	200.0	146,000	3,850YZ	NR	44.0B*	NR	41.3B*
Arsenic	10.0	370	1.7B*Y	NR	1.7B*	NR	(<1.5U)
Barium	200.0	1,580	9.3B*Z	NR	(<1.0U)	NR	7.9B*
Beryllium	5.0	9.1B*	(<0.09U)	NR	(<0.30U)	NR	(<0.74U)
Cadmium	5.0	20.9B*	(<0.39U)	NR	(<1.2U)	NR	(<3.4U)
Calcium	5,000.0	151,000	462B*YZ	NR	19.4B*	NR	135B*
Chromium	10.0	348	4.7	NR	(<2.4U)	NR	(<7.9U)
Cobalt	50.0	178B*	(<3.0U)	NR	(<2.1U)	NR	(<26U)

(a) Contract Required Qunatitation Limit (CRQL) is representative of Practical Quantitation Level.
(b) Reanalysis conducted due to low surrogate recovery.

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

B = Compound detected in associated method blank.
NR = Analysis not required.
B* = Analyte concentration is between the instrument detection limit and the Contract Required Detection Limit.
RB = Equipment rinsate blank.
QD = Source water blank.
U = Not detected. Sample quantitation limits are shown as (<____U).
X = Compound detected in associated trip blank.
Y = Compound/analyte detected in associated rinse blank.
Z = Compound/analyte detected in associated source water blank.

Analyte	CRQL[a]/ CRDL	LT-901 (SEEP)	LT-901 (SED)	LT-901 (SED)[b]	RB-001 (5/17/95)	TB-001 (5/19/95)	QD-001
TARGET ANALYTE LIST ELEMENTS BY SW-846 (Continued)							
Units		µg/L	mg/kg	mg/kg	µg/L	µg/L	
Copper	25.0	750	2.9B*	NR	(<2.9U)	NR	(<9.9U)
Iron	100.0	1,090,000	4,680YZ	NR	20.4B*	NR	41.7B*
Lead	3.0	4,930	2.8Z	NR	(<0.72U)	NR	1.3B*
Magnesium	5,000.0	47,800	1,040Z	NR	(<22.2U)	NR	44.4B*
Manganese	15.0	6,190	54.3Z	NR	(<0.50U)	NR	9.2B*
Mercury	0.2	1.2	(<0.02U)	NR	(<0.10U)	NR	(<0.10U)
Nickel	40.0	374	(<4.6U)	NR	(<7.2U)	NR	(<40U)
Potassium	5,000.0	22,400B*	447B*	NR	(<336U)	NR	(<480U)
Selenium	5.0	(<2.9U)	(<0.06U)	NR	(<0.63U)	NR	1.3B*
Silver	10.0	15.1B*	(<0.87U)	NR	(<2.0U)	NR	(<7.5U)
Sodium	5,000.0	40,500	59.1B*YZ	NR	35.9B*	NR	457B*
Vanadium	50.0	887	8.1	NR	(<2.4U)	NR	(<9.4U)
Zinc	20.0	5,500	9.9YZ	NR	5.6B*	NR	25.9
Cyanide	10.0	(<2.6U)	(<0.16U)	NR	(<2.6U)	NR	NR

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Appendix A

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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 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 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 collect 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.1.5.

- 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.1.5 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 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 HCl, and check the pH. Adjust the volume of HCl to assure pH<2.

  — Add the amount of HCl 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.1.6 Field Quality Control

Quality control samples are required to verify that the sample collection and handling process has not affected the quality of the 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.1.7 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

The following decontamination procedure will be used:

- 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 - SURFACE WATER AND LEACHATE SEEP SAMPLING PROCEDURE

A.2.1 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.2.2 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.2.3 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.2.4 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.2.5.

- 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.2.5 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 HCl, 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.2.6 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.2.7 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

The following decontamination procedure will be used:

- 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 - SEDIMENT SAMPLING PROCEDURE

A.3.1 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.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).
- 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.3.3 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.3.4 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 coarse 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, and 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 use 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.3.5 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.3.6 Decontamination

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

Procedure

The following decontamination procedure will be used:

- 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 Form
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 Form

EA ENGINEERING, SCIENCE, AND TECHNOLOGY, INC.

FIELD RECORD OF WELL GAUGING

Project Name: NAS Brunswick - Site 9	Project No: 29600.47.7200	Date: 5/1/95 - @ 1715
Weather/Temperature: Sunny, @ 50°F		
EA Personnel: CC, CJV	Equipment: 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						
MW-901	Yes/Yes	No	0	0	Broken Latch			12.98'		
MW-902	Yes/Yes	Yes	0	0	Good			11.69'		
MW-903	Yes/Yes	Yes	0	0	Good			2.48'		
MW-904	Yes/Yes	Yes	0	0	Good			10.73'		
MW-905	Yes/Yes	Yes	0	0	Good			5.67'		
MW-906	Yes/Yes	Yes	0	0	Good			10.33'		
MW-907	Yes/Yes	Yes	0	0	Good			12.04'		
MW-908	Yes/Yes	Yes	0	0	Good			11.56'		
MW-910	No/Yes	Yes	0	0	Good			12.75'	steel (Top of Casing)	
MW-914	No/Yes	Yes	0	0	Good			11.69'		
MW-915	No/Yes	Yes	0	0	Good			11.05'		
MW-916	No/Yes	Yes	0	0	Good			10.73'		
MW-909	No/Yes	Yes	0	0	Good			23.87'		

NOTE: All measurements in feet mean sea level (MSL). With the exception of depth to water & measured well depth

f:\wp\29600\47

Appendix B.2

Field Record of Well Gauging, Purging, and Sampling Forms

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: Site #9
WELL I.D.: 2" MW-901
WELL CONDITION: Good

PROJECT NUMBER: 29600047 T-7200
WELL LOCK: ~~YES~~ NO
WEATHER: Cloudy High 40's

GAUGE DATE: 5/18/95
SOUNDING METHOD: Slope Indicator
STICK UP/DOWN (ft): 2.46

GAUGE TIME: 0925
MEASUREMENT REF: PVC
WELL DIAMETER (in.): 2"

PURGE DATE: 5/18/95
PURGE METHOD: 2" Grundfos
AMBIENT AIR VOCs (ppm) 0 ppm

PURGE TIME: 0925
FIELD TECHNICIAN: JN
WELL MOUTH VOCs (ppm): 0 ppm

WELL VOLUME

A. WELL DEPTH (ft): 42.42
B. DEPTH TO WATER (ft): 10.90
C. LIQUID DEPTH (ft) (A-B): 31.52

D. WELL VOLUME/FT: 0.16
E. WELL VOLUME (~~gal~~) (C*D): 5.04 gal
F. THREE WELL VOLUMES (~~gal~~) (E*3): 15.13 gal

	BEGINNING	Number of Well Volumes Purged				
		1	2	3	4	5
TIME (min)	0938	0950	1003	1013	1028	
DEPTH TO WATER (ft)	10.90	→				
PURGE RATE (l/min)	300ml/MIN	→				
VOLUME PURGED (gal)						
pH	6.32	6.27	6.24	6.23	6.21	
TEMPERATURE (C)	12.3°C	14.3°C	14.5°C	14.2°C	14.5°C	
CONDUCTIVITY (µmhos/cm)	.222 mS/cm	.235 S/cm	.264 mS/cm	.289 mS/cm	.299 mS/cm	
DISSOLVED OXYGEN (µg/L)	4.26 mg/l	.53 mg/l	.54 mg/l	1.87 mg/l	.72 mg/l	
eh (mv)						
TURBIDITY (NTU)	132 NTU	5 NTU	1 NTU	1 NTU	8 NTU	

TOTAL QUANTITY OF WATER REMOVED (gal): ~~17.42~~ 19.8 L

SAMPLERS: John Newman
SAMPLING TIME (START/END): 1030/1031
SAMPLING DATE: 5/18/95
DECONTAMINATION FLUIDS USED: N/A
SAMPLE TYPE: Low Flow Grab
SAMPLE PRESERVATIVES: HCL
SAMPLE BOTTLE IDs: BN-02-59-MW901
SAMPLE PARAMETERS: VOCs

COMMENTS AND OBSERVATIONS: Well needs a flush Tab. Therefor no lock

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME:	9	PROJECT NUMBER:	29600.47
WELL I.D.:	MW903	WELL LOCK:	yes
WELL CONDITION:	Good	WEATHER:	Cloudy 55°
GAUGE DATE:	5/18/95	GAUGE TIME:	0840
SOUNDING METHOD:	slope indicator	MEASUREMENT REF:	Casing
STICK UP/DOWN (ft):	~~2.5~~ 3.83	WELL DIAMETER (in.):	2"
PURGE DATE:	5/18/95	PURGE TIME:	0855
PURGE METHOD:	grundfos	FIELD TECHNICIAN:	TC
AMBIENT AIR VOCs (ppm)	0	WELL MOUTH VOCs (ppm):	0

WELL VOLUME

A. WELL DEPTH (ft):	21.54	D. WELL VOLUME/FT:	0.16
B. DEPTH TO WATER (ft):	2.51	E. WELL VOLUME (gal) (C*D):	3.04
C. LIQUID DEPTH (ft) (A-B):	19.03	F. THREE WELL VOLUMES (gal) (E*3):	9.13

	BEGINNING	Number of Well Volumes Purged				
		1	2	3	4	5
TIME (min)	0859	0905	0911			
DEPTH TO WATER (ft)	2.51	2.51	2.51			
PURGE RATE (l/min)	1500ml/min	1500	1500			
VOLUME PURGED (gal)						
pH	5.98	6.03	6.01			
TEMPERATURE (C)	11.7	12.3	12.4			
CONDUCTIVITY (µmhos/cm)	.263	.270	.269			
DISSOLVED OXYGEN (µg/L)	0.56	0.32	0.36			
eh (mv)						
TURBIDITY (NTU)	7	10	10			

TOTAL QUANTITY OF WATER REMOVED ~~(gal)~~: 37.8 liters

SAMPLERS:	TC	SAMPLING TIME (START/END) :	0917
SAMPLING DATE:	5/18/95	DECONTAMINATION FLUIDS USED:	NA
SAMPLE TYPE:	low flow grab	SAMPLE PRESERVATIVES:	HCl NaOH HNO_3
SAMPLE BOTTLE IDs:	BN-02-09-MW903 (o-p)		
SAMPLE PARAMETERS:	VOC metals CN		

COMMENTS AND OBSERVATIONS: Duplicate taken on this well

f:\wp\29600\47

EA

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: Site #9
WELL I.D.: MW 904
WELL CONDITION: Good

PROJECT NUMBER: 29600047 T-7200
WELL LOCK: YES
WEATHER: Cloudy High 40's

GAUGE DATE: 5/18/95
SOUNDING METHOD: Slope Indicator
STICK UP/DOWN (ft): 2.25

GAUGE TIME: ~~0730~~ 0800
MEASUREMENT REF: PVC
WELL DIAMETER (in.): 2"

PURGE DATE: 5/18/95
PURGE METHOD: 2" Grundfos
AMBIENT AIR VOCs (ppm) 0 ppm

PURGE TIME: 0800
FIELD TECHNICIAN: BW BJN
WELL MOUTH VOCs (ppm): 0 ppm

WELL VOLUME

A. WELL DEPTH (ft): 14.63
B. DEPTH TO WATER (ft): 9.65ft
C. LIQUID DEPTH (ft) (A-B): 4.98

D. WELL VOLUME/FT: 0.16
E. WELL VOLUME (gal) (C*D): 0.79
F. THREE WELL VOLUMES (gal) (E*3): 2.39

	BEGINNING	Number of Well Volumes Purged				
		1	2	3	4	5
TIME (min)	0830	0836	0845	0852	0857	
DEPTH TO WATER (ft)	9.65ft	→				
PURGE RATE (l/min)	~~300~~ 400 ml	→				
VOLUME PURGED (gal)						
pH	6.34	6.31	6.32	6.30	6.29	
TEMPERATURE (C)	8.1°C	8.6°C	8.9°C	8.8°C	8.8°C	
CONDUCTIVITY (µmhos/cm)	.107 mS/cm	.136 mS/cm	.141 mS/cm	.144 mS/cm	.145 mS/cm	
DISSOLVED OXYGEN (µg/L)	4.56 mg/L	3.00 mg/L	3.38 mg/L	2.67 mg/L	2.96 mg/L	
eh (mv)						
TURBIDITY (NTU)	158 NTU	7 NTU	4 NTU	2 NTU	1 NTU	

TOTAL QUANTITY OF WATER REMOVED (gal): 1.08 L ~~12~~ 24 L

SAMPLERS: Bart Wuemling
SAMPLING TIME (START/END): 0900-0902

SAMPLING DATE: 5/18/95
DECONTAMINATION FLUIDS USED: N/A

SAMPLE TYPE: Low Flow Grab
SAMPLE PRESERVATIVES: HCL HNO_3 H_2SO_4

SAMPLE BOTTLE IDs: BN-C2-S9-MW904MSD/MS

SAMPLE PARAMETERS: VOC's - Metals - CN

COMMENTS AND OBSERVATIONS: mg/mid taken

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME:	9	PROJECT NUMBER:	29600.47
WELL I.D.:	MW9C	WELL LOCK:	yes
WELL CONDITION:	Good	WEATHER:	Cloudy Rain
GAUGE DATE:	5/17/95	GAUGE TIME:	1500
SOUNDING METHOD:	Slope indicator	MEASUREMENT REF:	PVC
STICK UP/DOWN (ft):	~~up~~ 1.87	WELL DIAMETER (in.):	2"
PURGE DATE:	5/17/95	PURGE TIME:	1620
PURGE METHOD:	grundfos	FIELD TECHNICIAN:	TC CC
AMBIENT AIR VOCs (ppm)	0	WELL MOUTH VOCs (ppm):	0

WELL VOLUME

A. WELL DEPTH (ft):	27.12	D. WELL VOLUME/FT:	0.16
B. DEPTH TO WATER (ft):	10.28	E. WELL VOLUME (gal) (C*D):	2.69
C. LIQUID DEPTH (ft) (A-B):	16.84	F. THREE WELL VOLUMES (gal) (E*3):	8.08

	BEGINNING	Number of Well Volumes Purged				
		1	2	3	4	5
TIME (min)	1525	1645	1659			
DEPTH TO WATER (ft)	10.28	10.28	10.28			
PURGE RATE (l/min)	300 ml/min	300	300			
VOLUME PURGED (gal)						
pH	6.43	6.43	6.41			
TEMPERATURE (C)	10.9	11.8	12.5			
CONDUCTIVITY (µmhos/cm)	.245	.254	.261			
DISSOLVED OXYGEN (µg/L)	0.52	0.82	0.71			
eh (mv)						
TURBIDITY (NTU)	47	4	1			

TOTAL QUANTITY OF WATER REMOVED ~~(gal)~~: 15.8 liters

SAMPLERS:	TC CC	SAMPLING TIME (START/END) :	1710
SAMPLING DATE:	5/17/95	DECONTAMINATION FLUIDS USED:	N/A
SAMPLE TYPE:	low-flow grab	SAMPLE PRESERVATIVES:	HCl
SAMPLE BOTTLE IDs:	BN-02-9-MW ~~906~~ 906		
SAMPLE PARAMETERS:	VOC		

COMMENTS AND OBSERVATIONS:

EA

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME:	9	PROJECT NUMBER:	29600.47
WELL I.D.:	MW907	WELL LOCK:	yes
WELL CONDITION:	good	WEATHER:	fair
GAUGE DATE:	5/17/95	GAUGE TIME:	1600
SOUNDING METHOD:	Slope indicator	MEASUREMENT REF:	PVC
STICK UP/DOWN (ft):	~~UP~~ 2.08	WELL DIAMETER (in.):	2"
PURGE DATE:	5/17/95	PURGE TIME:	1615
PURGE METHOD:	grundfos	FIELD TECHNICIAN:	TC CC
AMBIENT AIR VOCs (ppm)	0	WELL MOUTH VOCs (ppm):	0

WELL VOLUME

A. WELL DEPTH (ft):	21.22	D. WELL VOLUME/FT:	0.16
B. DEPTH TO WATER (ft):	14.1	E. WELL VOLUME (gal) (C*D):	1.14
C. LIQUID DEPTH (ft) (A-B):	7.12	F. THREE WELL VOLUMES (gal) (E*3):	3.42

	BEGINNING	Number of Well Volumes Purged				
		1	2	3	4	5
TIME (min)	1620	1635	1650			
DEPTH TO WATER (ft)	14.1	14.1	14.1			
PURGE RATE (l/min)	300ml/min	300	300			
VOLUME PURGED (gal)						
pH	6.40	6.40	6.40			
TEMPERATURE (C)	10.5	12.3	12.8			
CONDUCTIVITY (µmhos/cm)	.535	.331	.329			
DISSOLVED OXYGEN (µg/L)	.75	.73	.65			
eh (mv)						
TURBIDITY (NTU)	7	3	0			

TOTAL QUANTITY OF WATER REMOVED ~~(gal)~~: 15.8 liters

SAMPLERS:	TC CC	SAMPLING TIME (START/END):	1705
SAMPLING DATE:	5/17/95	DECONTAMINATION FLUIDS USED:	NA
SAMPLE TYPE:	Low flow grab	SAMPLE PRESERVATIVES:	HCl
SAMPLE BOTTLE IDs:	BN-CC-9-MW907		
SAMPLE PARAMETERS:	VOC		

COMMENTS AND OBSERVATIONS:

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: #9
WELL I.D.: 2" MW 908 cc
WELL CONDITION: GOOD

PROJECT NUMBER: 29600047 ~~T-1000~~ 7200
WELL LOCK: YES
WEATHER: RAIN 45°

GAUGE DATE: 5/17/95
SOUNDING METHOD: SLOPE INDICATOR
STICK UP/DOWN (ft): 1.93

GAUGE TIME: ~~1420~~ cc 1630
MEASUREMENT REF: PVC
WELL DIAMETER (in.): 2"

PURGE DATE: 5/17/95
PURGE METHOD: 2" GRUNDFOS
AMBIENT AIR VOCs (ppm) 0ppm

PURGE TIME: ~~1422~~ cc 1630
FIELD TECHNICIAN: BW/JN
WELL MOUTH VOCs (ppm): 0ppm

WELL VOLUME

A. WELL DEPTH (ft): 19.94
B. DEPTH TO WATER (ft): 11.58ft
C. LIQUID DEPTH (ft) (A-B): 8.36
D. WELL VOLUME/FT: 0.16
E. WELL VOLUME (gal) (C*D): 1.34
F. THREE WELL VOLUMES (gal) (E*3): 4.01

	BEGINNING	Number of Well Volumes Purged				
		1	2	3	4	5
TIME (min)	1641	1650	1657			
DEPTH TO WATER (ft)	11.58ft	→	→			
PURGE RATE (l/min)	300ml/min	→	→			
VOLUME PURGED (gal)						
pH	5.92	5.94	5.94			
TEMPERATURE (C)	12.4°C	13.4°C	13.6°C			
CONDUCTIVITY (µmhos/cm)	.314 s/cm	.305 s/cm	.305 s/cm			
DISSOLVED OXYGEN (µg/L)	2.34 mg/l	2.24 mg/l	2.00 mg/l			
eh (mv)						
TURBIDITY (NTU)	2 NTU	0 NTU	0 NTU			

TOTAL QUANTITY OF WATER REMOVED (gal): ~~5.4 GAL~~ cc 9.6 L

SAMPLERS: BART WIEMLING
SAMPLING TIME (START/END): 1700/1702
SAMPLING DATE: 5/17/95
DECONTAMINATION FLUIDS USED: N/A
SAMPLE TYPE: VOC'S
SAMPLE PRESERVATIVES: HCL
SAMPLE BOTTLE IDs: BN-02-59-MW908
SAMPLE PARAMETERS: VOC'S

COMMENTS AND OBSERVATIONS:

EA

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: SITE #9
WELL I.D.: MW 909
WELL CONDITION: GOOD

PROJECT NUMBER: 29600.47
WELL LOCK: YES
WEATHER: SUNNY 50°F

GAUGE DATE: 5/18/95
SOUNDING METHOD: SLOPE INDICATOR
STICK UP/DOWN (ft): 3.04

GAUGE TIME: 1145
MEASUREMENT REF: PVC
WELL DIAMETER (in.): 2"

PURGE DATE: 5/18/95
PURGE METHOD: 2" GRUNDFOS
AMBIENT AIR VOCs (ppm) 0ppm

PURGE TIME: 11:48
FIELD TECHNICIAN: BW/JN
WELL MOUTH VOCs (ppm): 0ppm

WELL VOLUME

A. WELL DEPTH (ft): 27.32
B. DEPTH TO WATER (ft): 17.35ft
C. LIQUID DEPTH (ft) (A-B): 9.97

D. WELL VOLUME/FT: 0.16
E. WELL VOLUME (gal) (C*D): 1.60
F. THREE WELL VOLUMES (gal) (E*3): 4.79

	BEGINNING	Number of Well Volumes Purged				
		1	2	3	4	5
TIME (min)	1151	1158	1210	1217	1224	1229
DEPTH TO WATER (ft)	17.35ft					
PURGE RATE (l/min)	300ml/min					
VOLUME PURGED (gal)						
pH	6.17	6.23	6.16	6.14	6.13	6.15
TEMPERATURE (C)	11.0°C	11.2°C	11.0°C	11.2°C	10.8°C	11.1°C
CONDUCTIVITY (umhos/cm)	.047mS/cm	.038mS/cm	.035mS/cm	.034mS/cm	.034mS/cm	.034mS/cm
DISSOLVED OXYGEN (µg/L)	4.03mg/l	3.43mg/l	3.47mg/l	3.20mg/l	3.49mg/l	3.40mg/l
eh (mv)						
TURBIDITY (NTU)	410NTU	286NTU	88NTU	40NTU	19NTU	12NTU

TOTAL QUANTITY OF WATER REMOVED (gal): 1.4L cc 13.8 L

SAMPLERS: JOHN NEWMAN
SAMPLING TIME (START/END): 1230/1231
SAMPLING DATE: 5/18/95
DECONTAMINATION FLUIDS USED: N/A
SAMPLE TYPE: LOW FLOW GRAB
SAMPLE PRESERVATIVES: HCL
SAMPLE BOTTLE IDs: BN-02-59-MW909
SAMPLE PARAMETERS: VOCs

COMMENTS AND OBSERVATIONS:

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME:	9	PROJECT NUMBER:	29600.47
WELL I.D.:	MW 910	WELL LOCK:	yes
WELL CONDITION:	good	WEATHER:	Partly cloudy 65°
GAUGE DATE:	5/18/95	GAUGE TIME:	1130
SOUNDING METHOD:	Slope indicator	MEASUREMENT REF:	Casing
STICK UP/DOWN (ft):	~~DN~~ 3.52	WELL DIAMETER (in.):	2"
PURGE DATE:	5/18/95	PURGE TIME:	1135
PURGE METHOD:	grundfos	FIELD TECHNICIAN:	TC
AMBIENT AIR VOCs (ppm)	0	WELL MOUTH VOCs (ppm):	0

WELL VOLUME

A. WELL DEPTH (ft):	14.93	D. WELL VOLUME/FT:	0.16
B. DEPTH TO WATER (ft):	12.65	E. WELL VOLUME (gal) (C*D):	0.84
C. LIQUID DEPTH (ft) (A-B):	2.28	F. THREE WELL VOLUMES (gal) (E*3):	2.50

	BEGINNING	Number of Well Volumes Purged				
		1	2	3	4	5
TIME (min)	1140	1147	1155	1200		
DEPTH TO WATER (ft)	12.65	12.65	12.55	12.55		
PURGE RATE (l/min)	300 ml/min	300	300	300		
VOLUME PURGED (gal)						
pH	5.60	5.42	5.36	5.35		
TEMPERATURE (C)	9.4	8.3	8.2	8.2		
CONDUCTIVITY (µmhos/cm)	.054	.050	.050	.049		
DISSOLVED OXYGEN (µg/L)	5.47	5.33	5.49	5.40		
eh (mv)						
TURBIDITY (NTU)	13	1	1	1		

TOTAL QUANTITY OF WATER REMOVED ~~(gal)~~: 9.8 liters

SAMPLERS:	TC	SAMPLING TIME (START/END) :	1205
SAMPLING DATE:	5/18/95	DECONTAMINATION FLUIDS USED:	N/A
SAMPLE TYPE:	low flow grab	SAMPLE PRESERVATIVES:	HCl
SAMPLE BOTTLE IDs:	BN-82-09 - MW 910		
SAMPLE PARAMETERS:	VOC		

COMMENTS AND OBSERVATIONS:

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FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME:	S9	PROJECT NUMBER:	296 0047
WELL I.D.:	MW 914	WELL LOCK:	Y
WELL CONDITION:	OK	WEATHER:	Cloudy
GAUGE DATE:	5-18-95	GAUGE TIME:	0920
SOUNDING METHOD:	Slope Indicator	MEASUREMENT REF:	TOC
STICK UP/DOWN (ft):	2-21	WELL DIAMETER (in.):	2"
PURGE DATE:	5-18-95	PURGE TIME:	0925
PURGE METHOD:	Grund Fos	FIELD TECHNICIAN:	BW JN
AMBIENT AIR VOCs (ppm)	0 ppm	WELL MOUTH VOCs (ppm):	0 ppm

WELL VOLUME

A. WELL DEPTH (ft):	18.92	D. WELL VOLUME/FT:	0.16
B. DEPTH TO WATER (ft):	11.46	E. WELL VOLUME (gal) (C*D):	1.19
C. LIQUID DEPTH (ft) (A-B):	7.46	F. THREE WELL VOLUMES (gal) (E*3):	3.58

	BEGINNING	Number of Well Volumes Purged				
		1	2	3	4	5
TIME (min)	0943	0958	1008			
DEPTH TO WATER (ft)	11.46	→	→			
PURGE RATE (l/min)	400 mL/min	→	→			
VOLUME PURGED (gal)						
pH	6.86	6.94	6.91			
TEMPERATURE (C)	16.2	16.9	12.7			
CONDUCTIVITY (µmhos/cm)	.223	.236	.209			
DISSOLVED OXYGEN (µg/L)	1.78	1.29	1.46			
eh (mv)						
TURBIDITY (NTU)	107	42	6			

TOTAL QUANTITY OF WATER REMOVED (~~gal~~ LIT): 19.2 Liters

SAMPLERS:	BW JN	SAMPLING TIME (START/END) :	1010
SAMPLING DATE:	5-18-95	DECONTAMINATION FLUIDS USED:	N/A
SAMPLE TYPE:	Low Flow Grab	SAMPLE PRESERVATIVES:	Y HCl, ~~[illegible]~~ HNO3 NaOH
SAMPLE BOTTLE IDs:	BW-02-S9-MW914		
SAMPLE PARAMETERS:	VOC's metals CN		

COMMENTS AND OBSERVATIONS:

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FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME:	9	PROJECT NUMBER:	29600.47
WELL I.D.:	MW915	WELL LOCK:	yes
WELL CONDITION:	good	WEATHER:	cloudy
GAUGE DATE:	5/18/95	GAUGE TIME:	0955
SOUNDING METHOD:	slope indicator	MEASUREMENT REF:	pvc pipe
STICK UP/DOWN (ft):	~~up~~ 2.06	WELL DIAMETER (in.):	2"
PURGE DATE:	5/18/95	PURGE TIME:	1000
PURGE METHOD:	grundfos	FIELD TECHNICIAN:	TC
AMBIENT AIR VOCs (ppm)	0	WELL MOUTH VOCs (ppm):	0

WELL VOLUME

A. WELL DEPTH (ft):	19.04	D. WELL VOLUME/FT:	0.16
B. DEPTH TO WATER (ft):	10.8	E. WELL VOLUME (gal) (C*D):	1.32
C. LIQUID DEPTH (ft) (A-B):	8.24	F. THREE WELL VOLUMES (gal) (E*3):	3.96

	BEGINNING	Number of Well Volumes Purged				
		1	2	3	4	5
TIME (min)	1005	1015	1025	1035	1042	
DEPTH TO WATER (ft)	10.8	10.8	10.8	10.8	10.8	
PURGE RATE (l/min)	300 ml/min	300	300	300	300	
VOLUME PURGED (gal)						
pH	6.80	6.85	6.86	6.88	6.91	
TEMPERATURE (C)	10.6	13.2	13.5	13.7	14.5	
CONDUCTIVITY (µmhos/cm)	.393	.405	.399	.404	.406	
DISSOLVED OXYGEN (µg/L)	1.89	1.35	0.92	1.07	1.18	
eh (mv)						
TURBIDITY (NTU)	6	0	0	0	0	

TOTAL QUANTITY OF WATER REMOVED ~~(gal)~~: 19.3 liters

SAMPLERS:	TC	SAMPLING TIME (START/END) :	1050
SAMPLING DATE:	10/18/95	DECONTAMINATION FLUIDS USED:	N/A
SAMPLE TYPE:	lowflowgrab	SAMPLE PRESERVATIVES:	HCl HNO_3 NaOH
SAMPLE BOTTLE IDs:	BN-02-09 - MW915		
SAMPLE PARAMETERS:	VOC Metals CN		

COMMENTS AND OBSERVATIONS:

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FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME:	Site 9	PROJECT NUMBER:	2960047
WELL I.D.:	~~DUMMW 2~~ MW 916	WELL LOCK:	Y
WELL CONDITION:	OK	WEATHER:	Cloudy
GAUGE DATE:	5-18-95	GAUGE TIME:	1057
SOUNDING METHOD:	Slope Indicator	MEASUREMENT REF:	PVC
STICK UP/DOWN (ft):	1.92	WELL DIAMETER (in.):	2"
PURGE DATE:	5-18-95	PURGE TIME:	1100
PURGE METHOD:	Grundfos	FIELD TECHNICIAN:	JN BW
AMBIENT AIR VOCs (ppm)	0ppm	WELL MOUTH VOCs (ppm):	0ppm

WELL VOLUME

A. WELL DEPTH (ft):	19.04	D. WELL VOLUME/FT:	0.16
B. DEPTH TO WATER (ft):	10.72	E. WELL VOLUME (gal) (C*D):	1.33
C. LIQUID DEPTH (ft) (A-B):	8.32	F. THREE WELL VOLUMES (gal) (E*3):	3.99

	BEGINNING	Number of Well Volumes Purged				
		1	2	3	4	5
TIME (min)	1105	1113	1123			
DEPTH TO WATER (ft)	10.72	→	→			
PURGE RATE (l/min)	400 mL/min	→	→			
VOLUME PURGED (gal)						
pH	6.41	6.42	6.42			
TEMPERATURE (C)	13.5	14.3	14.9			
CONDUCTIVITY (µmhos/cm)	.523	.513	.508			
DISSOLVED OXYGEN (µg/L)	4.38	4.33	4.00			
eh (mv)						
TURBIDITY (NTU)	41	6	3			

TOTAL QUANTITY OF WATER REMOVED ~~(gal)~~ Lit: 10.4 Liters

SAMPLERS: BW JN

SAMPLING TIME (START/END): 1125

SAMPLING DATE: 5-18-95

DECONTAMINATION FLUIDS USED: N/A

SAMPLE TYPE: Low Flow Grab

SAMPLE PRESERVATIVES: Y HCL, NaOH HNO_3

SAMPLE BOTTLE IDs: ~~01~~-02-59-MW 916

SAMPLE PARAMETERS: VOC's metals CN

COMMENTS AND OBSERVATIONS:

Appendix B.3

Field Record of Surface Water and Sediment Sampling

EA ENGINEERING, SCIENCE, AND TECHNOLOGY, INC.

FIELD RECORD OF SURFACE WATER AND SEDIMENT SAMPLING

Project: BNAS			Site: #9
Project Number: 2960047 ~~F-1066~~ 7200			Date: 5/17/95
Sample Location ID: SW/SD010			Sample Team Members: BW/JN
Time:	Start: 1300	End: 1305	Signature of Sampler: [illegible]

SURFACE WATER INFORMATION

Water Depth and Sample Location 21.0 (ft)

Depth of Sample from Top of Water 20.5 (ft)

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

Equipment Used for Collection:
( ) None, Grab into Bottle
( ) Bomb Sampler
(X) ~~Pump~~ DEDICATED 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? (X) No ( ) Yes, See Flow Measurement Data Record _____

Temperature 11.0 Degree C. Specific Conductivity .262 µmhos/cm pH 6.45 Units Dissolved Oxygen 5.13 ppm Turbidity 0 NTU

Field QC Data: (✓) Field Duplicate Collected
Duplicate ID _____
See below

Sample Location Sketch:
( ) Yes
(X) No

Method Used:
( ) Winkler
(X) 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
(X) Hand Spoon
(X) Aluminum Pans
( ) Stainless Steel Bucket
( ) _____

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

Sample Observations:
( ) Odor none observed
( ) Color varied c/f brown to black
( ) _____

Field QC Data: (X) Field Duplicate Collected
Duplicate ID BN-02-S9-SW010 Dup
BN-02-S9-SD010 Dup

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	4 VOA 4 8oz	✓				

NOTES/SKETCH

Bottle labeled: BN-02-S9SW-010
BN-02-S9SD-010
Parameters: VOC's (preserved in the field) ~~[illegible]~~ ~~[illegible]~~
Soils: VOC's, SVOC's

EA ENGINEERING, SCIENCE, AND TECHNOLOGY, INC.

FIELD RECORD OF SURFACE WATER AND SEDIMENT SAMPLING

Project: BNAS			Site: #9
Project Number: 2960047 ~~F1666~~ 7200			Date: 5/17/95
Sample Location ID: SW/SD011			Sample Team Members: BW/JN
Time:	Start: 1330	End: 1335	Signature of Sampler: [signature]

SURFACE WATER INFORMATION

Water Depth and Sample Location 6.0 (ft)

Depth of Sample from Top of Water 6.0-3 (ft)

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

Equipment Used for Collection:
( ) None, Grab into Bottle
( ) Bomb Sampler
(X) ~~Pump~~ DEDICATED 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 10.1 Degree C. Specific Conductivity 225 µmhos/cm pH 6.91 Units Dissolved Oxygen 7.26 ppm Turbidity 1 NTU

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

Sample Location Sketch:
( ) Yes
(X) No

Method Used:
( ) Winkler
(X) Probe

SEDIMENT INFORMATION

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

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

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

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

Sample Observations:
( ) Odor none observed
( ) Color varied LT brown - black
( ) _____

Field QC Data: ( ) Field Duplicate Collected
NA 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	2 VOA 2 3oz	✓				

NOTES/SKETCH

Bottles labeled: BN-02-59-SW-011
BN-02-59-SD-011

prometer9! - VOC's preserved in field
- soils VOC's, SVOC's

EA ENGINEERING, SCIENCE, AND TECHNOLOGY, INC.

FIELD RECORD OF SURFACE WATER AND SEDIMENT SAMPLING

Project: BNAS			Site: #9
Project Number: 29600.47 ~~7200~~ cc 7200			Date: 5/17/95
Sample Location ID: SW/SD 012			Sample Team Members: BW/JN
Time:	Start: 1045	End: 1050	Signature of Sampler: John New

SURFACE WATER INFORMATION

Water Depth and Sample Location 2.0 (ft)

Depth of Sample from Top of Water 2.0-5 (ft)

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

Equipment Used for Collection:
( ) None, Grab into Bottle
( ) Bomb Sampler
(X) ~~Pump~~ DEDICATED 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 10.1 Degree C. Specific Conductivity 224 µmhos/cm pH 6.93 Units Dissolved Oxygen 7.36 ppm Turbidity 1 NTU

Field QC Data: ( ) Field Duplicate Collected
~~[illegible]~~ Duplicate ID _____
see below

Sample Location Sketch:
( ) Yes
(X) No

Method Used:
( ) Winkler
(X) Probe

SEDIMENT INFORMATION

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

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

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

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

Sample Observations:
( ) Odor none observed
( ) Color varied lt brown — black
( ) _____

Field QC Data: (X) Field Duplicate Collected
Duplicate ID BN-02-S9-SW012MS/MSD
BN-02-S9-SD012MS/MSD
cc

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	5 x 6 x 4 VOA 8oz	✓				

NOTES/SKETCH

~~[illegible]~~ bottle labeled: BN-02-S9 SW-012
BN-02-S9 SD-02
promoters: - VOC's preserved in field
+ solls VOC's, SVOC's

EA ENGINEERING, SCIENCE, AND TECHNOLOGY, INC.

FIELD RECORD OF SURFACE WATER AND SEDIMENT SAMPLING

Project: BNAS			Site: #9
Project Number: 29600.47 T-TOSC 7200			Date: 5/17/95
Sample Location ID: SW/SD 915			Sample Team Members: BW/JW
Time:	Start: 1420	End: 1425	Signature of Sampler: [illegible]

SURFACE WATER INFORMATION

Water Depth and Sample Location 6.0 (ft)

Depth of Sample from Top of Water 0.5 (ft)

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

Equipment Used for Collection:
( ) None, Grab into Bottle
( ) Bomb Sampler
(X) Pump DEDICATED 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 9.5 Degree C. Specific Conductivity .243 µmhos/cm pH 6.88 Units Dissolved Oxygen 6.65 ppm Turbidity 0 NTU

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

Sample Location Sketch:
( ) Yes
(X) No

Method Used:
( ) Winkler
(X) Probe

SEDIMENT INFORMATION

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

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

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

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

Sample Observations:
( ) Odor none observed
( ) Color varied lt. brown - black
( ) _____

Field QC Data: ( ) Field Duplicate Collected NA
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	2 VOA 8oz	✓				

NOTES/SKETCH

Bottle label BN-02-59-SW-915
BN-02-59SD-915
preservatives voc's preserved in field
Solids - voc's, svoc's

EA ENGINEERING, SCIENCE, AND TECHNOLOGY, INC.

FIELD RECORD OF SURFACE WATER AND SEDIMENT SAMPLING

Project: BNAS			Site: #9
Project Number: 29600.47 ~~FHOCC~~ 7200			Date: 5/17/95
Sample Location ID: SW/SD 916			Sample Team Members: BW/JN
Time:	Start: 1035	End: 1040	Signature of Sampler: [signature]

SURFACE WATER INFORMATION

Water Depth and Sample Location 6.0 (ft)

Depth of Sample from Top of Water 0.5 (ft)

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

Equipment Used for Collection:
( ) None. Grab into Bottle
( ) Bomb Sampler
(X) ~~Pump~~ DEDICATED JAR

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 10.5 Degree C. Specific Conductivity .222 µmhos/cm pH 6.92 Units Dissolved Oxygen 7.58 ppm Turbidity 0 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
(X) Hand Spoon
(X) Aluminum Pans
( ) Stainless Steel Bucket
( ) _____

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

Sample Observations:
( ) Odor None observed
( ) Color varied Lt brown to black
( ) _____

Field QC Data: ( ) Field Duplicate Collected
N/A 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	2 VOA 2 8oz	✓				

NOTES/SKETCH

Bottles labeled: BN-02-59-SW-916
BN-02-59-SD-916
Prometals VOC's preserved in field
Soil VOC's
~~Annual~~ Annually sampled

EA ENGINEERING, SCIENCE, AND TECHNOLOGY, INC.

FIELD RECORD OF SURFACE WATER AND SEDIMENT SAMPLING

Project: BNAS			Site: #9
Project Number: 29600.47 ~~F1000~~ 7200			Date: 5/17/95
Sample Location ID: SW/SD 919			Sample Team Members: BW/JN
Time:	Start: 1350	End: 1355	Signature of Sampler: [signature]

SURFACE WATER INFORMATION

Water Depth and Sample Location <1.0 (ft)

Depth of Sample from Top of Water <0.5 (ft)

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

Equipment Used for Collection:
( ) None, Grab into Bottle
( ) Bomb Sampler
(X) ~~Pump~~ DEDICATED 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 9.9 Degree C. Specific Conductivity 233 µmhos/cm pH 6.87 Units Dissolved Oxygen 7.62 ppm Turbidity 0 NTU

Field QC Data: ( ) Field Duplicate Collected
NA 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
(X) Hand Spoon
(X) Aluminum Pans
( ) Stainless Steel Bucket
( ) _____

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

Sample Observations:
( ) Odor none observed
( ) Color varied LI brown to black
( ) _____

Field QC Data: ( ) Field Duplicate Collected
NA 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	2 VOA 2 SOZ	✓				

NOTES/SKETCH

Bottle labeled: BN-02-5 SW-919
BN-02-5 SD-919

Parameters: VOC's (preserved in field)
soil VOC's, SVOC's

EA ENGINEERING, SCIENCE, AND TECHNOLOGY, INC.

FIELD RECORD OF SURFACE WATER AND SEDIMENT SAMPLING

Project: BNAS			Site: #9
Project Number: 29E0047 F1000 CC 7200			Date: 5/17/95
Sample Location ID: SW1S0922			Sample Team Members: BW/JN
Time:	Start: 1020	End: 1025	Signature of Sampler: [signature]

SURFACE WATER INFORMATION

Water Depth and Sample Location 1.0 (ft)

Depth of Sample from Top of Water 0.5 (ft)

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

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

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

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

Temperature 18.5 JN Degree C. Specific Conductivity 1.236 JN µmhos/cm pH 6.35 Units Dissolved Oxygen 7.28 ppm Turbidity 1 NTU

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

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
(X) Hand Spoon
(X) Aluminum Pans
( ) Stainless Steel Bucket
( ) _____

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

Sample Observations:
( ) Odor none observed
( ) Color normal br brown - black
( ) _____

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

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	VOA 22	✓				

NOTES/SKETCH

Bottles labeled BN-02-S9-SW-922
BN-02-S950-922

Parameters VOC (preserved in field)
Soil VOC's, SVOC's
Surface water sample added to sampling label via Mikro Bottle

EA ENGINEERING, SCIENCE, AND TECHNOLOGY, INC.

FIELD RECORD OF SURFACE WATER AND SEDIMENT SAMPLING

Project: BNAS			Site: #9
Project Number: 29600.47 T-~~1005~~ 7200			Date: 5/17/95
Sample Location ID: LT901			Sample Team Members: BW/JN
Time:	Start: 1501	End: 1545	Signature of Sampler: [signature]

SURFACE WATER INFORMATION

Water Depth and Sample Location <1.0 (ft)

Depth of Sample from Top of Water <0.5 (ft)

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

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

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

Temperature 9.9 Degree C. Specific Conductivity .314 µmhos/cm pH 6.60 Units Dissolved Oxygen .07 ppm Turbidity 349 NTU

Field QC Data: (✓) Field Duplicate Collected
Duplicate ID See below

Sample Location Sketch:
( ) Yes
(X) No

Method Used:
( ) Winkler
(X) 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
(X) Hand Spoon
(X) Aluminum Pans
( ) Stainless Steel Bucket
( ) _____

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

Sample Observations:
( ) Odor none observed
( ) Color lt brown to black (varies)
( ) _____

Field QC Data: (X) Field Duplicate Collected
Duplicate ID BN-02-S9-LT901MS/MSD
BN-02-S9-LT901SD 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			
	✓	✓	HCL HNO_3 H_2SO_4	4 4 VOA OTHER SOIL	✓				

NOTES/SKETCH

Bottle labeled BN-02-S9-LT901
Soils BN-02-S9-LT901-SD
Parameters VOC's (preserved in the field) Tot elements

Appendix C

Analytical Data Quality Review

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APPENDIX C

REVIEW OF ANALYTICAL QUALITY CONTROL

C.1 INTRODUCTION

This investigation utilized both field quality control measures and analytical laboratory quality control measures to ensure that the data quality objectives presented in the project-specific Quality Assurance Project Plan (QAPP) contained in the long-term monitoring plan (ABB-ES 1994) were met.

The sampling program consisted of 23 aqueous (ground-water, surface water, and leachate seep) samples, and 9 sediment samples collected from Site 9. For the combined analyses for this site, 2 aqueous Sample Delivery Groups (SDGs) and 1 sediment SDG were provided to the laboratory. Sample duplicates, rinsate blanks, and trip blanks were collected at the frequency required by the QAPP.

The analytical quality control was reviewed for compliance with the data quality objective of precision and accuracy for each sample and analysis type, including field quality control blanks (trip, field, and rinsate blanks), and field sample duplication. 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 to the number of samples scheduled for collection.

The following sections summarize the results of this program.

C.1.1 Field Sampling Program Quality Control

A quality control duplicate sample was collected for each matrix (i.e., soil and water) and analyzed for the same parameters as the original environmental samples. To document the effectiveness of decontamination protocols, a rinse blank sample was taken by running de-ionized water through decontaminated sampling equipment and into the appropriate sample containers and analyzing for the same parameters as the environmental samples. To determine whether there was the potential for cross-contamination during sample storage and shipment in the sample coolers, trip blanks were sent with any sample cooler that contained aqueous samples.

Trip blanks were analyzed for VOC by U.S. Environmental Protection Agency (EPA) Method 8260. Laboratory quality assurance/quality control included the introduction of spiked samples and spiked duplicate samples, as well as laboratory control samples (LCS) and method blanks.

C.1.2 Laboratory Analytical Quality Control Program

Soil and water samples collected from the monitoring sites were analyzed for target compound list (TCL) volatile organics by EPA Method 8260, TCL semivolatiles by EPA Method 8270, Target Analyte List (TAL) metals by the following EPA Methods: Arsenic by EPA Method 7060, Chromium by EPA Method 7191, Lead by EPA Method 7421, Selenium by EPA Method 7740, Thallium by EPA Method 7841, Mercury by EPA Method 7470, and the remainder of TAL metals by EPA Method 6010. The quality control measures specified in the methods, as well as those in the QAPP, were used by the laboratory to establish proper analytical quality control.

Analytical quality control results were reviewed for compliance with the data quality objectives of precision, accuracy, and completeness for each sample and analysis type. Analytical precision was based upon the mean RPD values from the MS/MSD. Accuracy was based upon the reported spike recoveries for the MS/MSD, LCS, and surrogate (system monitoring compound) recoveries for the samples. Completeness was quantified by reviewing the number of usable results to the number of samples scheduled for collection. The range of results for the data quality objective parameters are discussed for each sample matrix in the subsection below.

C.2 SAMPLE HOLDING TIMES

The holding times from dates of collection to sample processing were compared against the maximum holding times identified in the quality control requirements of the referenced analytical methods. The holding times were met for all parameters and sample matrixes.

C.3 PRECISION

C.3.1 Volatile Organic Compounds

Five volatile compounds are used to quantify the MS/MSD RPDs. The control limits identified in the QAPP were the same as those reported by the laboratory.

The surface water, leachate seep, and monitoring well aqueous samples MS/MSD RPDs were within the laboratory established control limits. The sediment samples MS/MSD RPDs were within the established control limits. The results are usable as reported.

C.3.2 Semivolatile Organic Compounds

Eleven compounds are used to quantify the MS/MSD RPDs. The control limits identified in the QAPP for soil and water were the same as those reported by the laboratory. The latter limits were those used by EPA for the Contract Laboratory Program.

The sediment samples MS/MSD RPD were within the laboratory established control limits, with the exception of pyrene. In Sample S9SD012, the laboratory reported that the results of the MS/MSD RPD could not be calculated, due to the fact that they had reported the MSD as not calculable. Usability of the data is not affected, as no actions are usually taken for MS/MSD, according to EPA Region I data validation criteria.

C.3.3 Target Analyte List Metal Analytes

Fourteen analytes are used to quantify the MS/MSD RPD. There were no control limits identified in the QAPP for soil and water RPD as MSD are not usually run for TAL metals.

The sediment samples MS/MSD RPD fell within 35 percent (which is a standard measure for RPD percent calculation), with the exception of the following analytes: Aluminum (75 percent), cadmium (39 percent), iron (202 percent), and mercury (72 percent). Usability of the data is not affected as MSD are typically not run for TAL metal analytes. No actions were taken according to EPA Region I data validation criteria.

The aqueous samples MS/MSD RPD all fell within the standard measure of 35 percent RPD. The results were usable as reported.

C.4 ACCURACY

C.4.1 Volatile Organic Compounds

Three system monitoring compounds were used to quantify the surrogate recovery in the samples. The control limits identified in the QAPP for the three compounds in an aqueous matrix are as follows: Toluene-d8 (88-110 percent), Bromoflurobenzene (86-115 percent), and 1,2-dichloroethane-d4 (76-114 percent). The control limits identified in the QAPP for the three compounds in a soil matrix are as follows: Toluene-d8 (84-138 percent), Bromoflurobenzene (59-113 percent), and 1,2-dichloroethane-d4 (70-121 percent). These control limits were slightly different from those reported by the laboratory. The laboratory control limits are as follows: in water matrix, Toluene-d8 (88-110 percent), Bromoflurobenzene (86-115 percent) and 1,2--dichloroethane-d4 (86-118 percent). In a soil matrix the following limits apply: Toluene-d8 (81-117 percent), Bromoflurobenzene (74-121 percent), and 1,2-dichloroethane-d4 (80-120 percent). The latter control limits are continually updated by the laboratory and represent the most appropriate values for comparison of the quality control results. However, the quality control results were reviewed against both sets of control limits.

The monitoring well aqueous sample system monitoring compounds recoveries were within the laboratory established control limits and the control limits identified in the QAPP. The results are usable as reported.

The sediment sample system monitoring compounds recoveries were within the laboratory established control limits and the control limits identified in the QAPP, with the exception of the following: Bromoflurobenzene was below the lower control limit identified in the QAPP in 4 out of 9 samples (S9SD916, S9SD010, S9SD011, and S9SD901). Toluene-d8 was below the lower control limit identified in the QAPP in one sample (S9SD919). The samples associated with these surrogates are likely to be bias low due to possible matrix interference.

Five volatile compounds are used to quantify the MS/MSD recoveries with laboratory established control limits for each spiking analyte. An MS/MSD was analyzed at the correct frequency for each matrix.

The monitoring well aqueous samples MS/MSD recoveries were within both the laboratory established control limits and the control limits identified in the QAPP, with the exception 1,1-Dichloroethene (158 percent and 154 percnet) which was above the upper control limit identified by both the laboratory and the QAPP in Sample S9MW904. In Sample S9SW012, 1,1-Dichloroethene (44 percent) was below the lower control limit identified by both the laboratory and the QAPP. No usability actions were taken for MS/MSD as per EPA Region I data validation criteria, therefore, the results are usable as reported.

The sediment sample MS/MSD recoveries were within both the laboratory established control limits and the control limits identified in the QAPP. The results are usable as reported.

Five volatile organic compounds are used to quantify the LCS recoveries with laboratory established control limits for each spiking analyte. The aqueous samples and the sediment samples all had LCS recoveries within laboratory established control limits. The results are usable as reported.

C.4.2 Semivolatile Organic Compounds

Eight compounds were used to quantify the surrogate recoveries in the samples. The sediment surrogate recoveries were within the laboratory established control limits. The results are usable as reported.

Eleven compounds were used to quantify the MS/MSD recoveries for aqueous samples. Sediment MS/MSDs were analyzed at the correct frequency.

The sediment samples MS/MSD recoveries were within both the laboratory established control limits and the control limits identified in the QAPP with the exception of pyrene, which was reported for MS recovery at 10 percent, which is below the lower control limit of 35 percent.

Pyrene was reported by the laboratory as not calculable for MSD recovery. No usability actions were taken for MS/MSD as per EPA Region I data validation criteria, therefore, the results are usable as reported.

Eleven volatile organic compounds are used to quantify the LCS recoveries with laboratory established control limits for each spiking analyte. The sediment LCS recoveries were within laboratory established control limits. The results are usable as reported.

C.4.3 Target Analyte List Metal Analytes

Fourteen analytes were used to quantify MS/MSD recoveries for aqueous samples. All of the MS recoveries were analyzed at the correct frequency.

The monitoring well aqueous sample MS/MSD recoveries for Sample S9MW906 were within both the laboratory established control limits and the control limits identified in the QAPP (75-125 percent), with the exception of the following analytes: Cadmium (55, 48 percent) which was reported below the lower control limit for both MS and MSD respectively, indicating a possible low bias. Cyanide (2 percent) which was run only for MS, was reported below the lower control limit indicating a possible low bias. Mercury (177, 195 percent) was reported above the upper limit for both MS and MSD, respectively, indicating a possible high bias. Aluminum and iron both reported MS recoveries above the upper control limit (143 and 214 percent, respectively) and MSD recoveries below the lower control limit (73 and 13 percent, respectively). Due to the large RPD percent between the MS and MSD for aluminum and iron the bias is not determinable. No actions are taken for MS/MSD according to the EPA Region I data validation criteria, therefore, the results are usable as reported.

The surface water aqueous sample MS/MSD recoveries for sample S9SW012 had 9 analytes (barium, beryllium, cadmium, chromium, cobalt, copper, nickel, silver, and vanadium) where the MS was reported above the upper control limit and the MSD was reported below the lower control limit. The bias indication is indeterminant. Antimony (36, 36 percent) was reported below the lower control limit for both MS/MSD, indicating a low bias. No actions were taken for MS/MSD according to EPA Region I data validation criteria, however, it should be taken into consideration that 9 of 14 analytes were considered to be indeterminant for biases due to the fact that the MS/MSD reported results varied greatly.

The sediment sample MS/MSD recoveries for sample S9SD012 were within both the laboratory established control limits and the control limits identified in the QAPP (75-125 percent), with the exception of antimony. The MSD percent recovery for antimony (62 percent) was reported at below the lower control limit. No actions were taken according to EPA Region I data validation guidelines. The results are usable as reported.

Fourteen TAL metal compounds are used to quantify the LCS recoveries with laboratory established control limits for each spiking analyte. It should be noted that cyanide was not run for LCS recovery. The monitoring well and surface water aqueous LCS recoveries were within

laboratory established control limits. The results were usable as reported. The sediment LCS recoveries were within laboratory established control limits. The results were usable as reported.

C.5 COMPLETENESS

All of the planned samples and the corresponding trip, rinsate, and source water blanks were collected. One trip blank was collected in SDG S9SMW906. One rinsate blank was collected in the surface water aqueous SDG-S9SW012, and one rinsate blank was collected in the sediment soils SDG-S9SD012. Rinsate blanks were not required for the ground-water aqueous SDG since dedicated pumping systems were used to obtain the samples. One source water blank sample was collected under a separate SDG.

C.6 FIELD QUALITY CONTROL BLANKS

The field quality control blanks collected for this site included trip blanks and rinsate blanks. The trip blank was reported free of detectable volatile analytes (except for concentrations of acetone at 6 μg/L and methylene chloride at 3 μg/L, which were detected in the associated method blanks). Acetone and methylene chloride are common laboratory contaminants. At the level of concentration that they were detected in these trip blanks, it is likely that they were introduced in the laboratory.

Rinsate blank S9RB001 (associated with SDG S9SW012) contained the following volatile compound contaminants: Acetone (25 μg/L), methylene chloride (2 μg/L) (both of which were detected in the trip blank), total xylenes (11 μg/L), 2-butanone (4 μg/L), toluene (4 μg/L), and ethylbenzene (2 μg/L). Rinsate blank S9RB001 (associated with SDG S9SD012 contained the following volatile compound contaminants: Acetone (25 μg/L), methylene chloride (2 μg/L) (both of which were detected in the trip blank), total xylenes (11 μg/L), 2-butanone (4 μg/L), toluene (4 μg/L), and ethylbenzene (2 μg/L). This rinsate blank was also run for TAL metal analyte contamination. The following analytes were detected: Aluminum (44 μg/L), arsenic (1.7 μg/L), calcium (19.4 μg/L), iron (20.4 μg/L), sodium (35.9 μg/L), and zinc (5.6 μg/L), however, similar concentrations of these same analytes were reported in the source water blank. This rinsate blank had an unusually high number of volatile contaminants at concentrations above the Contract Required Quantification Limit. This is an indication that the field sampling team should re-evaluate and possibly modify the current equipment decontamination procedures.

C.7 DUPLICATE FIELD SAMPLES

Field duplicate samples were identified to the laboratory. Duplicate field samples were collected during the monitoring well ground-water sampling program and the sediment sampling program. Sample duplication was evaluated using the RPDs between the original and duplicated results.

The RPD results from the duplicate monitoring well samples (SDG-S9MW906) are shown in the table below:

Analyte	Units	MW903	MW903 Dup	RPD (%)
Acetone	µg/L	2	2	0.0
Methylene chloride	µg/L	2	1	66.7
Arsenic	µg/L	4	4.1	2.5
Barium	µg/L	7.3	7.2	1.4
Calcium	µg/L	13,800	13,000	6.0
Iron	µg/L	5,990	5,570	7.3
Magnesium	µg/L	6,460	6,080	6.1
Manganese	µg/L	345	327	5.4
Nickel	µg/L	0	7.4	200.0
Potassium	µg/L	2,590	2,200	16.3
Sodium	µg/L	26,400	24,800	6.3
Zinc	µg/L	9.5	6.4	39.0
Cyanide	µg/L	15.1	15.6	3.3

The RPD for acetone, arsenic, barium, calcium, iron, magnesium, manganese, potassium, sodium, zinc, and cyanide were in reasonable agreement between the analyses. The RPD discrepancy for methylene chloride and nickel are not considered significant since the reported results were near the reporting limit.

The RPD results from the duplicate surface water samples (SDG-S9SW012) are shown in the table below:

Analyte	Units	SW010	SW010 Dup	RPD (%)
Acetone	µg/L	1	1	0.0
1,2 Dichloroethene	µg/L	1	1	0.0

The reported RPD results for both acetone and 1,2-Dichloroethene are in agreement.

The RPD results from the duplicate sediment samples (SDG-S9SD012) are shown in the table below:

Analyte	Units	SED010	SED010 Dup	RPD (%)
Acetone	µg/L	9.18513e+72	1.33231e+69	36.4
Methylene chloride	µg/L			142.9
Trichloroethene	µg/L			85.7
1,2 Dichloroethene	µg/L			125.0
Naphthalene	µg/L			40.0
Acenaphthene	µg/L			9.5
Fluorene	µg/L			5.6
Dibenzofuran	µg/L			0.0
Phenanthrene	µg/L			18.9
Anthracene	µg/L			13.3
Carbazole	µg/L			32.4
Di-n-butylphthalate	µg/L			36.1
Fluoranthene	µg/L			10.3
Pyrene	µg/L			6.9
Benzo(a)anthracene	µg/L			14.9
Chrysene	µg/L			0.0
Bis(2-ethylhexyl)phalate	µg/L			56.7
Benzofluoranthene	µg/L			10.9
Benzo(a)pyrene	µg/L			7.4
Indeno(1,2,3)pyrene	µg/L			2.4
Dibenzoanthracene	µg/L			7.4
Benzoperylene	µg/L			5.3
1 4 Dichlorobenzene	µg/L			121.8
2 Methylnapthalene	µg/L			71.5
Acenaphthylene	µg/L			85.7

The RPD discrepancies for the above analytes may be attributable to the fact that they are solid sediment samples and are not necessarily homogenous. The results are usable as reported.

Appendix D

Summary Tables for Analyses of Tentatively Identified Compounds

TABLE D-1 SUMMARY OF TENTATIVELY IDENTIFIED COMPOUNDS REPORTED IN SURFACE WATER SAMPLES COLLECTED 17 MAY 1995 AT SITE 9, NAVAL AIR STATION, BRUNSWICK, MAINE

Analyte	SW-010	SW-010 DUP	SW-011	SW-012	SW-915	SW-916	SW-919	SW-922	TB-001 (5/19/95)
VOLATILE ORGANIC COMPOUNDS BY EPA METHOD 8260 (μg/L)									
Propanal (RT 5.99 min)					7JN				

NOTE: Only those analytes detected in at least one of the samples are shown on this table.
JN = Presumptiveidentification, stimated value.
TB = Trip blank.

TABLE D-2 SUMMARY OF TENTATIVELY IDENTIFIED COMPOUNDS REPORTED IN SEDIMENT SAMPLES COLLECTED 17 MAY 1995 AT SITE 9, NAVAL AIR STATION, BRUNSWICK, MAINE

Compound	SD-010	SD-010[a]	SD-010 DUP	SD-011	SD-011 [a]	SD-012	SD-915	SD-916	SD-916 [a]	SD-919	SD-919 [a]	SD-922	TB-001 (µg/L) (5/19/95)	RB-001 (µg/L) (5/17/95)
VOLATILE ORGANIC COMPOUNDS BY EPA METHOD 8260 (µg/kg)														
Acetaldehyde (RT 3.75 min)														15JN
Alkane (RT 20.30 min)										58J				
Alkane (RT 20.64 min)										9J				
C10H14 isomer (RT 21.42 min)					11J									
C10H14 isomer (RT 21.54 min)					21J									
Alkane (RT 21.69 min)		11J												
C10H14 isomer (RT 21.83 min)				93J										
C10H14 isomer (RT 21.85 min)					68J									
Alkane (RT 22.00 min)										29J				
Alkane (RT 22.21 min)										7J				
C10H14 isomer (RT 22.33 min)				44J										
C10H14 isomer (RT 22.35 min)					31J									
C10H14 isomer (RT 22.61 min)				69J										
C10H14 isomer (RT 22.62 min)					55J									
Alkane (RT22.66 min)										32J				
C10H14 isomer (RT 22.95 min)				30J										
C10H14 isomer (RT 22.96 min)					22J									

(a) Reanalysis conducted on sample due to low recovery of surrogates.

NOTE: Only those analytes detected in at least one of the samples are shown on this table.
JN - Presumptive identification, estimated values
J - Estimated concentration below concentration limit.
RB - Equipment rinsate blank.
FB - Source water blank.

Compound	SD-010	SD-010[a]	SD-010 DUP	SD-011	SD-011 [a]	SD-012	SD-915	SD-916	SD-916 [a]	SD-919	SD-919 [a]	SD-922	TB-001 (µg/L) (5/19/95)	RB-001 (µg/L) (5/17/95)
VOLATILE ORGANIC COMPOUNDS BY EPA METHOD 8260 (µg/kg) (Continued)														
C10H12 isomer (RT 23.25 min)				59J										
C10H12 isomer (RT 23.26 min)					46J									
Alkane (RT 23.38 min)			8J											
Alkane (RT 23.39 min)											7J			
Alkane (RT 23.40 min)		11J												
Alkane (RT 23.43 min)										39J				
C10H12 isomer (RT 23.50 min)				150J										
C10H12 isomer (RT 23.52 min)					120J									
Alkane (RT 23.62 min)			7J											
Alkane (RT 23.63 min)											10J			
Alkane (RT 23.65 min)										62J				
C11H14 isomer (RT 24.07 min)				62J										
C10H14 isomer (RT 24.08 min)					51J									
Alkane (RT 24.35 min)										39J				
Alkane (RT 24.55 min)			10J											
C10H16 isomer (RT 24.55 min)					13J									
Alkane (RT 24.58 min)										52J				
C11H14 isomer (RT 24.80 min)				14J										
C11H16 isomer (RT 24.81 min)					13J									
Alkane (RT 24.97 min)		8J												
Alkane (RT 25.00 min)										14J				
Alkane (RT 26.15 min)											7J			
Alkane (RT 26.18 min)										26J				

Compound	SD-010	SD-010[a]	SD-010 DUP	SD-011	SD-011 [a]	SD-012	SD-915	SD-916	SD-916 [a]	SD-919	SD-919 [a]	SD-922	TB-001 (µg/L) (5/19/95)	RB-001 (µg/L) (5/17/95)
SEMIVOLATILE ORGANIC COMPOUNDS BY EPA METHOD 8270 (µg/kg)														
Unknown (RT 4.06 min)			550J											
Unknown (RT 4.09 min)						860J								
Unknown (RT 4.86 min)							890J							
1-Pentene, 3, 3-dimethyl- (RT 4.87 min)				3,100JN										
Unknown (RT 4.87 min)	1,200J													
Unknown (RT 4.90 min)			2,200J											
Unknown (RT 4.92 min)						1,000J								
Unknown (RT 5.51 min)							200J							
Unknown (RT 5.64 min)							410J							
Unknown (RT 5.65 min)	740J			1,900J										
Unknown (RT 5.67 min)			1,500J											
Unknown (RT 5.76 min)						610J								
Unknown Aldol (RT 6.07 min)			190J											
Propanoic acid, 2-hydroxy-2-methyl (RT 6.10 min)						240JN								
C10H14 isomer, MW = 134 (RT 11.92 min)				540J										
Substituted Phenol (RT 18.49 min)				630J										
Alkane (RT 19.60 min)	250J													
PAH, MW = 192 (RT 22.11 min)	250J													
PAH, MW = 192 (RT 22.13 min)			200J											
PAH, MW = 192 (RT 22.14 min)										870J				
PAH, MW = 192 (RT 22.19 min)	310J		230J											
PAH, MW = 192 (RT 22.20 min)											760J			

Compound	SD-010	SD-010[a]	SD-010 DUP	SD-011	SD-011 [a]	SD-012	SD-915	SD-916	SD-916 [a]	SD-919	SD-919 [a]	SD-922	TB-001 (µg/L) (5/19/95)	RB-001 (µg/L) (5/17/95)
SEMIVOLATILE ORGANIC COMPOUNDS BY EPA METHOD 8270 (µg/kg) (Continued)														
C15H12 isomer, MW=192 (RT 22.33 min)						220J								
PAH, MW = 190 (RT 22.38 min)	580J		440J											
PAH, MW = 190 (RT 22.39 min)										1,300J				
4H-Cyclopenta[def]phenanthrene (RT 22.40 min)						320JN								
2-Phenylnaphthalene (RT 22.93 min)										1,300JN				
9,10-Anthracenedione (RT 22.93 min)	450JN		500JN											
9,10-Anthracenedione (RT 22.96 min)						300JN								
11H-Benzo[b]fluorene (RT 25.38 min)	340JN													
11H-Benzo[b]fluorene (RT 25.39 min)			420JN											
11H-Benzo[b]fluorene (RT 25.40 min)										720JN				
C17H12 isomer MW = 216 (RT 25.40 min)						280J								
11H-Benzo[a]fluorene (RT 25.55 min)	300JN													
11H-Benzo[a]fluorene (RT 25.56 min)			290JN											
11H-Benzo[a]fluorene (RT 25.58 min)										470JN				
C17H12 isomer, MW = 216 (RT 25.58 min)						220J								
PAH, MW = 216 (RT 25.65 min)										360JN				
Alkane (RT 25.83 min)				1,300J										

Compound	SD-010	SD-010[a]	SD-010 DUP	SD-011	SD-011 [a]	SD-012	SD-915	SD-916	SD-916 [a]	SD-919	SD-919 [a]	SD-922	TB-001 (µg/L) (5/19/95)	RB-001 (µg/L) (5/17/95)
SEMIVOLATILE ORGANIC COMPOUNDS BY EPA METHOD 8270 (µg/kg) (Continued)														
Unknown, MW = 229 (RT 26.48 min)	340J													
Benzo[b]naphtho[2,1-d] thiophene (RT 26.99 min)										280JN				
PAH, MW = 226 (RT 27.05 min)			430J											
Benzo[ghi]fluoranthene (RT 27.07 min)										510JN				
Unknown, MW = 229 (RT 27.17 min)										210J				
Unknown (RT 27.05 min)	810J													
Unknown (RT 27.99 min)	260J													
Docosanoic acid (RT 28.13 min)				1,300JN										
Unknown, MW = 242 (RT 28.16 min)										260J				
Unknown (RT 28.26 min)										330J				
Alkane (RT 28.41 min)				860J										
Unknown (RT 28.70 min)				920J										
Unknown, phthalate ester (RT 28.83 min)							380J							
Unknown, phthalate ester (RT 28.85 min)										1,000J				
Unknown (RT 28.86 min)						350J								
Alkane (RT 29.20 min)	260J													
Alkane (RT 29.21 min)				8,600J										
Alkane (RT 29.23 min)						390J								
Alkane (RT 29.62 min)							330J							
Alkane (RT 29.64 min)						930J				1,200J				

Compound	SD-010	SD-010[a]	SD-010 DUP	SD-011	SD-011 [a]	SD-012	SD-915	SD-916	SD-916 [a]	SD-919	SD-919 [a]	SD-922	TB-001 (µg/L) (5/19/95)	RB-001 (µg/L) (5/17/95)
SEMIVOLATILE ORGANIC COMPOUNDS BY EPA METHOD 8270 (µg/kg) (Continued)														
Unknown, phthalate ester (RT 29.80 min)										1,600J				
Unknown, phthalate ester (RT 30.43 min)							470J							
Unknown, phthalate ester (RT 30.44 min)											9,700J			
Alkane (RT 30.72 min)			340J											
Alkane (RT 30.73 min)				6,100J										
Benzo[j]fluoranthene (RT 30.79 min)			890JN											
Benzo[j]fluoranthene (RT 30.80 min)							260JN							
Benzo[e]pyrene (RT 30.81 min)						470JN								
Benzo[j]fluoranthene (RT 30.83 min)											3.400JN			
Unknown (RT 31.82 min)				1,400J										
Alkane (RT 32.27 min)				3,000J										
Isoheptadecanol (RT 32.35 min)				2,200JN										
Unknown (RT 32.47 min)				850J										
D-Friedoolean-14-en-3-one (RT 34.68 min)			1,400JN	5,000JN										
D-Friedoolean-14-en-3-one (RT 34.69 min)	4,400JN													
D-Friedoolean-14-en-3-one (RT 34.71 min)						1,400JN								
Unknown (RT 34.82 min)				2,100J										
Unknown (RT 35.29 min)						870J								
Unknown (RT 35.46 min)	1,700J													
Unknown (RT 35.47 min)				1,400J										
Unknown (RT 35.51 min)						3,600J								

Compound	SD-010	SD-010[a]	SD-010 DUP	SD-011	SD-011 [a]	SD-012	SD-915	SD-916	SD-916 [a]	SD-919	SD-919 [a]	SD-922	TB-001 (µg/L) (5/19/95)	RB-001 (µg/L) (5/17/95)
SEMIVOLATILE ORGANIC COMPOUNDS BY EPA METHOD 8270 (µg/kg) (Continued)														
Unknown (RT 35.89 min)						790J								
Unknown (RT 36.06 min)				840J										
Unknown (RT 36.25 min)				1,600J										
Unknown (RT 36.29 min)						1,900J								
Unknown (RT 36.97 min)						390J								

TABLE D-3 SUMMARY OF TENTATIVELY IDENTIFIED COMPOUNDS REPORTED IN LEACHATE AND SEDIMENT SAMPLES COLLECTED 17 MAY 1995 AT SITE 9, NAVAL AIR STATION, BRUNSWICK, MAINE

Analyte	LT-901 (Leachate)	LT-901 (Sediment)	LT-901 (Sediment)[a]	TB-001 (5/19/95)
VOLATILE ORGANIC COMPOUNDS BY EPA METHOD 8260 (μg/L)				
Unknown (RT 22.31 min)		95J		
Unknown (RT 22.33 min)			15J	
Unknown (RT 25.10 min)		87J		
Unknown (RT 25.13 min)			16J	

(a) Reanalysis conducted due to low surrogate recoveries.

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 Site 9
Appendix E.2 Surface Water Samples Site 9
Appendix E.3 Sediment Samples Site 9
Appendix E.4 Leachate Seep and Sediment Samples Site 9

Appendix E.1

Ground-Water Samples
Site 9

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0785-7
Report Date: 06/13/95
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
S9MW901	Aqueous	J. NEWMAN	05/17/95	05/19/95

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	05/25/95	DW	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
Vinyl chloride	J1	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
Methylene chloride	JB2	µg/L	1.0	3.0	EPA 8260	05/25/95	DW	
Acetone	JB1	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
1,1-Dichloroethene	<1.	µg/L	1.0	1.0	EPA 8260	05/25/95	DW	
1,1-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
Total 1,2-Dichloroethene	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
1,1,1-Trichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	

* 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.

06/13/95

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REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0785-7
Report Date: 06/13/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9MW901	Aqueous	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	05/25/95	DW	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
Trichloroethene	<2.5	µg/L	1.0	2.5	EPA 8260	05/25/95	DW	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	05/25/95	DW	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	05/25/95	DW	
Tetrachloroethene	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
Toluene	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	

* 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.

06/13/95

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0785-7
Report Date: 06/13/95
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
S9MW901	Aqueous	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
Total Xylenes	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
Dibromofluoromethane (Surr.)	97.	%	1.0		EPA 8260	05/25/95	DW	
Toluene-d8 (Surr.)	97.	%	1.0		EPA 8260	05/25/95	DW	
p-Bromofluorobenzene (Surr.)	100.	%	1.0		EPA 8260	05/25/95	DW	

* 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.

06/13/95

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1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.:	S9MW906
Matrix (soil/water)	Water	Lab Sample ID:	S9MW901
Sample wt/vol:	5 (g/ml) ml	Lab File ID:	F1601.D
Level: (low/med)	low	Date Received:	5/19/95
% Moisture: not dec.	N/A	Date Analyzed:	5/25/95
GC Column:	RTX-624 ID: 0.18	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-0785-3
Report Date: 06/13/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9MW903	Aqueous	J. NEWMAN	05/17/95	05/19/95

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	05/24/95	DW	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	05/24/95	DW	
Vinyl chloride	<2.	µg/L	1.0	2.0	EPA 8260	05/24/95	DW	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	05/24/95	DW	
Methylene chloride	JB2	µg/L	1.0	3.0	EPA 8260	05/24/95	DW	
Acetone	JB1	µg/L	1.0	5.0	EPA 8260	05/24/95	DW	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	05/24/95	DW	
1,1-Dichloroethene	<1.	µg/L	1.0	1.0	EPA 8260	05/24/95	DW	
1,1-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	05/24/95	DW	
Total 1,2-Dichloroethene	<2.	µg/L	1.0	2.0	EPA 8260	05/24/95	DW	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	05/24/95	DW	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	05/24/95	DW	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	05/24/95	DW	
1,1,1-Trichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	05/24/95	DW	

* 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.

06/13/95

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0785-3
Report Date: 06/13/95
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
S9MW903	Aqueous	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	05/24/95	DW	
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	05/24/95	DW	
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	05/24/95	DW	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	05/24/95	DW	
Trichloroethene	<2.5	µg/L	1.0	2.5	EPA 8260	05/24/95	DW	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	05/24/95	DW	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	05/24/95	DW	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	05/24/95	DW	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	05/24/95	DW	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	05/24/95	DW	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	05/24/95	DW	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	05/24/95	DW	
Tetrachloroethene	<2.	µg/L	1.0	2.0	EPA 8260	05/24/95	DW	
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	05/24/95	DW	
Toluene	<2.	µg/L	1.0	2.0	EPA 8260	05/24/95	DW	

* 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

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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-0785-3
Report Date: 06/13/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9MW903	Aqueous	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	05/24/95	DW	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	05/24/95	DW	
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	05/24/95	DW	
Total Xylenes	<2.	µg/L	1.0	2.0	EPA 8260	05/24/95	DW	
Dibromofluoromethane (Surr.)	101.	%	1.0		EPA 8260	05/24/95	DW	
Toluene-d8 (Surr.)	99.	%	1.0		EPA 8260	05/24/95	DW	
p-Bromofluorobenzene (Surr.)	99.	%	1.0		EPA 8260	05/24/95	DW	

* 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

06/13/95

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1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.:	S9MW906
Matrix (soil/water)	Water	Lab Sample ID:	S9MW903
Sample wt/vol:	5 (g/ml) ml	Lab File ID:	F1594.D
Level: (low/med)	low	Date Received:	5/19/95
% Moisture: not dec.	N/A	Date Analyzed:	5/24/95
GC Column:	RTX-624 ID: 0.18	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-0785-4
Report Date: 06/13/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9MWDUP1	Aqueous	J. NEWMAN	05/17/95	05/19/95

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	05/25/95	DW	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
Vinyl chloride	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
Methylene chloride	JB1	µg/L	1.0	3.0	EPA 8260	05/25/95	DW	
Acetone	JB2	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
1,1-Dichloroethene	<1.	µg/L	1.0	1.0	EPA 8260	05/25/95	DW	
1,1-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
Total 1,2-Dichloroethene	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
2-Butanone	J1.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
1,1,1-Trichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	

* 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-0785-4
Report Date: 06/13/95
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
S9MWDUP1	Aqueous	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	05/25/95	DW	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
Trichloroethene	<2.5	µg/L	1.0	2.5	EPA 8260	05/25/95	DW	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	05/25/95	DW	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	05/25/95	DW	
Tetrachloroethene	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
Toluene	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	

* 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-0785-4
Report Date: 06/13/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9MWDUP1	Aqueous	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
Total Xylenes	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
Dibromofluoromethane (Surr.)	104.	%	1.0		EPA 8260	05/25/95	DW	
Toluene-d8 (Surr.)	99.	%	1.0		EPA 8260	05/25/95	DW	
p-Bromofluorobenzene (Surr.)	98.	%	1.0		EPA 8260	05/25/95	DW	

* 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

06/13/95

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1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.:	S9MW906
Matrix (soil/water)	Water	Lab Sample ID:	S9MWDUP1
Sample wt/vol:	5 (g/ml) ml	Lab File ID:	F1595.D
Level: (low/med)	low	Date Received:	5/19/95
% Moisture: not dec.	N/A	Date Analyzed:	5/25/95
GC Column:	RTX-624 ID: 0.18	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-0785-1
Report Date: 06/13/95
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
S9MW904	Aqueous	J. NEWMAN	05/17/95	05/19/95

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	05/24/95	DW	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	05/24/95	DW	
Vinyl chloride	3.	µg/L	1.0	2.0	EPA 8260	05/24/95	DW	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	05/24/95	DW	
Methylene chloride	JB2	µg/L	1.0	3.0	EPA 8260	05/24/95	DW	
Acetone	JB1	µg/L	1.0	5.0	EPA 8260	05/24/95	DW	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	05/24/95	DW	
1,1-Dichloroethene	<1.	µg/L	1.0	1.0	EPA 8260	05/24/95	DW	
1,1-Dichloroethane	J1.	µg/L	1.0	2.0	EPA 8260	05/24/95	DW	
Total 1,2-Dichloroethene	J1.	µg/L	1.0	2.0	EPA 8260	05/24/95	DW	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	05/24/95	DW	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	05/24/95	DW	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	05/24/95	DW	
1,1,1-Trichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	05/24/95	DW	

* 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.

06/13/95

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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-0785-1
Report Date: 06/13/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9MW904	Aqueous	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	05/24/95	DW	
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	05/24/95	DW	
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	05/24/95	DW	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	05/24/95	DW	
Trichloroethene	<2.5	µg/L	1.0	2.5	EPA 8260	05/24/95	DW	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	05/24/95	DW	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	05/24/95	DW	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	05/24/95	DW	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	05/24/95	DW	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	05/24/95	DW	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	05/24/95	DW	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	05/24/95	DW	
Tetrachloroethene	<2.	µg/L	1.0	2.0	EPA 8260	05/24/95	DW	
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	05/24/95	DW	
Toluene	<2.	µg/L	1.0	2.0	EPA 8260	05/24/95	DW	

* 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

06/13/95

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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-0785-1
Report Date: 06/13/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9MW904	Aqueous	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	05/24/95	DW	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	05/24/95	DW	
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	05/24/95	DW	
Total Xylenes	<2.	µg/L	1.0	2.0	EPA 8260	05/24/95	DW	
Dibromofluoromethane (Surr.)	105.	%	1.0		EPA 8260	05/24/95	DW	
Toluene-d8 (Surr.)	99.	%	1.0		EPA 8260	05/24/95	DW	
p-Bromofluorobenzene (Surr.)	99.	%	1.0		EPA 8260	05/24/95	DW	

* 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

06/13/95

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1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.:	S9MW906
Matrix (soil/water)	Water	Lab Sample ID:	S9MW904
Sample wt/vol:	5 (g/ml) ml	Lab File ID:	F1590.D
Level: (low/med)	low	Date Received:	5/19/95
% Moisture: not dec.	N/A	Date Analyzed:	5/24/95
GC Column:	RTX-624 ID: 0.18	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-0785-8
Report Date: 06/13/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9MW906	Aqueous	J. NEWMAN	05/17/95	05/19/95

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	05/25/95	DW	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
Vinyl chloride	J1	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
Methylene chloride	JB2	µg/L	1.0	3.0	EPA 8260	05/25/95	DW	
Acetone	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
1,1-Dichloroethene	<1.	µg/L	1.0	1.0	EPA 8260	05/25/95	DW	
1,1-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
Total 1,2-Dichloroethene	6.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
1,1,1-Trichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	

* 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.

06/13/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0785-8
Report Date: 06/13/95
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
S9MW906	Aqueous	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	05/25/95	DW	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
Trichloroethene	J1	µg/L	1.0	2.5	EPA 8260	05/25/95	DW	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	05/25/95	DW	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	05/25/95	DW	
Tetrachloroethene	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
Toluene	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	

* 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-0785-8
Report Date: 06/13/95
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
S9MW906	Aqueous	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
Total Xylenes	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
Dibromofluoromethane (Surr.)	96.	%	1.0		EPA 8260	05/25/95	DW	
Toluene-d8 (Surr.)	99.	%	1.0		EPA 8260	05/25/95	DW	
p-Bromofluorobenzene (Surr.)	99.	%	1.0		EPA 8260	05/25/95	DW	

* 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.

06/13/95

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VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.:	S9MW906
Matrix (soil/water)	Water	Lab Sample ID:	S9MW906
Sample wt/vol:	5 (g/ml) ml	Lab File ID:	F1602.D
Level: (low/med)	low	Date Received:	5/19/95
% Moisture: not dec.	N/A	Date Analyzed:	5/25/95
GC Column:	RTX-624 ID: 0.18	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-0785-9
Report Date: 06/13/95
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
S9MW907	Aqueous	J. NEWMAN	05/17/95	05/19/95

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	05/25/95	DW	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
Vinyl chloride	5.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
Methylene chloride	JB2	µg/L	1.0	3.0	EPA 8260	05/25/95	DW	
Acetone	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
Carbon disulfide	J1.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
1,1-Dichloroethene	<1.	µg/L	1.0	1.0	EPA 8260	05/25/95	DW	
1,1-Dichloroethane	J1.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
Total 1,2-Dichloroethene	J2	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
1,1,1-Trichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	

* 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-0785-9
Report Date: 06/13/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9MW907	Aqueous	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	05/25/95	DW	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
Trichloroethene	<2.5	µg/L	1.0	2.5	EPA 8260	05/25/95	DW	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	05/25/95	DW	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	05/25/95	DW	
Tetrachloroethene	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
Toluene	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	

* 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-0785-9
Report Date: 06/13/95
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
S9MW907	Aqueous	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
Total Xylenes	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
Dibromofluoromethane (Surr.)	98.	%	1.0		EPA 8260	05/25/95	DW	
Toluene-d8 (Surr.)	99.	%	1.0		EPA 8260	05/25/95	DW	
p-Bromofluorobenzene (Surr.)	97.	%	1.0		EPA 8260	05/25/95	DW	

* 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.:	S9MW906
Matrix (soil/water)	Water	Lab Sample ID:	S9MW907
Sample wt/vol:	5 (g/ml) ml	Lab File ID:	F1603.D
Level: (low/med)	low	Date Received:	5/19/95
% Moisture: not dec.	N/A	Date Analyzed:	5/25/95
GC Column:	RTX-624 ID: 0.18	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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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0785-10
Report Date: 06/13/95
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
S9MW908	Aqueous	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Volatile Organics by EPA 8260								
Chloromethane	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
Vinyl chloride	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
Methylene chloride	<3.	µg/L	1.0	3.0	EPA 8260	05/25/95	DW	
Acetone	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
1,1-Dichloroethene	<1.	µg/L	1.0	1.0	EPA 8260	05/25/95	DW	
1,1-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
Total 1,2-Dichloroethene	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
1,1,1-Trichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	

* 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-0785-10
Report Date: 06/13/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9MW908	Aqueous	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	05/25/95	DW	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
Trichloroethene	<2.5	µg/L	1.0	2.5	EPA 8260	05/25/95	DW	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	05/25/95	DW	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	05/25/95	DW	
Tetrachloroethene	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
Toluene	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
Total Xylenes	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	

* 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.

06/13/95

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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-0785-10
Report Date: 06/13/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9MW908	Aqueous	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Dibromofluoromethane (Surr.)	96.	%	1.0		EPA 8260	05/25/95	DW	
Toluene-d8 (Surr.)	99.	%	1.0		EPA 8260	05/25/95	DW	
p-Bromofluorobenzene (Surr.)	101.	%	1.0		EPA 8260	05/25/95	DW	

* 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.

06/13/95

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VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.:	S9MW906
Matrix (soil/water)	Water	Lab Sample ID:	S9MW908
Sample wt/vol:	5 (g/ml) ml	Lab File ID:	F1604.D
Level: (low/med)	low	Date Received:	5/19/95
% Moisture: not dec.	N/A	Date Analyzed:	5/25/95
GC Column:	RTX-624 ID: 0.18	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-0785-12
Report Date: 06/13/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9MW909	Aqueous	J. NEWMAN	05/18/95	05/19/95

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	05/25/95	DW	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
Vinyl chloride	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
Methylene chloride	JB2	µg/L	1.0	3.0	EPA 8260	05/25/95	DW	
Acetone	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
1,1-Dichloroethene	<1.	µg/L	1.0	1.0	EPA 8260	05/25/95	DW	
1,1-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
Total 1,2-Dichloroethene	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
1,1,1-Trichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	

* 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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REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0785-12
Report Date: 06/13/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9MW909	Aqueous	J. NEWMAN	05/18/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	05/25/95	DW	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
Trichloroethene	<2.5	µg/L	1.0	2.5	EPA 8260	05/25/95	DW	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	05/25/95	DW	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	05/25/95	DW	
Tetrachloroethene	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
Toluene	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	

* 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.

06/13/95

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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-0785-12
Report Date: 06/13/95
PO No. : 802LSQA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9MW909	Aqueous	J. NEWMAN	05/18/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
Total Xylenes	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
Dibromofluoromethane (Surr.)	99.	%	1.0		EPA 8260	05/25/95	DW	
Toluene-d8 (Surr.)	100.	%	1.0		EPA 8260	05/25/95	DW	
p-Bromofluorobenzene (Surr.)	102.	%	1.0		EPA 8260	05/25/95	DW	

* 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.

06/13/95

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VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.:	S9MW906
Matrix (soil/water)	Water	Lab Sample ID:	S9MW909
Sample wt/vol:	5 (g/ml) ml	Lab File ID:	F1606.D
Level: (low/med)	low	Date Received:	5/19/95
% Moisture: not dec.	N/A	Date Analyzed:	5/25/95
GC Column:	RTX-624 ID: 0.18	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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pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0785-13
Report Date: 06/13/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9MW910	Aqueous	J. NEWMAN	05/18/95	05/19/95

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	05/25/95	DW	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
Vinyl chloride	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
Methylene chloride	JB1	µg/L	1.0	3.0	EPA 8260	05/25/95	DW	
Acetone	JB2	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
1,1-Dichloroethene	<1.	µg/L	1.0	1.0	EPA 8260	05/25/95	DW	
1,1-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
Total 1,2-Dichloroethene	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
1,1,1-Trichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	

* 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-0785-13
Report Date: 06/13/95
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
S9MW910	Aqueous	J. NEWMAN	05/18/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	05/25/95	DW	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
Trichloroethene	<2.5	µg/L	1.0	2.5	EPA 8260	05/25/95	DW	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	05/25/95	DW	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	05/25/95	DW	
Tetrachloroethene	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
Toluene	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	

* 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.

06/13/95

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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-0785-13
Report Date: 06/13/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9MW910	Aqueous	J. NEWMAN	05/18/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
Total Xylenes	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
Dibromofluoromethane (Surr.)	100.	%	1.0		EPA 8260	05/25/95	DW	
Toluene-d8 (Surr.)	99.	%	1.0		EPA 8260	05/25/95	DW	
p-Bromofluorobenzene (Surr.)	100.	%	1.0		EPA 8260	05/25/95	DW	

* 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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1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.:	S9MW906
Matrix (soil/water)	Water	Lab Sample ID:	S9MW910
Sample wt/vol:	5 (g/ml) ml	Lab File ID:	F1607.D
Level: (low/med)	low	Date Received:	5/19/95
% Moisture: not dec.	N/A	Date Analyzed:	5/25/95
GC Column:	RTX-624 ID: 0.18	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-0785-2
Report Date: 06/13/95
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
S9MW914	Aqueous	J. NEWMAN	05/17/95	05/19/95

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	05/24/95	DW	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	05/24/95	DW	
Vinyl chloride	<2.	µg/L	1.0	2.0	EPA 8260	05/24/95	DW	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	05/24/95	DW	
Methylene chloride	JB2	µg/L	1.0	3.0	EPA 8260	05/24/95	DW	
Acetone	JB2	µg/L	1.0	5.0	EPA 8260	05/24/95	DW	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	05/24/95	DW	
1,1-Dichloroethene	J1	µg/L	1.0	1.0	EPA 8260	05/24/95	DW	
1,1-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	05/24/95	DW	
Total 1,2-Dichloroethene	<2.	µg/L	1.0	2.0	EPA 8260	05/24/95	DW	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	05/24/95	DW	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	05/24/95	DW	
2-Butanone	J2.	µg/L	1.0	5.0	EPA 8260	05/24/95	DW	
1,1,1-Trichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	05/24/95	DW	

* 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
(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-0785-2
Report Date: 06/13/95
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
S9MW914	Aqueous	J. NEWMAN	05/17/95	05/19/9

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	05/24/95	DW	
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	05/24/95	DW	
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	05/24/95	DW	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	05/24/95	DW	
Trichloroethene	<2.5	µg/L	1.0	2.5	EPA 8260	05/24/95	DW	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	05/24/95	DW	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	05/24/95	DW	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	05/24/95	DW	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	05/24/95	DW	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	05/24/95	DW	
4-Methyl-2-pentanone	JB3	µg/L	1.0	3.0	EPA 8260	05/24/95	DW	
2-Hexanone	JB3	µg/L	1.0	4.0	EPA 8260	05/24/95	DW	
Tetrachloroethene	<2.	µg/L	1.0	2.0	EPA 8260	05/24/95	DW	
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	05/24/95	DW	
Toluene	J1.	µg/L	1.0	2.0	EPA 8260	05/24/95	DW	

* 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

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0785-2
Report Date: 06/13/95
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
S9MW914	Aqueous	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	05/24/95	DW	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	05/24/95	DW	
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	05/24/95	DW	
Total Xylenes	<2.	µg/L	1.0	2.0	EPA 8260	05/24/95	DW	
Dibromofluoromethane (Surr.)	102.	%	1.0		EPA 8260	05/24/95	DW	
Toluene-d8 (Surr.)	100.	%	1.0		EPA 8260	05/24/95	DW	
p-Bromofluorobenzene (Surr.)	99.	%	1.0		EPA 8260	05/24/95	DW	

* 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

06/13/95

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VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.:	S9MW906
Matrix (soil/water)	Water	Lab Sample ID:	S9MW914
Sample wt/vol:	5 (g/ml) ml	Lab File ID:	F1593.D
Level: (low/med)	low	Date Received:	5/19/95
% Moisture: not dec.	N/A	Date Analyzed:	5/24/95
GC Column:	RTX-624 ID: 0.18	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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pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0785-5
Report Date: 06/13/95
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
S9MW915	Aqueous	J. NEWMAN	05/17/95	05/19/95

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	05/25/95	DW	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
Vinyl chloride	3.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
Methylene chloride	JB1	µg/L	1.0	3.0	EPA 8260	05/25/95	DW	
Acetone	B8	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
1,1-Dichloroethene	<1.	µg/L	1.0	1.0	EPA 8260	05/25/95	DW	
1,1-Dichloroethane	J2	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
Total 1,2-Dichloroethene	J1.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
1,1,1-Trichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	

* 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.

06/13/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0785-5
Report Date: 06/13/95
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
S9MW915	Aqueous	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	05/25/95	DW	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
Trichloroethene	<2.5	µg/L	1.0	2.5	EPA 8260	05/25/95	DW	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	05/25/95	DW	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	05/25/95	DW	
Tetrachloroethene	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
Toluene	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	

* 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

06/13/95

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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-0785-5
Report Date: 06/13/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9MW915	Aqueous	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
Total Xylenes	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
Dibromofluoromethane (Surr.)	105.	%	1.0		EPA 8260	05/25/95	DW	
Toluene-d8 (Surr.)	100.	%	1.0		EPA 8260	05/25/95	DW	
p-Bromofluorobenzene (Surr.)	98.	%	1.0		EPA 8260	05/25/95	DW	

* 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.

06/13/95

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1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.:	S9MW906
Matrix (soil/water)	Water	Lab Sample ID:	S9MW915
Sample wt/vol:	5 (g/ml) ml	Lab File ID:	F1596.D
Level: (low/med)	low	Date Received:	5/19/95
% Moisture: not dec.	N/A	Date Analyzed:	5/25/95
GC Column:	RTX-624 ID: 0.18	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-0785-6
Report Date: 06/13/95
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
S9MW916	Aqueous	J. NEWMAN	05/17/95	05/19/95

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	05/25/95	DW	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
Vinyl chloride	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
Methylene chloride	JB2	µg/L	1.0	3.0	EPA 8260	05/25/95	DW	
Acetone	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
1,1-Dichloroethene	<1.	µg/L	1.0	1.0	EPA 8260	05/25/95	DW	
1,1-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
Total 1,2-Dichloroethene	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
1,1,1-Trichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	

* 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.

06/13/95

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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-0785-6
Report Date: 06/13/95
PO No. : 802LSQA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9MW916	Aqueous	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	05/25/95	DW	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
Trichloroethene	<2.5	µg/L	1.0	2.5	EPA 8260	05/25/95	DW	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	05/25/95	DW	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	05/25/95	DW	
Tetrachloroethene	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
Toluene	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	

* 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-0785-6
Report Date: 06/13/95
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
S9MW916	Aqueous	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
Total Xylenes	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
Dibromofluoromethane (Surr.)	95.	%	1.0		EPA 8260	05/25/95	DW	
Toluene-d8 (Surr.)	98.	%	1.0		EPA 8260	05/25/95	DW	
p-Bromofluorobenzene (Surr.)	111.	%	1.0		EPA 8260	05/25/95	DW	

* 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.

06/13/95

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1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.:	S9MW906
Matrix (soil/water)	Water	Lab Sample ID:	S9MW916
Sample wt/vol:	5 (g/ml) ml	Lab File ID:	F1600.D
Level: (low/med)	low	Date Received:	5/19/95
% Moisture: not dec.	N/A	Date Analyzed:	5/25/95
GC Column:	RTX-624 ID: 0.18	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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1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

S9MW903

Lab Name: PACE_ME Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: S9MW90

Matrix (soil/water): WATER Lab Sample ID: WL0785-3

Level (low/med): LOW Date Received: 05/19/95

% 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	14.3	U	EN	P
7440-36-0	Antimony	2.7	U		F
7440-38-2	Arsenic	4.0	B		F
7440-39-3	Barium	7.3	B		P
7440-41-7	Beryllium	0.30	U		P
7440-43-9	Cadmium	1.2	U	N	P
7440-70-2	Calcium	13800		E	P
7440-47-3	Chromium	2.4	U		P
7440-48-4	Cobalt	2.1	U		P
7440-50-8	Copper	2.9	U		P
7439-89-6	Iron	5990		EN	P
7439-92-1	Lead	0.72	U		F
7439-95-4	Magnesium	6460		E	P
7439-96-5	Manganese	345			P
7439-97-6	Mercury	0.10	U	N	CV
7440-02-0	Nickel	7.2	U		P
7440-09-7	Potassium	2590	B		P
7782-49-2	Selenium	0.63	U	W	F
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	26400		E	P
7440-28-0	Thallium	0.69	U	W	F
7440-62-2	Vanadium	2.4	U		P
7440-66-6	Zinc	9.5	B		P
5712-5	Cyanide	15.1		N	C

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

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1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

S9MWDUP1

Lab Name: PACE_ME Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: S9MW90

Matrix (soil/water): WATER Lab Sample ID: WL0785-4

Level (low/med): LOW Date Received: 05/19/95

% 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	14.3	U	EN	P
7440-36-0	Antimony	2.7	U	W	F
7440-38-2	Arsenic	4.1	B		F
7440-39-3	Barium	7.2	B		P
7440-41-7	Beryllium	0.30	U		P
7440-43-9	Cadmium	1.2	U	N	P
7440-70-2	Calcium	13000		E	P
7440-47-3	Chromium	2.4	U		P
7440-48-4	Cobalt	2.1	U		P
7440-50-8	Copper	2.9	U		P
7439-89-6	Iron	5570		EN	P
7439-92-1	Lead	0.72	U		F
7439-95-4	Magnesium	6080		E	P
7439-96-5	Manganese	327			P
7439-97-6	Mercury	0.10	U	N	CV
7440-02-0	Nickel	7.4	B		P
7440-09-7	Potassium	2200	B		P
7782-49-2	Selenium	0.63	U	W	F
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	24800		E	P
7440-28-0	Thallium	0.69	U	W	F
7440-62-2	Vanadium	2.4	U		P
7440-66-6	Zinc	6.4	B		P
5712-5	Cyanide	15.6		N	C

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

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1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

S9MW904

Lab Name: PACE_ME Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: S9MW90

Matrix (soil/water): WATER Lab Sample ID: WL0785-1

Level (low/med): LOW Date Received: 05/19/95

% 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		EN	P
7440-36-0	Antimony	2.7	U		F
7440-38-2	Arsenic	2.3	B		F
7440-39-3	Barium	11.3	B		P
7440-41-7	Beryllium	0.30	U		P
7440-43-9	Cadmium	1.2	U	N	P
7440-70-2	Calcium	17400		E	P
7440-47-3	Chromium	12.7			P
7440-48-4	Cobalt	2.1	U		P
7440-50-8	Copper	4.3	B		P
7439-89-6	Iron	2280		EN	P
7439-92-1	Lead	0.76	B		F
7439-95-4	Magnesium	5250		E	P
7439-96-5	Manganese	162			P
7439-97-6	Mercury	0.10	U	N	CV
7440-02-0	Nickel	13.9	B		P
7440-09-7	Potassium	1420	B		P
7782-49-2	Selenium	0.63	U	W	F
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	6280		E	P
7440-28-0	Thallium	0.69	U		F
7440-62-2	Vanadium	5.6	B		P
7440-66-6	Zinc	9.9	B		P
5712-5	Cyanide	2.6	U	N	C

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

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1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

S9MW914

Lab Name: PACE_ME Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: S9MW90

Matrix (soil/water): WATER Lab Sample ID: WL0785-2

Level (low/med): LOW Date Received: 05/19/95

% 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	116	B	EN	P
7440-36-0	Antimony	2.7	U		F
7440-38-2	Arsenic	2.8	B		F
7440-39-3	Barium	198	B		P
7440-41-7	Beryllium	0.30	U		P
7440-43-9	Cadmium	1.2	U	N	P
7440-70-2	Calcium	28300		E	P
7440-47-3	Chromium	2.4	U		P
7440-48-4	Cobalt	2.1	U		P
7440-50-8	Copper	2.9	U		P
7439-89-6	Iron	18500		EN	P
7439-92-1	Lead	0.72	U		F
7439-95-4	Magnesium	1870	B	E	P
7439-96-5	Manganese	103			P
7439-97-6	Mercury	0.10	U	N	CV
7440-02-0	Nickel	7.2	U		P
7440-09-7	Potassium	2470	B		P
7782-49-2	Selenium	0.63	U		F
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	2920	B	E	P
7440-28-0	Thallium	0.69	U		F
7440-62-2	Vanadium	4.5	B		P
7440-66-6	Zinc	9.5	B		P
5712-5	Cyanide	2.6	U	N	C

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

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1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

S9MW915

Lab Name: PACE_ME Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: S9MW90

Matrix (soil/water): WATER Lab Sample ID: WL0785-5

Level (low/med): LOW Date Received: 05/19/95

% 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	42.4	B	EN	P
7440-36-0	Antimony	2.7	U		F
7440-38-2	Arsenic	1.6	B		F
7440-39-3	Barium	732			P
7440-41-7	Beryllium	0.30	U		P
7440-43-9	Cadmium	1.2	U	N	P
7440-70-2	Calcium	60900		E	P
7440-47-3	Chromium	5.7	B		P
7440-48-4	Cobalt	2.1	U		P
7440-50-8	Copper	2.9	U		P
7439-89-6	Iron	1470		EN	P
7439-92-1	Lead	0.72	U		F
7439-95-4	Magnesium	4110	B	E	P
7439-96-5	Manganese	125			P
7439-97-6	Mercury	0.10	U	N	CV
7440-02-0	Nickel	7.3	B		P
7440-09-7	Potassium	6340			P
7782-49-2	Selenium	0.63	U	W	F
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	23100		E	P
7440-28-0	Thallium	0.69	U		F
7440-62-2	Vanadium	3.0	B		P
7440-66-6	Zinc	17.8	B		P
5712-5	Cyanide	2.6	U	N	C

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

S9MW916

Lab Name: PACE_ME Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: S9MW90

Matrix (soil/water): WATER Lab Sample ID: WL0785-6

Level (low/med): LOW Date Received: 05/19/95

% 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	16.4	B	EN	P
7440-36-0	Antimony	2.7	U		F
7440-38-2	Arsenic	1.5	U		F
7440-39-3	Barium	61.7	B		P
7440-41-7	Beryllium	0.30	U		P
7440-43-9	Cadmium	1.3	B	N	P
7440-70-2	Calcium	31900		E	P
7440-47-3	Chromium	2.6	B		P
7440-48-4	Cobalt	2.1	U		P
7440-50-8	Copper	2.9	U		P
7439-89-6	Iron	42.3	B	EN	P
7439-92-1	Lead	0.72	U		F
7439-95-4	Magnesium	2860	B	E	P
7439-96-5	Manganese	1.8	B		P
7439-97-6	Mercury	0.10	U	N	CV
7440-02-0	Nickel	7.2	U		P
7440-09-7	Potassium	6200			P
7782-49-2	Selenium	0.93	B	W	F
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	71000		E	P
7440-28-0	Thallium	0.69	U		F
7440-62-2	Vanadium	2.4	U		P
7440-66-6	Zinc	6.8	B		P
5712-5	Cyanide	2.6	U	N	C

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

PACE INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0785-11
Report Date: 06/13/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9TB001	Aqueous	J. NEWMAN	05/17/95	05/19/95

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	05/25/95	DW	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
Vinyl chloride	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
Methylene chloride	B3	µg/L	1.0	3.0	EPA 8260	05/25/95	DW	
Acetone	B6	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
1,1-Dichloroethene	<1.	µg/L	1.0	1.0	EPA 8260	05/25/95	DW	
1,1-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
Total 1,2-Dichloroethene	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
1,1,1-Trichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	

* 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.

06/13/95

LJO/jcbeaw/gbp (dw) /sra
LE25VLW1

340 County Road #6 P.O. Box 720
Westbrook, ME 04092
TEL: 207-874-2400
FAX 207-775-4029

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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-0785-11
Report Date: 06/13/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9TB001	Aqueous	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	05/25/95	DW	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
Trichloroethene	<2.5	µg/L	1.0	2.5	EPA 8260	05/25/95	DW	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	05/25/95	DW	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	05/25/95	DW	
Tetrachloroethene	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
Toluene	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	

* 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.

06/13/95

LJO/jcbeaw/gbp(dw)/sra
LE25VLW1

340 County Road #5, P.O. Box [illegible]
Westbrook, ME 04098
TEL: 207-874-2400
FAX: 207-[illegible]

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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-0785-11
Report Date: 06/13/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9TB001	Aqueous	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
Total Xylenes	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
Dibromofluoromethane (Surr.)	98.	%	1.0		EPA 8260	05/25/95	DW	
Toluene-d8 (Surr.)	99.	%	1.0		EPA 8260	05/25/95	DW	
p-Bromofluorobenzene (Surr.)	100.	%	1.0		EPA 8260	05/25/95	DW	

* 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.

06/13/95

LJO/jcbeaw/gbp(dw)/sra
LE25VLW1

340 County Road #5, P.O. Box 720
Westbrook, ME 04098
TEL: 207-874-2400
FAX: 207-775-2029

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1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.:	S9MW906
Matrix (soil/water)	Water	Lab Sample ID:	S9TB001
Sample wt/vol:	5 (g/ml) ml	Lab File ID:	F1605.D
Level: (low/med)	low	Date Received:	5/19/95
% Moisture: not dec.	N/A	Date Analyzed:	5/25/95
GC Column:	RTX-624 ID: 0.18	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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24180

PACE INCORPORATED
ENVIRONMENTAL LABORATORIES

CHAIN-OF-CUSTODY RECORD
Analytical Request

Client: EA
Address: Old Gurnet Rd.
Brunswick Maine 04011-5000
Phone: (207) 798-5977

Report To: Mike Battle
Bill To: EA Newburgh
P.O. # / Billing Reference:
Project Name / No.: 29600047 - 7200

Pace Client No.:
Pace Project Manager:
Pace Project No.:
*Requested Due Date:

Sampled By (PRINT): John Newman, Bart Weming, Tom Carey
Sampler Signature: John Newman
Date Sampled: 5/17/95

ITEM NO.	SAMPLE DESCRIPTION	TIME	MATRIX	PACE NO.	NO. OF CONTAINERS	UNPRESERVED	H_2SO_4	HNO_3	VOA			ANALYSES REQUEST: VOC's (8260)	METALS	CN		REMARKS
1	BN-02-S9-MW904 ms/msd	0900	H_2O	1	10		✓	✓	✓			✓	✓	✓	S9MW904 ①	Refer to Sec 7 in QAPP
2	BN-02-S9-MW901	1030	H_2O	7	2				✓			✓			S9MW901 ①	Perform Library Search on VOC's
3	BN-02-S9-MW914	1010	H_2O	2	4		✓	✓	✓			✓	✓	✓	S9MW914 ①	
4	BN-02-S9-MW903 Dup	0917	H_2O	3 4	8		✓	✓	✓			✓	✓	✓	S9MW903 ① S9MWdup1 ①	
5	BN-02-S9-MW915	1050	H_2O	5	4		✓	✓	✓			✓	✓	✓	S9MW915 ①	
6	BN-02-S9-MW-916	1125	H_2O	6	4		✓	✓	✓			✓	✓	✓	S9MW916 ①	
7																
8																

COOLER NOS.	BAILERS	SHIPMENT METHOD OUT DATE	RETURNED DATE	ITEM NUMBER	RELINQUISHED BY / AFFILIATION	ACCEPTED BY / AFFILIATION	DATE	TIME
					John Newman / EA	Laura J O'Meara / PACE	05/19/95	0900
						[illegible]	05/19/95	[illegible]

Additional Comments: SDG: BN-02-S9-MW906 ce

Page 2 of 2

Cooler Temp 3, 5, 4, 2, 4, 4, 4

SEE REVERSE SIDE FOR INSTRUCTIONS

ORIGINAL

241112

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

CHAIN-OF-CUSTODY RECORD
Analytical Request

Client: EA
Address: Old Gurnet Rd
Brunswick Maine 04011
Phone: 207 798-5977

Report To: Mike Battle
Bill To: EA Newburgh
P.O. # / Billing Reference:
Project Name / No. 2960047

Pace Client No.:
Pace Project Manager:
Pace Project No. WO785
*Requested Due Date:

Sampled By (PRINT): Craig Corbett John Newman Bart Wuemling Tom Corey
Sampler Signature: [signature] Date Sampled: 5/12/95

ITEM NO.	SAMPLE DESCRIPTION	TIME	MATRIX	PACE NO.	NO. OF CONTAINERS	PRESERVATIVES: UNPRESERVED	H_2SO_4	HNO_3	VOA			ANALYSES REQUEST: VOC		REMARKS
1	BN-02-59MW-906	1705	H_2O	8	2				X			X	59MW906	VOC by 8260
2	BN-02-59MW-907	1705	H_2O	9	2				X			X	59MW907	with library search
3	BN-02-59MW-908	1700	H_2O	10	2				X			X	59MW908	
4	~~BN-02-59TB~~													
5	BN-02-59TB-001	1700	H_2O	11	2				X			X	59TB001	
6														
7														
8														

COOLER NOS.	BAILERS	SHIPMENT METHOD: OUT DATE	RETURNED DATE

ITEM NUMBER	RELINQUISHED BY / AFFILIATION	ACCEPTED BY / AFFILIATION	DATE	TIME
	[signature]	[signature] / PACE	051995	0900
	[signature]	[signature]	051295	1045

Additional Comments
This is the start of SDG BN-02-59MW-906

Cooler Temps: 3, 5, 4, 2, 4, 4, 4

SEE REVERSE SIDE FOR INSTRUCTIONS

ORIGINAL

0000008

24/188

PACE INCORPORATED
ENVIRONMENTAL LABORATORIES

CHAIN-OF-CUSTODY RECORD
Analytical Request

Client: EA
Address: Old Gurnet Rd.
Brunswick Maine 04011-5000
Phone: (207) 798-5977

Report To: Mike Battle
Bill To: EA Newburgh
P.O. # / Billing Reference
Project Name / No. 29600.47-7200

Pace Client No.
Pace Project Manager
Pace Project No.
*Requested Due Date:

Sampled By (PRINT): John Newman Bart Wiemling
Sampler Signature: [signature]
Date Sampled: 5/18/95

ITEM NO.	SAMPLE DESCRIPTION	TIME	MATRIX	PACE NO.	NO. OF CONTAINERS	PRESERVATIVES: UNPRESERVED	H_2SO_4	HNO_3	VOA		ANALYSES REQUEST: VOC's (8260)	REMARKS
1	BN-02-59-MW909	1230	H2O	12	2				✓		✓ S9MW909 (19)	Refer to Sec 7.1 of QAPP
2	BN-02-59-MW910	1210	H2O	13	2				✓		✓ S9MW910 (19)	
3												VOC Library Search Required
4												
5												
6												
7												
8												

COOLER NOS.	BAILERS	SHIPMENT METHOD OUT DATE	RETURNED DATE

ITEM NUMBER	RELINQUISHED BY / AFFILIATION	ACCEPTED BY / AFFILIATION	DATE	TIME
	John Newman / EA	Laura J. O'Malia / PACE	05/19/95	0900
		[signature]	05/19/95	[illegible]

Additional Comments
add to SDG BN-02-59MW-906

Page 3 of 3 Cooler Temp 3.5, 4.2, 4.4, 4

SEE REVERSE SIDE FOR INSTRUCTIONS

Appendix E.2

Surface Water Samples
Site 9

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0787-5
Report Date: 06/13/95
PO No. : 802LSOA
Project : 2960047

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SW010	Aqueous	J. NEWMAN	05/17/95	05/19/95

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	05/26/95	DW	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	05/26/95	DW	
Vinyl chloride	<2.	µg/L	1.0	2.0	EPA 8260	05/26/95	DW	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	05/26/95	DW	
Methylene chloride	B10	µg/L	1.0	3.0	EPA 8260	05/26/95	DW	
Acetone	JB1	µg/L	1.0	5.0	EPA 8260	05/26/95	DW	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	05/26/95	DW	
1,1-Dichloroethene	<1.	µg/L	1.0	1.0	EPA 8260	05/26/95	DW	
1,1-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	05/26/95	DW	
Total 1,2-Dichloroethene	J1	µg/L	1.0	2.0	EPA 8260	05/26/95	DW	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	05/26/95	DW	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	05/26/95	DW	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	05/26/95	DW	
1,1,1-Trichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	05/26/95	DW	

* 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.

06/13/95

LJO/jcbeaw/gbp(dw)/sra
LE26VLW1

340 County Road 45 PO Box 720
Westbrook ME 04098
TEL: 207-874-2400

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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-0787-5
Report Date: 06/13/95
PO No. : 802LSOA
Project : 2960047

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SW010	Aqueous	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	05/26/95	DW	
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	05/26/95	DW	
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	05/26/95	DW	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	05/26/95	DW	
Trichloroethene	<2.5	µg/L	1.0	2.5	EPA 8260	05/26/95	DW	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	05/26/95	DW	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	05/26/95	DW	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	05/26/95	DW	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	05/26/95	DW	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	05/26/95	DW	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	05/26/95	DW	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	05/26/95	DW	
Tetrachloroethene	<2.	µg/L	1.0	2.0	EPA 8260	05/26/95	DW	
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	05/26/95	DW	
Toluene	<2.	µg/L	1.0	2.0	EPA 8260	05/26/95	DW	

* 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.

06/13/95

LJO/jcbeaw/gbp(dw)/sra
LE26VLW1

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0787-5
Report Date: 06/13/95
PO No. : 802LSOA
Project : 2960047

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SW010	Aqueous	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	05/26/95	DW	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	05/26/95	DW	
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	05/26/95	DW	
Total Xylenes	<2.	µg/L	1.0	2.0	EPA 8260	05/26/95	DW	
Dibromofluoromethane (Surr.)	100.	%	1.0		EPA 8260	05/26/95	DW	
Toluene-d8 (Surr.)	99.	%	1.0		EPA 8260	05/26/95	DW	
p-Bromofluorobenzene (Surr.)	96.	%	1.0		EPA 8260	05/26/95	DW	

* 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.

06/13/95

LJO/jcbeaw/gbp (dw) /sra
LE26VLW1

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.:	S9SW012
Matrix (soil/water)	Water	Lab Sample ID:	S9SW010
Sample wt/vol:	5 (g/ml) ml	Lab File ID:	F1629.D
Level: (low/med)	low	Date Received:	5/19/95
% Moisture: not dec.	N/A	Date Analyzed:	5/26/95
GC Column:	RTX-624 ID: 0.18	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-0787-6
Report Date: 06/13/95
PO No. : 802LSOA
Project : 2960047

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SWDUP1	Aqueous	J. NEWMAN	05/17/95	05/19/95

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	05/26/95	DW	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	05/26/95	DW	
Vinyl chloride	<2.	µg/L	1.0	2.0	EPA 8260	05/26/95	DW	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	05/26/95	DW	
Methylene chloride	B10	µg/L	1.0	3.0	EPA 8260	05/26/95	DW	
Acetone	JB1	µg/L	1.0	5.0	EPA 8260	05/26/95	DW	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	05/26/95	DW	
1,1-Dichloroethene	<1.	µg/L	1.0	1.0	EPA 8260	05/26/95	DW	
1,1-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	05/26/95	DW	
Total 1,2-Dichloroethene	J1	µg/L	1.0	2.0	EPA 8260	05/26/95	DW	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	05/26/95	DW	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	05/26/95	DW	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	05/26/95	DW	
1,1,1-Trichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	05/26/95	DW	

* 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.

06/13/95

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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-0787-6
Report Date: 06/13/95
PO No. : 802LSOA
Project : 2960047

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SWDUP1	Aqueous	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	05/26/95	DW	
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	05/26/95	DW	
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	05/26/95	DW	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	05/26/95	DW	
Trichloroethene	<2.5	µg/L	1.0	2.5	EPA 8260	05/26/95	DW	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	05/26/95	DW	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	05/26/95	DW	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	05/26/95	DW	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	05/26/95	DW	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	05/26/95	DW	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	05/26/95	DW	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	05/26/95	DW	
Tetrachloroethene	<2.	µg/L	1.0	2.0	EPA 8260	05/26/95	DW	
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	05/26/95	DW	
Toluene	<2.	µg/L	1.0	2.0	EPA 8260	05/26/95	DW	

* 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.

06/13/95

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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-0787-6
Report Date: 06/13/95
PO No. : 802LSOA
Project : 2960047

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SWDUP1	Aqueous	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	05/26/95	DW	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	05/26/95	DW	
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	05/26/95	DW	
Total Xylenes	<2.	µg/L	1.0	2.0	EPA 8260	05/26/95	DW	
Dibromofluoromethane (Surr.)	101.	%	1.0		EPA 8260	05/26/95	DW	
Toluene-d8 (Surr.)	99.	%	1.0		EPA 8260	05/26/95	DW	
p-Bromofluorobenzene (Surr.)	95.	%	1.0		EPA 8260	05/26/95	DW	

* 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.

06/13/95

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1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.: S9SW012	
Matrix (soil/water)	Water	Lab Sample ID:	S9SWDUP1
Sample wt/vol:	5 (g/ml) ml	Lab File ID:	F1630.D
Level: (low/med)	low	Date Received:	5/19/95
% Moisture: not dec.	N/A	Date Analyzed:	5/26/95
GC Column:	RTX-624 ID: 0.18	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-0787-7
Report Date: 06/13/95
PO No. : 802LSOA
Project : 2960047

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SW011	Aqueous	J. NEWMAN	05/17/95	05/19/95

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	05/26/95	DW	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	05/26/95	DW	
Vinyl chloride	<2.	µg/L	1.0	2.0	EPA 8260	05/26/95	DW	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	05/26/95	DW	
Methylene chloride	B8	µg/L	1.0	3.0	EPA 8260	05/26/95	DW	
Acetone	JB5	µg/L	1.0	5.0	EPA 8260	05/26/95	DW	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	05/26/95	DW	
1,1-Dichloroethene	<1.	µg/L	1.0	1.0	EPA 8260	05/26/95	DW	
1,1-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	05/26/95	DW	
Total 1,2-Dichloroethene	<2.	µg/L	1.0	2.0	EPA 8260	05/26/95	DW	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	05/26/95	DW	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	05/26/95	DW	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	05/26/95	DW	
1,1,1-Trichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	05/26/95	DW	

* 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.

06/13/95

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REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0787-7
Report Date: 06/13/95
PO No. : 802LSOA
Project : 2960047

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SW011	Aqueous	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	05/26/95	DW	
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	05/26/95	DW	
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	05/26/95	DW	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	05/26/95	DW	
Trichloroethene	<2.5	µg/L	1.0	2.5	EPA 8260	05/26/95	DW	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	05/26/95	DW	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	05/26/95	DW	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	05/26/95	DW	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	05/26/95	DW	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	05/26/95	DW	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	05/26/95	DW	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	05/26/95	DW	
Tetrachloroethene	<2.	µg/L	1.0	2.0	EPA 8260	05/26/95	DW	
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	05/26/95	DW	
Toluene	J1	µg/L	1.0	2.0	EPA 8260	05/26/95	DW	

* 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.

06/13/95

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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-0787-7
Report Date: 06/13/95
PO No. : 802LSOA
Project : 2960047

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SW011	Aqueous	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	05/26/95	DW	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	05/26/95	DW	
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	05/26/95	DW	
Total Xylenes	J1	µg/L	1.0	2.0	EPA 8260	05/26/95	DW	
Dibromofluoromethane (Surr.)	99.	%	1.0		EPA 8260	05/26/95	DW	
Toluene-d8 (Surr.)	100.	%	1.0		EPA 8260	05/26/95	DW	
p-Bromofluorobenzene (Surr.)	97.	%	1.0		EPA 8260	05/26/95	DW	

* 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.

06/13/95

LJO/jcbeaw/gbp(dw)/sra
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1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.:	S9SW012
Matrix (soil/water)	Water	Lab Sample ID:	S9SW011
Sample wt/vol:	5 (g/ml) ml	Lab File ID:	F1631.D
Level: (low/med)	low	Date Received:	5/19/95
% Moisture: not dec.	N/A	Date Analyzed:	5/26/95
GC Column:	RTX-624 ID: 0.18	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-0787-1
Report Date: 06/13/95
PO No. : 802LSOA
Project : 2960047

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SW012	Aqueous	J. NEWMAN	05/17/95	05/19/95

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	05/25/95	DW	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
Vinyl chloride	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
Methylene chloride	JB3	µg/L	1.0	3.0	EPA 8260	05/25/95	DW	
Acetone	B10	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
1,1-Dichloroethene	<1.	µg/L	1.0	1.0	EPA 8260	05/25/95	DW	
1,1-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
Total 1,2-Dichloroethene	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
2-Butanone	J2.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
1,1,1-Trichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	

* 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.

06/13/95

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REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0787-1
Report Date: 06/13/95
PO No. : 802LSOA
Project : 2960047

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SW012	Aqueous	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	05/25/95	DW	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
Trichloroethene	<2.5	µg/L	1.0	2.5	EPA 8260	05/25/95	DW	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
4-Methyl-2-pentanone	JB3	µg/L	1.0	3.0	EPA 8260	05/25/95	DW	
2-Hexanone	JB3	µg/L	1.0	4.0	EPA 8260	05/25/95	DW	
Tetrachloroethene	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
Toluene	J1.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	

* 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.

06/13/95

LJO/jcbeaw/gbp(dw)/sra
LE25VLW1

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0787-1
Report Date: 06/13/95
PO No. : 802LSOA
Project : 2960047

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SW012	Aqueous	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
Total Xylenes	2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
Dibromofluoromethane (Surr.)	99.	%	1.0		EPA 8260	05/25/95	DW	
Toluene-d8 (Surr.)	99.	%	1.0		EPA 8260	05/25/95	DW	
p-Bromofluorobenzene (Surr.)	102.	%	1.0		EPA 8260	05/25/95	DW	

* 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.

06/13/95

LJO/jcbeaw/gbp(dw)/sra
LE25VLW1

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.:	S9SW012
Matrix (soil/water)	Water	Lab Sample ID:	S9SW012
Sample wt/vol:	5 (g/ml) ml	Lab File ID:	F1610.D
Level: (low/med)	low	Date Received:	5/19/95
% Moisture: not dec.	N/A	Date Analyzed:	5/25/95
GC Column:	RTX-624 ID: 0.18	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-0787-9
Report Date: 06/13/95
PO No. : 802LSOA
Project : 2960047

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SW915	Aqueous	J. NEWMAN	05/17/95	05/19/95

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	05/26/95	DW	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	05/26/95	DW	
Vinyl chloride	<2.	µg/L	1.0	2.0	EPA 8260	05/26/95	DW	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	05/26/95	DW	
Methylene chloride	JB2	µg/L	1.0	3.0	EPA 8260	05/26/95	DW	
Acetone	B6	µg/L	1.0	5.0	EPA 8260	05/26/95	DW	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	05/26/95	DW	
1,1-Dichloroethene	<1.	µg/L	1.0	1.0	EPA 8260	05/26/95	DW	
1,1-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	05/26/95	DW	
Total 1,2-Dichloroethene	<2.	µg/L	1.0	2.0	EPA 8260	05/26/95	DW	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	05/26/95	DW	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	05/26/95	DW	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	05/26/95	DW	
1,1,1-Trichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	05/26/95	DW	

* 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.

06/13/95

LJO/jcbeaw/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-0787-9
Report Date: 06/13/95
PO No. : 802LSOA
Project : 2960047

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SW915	Aqueous	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	05/26/95	DW	
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	05/26/95	DW	
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	05/26/95	DW	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	05/26/95	DW	
Trichloroethene	<2.5	µg/L	1.0	2.5	EPA 8260	05/26/95	DW	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	05/26/95	DW	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	05/26/95	DW	
Benzene	J1	µg/L	1.0	2.0	EPA 8260	05/26/95	DW	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	05/26/95	DW	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	05/26/95	DW	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	05/26/95	DW	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	05/26/95	DW	
Tetrachloroethene	<2.	µg/L	1.0	2.0	EPA 8260	05/26/95	DW	
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	05/26/95	DW	
Toluene	2.	µg/L	1.0	2.0	EPA 8260	05/26/95	DW	

* 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.

06/13/95

LJO/jcbeaw/gbp(dw)/sra
LE26VLW1

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0787-9
Report Date: 06/13/95
PO No. : 802LSOA
Project : 2960047

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SW915	Aqueous	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	05/26/95	DW	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	05/26/95	DW	
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	05/26/95	DW	
Total Xylenes	3.	µg/L	1.0	2.0	EPA 8260	05/26/95	DW	
Dibromofluoromethane (Surr.)	103.	%	1.0		EPA 8260	05/26/95	DW	
Toluene-d8 (Surr.)	99.	%	1.0		EPA 8260	05/26/95	DW	
p-Bromofluorobenzene (Surr.)	96.	%	1.0		EPA 8260	05/26/95	DW	

* 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.

06/13/95

LJO/jcbeaw/gbp(dw)/sra
LE26VLW1

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.: S9SW012	
Matrix (soil/water)	Water	Lab Sample ID:	S9SW915
Sample wt/vol:	5 (g/ml) ml	Lab File ID:	F1633.D
Level: (low/med)	low	Date Received:	5/19/95
% Moisture: not dec.	N/A	Date Analyzed:	5/26/95
GC Column:	RTX-624 ID: 0.18	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. 123-38-6	Propanal	5.99	7	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-0787-4
Report Date: 06/13/95
PO No. : 802LSOA
Project : 2960047

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SW916	Aqueous	J. NEWMAN	05/17/95	05/19/95

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	05/26/95	DW	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	05/26/95	DW	
Vinyl chloride	<2.	µg/L	1.0	2.0	EPA 8260	05/26/95	DW	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	05/26/95	DW	
Methylene chloride	B11	µg/L	1.0	3.0	EPA 8260	05/26/95	DW	
Acetone	JB3	µg/L	1.0	5.0	EPA 8260	05/26/95	DW	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	05/26/95	DW	
1,1-Dichloroethene	<1.	µg/L	1.0	1.0	EPA 8260	05/26/95	DW	
1,1-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	05/26/95	DW	
Total 1,2-Dichloroethene	<2.	µg/L	1.0	2.0	EPA 8260	05/26/95	DW	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	05/26/95	DW	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	05/26/95	DW	
2-Butanone	JB2	µg/L	1.0	5.0	EPA 8260	05/26/95	DW	
1,1,1-Trichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	05/26/95	DW	

* 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-0787-4
Report Date: 06/13/95
PO No. : 802LSOA
Project : 2960047

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SW916	Aqueous	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	05/26/95	DW	
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	05/26/95	DW	
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	05/26/95	DW	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	05/26/95	DW	
Trichloroethene	<2.5	µg/L	1.0	2.5	EPA 8260	05/26/95	DW	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	05/26/95	DW	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	05/26/95	DW	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	05/26/95	DW	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	05/26/95	DW	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	05/26/95	DW	
4-Methyl-2-pentanone	J2.	µg/L	1.0	3.0	EPA 8260	05/26/95	DW	
2-Hexanone	J3	µg/L	1.0	4.0	EPA 8260	05/26/95	DW	
Tetrachloroethene	<2.	µg/L	1.0	2.0	EPA 8260	05/26/95	DW	
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	05/26/95	DW	
Toluene	J1	µg/L	1.0	2.0	EPA 8260	05/26/95	DW	

* 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.

06/13/95

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TEL: 207-874-2400

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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-0787-4
Report Date: 06/13/95
PO No. : 802LSOA
Project : 2960047

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SW916	Aqueous	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	05/26/95	DW	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	05/26/95	DW	
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	05/26/95	DW	
Total Xylenes	J1	µg/L	1.0	2.0	EPA 8260	05/26/95	DW	
Dibromofluoromethane (Surr.)	101.	%	1.0		EPA 8260	05/26/95	DW	
Toluene-d8 (Surr.)	100.	%	1.0		EPA 8260	05/26/95	DW	
p-Bromofluorobenzene (Surr.)	95.	%	1.0		EPA 8260	05/26/95	DW	

* 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.

06/13/95

LJO/jcbeaw/gbp(dw)/sra
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1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.:	S9SW012
Matrix (soil/water)	Water	Lab Sample ID:	S9SW916
Sample wt/vol:	5 (g/ml) ml	Lab File ID:	F1628.D
Level: (low/med)	low	Date Received:	5/19/95
% Moisture: not dec.	N/A	Date Analyzed:	5/26/95
GC Column:	RTX-624 ID: 0.18	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-0787-8
Report Date: 06/13/95
PO No. : 802LSOA
Project : 2960047

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SW919	Aqueous	J. NEWMAN	05/17/95	05/19/95

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	05/26/95	DW	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	05/26/95	DW	
Vinyl chloride	<2.	µg/L	1.0	2.0	EPA 8260	05/26/95	DW	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	05/26/95	DW	
Methylene chloride	JB2	µg/L	1.0	3.0	EPA 8260	05/26/95	DW	
Acetone	JB4	µg/L	1.0	5.0	EPA 8260	05/26/95	DW	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	05/26/95	DW	
1,1-Dichloroethene	<1.	µg/L	1.0	1.0	EPA 8260	05/26/95	DW	
1,1-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	05/26/95	DW	
Total 1,2-Dichloroethene	<2.	µg/L	1.0	2.0	EPA 8260	05/26/95	DW	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	05/26/95	DW	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	05/26/95	DW	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	05/26/95	DW	
1,1,1-Trichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	05/26/95	DW	

* 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.

06/13/95

LJO/jcbeaw/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-0787-8
Report Date: 06/13/95
PO No. : 802LSOA
Project : 2960047

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SW919	Aqueous	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	05/26/95	DW	
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	05/26/95	DW	
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	05/26/95	DW	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	05/26/95	DW	
Trichloroethene	<2.5	µg/L	1.0	2.5	EPA 8260	05/26/95	DW	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	05/26/95	DW	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	05/26/95	DW	
Benzene	J1	µg/L	1.0	2.0	EPA 8260	05/26/95	DW	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	05/26/95	DW	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	05/26/95	DW	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	05/26/95	DW	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	05/26/95	DW	
Tetrachloroethene	<2.	µg/L	1.0	2.0	EPA 8260	05/26/95	DW	
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	05/26/95	DW	
Toluene	J1	µg/L	1.0	2.0	EPA 8260	05/26/95	DW	

* 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.

06/13/95

LJO/jcbeaw/gbp(dw)/sra
LE26VLW1

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0787-8
Report Date: 06/13/95
PO No. : 802LSOA
Project : 2960047

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SW919	Aqueous	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	05/26/95	DW	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	05/26/95	DW	
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	05/26/95	DW	
Total Xylenes	2.	µg/L	1.0	2.0	EPA 8260	05/26/95	DW	
Dibromofluoromethane (Surr.)	101.	%	1.0		EPA 8260	05/26/95	DW	
Toluene-d8 (Surr.)	98.	%	1.0		EPA 8260	05/26/95	DW	
p-Bromofluorobenzene (Surr.)	95.	%	1.0		EPA 8260	05/26/95	DW	

* 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.

06/13/95

LJO/jcbeaw/gbp(dw)/sra
LE26VLW1

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.:	S9SW012
Matrix (soil/water)	Water	Lab Sample ID:	S9SW919
Sample wt/vol:	5 (g/ml) ml	Lab File ID:	F1632.D
Level: (low/med)	low	Date Received:	5/19/95
% Moisture: not dec.	N/A	Date Analyzed:	5/26/95
GC Column:	RTX-624 ID: 0.18	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-0787-3
Report Date: 06/13/95
PO No. : 802LSOA
Project : 2960047

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SW922	Aqueous	J. NEWMAN	05/17/95	05/19/95

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	05/25/95	DW	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
Vinyl chloride	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
Methylene chloride	JB3	µg/L	1.0	3.0	EPA 8260	05/25/95	DW	
Acetone	B6	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
1,1-Dichloroethene	<1.	µg/L	1.0	1.0	EPA 8260	05/25/95	DW	
1,1-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
Total 1,2-Dichloroethene	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
2-Butanone	J2	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
1,1,1-Trichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	

* 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.

06/13/95

LJO/jcbeaw/gbp(dw)/sra
LE25VLW1

340 County Road #5, PO Box 720
Westbrook, ME 04098
TEL: 207-874-2400

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pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0787-3
Report Date: 06/13/95
PO No. : 802LSOA
Project : 2960047

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SW922	Aqueous	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	05/25/95	DW	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
Trichloroethene	<2.5	µg/L	1.0	2.5	EPA 8260	05/25/95	DW	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	05/25/95	DW	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	05/25/95	DW	
Tetrachloroethene	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
1,1,2,2-Tetrachloroethane	J2	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
Toluene	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	

* 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.

06/13/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0787-3
Report Date: 06/13/95
PO No. : 802LSOA
Project : 2960047

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SW922	Aqueous	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
Total Xylenes	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
Dibromofluoromethane (Surr.)	100.	%	1.0		EPA 8260	05/25/95	DW	
Toluene-d8 (Surr.)	100.	%	1.0		EPA 8260	05/25/95	DW	
p-Bromofluorobenzene (Surr.)	100.	%	1.0		EPA 8260	05/25/95	DW	

* 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.

06/13/95

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1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.:	S9SW012
Matrix (soil/water)	Water	Lab Sample ID:	S9SW922
Sample wt/vol:	5 (g/ml) ml	Lab File ID:	F1612.D
Level: (low/med)	low	Date Received:	5/19/95
% Moisture: not dec.	N/A	Date Analyzed:	5/25/95
GC Column:	RTX-624 ID: 0.18	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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PACE INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0785-11
Report Date: 06/13/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9TB001	Aqueous	J. NEWMAN	05/17/95	05/19/95

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	05/25/95	DW	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
Vinyl chloride	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
Methylene chloride	B3	µg/L	1.0	3.0	EPA 8260	05/25/95	DW	
Acetone	B6	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
1,1-Dichloroethene	<1.	µg/L	1.0	1.0	EPA 8260	05/25/95	DW	
1,1-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
Total 1,2-Dichloroethene	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
1,1,1-Trichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	

* 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.

06/13/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0785-11
Report Date: 06/13/95
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
S9TB001	Aqueous	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	05/25/95	DW	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
Trichloroethene	<2.5	µg/L	1.0	2.5	EPA 8260	05/25/95	DW	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	05/25/95	DW	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	05/25/95	DW	
Tetrachloroethene	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
Toluene	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	

* 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.

06/13/95

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TEL: 207-874-2400
FAX: 207-775-4029

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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-0785-11
Report Date: 06/13/95
PO No. : 802LSQA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9TB001	Aqueous	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
Total Xylenes	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
Dibromofluoromethane (Surr.)	98.	%	1.0		EPA 8260	05/25/95	DW	
Toluene-d8 (Surr.)	99.	%	1.0		EPA 8260	05/25/95	DW	
p-Bromofluorobenzene (Surr.)	100.	%	1.0		EPA 8260	05/25/95	DW	

* 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.

06/13/95

LJO/jcbeaw/gbp(dw)/sra
LE25VLW1

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Westbrook, ME 04098
TEL: 207-874-2400
FAX: 207-775-4029

An Equal Opportunity Employer

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.:	S9MW906
Matrix (soil/water)	Water	Lab Sample ID:	S9TB001
Sample wt/vol:	5 (g/ml) ml	Lab File ID:	F1605.D
Level: (low/med)	low	Date Received:	5/19/95
% Moisture: not dec.	N/A	Date Analyzed:	5/25/95
GC Column:	RTX-624 ID: 0.18	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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PACE INCORPORATED
ENVIRONMENTAL LABORATORIES

CHAIN-OF-CUSTODY RECORD
Analytical Request

Client: EA
Address: Old Gurnet Rd
Brunswick Maine 04011-5000
Phone: 207-798-5977

Report To: Mike BATTLE
Bill To: EA Newburgh
P.O. # / Billing Reference: NTS CTMP
Project Name / No.: 29600.47.1000

Pace Client No.:
Pace Project Manager:
Pace Project No.: WL0787
*Requested Due Date:

Sampled By (PRINT): JOHN NEWMAN
Sampler Signature: [signature]
Date Sampled: 5/17/95

ITEM NO.	SAMPLE DESCRIPTION	TIME	MATRIX	PACE NO.	NO. OF CONTAINERS	UNPRESERVED	H_2SO_4	HNO_3	VOA			VOC 8260	METALS	CN			REMARKS
1	BN-02-59-RB	0930	H_2O	10	4		✓	✓	✓			✓	✓	✓	⑥	S9RB001	VOA by Method 8260
2	BN-02-59-SW922	1025	H_2O	3	2				✓			✓			⑥	S9SW922	with library search
3	BN-02-59-SW916	1040	H_2O	4	2				✓			✓			⑥	S9SW916	
4	BN-02-59-SW012MS/MSD	1050	H_2O	1	6				✓			✓			⑥	S9SW012	Metals see Fig 7-1
5	BN-02-59-SW010 Dup	1305	H_2O	5 ~~2~~ 6	4				✓			✓			⑥ ⑥	S9SW010 S9SWAP1	in QAPP for method
6	BN-02-59-SW011	1335	H_2O	7	2				✓			✓			⑦	S9SW011	
7	BN-02-59-SW919	1355	H_2O	8	2				✓			✓			⑧	S9SW919	
8	BN-02-59-SW915	1425	H_2O	9	2				✓			✓			⑨	S9SW915	

COOLER NOS.	BAILERS	SHIPMENT METHOD OUT/DATE	RETURNED DATE

ITEM NUMBER	RELINQUISHED BY / AFFILIATION	ACCEPTED BY / AFFILIATION	DATE	TIME
	[signature] EA	[signature] PACE	05/19/95	0900
	[signature] Pace		05/19/95	1045

Additional Comments
SDG BN-02-59SW-012

Cooler Temp 3, 5, 4, 2, 4, 4

SEE REVERSE SIDE FOR INSTRUCTIONS

Appendix E.3

Sediment Samples
Site 9

ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0786-4
Report Date: 06/16/95
PO No. : 802SLOA
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
S9SD010	Solid	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Volatile Organics by EPA 8260								1,2,3,4
Chloromethane	<6.5	µg/kgdrywt	1.3	5.0	EPA 8260	05/19/95	DW	
Bromomethane	<6.5	µg/kgdrywt	1.3	5.0	EPA 8260	05/19/95	DW	
Vinyl chloride	5.	µg/kgdrywt	1.3	2.0	EPA 8260	05/19/95	DW	
Chloroethane	<2.6	µg/kgdrywt	1.3	2.0	EPA 8260	05/19/95	DW	
Methylene chloride	B4	µg/kgdrywt	1.3	3.0	EPA 8260	05/19/95	DW	
Acetone	<6.5	µg/kgdrywt	1.3	5.0	EPA 8260	05/19/95	DW	
Carbon disulfide	<6.5	µg/kgdrywt	1.3	5.0	EPA 8260	05/19/95	DW	
1,1-Dichloroethene	<1.3	µg/kgdrywt	1.3	1.0	EPA 8260	05/19/95	DW	
1,1-Dichloroethane	<2.6	µg/kgdrywt	1.3	2.0	EPA 8260	05/19/95	DW	
Total 1,2-Dichloroethene	16.	µg/kgdrywt	1.3	2.0	EPA 8260	05/19/95	DW	
Chloroform	<6.5	µg/kgdrywt	1.3	5.0	EPA 8260	05/19/95	DW	
1,2-Dichloroethane	<2.6	µg/kgdrywt	1.3	2.0	EPA 8260	05/19/95	DW	

* 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) "$" flag denotes surrogate compound recovery is out of criteria. Re-extraction or re-analysis confirmed matrix interference.

(4) Internal standard area(s) are out of criteria. Reanalysis confirmed matrix interference.

06/16/95

LJO/jcbeaw/gbp(dw)/sra
LE19VLS1

ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0786-4
Report Date: 06/16/95
PO No. : 802SLOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SD010	Solid	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
2-Butanone	<6.5	µg/kgdrywt	1.3	5.0	EPA 8260	05/19/95	DW	
1,1,1-Trichloroethane	<2.6	µg/kgdrywt	1.3	2.0	EPA 8260	05/19/95	DW	
Carbon tetrachloride	<6.5	µg/kgdrywt	1.3	5.0	EPA 8260	05/19/95	DW	
Bromodichloromethane	<6.5	µg/kgdrywt	1.3	5.0	EPA 8260	05/19/95	DW	
1,2-Dichloropropane	<3.3	µg/kgdrywt	1.3	2.5	EPA 8260	05/19/95	DW	
cis-1,3-Dichloropropene	<6.5	µg/kgdrywt	1.3	5.0	EPA 8260	05/19/95	DW	
Trichloroethene	6.	µg/kgdrywt	1.3	2.5	EPA 8260	05/19/95	DW	
Dibromochloromethane	<6.5	µg/kgdrywt	1.3	5.0	EPA 8260	05/19/95	DW	
1,1,2-Trichloroethane	<6.5	µg/kgdrywt	1.3	5.0	EPA 8260	05/19/95	DW	
Benzene	<2.6	µg/kgdrywt	1.3	2.0	EPA 8260	05/19/95	DW	
trans-1,3-Dichloropropene	<6.5	µg/kgdrywt	1.3	5.0	EPA 8260	05/19/95	DW	
Bromoform	J1.	µg/kgdrywt	1.3	5.0	EPA 8260	05/19/95	DW	
4-Methyl-2-pentanone	<3.9	µg/kgdrywt	1.3	3.0	EPA 8260	05/19/95	DW	

* 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

06/16/95

LJO/jcbeaw/gbp(dw)/sra
LE19VLS1

ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0786-4
Report Date: 06/16/95
PO No. : 802SLOA
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
S9SD010	Solid	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
2-Hexanone	<5.2	µg/kgdrywt	1.3	4.0	EPA 8260	05/19/95	DW	
Tetrachloroethene	<2.6	µg/kgdrywt	1.3	2.0	EPA 8260	05/19/95	DW	
1,1,2,2-Tetrachloroethane	J6.	µg/kgdrywt	1.3	5.0	EPA 8260	05/19/95	DW	
Toluene	<2.6	µg/kgdrywt	1.3	2.0	EPA 8260	05/19/95	DW	
Chlorobenzene	<6.5	µg/kgdrywt	1.3	5.0	EPA 8260	05/19/95	DW	
Ethylbenzene	<2.6	µg/kgdrywt	1.3	2.0	EPA 8260	05/19/95	DW	
Styrene	<2.6	µg/kgdrywt	1.3	2.0	EPA 8260	05/19/95	DW	
Total Xylenes	J2.	µg/kgdrywt	1.3	2.0	EPA 8260	05/19/95	DW	
Dibromofluoromethane (Surr.)	95.	%	1.3		EPA 8260	05/19/95	DW	
Toluene-d8 (Surr.)	92.	%	1.3		EPA 8260	05/19/95	DW	
p-Bromofluorobenzene (Surr.)	$60	%	1.3		EPA 8260	05/19/95	DW	

* 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.

06/16/95

LJO/jcbeaw/gbp(dw)/sra
LE19VLS1

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.:	S9SD012
Matrix (soil/water)	Soil	Lab Sample ID:	S9SD010
Sample wt/vol:	5 (g/ml) g	Lab File ID:	Y9051
Level: (low/med)	low	Date Received:	5/19/95
% Moisture: not dec.	25	Date Analyzed:	5/19/95
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	2.15	78	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-0786-4
Report Date: 06/16/95
PO No. : 802SLOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SD010	Solid	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Volatile Organics by EPA 8260								1,2,3,4
Reanalysis								
Chloromethane	<6.5	µg/kgdrywt	1.3	5.0	EPA 8260	05/26/95	DW	
Bromomethane	<6.5	µg/kgdrywt	1.3	5.0	EPA 8260	05/26/95	DW	
Vinyl chloride	J2.	µg/kgdrywt	1.3	2.0	EPA 8260	05/26/95	DW	
Chloroethane	<2.6	µg/kgdrywt	1.3	2.0	EPA 8260	05/26/95	DW	
Methylene chloride	B18	µg/kgdrywt	1.3	3.0	EPA 8260	05/26/95	DW	
Acetone	9.	µg/kgdrywt	1.3	5.0	EPA 8260	05/26/95	DW	
Carbon disulfide	<6.5	µg/kgdrywt	1.3	5.0	EPA 8260	05/26/95	DW	
1,1-Dichloroethene	<1.3	µg/kgdrywt	1.3	1.0	EPA 8260	05/26/95	DW	
1,1-Dichloroethane	<2.6	µg/kgdrywt	1.3	2.0	EPA 8260	05/26/95	DW	
Total 1,2-Dichloroethene	13.	µg/kgdrywt	1.3	2.0	EPA 8260	05/26/95	DW	
Chloroform	<6.5	µg/kgdrywt	1.3	5.0	EPA 8260	05/26/95	DW	

* 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) "$" flag denotes surrogate compound recovery is out of criteria. Re-extraction or re-analysis confirmed matrix interference.

(4) Internal standard area(s) are out of criteria. Reanalysis confirmed matrix interference.

06/16/95

LJO/jcbeaw/gbp(dw)/sra
LE23VLS1

ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0786-4
Report Date: 06/16/95
PO No. : 802SLOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SD010	Solid	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
1,2-Dichloroethane	<2.6	µg/kgdrywt	1.3	2.0	EPA 8260	05/26/95	DW	
2-Butanone	<6.5	µg/kgdrywt	1.3	5.0	EPA 8260	05/26/95	DW	
1,1,1-Trichloroethane	<2.6	µg/kgdrywt	1.3	2.0	EPA 8260	05/26/95	DW	
Carbon tetrachloride	<6.5	µg/kgdrywt	1.3	5.0	EPA 8260	05/26/95	DW	
Bromodichloromethane	<6.5	µg/kgdrywt	1.3	5.0	EPA 8260	05/26/95	DW	
1,2-Dichloropropane	<3.3	µg/kgdrywt	1.3	2.5	EPA 8260	05/26/95	DW	
cis-1,3-Dichloropropene	<6.5	µg/kgdrywt	1.3	5.0	EPA 8260	05/26/95	DW	
Trichloroethene	5.	µg/kgdrywt	1.3	2.5	EPA 8260	05/26/95	DW	
Dibromochloromethane	<6.5	µg/kgdrywt	1.3	5.0	EPA 8260	05/26/95	DW	
1,1,2-Trichloroethane	<6.5	µg/kgdrywt	1.3	5.0	EPA 8260	05/26/95	DW	
Benzene	<2.6	µg/kgdrywt	1.3	2.0	EPA 8260	05/26/95	DW	
trans-1,3-Dichloropropene	<6.5	µg/kgdrywt	1.3	5.0	EPA 8260	05/26/95	DW	
Bromoform	<6.5	µg/kgdrywt	1.3	5.0	EPA 8260	05/26/95	DW	

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06/16/95

LJO/jcbeaw/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-0786-4
Report Date: 06/16/95
PO No. : 802SLOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SD010	Solid	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
4-Methyl-2-pentanone	<3.9	µg/kgdrywt	1.3	3.0	EPA 8260	05/26/95	DW	
2-Hexanone	<5.2	µg/kgdrywt	1.3	4.0	EPA 8260	05/26/95	DW	
Tetrachloroethene	<2.6	µg/kgdrywt	1.3	2.0	EPA 8260	05/26/95	DW	
1,1,2,2-Tetrachloroethane	<6.5	µg/kgdrywt	1.3	5.0	EPA 8260	05/26/95	DW	
Toluene	<2.6	µg/kgdrywt	1.3	2.0	EPA 8260	05/26/95	DW	
Chlorobenzene	<6.5	µg/kgdrywt	1.3	5.0	EPA 8260	05/26/95	DW	
Ethylbenzene	<2.6	µg/kgdrywt	1.3	2.0	EPA 8260	05/26/95	DW	
Styrene	<2.6	µg/kgdrywt	1.3	2.0	EPA 8260	05/26/95	DW	
Total Xylenes	<2.6	µg/kgdrywt	1.3	2.0	EPA 8260	05/26/95	DW	
Dibromofluoromethane (Surr.)	98.	%	1.3		EPA 8260	05/26/95	DW	
Toluene-d8 (Surr.)	90.	%	1.3		EPA 8260	05/26/95	DW	
p-Bromofluorobenzene (Surr.)	$60	%	1.3		EPA 8260	05/26/95	DW	

* 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.

06/15/95

LJO/jcbeaw/gbp(dw)/sra
LE23VLS1

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.:	S9SD012
Matrix (soil/water)	Soil	Lab Sample ID:	S9SD010RE
Sample wt/vol:	5 (g/ml) g	Lab File ID:	Y9203
Level: (low/med)	low	Date Received:	5/19/95
% Moisture: not dec.	25	Date Analyzed:	5/26/95
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/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 124389	Carbon Dioxide	2.14	54	JNB
2.	Alkane	21.69	11	J
3.	Alkane	23.40	11	J
4.	Alkane	24.97	8	J
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-0786-4
Report Date: 06/16/95
PO No. : 802SLOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SD010	Solid	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
TCL Semivolatile Organics by USEPA 8270								1,2,3
Phenol	<430.	µg/kgdrywt	1.3	330	EPA 8270	06/06/95	WF	
bis(2-Chloroethyl)ether	<430.	µg/kgdrywt	1.3	330	EPA 8270	06/06/95	WF	
2-Chlorophenol	<430.	µg/kgdrywt	1.3	330	EPA 8270	06/06/95	WF	
1,3-Dichlorobenzene	<430.	µg/kgdrywt	1.3	330	EPA 8270	06/06/95	WF	
1,4-Dichlorobenzene	J140.	µg/kgdrywt	1.3	330	EPA 8270	06/06/95	WF	
1,2-Dichlorobenzene	<430.	µg/kgdrywt	1.3	330	EPA 8270	06/06/95	WF	
2-Methylphenol	<430.	µg/kgdrywt	1.3	330	EPA 8270	06/06/95	WF	
bis(2-Chloroisopropyl) ether	<430.	µg/kgdrywt	1.3	330	EPA 8270	06/06/95	WF	
4-Methylphenol	<430.	µg/kgdrywt	1.3	330	EPA 8270	06/06/95	WF	
n-Nitroso-dipropylamine	<430.	µg/kgdrywt	1.3	330	EPA 8270	06/06/95	WF	
Hexachloroethane	<430.	µg/kgdrywt	1.3	330	EPA 8270	06/06/95	WF	
Nitrobenzene	<430.	µg/kgdrywt	1.3	330	EPA 8270	06/06/95	WF	

* 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) Sample Preparation on 05/31/95 by LAG using EPA 3550

(2) "J" flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.

(3) "B" flag denotes detection of this analyte in the laboratory method blank analyzed concurrently with the sample.

06/16/95

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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-0786-4
Report Date: 06/16/95
PO No. : 802SLOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SD010	Solid	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Isophorone	<430.	µg/kgdrywt	1.3	330	EPA 8270	06/06/95	WF	
2-Nitrophenol	<430.	µg/kgdrywt	1.3	330	EPA 8270	06/06/95	WF	
2,4-Dimethylphenol	<430.	µg/kgdrywt	1.3	330	EPA 8270	06/06/95	WF	
bis(2-Chloroethoxy)methane	<430.	µg/kgdrywt	1.3	330	EPA 8270	06/06/95	WF	
2,4-Dichlorophenol	<430.	µg/kgdrywt	1.3	330	EPA 8270	06/06/95	WF	
1,2,4-Trichlorobenzene	<430.	µg/kgdrywt	1.3	330	EPA 8270	06/06/95	WF	
Naphthalene	J180.	µg/kgdrywt	1.3	330	EPA 8270	06/06/95	WF	
4-Chloroaniline	<430.	µg/kgdrywt	1.3	330	EPA 8270	06/06/95	WF	
Hexachlorobutadiene	<430.	µg/kgdrywt	1.3	330	EPA 8270	06/06/95	WF	
4-Chloro-3-methylphenol	<430.	µg/kgdrywt	1.3	330	EPA 8270	06/06/95	WF	
2-Methylnaphthalene	J150.	µg/kgdrywt	1.3	330	EPA 8270	06/06/95	WF	
Hexachlorocyclopentadiene	<430.	µg/kgdrywt	1.3	330	EPA 8270	06/06/95	WF	
2,4,6-Trichlorophenol	<430.	µg/kgdrywt	1.3	330	EPA 8270	06/06/95	WF	
2,4,5-Trichlorophenol	<1100.	µg/kgdrywt	1.3	820	EPA 8270	06/06/95	WF	

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06/16/95

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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-0786-4
Report Date: 06/16/95
PO No. : 802SLOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SD010	Solid	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
2-Chloronaphthalene	<430.	µg/kgdrywt	1.3	330	EPA 8270	06/06/95	WF	
2-Nitroaniline	<1100.	µg/kgdrywt	1.3	820	EPA 8270	06/06/95	WF	
Dimethylphthalate	<430.	µg/kgdrywt	1.3	330	EPA 8270	06/06/95	WF	
Acenaphthylene	J35.	µg/kgdrywt	1.3	330	EPA 8270	06/06/95	WF	
2,6-Dinitrotoluene	<430.	µg/kgdrywt	1.3	330	EPA 8270	06/06/95	WF	
3-Nitroaniline	<1100.	µg/kgdrywt	1.3	820	EPA 8270	06/06/95	WF	
Acenaphthene	J300.	µg/kgdrywt	1.3	330	EPA 8270	06/06/95	WF	
2,4-Dinitrophenol	<1100.	µg/kgdrywt	1.3	820	EPA 8270	06/06/95	WF	
4-Nitrophenol	<1100.	µg/kgdrywt	1.3	820	EPA 8270	06/06/95	WF	
Dibenzofuran	J190.	µg/kgdrywt	1.3	330	EPA 8270	06/06/95	WF	
2,4-Dinitrotoluene	<430.	µg/kgdrywt	1.3	330	EPA 8270	06/06/95	WF	
Diethylphthalate	<430.	µg/kgdrywt	1.3	330	EPA 8270	06/06/95	WF	
4-Chlorophenyl phenyl ether	<430.	µg/kgdrywt	1.3	330	EPA 8270	06/06/95	WF	
Fluorene	J350.	µg/kgdrywt	1.3	330	EPA 8270	06/06/95	WF	

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06/16/95

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ENVIRONMENTAL LABORATORIES

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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SD010	Solid	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
4-Nitroaniline	<1100.	µg/kgdrywt	1.3	820	EPA 8270	06/06/95	WF	
4,6-Dinitro-2-methylphenol	<1100.	µg/kgdrywt	1.3	820	EPA 8270	06/06/95	WF	
n-Nitrosodiphenylamine	<430.	µg/kgdrywt	1.3	330	EPA 8270	06/06/95	WF	
4-Bromophenyl phenyl ether	<430.	µg/kgdrywt	1.3	330	EPA 8270	06/06/95	WF	
Hexachlorobenzene	<430.	µg/kgdrywt	1.3	330	EPA 8270	06/06/95	WF	
Pentachlorophenol	<1100.	µg/kgdrywt	1.3	820	EPA 8270	06/06/95	WF	
Phenanthrene	2400.	µg/kgdrywt	1.3	330	EPA 8270	06/06/95	WF	
Anthracene	J420.	µg/kgdrywt	1.3	330	EPA 8270	06/06/95	WF	
Carbazole	J310.	µg/kgdrywt	1.3	330	EPA 8270	06/06/95	WF	
Di-n-butylphthalate	JB36	µg/kgdrywt	1.3	330	EPA 8270	06/06/95	WF	
Fluoranthene	4100.	µg/kgdrywt	1.3	330	EPA 8270	06/06/95	WF	
Pyrene	3000.	µg/kgdrywt	1.3	330	EPA 8270	06/06/95	WF	
Butyl benzylphthalate	<430.	µg/kgdrywt	1.3	330	EPA 8270	06/06/95	WF	
3,3'-Dichlorobenzidine	<430.	µg/kgdrywt	1.3	330	EPA 8270	06/06/95	WF	

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06/16/95

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[illegible] ME 04098
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SD010	Solid	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Benzo(a)anthracene	1600.	µg/kgdrywt	1.3	330	EPA 8270	06/06/95	WF	
Chrysene	1600.	µg/kgdrywt	1.3	330	EPA 8270	06/06/95	WF	
bis(2-Ethylhexyl)phthalate	J43.	µg/kgdrywt	1.3	330	EPA 8270	06/06/95	WF	
Di-n-octylphthalate	<430.	µg/kgdrywt	1.3	330	EPA 8270	06/06/95	WF	
Benzo(b)fluoranthene	2900.	µg/kgdrywt	1.3	330	EPA 8270	06/06/95	WF	
Benzo(k)fluoranthene	<430.	µg/kgdrywt	1.3	330	EPA 8270	06/06/95	WF	
Benzo(a)pyrene	1400.	µg/kgdrywt	1.3	330	EPA 8270	06/06/95	WF	
Indeno(1,2,3-cd)pyrene	820.	µg/kgdrywt	1.3	330	EPA 8270	06/06/95	WF	
Dibenzo(a,h)anthracene	J260.	µg/kgdrywt	1.3	330	EPA 8270	06/06/95	WF	
Benzo(g,h,i)perylene	910.	µg/kgdrywt	1.3	330	EPA 8270	06/06/95	WF	
2-Fluorophenol(Surr.)	78.	%	1.3		EPA 8270	06/06/95	WF	
Phenol-d5(Surr.)	79.	%	1.3		EPA 8270	06/06/95	WF	
Nitrobenzene-d5(Surr.)	84.	%	1.3		EPA 8270	06/06/95	WF	
2-Fluorobiphenyl(Surr.)	89.	%	1.3		EPA 8270	06/06/95	WF	

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06/16/95

LJO/jcbajc/gbp(dw)/sra
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ENVIRONMENTAL LABORATORIES

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Newburgh, New York 12550

Lab Number : WL-0786-4
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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SD010	Solid	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
2,4,6-Tribromophenol (Surr.)	88.	%	1.3		EPA 8270	06/06/95	WF	
Terphenyl-d14 (Surr.)	83.	%	1.3		EPA 8270	06/06/95	WF	
2-Chlorophenol-d4 (Surr.)	84.	%	1.3		EPA 8270	06/06/95	WF	
1,2-Dichlorobenzene-d4 (Surr.)	80.	%	1.3		EPA 8270	06/06/95	WF	

* 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.

06/16/95

LJO/jcbajc/gbp(dw)/sra
LE31S1

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: PACE, INC.

SDG No.: S9SD012

Matrix (soil/water): soil

Lab Sample ID: S9SD010

Sample wt/vol: 30 (g/ml) g

Lab File ID: Z7149

Level: (low/med) low

Date Received: 5/19/95

% Moisture: not dec. 25 N (Y/N) Decanted

Date Extracted: 5/31/95

Concentrated Extract Volume 500 (ul)

Date Analyzed: 6/6/95

Injection Volume 1.0 (ul)

Dilution Factor: 1.0

GPC Cleanup: Y (Y/N)

Soil Aliquot Volume: 0 (ul)

pH: N/A

CONCENTRATION UNITS
(ug/L or ug/KG) ug/KG

Number of TIC's: 17

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	4.87	1200	J
2.	Unknown	5.65	740	J
3. 123422	4-hydroxy-4-methyl-2-Pentanone	5.93	25000	JNAB
4.	Unknown Aldol	6.04	250	JNA
5.	Alkane	19.60	250	J
6.	PAH, MW=192	22.11	250	J
7.	PAH, MW=192	22.19	310	J
8.	PAH, MW=190	22.38	580	J
9. 84651	9,10-Anthracenedione	22.93	450	JN
10. 243174	11H-Benzo[b]fluorene	25.38	340	JN
11. 238846	11H-Benzo[a]fluorene	25.55	300	JN
12.	Unknown, MW=229	26.48	340	J
13.	Unknown	27.05	810	J
14.	Unknown	27.99	260	J
15.	Alkane	29.20	260	J
16. 514078	D-Friedoolean-14-en-3-one	34.69	4400	JN
17.	Unknown	35.46	1700	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-0786-5
Report Date: 06/16/95
PO No. : 802SLOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SDDUP1	Solid	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Volatile Organics by EPA 8260								1,2
Chloromethane	<6.5	µg/kgdrywt	1.3	5.0	EPA 8260	05/19/95	DW	
Bromomethane	<6.5	µg/kgdrywt	1.3	5.0	EPA 8260	05/19/95	DW	
Vinyl chloride	<2.6	µg/kgdrywt	1.3	2.0	EPA 8260	05/19/95	DW	
Chloroethane	<2.6	µg/kgdrywt	1.3	2.0	EPA 8260	05/19/95	DW	
Methylene chloride	JB3	µg/kgdrywt	1.3	3.0	EPA 8260	05/19/95	DW	
Acetone	13.	µg/kgdrywt	1.3	5.0	EPA 8260	05/19/95	DW	
Carbon disulfide	<6.5	µg/kgdrywt	1.3	5.0	EPA 8260	05/19/95	DW	
1,1-Dichloroethene	<1.3	µg/kgdrywt	1.3	1.0	EPA 8260	05/19/95	DW	
1,1-Dichloroethane	<2.6	µg/kgdrywt	1.3	2.0	EPA 8260	05/19/95	DW	
Total 1,2-Dichloroethene	3.	µg/kgdrywt	1.3	2.0	EPA 8260	05/19/95	DW	
Chloroform	<6.5	µg/kgdrywt	1.3	5.0	EPA 8260	05/19/95	DW	
1,2-Dichloroethane	<2.6	µg/kgdrywt	1.3	2.0	EPA 8260	05/19/95	DW	
2-Butanone	<6.5	µg/kgdrywt	1.3	5.0	EPA 8260	05/19/95	DW	
1,1,1-Trichloroethane	<2.6	µg/kgdrywt	1.3	2.0	EPA 8260	05/19/95	DW	

* 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.

06/16/95

LJO/jcbeaw/gbp(dw)/sra
LE19VLS1

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0786-5
Report Date: 06/16/95
PO No. : 802SLOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SDDUP1	Solid	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Carbon tetrachloride	<6.5	µg/kgdrywt	1.3	5.0	EPA 8260	05/19/95	DW	
Bromodichloromethane	<6.5	µg/kgdrywt	1.3	5.0	EPA 8260	05/19/95	DW	
1,2-Dichloropropane	<3.3	µg/kgdrywt	1.3	2.5	EPA 8260	05/19/95	DW	
cis-1,3-Dichloropropene	<6.5	µg/kgdrywt	1.3	5.0	EPA 8260	05/19/95	DW	
Trichloroethene	J2.	µg/kgdrywt	1.3	2.5	EPA 8260	05/19/95	DW	
Dibromochloromethane	<6.5	µg/kgdrywt	1.3	5.0	EPA 8260	05/19/95	DW	
1,1,2-Trichloroethane	<6.5	µg/kgdrywt	1.3	5.0	EPA 8260	05/19/95	DW	
Benzene	<2.6	µg/kgdrywt	1.3	2.0	EPA 8260	05/19/95	DW	
trans-1,3-Dichloropropene	<6.5	µg/kgdrywt	1.3	5.0	EPA 8260	05/19/95	DW	
Bromoform	<6.5	µg/kgdrywt	1.3	5.0	EPA 8260	05/19/95	DW	
4-Methyl-2-pentanone	<3.9	µg/kgdrywt	1.3	3.0	EPA 8260	05/19/95	DW	
2-Hexanone	<5.2	µg/kgdrywt	1.3	4.0	EPA 8260	05/19/95	DW	
Tetrachloroethene	<2.6	µg/kgdrywt	1.3	2.0	EPA 8260	05/19/95	DW	
1,1,2,2-Tetrachloroethane	<6.5	µg/kgdrywt	1.3	5.0	EPA 8260	05/19/95	DW	
Toluene	<2.6	µg/kgdrywt	1.3	2.0	EPA 8260	05/19/95	DW	

* 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.

06/16/95

LJO/jcbeaw/gbp(dw)/sra
LE19VLS1

ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0786-5
Report Date: 06/16/95
PO No. : 802SLOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
SPSLDUP1	Solid	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chlorobenzene	<6.5	µg/kgdrywt	1.3	5.0	EPA 8260	05/19/95	DW	
Ethylbenzene	<2.6	µg/kgdrywt	1.3	2.0	EPA 8260	05/19/95	DW	
Styrene	<2.6	µg/kgdrywt	1.3	2.0	EPA 8260	05/19/95	DW	
Total Xylenes	<2.6	µg/kgdrywt	1.3	2.0	EPA 8260	05/19/95	DW	
Dibromofluoromethane (Surr.)	101.	%	1.3		EPA 8260	05/19/95	DW	
Toluene-d8 (Surr.)	96.	%	1.3		EPA 8260	05/19/95	DW	
p-Bromofluorobenzene (Surr.)	87.	%	1.3		EPA 8260	05/19/95	DW	

* 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.

06/16/95

LJO/jcbeaw/gbp(dw)/sra
LE19VLS1

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.:	S9SD012
Matrix (soil/water)	Soil	Lab Sample ID:	S9SDDUP1
Sample wt/vol:	5 (g/ml) g	Lab File ID:	Y9052
Level: (low/med)	low	Date Received:	5/19/95
% Moisture: not dec.	20	Date Analyzed:	5/19/95
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/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 124389	Carbon Dioxide	2.15	49	JNB
2.	Alkane	23.38	8	J
3.	Alkane	23.62	7	J
4.	Alkane	24.55	10	J
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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-0786-5
Report Date: 06/16/95
PO No. : 802SLOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SDDUP1	Solid	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
TCL Semivolatile Organics by USEPA 8270								1,2,3
Phenol	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/06/95	WF	
bis(2-Chloroethyl)ether	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/06/95	WF	
2-Chlorophenol	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/06/95	WF	
1,3-Dichlorobenzene	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/06/95	WF	
1,4-Dichlorobenzene	J34.	µg/kgdrywt	1.2	330	EPA 8270	06/06/95	WF	
1,2-Dichlorobenzene	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/06/95	WF	
2-Methylphenol	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/06/95	WF	
bis(2-Chloroisopropyl) ether	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/06/95	WF	
4-Methylphenol	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/06/95	WF	
n-Nitroso-dipropylamine	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/06/95	WF	
Hexachloroethane	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/06/95	WF	
Nitrobenzene	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/06/95	WF	

* 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) Sample Preparation on 05/31/95 by LAG using EPA 3550
(2) "J" flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.
(3) "B" flag denotes detection of this analyte in the laboratory method blank analyzed concurrently with the sample.

06/16/95

LJO/jcbajc/gbp(dw)/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-0786-5
Report Date: 06/16/95
PO No. : 802SLOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SDDUP1	Solid	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Isophorone	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/06/95	WF	
2-Nitrophenol	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/06/95	WF	
2,4-Dimethylphenol	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/06/95	WF	
bis(2-Chloroethoxy)methane	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/06/95	WF	
2,4-Dichlorophenol	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/06/95	WF	
1,2,4-Trichlorobenzene	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/06/95	WF	
Naphthalene	J120.	µg/kgdrywt	1.2	330	EPA 8270	06/06/95	WF	
4-Chloroaniline	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/06/95	WF	
Hexachlorobutadiene	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/06/95	WF	
4-Chloro-3-methylphenol	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/06/95	WF	
2-Methylnaphthalene	J71.	µg/kgdrywt	1.2	330	EPA 8270	06/06/95	WF	
Hexachlorocyclopentadiene	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/06/95	WF	
2,4,6-Trichlorophenol	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/06/95	WF	
2,4,5-Trichlorophenol	<980.	µg/kgdrywt	1.2	820	EPA 8270	06/06/95	WF	

* 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.

06/16/95

LJO/jcbajc/gbp(dw)/sra
LE31S1

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0786-5
Report Date: 06/16/95
PO No. : 802SLOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SDDUP1	Solid	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
2-Chloronaphthalene	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/06/95	WF	
2-Nitroaniline	<980.	µg/kgdrywt	1.2	820	EPA 8270	06/06/95	WF	
Dimethylphthalate	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/06/95	WF	
Acenaphthylene	J14.	µg/kgdrywt	1.2	330	EPA 8270	06/06/95	WF	
2,6-Dinitrotoluene	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/06/95	WF	
3-Nitroaniline	<980.	µg/kgdrywt	1.2	820	EPA 8270	06/06/95	WF	
Acenaphthene	J330.	µg/kgdrywt	1.2	330	EPA 8270	06/06/95	WF	
2,4-Dinitrophenol	<980.	µg/kgdrywt	1.2	820	EPA 8270	06/06/95	WF	
4-Nitrophenol	<980.	µg/kgdrywt	1.2	820	EPA 8270	06/06/95	WF	
Dibenzofuran	J190.	µg/kgdrywt	1.2	330	EPA 8270	06/06/95	WF	
2,4-Dinitrotoluene	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/06/95	WF	
Diethylphthalate	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/06/95	WF	
4-Chlorophenyl phenyl ether	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/06/95	WF	
Fluorene	J370.	µg/kgdrywt	1.2	330	EPA 8270	06/06/95	WF	

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06/16/95

LJO/jcbajc/gbp(dw)/sra
LE31S1

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0786-5
Report Date: 06/16/95
PO No. : 802SLOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SDDUP1	Solid	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
4-Nitroaniline	<980.	µg/kgdrywt	1.2	820	EPA 8270	06/06/95	WF	
4,6-Dinitro-2-methylphenol	<980.	µg/kgdrywt	1.2	820	EPA 8270	06/06/95	WF	
n-Nitrosodiphenylamine	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/06/95	WF	
4-Bromophenyl phenyl ether	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/06/95	WF	
Hexachlorobenzene	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/06/95	WF	
Pentachlorophenol	<980.	µg/kgdrywt	1.2	820	EPA 8270	06/06/95	WF	
Phenanthrene	2900.	µg/kgdrywt	1.2	330	EPA 8270	06/06/95	WF	
Anthracene	480.	µg/kgdrywt	1.2	330	EPA 8270	06/06/95	WF	
Carbazole	430.	µg/kgdrywt	1.2	330	EPA 8270	06/06/95	WF	
Di-n-butylphthalate	JB25	µg/kgdrywt	1.2	330	EPA 8270	06/06/95	WF	
Fluoranthene	3700.	µg/kgdrywt	1.2	330	EPA 8270	06/06/95	WF	
Pyrene	2800.	µg/kgdrywt	1.2	330	EPA 8270	06/06/95	WF	
Butyl benzylphthalate	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/06/95	WF	
3,3'-Dichlorobenzidine	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/06/95	WF	

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06/16/95

LJO/jcbajc/gbp(dw)/sra
LE31S1

ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0786-5
Report Date: 06/16/95
PO No. : 802SLOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SDDUP1	Solid	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Benzo(a)anthracene	1400.	µg/kgdrywt	1.2	330	EPA 8270	06/06/95	WF	
Chrysene	1600.	µg/kgdrywt	1.2	330	EPA 8270	06/06/95	WF	
bis(2-Ethylhexyl)phthalate	J77.	µg/kgdrywt	1.2	330	EPA 8270	06/06/95	WF	
Di-n-octylphthalate	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/06/95	WF	
Benzo(b)fluoranthene	2600.	µg/kgdrywt	1.2	330	EPA 8270	06/06/95	WF	
Benzo(k)fluoranthene	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/06/95	WF	
Benzo(a)pyrene	1300.	µg/kgdrywt	1.2	330	EPA 8270	06/06/95	WF	
Indeno(1,2,3-cd)pyrene	840.	µg/kgdrywt	1.2	330	EPA 8270	06/06/95	WF	
Dibenzo(a,h)anthracene	J280.	µg/kgdrywt	1.2	330	EPA 8270	06/06/95	WF	
Benzo(g,h,i)perylene	960.	µg/kgdrywt	1.2	330	EPA 8270	06/06/95	WF	
2-Fluorophenol(Surr.)	77.	%	1.2		EPA 8270	06/06/95	WF	
Phenol-d5(Surr.)	76.	%	1.2		EPA 8270	06/06/95	WF	
Nitrobenzene-d5(Surr.)	81.	%	1.2		EPA 8270	06/06/95	WF	
2-Fluorobiphenyl(Surr.)	86.	%	1.2		EPA 8270	06/06/95	WF	

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06/16/95

LJO/jcbajc/gbp(dw)/sra
LE31S1

[illegible] Box 720
[illegible] ME 04098
TEL: 207-874-2400
FAX: [illegible]

An Equal Opportunity Employer

ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0786-5
Report Date: 06/16/95
PO No. : 802SLOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SDDUP1	Solid	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
2,4,6-Tribromophenol(Surr.)	87.	%	1.2		EPA 8270	06/06/95	WF	
Terphenyl-d14(Surr.)	84.	%	1.2		EPA 8270	06/06/95	WF	
2-Chlorophenol-d4(Surr.)	82.	%	1.2		EPA 8270	06/06/95	WF	
1,2-Dichlorobenzene-d4(Surr.)	79.	%	1.2		EPA 8270	06/06/95	WF	

* 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.

06/16/95

LJO/jcbajc/gbp(dw)/sra
LE31S1

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: PACE, INC.
SDG No.: S9SD012
Matrix (soil/water): soil
Lab Sample ID: S9SDDUP1
Sample wt/vol: 30 (g/ml) g
Lab File ID: Z7150
Level: (low/med) low
Date Received: 5/19/95
% Moisture: not dec. 20 N (Y/N) Decanted
Date Extracted: 5/31/95
Concentrated Extract Volume 500 (ul)
Date Analyzed: 6/6/95
Injection Volume 1.0 (ul)
Dilution Factor: 1.0
GPC Cleanup: Y (Y/N)
Soil Aliquot Volume: 0 (ul)
pH: N/A
CONCENTRATION UNITS (ug/L or ug/KG) ug/KG

Number of TIC's: 15

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	4.06	550	J
2.	Unknown	4.90	2200	J
3.	Unknown	5.67	1500	J
4. 123422	2-Pentanone, 4-hydroxy-4-methyl-	5.96	22000	JNAB
5.	Unknown Aldol	6.07	190	J
6.	PAH. MW=192	22.13	200	J
7.	PAH. MW=192	22.19	230	J
8.	PAH. MW=190	22.38	440	J
9. 84651	9,10-Anthracenedione	22.93	500	JN
10. 243174	11H-Benzo[b]fluorene	25.39	420	JN
11. 238846	11H-Benzo[a]fluorene	25.56	290	JN
12.	PAH. MW=226	27.05	430	J
13.	Alkane	30.72	340	J
14. 205823	Benzo[j]fluoranthene	30.79	890	JN
15. 514078	D-Friedoolean-14-en-3-one	34.68	1400	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-0786-6
Report Date: 06/16/95
PO No. : 802SLOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SD011	Solid	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Volatile Organics by EPA 8260								1,2,3
Chloromethane	<10.	µg/kgdrywt	2.0	5.0	EPA 8260	05/19/95	DW	
Bromomethane	<10.	µg/kgdrywt	2.0	5.0	EPA 8260	05/19/95	DW	
Vinyl chloride	<4.	µg/kgdrywt	2.0	2.0	EPA 8260	05/19/95	DW	
Chloroethane	<4.	µg/kgdrywt	2.0	2.0	EPA 8260	05/19/95	DW	
Methylene chloride	B6	µg/kgdrywt	2.0	3.0	EPA 8260	05/19/95	DW	
Acetone	350.	µg/kgdrywt	2.0	5.0	EPA 8260	05/19/95	DW	
Carbon disulfide	<10.	µg/kgdrywt	2.0	5.0	EPA 8260	05/19/95	DW	
1,1-Dichloroethene	<2.	µg/kgdrywt	2.0	1.0	EPA 8260	05/19/95	DW	
1,1-Dichloroethane	<4.	µg/kgdrywt	2.0	2.0	EPA 8260	05/19/95	DW	
Total 1,2-Dichloroethene	<4.	µg/kgdrywt	2.0	2.0	EPA 8260	05/19/95	DW	
Chloroform	<10.	µg/kgdrywt	2.0	5.0	EPA 8260	05/19/95	DW	
1,2-Dichloroethane	<4.	µg/kgdrywt	2.0	2.0	EPA 8260	05/19/95	DW	
2-Butanone	22.	µg/kgdrywt	2.0	5.0	EPA 8260	05/19/95	DW	

* 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) "$" flag denotes surrogate compound recovery is out of criteria. Re-extraction or re-analysis confirmed matrix interference.

(3) Internal standard area(s) are out of criteria. Reanalysis confirmed matrix interference.

06/16/95

LJO/jcbeaw/gbp(dw)/sra
LE19VLS1

ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0786-6
Report Date: 06/16/95
PO No. : 802SLOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SD011	Solid	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
1,1,1-Trichloroethane	<4.	µg/kgdrywt	2.0	2.0	EPA 8260	05/19/95	DW	
Carbon tetrachloride	<10.	µg/kgdrywt	2.0	5.0	EPA 8260	05/19/95	DW	
Bromodichloromethane	<10.	µg/kgdrywt	2.0	5.0	EPA 8260	05/19/95	DW	
1,2-Dichloropropane	<5.	µg/kgdrywt	2.0	2.5	EPA 8260	05/19/95	DW	
cis-1,3-Dichloropropene	<10.	µg/kgdrywt	2.0	5.0	EPA 8260	05/19/95	DW	
Trichloroethene	<5.	µg/kgdrywt	2.0	2.5	EPA 8260	05/19/95	DW	
Dibromochloromethane	<10.	µg/kgdrywt	2.0	5.0	EPA 8260	05/19/95	DW	
1,1,2-Trichloroethane	<10.	µg/kgdrywt	2.0	5.0	EPA 8260	05/19/95	DW	
Benzene	<4.	µg/kgdrywt	2.0	2.0	EPA 8260	05/19/95	DW	
trans-1,3-Dichloropropene	<10.	µg/kgdrywt	2.0	5.0	EPA 8260	05/19/95	DW	
Bromoform	<10.	µg/kgdrywt	2.0	5.0	EPA 8260	05/19/95	DW	
4-Methyl-2-pentanone	<6.	µg/kgdrywt	2.0	3.0	EPA 8260	05/19/95	DW	
2-Hexanone	<8.	µg/kgdrywt	2.0	4.0	EPA 8260	05/19/95	DW	
Tetrachloroethene	<4.	µg/kgdrywt	2.0	2.0	EPA 8260	05/19/95	DW	

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06/16/95

LJO/jcbeaw/gbp(dw)/sra
LE19VLS1

ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
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Newburgh, New York 12550

Lab Number : WL-0786-6
Report Date: 06/16/95
PO No. : 802SLOA
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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SD011	Solid	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
1,1,2,2-Tetrachloroethane	<10.	µg/kgdrywt	2.0	5.0	EPA 8260	05/19/95	DW	
Toluene	<4.	µg/kgdrywt	2.0	2.0	EPA 8260	05/19/95	DW	
Chlorobenzene	<10.	µg/kgdrywt	2.0	5.0	EPA 8260	05/19/95	DW	
Ethylbenzene	<4.	µg/kgdrywt	2.0	2.0	EPA 8260	05/19/95	DW	
Styrene	<4.	µg/kgdrywt	2.0	2.0	EPA 8260	05/19/95	DW	
Total Xylenes	<4.	µg/kgdrywt	2.0	2.0	EPA 8260	05/19/95	DW	
Dibromofluoromethane (Surr.)	103.	%	2.0		EPA 8260	05/19/95	DW	
Toluene-d8 (Surr.)	87.	%	2.0		EPA 8260	05/19/95	DW	
p-Bromofluorobenzene (Surr.)	$54	%	2.0		EPA 8260	05/19/95	DW	

* 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.

06/16/95

LJO/jcbeaw/gbp(dw)/sra
LE19VLS1

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: PACE, INC.
SDG No.: S9SD012
Matrix (soil/water): Soil
Lab Sample ID: S9SD011
Sample wt/vol: 5 (g/ml) g
Lab File ID: Y9053
Level: (low/med) low
Date Received: 5/19/95
% Moisture: not dec. 50
Date Analyzed: 5/19/95
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/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 124389	Carbon Dioxide	2.15	250	JNB
2.	C10 H14 isomer	21.83	93	J
3.	C10 H14 isomer	22.33	44	J
4.	C10 H14 isomer	22.61	69	J
5.	C10 H14 isomer	22.95	30	J
6.	C10 H12 isomer	23.25	59	J
7.	C10 H12 isomer	23.50	150	J
8.	C11 H14 isomer	24.07	62	J
9.	C11 H14 isomer	24.80	14	J
10.				
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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-0786-6
Report Date: 06/16/95
PO No. : 802SLOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SD011	Solid	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Volatile Organics by EPA 8260								1,2,3
Reanalysis								
Chloromethane	<10.	µg/kgdrywt	2.0	5.0	EPA 8260	05/26/95	DW	
Bromomethane	<10.	µg/kgdrywt	2.0	5.0	EPA 8260	05/26/95	DW	
Vinyl chloride	<4.	µg/kgdrywt	2.0	2.0	EPA 8260	05/26/95	DW	
Chloroethane	<4.	µg/kgdrywt	2.0	2.0	EPA 8260	05/26/95	DW	
Methylene chloride	B18	µg/kgdrywt	2.0	3.0	EPA 8260	05/26/95	DW	
Acetone	64.	µg/kgdrywt	2.0	5.0	EPA 8260	05/26/95	DW	
Carbon disulfide	<10.	µg/kgdrywt	2.0	5.0	EPA 8260	05/26/95	DW	
1,1-Dichloroethene	<2.	µg/kgdrywt	2.0	1.0	EPA 8260	05/26/95	DW	
1,1-Dichloroethane	<4.	µg/kgdrywt	2.0	2.0	EPA 8260	05/26/95	DW	
Total 1,2-Dichloroethene	<4.	µg/kgdrywt	2.0	2.0	EPA 8260	05/26/95	DW	
Chloroform	<10.	µg/kgdrywt	2.0	5.0	EPA 8260	05/26/95	DW	
1,2-Dichloroethane	<4.	µg/kgdrywt	2.0	2.0	EPA 8260	05/26/95	DW	

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(1) "B" flag denotes detection of this analyte in the laboratory method blank analyzed concurrently with the sample.

(2) "S" flag denotes surrogate compound recovery is out of criteria. Re-extraction or re-analysis confirmed matrix interference.

(3) Internal standard area(s) are out of criteria. Reanalysis confirmed matrix interference.

06/16/95

LJO/jcbeaw/gbp(dw)/sra
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0786-6
Report Date: 06/16/95
PO No. : 802SLOA
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
S9SD011	Solid	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
2-Butanone	13.	µg/kgdrywt	2.0	5.0	EPA 8260	05/26/95	DW	
1,1,1-Trichloroethane	<4.	µg/kgdrywt	2.0	2.0	EPA 8260	05/26/95	DW	
Carbon tetrachloride	<10.	µg/kgdrywt	2.0	5.0	EPA 8260	05/26/95	DW	
Bromodichloromethane	<10.	µg/kgdrywt	2.0	5.0	EPA 8260	05/26/95	DW	
1,2-Dichloropropane	<5.	µg/kgdrywt	2.0	2.5	EPA 8260	05/26/95	DW	
cis-1,3-Dichloropropene	<10.	µg/kgdrywt	2.0	5.0	EPA 8260	05/26/95	DW	
Trichloroethene	<5.	µg/kgdrywt	2.0	2.5	EPA 8260	05/26/95	DW	
Dibromochloromethane	<10.	µg/kgdrywt	2.0	5.0	EPA 8260	05/26/95	DW	
1,1,2-Trichloroethane	<10.	µg/kgdrywt	2.0	5.0	EPA 8260	05/26/95	DW	
Benzene	<4.	µg/kgdrywt	2.0	2.0	EPA 8260	05/26/95	DW	
trans-1,3-Dichloropropene	<10.	µg/kgdrywt	2.0	5.0	EPA 8260	05/26/95	DW	
Bromoform	<10.	µg/kgdrywt	2.0	5.0	EPA 8260	05/26/95	DW	
4-Methyl-2-pentanone	<6.	µg/kgdrywt	2.0	3.0	EPA 8260	05/26/95	DW	
2-Hexanone	<8.	µg/kgdrywt	2.0	4.0	EPA 8260	05/26/95	DW	

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06/16/95

LJO/jcbeaw/gbp(dw)/sra
LE26VLS1

ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0786-6
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PO No. : 802SLOA
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
S9SD011	Solid	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Tetrachloroethene	<4.	µg/kgdrywt	2.0	2.0	EPA 8260	05/26/95	DW	
1,1,2,2-Tetrachloroethane	<10.	µg/kgdrywt	2.0	5.0	EPA 8260	05/26/95	DW	
Toluene	<4.	µg/kgdrywt	2.0	2.0	EPA 8260	05/26/95	DW	
Chlorobenzene	<10.	µg/kgdrywt	2.0	5.0	EPA 8260	05/26/95	DW	
Ethylbenzene	<4.	µg/kgdrywt	2.0	2.0	EPA 8260	05/26/95	DW	
Styrene	<4.	µg/kgdrywt	2.0	2.0	EPA 8260	05/26/95	DW	
Total Xylenes	<4.	µg/kgdrywt	2.0	2.0	EPA 8260	05/26/95	DW	
Dibromofluoromethane (Surr.)	105.	%	2.0		EPA 8260	05/26/95	DW	
Toluene-d8 (Surr.)	92.	%	2.0		EPA 8260	05/26/95	DW	
p-Bromofluorobenzene (Surr.)	$62	%	2.0		EPA 8260	05/26/95	DW	

* 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.

06/16/95

LJO/jcbeaw/gbp(dw)/sra
LE26VLS1

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.: S9SD012	
Matrix (soil/water)	Soil	Lab Sample ID:	S9SD011RE
Sample wt/vol:	5 (g/ml) g	Lab File ID:	Y9204
Level: (low/med)	low	Date Received:	5/19/95
% Moisture: not dec.	50	Date Analyzed:	5/26/95
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: 12

CONCENTRATION UNITS (ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 124389	Carbon Dioxide	2.15	140	JNB
2.	C10 H14 isomer	21.42	11	J
3.	C10 H14 isomer	21.54	21	J
4.	C10 H14 isomer	21.85	68	J
5.	C10 H14 isomer	22.35	31	J
6.	C10 H14 isomer	22.62	55	J
7.	C10 H14 isomer	22.96	22	J
8.	C10 H12 isomer	23.26	46	J
9.	C10 H12 isomer	23.52	120	J
10.	C11 H14 isomer	24.08	51	J
11.	C11 H16 isomer	24.55	13	J
12.	C11 H16 isomer	24.81	13	J
13.				
14.				
15.				
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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-0786-6
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PO No. : 802SLOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SD011	Solid	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
TCL Semivolatile Organics by USEPA 8270								1,2
Phenol	<660.	µg/kgdrywt	2.0	330	EPA 8270	06/07/95	WF	
bis(2-Chloroethyl)ether	<660.	µg/kgdrywt	2.0	330	EPA 8270	06/07/95	WF	
2-Chlorophenol	<660.	µg/kgdrywt	2.0	330	EPA 8270	06/07/95	WF	
1,3-Dichlorobenzene	<660.	µg/kgdrywt	2.0	330	EPA 8270	06/07/95	WF	
1,4-Dichlorobenzene	<660.	µg/kgdrywt	2.0	330	EPA 8270	06/07/95	WF	
1,2-Dichlorobenzene	<660.	µg/kgdrywt	2.0	330	EPA 8270	06/07/95	WF	
2-Methylphenol	<660.	µg/kgdrywt	2.0	330	EPA 8270	06/07/95	WF	
bis(2-Chloroisopropyl) ether	<660.	µg/kgdrywt	2.0	330	EPA 8270	06/07/95	WF	
4-Methylphenol	<660.	µg/kgdrywt	2.0	330	EPA 8270	06/07/95	WF	
n-Nitroso-dipropylamine	<660.	µg/kgdrywt	2.0	330	EPA 8270	06/07/95	WF	
Hexachloroethane	<660.	µg/kgdrywt	2.0	330	EPA 8270	06/07/95	WF	
Nitrobenzene	<660.	µg/kgdrywt	2.0	330	EPA 8270	06/07/95	WF	
Isophorone	<660.	µg/kgdrywt	2.0	330	EPA 8270	06/07/95	WF	

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(1) Sample Preparation on 05/31/95 by LAG using EPA 3550
(2) "J" flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.

06/16/95

LJO/jcbajc/gbp(dw)/sra
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

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Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SD011	Solid	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
2-Nitrophenol	<660.	µg/kgdrywt	2.0	330	EPA 8270	06/07/95	WF	
2,4-Dimethylphenol	<660.	µg/kgdrywt	2.0	330	EPA 8270	06/07/95	WF	
bis(2-Chloroethoxy)methane	<660.	µg/kgdrywt	2.0	330	EPA 8270	06/07/95	WF	
2,4-Dichlorophenol	<660.	µg/kgdrywt	2.0	330	EPA 8270	06/07/95	WF	
1,2,4-Trichlorobenzene	<660.	µg/kgdrywt	2.0	330	EPA 8270	06/07/95	WF	
Naphthalene	<660.	µg/kgdrywt	2.0	330	EPA 8270	06/07/95	WF	
4-Chloroaniline	<660.	µg/kgdrywt	2.0	330	EPA 8270	06/07/95	WF	
Hexachlorobutadiene	<660.	µg/kgdrywt	2.0	330	EPA 8270	06/07/95	WF	
4-Chloro-3-methylphenol	<660.	µg/kgdrywt	2.0	330	EPA 8270	06/07/95	WF	
2-Methylnaphthalene	<660.	µg/kgdrywt	2.0	330	EPA 8270	06/07/95	WF	
Hexachlorocyclopentadiene	<660.	µg/kgdrywt	2.0	330	EPA 8270	06/07/95	WF	
2,4,6-Trichlorophenol	<660.	µg/kgdrywt	2.0	330	EPA 8270	06/07/95	WF	
2,4,5-Trichlorophenol	<1600.	µg/kgdrywt	2.0	820	EPA 8270	06/07/95	WF	
2-Chloronaphthalene	<660.	µg/kgdrywt	2.0	330	EPA 8270	06/07/95	WF	
2-Nitroaniline	<1600.	µg/kgdrywt	2.0	820	EPA 8270	06/07/95	WF	

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06/16/95

LJO/jcbajc/gbp(dw)/sra
LE31S1

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0786-6
Report Date: 06/16/95
PO No. : 802SLOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SD011	Solid	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Dimethylphthalate	<660.	µg/kgdrywt	2.0	330	EPA 8270	06/07/95	WF	
Acenaphthylene	<660.	µg/kgdrywt	2.0	330	EPA 8270	06/07/95	WF	
2,6-Dinitrotoluene	<660.	µg/kgdrywt	2.0	330	EPA 8270	06/07/95	WF	
3-Nitroaniline	<1600.	µg/kgdrywt	2.0	820	EPA 8270	06/07/95	WF	
Acenaphthene	J70.	µg/kgdrywt	2.0	330	EPA 8270	06/07/95	WF	
2,4-Dinitrophenol	<1600.	µg/kgdrywt	2.0	820	EPA 8270	06/07/95	WF	
4-Nitrophenol	<1600.	µg/kgdrywt	2.0	820	EPA 8270	06/07/95	WF	
Dibenzofuran	<660.	µg/kgdrywt	2.0	330	EPA 8270	06/07/95	WF	
2,4-Dinitrotoluene	<660.	µg/kgdrywt	2.0	330	EPA 8270	06/07/95	WF	
Diethylphthalate	<660.	µg/kgdrywt	2.0	330	EPA 8270	06/07/95	WF	
4-Chlorophenyl phenyl ether	<660.	µg/kgdrywt	2.0	330	EPA 8270	06/07/95	WF	
Fluorene	<660.	µg/kgdrywt	2.0	330	EPA 8270	06/07/95	WF	
4-Nitroaniline	<1600.	µg/kgdrywt	2.0	820	EPA 8270	06/07/95	WF	
4,6-Dinitro-2-methylphenol	<1600.	µg/kgdrywt	2.0	820	EPA 8270	06/07/95	WF	
n-Nitrosodiphenylamine	<660.	µg/kgdrywt	2.0	330	EPA 8270	06/07/95	WF	

* 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.

06/16/95

LJO/jcbajc/gbp(dw)/sra
LE31S1

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ENVIRONMENTAL LABORATORIES

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Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SD011	Solid	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
4-Bromophenyl phenyl ether	<660.	µg/kgdrywt	2.0	330	EPA 8270	06/07/95	WF	
Hexachlorobenzene	<660.	µg/kgdrywt	2.0	330	EPA 8270	06/07/95	WF	
Pentachlorophenol	<1600.	µg/kgdrywt	2.0	820	EPA 8270	06/07/95	WF	
Phenanthrene	J62.	µg/kgdrywt	2.0	330	EPA 8270	06/07/95	WF	
Anthracene	<660.	µg/kgdrywt	2.0	330	EPA 8270	06/07/95	WF	
Carbazole	<660.	µg/kgdrywt	2.0	330	EPA 8270	06/07/95	WF	
Di-n-butylphthalate	<660.	µg/kgdrywt	2.0	330	EPA 8270	06/07/95	WF	
Fluoranthene	J110.	µg/kgdrywt	2.0	330	EPA 8270	06/07/95	WF	
Pyrene	J96.	µg/kgdrywt	2.0	330	EPA 8270	06/07/95	WF	
Butyl benzylphthalate	<660.	µg/kgdrywt	2.0	330	EPA 8270	06/07/95	WF	
3,3'-Dichlorobenzidine	<660.	µg/kgdrywt	2.0	330	EPA 8270	06/07/95	WF	
Benzo(a)anthracene	<660.	µg/kgdrywt	2.0	330	EPA 8270	06/07/95	WF	
Chrysene	J71.	µg/kgdrywt	2.0	330	EPA 8270	06/07/95	WF	
bis(2-Ethylhexyl)phthalate	J71.	µg/kgdrywt	2.0	330	EPA 8270	06/07/95	WF	
Di-n-octylphthalate	<660.	µg/kgdrywt	2.0	330	EPA 8270	06/07/95	WF	

* 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.

06/16/95

LJO/jcbajc/gbp(dw)/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-0786-6
Report Date: 06/16/95
PO No. : 802SLOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SD011	Solid	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Benzo(b)fluoranthene	J140.	µg/kgdrywt	2.0	330	EPA 8270	06/07/95	WF	
Benzo(k)fluoranthene	<660.	µg/kgdrywt	2.0	330	EPA 8270	06/07/95	WF	
Benzo(a)pyrene	J82.	µg/kgdrywt	2.0	330	EPA 8270	06/07/95	WF	
Indeno(1,2,3-cd)pyrene	J47.	µg/kgdrywt	2.0	330	EPA 8270	06/07/95	WF	
Dibenzo(a,h)anthracene	<660.	µg/kgdrywt	2.0	330	EPA 8270	06/07/95	WF	
Benzo(g,h,i)perylene	J51.	µg/kgdrywt	2.0	330	EPA 8270	06/07/95	WF	
2-Fluorophenol(Surr.)	79.	%	2.0		EPA 8270	06/07/95	WF	
Phenol-d5(Surr.)	78.	%	2.0		EPA 8270	06/07/95	WF	
Nitrobenzene-d5(Surr.)	80.	%	2.0		EPA 8270	06/07/95	WF	
2-Fluorobiphenyl(Surr.)	88.	%	2.0		EPA 8270	06/07/95	WF	
2,4,6-Tribromophenol(Surr.)	83.	%	2.0		EPA 8270	06/07/95	WF	
Terphenyl-d14(Surr.)	79.	%	2.0		EPA 8270	06/07/95	WF	
2-Chlorophenol-d4(Surr.)	83.	%	2.0		EPA 8270	06/07/95	WF	
1,2-Dichlorobenzene-d4(Surr.)	78.	%	2.0		EPA 8270	06/07/95	WF	

* 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.

06/16/95

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LE31S1

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: PACE, INC.
SDG No.: S9SD012
Matrix (soil/water): soil
Lab Sample ID: S9SD011
Sample wt/vol: 30 (g/ml) g
Lab File ID: Z7151
Level: (low/med) low
Date Received: 5/19/95
% Moisture: not dec. 50 N (Y/N) Decanted
Date Extracted: 5/31/95
Concentrated Extract Volume 500 (ul)
Date Analyzed: 6/7/95
Injection Volume 1.0 (ul)
Dilution Factor: 1.0
GPC Cleanup: Y (Y/N)
Soil Aliquot Volume: 0 (ul)
pH: N/A
CONCENTRATION UNITS (ug/L or ug/KG) ug/KG

Number of TIC's: 20

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 3404737	1-Pentene, 3,3-dimethyl-	4.87	3100	JN
2.	Unknown	5.65	1900	J
3. 123422	4-hydroxy-4-methyl-2-Pentanone	5.93	41000	JNAB
4.	C10 H14 isomer, MW=134	11.92	540	J
5.	Substituted Phenol	18.49	630	J
6.	Alkane	25.83	1300	J
7. 112856	Docosanoic acid	28.13	1300	JN
8.	Alkane	28.41	860	J
9.	Unknown	28.70	920	J
10.	Alkane	29.21	8600	J
11.	Alkane	30.73	6100	J
12.	Unknown	31.82	1400	J
13.	Alkane	32.27	3000	J
14. 57289073	Isoheptadecanol	32.35	2200	JN
15.	Unknown	32.47	850	J
16. 514078	D-Friedoolean-14-en-3-one	34.68	5000	JN
17.	Unknown	34.82	2100	J
18.	Unknown	35.47	1400	J
19.	Unknown	36.06	840	J
20.	Unknown	36.25	1600	J
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
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30.				

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0786-1
Report Date: 06/16/95
PO No. : 802SLOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SD012	Solid	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Volatile Organics by EPA 8260								1
Chloromethane	<6.	µg/kgdrywt	1.2	5.0	EPA 8260	05/19/95	DW	
Bromomethane	<6.	µg/kgdrywt	1.2	5.0	EPA 8260	05/19/95	DW	
Vinyl chloride	<2.4	µg/kgdrywt	1.2	2.0	EPA 8260	05/19/95	DW	
Chloroethane	<2.4	µg/kgdrywt	1.2	2.0	EPA 8260	05/19/95	DW	
Methylene chloride	B5	µg/kgdrywt	1.2	3.0	EPA 8260	05/19/95	DW	
Acetone	<6.	µg/kgdrywt	1.2	5.0	EPA 8260	05/19/95	DW	
Carbon disulfide	<6.	µg/kgdrywt	1.2	5.0	EPA 8260	05/19/95	DW	
1,1-Dichloroethene	<1.2	µg/kgdrywt	1.2	1.0	EPA 8260	05/19/95	DW	
1,1-Dichloroethane	<2.4	µg/kgdrywt	1.2	2.0	EPA 8260	05/19/95	DW	
Total 1,2-Dichloroethene	<2.4	µg/kgdrywt	1.2	2.0	EPA 8260	05/19/95	DW	
Chloroform	<6.	µg/kgdrywt	1.2	5.0	EPA 8260	05/19/95	DW	
1,2-Dichloroethane	<2.4	µg/kgdrywt	1.2	2.0	EPA 8260	05/19/95	DW	
2-Butanone	<6.	µg/kgdrywt	1.2	5.0	EPA 8260	05/19/95	DW	
1,1,1-Trichloroethane	<2.4	µg/kgdrywt	1.2	2.0	EPA 8260	05/19/95	DW	
Carbon tetrachloride	<6.	µg/kgdrywt	1.2	5.0	EPA 8260	05/19/95	DW	

* 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.

06/16/95

LJO/jcbeaw/gbp(dw)/sra
LE19VLS1

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0786-1
Report Date: 06/16/95
PO No. : 802SLOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SD012	Solid	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bromodichloromethane	<6.	µg/kgdrywt	1.2	5.0	EPA 8260	05/19/95	DW	
1,2-Dichloropropane	<3.	µg/kgdrywt	1.2	2.5	EPA 8260	05/19/95	DW	
cis-1,3-Dichloropropene	<6.	µg/kgdrywt	1.2	5.0	EPA 8260	05/19/95	DW	
Trichloroethene	<3.	µg/kgdrywt	1.2	2.5	EPA 8260	05/19/95	DW	
Dibromochloromethane	<6.	µg/kgdrywt	1.2	5.0	EPA 8260	05/19/95	DW	
1,1,2-Trichloroethane	<6.	µg/kgdrywt	1.2	5.0	EPA 8260	05/19/95	DW	
Benzene	<2.4	µg/kgdrywt	1.2	2.0	EPA 8260	05/19/95	DW	
trans-1,3-Dichloropropene	<6.	µg/kgdrywt	1.2	5.0	EPA 8260	05/19/95	DW	
Bromoform	<6.	µg/kgdrywt	1.2	5.0	EPA 8260	05/19/95	DW	
4-Methyl-2-pentanone	<3.6	µg/kgdrywt	1.2	3.0	EPA 8260	05/19/95	DW	
2-Hexanone	<4.8	µg/kgdrywt	1.2	4.0	EPA 8260	05/19/95	DW	
Tetrachloroethene	<2.4	µg/kgdrywt	1.2	2.0	EPA 8260	05/19/95	DW	
1,1,2,2-Tetrachloroethane	<6.	µg/kgdrywt	1.2	5.0	EPA 8260	05/19/95	DW	
Toluene	<2.4	µg/kgdrywt	1.2	2.0	EPA 8260	05/19/95	DW	
Chlorobenzene	<6.	µg/kgdrywt	1.2	5.0	EPA 8260	05/19/95	DW	
Ethylbenzene	<2.4	µg/kgdrywt	1.2	2.0	EPA 8260	05/19/95	DW	

* 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.

06/16/95

LJO/jcbeaw/gbp(dw)/sra
LE19VLS1

ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0786-1
Report Date: 06/16/95
PO No. : 802SLOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SD012	Solid	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Styrene	<2.4	µg/kgdrywt	1.2	2.0	EPA 8260	05/19/95	DW	
Total Xylenes	<2.4	µg/kgdrywt	1.2	2.0	EPA 8260	05/19/95	DW	
Dibromofluoromethane (Surr.)	108.	%	1.2		EPA 8260	05/19/95	DW	
Toluene-d8 (Surr.)	88.	%	1.2		EPA 8260	05/19/95	DW	
p-Bromofluorobenzene (Surr.)	80.	%	1.2		EPA 8260	05/19/95	DW	

* 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.

06/16/95

LJO/jcbeaw/gbp(dw)/sra
LE15VLS1

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.:	S9SD012
Matrix (soil/water)	Soil	Lab Sample ID:	S9SD012
Sample wt/vol:	5 (g/ml) g	Lab File ID:	Y9046
Level: (low/med)	low	Date Received:	5/19/95
% Moisture: not dec.	20	Date Analyzed:	5/19/95
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	2.17	66	JNB
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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-0786-1
Report Date: 06/16/95
PO No. : 802SLOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SD012	Solid	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
TCL Semivolatile Organics by USEPA 8270								1,2,3
Phenol	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/06/95	AC	
bis(2-Chloroethyl)ether	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/06/95	AC	
2-Chlorophenol	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/06/95	AC	
1,3-Dichlorobenzene	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/06/95	AC	
1,4-Dichlorobenzene	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/06/95	AC	
1,2-Dichlorobenzene	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/06/95	AC	
2-Methylphenol	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/06/95	AC	
bis(2-Chloroisopropyl) ether	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/06/95	AC	
4-Methylphenol	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/06/95	AC	
n-Nitroso-dipropylamine	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/06/95	AC	
Hexachloroethane	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/06/95	AC	
Nitrobenzene	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/06/95	AC	

* 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) Sample Preparation on 05/31/95 by LAG using EPA 3550
(2) "J" flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.
(3) "B" flag denotes detection of this analyte in the laboratory method blank analyzed concurrently with the sample.

06/16/95

LJO/jcbajc/gbp(dw)/sra
LE31S1

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0786-1
Report Date: 06/16/95
PO No. : 802SLOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SD012	Solid	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Isophorone	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/06/95	AC	
2-Nitrophenol	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/06/95	AC	
2,4-Dimethylphenol	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/06/95	AC	
bis(2-Chloroethoxy)methane	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/06/95	AC	
2,4-Dichlorophenol	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/06/95	AC	
1,2,4-Trichlorobenzene	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/06/95	AC	
Naphthalene	J83.	µg/kgdrywt	1.2	330	EPA 8270	06/06/95	AC	
4-Chloroaniline	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/06/95	AC	
Hexachlorobutadiene	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/06/95	AC	
4-Chloro-3-methylphenol	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/06/95	AC	
2-Methylnaphthalene	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/06/95	AC	
Hexachlorocyclopentadiene	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/06/95	AC	
2,4,6-Trichlorophenol	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/06/95	AC	
2,4,5-Trichlorophenol	<980.	µg/kgdrywt	1.2	820	EPA 8270	06/06/95	AC	

* 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.

06/16/95

LJO/jcbajc/gbp(dw)/sra
LE31S1

ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0786-1
Report Date: 06/16/95
PO No. : 802SLOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SD012	Solid	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
2-Chloronaphthalene	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/06/95	AC	
2-Nitroaniline	<980.	µg/kgdrywt	1.2	820	EPA 8270	06/06/95	AC	
Dimethylphthalate	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/06/95	AC	
Acenaphthylene	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/06/95	AC	
2,6-Dinitrotoluene	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/06/95	AC	
3-Nitroaniline	<980.	µg/kgdrywt	1.2	820	EPA 8270	06/06/95	AC	
Acenaphthene	J300.	µg/kgdrywt	1.2	330	EPA 8270	06/06/95	AC	
2,4-Dinitrophenol	<980.	µg/kgdrywt	1.2	820	EPA 8270	06/06/95	AC	
4-Nitrophenol	<980.	µg/kgdrywt	1.2	820	EPA 8270	06/06/95	AC	
Dibenzofuran	J120.	µg/kgdrywt	1.2	330	EPA 8270	06/06/95	AC	
2,4-Dinitrotoluene	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/06/95	AC	
Diethylphthalate	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/06/95	AC	
4-Chlorophenyl phenyl ether	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/06/95	AC	
Fluorene	J260.	µg/kgdrywt	1.2	330	EPA 8270	06/06/95	AC	

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06/16/95

LJO/jcbajc/gbp(dw)/sra
LE31S1

ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0786-1
Report Date: 06/16/95
PO No. : 802SLOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SD012	Solid	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
4-Nitroaniline	<980.	µg/kgdrywt	1.2	820	EPA 8270	06/06/95	AC	
4,6-Dinitro-2-methylphenol	<980.	µg/kgdrywt	1.2	820	EPA 8270	06/06/95	AC	
n-Nitrosodiphenylamine	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/06/95	AC	
4-Bromophenyl phenyl ether	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/06/95	AC	
Hexachlorobenzene	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/06/95	AC	
Pentachlorophenol	<980.	µg/kgdrywt	1.2	820	EPA 8270	06/06/95	AC	
Phenanthrene	2400.	µg/kgdrywt	1.2	330	EPA 8270	06/06/95	AC	
Anthracene	440.	µg/kgdrywt	1.2	330	EPA 8270	06/06/95	AC	
Carbazole	J300.	µg/kgdrywt	1.2	330	EPA 8270	06/06/95	AC	
Di-n-butylphthalate	JB44	µg/kgdrywt	1.2	330	EPA 8270	06/06/95	AC	
Fluoranthene	2800.	µg/kgdrywt	1.2	330	EPA 8270	06/06/95	AC	
Pyrene	2400.	µg/kgdrywt	1.2	330	EPA 8270	06/06/95	AC	
Butyl benzylphthalate	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/06/95	AC	
3,3'-Dichlorobenzidine	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/06/95	AC	

* 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.

06/16/95

LJO/jcbajc/gbp(dw)/sra
LE31S1

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0786-1
Report Date: 06/16/95
PO No. : 802SLOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SD012	Solid	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Benzo(a)anthracene	1500.	µg/kgdrywt	1.2	330	EPA 8270	06/06/95	AC	
Chrysene	1400.	µg/kgdrywt	1.2	330	EPA 8270	06/06/95	AC	
bis(2-Ethylhexyl)phthalate	J340.	µg/kgdrywt	1.2	330	EPA 8270	06/06/95	AC	
Di-n-octylphthalate	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/06/95	AC	
Benzo(b)fluoranthene	2800.	µg/kgdrywt	1.2	330	EPA 8270	06/06/95	AC	
Benzo(k)fluoranthene	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/06/95	AC	
Benzo(a)pyrene	1400.	µg/kgdrywt	1.2	330	EPA 8270	06/06/95	AC	
Indeno(1,2,3-cd)pyrene	770.	µg/kgdrywt	1.2	330	EPA 8270	06/06/95	AC	
Dibenzo(a,h)anthracene	J250.	µg/kgdrywt	1.2	330	EPA 8270	06/06/95	AC	
Benzo(g,h,i)perylene	870.	µg/kgdrywt	1.2	330	EPA 8270	06/06/95	AC	
2-Fluorophenol(Surr.)	71.	%	1.2		EPA 8270	06/06/95	AC	
Phenol-d5(Surr.)	68.	%	1.2		EPA 8270	06/06/95	AC	
Nitrobenzene-d5(Surr.)	78.	%	1.2		EPA 8270	06/06/95	AC	
2-Fluorobiphenyl(Surr.)	79.	%	1.2		EPA 8270	06/06/95	AC	

* 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.

06/16/95

LJO/jcbajc/ghp(dw)/sra
LE31S1

ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0786-1
Report Date: 06/16/95
PO No. : 802SLOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SD012	Solid	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
2,4,6-Tribromophenol (Surr.)	70.	%	1.2		EPA 8270	06/06/95	AC	
Terphenyl-d14 (Surr.)	74.	%	1.2		EPA 8270	06/06/95	AC	
2-Chlorophenol-d4 (Surr.)	73.	%	1.2		EPA 8270	06/06/95	AC	
1,2-Dichlorobenzene-d4 (Surr.)	70.	%	1.2		EPA 8270	06/06/95	AC	

* 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.

06/16/95

LJO/jcbajc/gbp(dw)/sra
LE31S1

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: PACE, INC.
SDG No.: S9SD012
Matrix (soil/water): soil
Lab Sample ID: S9SD012
Sample wt/vol: 30 (g/ml) g
Lab File ID: Z7144
Level: (low/med) low
Date Received: 5/19/95
% Moisture: not dec. 20 N (Y/N) Decanted
Date Extracted: 5/31/95
Concentrated Extract Volume 500 (ul)
Date Analyzed: 6/6/95
Injection Volume 1.0 (ul)
Dilution Factor: 1.0
GPC Cleanup: Y (Y/N)
Soil Aliquot Volume: 0 (ul)
pH: N/A
CONCENTRATION UNITS (ug/L or ug/KG) ug/KG

Number of TIC's: 20

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	4.09	860	J
2.	Unknown	4.92	1000	J
3.	Unknown	5.76	610	J
4. 123422	4-hydroxy-4-methyl-2-Pentanone	6.00	26000	JNAB
5. 594616	Propanoic acid. 2-hydroxy-2-methyl-	6.10	240	JN
6.	C15 H12 isomer, MW=192	22.33	220	J
7. 203645	4H-Cyclopenta[def]phenanthrene	22.40	320	JN
8. 84651	9,10-Anthracenedione	22.96	300	JN
9.	C17 H12 isomer, MW=216	25.40	280	J
10.	C17 H12 isomer, MW=216	25.58	220	J
11.	Unknown	28.86	350	J
12.	Alkane	29.23	390	J
13.	Alkane	29.64	930	J
14. 192972	Benzo[e]pyrene	30.81	470	JN
15. 514078	D-Friedoolean-14-en-3-one	34.71	1400	JN
16.	Unknown	35.29	870	J
17.	Unknown	35.51	3600	J
18.	Unknown	35.89	790	J
19.	Unknown	36.29	1900	J
20.	Unknown	36.97	390	J
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0786-8
Report Date: 06/16/95
PO No. : 802SLOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SD915	Solid	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Volatile Organics by EPA 8260								1
Chloromethane	<6.	µg/kgdrywt	1.2	5.0	EPA 8260	05/26/95	DW	
Bromomethane	<6.	µg/kgdrywt	1.2	5.0	EPA 8260	05/26/95	DW	
Vinyl chloride	<2.4	µg/kgdrywt	1.2	2.0	EPA 8260	05/26/95	DW	
Chloroethane	<2.4	µg/kgdrywt	1.2	2.0	EPA 8260	05/26/95	DW	
Methylene chloride	B10	µg/kgdrywt	1.2	3.0	EPA 8260	05/26/95	DW	
Acetone	<6.	µg/kgdrywt	1.2	5.0	EPA 8260	05/26/95	DW	
Carbon disulfide	<6.	µg/kgdrywt	1.2	5.0	EPA 8260	05/26/95	DW	
1,1-Dichloroethene	<1.2	µg/kgdrywt	1.2	1.0	EPA 8260	05/26/95	DW	
1,1-Dichloroethane	<2.4	µg/kgdrywt	1.2	2.0	EPA 8260	05/26/95	DW	
Total 1,2-Dichloroethene	<2.4	µg/kgdrywt	1.2	2.0	EPA 8260	05/26/95	DW	
Chloroform	<6.	µg/kgdrywt	1.2	5.0	EPA 8260	05/26/95	DW	
1,2-Dichloroethane	<2.4	µg/kgdrywt	1.2	2.0	EPA 8260	05/26/95	DW	
2-Butanone	<6.	µg/kgdrywt	1.2	5.0	EPA 8260	05/26/95	DW	
1,1,1-Trichloroethane	<2.4	µg/kgdrywt	1.2	2.0	EPA 8260	05/26/95	DW	
Carbon tetrachloride	<6.	µg/kgdrywt	1.2	5.0	EPA 8260	05/26/95	DW	

* 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.

06/16/95

LJO/jcbeaw/gbp(dw)/sra
LE26VLS1

ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0786-8
Report Date: 06/16/95
PO No. : 802SLOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SD915	Solid	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bromodichloromethane	<6.	µg/kgdrywt	1.2	5.0	EPA 8260	05/26/95	DW	
1,2-Dichloropropane	<3.	µg/kgdrywt	1.2	2.5	EPA 8260	05/26/95	DW	
cis-1,3-Dichloropropene	<6.	µg/kgdrywt	1.2	5.0	EPA 8260	05/26/95	DW	
Trichloroethene	<3.	µg/kgdrywt	1.2	2.5	EPA 8260	05/26/95	DW	
Dibromochloromethane	<6.	µg/kgdrywt	1.2	5.0	EPA 8260	05/26/95	DW	
1,1,2-Trichloroethane	<6.	µg/kgdrywt	1.2	5.0	EPA 8260	05/26/95	DW	
Benzene	<2.4	µg/kgdrywt	1.2	2.0	EPA 8260	05/26/95	DW	
trans-1,3-Dichloropropene	<6.	µg/kgdrywt	1.2	5.0	EPA 8260	05/26/95	DW	
Bromoform	<6.	µg/kgdrywt	1.2	5.0	EPA 8260	05/26/95	DW	
4-Methyl-2-pentanone	<3.6	µg/kgdrywt	1.2	3.0	EPA 8260	05/26/95	DW	
2-Hexanone	<4.8	µg/kgdrywt	1.2	4.0	EPA 8260	05/26/95	DW	
Tetrachloroethene	<2.4	µg/kgdrywt	1.2	2.0	EPA 8260	05/26/95	DW	
1,1,2,2-Tetrachloroethane	<6.	µg/kgdrywt	1.2	5.0	EPA 8260	05/26/95	DW	
Toluene	<2.4	µg/kgdrywt	1.2	2.0	EPA 8260	05/26/95	DW	
Chlorobenzene	<6.	µg/kgdrywt	1.2	5.0	EPA 8260	05/26/95	DW	
Ethylbenzene	<2.4	µg/kgdrywt	1.2	2.0	EPA 8260	05/26/95	DW	

* 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.

06/16/95

LJO/jcbeaw/gbp(dw)/sra
LE26VLS1

ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0786-8
Report Date: 06/16/95
PO No. : 802SLQA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SD915	Solid	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Styrene	<2.4	µg/kgdrywt	1.2	2.0	EPA 8260	05/26/95	DW	
Total Xylenes	<2.4	µg/kgdrywt	1.2	2.0	EPA 8260	05/26/95	DW	
Dibromofluoromethane (Surr.)	102.	%	1.2		EPA 8260	05/26/95	DW	
Toluene-d8 (Surr.)	94.	%	1.2		EPA 8260	05/26/95	DW	
p-Bromofluorobenzene (Surr.)	94.	%	1.2		EPA 8260	05/26/95	DW	

* 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.

06/16/95

LJO/jcbeaw/gbp(dw)/sra
LE26VLS1

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.:	S9SD012
Matrix (soil/water)	Soil	Lab Sample ID:	S9SD915
Sample wt/vol:	5 (g/ml) g	Lab File ID:	Y9206
Level: (low/med)	low	Date Received:	5/19/95
% Moisture: not dec.	16	Date Analyzed:	5/26/95
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	2.15	42	JNB
2.				
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pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0786-8
Report Date: 06/16/95
PO No. : 802SLOA
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
S9SD915	Solid	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
TCL Semivolatile Organics by USEPA 8270								1,2,3
Phenol	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/07/95	WF	
bis(2-Chloroethyl)ether	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/07/95	WF	
2-Chlorophenol	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/07/95	WF	
1,3-Dichlorobenzene	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/07/95	WF	
1,4-Dichlorobenzene	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/07/95	WF	
1,2-Dichlorobenzene	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/07/95	WF	
2-Methylphenol	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/07/95	WF	
bis(2-Chloroisopropyl) ether	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/07/95	WF	
4-Methylphenol	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/07/95	WF	
n-Nitroso-dipropylamine	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/07/95	WF	
Hexachloroethane	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/07/95	WF	
Nitrobenzene	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/07/95	WF	

* QL (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) Sample Preparation on 05/31/95 by LAG using EPA 3550
(2) "J" flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.
(3) "B" flag denotes detection of this analyte in the laboratory method blank analyzed concurrently with the sample.

06/16/95

LJO/jcbajc/gbp(dw)/sra
LE31S1

ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0786-8
Report Date: 06/16/95
PO No. : 802SLOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SD915	Solid	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Isophorone	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/07/95	WF	
2-Nitrophenol	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/07/95	WF	
2,4-Dimethylphenol	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/07/95	WF	
bis(2-Chloroethoxy)methane	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/07/95	WF	
2,4-Dichlorophenol	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/07/95	WF	
1,2,4-Trichlorobenzene	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/07/95	WF	
Naphthalene	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/07/95	WF	
4-Chloroaniline	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/07/95	WF	
Hexachlorobutadiene	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/07/95	WF	
4-Chloro-3-methylphenol	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/07/95	WF	
2-Methylnaphthalene	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/07/95	WF	
Hexachlorocyclopentadiene	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/07/95	WF	
2,4,6-Trichlorophenol	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/07/95	WF	
2,4,5-Trichlorophenol	<980.	µg/kgdrywt	1.2	820	EPA 8270	06/07/95	WF	

* 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.

06/16/95

LJO/jcbajc/gbp(dw)/sra
LE31S1

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0786-8
Report Date: 06/16/95
PO No. : 802SLOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SD915	Solid	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
2-Chloronaphthalene	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/07/95	WF	
2-Nitroaniline	<980.	µg/kgdrywt	1.2	820	EPA 8270	06/07/95	WF	
Dimethylphthalate	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/07/95	WF	
Acenaphthylene	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/07/95	WF	
2,6-Dinitrotoluene	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/07/95	WF	
3-Nitroaniline	<980.	µg/kgdrywt	1.2	820	EPA 8270	06/07/95	WF	
Acenaphthene	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/07/95	WF	
2,4-Dinitrophenol	<980.	µg/kgdrywt	1.2	820	EPA 8270	06/07/95	WF	
4-Nitrophenol	<980.	µg/kgdrywt	1.2	820	EPA 8270	06/07/95	WF	
Dibenzofuran	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/07/95	WF	
2,4-Dinitrotoluene	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/07/95	WF	
Diethylphthalate	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/07/95	WF	
4-Chlorophenyl phenyl ether	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/07/95	WF	
Fluorene	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/07/95	WF	

* 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.

06/16/95

LJO/jcbajc/gbp(dw)/sra
LE31S1

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0786-8
Report Date: 06/16/95
PO No. : 802SLOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SD915	Solid	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
4-Nitroaniline	<980.	µg/kgdrywt	1.2	820	EPA 8270	06/07/95	WF	
4,6-Dinitro-2-methylphenol	<980.	µg/kgdrywt	1.2	820	EPA 8270	06/07/95	WF	
n-Nitrosodiphenylamine	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/07/95	WF	
4-Bromophenyl phenyl ether	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/07/95	WF	
Hexachlorobenzene	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/07/95	WF	
Pentachlorophenol	<980.	µg/kgdrywt	1.2	820	EPA 8270	06/07/95	WF	
Phenanthrene	J77.	µg/kgdrywt	1.2	330	EPA 8270	06/07/95	WF	
Anthracene	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/07/95	WF	
Carbazole	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/07/95	WF	
Di-n-butylphthalate	JB27	µg/kgdrywt	1.2	330	EPA 8270	06/07/95	WF	
Fluoranthene	800.	µg/kgdrywt	1.2	330	EPA 8270	06/07/95	WF	
Pyrene	840.	µg/kgdrywt	1.2	330	EPA 8270	06/07/95	WF	
Butyl benzylphthalate	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/07/95	WF	
3,3'-Dichlorobenzidine	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/07/95	WF	

* 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.

06/16/95

LJO/jcbajc/gbp(dw)/sra
LE31S1

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0786-8
Report Date: 06/16/95
PO No. : 802SLOA
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
S9SD915	Solid	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Benzo(a)anthracene	600.	µg/kgdrywt	1.2	330	EPA 8270	06/07/95	WF	
Chrysene	490.	µg/kgdrywt	1.2	330	EPA 8270	06/07/95	WF	
bis(2-Ethylhexyl)phthalate	J56.	µg/kgdrywt	1.2	330	EPA 8270	06/07/95	WF	
Di-n-octylphthalate	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/07/95	WF	
Benzo(b)fluoranthene	950.	µg/kgdrywt	1.2	330	EPA 8270	06/07/95	WF	
Benzo(k)fluoranthene	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/07/95	WF	
Benzo(a)pyrene	460.	µg/kgdrywt	1.2	330	EPA 8270	06/07/95	WF	
Indeno(1,2,3-cd)pyrene	J230.	µg/kgdrywt	1.2	330	EPA 8270	06/07/95	WF	
Dibenzo(a,h)anthracene	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/07/95	WF	
Benzo(g,h,i)perylene	J250.	µg/kgdrywt	1.2	330	EPA 8270	06/07/95	WF	
2-Fluorophenol(Surr.)	66.	%	1.2		EPA 8270	06/07/95	WF	
Phenol-d5(Surr.)	66.	%	1.2		EPA 8270	06/07/95	WF	
Nitrobenzene-d5(Surr.)	77.	%	1.2		EPA 8270	06/07/95	WF	
2-Fluorobiphenyl(Surr.)	84.	%	1.2		EPA 8270	06/07/95	WF	

* 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.

06/16/95

LJO/jcbajc/gbp(dw)/sra
LE31S1

[illegible] Gram. Road #5, P.O. Box 720
Westbrook, ME 04098
TEL: 207-874-2400
FAX: [illegible]

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-0786-8
Report Date: 06/16/95
PO No. : 802SLOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SD915	Solid	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
2,4,6-Tribromophenol (Surr.)	73.	%	1.2		EPA 8270	06/07/95	WF	
Terphenyl-d14 (Surr.)	80.	%	1.2		EPA 8270	06/07/95	WF	
2-Chlorophenol-d4 (Surr.)	73.	%	1.2		EPA 8270	06/07/95	WF	
1,2-Dichlorobenzene-d4 (Surr.)	68.	%	1.2		EPA 8270	06/07/95	WF	

* 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.

06/16/95

LJO/jcbajc/gbp(dw)/sra
LE31S1

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: PACE, INC.

SDG No.: S9SD012

Matrix (soil/water): soil

Lab Sample ID: S9SD915

Sample wt/vol: 30 (g/ml) g

Lab File ID: Z7153

Level: (low/med) low

Date Received: 5/19/95

% Moisture: not dec. 17 N (Y/N) Decanted

Date Extracted: 5/31/95

Concentrated Extract Volume 500 (ul)

Date Analyzed: 6/7/95

Injection Volume 1.0 (ul)

Dilution Factor: 1.0

GPC Cleanup: Y (Y/N)

Soil Aliquot Volume: 0 (ul)

pH: N/A

CONCENTRATION UNITS
(ug/L or ug/KG) ug/KG

Number of TIC's: 8

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	4.86	890	J
2.	Unknown	5.51	200	J
3.	Unknown	5.64	410	J
4. 123422	4-hydroxy-4-methyl-2-Pentanone	5.91	23000	JNAB
5.	Unknown, phthalate ester	28.83	380	J
6.	Alkane	29.62	330	J
7.	Unknown, phthalate ester	30.43	470	J
8. 205823	Benzo[j]fluoranthene	30.80	260	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-0786-3
Report Date: 06/16/95
PO No. : 802SLOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SD916	Solid	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Volatile Organics by EPA 8260								1,2,3,4
Chloromethane	<6.5	µg/kgdrywt	1.3	5.0	EPA 8260	05/19/95	DW	
Bromomethane	<6.5	µg/kgdrywt	1.3	5.0	EPA 8260	05/19/95	DW	
Vinyl chloride	<2.6	µg/kgdrywt	1.3	2.0	EPA 8260	05/19/95	DW	
Chloroethane	<2.6	µg/kgdrywt	1.3	2.0	EPA 8260	05/19/95	DW	
Methylene chloride	B5	µg/kgdrywt	1.3	3.0	EPA 8260	05/19/95	DW	
Acetone	<6.5	µg/kgdrywt	1.3	5.0	EPA 8260	05/19/95	DW	
Carbon disulfide	<6.5	µg/kgdrywt	1.3	5.0	EPA 8260	05/19/95	DW	
1,1-Dichloroethene	<1.3	µg/kgdrywt	1.3	1.0	EPA 8260	05/19/95	DW	
1,1-Dichloroethane	<2.6	µg/kgdrywt	1.3	2.0	EPA 8260	05/19/95	DW	
Total 1,2-Dichloroethene	<2.6	µg/kgdrywt	1.3	2.0	EPA 8260	05/19/95	DW	
Chloroform	<6.5	µg/kgdrywt	1.3	5.0	EPA 8260	05/19/95	DW	
1,2-Dichloroethane	<2.6	µg/kgdrywt	1.3	2.0	EPA 8260	05/19/95	DW	

* 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) "$" flag denotes surrogate compound recovery is out of criteria. Re-extraction or re-analysis confirmed matrix interference.

(4) Internal standard area(s) are out of criteria. Reanalysis confirmed matrix interference.

06/16/95

LJO/jcbeaw/gbp(dw)/sra
LE19VLS1

ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0786-3
Report Date: 06/16/95
PO No. : 802SLOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SD916	Solid	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
2-Butanone	<6.5	µg/kgdrywt	1.3	5.0	EPA 8260	05/19/95	DW	
1,1,1-Trichloroethane	<2.6	µg/kgdrywt	1.3	2.0	EPA 8260	05/19/95	DW	
Carbon tetrachloride	<6.5	µg/kgdrywt	1.3	5.0	EPA 8260	05/19/95	DW	
Bromodichloromethane	<6.5	µg/kgdrywt	1.3	5.0	EPA 8260	05/19/95	DW	
1,2-Dichloropropane	<3.3	µg/kgdrywt	1.3	2.5	EPA 8260	05/19/95	DW	
cis-1,3-Dichloropropene	<6.5	µg/kgdrywt	1.3	5.0	EPA 8260	05/19/95	DW	
Trichloroethene	<3.3	µg/kgdrywt	1.3	2.5	EPA 8260	05/19/95	DW	
Dibromochloromethane	<6.5	µg/kgdrywt	1.3	5.0	EPA 8260	05/19/95	DW	
1,1,2-Trichloroethane	<6.5	µg/kgdrywt	1.3	5.0	EPA 8260	05/19/95	DW	
Benzene	<2.6	µg/kgdrywt	1.3	2.0	EPA 8260	05/19/95	DW	
trans-1,3-Dichloropropene	<6.5	µg/kgdrywt	1.3	5.0	EPA 8260	05/19/95	DW	
Bromoform	<6.5	µg/kgdrywt	1.3	5.0	EPA 8260	05/19/95	DW	
4-Methyl-2-pentanone	<3.9	µg/kgdrywt	1.3	3.0	EPA 8260	05/19/95	DW	

* 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.

06/16/95

LJO/jcbeaw/gbp(dw)/sra
LE19VLS1

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0786-3
Report Date: 06/16/95
PO No. : 802SLCA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SD916	Solid	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
2-Hexanone	<5.2	µg/kgdrywt	1.3	4.0	EPA 8260	05/19/95	DW	
Tetrachloroethene	J1.	µg/kgdrywt	1.3	2.0	EPA 8260	05/19/95	DW	
1,1,2,2-Tetrachloroethane	J2.	µg/kgdrywt	1.3	5.0	EPA 8260	05/19/95	DW	
Toluene	<2.6	µg/kgdrywt	1.3	2.0	EPA 8260	05/19/95	DW	
Chlorobenzene	<6.5	µg/kgdrywt	1.3	5.0	EPA 8260	05/19/95	DW	
Ethylbenzene	<2.6	µg/kgdrywt	1.3	2.0	EPA 8260	05/19/95	DW	
Styrene	<2.6	µg/kgdrywt	1.3	2.0	EPA 8260	05/19/95	DW	
Total Xylenes	J1.	µg/kgdrywt	1.3	2.0	EPA 8260	05/19/95	DW	
Dibromofluoromethane (Surr.)	105.	%	1.3		EPA 8260	05/19/95	DW	
Toluene-d8 (Surr.)	86.	%	1.3		EPA 8260	05/19/95	DW	
p-Bromofluorobenzene (Surr.)	$68	%	1.3		EPA 8260	05/19/95	DW	

* 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.

06/16/95

LJO/jcbeaw/gbp(dw)/sra
LE19VLS1

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.: S9SD012	
Matrix (soil/water)	Soil	Lab Sample ID:	S9SD916
Sample wt/vol:	5 (g/ml) g	Lab File ID:	Y9050
Level: (low/med)	low	Date Received:	5/19/95
% Moisture: not dec.	24	Date Analyzed:	5/19/95
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	2.17	58	JNB
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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-0786-3
Report Date: 06/16/95
PO No. : 802SLOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SD916	Solid	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Volatile Organics by EPA 8260								
Reanalysis								1,2,3
Chloromethane	<6.5	µg/kgdrywt	1.3	5.0	EPA 8260	05/26/95	DW	
Bromomethane	<6.5	µg/kgdrywt	1.3	5.0	EPA 8260	05/26/95	DW	
Vinyl chloride	<2.6	µg/kgdrywt	1.3	2.0	EPA 8260	05/26/95	DW	
Chloroethane	<2.6	µg/kgdrywt	1.3	2.0	EPA 8260	05/26/95	DW	
Methylene chloride	B15	µg/kgdrywt	1.3	3.0	EPA 8260	05/26/95	DW	
Acetone	<6.5	µg/kgdrywt	1.3	5.0	EPA 8260	05/26/95	DW	
Carbon disulfide	<6.5	µg/kgdrywt	1.3	5.0	EPA 8260	05/26/95	DW	
1,1-Dichloroethene	<1.3	µg/kgdrywt	1.3	1.0	EPA 8260	05/26/95	DW	
1,1-Dichloroethane	<2.6	µg/kgdrywt	1.3	2.0	EPA 8260	05/26/95	DW	
Total 1,2-Dichloroethene	<2.6	µg/kgdrywt	1.3	2.0	EPA 8260	05/26/95	DW	
Chloroform	<6.5	µg/kgdrywt	1.3	5.0	EPA 8260	05/26/95	DW	
1,2-Dichloroethane	<2.6	µg/kgdrywt	1.3	2.0	EPA 8260	05/26/95	DW	

* 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) "$" flag denotes surrogate compound recovery is out of criteria. Re-extraction or re-analysis confirmed matrix interference.

(3) Internal standard area(s) are out of criteria. Reanalysis confirmed matrix interference.

06/16/95

LJO/jcbeaw/gbp(dw)/sra
LE26VLS1

ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0786-3
Report Date: 06/16/95
PO No. : 802SLOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SD916	Solid	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
2-Butanone	<6.5	µg/kgdrywt	1.3	5.0	EPA 8260	05/26/95	DW	
1,1,1-Trichloroethane	<2.6	µg/kgdrywt	1.3	2.0	EPA 8260	05/26/95	DW	
Carbon tetrachloride	<6.5	µg/kgdrywt	1.3	5.0	EPA 8260	05/26/95	DW	
Bromodichloromethane	<6.5	µg/kgdrywt	1.3	5.0	EPA 8260	05/26/95	DW	
1,2-Dichloropropane	<3.3	µg/kgdrywt	1.3	2.5	EPA 8260	05/26/95	DW	
cis-1,3-Dichloropropene	<6.5	µg/kgdrywt	1.3	5.0	EPA 8260	05/26/95	DW	
Trichloroethene	<3.3	µg/kgdrywt	1.3	2.5	EPA 8260	05/26/95	DW	
Dibromochloromethane	<6.5	µg/kgdrywt	1.3	5.0	EPA 8260	05/26/95	DW	
1,1,2-Trichloroethane	<6.5	µg/kgdrywt	1.3	5.0	EPA 8260	05/26/95	DW	
Benzene	<2.6	µg/kgdrywt	1.3	2.0	EPA 8260	05/26/95	DW	
trans-1,3-Dichloropropene	<6.5	µg/kgdrywt	1.3	5.0	EPA 8260	05/26/95	DW	
Bromoform	<6.5	µg/kgdrywt	1.3	5.0	EPA 8260	05/26/95	DW	
4-Methyl-2-pentanone	<3.9	µg/kgdrywt	1.3	3.0	EPA 8260	05/26/95	DW	
2-Hexanone	<5.2	µg/kgdrywt	1.3	4.0	EPA 8260	05/26/95	DW	

* 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.

06/16/95

LJO/jcbeaw/cbp(dw)/sra
LE26VLS1

ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0786-3
Report Date: 06/16/95
PO No. : 802SLOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SD916	Solid	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Tetrachloroethene	<2.6	µg/kgdrywt	1.3	2.0	EPA 8260	05/26/95	DW	
1,1,2,2-Tetrachloroethane	<6.5	µg/kgdrywt	1.3	5.0	EPA 8260	05/26/95	DW	
Toluene	<2.6	µg/kgdrywt	1.3	2.0	EPA 8260	05/26/95	DW	
Chlorobenzene	<6.5	µg/kgdrywt	1.3	5.0	EPA 8260	05/26/95	DW	
Ethylbenzene	<2.6	µg/kgdrywt	1.3	2.0	EPA 8260	05/26/95	DW	
Styrene	<2.6	µg/kgdrywt	1.3	2.0	EPA 8260	05/26/95	DW	
Total Xylenes	<2.6	µg/kgdrywt	1.3	2.0	EPA 8260	05/26/95	DW	
Dibromofluoromethane (Surr.)	105.	%	1.3		EPA 8260	05/26/95	DW	
Toluene-d8 (Surr.)	85.	%	1.3		EPA 8260	05/26/95	DW	
p-Bromofluorobenzene (Surr.)	$66	%	1.3		EPA 8260	05/26/95	DW	

* 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.

06/16/95

LJO/jcbeaw/gbp(dw)/sra
LE26VLS1

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: PACE, INC.
SDG No.: S9SD012
Matrix (soil/water): Soil
Lab Sample ID: S9SD916RE
Sample wt/vol: 5 (g/ml) g
Lab File ID: Y9202
Level: (low/med) low
Date Received: 5/19/95
% Moisture: not dec. 24
Date Analyzed: 5/25/95
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	2.15	57	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-0786-7
Report Date: 06/16/95
PO No. : 802SLQA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
ESSD919	Solid	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Volatile Organics by EPA 8260								1,2,3
Chloromethane	<6.	µg/kgdrywt	1.2	5.0	EPA 8260	05/19/95	DW	
Bromomethane	<6.	µg/kgdrywt	1.2	5.0	EPA 8260	05/19/95	DW	
Vinyl chloride	<2.4	µg/kgdrywt	1.2	2.0	EPA 8260	05/19/95	DW	
Chloroethane	<2.4	µg/kgdrywt	1.2	2.0	EPA 8260	05/19/95	DW	
Methylene chloride	JB3	µg/kgdrywt	1.2	3.0	EPA 8260	05/19/95	DW	
Acetone	<6.	µg/kgdrywt	1.2	5.0	EPA 8260	05/19/95	DW	
Carbon disulfide	<6.	µg/kgdrywt	1.2	5.0	EPA 8260	05/19/95	DW	
1,1-Dichloroethene	<1.2	µg/kgdrywt	1.2	1.0	EPA 8260	05/19/95	DW	
1,1-Dichloroethane	<2.4	µg/kgdrywt	1.2	2.0	EPA 8260	05/19/95	DW	
Total 1,2-Dichloroethene	<2.4	µg/kgdrywt	1.2	2.0	EPA 8260	05/19/95	DW	
Chloroform	<6.	µg/kgdrywt	1.2	5.0	EPA 8260	05/19/95	DW	
1,2-Dichloroethane	<2.4	µg/kgdrywt	1.2	2.0	EPA 8260	05/19/95	DW	
2-Butanone	<6.	µg/kgdrywt	1.2	5.0	EPA 8260	05/19/95	DW	

* 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) "$" flag denotes surrogate compound recovery is out of criteria. Re-extraction or re-analysis confirmed matrix interference.

06/16/95

LLO/jcbeaw/gbp(dw)/sra
LEL9VLS1

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0786-7
Report Date: 06/16/95
PO No. : 802SLOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SD919	Solid	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
1,1,1-Trichloroethane	<2.4	µg/kgdrywt	1.2	2.0	EPA 8260	05/19/95	DW	
Carbon tetrachloride	<6.	µg/kgdrywt	1.2	5.0	EPA 8260	05/19/95	DW	
Bromodichloromethane	<6.	µg/kgdrywt	1.2	5.0	EPA 8260	05/19/95	DW	
1,2-Dichloropropane	<3.	µg/kgdrywt	1.2	2.5	EPA 8260	05/19/95	DW	
cis-1,3-Dichloropropene	<6.	µg/kgdrywt	1.2	5.0	EPA 8260	05/19/95	DW	
Trichloroethene	<3.	µg/kgdrywt	1.2	2.5	EPA 8260	05/19/95	DW	
Dibromochloromethane	<6.	µg/kgdrywt	1.2	5.0	EPA 8260	05/19/95	DW	
1,1,2-Trichloroethane	<6.	µg/kgdrywt	1.2	5.0	EPA 8260	05/19/95	DW	
Benzene	<2.4	µg/kgdrywt	1.2	2.0	EPA 8260	05/19/95	DW	
trans-1,3-Dichloropropene	<6.	µg/kgdrywt	1.2	5.0	EPA 8260	05/19/95	DW	
Bromoform	<6.	µg/kgdrywt	1.2	5.0	EPA 8260	05/19/95	DW	
4-Methyl-2-pentanone	<3.6	µg/kgdrywt	1.2	3.0	EPA 8260	05/19/95	DW	
2-Hexanone	<4.8	µg/kgdrywt	1.2	4.0	EPA 8260	05/19/95	DW	
Tetrachloroethene	<2.4	µg/kgdrywt	1.2	2.0	EPA 8260	05/19/95	DW	

* 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.

06/16/95

LJO/jcbeaw/gbp(dw)/sra
LE19VLS1

ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0786-7
Report Date: 06/16/95
PO No. : 802SLOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SD919	Solid	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
1,1,2,2-Tetrachloroethane	<6.	µg/kgdrywt	1.2	5.0	EPA 8260	05/19/95	DW	
Toluene	<2.4	µg/kgdrywt	1.2	2.0	EPA 8260	05/19/95	DW	
Chlorobenzene	<6.	µg/kgdrywt	1.2	5.0	EPA 8260	05/19/95	DW	
Ethylbenzene	<2.4	µg/kgdrywt	1.2	2.0	EPA 8260	05/19/95	DW	
Styrene	<2.4	µg/kgdrywt	1.2	2.0	EPA 8260	05/19/95	DW	
Total Xylenes	<2.4	µg/kgdrywt	1.2	2.0	EPA 8260	05/19/95	DW	
Dibromofluoromethane (Surr.)	106.	%	1.2		EPA 8260	05/19/95	DW	
Toluene-d8 (Surr.)	$69	%	1.2		EPA 8260	05/19/95	DW	
p-Bromofluorobenzene (Surr.)	80.	%	1.2		EPA 8260	05/19/95	DW	

* 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.

06/16/95

LJO/jcbeaw/gbp(dw)/sra
LE19VLS1

Respectfully submitted,
PACE, INC.

Laura J. O'Meara
Supervisor, Client Services

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: PACE, INC.
SDG No.: S9SD012
Matrix (soil/water): Soil
Lab Sample ID: S9SD919
Sample wt/vol: 5 (g/ml) g
Lab File ID: Y9054
Level: (low/med) low
Date Received: 5/19/95
% Moisture: not dec. 20
Date Analyzed: 5/19/95
GC Column: RTX-624 ID: 0.53
Dilution Factor: 1.0
Soil Extract Volume: 0 (ul)
Soil Aliquot Volume: 0 (ul)

Number of TICs Found: 12
CONCENTRATION UNITS (ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 124389	Carbon Dioxide	2.15	49	JNB
2.	Alkane	20.30	58	J
3.	Alkane	20.64	9	J
4.	Alkane	22.00	29	J
5.	Alkane	22.21	7	J
6.	Alkane	22.66	32	J
7.	Alkane	23.43	39	J
8.	Alkane	23.65	62	J
9.	Alkane	24.35	39	J
10.	Alkane	24.58	52	J
11.	Alkane	25.00	14	J
12.	Alkane	26.18	26	J
13.				
14.				
15.				
16.				
17.				
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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-0786-7
Report Date: 06/16/95
PO No. : 802SLOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SD919	Solid	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Volatile Organics by EPA 8260								1,2
Reanalysis								
Chloromethane	<6.	µg/kgdrywt	1.2	5.0	EPA 8260	05/26/95	DW	
Bromomethane	<6.	µg/kgdrywt	1.2	5.0	EPA 8260	05/26/95	DW	
Vinyl chloride	<2.4	µg/kgdrywt	1.2	2.0	EPA 8260	05/26/95	DW	
Chloroethane	<2.4	µg/kgdrywt	1.2	2.0	EPA 8260	05/26/95	DW	
Methylene chloride	B12	µg/kgdrywt	1.2	3.0	EPA 8260	05/26/95	DW	
Acetone	<6.	µg/kgdrywt	1.2	5.0	EPA 8260	05/26/95	DW	
Carbon disulfide	<6.	µg/kgdrywt	1.2	5.0	EPA 8260	05/26/95	DW	
1,1-Dichloroethene	<1.2	µg/kgdrywt	1.2	1.0	EPA 8260	05/26/95	DW	
1,1-Dichloroethane	<2.4	µg/kgdrywt	1.2	2.0	EPA 8260	05/26/95	DW	
Total 1,2-Dichloroethene	<2.4	µg/kgdrywt	1.2	2.0	EPA 8260	05/26/95	DW	
Chloroform	<6.	µg/kgdrywt	1.2	5.0	EPA 8260	05/26/95	DW	
1,2-Dichloroethane	<2.4	µg/kgdrywt	1.2	2.0	EPA 8260	05/26/95	DW	
2-Butanone	<6.	µg/kgdrywt	1.2	5.0	EPA 8260	05/26/95	DW	

* 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) "$" flag denotes surrogate compound recovery is out of criteria. Re-extraction or re-analysis confirmed matrix interference.

06/16/95

LJO/jcbeaw/gbp(dw)/sra
LE26VLS1

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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-0786-7
Report Date: 06/16/95
PO No. : 802SLCA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SD919	Solid	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
1,1,1-Trichloroethane	<2.4	µg/kgdrywt	1.2	2.0	EPA 8260	05/26/95	DW	
Carbon tetrachloride	<6.	µg/kgdrywt	1.2	5.0	EPA 8260	05/26/95	DW	
Bromodichloromethane	<6.	µg/kgdrywt	1.2	5.0	EPA 8260	05/26/95	DW	
1,2-Dichloropropane	<3.	µg/kgdrywt	1.2	2.5	EPA 8260	05/26/95	DW	
cis-1,3-Dichloropropene	<6.	µg/kgdrywt	1.2	5.0	EPA 8260	05/26/95	DW	
Trichloroethene	<3.	µg/kgdrywt	1.2	2.5	EPA 8260	05/26/95	DW	
Dibromochloromethane	<6.	µg/kgdrywt	1.2	5.0	EPA 8260	05/26/95	DW	
1,1,2-Trichloroethane	<6.	µg/kgdrywt	1.2	5.0	EPA 8260	05/26/95	DW	
Benzene	<2.4	µg/kgdrywt	1.2	2.0	EPA 8260	05/26/95	DW	
trans-1,3-Dichloropropene	<6.	µg/kgdrywt	1.2	5.0	EPA 8260	05/26/95	DW	
Bromoform	<6.	µg/kgdrywt	1.2	5.0	EPA 8260	05/26/95	DW	
4-Methyl-2-pentanone	<3.6	µg/kgdrywt	1.2	3.0	EPA 8260	05/26/95	DW	
2-Hexanone	<4.8	µg/kgdrywt	1.2	4.0	EPA 8260	05/26/95	DW	
Tetrachloroethene	<2.4	µg/kgdrywt	1.2	2.0	EPA 8260	05/26/95	DW	
1,1,2,2-Tetrachloroethane	<6.	µg/kgdrywt	1.2	5.0	EPA 8260	05/26/95	DW	

* 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.

06/16/95

LTO/jcbeaw/gbp(dw)/sra
L26VLS1

ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0786-7
Report Date: 06/16/95
PO No. : 802SLOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
SSSD919	Solid	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Toluene	<2.4	µg/kgdrywt	1.2	2.0	EPA 8260	05/26/95	DW	
Chlorobenzene	<6.	µg/kgdrywt	1.2	5.0	EPA 8260	05/26/95	DW	
Ethylbenzene	<2.4	µg/kgdrywt	1.2	2.0	EPA 8260	05/26/95	DW	
Styrene	<2.4	µg/kgdrywt	1.2	2.0	EPA 8260	05/26/95	DW	
Total Xylenes	<2.4	µg/kgdrywt	1.2	2.0	EPA 8260	05/26/95	DW	
Dibromofluoromethane (Surr.)	102.	%	1.2		EPA 8260	05/26/95	DW	
Toluene-d8 (Surr.)	$73	%	1.2		EPA 8260	05/26/95	DW	
p-Bromofluorobenzene (Surr.)	83.	%	1.2		EPA 8260	05/26/95	DW	

* 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.

06/16/95

LJO/jcbeaw/gbp(dw)/sra
LE26VLS1

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.:	S9SD012
Matrix (soil/water)	Soil	Lab Sample ID:	S9SD919RE
Sample wt/vol:	5 (g/ml) g	Lab File ID:	Y9205
Level: (low/med)	low	Date Received:	5/19/95
% Moisture: not dec.	20	Date Analyzed:	5/26/95
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/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 124389	Carbon Dioxide	2.14	69	JNB
2.	Alkane	23.39	7	J
3.	Alkane	23.63	10	J
4.	Alkane	26.15	7	J
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-0786-7
Report Date: 06/16/95
PO No. : 802SLOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SD919	Solid	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
TCL Semivolatile Organics by USEPA 8270								1,2,3,4
Phenol	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/07/95	WF	
bis(2-Chloroethyl)ether	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/07/95	WF	
2-Chlorophenol	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/07/95	WF	
1,3-Dichlorobenzene	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/07/95	WF	
1,4-Dichlorobenzene	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/07/95	WF	
1,2-Dichlorobenzene	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/07/95	WF	
2-Methylphenol	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/07/95	WF	
bis(2-Chloroisopropyl) ether	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/07/95	WF	
4-Methylphenol	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/07/95	WF	
n-Nitroso-dipropylamine	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/07/95	WF	
Hexachloroethane	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/07/95	WF	

* 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) Sample Preparation on 05/31/95 by LAG using EPA 3550
(2) "J" flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.
(3) "B" flag denotes detection of this analyte in the laboratory method blank analyzed concurrently with the sample.
(4) "E" flag indicates an estimated value. The analyte was detected in the sample at a concentration greater than the standard calibration range.

06/16/95

LJO/jcbajc/gbp(dw)/sra
LE31S1

ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0786-7
Report Date: 06/16/95
PO No. : 802SLOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SD919	Solid	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Nitrobenzene	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/07/95	WF	
Isophorone	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/07/95	WF	
2-Nitrophenol	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/07/95	WF	
2,4-Dimethylphenol	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/07/95	WF	
bis(2-Chloroethoxy)methane	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/07/95	WF	
2,4-Dichlorophenol	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/07/95	WF	
1,2,4-Trichlorobenzene	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/07/95	WF	
Naphthalene	J55.	µg/kgdrywt	1.2	330	EPA 8270	06/07/95	WF	
4-Chloroaniline	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/07/95	WF	
Hexachlorobutadiene	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/07/95	WF	
4-Chloro-3-methylphenol	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/07/95	WF	
2-Methylnaphthalene	J34.	µg/kgdrywt	1.2	330	EPA 8270	06/07/95	WF	
Hexachlorocyclopentadiene	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/07/95	WF	

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06/16/95

LJO/jcbajc/gbp(dw)/sra
LE31S1

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0786-7
Report Date: 06/16/95
PO No. : 802SLOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SD919	Solid	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
2,4,6-Trichlorophenol	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/07/95	WF	
2,4,5-Trichlorophenol	<980.	µg/kgdrywt	1.2	820	EPA 8270	06/07/95	WF	
2-Chloronaphthalene	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/07/95	WF	
2-Nitroaniline	<980.	µg/kgdrywt	1.2	820	EPA 8270	06/07/95	WF	
Dimethylphthalate	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/07/95	WF	
Acenaphthylene	J30.	µg/kgdrywt	1.2	330	EPA 8270	06/07/95	WF	
2,6-Dinitrotoluene	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/07/95	WF	
3-Nitroaniline	<980.	µg/kgdrywt	1.2	820	EPA 8270	06/07/95	WF	
Acenaphthene	J240.	µg/kgdrywt	1.2	330	EPA 8270	06/07/95	WF	
2,4-Dinitrophenol	<980.	µg/kgdrywt	1.2	820	EPA 8270	06/07/95	WF	
4-Nitrophenol	<980.	µg/kgdrywt	1.2	820	EPA 8270	06/07/95	WF	
Dibenzofuran	J94.	µg/kgdrywt	1.2	330	EPA 8270	06/07/95	WF	
2,4-Dinitrotoluene	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/07/95	WF	

* 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.

06/16/95

LJO/jcbajc/gbp(dw)/sra
LE31S1

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0786-7
Report Date: 06/16/95
PO No. : 802SLCA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SD919	Solid	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Diethylphthalate	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/07/95	WF	
4-Chlorophenyl phenyl ether	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/07/95	WF	
Fluorene	J250.	µg/kgdrywt	1.2	330	EPA 8270	06/07/95	WF	
4-Nitroaniline	<980.	µg/kgdrywt	1.2	820	EPA 8270	06/07/95	WF	
4,6-Dinitro-2-methylphenol	<980.	µg/kgdrywt	1.2	820	EPA 8270	06/07/95	WF	
n-Nitrosodiphenylamine	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/07/95	WF	
4-Bromophenyl phenyl ether	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/07/95	WF	
Hexachlorobenzene	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/07/95	WF	
Pentachlorophenol	<980.	µg/kgdrywt	1.2	820	EPA 8270	06/07/95	WF	
Phenanthrene	4700.	µg/kgdrywt	1.2	330	EPA 8270	06/07/95	WF	
Anthracene	560.	µg/kgdrywt	1.2	330	EPA 8270	06/07/95	WF	
Carbazole	440.	µg/kgdrywt	1.2	330	EPA 8270	06/07/95	WF	
Di-n-butylphthalate	JB23	µg/kgdrywt	1.2	330	EPA 8270	06/07/95	WF	

* 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.

06/16/95

LJO/jcbajc/gbp(dw)/sra
LE31S1

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0786-7
Report Date: 06/16/95
PO No. : 802SLOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SD919	Solid	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Fluoranthene	E20000	µg/kgdrywt	1.2	330	EPA 8270	06/07/95	WF	
Pyrene	E17000	µg/kgdrywt	1.2	330	EPA 8270	06/07/95	WF	
Butyl benzylphthalate	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/07/95	WF	
3,3'-Dichlorobenzidine	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/07/95	WF	
Benzo(a)anthracene	E9700	µg/kgdrywt	1.2	330	EPA 8270	06/07/95	WF	
Chrysene	E9700	µg/kgdrywt	1.2	330	EPA 8270	06/07/95	WF	
bis(2-Ethylhexyl)phthalate	J290.	µg/kgdrywt	1.2	330	EPA 8270	06/07/95	WF	
Di-n-octylphthalate	J25.	µg/kgdrywt	1.2	330	EPA 8270	06/07/95	WF	
Benzo(b)fluoranthene	E12000	µg/kgdrywt	1.2	330	EPA 8270	06/07/95	WF	
Benzo(k)fluoranthene	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/07/95	WF	
Benzo(a)pyrene	5500.	µg/kgdrywt	1.2	330	EPA 8270	06/07/95	WF	
Indeno(1,2,3-cd)pyrene	2500.	µg/kgdrywt	1.2	330	EPA 8270	06/07/95	WF	
Dibenzo(a,h)anthracene	<400.	µg/kgdrywt	1.2	330	EPA 8270	06/07/95	WF	

* 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.

06/16/95

LJO/jcbajc/gbp(dw)/sra
LE31S1

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0786-7
Report Date: 06/16/95
PO No. : 802SLOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SD919	Solid	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Benzo(g,h,i)perylene	2500.	µg/kgdrywt	1.2	330	EPA 8270	06/07/95	WF	
2-Fluorophenol(Surr.)	68.	%	1.2		EPA 8270	06/07/95	WF	
Phenol-d5(Surr.)	65.	%	1.2		EPA 8270	06/07/95	WF	
Nitrobenzene-d5(Surr.)	86.	%	1.2		EPA 8270	06/07/95	WF	
2-Fluorobiphenyl(Surr.)	87.	%	1.2		EPA 8270	06/07/95	WF	
2,4,6-Tribromophenol(Surr.)	71.	%	1.2		EPA 8270	06/07/95	WF	
Terphenyl-d14(Surr.)	84.	%	1.2		EPA 8270	06/07/95	WF	
2-Chlorophenol-d4(Surr.	71.	%	1.2		EPA 8270	06/07/95	WF	
1,2-Dichlorobenzene-d4(Surr.)	72.	%	1.2		EPA 8270	06/07/95	WF	

* 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.

06/16/95

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LE31S1

Respectfully submitted,
PACE, INC.

Laura J. O'Meara
Supervisor, Client Services

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: PACE, INC.
SDG No.: S9SD012
Matrix (soil/water): soil
Lab Sample ID: S9SD919DL
Sample wt/vol: 30 (g/ml) g
Lab File ID: Z7192
Level: (low/med) low
Date Received: 5/19/95
% Moisture: not dec. 20 N (Y/N) Decanted
Date Extracted: 5/31/95
Concentrated Extract Volume 500 (ul)
Date Analyzed: 6/9/95
Injection Volume 1.0 (ul)
Dilution Factor: 5.0
GPC Cleanup: Y (Y/N)
Soil Aliquot Volume: 0 (ul)
pH: N/A
CONCENTRATION UNITS (ug/L or ug/KG) ug/KG

Number of TIC's: 14

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 123422	4-hydroxy-4-methyl-2-Pentanone	5.68	23000	JNAB
2.	PAH, MW=192	21.99	950	J
3.	PAH, MW=190	22.18	1700	J
4. 35465715	2-Phenylnaphthalene	22.72	1500	JN
5. 243174	11H-Benzo[b]fluorene	25.18	2400	JN
6. 238846	11H-Benzo[a]fluorene	25.34	1700	JN
7. 239350	Benzo[b]naphtho[2,1-d]thiophene	26.74	980	JN
8. 203123	Benzo[ghi]fluoranthene	26.85	1600	JN
9.	Unknown	28.05	1200	J
10.	Unknown, phthalate ester	28.64	4000	J
11.	Alkane	29.43	1200	J
12.	Unknown, phthalate ester	29.58	2000	J
13.	Unknown, phthalate ester	30.22	5700	J
14. 205823	Benzo[j]fluoranthene	30.57	4400	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-0786-2
Report Date: 06/16/95
PO No. : 802SLOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SD922	Solid	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Volatile Organics by EPA 8260								1,2
Chloromethane	<9.	µg/kgdrywt	1.8	5.0	EPA 8260	05/26/95	DW	
Bromomethane	<9.	µg/kgdrywt	1.8	5.0	EPA 8260	05/26/95	DW	
Vinyl chloride	<3.6	µg/kgdrywt	1.8	2.0	EPA 8260	05/26/95	DW	
Chloroethane	<3.6	µg/kgdrywt	1.8	2.0	EPA 8260	05/26/95	DW	
Methylene chloride	B25	µg/kgdrywt	1.8	3.0	EPA 8260	05/26/95	DW	
Acetone	91.	µg/kgdrywt	1.8	5.0	EPA 8260	05/26/95	DW	
Carbon disulfide	<9.	µg/kgdrywt	1.8	5.0	EPA 8260	05/26/95	DW	
1,1-Dichloroethene	<1.8	µg/kgdrywt	1.8	1.0	EPA 8260	05/26/95	DW	
1,1-Dichloroethane	<3.6	µg/kgdrywt	1.8	2.0	EPA 8260	05/26/95	DW	
Total 1,2-Dichloroethene	<3.6	µg/kgdrywt	1.8	2.0	EPA 8260	05/26/95	DW	
Chloroform	<9.	µg/kgdrywt	1.8	5.0	EPA 8260	05/26/95	DW	
1,2-Dichloroethane	<3.6	µg/kgdrywt	1.8	2.0	EPA 8260	05/26/95	DW	
2-Butanone	<9.	µg/kgdrywt	1.8	5.0	EPA 8260	05/26/95	DW	
1,1,1-Trichloroethane	<3.6	µg/kgdrywt	1.8	2.0	EPA 8260	05/26/95	DW	

* 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.

06/16/95

LJO/jcbeaw/gbp(dw)/sra
LE26VLS1

ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0786-2
Report Date: 06/16/95
PO No. : 802SLOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SD922	Solid	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Carbon tetrachloride	<9.	µg/kgdrywt	1.8	5.0	EPA 8260	05/26/95	DW	
Bromodichloromethane	<9.	µg/kgdrywt	1.8	5.0	EPA 8260	05/26/95	DW	
1,2-Dichloropropane	<4.5	µg/kgdrywt	1.8	2.5	EPA 8260	05/26/95	DW	
cis-1,3-Dichloropropene	<9.	µg/kgdrywt	1.8	5.0	EPA 8260	05/26/95	DW	
Trichloroethene	<4.5	µg/kgdrywt	1.8	2.5	EPA 8260	05/26/95	DW	
Dibromochloromethane	<9.	µg/kgdrywt	1.8	5.0	EPA 8260	05/26/95	DW	
1,1,2-Trichloroethane	<9.	µg/kgdrywt	1.8	5.0	EPA 8260	05/26/95	DW	
Benzene	<3.6	µg/kgdrywt	1.8	2.0	EPA 8260	05/26/95	DW	
trans-1,3-Dichloropropene	<9.	µg/kgdrywt	1.8	5.0	EPA 8260	05/26/95	DW	
Bromoform	<9.	µg/kgdrywt	1.8	5.0	EPA 8260	05/26/95	DW	
4-Methyl-2-pentanone	<5.4	µg/kgdrywt	1.8	3.0	EPA 8260	05/26/95	DW	
2-Hexanone	<7.2	µg/kgdrywt	1.8	4.0	EPA 8260	05/26/95	DW	
Tetrachloroethene	J2	µg/kgdrywt	1.8	2.0	EPA 8260	05/26/95	DW	
1,1,2,2-Tetrachloroethane	<9.	µg/kgdrywt	1.8	5.0	EPA 8260	05/26/95	DW	
Toluene	<3.6	µg/kgdrywt	1.8	2.0	EPA 8260	05/26/95	DW	

* 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.

06/16/95

LJO/jcbeaw/gbp(dw)/sra
LE26VLS1

ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0786-2
Report Date: 06/16/95
PO No. : 802SLOA
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
S9SD922	Solid	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chlorobenzene	<9.	µg/kgdrywt	1.8	5.0	EPA 8260	05/26/95	DW	
Ethylbenzene	<3.6	µg/kgdrywt	1.8	2.0	EPA 8260	05/26/95	DW	
Styrene	<3.6	µg/kgdrywt	1.8	2.0	EPA 8260	05/26/95	DW	
Total Xylenes	<3.6	µg/kgdrywt	1.8	2.0	EPA 8260	05/26/95	DW	
Dibromofluoromethane (Surr.)	88.	%	1.8		EPA 8260	05/26/95	DW	
Toluene-d8 (Surr.)	92.	%	1.8		EPA 8260	05/26/95	DW	
p-Bromofluorobenzene (Surr.)	82.	%	1.8		EPA 8260	05/26/95	DW	

* 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.

06/16/95

LJO/jcbeaw/gbp(dw)/sra
LE26VLS1

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.:	S9SD012
Matrix (soil/water)	Soil	Lab Sample ID:	S9SD922
Sample wt/vol:	5 (g/ml) g	Lab File ID:	Y9211
Level: (low/med)	low	Date Received:	5/19/95
% Moisture: not dec.	43	Date Analyzed:	5/26/95
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	2.13	52	JNB
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1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: PACE, INC.

SDG No.: S9SD012

Matrix (soil/water): soil

Lab Sample ID: S9SD919

Sample wt/vol: 30 (g/ml) g

Lab File ID: Z7152

Level: (low/med) low

Date Received: 5/19/95

% Moisture: not dec. 20 N (Y/N) Decanted

Date Extracted: 5/31/95

Concentrated Extract Volume 500 (ul)

Date Analyzed: 6/7/95

Injection Volume 1.0 (ul)

Dilution Factor: 1.0

GPC Cleanup: Y (Y/N)

Soil Aliquot Volume: 0 (ul)

pH: N/A

CONCENTRATION UNITS (ug/L or ug/KG) ug/KG

Number of TIC's: 18

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 123422	4-hydroxy-4-methyl-2-Pentanone	5.91	22000	JNAB
2.	PAH, MW=192	22.14	870	J
3.	PAH, MW=192	22.20	760	J
4.	PAH, MW=190	22.39	1300	J
5. 35465715	2-Phenylnaphthalene	22.93	1300	JN
6. 243174	11H-Benzo[b]fluorene	25.40	720	JN
7. 238846	11H-Benzo[a]fluorene	25.58	470	JN
8.	PAH, MW=216	25.65	360	J
9. 239350	Benzo[b]naphtho[2,1-d]thiophene	26.99	280	JN
10. 203123	Benzo[ghi]fluoranthene	27.07	510	JN
11.	Unknown, MW=229	27.17	210	J
12.	Unknown, MW=242	28.16	260	J
13.	Unknown	28.26	330	J
14.	Unknown, phthalate ester	28.85	1000	J
15.	Alkane	29.64	1200	J
16.	Unknown, phthalate ester	29.80	1600	J
17.	Unknown, phthalate ester	30.44	9700	J
18. 205823	Benzo[j]fluoranthene	30.83	3400	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-0786-7
Report Date: 06/16/95
PO No. : 802SLOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SD919	Solid	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
TCL Semivolatile Organics by USEPA 8270 Dilution								1,2
Phenol	<2000.	µg/kgdrywt	6.0	330	EPA 8270	06/09/95	DW	
bis(2-Chloroethyl)ether	<2000.	µg/kgdrywt	6.0	330	EPA 8270	06/09/95	DW	
2-Chlorophenol	<2000.	µg/kgdrywt	6.0	330	EPA 8270	06/09/95	DW	
1,3-Dichlorobenzene	<2000.	µg/kgdrywt	6.0	330	EPA 8270	06/09/95	DW	
1,4-Dichlorobenzene	<2000.	µg/kgdrywt	6.0	330	EPA 8270	06/09/95	DW	
1,2-Dichlorobenzene	<2000.	µg/kgdrywt	6.0	330	EPA 8270	06/09/95	DW	
2-Methylphenol	<2000.	µg/kgdrywt	6.0	330	EPA 8270	06/09/95	DW	
bis(2-Chloroisopropyl) ether	<2000.	µg/kgdrywt	6.0	330	EPA 8270	06/09/95	DW	
4-Methylphenol	<2000.	µg/kgdrywt	6.0	330	EPA 8270	06/09/95	DW	
n-Nitroso-dipropylamine	<2000.	µg/kgdrywt	6.0	330	EPA 8270	06/09/95	DW	
Hexachloroethane	<2000.	µg/kgdrywt	6.0	330	EPA 8270	06/09/95	DW	
Nitrobenzene	<2000.	µg/kgdrywt	6.0	330	EPA 8270	06/09/95	DW	
Isophorone	<2000.	µg/kgdrywt	6.0	330	EPA 8270	06/09/95	DW	

* 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) Sample Preparation on 05/31/95 by LAG using EPA 3550
(2) "J" flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.

06/16/95

LJO/jcbajc/gbp(dw)/sra
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pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0786-7
Report Date: 06/16/95
PO No. : 802SLOA
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
S9SD919	Solid	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
2-Nitrophenol	<2000.	µg/kgdrywt	6.0	330	EPA 8270	06/09/95	DW	
2,4-Dimethylphenol	<2000.	µg/kgdrywt	6.0	330	EPA 8270	06/09/95	DW	
bis(2-Chloroethoxy)methane	<2000.	µg/kgdrywt	6.0	330	EPA 8270	06/09/95	DW	
2,4-Dichlorophenol	<2000.	µg/kgdrywt	6.0	330	EPA 8270	06/09/95	DW	
1,2,4-Trichlorobenzene	<2000.	µg/kgdrywt	6.0	330	EPA 8270	06/09/95	DW	
Naphthalene	J57.	µg/kgdrywt	6.0	330	EPA 8270	06/09/95	DW	
4-Chloroaniline	<2000.	µg/kgdrywt	6.0	330	EPA 8270	06/09/95	DW	
Hexachlorobutadiene	<2000.	µg/kgdrywt	6.0	330	EPA 8270	06/09/95	DW	
4-Chloro-3-methylphenol	<2000.	µg/kgdrywt	6.0	330	EPA 8270	06/09/95	DW	
2-Methylnaphthalene	<2000.	µg/kgdrywt	6.0	330	EPA 8270	06/09/95	DW	
Hexachlorocyclopentadiene	<2000.	µg/kgdrywt	6.0	330	EPA 8270	06/09/95	DW	
2,4,6-Trichlorophenol	<2000.	µg/kgdrywt	6.0	330	EPA 8270	06/09/95	DW	
2,4,5-Trichlorophenol	<4900.	µg/kgdrywt	6.0	820	EPA 8270	06/09/95	DW	
2-Chloronaphthalene	<2000.	µg/kgdrywt	6.0	330	EPA 8270	06/09/95	DW	
2-Nitroaniline	<4900.	µg/kgdrywt	6.0	820	EPA 8270	06/09/95	DW	

* 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.

06/16/95

LJO/jcbajc/gbp(dw)/sra
LE31S1

ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0786-7
Report Date: 06/16/95
PO No. : 802SLOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SD919	Solid	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Dimethylphthalate	<2000.	µg/kgdrywt	6.0	330	EPA 8270	06/09/95	DW	
Acenaphthylene	<2000.	µg/kgdrywt	6.0	330	EPA 8270	06/09/95	DW	
2,6-Dinitrotoluene	<2000.	µg/kgdrywt	6.0	330	EPA 8270	06/09/95	DW	
3-Nitroaniline	<4900.	µg/kgdrywt	6.0	820	EPA 8270	06/09/95	DW	
Acenaphthene	J240.	µg/kgdrywt	6.0	330	EPA 8270	06/09/95	DW	
2,4-Dinitrophenol	<4900.	µg/kgdrywt	6.0	820	EPA 8270	06/09/95	DW	
4-Nitrophenol	<4900.	µg/kgdrywt	6.0	820	EPA 8270	06/09/95	DW	
Dibenzofuran	J90.	µg/kgdrywt	6.0	330	EPA 8270	06/09/95	DW	
2,4-Dinitrotoluene	<2000.	µg/kgdrywt	6.0	330	EPA 8270	06/09/95	DW	
Diethylphthalate	<2000.	µg/kgdrywt	6.0	330	EPA 8270	06/09/95	DW	
4-Chlorophenyl phenyl ether	<2000.	µg/kgdrywt	6.0	330	EPA 8270	06/09/95	DW	
Fluorene	J260.	µg/kgdrywt	6.0	330	EPA 8270	06/09/95	DW	
4-Nitroaniline	<4900.	µg/kgdrywt	6.0	820	EPA 8270	06/09/95	DW	
4,6-Dinitro-2-methylphenol	<4900.	µg/kgdrywt	6.0	820	EPA 8270	06/09/95	DW	
n-Nitrosodiphenylamine	<2000.	µg/kgdrywt	6.0	330	EPA 8270	06/09/95	DW	

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06/16/95

LJO/jcbajc/gbp(dw)/sra
LE31S1

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0786-7
Report Date: 06/16/95
PO No. : 802SLOA
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
S9SD919	Solid	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
4-Bromophenyl phenyl ether	<2000.	µg/kgdrywt	6.0	330	EPA 8270	06/09/95	DW	
Hexachlorobenzene	<2000.	µg/kgdrywt	6.0	330	EPA 8270	06/09/95	DW	
Pentachlorophenol	<4900.	µg/kgdrywt	6.0	820	EPA 8270	06/09/95	DW	
Phenanthrene	5200.	µg/kgdrywt	6.0	330	EPA 8270	06/09/95	DW	
Anthracene	J570.	µg/kgdrywt	6.0	330	EPA 8270	06/09/95	DW	
Carbazole	J390.	µg/kgdrywt	6.0	330	EPA 8270	06/09/95	DW	
Di-n-butylphthalate	<2000.	µg/kgdrywt	6.0	330	EPA 8270	06/09/95	DW	
Fluoranthene	24000.	µg/kgdrywt	6.0	330	EPA 8270	06/09/95	DW	
Pyrene	20000.	µg/kgdrywt	6.0	330	EPA 8270	06/09/95	DW	
Butyl benzylphthalate	<2000.	µg/kgdrywt	6.0	330	EPA 8270	06/09/95	DW	
3,3'-Dichlorobenzidine	<2000.	µg/kgdrywt	6.0	330	EPA 8270	06/09/95	DW	
Benzo(a)anthracene	9800.	µg/kgdrywt	6.0	330	EPA 8270	06/09/95	DW	
Chrysene	10000.	µg/kgdrywt	6.0	330	EPA 8270	06/09/95	DW	
bis(2-Ethylhexyl)phthalate	J270.	µg/kgdrywt	6.0	330	EPA 8270	06/09/95	DW	
Di-n-octylphthalate	<2000.	µg/kgdrywt	6.0	330	EPA 8270	06/09/95	DW	

* 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.

06/16/95

LJO/jcbajc/gbp(dw)/sra
LE31S1

ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0786-7
Report Date: 06/16/95
PO No. : 802SLOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SD919	Solid	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Benzo(b)fluoranthene	12000.	µg/kgdrywt	6.0	330	EPA 8270	06/09/95	DW	
Benzo(k)fluoranthene	<2000.	µg/kgdrywt	6.0	330	EPA 8270	06/09/95	DW	
Benzo(a)pyrene	6000.	µg/kgdrywt	6.0	330	EPA 8270	06/09/95	DW	
Indeno(1,2,3-cd)pyrene	2700.	µg/kgdrywt	6.0	330	EPA 8270	06/09/95	DW	
Dibenzo(a,h)anthracene	J800.	µg/kgdrywt	6.0	330	EPA 8270	06/09/95	DW	
Benzo(g,h,i)perylene	2800.	µg/kgdrywt	6.0	330	EPA 8270	06/09/95	DW	
2-Fluorophenol(Surr.)	74.	%	6.0		EPA 8270	06/09/95	DW	
Phenol-d5(Surr.)	71.	%	6.0		EPA 8270	06/09/95	DW	
Nitrobenzene-d5(Surr.)	69.	%	6.0		EPA 8270	06/09/95	DW	
2-Fluorobiphenyl(Surr.)	93.	%	6.0		EPA 8270	06/09/95	DW	
2,4,6-Tribromophenol(Surr.)	61.	%	6.0		EPA 8270	06/09/95	DW	
Terphenyl-d14(Surr.)	86.	%	6.0		EPA 8270	06/09/95	DW	
2-Chlorophenol-d4(Surr.)	81.	%	6.0		EPA 8270	06/09/95	DW	
1,2-Dichlorobenzene-d4(Surr.)	84.	%	6.0		EPA 8270	06/09/95	DW	

* 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.

06/16/95

LJO/jcbajc/gbp(dw)/sra
LE31S1

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0787-10
Report Date: 06/13/95
PO No. : 802LSOA
Project : 2960047

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9RB001	Aqueous	J. NEWMAN	05/17/95	05/19/95

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	05/26/95	DW	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	05/26/95	DW	
Vinyl chloride	<2.	µg/L	1.0	2.0	EPA 8260	05/26/95	DW	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	05/26/95	DW	
Methylene chloride	JB2	µg/L	1.0	3.0	EPA 8260	05/26/95	DW	
Acetone	B25	µg/L	1.0	5.0	EPA 8260	05/26/95	DW	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	05/26/95	DW	
1,1-Dichloroethene	<1.	µg/L	1.0	1.0	EPA 8260	05/26/95	DW	
1,1-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	05/26/95	DW	
Total 1,2-Dichloroethene	<2.	µg/L	1.0	2.0	EPA 8260	05/26/95	DW	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	05/26/95	DW	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	05/26/95	DW	
2-Butanone	JB4	µg/L	1.0	5.0	EPA 8260	05/26/95	DW	
1,1,1-Trichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	05/26/95	DW	

* 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.

06/13/95

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LE26VLW1

340 County Road #5, PO Box 720
Westbrook, ME 04098
TEL: 207-874-2400

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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-0787-10
Report Date: 06/13/95
PO No. : 802LSOA
Project : 2960047

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9RB001	Aqueous	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	05/26/95	DW	
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	05/26/95	DW	
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	05/26/95	DW	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	05/26/95	DW	
Trichloroethene	<2.5	µg/L	1.0	2.5	EPA 8260	05/26/95	DW	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	05/26/95	DW	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	05/26/95	DW	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	05/26/95	DW	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	05/26/95	DW	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	05/26/95	DW	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	05/26/95	DW	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	05/26/95	DW	
Tetrachloroethene	<2.	µg/L	1.0	2.0	EPA 8260	05/26/95	DW	
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	05/26/95	DW	
Toluene	4.	µg/L	1.0	2.0	EPA 8260	05/26/95	DW	

* 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.

06/13/95

LJO/jcbeaw/gbp(dw)/sra
LE26VLW1

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0787-10
Report Date: 06/13/95
PO No. : 802LSOA
Project : 2960047

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9RB001	Aqueous	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	05/26/95	DW	
Ethylbenzene	J2	µg/L	1.0	2.0	EPA 8260	05/26/95	DW	
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	05/26/95	DW	
Total Xylenes	11.	µg/L	1.0	2.0	EPA 8260	05/26/95	DW	
Dibromofluoromethane (Surr.)	102.	%	1.0		EPA 8260	05/26/95	DW	
Toluene-d8 (Surr.)	98.	%	1.0		EPA 8260	05/26/95	DW	
p-Bromofluorobenzene (Surr.)	94.	%	1.0		EPA 8260	05/26/95	DW	

* 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.

06/13/95

LJO/jcbeaw/gbp(dw)/sra
LE26VLW1

Respectfully submitted,
PACE, INC.

Laura J. O'Meara
Supervisor, Client Services

340 County Road #5, P.O. Box 720
Westbrook, ME 04098
TEL: 207-874-2400

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1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.:	S9SW012
Matrix (soil/water)	Water	Lab Sample ID:	S9RB001
Sample wt/vol:	5 (g/ml) ml	Lab File ID:	F1634.D
Level: (low/med)	low	Date Received:	5/19/95
% Moisture: not dec.	N/A	Date Analyzed:	5/26/95
GC Column:	RTX-624 ID: 0.18	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. 75-07-0	Acetaldehyde	3.75	15	JN
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U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

S9RB001

Lab Name: PACE_ME Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: S9SW01

Matrix (soil/water): WATER Lab Sample ID: WL0787-10

Level (low/med): LOW Date Received: 05/19/95

% 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	44.0	B		P
7440-36-0	Antimony	2.7	U	N	F
7440-38-2	Arsenic	1.7	B		F
7440-39-3	Barium	1.0	U	N	P
7440-41-7	Beryllium	0.30	U	N	P
7440-43-9	Cadmium	1.2	U	N	P
7440-70-2	Calcium	19.4	B		P
7440-47-3	Chromium	2.4	U	N	P
7440-48-4	Cobalt	2.1	U	N	P
7440-50-8	Copper	2.9	U	EN	P
7439-89-6	Iron	20.4	B		P
7439-92-1	Lead	0.72	U		F
7439-95-4	Magnesium	22.2	U		P
7439-96-5	Manganese	0.50	U		P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	7.2	U	N	P
7440-09-7	Potassium	336	U		P
7782-49-2	Selenium	0.63	U	N	F
7440-22-4	Silver	2.0	U	N	P
7440-23-5	Sodium	35.9	B		P
7440-28-0	Thallium	0.69	U	N	F
7440-62-2	Vanadium	2.4	U	N	P
7440-66-6	Zinc	5.6	B		P
5712-5	Cyanide	2.6	U		C

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

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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-0823-2
Report Date: 06/13/95
PO No. : 802LSOA
Project : 2960047

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPQD001	Aqueous	C. CORBETT	05/25/95	05/25/95

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	06/02/95	DW	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	06/02/95	DW	
Vinyl chloride	<2.	µg/L	1.0	2.0	EPA 8260	06/02/95	DW	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	06/02/95	DW	
Methylene chloride	B8	µg/L	1.0	3.0	EPA 8260	06/02/95	DW	
Acetone	17.	µg/L	1.0	5.0	EPA 8260	06/02/95	DW	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	06/02/95	DW	
1,1-Dichloroethene	<1.	µg/L	1.0	1.0	EPA 8260	06/02/95	DW	
1,1-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	06/02/95	DW	
Total 1,2-Dichloroethene	<2.	µg/L	1.0	2.0	EPA 8260	06/02/95	DW	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	06/02/95	DW	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	06/02/95	DW	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	06/02/95	DW	
1,1,1-Trichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	06/02/95	DW	

* 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.

06/13/95

LJO/jcbeaw/gbp(dw)/sra
LF02VLW1

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0823-2
Report Date: 06/13/95
PO No. : 802LSOA
Project : 2960047

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPQD001	Aqueous	C. CORBETT	05/25/95	05/25/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	06/02/95	DW	
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	06/02/95	DW	
1,2-Dichloropropane	J2.	µg/L	1.0	2.5	EPA 8260	06/02/95	DW	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	06/02/95	DW	
Trichloroethene	<2.5	µg/L	1.0	2.5	EPA 8260	06/02/95	DW	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	06/02/95	DW	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	06/02/95	DW	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	06/02/95	DW	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	06/02/95	DW	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	06/02/95	DW	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	06/02/95	DW	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	06/02/95	DW	
Tetrachloroethene	<2.	µg/L	1.0	2.0	EPA 8260	06/02/95	DW	
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	06/02/95	DW	
Toluene	<2.	µg/L	1.0	2.0	EPA 8260	06/02/95	DW	

* 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

06/13/95

LJO/jcbeaw/gbp(dw)/sra
LF02VLW1

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0823-2
Report Date: 06/13/95
PO No. : 802LSOA
Project : 2960047

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPQD001	Aqueous	C. CORBETT	05/25/95	05/25/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	06/02/95	DW	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	06/02/95	DW	
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	06/02/95	DW	
Total Xylenes	<2.	µg/L	1.0	2.0	EPA 8260	06/02/95	DW	
Dibromofluoromethane (Surr.)	111.	%	1.0		EPA 8260	06/02/95	DW	
Toluene-d8 (Surr.)	101.	%	1.0		EPA 8260	06/02/95	DW	
p-Bromofluorobenzene (Surr.)	96.	%	1.0		EPA 8260	06/02/95	DW	

* 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

06/13/95

LJO/jcbeaw/gbp(dw)/sra
LF02VLW1

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.:	EPMW311
Matrix (soil/water)	Water	Lab Sample ID:	EPQD001
Sample wt/vol:	5 (g/ml) ml	Lab File ID:	Y9395
Level: (low/med)	low	Date Received:	5/25/95
% Moisture: not dec.	N/A	Date Analyzed:	6/2/95.
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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pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0823-2
Report Date: 06/13/95
PO No. : 802LSOA
Project : 2960047

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPQD001	Aqueous	C. CORBETT	05/25/95	05/25/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
TCL Semivolatile Organics by USEPA 8270								1,2
Phenol	<10.	µg/L	1.0	10	EPA 8270	06/05/95	WF	
bis(2-Chloroethyl)ether	<10.	µg/L	1.0	10	EPA 8270	06/05/95	WF	
2-Chlorophenol	<10.	µg/L	1.0	10	EPA 8270	06/05/95	WF	
1,3-Dichlorobenzene	<10.	µg/L	1.0	10	EPA 8270	06/05/95	WF	
1,4-Dichlorobenzene	<10.	µg/L	1.0	10	EPA 8270	06/05/95	WF	
1,2-Dichlorobenzene	<10.	µg/L	1.0	10	EPA 8270	06/05/95	WF	
2-Methylphenol	<10.	µg/L	1.0	10	EPA 8270	06/05/95	WF	
bis(2-Chloroisopropyl) ether	<10.	µg/L	1.0	10	EPA 8270	06/05/95	WF	
4-Methylphenol	<10.	µg/L	1.0	10	EPA 8270	06/05/95	WF	
n-Nitroso-dipropylamine	<10.	µg/L	1.0	10	EPA 8270	06/05/95	WF	
Hexachloroethane	<10.	µg/L	1.0	10	EPA 8270	06/05/95	WF	
Nitrobenzene	<10.	µg/L	1.0	10	EPA 8270	06/05/95	WF	
Isophorone	<10.	µg/L	1.0	10	EPA 8270	06/05/95	WF	
2-Nitrophenol	<10.	µg/L	1.0	10	EPA 8270	06/05/95	WF	

* 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) Sample Preparation on 06/01/95 by MAM using EPA 3520
(2) "J" flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.

06/13/95

LJO/jcbajc/gbp(dw)/sra
LF01W1

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0823-2
Report Date: 06/13/95
PO No. : 802LSOA
Project : 2960047

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPQD001	Aqueous	C. CORBETT	05/25/95	05/25/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
2,4-Dimethylphenol	<10.	µg/L	1.0	10	EPA 8270	06/05/95	WF	
bis(2-Chloroethoxy)methane	<10.	µg/L	1.0	10	EPA 8270	06/05/95	WF	
2,4-Dichlorophenol	<10.	µg/L	1.0	10	EPA 8270	06/05/95	WF	
1,2,4-Trichlorobenzene	<10.	µg/L	1.0	10	EPA 8270	06/05/95	WF	
Naphthalene	<10.	µg/L	1.0	10	EPA 8270	06/05/95	WF	
4-Chloroaniline	<10.	µg/L	1.0	10	EPA 8270	06/05/95	WF	
Hexachlorobutadiene	<10.	µg/L	1.0	10	EPA 8270	06/05/95	WF	
4-Chloro-3-methylphenol	<10.	µg/L	1.0	10	EPA 8270	06/05/95	WF	
2-Methylnaphthalene	<10.	µg/L	1.0	10	EPA 8270	06/05/95	WF	
Hexachlorocyclopentadiene	<10.	µg/L	1.0	10	EPA 8270	06/05/95	WF	
2,4,6-Trichlorophenol	<10.	µg/L	1.0	10	EPA 8270	06/05/95	WF	
2,4,5-Trichlorophenol	<25.	µg/L	1.0	25	EPA 8270	06/05/95	WF	
2-Chloronaphthalene	<10.	µg/L	1.0	10	EPA 8270	06/05/95	WF	
2-Nitroaniline	<25.	µg/L	1.0	25	EPA 8270	06/05/95	WF	
Dimethylphthalate	<10.	µg/L	1.0	10	EPA 8270	06/05/95	WF	

* 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.

06/13/95

LJO/jcbajc/gbp(dw)/sra
LF01W1

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0823-2
Report Date: 06/13/95
PO No. : 802LSOA
Project : 2960047

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPQD001	Aqueous	C. CORBETT	05/25/95	05/25/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Acenaphthylene	<10.	µg/L	1.0	10	EPA 8270	06/05/95	WF	
2,6-Dinitrotoluene	<10.	µg/L	1.0	10	EPA 8270	06/05/95	WF	
3-Nitroaniline	<25.	µg/L	1.0	25	EPA 8270	06/05/95	WF	
Acenaphthene	<10.	µg/L	1.0	10	EPA 8270	06/05/95	WF	
2,4-Dinitrophenol	<25.	µg/L	1.0	25	EPA 8270	06/05/95	WF	
4-Nitrophenol	<25.	µg/L	1.0	25	EPA 8270	06/05/95	WF	
Dibenzofuran	<10.	µg/L	1.0	10	EPA 8270	06/05/95	WF	
2,4-Dinitrotoluene	<10.	µg/L	1.0	10	EPA 8270	06/05/95	WF	
Diethylphthalate	<10.	µg/L	1.0	10	EPA 8270	06/05/95	WF	
4-Chlorophenyl phenyl ether	<10.	µg/L	1.0	10	EPA 8270	06/05/95	WF	
Fluorene	<10.	µg/L	1.0	10	EPA 8270	06/05/95	WF	
4-Nitroaniline	<25.	µg/L	1.0	25	EPA 8270	06/05/95	WF	
4,6-Dinitro-2-methylphenol	<25.	µg/L	1.0	25	EPA 8270	06/05/95	WF	
n-Nitrosodiphenylamine	<10.	µg/L	1.0	10	EPA 8270	06/05/95	WF	
4-Bromophenyl phenyl ether	<10.	µg/L	1.0	10	EPA 8270	06/05/95	WF	

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06/13/95

LJO/jcbajc/gbp(dw)/sra
LF01W1

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0823-2
Report Date: 06/13/95
PO No. : 802LSOA
Project : 2960047

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPQD001	Aqueous	C. CORBETT	05/25/95	05/25/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Hexachlorobenzene	<10.	µg/L	1.0	10	EPA 8270	06/05/95	WF	
Pentachlorophenol	<25.	µg/L	1.0	25	EPA 8270	06/05/95	WF	
Phenanthrene	<10.	µg/L	1.0	10	EPA 8270	06/05/95	WF	
Anthracene	<10.	µg/L	1.0	10	EPA 8270	06/05/95	WF	
Carbazole	<10.	µg/L	1.0	10	EPA 8270	06/05/95	WF	
Di-n-butylphthalate	<10.	µg/L	1.0	10	EPA 8270	06/05/95	WF	
Fluoranthene	<10.	µg/L	1.0	10	EPA 8270	06/05/95	WF	
Pyrene	<10.	µg/L	1.0	10	EPA 8270	06/05/95	WF	
Butyl benzylphthalate	<10.	µg/L	1.0	10	EPA 8270	06/05/95	WF	
3,3'-Dichlorobenzidine	<10.	µg/L	1.0	10	EPA 8270	06/05/95	WF	
Benzo(a)anthracene	<10.	µg/L	1.0	10	EPA 8270	06/05/95	WF	
Chrysene	<10.	µg/L	1.0	10	EPA 8270	06/05/95	WF	
bis(2-Ethylhexyl)phthalate	J2.	µg/L	1.0	10	EPA 8270	06/05/95	WF	
Di-n-octylphthalate	<10.	µg/L	1.0	10	EPA 8270	06/05/95	WF	
Benzo(b)fluoranthene	<10.	µg/L	1.0	10	EPA 8270	06/05/95	WF	

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06/13/95

LJO/jcbajc/gbp(dw)/sra
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0823-2
Report Date: 06/13/95
PO No. : 802LSOA
Project : 2960047

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPQD001	Aqueous	C. CORBETT	05/25/95	05/25/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Benzo(k)fluoranthene	<10.	µg/L	1.0	10	EPA 8270	06/05/95	WF	
Benzo(a)pyrene	<10.	µg/L	1.0	10	EPA 8270	06/05/95	WF	
Indeno(1,2,3-cd)pyrene	<10.	µg/L	1.0	10	EPA 8270	06/05/95	WF	
Dibenzo(a,h)anthracene	<10.	µg/L	1.0	10	EPA 8270	06/05/95	WF	
Benzo(g,h,i)perylene	<10.	µg/L	1.0	10	EPA 8270	06/05/95	WF	
2-Fluorophenol(Surr.)	84.	%	1.0		EPA 8270	06/05/95	WF	
Phenol-d5(Surr.)	82.	%	1.0		EPA 8270	06/05/95	WF	
Nitrobenzene-d5(Surr.)	84.	%	1.0		EPA 8270	06/05/95	WF	
2-Fluorobiphenyl(Surr.)	83.	%	1.0		EPA 8270	06/05/95	WF	
2,4,6-Tribromophenol(Surr.)	75.	%	1.0		EPA 8270	06/05/95	WF	
Terphenyl-d14(Surr.)	91.	%	1.0		EPA 8270	06/05/95	WF	
2-Chlorophenol-d4(Surr.)	87.	%	1.0		EPA 8270	06/05/95	WF	
1,2-Dichlorobenzene-d4(Surr.)	78.	%	1.0		EPA 8270	06/05/95	WF	

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06/13/95

LJO/jcbajc/gbp(dw)/sra
LF01W1

Respectfully submitted,
PACE, INC.

Laura J. O'Meara

Laura J. O'Meara
Supervisor, Client Services

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: PACE, INC.

SDG No.: EPMW311

Matrix (soil/water): Water

Lab Sample ID: EPQD001

Sample wt/vol: 1000 (g/ml) ml

Lab File ID: Z7120

Level: (low/med) low

Date Received: 5/25/95

% Moisture: not dec. N/A N (Y/N) Decanted

Date Extracted: 6/1/95

Concentrated Extract Volume 1000 (ul)

Date Analyzed: 6/5/95

Injection Volume 1.0 (ul)

Dilution Factor: 1.0

GPC Cleanup: N (Y/N)

Soil Aliquot Volume: 0 (ul)

pH: N/A

CONCENTRATION UNITS
(ug/L or ug/KG) ug/L

Number of TIC's: 3

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 5185977	2-Pentanone, 5-(acetyloxy)-	5.34	5	JN
2. 123422	2-Pentanone, 4-hydroxy-4-methyl-	5.86	5	JNAB
3.	Unknown	24.83	5	J
4.				
5.				
6.				
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29.				

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0823-2
Report Date: 06/13/95
PO No. : 802LSOA
Project : 2960047

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPQD001	Aqueous	C. CORBETT	05/25/95	05/25/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
TCL Pesticides by USEPA 8080								1
alpha-BHC	<0.05	µg/L	1.0	0.05	EPA 8080	06/08/95	KP	
gamma-BHC (Lindane)	<0.05	µg/L	1.0	0.05	EPA 8080	06/08/95	KP	
Heptachlor	<0.05	µg/L	1.0	0.05	EPA 8080	06/08/95	KP	
Aldrin	<0.05	µg/L	1.0	0.05	EPA 8080	06/08/95	KP	
beta-BHC	<0.05	µg/L	1.0	0.05	EPA 8080	06/08/95	KP	
delta-BHC	<0.05	µg/L	1.0	0.05	EPA 8080	06/08/95	KP	
Heptachlor epoxide	<0.05	µg/L	1.0	0.05	EPA 8080	06/08/95	KP	
Endosulfan I	<0.05	µg/L	1.0	0.05	EPA 8080	06/08/95	KP	
gamma-Chlordane	<0.05	µg/L	1.0	0.05	EPA 8080	06/08/95	KP	
alpha-Chlordane	<0.05	µg/L	1.0	0.05	EPA 8080	06/08/95	KP	
4,4'-DDE	<0.1	µg/L	1.0	0.1	EPA 8080	06/08/95	KP	
Dieldrin	<0.1	µg/L	1.0	0.1	EPA 8080	06/08/95	KP	
Endrin	<0.1	µg/L	1.0	0.1	EPA 8080	06/08/95	KP	
4,4'-DDD	<0.1	µg/L	1.0	0.1	EPA 8080	06/08/95	KP	
Endosulfan II	<0.1	µg/L	1.0	0.1	EPA 8080	06/08/95	KP	

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(1) Sample Preparation on 06/01/95 by MSK using EPA 3510

06/13/95

LJO/jcbgbp(dw)/kp/mam/sra
LF01WPP1

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0823-2
Report Date: 06/13/95
PO No. : 802LSOA
Project : 2960047

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
EPQD001	Aqueous	C. CORBETT	05/25/95	05/25/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
4,4'-DDT	<0.1	µg/L	1.0	0.1	EPA 8080	06/08/95	KP	
Endrin aldehyde	<0.1	µg/L	1.0	0.1	EPA 8080	06/08/95	KP	
Endosulfan sulfate	<0.1	µg/L	1.0	0.1	EPA 8080	06/08/95	KP	
Methoxychlor	<0.5	µg/L	1.0	0.5	EPA 8080	06/08/95	KP	
Endrin ketone	<0.1	µg/L	1.0	0.1	EPA 8080	06/08/95	KP	
Toxaphene	<1.	µg/L	1.0	1	EPA 8080	06/08/95	KP	
2,4,5,6-Tetrachloro-meta-xylene (%	80.	%	1.0		EPA 8080	06/08/95	KP	
Decachlorobiphenyl (% Recovery)	101.	%	1.0		EPA 8080	06/08/95	KP	

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06/13/95

LJO/jcbgbp(dw)/kp/mam/sra
LF01WPP1

Respectfully submitted,
PACE, INC.

Laura J. O'Meara

Laura J. O'Meara
Supervisor, Client Services

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

EPQD001

Lab Name: PACE_ME Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: EPMW31

Matrix (soil/water): WATER Lab Sample ID: WL0823-2

Level (low/med): LOW Date Received: 05/25/95

% 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	41.3	B		P
7440-36-0	Antimony	2.7	U		F
7440-38-2	Arsenic	1.5	U		F
7440-39-3	Barium	7.9	B		P
7440-41-7	Beryllium	0.74	U		P
7440-43-9	Cadmium	3.4	U		P
7440-70-2	Calcium	135	B		P
7440-47-3	Chromium	7.9	U		P
7440-48-4	Cobalt	26.0	U		P
7440-50-8	Copper	9.9	U		P
7439-89-6	Iron	41.7	B		P
7439-92-1	Lead	1.3	B		F
7439-95-4	Magnesium	44.4	B		P
7439-96-5	Manganese	9.2	B		P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	40.0	U		P
7440-09-7	Potassium	480	U		P
7782-49-2	Selenium	1.3	B		F
7440-22-4	Silver	7.5	U		P
7440-23-5	Sodium	457	B		P
7440-28-0	Thallium	0.69	U		F
7440-62-2	Vanadium	9.4	U		P
7440-66-6	Zinc	25.9			P
5712-5	Cyanide	2.6	U		C

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0785-11
Report Date: 06/13/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9TB001	Aqueous	J. NEWMAN	05/17/95	05/19/95

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	05/25/95	DW	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
Vinyl chloride	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
Methylene chloride	B3	µg/L	1.0	3.0	EPA 8260	05/25/95	DW	
Acetone	B6	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
1,1-Dichloroethene	<1.	µg/L	1.0	1.0	EPA 8260	05/25/95	DW	
1,1-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
Total 1,2-Dichloroethene	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
1,1,1-Trichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	

* 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.

06/13/95

LJO/jcbeaw/gbp(dw)/sra
LE25VLW1

340 County Road #6, P.O. Box 722
Westbrook, ME 04092
TEL: 207-874-2400
FAX 207-775-4029

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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-0785-11
Report Date: 06/13/95
PO No. : 8021SOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9TB001	Aqueous	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	05/25/95	DW	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
Trichloroethene	<2.5	µg/L	1.0	2.5	EPA 8260	05/25/95	DW	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	05/25/95	DW	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	05/25/95	DW	
Tetrachloroethene	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
Toluene	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	

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06/13/95

LJO/jcbeaw/gbp(dw)/sra
LE25VLW1

340 County Road #6, P.O. Box 720
Westbrook, ME 04098
TEL: 207-874-2400
FAX: 207-775-1029

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-0785-11
Report Date: 06/13/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9TB001	Aqueous	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
Total Xylenes	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
Dibromofluoromethane (Surr.)	98.	%	1.0		EPA 8260	05/25/95	DW	
Toluene-d8 (Surr.)	99.	%	1.0		EPA 8260	05/25/95	DW	
p-Bromofluorobenzene (Surr.)	100.	%	1.0		EPA 8260	05/25/95	DW	

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06/13/95

LJO/jcbeaw/gbp(dw)/sra
LE25VLW1

340 County Road #5, PO Box 720
Westbrook, ME 04098
TEL: 207-874-2400
FAX: 207-775-1073

An Equal Opportunity Employer

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.:	S9MW906
Matrix (soil/water)	Water	Lab Sample ID:	S9TB001
Sample wt/vol:	5 (g/ml) ml	Lab File ID:	F1605.D
Level: (low/med)	low	Date Received:	5/19/95
% Moisture: not dec.	N/A	Date Analyzed:	5/25/95
GC Column:	RTX-624 ID: 0.18	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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215900

...MENTAL LABORATORIES

CHAIN-OF-CUSTODY RECORD
Analytical Request

nt EA
ress Clin Gurnet Rd
BRUNSWICK MAINE 04011-5000
ne (207) 798-5977

Report To: MIKE BATTLE
Bill To: EA NEWBURGH
P.O. # / Billing Reference
NTB LIMIT
Project Name / No. 21CE0047 T-1000

Pace Client No.
Pace Project Manager
Pace Project No. WL0780
*Requested Due Date:

pled By (PRINT): JOHN NEUMAN
pler Signature
Date Sampled 5/17/95

EM	SAMPLE DESCRIPTION	TIME	MATRIX	PACE NO.	NO. OF CONTAINERS	UNPRESERVED	H_2SO_4	HNO_3	VOA			ANALYSES REQUEST: VOC 8260	SVOC 8270A		REMARKS
1	BN-02-59-SE922 (JND)	1025	SEDIMENT	2	1	✓						✓		(3) S950922	VOA BY 8260
2	BN-02-59-SE916 (JND)	1040		3	1	✓						✓		(5) S950916	SVOA BY
3	BN-02-59-SE012MS/MSD (JND)	1050		1	4	✓						✓	✓	(1) S950012	
4	BN-02-59-SE010 Dup (JND)	1305		4 5-ap	4	✓						✓	✓	(4) S950010 (5) S950010P1	Perform library search on both SVOA, underlined
5	BN-02-59-SE011 (JND)	1335		6	2	✓						✓	✓	(6) S950011	
6	BN-02-59-SE919 (JND)	1355		7	2	✓						✓	✓	(4) S950919	
7	BN-02-59-SE915 (JND)	1425		8	2	✓						✓	✓	(7) S950915	
8															

COOLER NOS.	BAILERS	SHIPMENT METHOD OUT / DATE	RETURNED / DATE	ITEM NUMBER	RELINQUISHED BY / AFFILIATION	ACCEPTED BY / AFFILIATION	DATE	TIME
					John Neuman / EA	[illegible] / PACE	051795	0900
					[illegible]	Pace	051795	1045

...tional Comments
This is ~~complete to~~ SDG # BN-02-595D-012
~~WL0~~ WL0795
1 of 2 Cooler temp 3.5, 2.4, 4.4

...INAL

SEE REVERSE SIDE FOR INSTRUCTIONS

9000006

Appendix E.4

Leachate Seep and Sediment Samples
Site 9

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0787-2
Report Date: 06/13/95
PO No. : 802LSOA
Project : 2960047

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SP901	Aqueous	J. NEWMAN	05/17/95	05/19/95

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	05/25/95	DW	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
Vinyl chloride	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
Methylene chloride	B3	µg/L	1.0	3.0	EPA 8260	05/25/95	DW	
Acetone	JB2	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
1,1-Dichloroethene	J1	µg/L	1.0	1.0	EPA 8260	05/25/95	DW	
1,1-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
Total 1,2-Dichloroethene	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
1,1,1-Trichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	

* 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.

06/13/95

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LE25VLW1

340 County Road #5, PO Box 720
Westbrook, ME 04098
TEL: 207-874-2400

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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-0787-2
Report Date: 06/13/95
PO No. : 802LSOA
Project : 2960047

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SP901	Aqueous	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	05/25/95	DW	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
Trichloroethene	<2.5	µg/L	1.0	2.5	EPA 8260	05/25/95	DW	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	05/25/95	DW	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	05/25/95	DW	
Tetrachloroethene	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
Toluene	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	

* 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.

06/13/95

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LE25VLW1

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0787-2
Report Date: 06/13/95
PO No. : 802LSOA
Project : 2960047

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SP901	Aqueous	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
Total Xylenes	J1	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
Dibromofluoromethane (Surr.)	99.	%	1.0		EPA 8260	05/25/95	DW	
Toluene-d8 (Surr.)	100.	%	1.0		EPA 8260	05/25/95	DW	
p-Bromofluorobenzene (Surr.)	102.	%	1.0		EPA 8260	05/25/95	DW	

* 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.

06/13/95

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LE25VLW1

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.:	S9SW012
Matrix (soil/water)	Water	Lab Sample ID:	S9SP901
Sample wt/vol:	5 (g/ml) ml	Lab File ID:	F1611.D
Level: (low/med)	low	Date Received:	5/19/95
% Moisture: not dec.	N/A	Date Analyzed:	5/25/95
GC Column:	RTX-624 ID: 0.18	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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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0786-9
Report Date: 06/16/95
PO No. : 802SLOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SD901	Solid	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Volatile Organics by EPA 8260								1,2,3,4
Chloromethane	<6.5	µg/kgdrywt	1.3	5.0	EPA 8260	05/26/95	DW	
Bromomethane	<6.5	µg/kgdrywt	1.3	5.0	EPA 8260	05/26/95	DW	
Vinyl chloride	<2.6	µg/kgdrywt	1.3	2.0	EPA 8260	05/26/95	DW	
Chloroethane	<2.6	µg/kgdrywt	1.3	2.0	EPA 8260	05/26/95	DW	
Methylene chloride	B36	µg/kgdrywt	1.3	3.0	EPA 8260	05/26/95	DW	
Acetone	180.	µg/kgdrywt	1.3	5.0	EPA 8260	05/26/95	DW	
Carbon disulfide	8.	µg/kgdrywt	1.3	5.0	EPA 8260	05/26/95	DW	
1,1-Dichloroethene	<1.3	µg/kgdrywt	1.3	1.0	EPA 8260	05/26/95	DW	
1,1-Dichloroethane	<2.6	µg/kgdrywt	1.3	2.0	EPA 8260	05/26/95	DW	
Total 1,2-Dichloroethene	<2.6	µg/kgdrywt	1.3	2.0	EPA 8260	05/26/95	DW	
Chloroform	<6.5	µg/kgdrywt	1.3	5.0	EPA 8260	05/26/95	DW	
1,2-Dichloroethane	<2.6	µg/kgdrywt	1.3	2.0	EPA 8260	05/26/95	DW	

* 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) "$" flag denotes surrogate compound recovery is out of criteria. Re-extraction or re-analysis confirmed matrix interference.

(4) Internal standard area(s) are out of criteria. Reanalysis confirmed matrix interference.

06/16/95

LJO/jcbeaw/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-0786-9
Report Date: 06/16/95
PO No. : 802SLOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SD901	Solid	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
2-Butanone	24.	µg/kgdrywt	1.3	5.0	EPA 8260	05/26/95	DW	
1,1,1-Trichloroethane	<2.6	µg/kgdrywt	1.3	2.0	EPA 8260	05/26/95	DW	
Carbon tetrachloride	<6.5	µg/kgdrywt	1.3	5.0	EPA 8260	05/26/95	DW	
Bromodichloromethane	<6.5	µg/kgdrywt	1.3	5.0	EPA 8260	05/26/95	DW	
1,2-Dichloropropane	<3.3	µg/kgdrywt	1.3	2.5	EPA 8260	05/26/95	DW	
cis-1,3-Dichloropropene	<6.5	µg/kgdrywt	1.3	5.0	EPA 8260	05/26/95	DW	
Trichloroethene	<3.3	µg/kgdrywt	1.3	2.5	EPA 8260	05/26/95	DW	
Dibromochloromethane	<6.5	µg/kgdrywt	1.3	5.0	EPA 8260	05/26/95	DW	
1,1,2-Trichloroethane	<6.5	µg/kgdrywt	1.3	5.0	EPA 8260	05/26/95	DW	
Benzene	<2.6	µg/kgdrywt	1.3	2.0	EPA 8260	05/26/95	DW	
trans-1,3-Dichloropropene	<6.5	µg/kgdrywt	1.3	5.0	EPA 8260	05/26/95	DW	
Bromoform	<6.5	µg/kgdrywt	1.3	5.0	EPA 8260	05/26/95	DW	
4-Methyl-2-pentanone	<3.9	µg/kgdrywt	1.3	3.0	EPA 8260	05/26/95	DW	

* 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.

06/16/95

LJO/jcbeaw/gbp(dw)/sra
LE26VLS1

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0786-9
Report Date: 06/16/95
PO No. : 802SLOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SD901	Solid	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
2-Hexanone	<5.2	µg/kgdrywt	1.3	4.0	EPA 8260	05/26/95	DW	
Tetrachloroethene	<2.6	µg/kgdrywt	1.3	2.0	EPA 8260	05/26/95	DW	
1,1,2,2-Tetrachloroethane	<6.5	µg/kgdrywt	1.3	5.0	EPA 8260	05/26/95	DW	
Toluene	<2.6	µg/kgdrywt	1.3	2.0	EPA 8260	05/26/95	DW	
Chlorobenzene	<6.5	µg/kgdrywt	1.3	5.0	EPA 8260	05/26/95	DW	
Ethylbenzene	<2.6	µg/kgdrywt	1.3	2.0	EPA 8260	05/26/95	DW	
Styrene	<2.6	µg/kgdrywt	1.3	2.0	EPA 8260	05/26/95	DW	
Total Xylenes	J2.	µg/kgdrywt	1.3	2.0	EPA 8260	05/26/95	DW	
Dibromofluoromethane (Surr.)	107.	%	1.3		EPA 8260	05/26/95	DW	
Toluene-d8 (Surr.)	83.	%	1.3		EPA 8260	05/26/95	DW	
p-Bromofluorobenzene (Surr.)	$49	%	1.3		EPA 8260	05/26/95	DW	

* 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.

06/16/95

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LE26VLS1

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.: S9SD012	
Matrix (soil/water)	Soil	Lab Sample ID:	S9SD901
Sample wt/vol:	5 (g/ml) g	Lab File ID:	Y9208
Level: (low/med)	low	Date Received:	5/19/95
% Moisture: not dec.	25	Date Analyzed:	5/26/95
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/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 124389	Carbon Dioxide	2.15	110	JNB
2.	Unknown	22.31	95	J
3.	Unknown	25.10	87	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-0786-9
Report Date: 06/16/95
PO No. : 802SLOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SD901	Solid	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Volatile Organics by EPA 8260								1,2,3,4
Reanalysis								
Chloromethane	<6.5	µg/kgdrywt	1.3	5.0	EPA 8260	05/26/95	DW	
Bromomethane	<6.5	µg/kgdrywt	1.3	5.0	EPA 8260	05/26/95	DW	
Vinyl chloride	<2.6	µg/kgdrywt	1.3	2.0	EPA 8260	05/26/95	DW	
Chloroethane	<2.6	µg/kgdrywt	1.3	2.0	EPA 8260	05/26/95	DW	
Methylene chloride	B35	µg/kgdrywt	1.3	3.0	EPA 8260	05/26/95	DW	
Acetone	120.	µg/kgdrywt	1.3	5.0	EPA 8260	05/26/95	DW	
Carbon disulfide	J6.	µg/kgdrywt	1.3	5.0	EPA 8260	05/26/95	DW	
1,1-Dichloroethene	<1.3	µg/kgdrywt	1.3	1.0	EPA 8260	05/26/95	DW	
1,1-Dichloroethane	<2.6	µg/kgdrywt	1.3	2.0	EPA 8260	05/26/95	DW	
Total 1,2-Dichloroethene	<2.6	µg/kgdrywt	1.3	2.0	EPA 8260	05/26/95	DW	
Chloroform	<6.5	µg/kgdrywt	1.3	5.0	EPA 8260	05/26/95	DW	

* 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) "$" flag denotes surrogate compound recovery is out of criteria. Re-extraction or re-analysis confirmed matrix interference.

(4) Internal standard area(s) are out of criteria. Reanalysis confirmed matrix interference.

06/16/95

LJO/jcbeaw/gbp(dw)/sra
LE26VLS1

ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

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3 Washington Center
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Lab Number : WL-0786-9
Report Date: 06/16/95
PO No. : 802SLOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SD901	Solid	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
1,2-Dichloroethane	<2.6	µg/kgdrywt	1.3	2.0	EPA 8260	05/26/95	DW	
2-Butanone	<6.5	µg/kgdrywt	1.3	5.0	EPA 8260	05/26/95	DW	
1,1,1-Trichloroethane	<2.6	µg/kgdrywt	1.3	2.0	EPA 8260	05/26/95	DW	
Carbon tetrachloride	<6.5	µg/kgdrywt	1.3	5.0	EPA 8260	05/26/95	DW	
Bromodichloromethane	<6.5	µg/kgdrywt	1.3	5.0	EPA 8260	05/26/95	DW	
1,2-Dichloropropane	<3.3	µg/kgdrywt	1.3	2.5	EPA 8260	05/26/95	DW	
cis-1,3-Dichloropropene	<6.5	µg/kgdrywt	1.3	5.0	EPA 8260	05/26/95	DW	
Trichloroethene	<3.3	µg/kgdrywt	1.3	2.5	EPA 8260	05/26/95	DW	
Dibromochloromethane	<6.5	µg/kgdrywt	1.3	5.0	EPA 8260	05/26/95	DW	
1,1,2-Trichloroethane	<6.5	µg/kgdrywt	1.3	5.0	EPA 8260	05/26/95	DW	
Benzene	<2.6	µg/kgdrywt	1.3	2.0	EPA 8260	05/26/95	DW	
trans-1,3-Dichloropropene	<6.5	µg/kgdrywt	1.3	5.0	EPA 8260	05/26/95	DW	
Bromoform	<6.5	µg/kgdrywt	1.3	5.0	EPA 8260	05/26/95	DW	

* 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.

06/16/95

LJO/jcbeaw/gbp(dw)/sra
LE26VLS1

ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0786-9
Report Date: 06/16/95
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Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED	DATE RECEIVED
S9SD901	Solid	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
4-Methyl-2-pentanone	<3.9	µg/kgdrywt	1.3	3.0	EPA 8260	05/26/95	DW	
2-Hexanone	<5.2	µg/kgdrywt	1.3	4.0	EPA 8260	05/26/95	DW	
Tetrachloroethene	<2.6	µg/kgdrywt	1.3	2.0	EPA 8260	05/26/95	DW	
1,1,2,2-Tetrachloroethane	<6.5	µg/kgdrywt	1.3	5.0	EPA 8260	05/26/95	DW	
Toluene	<2.6	µg/kgdrywt	1.3	2.0	EPA 8260	05/26/95	DW	
Chlorobenzene	<6.5	µg/kgdrywt	1.3	5.0	EPA 8260	05/26/95	DW	
Ethylbenzene	<2.6	µg/kgdrywt	1.3	2.0	EPA 8260	05/26/95	DW	
Styrene	<2.6	µg/kgdrywt	1.3	2.0	EPA 8260	05/26/95	DW	
Total Xylenes	J1.	µg/kgdrywt	1.3	2.0	EPA 8260	05/26/95	DW	
Dibromofluoromethane (Surr.)	104.	%	1.3		EPA 8260	05/26/95	DW	
Toluene-d8 (Surr.)	87.	%	1.3		EPA 8260	05/26/95	DW	
p-Bromofluorobenzene (Surr.)	$53	%	1.3		EPA 8260	05/26/95	DW	

* 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.

06/16/95

LJO/jcbeaw/gbp(dw)/sra
LE26VLS1

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: PACE, INC.
SDG No.: S9SD012
Matrix (soil/water): Soil
Lab Sample ID: S9SD901RE
Sample wt/vol: 5 (g/ml) g
Lab File ID: Y9209
Level: (low/med) low
Date Received: 5/19/95
% Moisture: not dec. 25
Date Analyzed: 5/26/95
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/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 124389	Carbon Dioxide	2.15	75	JNB
2.	Unknown	22.33	15	J
3.	Unknown	25.13	16	J
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U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

S9SP901

Lab Name: PACE_ME Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: S9SW01

Matrix (soil/water): WATER Lab Sample ID: WL0787-2

Level (low/med): LOW Date Received: 05/19/95

% 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	146000			P
7440-36-0	Antimony	49.6	U	WN	F
7440-38-2	Arsenic	370			F
7440-39-3	Barium	1580		N	P
7440-41-7	Beryllium	9.1	B	N	P
7440-43-9	Cadmium	20.9	B	N	P
7440-70-2	Calcium	151000			P
7440-47-3	Chromium	348		N	P
7440-48-4	Cobalt	178	B	N	P
7440-50-8	Copper	750		EN	P
7439-89-6	Iron	1090000			P
7439-92-1	Lead	4930			F
7439-95-4	Magnesium	47800			P
7439-96-5	Manganese	6190			P
7439-97-6	Mercury	1.2			CV
7440-02-0	Nickel	374		N	P
7440-09-7	Potassium	22400	B		P
7782-49-2	Selenium	2.9	U	WN	F
7440-22-4	Silver	15.1	B	N	P
7440-23-5	Sodium	40500			P
7440-28-0	Thallium	6.3	U	WN	F
7440-62-2	Vanadium	887		N	P
7440-66-6	Zinc	5500			P
5712-5	Cyanide	2.6	U		C

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

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1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

S9SD901

b Name: PACE_ME Contract: _____

b Code: _____ Case No.: _____ SAS No.: _____ SDG No.: S9SD12

trix (soil/water): SOIL_ Lab Sample ID: WL0786-9

vel (low/med): LOW__ Date Received: 05/19/95

Solids: _75.3

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3850		E	P
7440-36-0	Antimony	0.32	U	N	F
7440-38-2	Arsenic	1.7	B		F
7440-39-3	Barium	9.3	B	E	P
7440-41-7	Beryllium	0.09	U		P
7440-43-9	Cadmium	0.39	U		P
7440-70-2	Calcium	462	B	E	P
7440-47-3	Chromium	4.7			P
7440-48-4	Cobalt	3.0	U		P
7440-50-8	Copper	2.9	B		P
7439-89-6	Iron	4680			P
7439-92-1	Lead	2.8			F
7439-95-4	Magnesium	1040		E	P
7439-96-5	Manganese	54.3		E	P
7439-97-6	Mercury	0.02	U		CV
7440-02-0	Nickel	4.6	U		P
7440-09-7	Potassium	447	B		P
7782-49-2	Selenium	0.06	U		F
7440-22-4	Silver	0.87	U		P
7440-23-5	Sodium	59.1	B		P
7440-28-0	Thallium	0.06	U		F
7440-62-2	Vanadium	8.1			P
7440-66-6	Zinc	9.9			P
5712-5	Cyanide	0.16	U		C

lor Before: _____ Clarity Before: _____ Texture: _____

lor After: _____ Clarity After: _____ Artifacts: _____

mments:

FORM I - IN 3/90

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-0787-10
Report Date: 06/13/95
PO No. : 802LSOA
Project : 2960047

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9RB001	Aqueous	J. NEWMAN	05/17/95	05/19/95

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	05/26/95	DW	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	05/26/95	DW	
Vinyl chloride	<2.	µg/L	1.0	2.0	EPA 8260	05/26/95	DW	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	05/26/95	DW	
Methylene chloride	JB2	µg/L	1.0	3.0	EPA 8260	05/26/95	DW	
Acetone	B25	µg/L	1.0	5.0	EPA 8260	05/26/95	DW	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	05/26/95	DW	
1,1-Dichloroethene	<1.	µg/L	1.0	1.0	EPA 8260	05/26/95	DW	
1,1-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	05/26/95	DW	
Total 1,2-Dichloroethene	<2.	µg/L	1.0	2.0	EPA 8260	05/26/95	DW	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	05/26/95	DW	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	05/26/95	DW	
2-Butanone	JB4	µg/L	1.0	5.0	EPA 8260	05/26/95	DW	
1,1,1-Trichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	05/26/95	DW	

* 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.

06/13/95

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Westbrook, ME 04098
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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-0787-10
Report Date: 06/13/95
PO No. : 802LSOA
Project : 2960047

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9RB001	Aqueous	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	05/26/95	DW	
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	05/26/95	DW	
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	05/26/95	DW	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	05/26/95	DW	
Trichloroethene	<2.5	µg/L	1.0	2.5	EPA 8260	05/26/95	DW	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	05/26/95	DW	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	05/26/95	DW	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	05/26/95	DW	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	05/26/95	DW	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	05/26/95	DW	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	05/26/95	DW	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	05/26/95	DW	
Tetrachloroethene	<2.	µg/L	1.0	2.0	EPA 8260	05/26/95	DW	
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	05/26/95	DW	
Toluene	4.	µg/L	1.0	2.0	EPA 8260	05/26/95	DW	

* 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.

06/13/95

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pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0787-10
Report Date: 06/13/95
PO No. : 802LSOA
Project : 2960047

CLIENT: MIKE BATTLE
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9RB001	Aqueous	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	05/26/95	DW	
Ethylbenzene	J2	µg/L	1.0	2.0	EPA 8260	05/26/95	DW	
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	05/26/95	DW	
Total Xylenes	11.	µg/L	1.0	2.0	EPA 8260	05/26/95	DW	
Dibromofluoromethane (Surr.)	102.	%	1.0		EPA 8260	05/26/95	DW	
Toluene-d8 (Surr.)	98.	%	1.0		EPA 8260	05/26/95	DW	
p-Bromofluorobenzene (Surr.)	94.	%	1.0		EPA 8260	05/26/95	DW	

* 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.

06/13/95

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Respectfully submitted,
PACE, INC.
Laura J. O'Meara
Laura J. O'Meara
Supervisor, Client Services

340 County Road #5, PO Box 720
Westbrook, ME 04098
TEL: 207-874-2400

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1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.:	S9SW012
Matrix (soil/water)	Water	Lab Sample ID:	S9RB001
Sample wt/vol:	5 (g/ml) ml	Lab File ID:	F1634.D
Level: (low/med)	low	Date Received:	5/19/95
% Moisture: not dec.	N/A	Date Analyzed:	5/26/95
GC Column:	RTX-624 ID: 0.18	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. 75-07-0	Acetaldehyde	3.75	15	JN
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U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

S9RB001

Lab Name: PACE_ME Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: S9SW01

Matrix (soil/water): WATER Lab Sample ID: WL0787-10

Level (low/med): LOW Date Received: 05/19/95

% 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	44.0	B		P
7440-36-0	Antimony	2.7	U	N	F
7440-38-2	Arsenic	1.7	B		F
7440-39-3	Barium	1.0	U	N	P
7440-41-7	Beryllium	0.30	U	N	P
7440-43-9	Cadmium	1.2	U	N	P
7440-70-2	Calcium	19.4	B		P
7440-47-3	Chromium	2.4	U	N	P
7440-48-4	Cobalt	2.1	U	N	P
7440-50-8	Copper	2.9	U	EN	P
7439-89-6	Iron	20.4	B		P
7439-92-1	Lead	0.72	U		F
7439-95-4	Magnesium	22.2	U		P
7439-96-5	Manganese	0.50	U		P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	7.2	U	N	P
7440-09-7	Potassium	336	U		P
7782-49-2	Selenium	0.63	U	N	F
7440-22-4	Silver	2.0	U	N	P
7440-23-5	Sodium	35.9	B		P
7440-28-0	Thallium	0.69	U	N	F
7440-62-2	Vanadium	2.4	U	N	P
7440-66-6	Zinc	5.6	B		P
5712-5	Cyanide	2.6	U		C

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0785-11
Report Date: 06/13/95
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
S9TB001	Aqueous	J. NEWMAN	05/17/95	05/19/95

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	05/25/95	DW	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
Vinyl chloride	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
Methylene chloride	B3	µg/L	1.0	3.0	EPA 8260	05/25/95	DW	
Acetone	B6	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
1,1-Dichloroethene	<1.	µg/L	1.0	1.0	EPA 8260	05/25/95	DW	
1,1-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
Total 1,2-Dichloroethene	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
1,1,1-Trichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	

* 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.

06/13/95

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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-0785-11
Report Date: 06/13/95
PO No. : 802LSCA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9TB001	Aqueous	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	05/25/95	DW	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
Trichloroethene	<2.5	µg/L	1.0	2.5	EPA 8260	05/25/95	DW	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	05/25/95	DW	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	05/25/95	DW	
Tetrachloroethene	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
Toluene	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	05/25/95	DW	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	

* 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.

06/13/95

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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-0785-11
Report Date: 06/13/95
PO No. : 802LSOA
Project : 29600.47

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9TB001	Aqueous	J. NEWMAN	05/17/95	05/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
Total Xylenes	<2.	µg/L	1.0	2.0	EPA 8260	05/25/95	DW	
Dibromofluoromethane (Surr.)	98.	%	1.0		EPA 8260	05/25/95	DW	
Toluene-d8 (Surr.)	99.	%	1.0		EPA 8260	05/25/95	DW	
p-Bromofluorobenzene (Surr.)	100.	%	1.0		EPA 8260	05/25/95	DW	

* 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.

06/13/95

LJO/jcbeaw/gbp(dw)/sra
LE25VLW1

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name	PACE, INC.	SDG No.:	S9MW906
Matrix (soil/water)	Water	Lab Sample ID:	S9TB001
Sample wt/vol:	5 (g/ml) ml	Lab File ID:	F1605.D
Level: (low/med)	low	Date Received:	5/19/95
% Moisture: not dec.	N/A	Date Analyzed:	5/25/95
GC Column:	RTX-624 ID: 0.18	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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...ENTAL LABORATORIES

CHAIN-OF-CUSTODY RECORD
Analytical Request

...EA
...ess Old Gurnet Rd
...Brunswick Maine 04011-5000
...e (207) 798-5977

Report To: Mike Battle
Bill To: EA Newburgh
P.O. # / Billing Reference: NTB LTMP
Project Name / No.: 29600047 T-1000

Pace Client No.
Pace Project Manager
Pace Project No.
*Requested Due Date:

...pled By (PRINT): John Newman
...pler Signature: John Newman
Date Sampled: 5/17/95
Bart Wiemling

SAMPLE DESCRIPTION	TIME	MATRIX	PACE NO.	NO. OF CONTAINERS	PRESERVATIVES: UNPRESERVED	H_2SO_4	HNO_3	VOA			ANALYSES REQUEST: VOC's 8260	METALS	CN	SVOC's 8270			REMARKS
BN-02-S9-LT901 ms/msd	1545	H_2O		10		✓	✓	✓			✓	✓	✓				VOA by 8260 Plus library search
BN-02-S9-SD901 ms/msd (Inorganics)	1545	Sediment	9	4	✓						✓	✓	✓	S9SD01			Metals and CN
																	Refer to 7-1 in QAPP for method

COOLER NOS.	BAILERS	SHIPMENT METHOD: OUT DATE	RETURNED DATE	ITEM NUMBER	RELINQUISHED BY / AFFILIATION	ACCEPTED BY / AFFILIATION	DATE	TIME
					John Newman / EA	Laura J O'Maria / PACE	05/19/95	0900
						[illegible]	05/19/95	0945

...tional Comments
...ge 2 of 2
...clude the Sediment sample with
...DG BN02-S9SD-012
...& the aqueous sample with SDG BN-02-S9SW-012
...Cooler Temp 3.5, 4.2, 4.4, 4.1

SEE REVERSE SIDE FOR INSTRUCTIONS

...IGINAL

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