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Final Report

Quarterly Monitoring Event 3 - August 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

Prepared by

EA Engineering, Science, and Technology
The Maple Building
3 Washington Center
Newburgh, New York 12550

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Michael S. Battle 11-29-95

Michael S. Battle, P.G. — Date
CTO Manager

C W Houlik 11-29-95

Charles W. Houlik, Jr., Ph.D., CPG — Date
Program Manager

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QUALITY REVIEW STATEMENT

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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.

Senior Technical Reviewer(s)

Gloria D. McCleary 11/29/95

Gloria D. McCleary, P.E., Senior Engineer — Date

Maine P.E. Registration No. 4885

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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 Method Detection Limit Study for EPA Method 8260 was received from EPA Region I on 10 May 1995. Approval of the use of trace inductively coupled plasma methodologies for Target Analyte List (TAL) metals, except mercury and cyanide, was obtained from EPA Region I on 25 August 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 implemented 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 2 August 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 on 17 August 1995, in accordance with the general methodologies established in the LTMP (ABB-ES 1994). Previously installed dedicated Grundfos Redi-Flo2 stainless steel and Teflon® submersible pumping systems were utilized for sample collection. Ground-water samples were collected from 9 wells during the August 1995 sampling event using the low flow sampling technique. Table 1 provides a summary of the wells included in the ground-water sampling program. Appendix A provides a detailed summary of the protocol followed during the 17 August 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). During this sampling event, 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 9 wells reached equilibrium of the water quality indicator parameters prior to sampling. Turbidity at well MW-NASB-079 stabilized at 16 NTU; turbidity measurements at remaining wells stabilized at or below 10 NTU. 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 9 ground-water samples (Table 1) were also collected for analysis of TAL elements, including metals by trace inductively coupled plasma (EPA Method 6010), mercury by cold vapor atomic adsorption (EPA Method 7470), and cyanide by EPA Method 9010. 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 during the period of 16-17 August 1995, in accordance with the general methodologies established in the LTMP (ABB-ES 1994). Surface water and sediment samples were collected from 6 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 August 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 (EPA 6010), mercury by EPA 7470, and cyanide by EPA 9010. Five of 6 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 31 August 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.
- Inspection of the stream channel for evidence of additional seeps.

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 creek. 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 and the riser is at an angle). Additionally, 8 of the 13 wells were not labeled, including MW-NASB-069, MW-NASB-071, and MW-NASB-075 through MW-NASB-080. 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 August 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). A revised sample tracking system was employed during the August sampling event to improve the data quality review process. 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 blanks 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.

- **Source Water Blanks**—A sample of the source water used for decontamination of sampling equipment was collected and analyzed for TCL VOC, TCL SVOC, 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, MS 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 rinse blanks
- Field duplicate sample results
- MS/MSD results
- MS 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 2 August 1995 during the third 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 2 August 1995 in accordance with the LTMP (ABB-ES 1995). Depth to ground water at Site 9 ranged from 2.91 ft below top of well riser (MW-NASB-071) to 17.83 ft below top of well riser (MW-NASB-077). Water table elevations recorded on 2 August 1995 in site wells ranged from 39.58 ft above mean sea level (MW-NASB-072) to 46.86 ft above MSL (MW-NASB-081).

Based on the water table elevation data, shallow overburden ground-water flow reflects land surface topography of the site area. The dominant direction of ground-water flow beneath the site is to the south-southwest; although significant variations occur in the vicinity of the streams to the south of Neptune Drive (i.e., MW-NASB-073, MW-NASB-077, and MW-NASB-078). Figure 4 provides the interpreted ground-water flow direction for the subject site.

The average hydraulic gradient across the subject site was calculated according to the following equation (Driscoll 1986):

$$I = (h_1 - h_2)/L$$

where

I	=	Hydraulic gradient (ft/ft)
$h_1 - h_2$	=	Difference in hydraulic head between locations h_1 and h_2 (ft)
L	=	Distance along flowpath between locations h_1 and h_2 (ft).

The hydraulic gradient across the subject site is characterized as shallow at 1.1 percent (0.011 ft per ft), with a vertical decrease of 6 ft in the water table elevation between wells MW-NASB-081 and MW-NASB-074 occurring over a normalized horizontal distance of 540 ft (i.e., as measured parallel to ground-water flow).

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 samples, and surface water and leachate seep samples, respectively.

In general, the pH, dissolved oxygen, 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 5.89 units (MW-NASB-076) to 6.94 units (MW-NASB-080), with pH measurements averaging 6.44 units. Dissolved oxygen concentrations ranged from 0.92 mg/L (MW-NASB-069) to 1.44 mg/L (MW-NASB-071). Turbidity measured in ground water purged at Site 9 ranged from 0 NTU (MW-NASB-075 and MW-NASB-076) to 16 NTU (MW-NASB-079). 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 and conductivity varied moderately (Table 3).

Surface water and leachate seep sample pH measurements ranged from 6.29 units (LT-901) to 6.81 units (SW-011). Turbidity measurements in surface water samples were found consistently below 10 NTU at all locations, and ranged from 1 NTU (SW-010) to 9 NTU (SW-915). Turbidity of the leachate seep (LT-901) was recorded at 44 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 provides a summary of the tentatively identified compounds reported during this sampling event. No tentatively identified compounds (except carbon dioxide) were reported in ground-water samples. Appendix E contains the summary tables for the analyses performed.

Data generated as a result of the third quarterly sampling event indicate that 12 VOC were detected at reportable concentrations in the samples. Methylene chloride was reported in the 9 ground-water samples and trip blanks; however, this compound was also detected in the associated method blanks and is considered a laboratory artifact.

With the exception of methylene chloride, VOC were reported in 7 of 9 monitoring wells sampled during the August 1995 sampling event. No reportable concentrations of VOC were detected in MW-NASB-069 and MW-NASB-071. Detected VOC in remaining samples ranged from a single compound (MW-NASB-079) to 5 VOC (MW-NASB-080).

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-076 do not require analysis of TAL elements as part of this LTMP. Two of three analytes of concern were reported in the samples collected.

5.3 SURFACE WATER

Table 6 provides a summary of the VOC detected in surface water samples collected at Site 9; Appendix D provides a summary of the tentatively identified compounds reported during this sampling event. No tentatively identified compounds were reported in surface water samples. Appendix E contains the summary tables for the analyses performed.

Data generated as a result of the third quarterly sampling event indicate that 7 VOC were detected in the samples. Two of the 7 VOC (methylene chloride and acetone) were reported in the 6 surface water samples and the associated method blanks. Based on the presence of these compounds in associated method blanks, the VOC are considered laboratory artifacts and not representative of surface water quality. Two VOC (2-butanone and 1,2-dichloroethane) were reported at trace concentrations in the trip, source water, and equipment rinsate blanks; however, these compounds were not reported in any of the surface water samples and may be laboratory or field contaminants. The remaining 5 VOC reported in the surface water samples included fuel related hydrocarbons (toluene, and total xylenes), 1,1,1-trichloroethane, trichloroethene, and total 1,2-dichloroethene.

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. Appendix E contains the summary tables for the analyses performed. Sample locations are provided in Figure 2.

Data generated as a result of the third quarterly sampling event indicate that 9 VOC were detected in the 6 sediment samples, though 3 of 9 VOC are suspected laboratory contaminants. Methylene chloride and acetone were reported in the 6 sediment samples, and the equipment rinse blank; however, these compounds were reported in the their associated method blanks. The compound 2-butanone was reported in 3 of 6 samples, however, this compound was also reported in the associated method blanks and may be a field or laboratory contaminant.

Analyses completed for the presence of SVOC indicates reportable concentrations of 22 SVOC in 4 of 5 sediment samples (Table 7). No SVOC were reported in SED-011. Of the detected SVOC, a majority of the compounds (18) were PAH. The highest concentration of PAH was detected at SED-919 (247,200 μg/kg). Concentrations of PAH in the remaining 3 sediment samples ranged from non-detect (SED-011 and SED-915) to 23,280 μg/kg (SED-010). Carbazole was reported in 3 of 5 samples (SED-010, SED-012, and SED-919), ranging in concentration from 59J μg/kg (SED-012) to 4,800 μg/kg (SED-919). Dibenzofuran was reported in 2 of 5 sediment samples, at concentrations of 230J μg/kg (SED-010) and 3,700 μg/kg (SED-919). Di-n-butylphalate was reported in 1 of 5 sediment samples (SED-919) at a concentration of 52J μg/kg. Bis(2-ethylhexyl)phalate was reported in 4 of 5 sediment samples (SED-101, SED-012, SED-915, and SED-919), and the equipment rinsate blank at concentrations ranging from 99J μg/kg (SED-915) to 4,400 μg/kg (SED-919), and 3J μg/L (QS-004), respectively.

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. No tentatively identified compounds were reported in the leachate seep and sediment samples. 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 third quarterly sampling event indicate that 8 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, trip blank, and source water blank; this compound was also detected in the associated method blanks and is a common laboratory artifact. Acetone was reported at low concentrations in the leachate seep and sediment samples, and the equipment rinse blanks. However, this compound was also reported in the associated method blank and is a common laboratory contaminant. Toluene was reported at 1J μg/L in the equipment rinse blank associated with LT-901 (SED); and total xylenes were reported in the source water blank at a trace concentration of 1J μg/L , neither of these compounds were reported in the leachate seep and sediment samples.

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 higher concentrations in the sediment sample associated with the leachate. Three metals were also reported in the equipment rinse blank associated with the leachate seep sample at concentrations below the Contract Required Detection Limit; one of these, barium, was also reported in the source water used in the decontamination sequence at a similar concentration. Zinc was also reported in the source water blank at a concentration of 9.7 μg/L. Cyanide was not reported in the leachate seep and sediment samples; however, three contaminants of concern were reported in the leachate station sediment samples.

6. SUMMARY AND CONCLUSIONS

Long-term monitoring activities were conducted during the third quarterly monitoring event as specified in the LTMP (ABB-ES 1995), 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 and an un-level riser pipe. 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 creek. Additionally, 8 of the 13 wells were not labeled, including MW-NASB-069, MW-NASB-071, and MW-NASB-075 through MW-NASB-081. No other observations were noted.

Depth to water in the 13 site wells ranged from 2.91 ft below top of well riser (MW-NASB-071) to 17.83 ft below top of well riser (MW-NASB-077) during the 2 August 1995 gauging event. Depth to water in remaining wells ranged from 9.02 ft below top of well riser (MW-NASB-073) to 14.08 ft below top of well riser (MW-NASB-075).

Data generated during the third quarterly event indicate that 12 VOC were detected in site ground water. With the exception of low concentrations of methylene chloride, which was reported in the associated laboratory method blanks, no VOC were reported in the ground-water samples collected from MW-NASB-069 and MW-NASB-071. Reported concentrations of VOC were low at the remaining 7 wells. Vinyl chloride was the only compound reported above the corresponding 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 in 5 of 9 samples.

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. One of 3 analytes of concern (cadmium) was not reported in the 5 samples collected. The second analyte of concern (chromium) was detected in 4 of 5 samples at concentrations less than the Federal Maximum Contaminant Levels and State Maximum Exposure Guidelines for this analyte. The third analyte of concern, manganese, was reported above the Federal Maximum Contaminant Level of 50 μg/L in the 5 wells, and above the State Maximum Exposure Guideline of 200 μg/L in MW-NASB-071 and MW-NASB-081.

VOC analysis of the 6 surface water samples indicated the presence of 7 VOC, though 2 of the VOC (methylene chloride, acetone) were reported in associated method blanks. The 5 remaining VOC were reported at trace or low concentrations in the surface water samples.

Analysis of sediment samples reported the presence of 9 VOC in the 6 sediment samples. Methylene chloride and acetone were reported in all 6 samples, the equipment rinse blank, and the source water blank, but are considered laboratory artifacts based on its presence in corresponding method blanks. Two other detected VOC (tetrachloroethene, 2-butanone, and 1,1,2,2-tetrachloroethene) were reported in multiple samples at concentrations ranging from 1J μg/kg to 84 μg/kg; however, these compounds were also reported in associated method blanks. Remaining VOC were reported at low concentrations in SED-010 and SED-922.

Twenty-two SVOC were reported in 4 of 5 sediment samples (Table 7). A majority of the compounds (18 of 22) were PAH. The highest concentration of PAH was reported at SED-919 (247,200 μg/kg). No SVOC were reported in SED-010. Concentrations of PAH in the remaining 3 sediment samples ranged from non-detect (SED-011) to 23,280 μg/kg (SED-010).

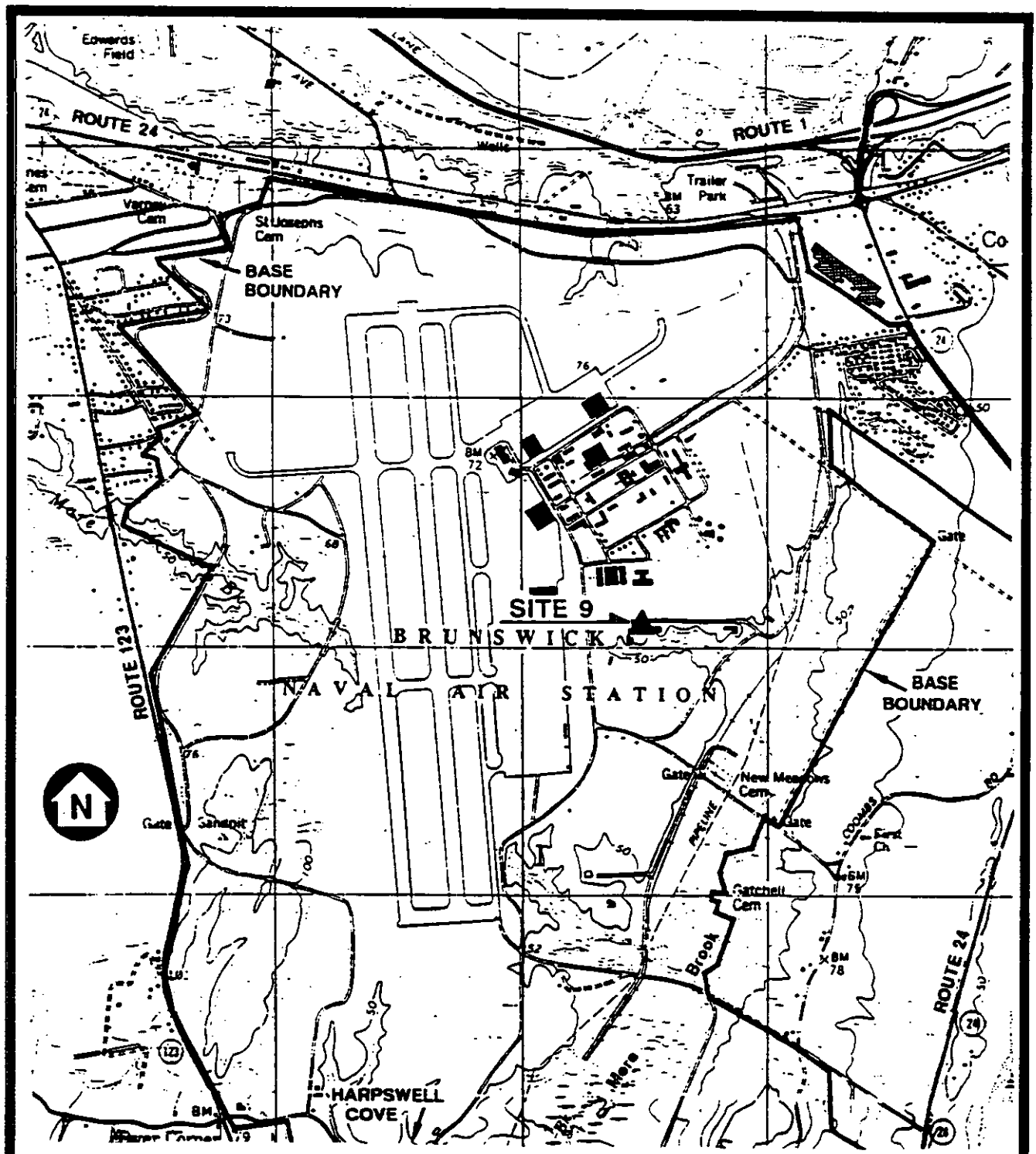
Analysis of the leachate seep and sediment samples confirmed the presence of 8 VOC in these samples, though 2 VOC (methylene chloride and acetone) were attributed to laboratory contamination. The remaining VOC, including 2-butanone, 1,1-dichloroethene, 1,1,1-trichloroethane, trichloroethene, tetrachloroethene, and carbon disulfide, were reported at low concentrations in the leachate seep and/or sediment samples collected at LT-901.

Seventeen TAL elements were reported in the leachate seep and sediment samples, including elevated concentrations of aluminum, calcium, iron, lead, magnesium, manganese, potassium, sodium, and zinc. The three contaminants of concern (arsenic, chromium, and lead) were reported in the samples as follows:

- Arsenic which was reported in the leachate station sediment sample at a concentration of 2.2 mg/kg.

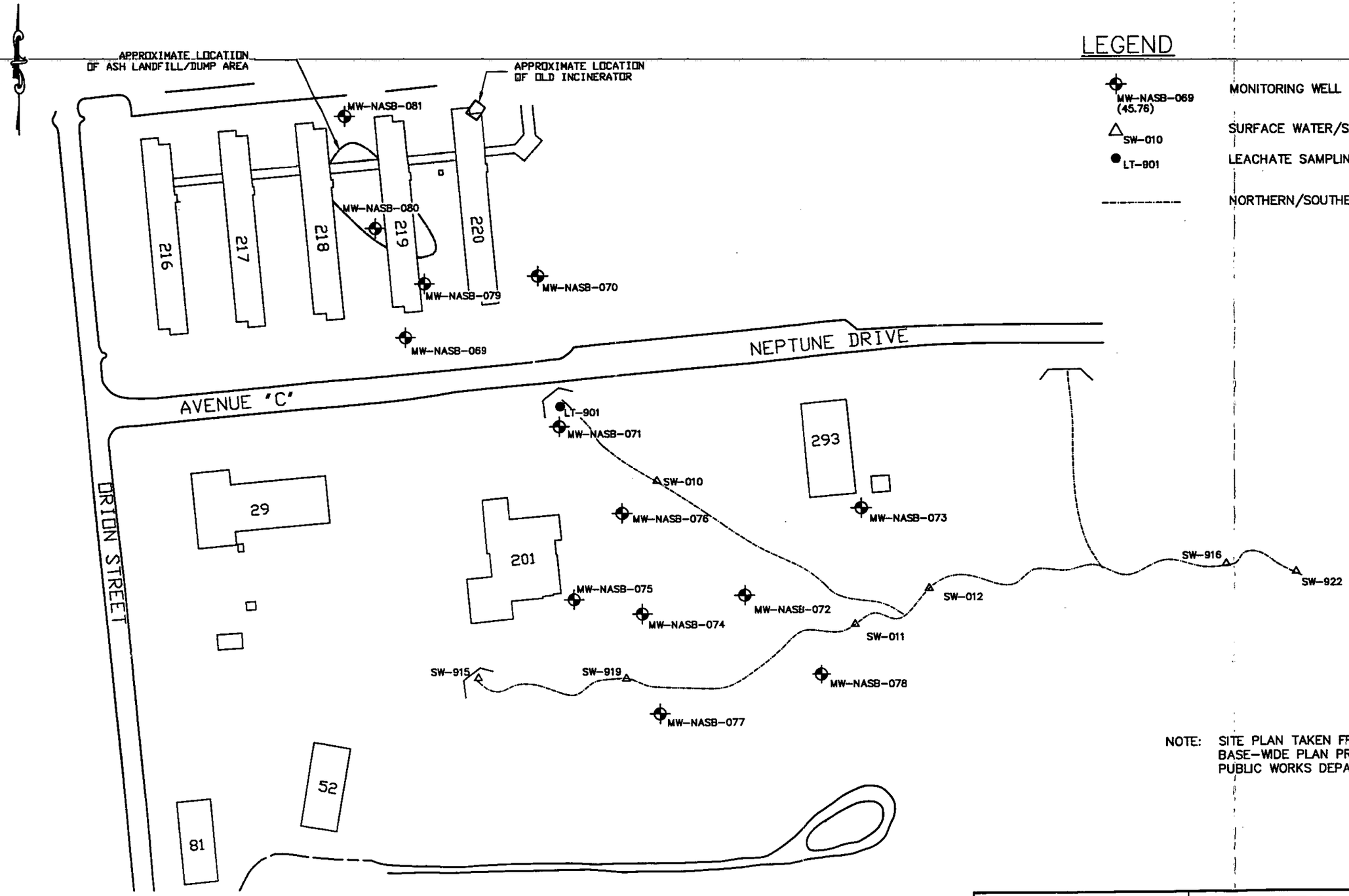
- Chromium which was reported in the leachate station sediment sample at a concentration of 7.4 mg/kg and in the leachate seep sample at a concentration of 1.4B μg/L.

- Lead which was reported in the leachate station sediment sample at a concentration of 39.3 mg/kg and in the leachate seep sample at a concentration of 13.2 μg/L.



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.



LEGEND

MW-NASB-069 (45.76)	MONITORING WELL
SW-010	SURFACE WATER/SEDIMENT SAMPLING LOCATION
LT-901	LEACHATE SAMPLING STATION
----------	NORTHERN/SOUTHERN UNNAMED STREAM PROFILE

NOTE: SITE PLAN TAKEN FROM THE INTEGRAPH VERSION 5 BASE-WIDE PLAN PROVIDED BY NAS BRUNSWICK PUBLIC WORKS DEPARTMENT ON 13 OCTOBER 1995.

120' 0 120'

APPROXIMATE SCALE

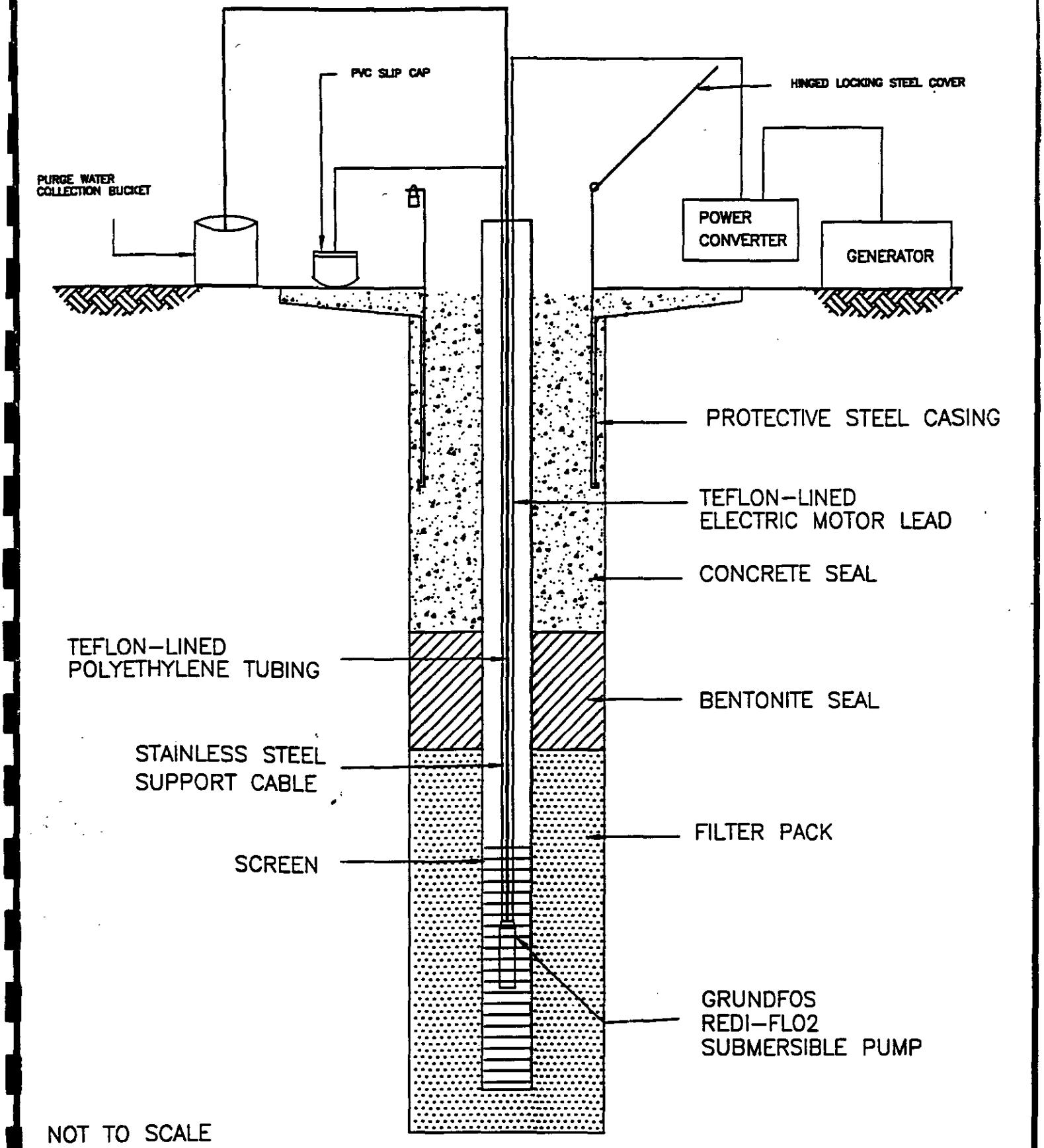
DWG. FILE No. F:\CAD\29600\47\SITE-9

EA ENGINEERING, SCIENCE, AND TECHNOLOGY

SITE 9
(NEPTUNE DRIVE DISPOSAL SITE)
NAVAL AIR STATION
BRUNSWICK, MAINE

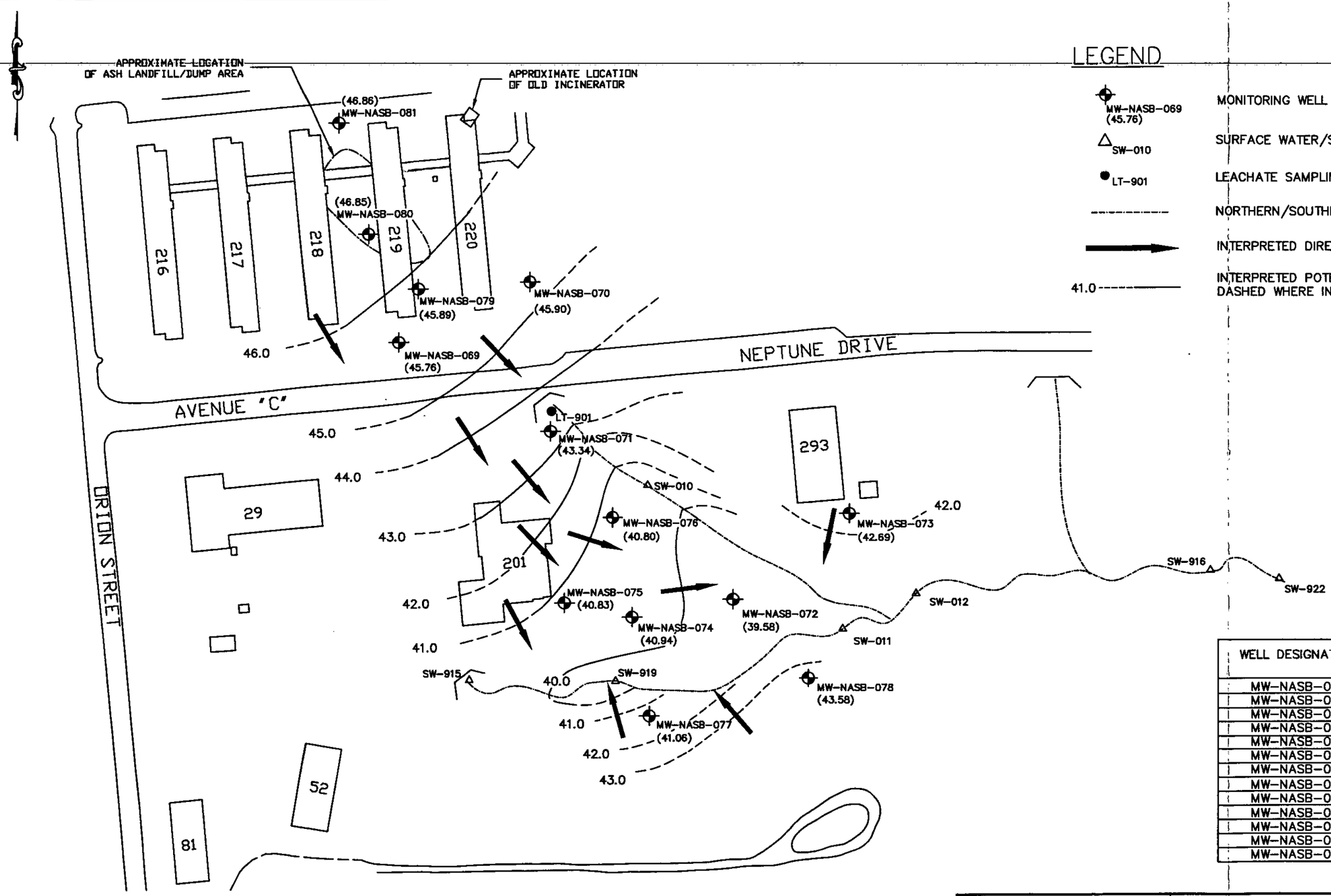
FIGURE 2
SITE PLAN

PROJECT MGR	DESIGNED BY	DRAWN BY	CHECKED BY	SCALE	DATE	PROJECT NO	FILE No.
MSB		SY	MSB	1"=120'	23 OCT 95	29600.47	SITE-9



DWG. FILE No. F:\CAD\AGWELL

EA ENGINEERING, SCIENCE, AND TECHNOLOGY			SCHEMATIC OF GENERALIZED INSTALLATION OF DEDICATED SUBMERSIBLE PUMP SYSTEM IN A MONITORING WELL			FIGURE 3	
PROJECT MGR	DESIGNED BY	DRAWN BY	CHECKED BY	SCALE	DATE	PROJECT NO	FILE No.
MSB		SY		N.T.S.	26 JUNE 1995	29600.47	PUMP



LEGEND

MW-NASB-069 (45.76)	MONITORING WELL (WATER TABLE ELEVATION, FT. MSL.)
SW-010	SURFACE WATER/SEDIMENT SAMPLING LOCATION
LT-901	LEACHATE SAMPLING STATION
	NORTHERN/SOUTHERN UNNAMED STREAM PROFILE
	INTERPRETED DIRECTION OF GROUND-WATER FLOW
41.0	INTERPRETED POTENTIOMETRIC SURFACE DASHED WHERE INFERRED (CONTOUR INTERVAL = 1.0 FT)

WELL DESIGNATION	WELL RISER ELEVATION (ft MSL)
MW-NASB-069	57.30
MW-NASB-070	58.26
MW-NASB-071	46.25
MW-NASB-072	49.81
MW-NASB-073	51.71
MW-NASB-074	51.68
MW-NASB-075	54.91
MW-NASB-076	52.79
MW-NASB-077	58.89
MW-NASB-078	53.74
MW-NASB-079	58.15
MW-NASB-080	58.51
MW-NASB-081	58.22

DWG. FILE No. F:\CAD\29600\47\SITE-9

EA ENGINEERING, SCIENCE, AND TECHNOLOGY

SITE 9
(NEPTUNE DRIVE DISPOSAL SITE)
NAVAL AIR STATION
BRUNSWICK, MAINE

FIGURE 4
INTERPRETED WATER TABLE ELEVATIONS, 2 AUGUST 1995 WELL GAUGING DATA

PROJECT MGR	DESIGNED BY	DRAWN BY	CHECKED BY	SCALE	DATE	PROJECT NO	FILE No.
MSB		SY	MSB	1"=120'	23 OCT 95	29600.47	SITE-9

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; VOC = 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 (2 August 1995)		
			Depth to Well Bottom (ft below top of PVC well riser)	Depth to Water (ft below top of PVC well riser)	Water Table Elevation (ft MSL)
Monitoring Wells					
MW-NASB-069	MW-901	57.30	42.42	11.54	45.76
MW-NASB-070	MW-902	58.26	27.32	12.36	45.90
MW-NASB-071	MW-903	46.25	21.54	2.91	43.34
MW-NASB-072	MW-904	49.81	14.63	10.23	39.58
MW-NASB-073	MW-905	51.71	32.12	9.02	42.69
MW-NASB-074	MW-906	51.68	27.12	10.74	40.94
MW-NASB-075	MW-907	54.91	21.22	14.08	40.83
MW-NASB-076	MW-908	52.79	19.94	11.99	40.80
MW-NASB-077	MW-909	58.89	37.29	17.83	41.06
MW-NASB-078	MW-910	53.74	14.93	10.19	43.58
MW-NASB-079	MW-914	58.15	18.92	12.26	45.89
MW-NASB-080	MW-915	58.51	19.04	11.66	46.85
MW-NASB-081	MW-916	58.22	18.85	11.36	46.86

NOTE: MSL = Mean sea level.

TABLE 3 SUMMARY OF WATER QUALITY INDICATOR PARAMETERS MEASURED IN GROUND-WATER SAMPLES COLLECTED 17 AUGUST 1995 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	6.36	17.8	224	0.92	3
MW-NASB-071	MW-903	6.24	14.9	288	1.44	10
MW-NASB-072	MW-904	6.20	13.6	313	1.05	1
MW-NASB-074	MW-906	6.42	14.0	271	1.08	2
MW-NASB-075	MW-907	6.37	17.3	346	1.12	0
MW-NASB-076	MW-908	5.89	17.6	319	1.38	0
MW-NASB-079	MW-914	6.84	23.4	216	1.38	16
MW-NASB-080	MW-915	6.94	26.7	460	1.35	5
MW-NASB-081	MW-916	6.71	20.4	640	0.99	3

NOTE: NTU = Nephelometric turbidity unit.

TABLE 4 SUMMARY OF WATER QUALITY INDICATOR PARAMETERS MEASURED IN SURFACE WATER AND LEACHATE SEEP SAMPLES COLLECTED 16 AUGUST 1995 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	6.37	18.6	299	4.00	1
SW-011	6.81	17.0	240	4.71	7
SW-012	6.74	16.8	238	5.44	3
SW-915	6.74	16.2	247	5.21	9
SW-919	6.70	17.1	241	4.68	5
SW-922	6.61	17.8	237	5.27	3
Leachate Seep					
LT-901	6.29	19.4	422	0.95	44

NOTE: NTU = Nephelometric turbidity unit.

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

Analyte	CRQL[a]/ CRDL	MW-NASB -069	MW-NASB -071	MW-NASB -072	MW-NASB -074	MW-NASB -075	MW-NASB -076	MW-NASB -079	MW-NASB -080	MW-NASB -081	MW-NASB-081 DUP	QT-011	MEG[b]	MCL[c]
		MW-901	MW-903	MW-904	MW-906	MW-907	MW-908	MW-914	MW-915	MW-916	MW-916 DUP			
VOLATILE ORGANIC COMPOUNDS BY EPA METHOD 8260 (μg/L)														
Methylene chloride	3.0	3JBX	1JBX	2JBX	3JBX	4BX	3JBX	2JBX	1JBX	2JBX	1JBX	29B	---	5
Total 1,2-Dichloroethene	2.0	(<2U)	(<2U)	15	11	1J	(<2U)	(<2U)	1J	(<2U)	(<2U)	(<2U)	70	70
Vinyl chloride	2.0	(<2U)	(<2U)	**9**	**4**	**13**	**2**	(<2U)	**7**	(<2U)	(<2U)	(<2U)	0.15	2
1,1-Dichloroethane	2.0	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	2J	(<2U)	(<2U)	(<2U)	70	---
Ethylbenzene	2.0	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	700	700
Total xylenes	2.0	(<2U)	(<5U)	1JB	1JB	1JB	(<2U)	2JB	3B	4B	3B	(<2U)	600	10,000
Toluene	2.0	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	1J	(<2U)	1,400	1,000
Trichloroethene	2.5	(<2.5U)	(<2.5U)	1J	1J	(<2.5U)	1J	(<2.5U)	(<2.5U)	(<2.5U)	(<2.5U)	(<2.5U)	5	5
Chloroform	5.0	(<5U)	(<5U)	(<5U)	(<5U)	(<5U)	(<5U)	(<5U)	(<5U)	(<5U)	1J	1J	---	100
Bromoform	5.0	(<5U)	(<5U)	(<5U)	(<5U)	(<5U)	(<5U)	(<5U)	(<5U)	1J	(<5U)	(<5U)	---	100
1,2-Dichlorobenzene	2.0	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	1JB	1JB	1JB	1JB	(<2U)	600	600
1,4-Dichlorobenzene	2.0	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	3	27	75
Benzene	2.0	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	1J	(<2U)	(<2U)	(<2U)	5	5
1,1,1-Trichloroethane	2.0	(<2U)	(<2U)	(<2U)	(<2U)	1J	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	200	200

(a) CRQL (Contract Required Quantification Limit) is representative of Practical Quantitation Level. CRDL = Contract Required Detection Limit.
(b) Maximum Exposure Guideline (MEG) obtained from State of Maine Department of Human Services Revised Maximum Exposure Guidelines, September 1992. Dashes (---) indicate no MEG applicable.
(c) Maximum Contaminant Level (MCL) obtained from 40 CFR Parts 141 and 142 (U.S. EPA 1994). Dashes (—) indicate no MCL applicable.

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.
Concentrations in bold denote exceedance of MEG or MCL (primary levels).
U = Not detected. Sample quantitation limits are shown as (<____U).
J = Estimated concentration below detection limit.
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.
QT = Trip blank.
X = Analyte detected in associated trip blank.

Analyte	CRQL[a]/ CRDL	MW-NASB -069	MW-NASB -071	MW-NASB -072	MW-NASB -074	MW-NASB -075	MW-NASB -076	MW-NASB -079	MW-NASB -080	MW-NASB -081	MW-NASB-081 DUP	QT-011	MEG[b]	MCL[c]
		MW-901	MW-903	MW-904	MW-906	MW-907	MW-908	MW-914	MW-915	MW-916	MW-916 DUP			
TARGET ANALYTE LIST ELEMENTS BY EPA METHOD SW 846														
Aluminum	200.0	NR	89.1B*	17.5B*	NR	NR	NR	48.1B*	76.5B*	17.1B*	(<14.5U)	NR	1,430	50-200[d]
Barium	200.0	NR	11.0B*	16.0B*	NR	NR	NR	232	640	68.5B*	67.8B*	NR	1,500	2,000
Cadmium	5.0	NR	(<3.0U)	(<3.0U)	NR	NR	NR	(<3.0U)	(<3.0U)	(<3.0U)	(<3.0U)	NR	5	5
Calcium	5,000.00	NR	11,000	22,900	NR	NR	NR	26,100	59,800	39,400	40,300	NR	---	---
Chromium	10.0	NR	(<0.54U)	2.4B*	NR	NR	NR	1.4B*	1.6B*	3.1B*	1.9B*	NR	100	100
Cobalt	50.0	NR	(<0.61U)	(<0.61U)	NR	NR	NR	(<0.61U)	(<0.61U)	4.9B*	5.2B*	NR	---	---
Copper	25.0	NR	(<1.1U)	(<1.1U)	NR	NR	NR	(<1.1U)	(<1.1U)	4.3B*	3.4B*	NR	---	1,300[e]
Iron	100.0	NR	5,720	19.0B*	NR	NR	NR	15,200	4,760	111	83.5B*	NR	---	300[d]
Magnesium	5,000.0	NR	6,130	5,750	NR	NR	NR	1,690B*	4,350B*	2,780B*	2,810B*	NR	---	---
Manganese	15.0	NR	**367**	189	NR	NR	NR	107	**424**	**1,070**	**1,050**	NR	200	50[d]
Nickel	40.0	NR	2.2B*	1.9B*	NR	NR	NR	1.3B*	1.6B*	4.8B*	4.0B*	NR	100	100
Potassium	5,000.0	NR	2,000B*	2,040B*	NR	NR	NR	2,450B*	7,580	6,520	6,330	NR	---	---
Sodium	5,000.0	NR	26,300	29,800	NR	NR	NR	3,020B*	23,400	70,500	72,600	NR	---	---
Zinc	20.0	NR	(<19.0U)	(<19.0U)	NR	NR	NR	(<19.0U)	(<19.0U)	(<19.0U)	19.5B*	NR	—	5,000[d]
Cyanide	10.0	NR	(<2.6U)	(<2.6U)	NR	NR	NR	(<2.6U)	2.9B*	(<2.6U)	(<2.6U)	NR	154	200

(d) Secondary MCL, based on taste, odor, or color.
(e) Action level.

TABLE 6 SUMMARY OF ANALYTICAL RESULTS FOR SURFACE WATER SAMPLES COLLECTED 16 AUGUST 1995 AT SITE 9, NAVAL AIR STATION, BRUNSWICK, MAINE

Compound	CRQL[a]	SW-010	SW-011	SW-012	SW-915	SW-919	SW-919 DUP	SW-922	QT-010	QS-003	QD-001
VOLATILE ORGANIC COMPOUNDS BY EPA METHOD 8260 (μg/L)											
Acetone	5.0	2JBY	2JBY	2JBY	2JBY	2JBY	2JBY	1JBY	(<5U)	1JB	(<5U)
Methylene chloride	3.0	7XYZ	7XYZ	20BXYZ	8XYZ	7XYZ	6XYZ	1JXYZ	5B	4B	6B
Toluene	2.0	(<2U)	(<2U)	(<2U)	1J	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)
2-Butanone	5.0	(<5U)	(<5U)	(<5U)	(<5U)	(<5U)	(<5U)	(<5U)	(<5U)	1JB	(<5U)
Trichloroethene	2.5	1J	(<2.5U)	1J	(<2.5U)	1J	1J	(<2.5U)	(<2.5U)	(<2.5U)	(<2.5U)
1,2-Dichloroethane	2.0	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	1J	(<2U)	1J
1,1,1-Trichloroethane	2.0	1J	1J	3	(<2U)	(<2U)	1J	1J	(<2U)	(<2U)	(<2U)
Total 1,2-Dichloroethene	2.0	1J	(<2U)	(<2U)	(<2U)	7	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)
Total Xylenes	2.0	(<2U)	(<2U)	(<2U)	1J	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)

(a) CRQL (Contract Required Quantification Limit) 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.
- QT = Trip blank associated with those samples analyzed under a separate sample delivery group shipped the same day.
- QS = Equipment rinsate blank associated with those samples analyzed under a separate delivery group shipped the same day.
- QD = Source water blank.
- X = Analyte detected in associated trip blank.
- Y = Analyte detected in associated equipment rinsate blank.
- Z = Analyte detected in associated source water blank.

TABLE 7 SUMMARY OF ANALYTICAL RESULTS FOR SEDIMENT SAMPLES COLLECTED 16 AUGUST 1995 AT SITE 9, NAVAL AIR STATION, BRUNSWICK, MAINE

Compound	CRQL[a]	SED-010[b]	SED-011[b]	SED-012	SED-915	SED-919	SED-919 DUP	SED-922[b]	QD-001 (μg/L)	QS-004 (μg/L)	QT-010 (μg/L)
VOLATILE ORGANIC COMPOUNDS BY EPA METHOD 8260 (μg/kg)											
Acetone	5.0	4JBY	240BY	3JBY	2JBY	6JBY	19JBY	15BY	(<5U)	4JB	(<5U)
Methylene chloride	3.0	13BXYZ	18BXYZ	16BXY	7BXYZ	8BXYZ	50BXYZ	17BXYZ	6B	7B	5B
2-Butanone	5.0	(<7U)	84	(<7U)	(<7U)	3J	5JB	5JB	(<5U)	(<5U)	(<5U)
Tetrachloroethene	2.0	3JB	(<3U)	1JB	1JB	(<3U)	8JB	4B	(<2U)	(<2U)	(<2U)
1,1,2,2-Tetrachloroethane	5.0	1J	(<9U)	1JB	(<7U)	1JB	(<32U)	1J	(<5U)	(<5U)	(<5U)
Vinyl chloride	2.0	5	(<3U)	(<3U)	(<3U)	(<3U)	(<13U)	(<3U)	(<2U)	(<2U)	(<2U)
Total 1,2-Dichloroethene	2.0	19	(<3U)	(<3U)	(<3U)	(<3U)	(<13U)	(<3U)	(<2U)	(<2U)	(<2U)
Trichloroethene	2.5	7	(<4U)	(<3U)	(<3U)	(<3U)	(<16U)	1J	(<2.5U)	(<2.5U)	(<2.5U)
Toluene	2.0	1JBY	1JY	(<3U)	(<3U)	(<3U)	(<13U)	1JB	(<2U)	1J	(<2U)
Chloroform	5.0	(<7U)	(<9U)	(<7U)	(<7U)	(<32U)	(<8U)	(<5U)	(<5U)	(<5U)	(<2U)
1,2-Dichloroethane	2.0	(<3U)	(<9U)	(<3U)	(<3U)	(<3U)	(<13U)	(<3U)	(<2U)	(<2U)	1J

(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.
- U = Not detected. Sample quantitation limits are shown as (<____U).
- 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.
- QS = Equipment rinse blank.
- QT = Trip blank; samples associated with QT-010 were analyzed under a separate sample delivery group shipped the same day.
- X = Analyte detected in associated trip blank.
- Y = Analyte detected in associated equipment rinsate blank.
- Z = Analyte detected in associated source water blank.

Compound	CRQL[a]	SED-010[b]	SED-011	SED-012	SED-915	SED-919	SED-919 DUP	SED-922[b]	QD-001 (μg/L)	QS-004 (μg/L)	QT-010 (μg/L)
SEMIVOLATILE ORGANIC COMPOUNDS BY EPA METHODS 8270 (μg/kg)											
Naphthalene	330	130J	(<560U)	(<430U)	(<430U)	3,200	(<430U)	NR	NR	(<10U)	NR
Acenaphthene	330	380J	(<560U)	(<430U)	(<430U)	5,200	59J	NR	NR	(<10U)	NR
Dibenzofuran	330	230J	(<560U)	(<430U)	(<430U)	3,700	(<430U)	NR	NR	(<10U)	NR
Fluorene	330	470	(<560U)	48J	(<430U)	7,000	84J	NR	NR	(<10U)	NR
Phenanthrene	330	3,400	(<560U)	600	130J	51,000	900	NR	NR	(<10U)	NR
Anthracene	330	640	(<560U)	91J	(<430U)	8,500	200J	NR	NR	(<10U)	NR
Carbazole	330	520	(<560U)	59J	(<430U)	4,800	210J	NR	NR	(<10U)	NR
Di-n-butylphthalate	330	(<430U)	(<560U)	(<430U)	(<430U)	52J	(<430U)	NR	NR	(<10U)	NR
Fluoranthene	330	4,800	(<560U)	2,500	210J	46,000	4,100	NR	NR	(<10U)	NR
Pyrene	330	3,000	(<560U)	1,900	200J	35,000	2,900	NR	NR	(<10U)	NR
Benzo(a)anthracene	330	1,800	(<560U)	960	100J	15,000	1,400	NR	NR	(<10U)	NR
Chrysene	330	1,700	(<560U)	1,300	140J	14,000	1,600	NR	NR	(<10U)	NR
Bis(2-ethylhexyl)phthalate	330	440	(<560U)	1,100	99J	4,400	660	NR	NR	3J	NR
Benzo(b)fluoranthene	330	2,200	(<560U)	1,200	170J	16,000	1,800	NR	NR	(<10U)	NR
Benzo(k)fluoroethane	330	750	(<560U)	350J	49J	4,600	610	NR	NR	(<10U)	NR
Benzo(a)pyrene	330	1,600	(<560U)	680	120J	11,000	1,200	NR	NR	(<10U)	NR
Indeno(1,2,3-c,d)pyrene	330	1,200	(<560U)	400J	100J	8,500	790	NR	NR	(<10U)	NR
Dibenzo(a,h)anthracene	330	310J	(<560U)	98J	31J	1,800	190J	NR	NR	(<10U)	NR
Benzo(g,h,i)perylene	330	1,200	(<560U)	390J	100J	6,900	720	NR	NR	(<10U)	NR
1,4-Dichlorobenzene	330	(<430U)	(<560U)	(<430U)	(<430U)	430	(<430U)	NR	NR	(<10U)	NR
2-Methyl naphthalene	330	68J	(<560U)	(<430U)	(<430U)	5,000	(<430U)	NR	NR	(<10U)	NR
Acenaphthylene	330	(<430U)	(<560U)	(<430U)	(<430U)	(<430U)	(<430U)	NR	NR	(<10U)	NR
Butyl benzyl phthalate	330	(<430U)	(<560U)	(<430U)	(<430U)	7,000	(<430U)	NR	NR	(<10U)	NR

TABLE 8 SUMMARY OF ANALYTICAL RESULTS FOR THE LEACHATE SEEP AND SEDIMENT SAMPLES COLLECTED 16 AUGUST 1995 AT SITE 9, NAVAL AIR STATION, BRUNSWICK, MAINE

Analyte	CRQL[a]/ CRDL	LT-901 (SEEP) (μg/L)	LT-901 (SED)[b] (μg/kg	QS-003 (SEEP) (μg/L)	QS-004 (SED) (μg/L)	QT-010 (μg/L)	QD-001 (μg/L)
VOLATILE ORGANIC COMPOUNDS BY EPA METHOD SW-8260							
Methylene chloride	3.0	6XYZ	10BXYZ	4B	7B	5B	6B
Acetone	5.0	2JBY	6JBY	1JB	4JB	(<5U)	(<5U)
1,2-Dichloroethane	2.0	(<2U)	(<3U)	(<2U)	(<2U)	1J	(<2U)
2-Butanone	5.0	(<5U)	3JBY	1JB	(<5U)	(<5U)	(<5U)
1,1,1-Trichloroethane	2.0	3	(<3U)	(<2U)	(<2U)	(<2U)	(<2U)
Total xylenes	2.0	(<2U)	(<3U)	(<2U)	(<2U)	(<2U)	1J
1,1-Dichloroethene	2.0	1J	(<1U)	(<2U)	(<1U)	(<2U)	(<2U)
Carbon disulfide	5.0	2J	(<7U)	(<5U)	(<5U)	(<5U)	(<5U)
Trichloroethene	2.5	1J	(<3U)	(<2.5U)	(<2.5U)	(<2.5U)	(<2.5U)
Toluene	2.0	(<2U)	(<3U)	(<2U)	1J	(<2U)	(<2U)
Tetrachloroethene	2.0	1J	2JB	(<2U)	(<2U)	(<2U)	(<2U)

(a) CRQL (Contract Required Quantitation Limit) is representative of Practical Quantitation Level.
CRDL = Contract Required Detection Limit.
(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 (ABB-ES 1995) are shown on this table.

- U = Not detected. Sample quantitation limits are shown as (<___U).
- B = Compound detected in assocated method blank.
- NR = Analysis not required.
- B* = Analyte concentration is between the instrument detection limit and the CRDL.
- NA = Not analyzed.
- QS = Equipment rinsate blank.
- QT = Trip blank. Trip blank associated with leachate seep and sediment samples were analyzed under a separate sample delivery group shipped the same day.
- QD = Source water blank.
- X = Analyte detected in associated trip blank.
- Y = Analyte detected in associated equipment rinsate blank.
- Z = Analyte detected in associated source water blank.

Analyte	CRQL[a]/ CRDL	LT-901 (SEEP) (μg/L)	LT-901 (SED) (mg/kg)	QS-003 (SEEP) (μg/L)	QS-004 (SED) (μg/L)	QT-010 (μg/L)	QD-001 (μg/L)
TARGET ANALYTE LIST ELEMENTS BY EPA METHOD SW-846							
Aluminum	200.0	526	3,690	(<14.5U)	NA	NR	(<14.5U)
Arsenic	10.0	(<2.8U)	2.2	(<2.8U)	NA	NR	(<2.8U)
Barium	200.0	51.8B*YZ	15.6B*	1.2B*	NA	NR	0.47B*
Beryllium	5.0	(<0.12U)	0.2B*	(<0.12U)	NA	NR	(<0.12U)
Calcium	5,000.0	24,600	503	(<9.3U)	NA	NR	(<40.0U)
Chromium	10.0	1.4B*	7.4	(<0.54U)	NA	NR	(<0.54U)
Cobalt	50.0	(<0.61U)	3.2B*	(<0.61U)	NA	NR	(<0.61U)
Copper	25.0	3.4B*	6.1	(<1.1U)	NA	NR	(<1.1U)
Iron	100.0	21,700Y	6,000	44.0B*	NA	NR	(<14.3U)
Lead	3.0	13.2	39.3	(<1.6U)	NA	NR	(<1.6U)
Magnesium	5,000.0	2,610B*	320	(<11.0U)	NA	NR	(<11.0U)
Manganese	15.0	292Y	56.7	1.1B*	NA	NR	(<0.15U)
Nickel	40.0	1.4B*	6.9	(<1.0U)	NA	NR	(<1.0U)
Potassium	5,000.0	3,360B*	736	(<380U)	NA	NR	(<380U)
Sodium	5,000.0	42,600	81.08*	(<38.0U)	NA	NR	(<38.0U)
Vanadium	50.0	3.4B*	11.1	(<0.48U)	NA	NR	(<0.48U)
Zinc	20.0	28.4Z	28.3Z	(<19.0U)	NA	NR	9.7B*

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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 HC1, and check the pH. Adjust the volume of HCl to assure pH<2.

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

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

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

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

  — Place samples on ice until shipment.

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

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

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

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

A.1.6 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 HC1, and check the pH. Adjust the volume of HCl to assure pH<2.

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

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

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

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

— Place samples on ice until shipment.

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

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

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

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

A.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.

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: BNAS - Long Term Monitoring Plan	Project No: 29600.47 7200	Date: 2 August 1995
Weather/Temperature: Overcast hot humid 80s		
EA Personnel: B. Andersen, Karen Buszyk	Equipment: OVA (FID) 138 EA*1826 / Slope Indicator SN 23596	

Well No.	Labeled/ Capped	Well Locked	VOCs Concentration (ppm) Air Ambient	VOCs Concentration (ppm) Well Mouth	Casing/Seal Condition	Protective Casing Elevation (ft)	PVC Casing Elevation (ft)	Depth to Water (ft)	Measured Well Depth (ft)	Water Table Elevation (ft)
MW910	N/Y	Y	0 ppm 0	0, 0	good			10.19	14.93 ~~9.65~~ bt	
MW909	N/Y	Y	0 0	0 0	good			17.83	37.29 ~~17.25~~ bt	
MW904	Y/Y	Y	0 0	0 0	good	50.03	49.81	10.23	14.63	39.58
MW906	Y/Y	Y	0 0	0 0	good	51.85	51.68	10.74	27.12	40.94
MW907	Y/Y	Y	0 0	0 0	good	55.00	54.91	14.08	21.22	40.83
MW908	Y/Y	Y	0 0	0 0	good	52.98	52.79	11.99	19.94	40.80
MW905	Y/Y	Y	0 0	0 0	good	51.90	51.71	9.02	32.12	42.69
MW903	Y/Y	Y	0 0	0 0	good	46.93	46.25	2.91	21.54	43.34
MW902	Y/Y	Y	0 0	0 0	good	58.28	58.18	12.36	27.32	45.82
MW901	Y/Y	N	0 0	0 0	good but bent down @	57.55	57.30	11.54	42.42	45.76
MW914	N/Y	Y	0 0	0 40	good	~~No data~~ No data		12.26	18.92	
MW915	Y/Y	Y	0 0	0 0	good	~~No data~~ No data		11.66	19.04	
MW916	N/Y	Y	0 0	0 0	good			~~10.45~~	18.85	

NOTE: All measurements in feet mean sea level (MSL). Except depth to water 11.36 KR

@ Steel casing and PVC bent at angle to ground

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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.: MW 901
WELL CONDITION: good

PROJECT NUMBER: 29600.47/12200
WELL LOCK STATUS: locked
WEATHER: Sunny/warm 85°F

GAUGE DATE: 08/17/95
SOUNDING METHOD: Slope indicatn
STICK UP/DOWN (ft): 2.45'

GAUGE TIME: 1140
MEASUREMENT REF: top of pipe
WELL DIAMETER (in.): 2"

PURGE DATE: 08/17/95
PURGE METHOD: low flow
AMBIENT AIR VOCs (ppm) Start: 0 End: 0

PURGE TIME: 1203
FIELD TECHNICIAN: TC, KR
WELL MOUTH VOCs (ppm): Start: 0 End: 0

WELL VOLUME

A. WELL DEPTH (ft): 42.42
B. DEPTH TO WATER (ft): 11.65
C. LIQUID DEPTH (ft) (A-B): 30.77

D. WELL VOLUME/FT (L): .605
E. WELL VOLUME (L) (C*D): 18.62
F. THREE WELL VOLUMES (L) (E*3): 55.86

	BEGINNING	Number of Well Volumes Purged				
		1	2	3	4	5
TIME (min)	1211	1224	1237	1247		
DEPTH TO WATER (ft)	11.73	11.75	11.75	11.75		
PURGE RATE (l/min)	.4L	.4L	.4L	.4L		
VOLUME PURGED (L)	3.2L	11.6L	16.8L	20.8L		
pH	6.40	6.33	6.34	6.40		
TEMPERATURE (C)	17.7	18.0	17.4	17.8		
CONDUCTIVITY (µmhos/cm)	.223	.224	.223	.224		
DISSOLVED OXYGEN (µg/L)	1.19	0.92	0.82	0.92		
~~eh (mv)~~						
TURBIDITY (NTU)	43	17	7	3		

TOTAL QUANTITY OF WATER REMOVED (L): 23.2L

SAMPLERS: TC, KR
SAMPLING TIME (START/END): 1252/1253
SAMPLING DATE: 08/17/95
DECONTAMINATION FLUIDS USED: none
SAMPLE TYPE: Grab
SAMPLE PRESERVATIVES: 1:1 HCl
SAMPLE BOTTLE IDs: BN-03-S9-MW007
SAMPLE PARAMETERS: VOAs
COMMENTS AND OBSERVATIONS: Purgia well at lowest flow rate possible

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FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME:	S9	PROJECT NUMBER:	29600.47 Tcae
WELL I.D.:	MW 903	WELL LOCK STATUS:	Present
WELL CONDITION:	good	WEATHER:	Sunny Hot
GAUGE DATE:	3/17/95	GAUGE TIME:	1520
SOUNDING METHOD:	slope indicator	MEASUREMENT REF:	top of pipe
STICK UP/DOWN (ft):	9.80'	WELL DIAMETER (in.):	2"
PURGE DATE:	3-17-95	PURGE TIME:	1525
PURGE METHOD:	lowflow	FIELD TECHNICIAN:	TC KR
AMBIENT AIR [illegible] (ppm):	Start: 0 End: 0	WELL MOUTH VOCs (ppm):	Start: 0 End: 0

WELL VOLUME

A. WELL DEPTH (ft):	21.54	D. WELL VOLUME/FT (L):	.605
B. DEPTH TO WATER (ft):	~~21.54~~ 3.00	E. WELL VOLUME (L) (C*D):	11.22
C. LIQUID DEPTH (ft) (A-B):	18.54	F. THREE WELL VOLUMES (L) (E*3):	33.65

		Number of Well Volumes Purged				
	BEFORE PURGE	1	2	3	4	5
TIME (min)	15.28	15.36	1540	1544		
DEPTH TO WATER (ft)	3.39	3.46	3.41	3.41		
PURGE RATE (L/min)	1.2	1.2	1.2	1.2		
VOLUME PURGED (L)	3.6	13.2	18	22.8		
pH	6.46	6.29	6.26	6.24		
TEMPERATURE (C)	15.8	15.2	15.1	4.9		
CONDUCTIVITY (mmhos/cm)	.282	.287	.288	.283		
DISSOLVED OXYGEN (mg/L)	1.46	1.50	1.37	.441		
~~ORP (mV)~~						
TURBIDITY (NTU)	3.39	10	10	10		

TOTAL QUANTITY OF WATER REMOVED (L): 30

SAMPLERS:	TC KR	SAMPLING TIME (START/END):	1547 / 1550
SAMPLING DATE:	3-17-95	DECONTAMINATION FLUIDS USED:	None
SAMPLE TYPE:	Grab	SAMPLE PRESERVATIVES:	HCl, NaOH, HNO3
SAMPLE BOTTLE IDs:	BN-03-59-MW009		
SAMPLE PARAMETERS:	VOC, Tal Elements, Cyanide		

COMMENTS AND OBSERVATIONS: lowest flow possible

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FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: 59
WELL I.D.: MW 9-4
WELL CONDITION: Good

PROJECT NUMBER: 29600.47 7200
WELL LOCK STATUS: Present
WEATHER: Sunny 75°

GAUGE DATE: 8-17-95
SOUNDING METHOD: Slope indicator
STICK UP/DOWN (ft): 2.25'

GAUGE TIME: 0650
MEASUREMENT REF: top of pipe
WELL DIAMETER (in.):

PURGE DATE: 8-17-95
PURGE METHOD: low flow
AMBIENT AIR VOCs (ppm) Start: 0 End: 0

PURGE TIME: 0655
FIELD TECHNICIAN: KR TC
WELL MOUTH VOCs (ppm): Start: 0 End: 0

WELL VOLUME

A. WELL DEPTH (ft): 14.63
B. DEPTH TO WATER (ft): 10.22
C. LIQUID DEPTH (ft) (A-B): 4.41

D. WELL VOLUME/FT (L): .606
E. WELL VOLUME (L) (C*D): 2.67
F. THREE WELL VOLUMES (L) (E*3): 8.00

	BEGINNING	Number of Well Volumes Purged				
		1	2	3	4	5
TIME (min)	0708	0713	0718	0736		
DEPTH TO WATER (ft)	10.52	10.56	10.54	10.54		
PURGE RATE (l/min)	.5	.5	.5	.5		
VOLUME PURGED (L)	2.7	6.4	9.7	12.5		
pH	6.22	6.16	6.17	6.20		
TEMPERATURE (C)	12.7	13.6	13.7	13.6		
CONDUCTIVITY (µmhos/cm)	.342	.314	.313	.313		
DISSOLVED OXYGEN (µg/L)	1.25	0.95	1.03	1.05		
eh (mv)						
TURBIDITY (NTU)	151	9	4	1		

TOTAL QUANTITY OF WATER REMOVED (L): 18.6

SAMPLERS: KR, TC
SAMPLING TIME (START/END): 0740 0757
SAMPLING DATE: 8-17-95
DECONTAMINATION FLUIDS USED: None
SAMPLE TYPE: Grab
SAMPLE PRESERVATIVES: HCl, NaOH, HNO_3
SAMPLE BOTTLE IDs: BN-03-59-MW001 MS/MSD
SAMPLE PARAMETERS: VOC, Cyanide, Tal Metals
COMMENTS AND OBSERVATIONS: MS/MSD Taken Well was Purged at the lowest possible rate.

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FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: Site 9
WELL I.D.: MW 906
WELL CONDITION: good

PROJECT NUMBER: 29600.47172CC
WELL LOCK STATUS: locked
WEATHER: sunny/pleasant 65°F

GAUGE DATE: 08/17/95
SOUNDING METHOD: Slope indicator
STICK UP/DOWN (ft): 1.90'

GAUGE TIME: 0645
MEASUREMENT REF: top of pipe
WELL DIAMETER (in.): 2"

PURGE DATE: 08/17/95
PURGE METHOD: low flow
AMBIENT AIR VOCs (ppm) Start: 0ppm End: 0ppm

PURGE TIME: 0657
FIELD TECHNICIAN: TC, KK
WELL MOUTH VOCs (ppm): Start: 0ppm End: 0ppm

WELL VOLUME

A. WELL DEPTH (ft): 27.12'
B. DEPTH TO WATER (ft): 10.77'
C. LIQUID DEPTH (ft) (A-B): 16.35'

D. WELL VOLUME/FT (L): .605
E. WELL VOLUME (L) (C*D): 9.89
F. THREE WELL VOLUMES (L) (E*3): 29.68

	BEGINNING	Number of Well Volumes Purged				
		1	2	3	4	5
TIME (min)	0704	0711	0718	0730	0739	0747
DEPTH TO WATER (ft)	11.15	11.03	11.10	11.10	11.10	11.09
PURGE RATE (l/min)	.4L	.5L	.4L	.4L	.4L	.4L
VOLUME PURGED (L)	2.8L	6.3L	9.1L	13.9L	17.5L	30.2L
pH	6.38	6.43	6.44	6.43	6.42	6.42
TEMPERATURE (C)	13.8	13.8	14.0	14.0	14.0	14.0
CONDUCTIVITY (µmhos/cm)	.375	.266	.261	.268	.269	.271
DISSOLVED OXYGEN (µg/L)	0.83	0.84	1.26	1.19	1.06	1.08
~~eh (mv)~~						
TURBIDITY (NTU)	72	22	16	5	3	2

TOTAL QUANTITY OF WATER REMOVED (L): 34.2L

SAMPLERS: TC, KK
SAMPLING TIME (START/END): 0756/0757
SAMPLING DATE: 08/17/95
DECONTAMINATION FLUIDS USED: none
SAMPLE TYPE: Grab
SAMPLE PRESERVATIVES: 1:1 HCl
SAMPLE BOTTLE IDs: BN-03-S9-MW002
SAMPLE PARAMETERS: VOC'S
COMMENTS AND OBSERVATIONS: Well was purged at lowest flow possible.

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: Site 9
WELL I.D.: MW 907
WELL CONDITION: good

PROJECT NUMBER: 29600.47/2200
WELL LOCK STATUS: locked
WEATHER: sunny/pleasant 70°F

GAUGE DATE: 08/17/95
SOUNDING METHOD: slope indicator
STICK UP/DOWN (ft): 2.00"

GAUGE TIME: K ~~08/17/95~~ 0834
MEASUREMENT REF: top of pipe
WELL DIAMETER (in.): 2"

PURGE DATE: 08/17/95
PURGE METHOD: low flow
AMBIENT AIR VOCs (ppm) Start: 0ppm End: 0ppm

PURGE TIME: 0835
FIELD TECHNICIAN: TC, KR
WELL MOUTH VOCs (ppm): Start: 0ppm End: 0ppm

WELL VOLUME

A. WELL DEPTH (ft): ~~54.91~~ K 21.22
B. DEPTH TO WATER (ft): 15.08
C. LIQUID DEPTH (ft) (A-B): ~~39.83~~ K 6.14 K

D. WELL VOLUME/FT (L): .605
E. WELL VOLUME (L) (C*D): ~~24.16~~ K 3.71
F. THREE WELL VOLUMES (L) (E*3): ~~72.36~~ K 11.13

	BEGINNING	Number of Well Volumes Purged 1	2	3	4	5
TIME (min)	0841	0851	0859	0909		
DEPTH TO WATER (ft)	15.10	15.10	15.16	15.10		
PURGE RATE (l/min)	.3L	.3L	.3L	.3L		
VOLUME PURGED (L)	1.8L	4.8L	7.2L	10.2L		
pH	6.38	6.37	6.38	6.37		
TEMPERATURE (C)	15.6	17.3	17.2	17.3		
CONDUCTIVITY (µmhos/cm)	.344	.342	345	.346		
DISSOLVED OXYGEN (µg/L)	1.46	0.98	1.09	1.12		
~~eh (mv)~~	~~-314~~ K					
TURBIDITY (NTU)	9	2	0	0		

TOTAL QUANTITY OF WATER REMOVED (L): 12.3L

SAMPLERS: KR, TC
SAMPLING DATE: 08/17/95
SAMPLE TYPE: Grab
SAMPLE BOTTLE IDs: BN-03-S9-MW003
SAMPLE PARAMETERS: VOAs

SAMPLING TIME (START/END): 0915/0916
DECONTAMINATION FLUIDS USED: none
SAMPLE PRESERVATIVES: 1:1 HCl

COMMENTS AND OBSERVATIONS: Flow was set at lowest possible rate

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FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: Site 9
WELL I.D.: MW 9C8
WELL CONDITION: good

PROJECT NUMBER: 29600.4717200
WELL LOCK STATUS: locked
WEATHER: Sunny/pleasant 70°F

GAUGE DATE: 08/17/95
SOUNDING METHOD: Slope indicator
STICK UP/DOWN (ft): 2.00

GAUGE TIME: ~~0835~~ 0815
MEASUREMENT REF: Top of pipe
WELL DIAMETER (in.): 2"

PURGE DATE: 08/17/95
PURGE METHOD: low flow

PURGE TIME: 0818
FIELD TECHNICIAN: TC, KR

AMBIENT AIR VOCs (ppm) Start: 0ppm End: 0ppm

WELL MOUTH VOCs (ppm): Start: 0ppm End: 0ppm

WELL VOLUME

A. WELL DEPTH (ft): ~~52.79~~ 19.94
B. DEPTH TO WATER (ft): 12.00
C. LIQUID DEPTH (ft) (A-B): ~~40.79~~ 7.94

D. WELL VOLUME/FT (L): .605
E. WELL VOLUME (L) (C*D): ~~24.68~~ 4.80
F. THREE WELL VOLUMES (L) (E*3): ~~74.04~~ 14.40

	BEGINNING	Number of Well Volumes Purged 1	2	3	4	5
TIME (min)	0834	0845	0856	0904	0916	
DEPTH TO WATER (ft)	12.07	12.10	12.10	12.10	12.10	
PURGE RATE (l/min)	.3L	.3L	.3L	.3L	.3L	
VOLUME PURGED (L)	4.8L	8.1L	11.4L	13.8L	17.4L	
pH	5.87	5.89	5.87	5.87	5.89	
TEMPERATURE (C)	16.9	18.0	17.4	17.4	17.6	
CONDUCTIVITY (µmhos/cm)	.321	.323	.322	.317	.319	
DISSOLVED OXYGEN (µg/L)	1.55	2.25	1.37	1.34	1.38	
~~eh (mv)~~						
TURBIDITY (NTU)	0	0	0	0	0	

TOTAL QUANTITY OF WATER REMOVED (L) 18.9L

SAMPLERS: KR, TC
SAMPLING DATE: 08/17/95
SAMPLE TYPE: Grab
SAMPLE BOTTLE IDs: BN-03-59-MW004
SAMPLE PARAMETERS: VOCs

SAMPLING TIME (START/END): 0920/0921
DECONTAMINATION FLUIDS USED: none
SAMPLE PRESERVATIVES: 1:1 HCl

COMMENTS AND OBSERVATIONS: Pump was set at lowest possible rate

FIELD RECORD OF WELL GAUGING, PURGING. AND SAMPLING

SITE NAME: Site 9
WELL I.D.: MW9I4
WELL CONDITION: good

PROJECT NUMBER: 29600.47172.00
WELL LOCK STATUS: locked
WEATHER: sunny / warm

GAUGE DATE: 08/17/95
SOUNDING METHOD: Slope indicator
STICK UP/DOWN (ft): 2.30'

GAUGE TIME: 1135
MEASUREMENT REF: top of pipe
WELL DIAMETER (in.): 2"

PURGE DATE: 08/17/95
PURGE METHOD: low flow
AMBIENT AIR VOCs (ppm) Start: 0ppm End: 0ppm

PURGE TIME: ~~[illegible]~~ 1145/1250
FIELD TECHNICIAN: KR, TC
WELL MOUTH VOCs (ppm): Start: 0ppm End: 0ppm

WELL VOLUME

A. WELL DEPTH (ft): 18.92
B. DEPTH TO WATER (ft): 13.55
C. LIQUID DEPTH (ft) (A-B): 5.37

D. WELL VOLUME/FT (L): .605
E. WELL VOLUME (L) (C*D): 3.25
F. THREE WELL VOLUMES (L) (E*3): 9.75

	BEGINNING	Number of Well Volumes Purged				
		1	2	3	4	5
TIME (min)	1201	1219	1229	1243	1250	1305
DEPTH TO WATER (ft)	13.55	*	*	*	*	*
PURGE RATE (l/min)	.3L	.3L	.4L	.4L	.4L	.4L
VOLUME PURGED (L)	4.8L	[illegible]	14.2L	20.6L	[illegible]	21.0L
pH	6.94	[illegible]	6.91	6.85	[illegible]	6.84
TEMPERATURE (C)	24.4	[illegible]	23.5	27.2 **	[illegible]	23.4
CONDUCTIVITY (µmhos/cm)	.228	[illegible]	.228	.213	[illegible]	.216
DISSOLVED OXYGEN (µg/L)	1.18	[illegible]	1.39	1.43	[illegible]	1.38
~~eh (mv)~~						
TURBIDITY (NTU)	98	[illegible]	12	16	↓	16

TOTAL QUANTITY OF WATER REMOVED (L): 24.6L

SAMPLERS: TC, KR
SAMPLING TIME (START/END): 1306/1313
SAMPLING DATE: 08/17/95
DECONTAMINATION FLUIDS USED: ~~1:1 HCl, NaOH, HNO3~~ KR none
SAMPLE TYPE: Grab
SAMPLE PRESERVATIVES: 1:1 HCl, NaOH, HNO3
SAMPLE BOTTLE IDs: BN-03-S9-[illegible]006
SAMPLE PARAMETERS: VOAs, Cyanide, Total metals

COMMENTS AND OBSERVATIONS: * Depth to water could not be taken. Pump was locking slope indicator. Well was purged at lowest possible rate. Went dry @ 1255. Water was continuously flowing throughout sampling

** - Temp. could have gone up due to water sitting in tube in sun.

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WELL REPORT AND WATER LEVEL GAUGING, PURGING AND SAMPLING

SITE NAME:	Site 9	PROJECT NUMBER:	29600.47/7200
WELL I.D.:	mw 9/5	WELL LOCK STATUS:	locked
WELL CONDITION:	good	WEATHER:	Sunny/warm 85°F
GAUGE DATE	08/17/95	GAUGE TIME:	1325
SOUNDING METHOD:	slope indicator	MEASUREMENT REF:	top of pipe
STICK UP/DOWN (ft):	2.05	WELL DIAMETER (in.):	2"
PURGE DATE:	08/17/95	PURGE TIME:	1354
PURGE METHOD:	low flow	FIELD TECH. PERSONNEL:	TC, KK
AMBIENT AIR VOCs (ppm):	Start: 0ppm End: 0	WELL MOUTH VOCs (ppm):	Start: 0ppm End: 0

WELL VOLUME

A. WELL DEPTH (ft):	19.04	D. WELL VOLUME PER FT (L):	.605
B. DEPTH TO WATER (ft):	11.80	E. WELL VOLUME (L) (C*D):	4.38
C. LIQUID DEPTH (ft) (A-B):	7.24	F. THREE WELL VOLUMES (L) (E*3):	13.14

	BEFORE PURGE	Number of Well Volumes Purged				
		TC		3	4	5
TIME (min)	1405	1411	1446	1451	1437	1446
DEPTH TO WATER (ft)	12.00	12.00	12.00	12.00	12.00	12.00
PURGE RATE (L/min)	Variable	variable	variable	variable	variable	variable
VOLUME PURGED (L)	N/A	N/A	N/A	N/A	N/A	N/A
pH	6.94	6.90	6.94	6.95	6.94	6.94
TEMPERATURE (°C)	22.9	27.8	26.7	23.1	24.0	26.7
CONDUCTIVITY (mmhos/cm)	.455	.431	.460	.457	.458	.460
DISSOLVED OXYGEN (mg/L)	1.05	0.81	1.35	1.30	1.24	1.35
~~Eh (mV)~~						
TURBIDITY (NTU)	17	14	5	2	7	5

TOTAL QUANTITY OF WATER REMOVED (L): N/A

SAMPLERS: TC, KK

SAMPLING TIME (START/END): 1449/1454

SAMPLING DATE: 08/17/95

DECONTAMINATION FLUIDS USED: none

SAMPLE TYPE: Grab

SAMPLE PRESERVATIVE: 1:1 HCl, HNO_3, NaOH

SAMPLE BOTTLE IDs: BN-03-S9-MW008

SAMPLE PARAMETERS: VOAs, Tot Elements, Cyanide

COMMENTS AND OBSERVATIONS: Well was purged at max possible flow rate. The water was continuously flowing while sampling.

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EA

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: Site 9
WELL I.D.: MW 9116
WELL CONDITION: Good

PROJECT NUMBER: 29600.47/720C
WELL LOCK STATUS: locked
WEATHER: Sunny/pleasant

GAUGE DATE: 08/17/95
SOUNDING METHOD: Slope indicator
STICK UP/DOWN (ft): 1.91'

GAUGE TIME: 1010
MEASUREMENT REF: Top of pipe
WELL DIAMETER (in.): 2"

PURGE DATE: 08/17/95
PURGE METHOD: Low flow
AMBIENT AIR VOCs (ppm) Start: 0ppm End: 0ppm

PURGE TIME: 1019
FIELD TECHNICIAN: JC, KR
WELL MOUTH VOCs (ppm): Start: 0ppm End: 0ppm

WELL VOLUME

A. WELL DEPTH (ft): 18.85'
B. DEPTH TO WATER (ft): 11.51'
C. LIQUID DEPTH (ft) (A-B): 7.34'
D. WELL VOLUME/FT (L): .605
E. WELL VOLUME (L) (C*D): 4.44
F. THREE WELL VOLUMES (L) (E*3): 13.32

	BEGINNING	Number of Well Volumes Purged				
		1	2	3	4	5
TIME (min)	1024	1030	1032	1036		
DEPTH TO WATER (ft)	11.51	11.50	11.50	11.52		
PURGE RATE (l/min)	.3L	.3L	.3L	.3L		
VOLUME PURGED (L)	1.5L	3.3L	3.9L	5.1L		
pH	6.81	6.72	6.71	6.71		
TEMPERATURE (C)	19.0	19.6	19.7	20.4		
CONDUCTIVITY (μmhos/cm)	.622	.638	.636	.640		
DISSOLVED OXYGEN (μg/L)	0.91	0.92	0.89	0.99		
~~eh (mv)~~						
TURBIDITY (NTU)	36	9	4	3		

TOTAL QUANTITY OF WATER REMOVED (L): 12.9L

SAMPLERS: JC, KR
SAMPLING TIME (START/END): 1045/~~10~~ 1102
SAMPLING DATE: 08/17/95
DECONTAMINATION FLUIDS USED: none
SAMPLE TYPE: Grab
SAMPLE PRESERVATIVES: 1:1 HCl, HNO3, N
SAMPLE BOTTLE IDs: BN-03-S9-MW005
SAMPLE PARAMETERS: VOAs, Cyanide, Tal Elements
COMMENTS AND OBSERVATIONS: Pump was set at lowest possible flow rate

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Appendix B.3

Field Record of Surface Water and Sediment Sampling Forms

EA ENGINEERING, SCIENCE, AND TECHNOLOGY, INC.

FIELD RECORD OF SURFACE WATER AND SEDIMENT SAMPLING

Project: BNAS			Site: Site 9
Project Number: 29000471/2000			Date: 08/17/95
Sample Location ID: SK LT-901			Sample Team Members: KE, KR
Time: 1245	Start: ~~0000~~ 1315	End: ~~0000~~ 1340	Signature of Sampler: [signature]

~~SURFACE WATER INFORMATION~~

leachate

Water Depth and Sample Location 2" (ft)

Depth of Sample from Top of Water 1" (ft)

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

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

Decontamination Fluids Used:
( ) Isopropyl Alcohol
( ) 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 19.4 Degree C. Specific Conductivity .422 µmhos/cm pH 6.29 Units Dissolved Oxygen 0.95 ~~ppm~~ mg/L K Turb 44NT

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

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:
(X) Gravity Corer
( ) Stainless Steel Split Spoon
( ) Dredge
( ) Hand Spoon/Trowel
( ) Aluminum Pans
( ) Stainless Steel Bucket
( ) _____

Decontamination Fluids Used:
(X) Isopropyl Alcohol
( ) ASTM Type II Water
(X) Deionized Water
(X) Liquinox Solution
( ) Hexane
( ) HNO_3 Solution
( ) Potable Water
( ) None

Sample Observations:
(X) Odor none
(X) Color dark brown
( ) _____

Field QC Data: (X) Field Duplicate Collected
Duplicate ID BN-03-S9-SDXD2

~~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
✓	✓		✓	80mL	✓	BN-03-S9-SW001
✓		✓		8oz	✓	BN-03-S9-SD007

~~NOTES/SKETCH~~

Duplicate (sediment)
MS/MSD (surface water)
MS-Total metals (sediment)

EA ENGINEERING, SCIENCE, AND TECHNOLOGY, INC.

FIELD RECORD OF SURFACE WATER AND SEDIMENT SAMPLING

Project: BNAS			Site: Site 9
Project Number: 07600.47/7000			Date: 08/16/95
Sample Location ID: SW15ad 010			Sample Team Members: KI, KR
Time: 1230	Start: ~~0 ppm~~ 1230	End: ~~0 ppm~~ 1255	Signature of Sampler: [illegible]

SURFACE WATER INFORMATION

Water Depth and Sample Location 3.5" (ft)

Depth of Sample from Top of Water 1.5" (ft)

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

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

Decontamination Fluids Used:
- ( ) Isopropyl Alcohol
- ( ) 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 18.6 Degree C. Specific Conductivity .299 mhos/cm pH 6.37 Units Dissolved Oxygen 4.00 ~~ppm~~ mg/L Turb 1[illegible]

Field QC Data: ( ) Field Duplicate Collected
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
- ( ) Organic
- ( ) Gravel

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

Decontamination Fluids Used:
- (X) Isopropyl Alcohol
- ( ) ASTM Type II Water
- (X) Deionized Water
- (X) Liquinox Solution
- ( ) Hexane
- ( ) HNO_3 Solution
- ( ) Potable Water
- ( ) None

Sample Observations:
- (X) Odor none
- (X) Color gray brown
- ( ) _____

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
✓	✓		✓	80mL	✓	BN-03-59-SW006
✓		✓		8oz	✓	BN-03-59-SD006

NOTES/SKETCH

EA ENGINEERING, SCIENCE, AND TECHNOLOGY, INC.

FIELD RECORD OF SURFACE WATER AND SEDIMENT SAMPLING

Project: BNAS 29600.47/7200			Site: Site 9
Project Number: 29600.47/7200			Date: 08/16/95
Sample Location ID: SW/Sed 011			Sample Team Members: KE, KG
Time: 1005	Start: ~~0000~~ 1015	End: ~~0000~~ 1025	Signature of Sampler: [illegible]

SURFACE WATER INFORMATION

Water Depth and Sample Location 2.5' (ft)

Depth of Sample from Top of Water 2' (ft)

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

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

Decontamination Fluids Used:
- ( ) Isopropyl Alcohol
- ( ) ASTM Type II Water
- (X) Deionized Water
- ( ) Liquinox Solution
- ( ) Hexane
- ( ) HNO_3 Solution
- ( ) Potable Water
- ( ) None

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

Temperature 17.0 Degree C. Specific Conductivity .240 µmhos/cm pH 6.81 Units Dissolved Oxygen 4.71 ~~ppm~~ mg/L turb 7 NT

Field QC Data: ( ) Field Duplicate Collected
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
- ( ) Organic
- ( ) Gravel

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

Decontamination Fluids Used:
- (X) Isopropyl Alcohol
- ( ) ASTM Type II Water
- (X) Deionized Water
- (X) Liquinox Solution
- ( ) Hexane
- ( ) HNO_3 Solution
- ( ) Potable Water
- ( ) None

Sample Observations:
- (X) Odor none
- (X) Color dark brown/black
- ( ) _____

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

SAMPLES COLLECTED

Check if Required at this Location	Matrix: Surface Water	Matrix: Sediment	Check if Preserved with Acid/Base	Volume Required	Check if Sample Collected	Sample Bottle IDs
✓	✓		✓	80mL	✓	BN-03-~~CP~~S9-SW003
✓		✓		4g	✓	BN-03-S9-SD003

NOTES/SKETCH

EA ENGINEERING, SCIENCE, AND TECHNOLOGY, INC.

FIELD RECORD OF SURFACE WATER AND SEDIMENT SAMPLING

Project: BNAS			Site: Site 9
Project Number: 29600471200			Date: 08/16/95
Sample Location ID: SW/SD 012			Sample Team Members: KI, KR
Time: 0930	Start: ~~0900~~ 0935 ee	End: ~~0900~~ 0950	Signature of Sampler: [illegible]

SURFACE WATER INFORMATION

Water Depth and Sample Location 8" (ft)

Depth of Sample from Top of Water 2" (ft)

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

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

Decontamination Fluids Used:
( ) Isopropyl Alcohol
( ) ASTM Type II Water
(X) Deionized Water
( ) Liquinox Solution
( ) Hexane
( ) HNO_3 Solution
( ) Potable Water
( ) None

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

Temperature 16.8 Degree C. Specific Conductivity .238 µmhos/cm pH 6.74 Units Dissolved Oxygen 5.44 ~~ppm~~ mg/L turb 3

Field QC Data: ( ) Field Duplicate Collected
MS/MSD
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
( ) Organic
( ) Gravel

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

Decontamination Fluids Used:
(X) Isopropyl Alcohol
( ) ASTM Type II Water
(X) Deionized Water
(X) Liquinox Solution
( ) Hexane
( ) HNO_3 Solution
( ) Potable Water
( ) None

Sample Observations:
(X) Odor none
(X) Color light brown
( ) _____

Field QC Data: ( ) Field Duplicate Collected
MS/MSD
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
✓	✓		✓	80mL	✓	BN-03-S9-SW002
✓		✓		4oz	✓	BN-03-S9-SD002

NOTES/SKETCH

MS/MSD done for both surface water & sediment.

EA ENGINEERING, SCIENCE, AND TECHNOLOGY, INC.

FIELD RECORD OF SURFACE WATER AND SEDIMENT SAMPLING

Project: BNAS			Site: Site 9
Project Number: 29600.4717200			Date: 08/16/95
Sample Location ID: SW/Sed 915			Sample Team Members: KI, KR
Time: 1145	Start: ~~0900~~ 1155	End: ~~0900~~ 1200	Signature of Sampler: [illegible]

SURFACE WATER INFORMATION

Water Depth and Sample Location 6" (ft)

Depth of Sample from Top of Water 2" (ft)

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

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

Decontamination Fluids Used:
- ( ) Isopropyl Alcohol
- ( ) ASTM Type II Water
- (X) Deionized Water
- (X) Liquinox Solution
- ( ) Hexane
- ( ) HNO_3 Solution
- ( ) Potable Water
- (X) None

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

Temperature 16.2 Degree C. Specific Conductivity .247 µmhos/cm pH 6.74 Units Dissolved Oxygen 5.21 ~~ppm~~ mg/L turb 9 NTU

Field QC Data: ( ) Field Duplicate Collected
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
- ( ) Sand
- ( ) Organic
- (X) Gravel

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

Decontamination Fluids Used:
- (X) Isopropyl Alcohol
- ( ) ASTM Type II Water
- (X) Deionized Water
- (X) Liquinox Solution
- ( ) Hexane
- ( ) HNO_3 Solution
- ( ) Potable Water
- ( ) None

Sample Observations:
- (X) Odor mni
- (X) Color light brown
- ( ) _____

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
✓	✓		✓	80mL	✓	BN-03-S9-SW005
✓		✓		8oz	✓	BN-03-S9-SD005

NOTES/SKETCH

EA ENGINEERING, SCIENCE, AND TECHNOLOGY, INC.

FIELD RECORD OF SURFACE WATER AND SEDIMENT SAMPLING

Project: BNAS			Site: Site 9
Project Number: 29600.47/7200			Date: 08/16/95
Sample Location ID: SW/Sed 919			Sample Team Members: KI, KR
Time: 1100	Start: ~~0000~~ 1115	End: ~~0000~~ 1120	Signature of Sampler: Karen Ruz

SURFACE WATER INFORMATION

Water Depth and Sample Location 3" (ft)

Depth of Sample from Top of Water 1.5" (ft)

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

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

Decontamination Fluids Used:
- (X) Isopropyl Alcohol
- ( ) ASTM Type II Water
- (X) Deionized Water
- (X) Liquinox Solution
- ( ) Hexane
- ( ) HNO_3 Solution
- ( ) Potable Water
- ( ) None

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

Temperature 17.1 Degree C. Specific Conductivity .241 mhos/cm pH 6.70 Units Dissolved Oxygen 4.68 ~~ppm~~ mg/L turb 5 NTU

Field QC Data: (X) Field Duplicate Collected
Duplicate ID BN-03-59-SWXD1

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
- (X) Gravel

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

Decontamination Fluids Used:
- (X) Isopropyl Alcohol
- ( ) ASTM Type II Water
- (X) Deionized Water
- (X) Liquinox Solution
- ( ) Hexane
- ( ) HNO_3 Solution
- ( ) Potable Water
- ( ) None

Sample Observations:
- (X) Odor Hydrocarbon smell
- (X) Color Grey/brown
- ( ) _____

Field QC Data: (X) Field Duplicate Collected
Duplicate ID BN-03-59-SDXD1

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
✓	✓		✓	80 mL	✓	BN-03-59-SW004
✓		✓		8 oz	✓	BN-03-59-SD004

NOTES/SKETCH

Duplicate collected here for both surface water / sediment

EA ENGINEERING, SCIENCE, AND TECHNOLOGY, INC.

FIELD RECORD OF SURFACE WATER AND SEDIMENT SAMPLING

Project: BNAS	Site: Site 9
Project Number: 29600.4717200	Date: 08/16/95
Sample Location ID: SW/SD 922	Sample Team Members: KR, KJ
Time: 0840 Start: ~~0000~~ 0845 End: ~~0000~~ 0855	Signature of Sampler: [illegible]

SURFACE WATER INFORMATION

Water Depth and Sample Location 4" (ft)

Depth of Sample from Top of Water 2" (ft)

Type of Surface Water:
- [x] Stream
- ( ) River
- ( ) Pond/Lake
- ( ) Seep

Equipment Used for Collection:
- [x] None, Grab into Bottle
- ( ) Bomb Sampler
- ( ) Pump _____

Decontamination Fluids Used:
- ( ) Isopropyl Alcohol
- ( ) ASTM Type II Water
- [x] Deionized Water
- ( ) Liquinox Solution
- ( ) Hexane
- ( ) HNO_3 Solution
- ( ) Potable Water
- ( ) None

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

Temperature 17.8 Degree C. Specific Conductivity .237 µmhos/cm pH 6.61 Units Dissolved Oxygen 5.27 ppm Turb 3.0

Field QC Data: ( ) Field Duplicate Collected
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
- ( ) Organic
- ( ) Gravel

Equipment Used for Collection:
- [x] Gravity Corer
- ( ) Stainless Steel Split Spoon
- ( ) Dredge
- ( ) Hand Spoon/Trowel
- ( ) Aluminum Pans
- ( ) Stainless Steel Bucket
- ( ) _____

Decontamination Fluids Used:
- [x] Isopropyl Alcohol
- ( ) ASTM Type II Water
- [x] Deionized Water
- [x] Liquinox Solution
- ( ) Hexane
- ( ) HNO_3 Solution
- ( ) Potable Water
- ( ) None

Sample Observations:
- [x] Odor organic
- [x] Color dark brown
- ( ) _____

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
✓	✓	✗	✓	80mL	✓	BN-03-S9-SW001
✓		✓		4oz	✓	BN-03-S9-SD001

NOTES/SKETCH

Appendix C

Analytical Data Quality Review

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REVIEW OF ANALYTICAL QUALITY CONTROL

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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 14 aqueous (ground-water, surface water, and leachate seep) samples, and 9 sediment samples collected from Site 9. For the combined analyses for this site, 3 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.

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 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. Completeness was quantified by reviewing the number of usable results to the number of samples scheduled for collection.

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.

The following sections summarize the results of this program.

C.1.1 Field Sampling Program Quality Control

A field duplicate sample was collected for each matrix (i.e., soil and water) and analyzed for the same parameters as the original environmental samples to determine field sampling precision. The potential for cross-contamination of volatile organics during sample storage and shipment was monitored by trip blanks which were shipped with each sample cooler containing aqueous samples. The trip blank was analyzed for volatile organic compounds (VOC) by U.S. Environmental Protection Agency (EPA) Method 8260. 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. In addition, a source water blank was analyzed to assess the chemical quality of the water used in the decontamination sequence. The source water blank was also associated with Sites 1 and 3 and Eastern Plume.

C.1.2 Laboratory Analytical Quality Control Program

Sediment and water samples collected from the monitoring sites were analyzed for Target Compound List (TCL) VOC by EPA Method 8260, TCL semivolatile organic compounds (SVOC) by EPA Method 8270, Target Analyte List (TAL) metals by the following EPA Methods: cyanide by EPA Method 9010, 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, laboratory control sample (LCS), and surrogate (system monitoring compound) recoveries for the samples. Field completeness was quantified by reviewing the number of samples taken 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 section 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 methods and sample matrixes.

C.3 PRECISION

C.3.1 Volatile Organic Compounds

Five VOC are used to quantify the MS/MSD RPD. 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 RPD were within the control limits established in the QAPP, with the exception of benzene (15 percent) and toluene (14 percent) in Sample S9SW002 (SW-012). However, as both the MS and the MSD recoveries were within the established control limits, usability of the data is not affected. No actions are required according to EPA Region I data validation criteria. The results are usable as reported.

The sediment samples MS/MSD RPD were within the control limits established in the QAPP with the exception of 1,1-dichloroethene (60 percent) in Sample S9SD002 (SED-012). However, as the MS recovery was only slightly below the lower control limit and the MSD recovery was within the established control limits, usability of the data is not affected. No actions are required according to EPA Region I data validation criteria. The results are usable as reported.

C.3.2 Semivolatile Organic Compounds

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

The sediment samples MS/MSD RPD were within the laboratory established control limits. The results are usable as reported.

C.3.3 Target Analyte List Analytes

All 24 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 monitoring well aqueous samples MS/MSD RPD fell within the acceptable RPD of 35 percent, with the exception of the following analytes: in Sample S9LT001 (LT-901), iron (63 percent) and cyanide (38 percent) exceeded the 35 percent measure. Usability of the data is not affected by MS/MSD RPD as MSD are typically not run for TAL metal analytes. No actions were taken according to EPA Region I data validation criteria. The results are usable as reported.

The sediment samples MS/MSD RPD fell within the standard measure of 35 percent RPD, with the exception of the following analyte: cyanide (43 percent). Usability of the data is not affected by MS/MSD RPD as MSD are typically not run for TAL metal analytes. No actions were required according to EPA Region I data validation criteria. The results are usable as reported.

C.4 ACCURACY

C.4.1 Volatile Organic Compounds

Three system monitoring compounds are used to measure the ability of the laboratory to extract the target analytes by evaluating the recovery of indicator compounds which are structurally similar to targeted analytes as indicators for all of the analytes. The control limits identified in the QAPP and reported by the laboratory were the same except for 1,2-dichloroethane. The QAPP limits for 1,2-dichloroethane were 76-114 percent, while the laboratory used 86-118 percent. The quality control results were reviewed against both sets of control limits.

The surface water, leachate seep, and monitoring well aqueous sample system monitoring compound 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: the surrogate recoveries for bromofluorobenzene were below the lower control limit identified by the laboratory in the following samples: S9SD003 (SED-011), S9SD006 and S9SD006RE (SED-010), S9LT001 and S9LT001RE (LT-901), S9SD001 and S9SD001RE (SED-922). However, only one of these samples (S9SD001) was reported below the lower control limit identified in the QAPP. The surrogate recovery for dibromofluoromethane was below the lower control limits identified by the laboratory and the QAPP in one sample (S9SD003RE [SED-011]). The samples associated with these surrogates are likely to be biased low due to possible matrix interference. The surrogate recovery for dibromofluoro-methane was above the upper control limit identified by the laboratory and the QAPP in one sample (S9LT001RE [LT-901]). The sample results are likely to be biased high due to possible matrix interference.

Five VOC are used to quantify the MS/MSD recoveries with laboratory established control limits for each spiking analyte. The recovery limits reported by the laboratory were the same as those identified in the QAPP. An MS/MSD was analyzed at the correct frequency for each matrix.

The surface water, leachate seep, and monitoring well aqueous sample MS/MSD recoveries were within control limits identified in the QAPP.

The sediment sample MS/MSD recoveries were within control limits identified in the QAPP, with the exception of 1,1-dichloroethene (57 percent), in Sample S9SD002 (SED012), which was below the lower control limit identified by QAPP. No usability actions were taken for MS/MSD as per EPA Region I data validation criteria, therefore, the results are usable as reported.

Five VOC 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. No LCS recovery limits are stated in the QAPP. The results are usable as reported.

C.4.2 Semivolatile Organic Compounds

Eight system monitoring compounds were used to measure the ability of the laboratory to extract the target analytes by evaluating the recovery of indicator compounds which are structurally similar to the targeted analytes as indicators for all of the analytes. The aqueous and sediment surrogate recoveries were within the laboratory established control limits. The results are usable as reported.

Eleven compounds are used to quantify the MS/MSD recoveries with laboratory established control limits for each spiking compound. The control limits established in the QAPP were the same as those reported by the laboratory. An MS/MSD was analyzed at the correct frequency for each matrix.

The sediment samples MS/MSD recoveries were within the control limits identified in the QAPP with the exception of pyrene in Sample S9SD002 (SED-012), which was reported for MS recovery at 33 percent and MSD recovery at 29 percent. No usability actions are taken for MS/MSD as per EPA Region I data validation criteria, therefore, the results are usable as reported.

Eleven SVOC 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. No LCS recovery limits are stated in the QAPP. The results are usable as reported.

C.4.3 Target Analyte List Analytes

All 24 analytes were used to quantify MS/MSD recoveries with laboratory established control limits for each spiking analytes. All of the MS recoveries were analyzed at the correct frequency.

The monitoring well aqueous sample MS/MSD recoveries for Sample S9MW001 (MW-904) 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 analyte: cyanide (58 and 48 percent) was reported below the lower control limit for both MS and MSD, respectively, indicating a possible low bias. According to EPA Region I data validation criteria, the following data usability action is noted; cyanide concentrations are estimated in the following samples: S9MWXD1 (MW-916), S9MW001 (MW-904), S9MW005 (MW-916), S9MW006 (MW-914), S9MW008 (MW-915), and S9MW009 (MW-903).

The surface water and leachate seep aqueous sample MS/MSD recoveries for Sample S9LT001 (LT-901) had 1 analyte (iron) where the MSD was reported above the upper control limit. This is indicative of a possible high bias. No actions are required for iron, as metals are typically not run for MSD. No actions are required according to EPA Region I data validation criteria. Cyanide (58.4 and 55.3 percent) was reported below the lower control limit for both MS and MSD, respectively, indicating a possible low bias. According to EPA Region I data validation criteria, the following data usability action is noted; cyanide concentrations are estimated in Samples S9SLT001 (LT-901) and S9QS003 (rinse blank).

The sediment sample MS/MSD recoveries for Sample S9LT001 (LT-901)were within both the laboratory established control limits and the control limits identified in the QAPP (75-125 percent), with the exception of, chromium, lead, manganese, zinc, and cyanide. The MSD percent recoveries for chromium (63.7), manganese (28.3), and zinc (55.5) were reported at below the lower control limit. These results are indicative of low bias, however, no actions were taken according to EPA Region I data validation guidelines as MSD is typically not run for metals. Cyanide (54.3 and 51.9 percent) and lead (68.4 and 67.9 percent) were reported below

the lower control limits for both MS and MSD, respectively, indicating a possible low biases. According to EPA Region I data validation criteria, the following data usability action is noted: cyanide and lead concentrations are estimated in Sample S9SLT001 (LT-901).

All 24 TAL metals 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 a mid- level calibration standard. 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 are 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 S9LT001, and one trip blank was collected in SDG S9MW001. One rinsate blank was collected in the surface water aqueous SDG-S9SW001, and one rinsate blank was collected in the sediment SDG-S9SD001. 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.

One trip blank S9QT010 (associated with SDGs S9SD001, S9LT001, and S9SW001) was reported free of detectable VOC with the exception of the following: methylene chloride (5 μg/L). The second trip blank S9QT011 (associated with SDG S9MW001) was also reported free of detectable VOC with the exception of methylene chloride (29 μg/L). Methylene chloride was also detected in the all of the associated laboratory method blanks. Methylene chloride is a common laboratory contaminant, and at the level of concentration that it was detected in the trip blanks, it is likely that they were introduced in the laboratory.

One rinsate blank S9QS004 (associated with SDG S9SD001) contained the following VOC contaminants: acetone (4 μg/L), methylene chloride (7 μg/L), and toluene (1 μg/L), all of which were detected in the associated laboratory method blanks. Rinsate blank S9QS003 (associated with SDG S9LT001 and S9SW001), contained the following VOC contaminants: acetone (1 μg/L), methylene chloride (4 μg/L), and 2-butanone (1 μg/L), all of which were detected in the associated laboratory method blanks. All of the VOC contaminants were detected in the associated laboratory method blanks in similar concentrations, indicating that the compounds are laboratory artifacts. This rinsate blank (S9QS003) was also run for TAL metal analyte contamination. The following analytes were detected: barium (1.2 μg/L), iron (44.0 μg/L), and manganese (1.1 μg/L). All of these metals concentrations were reported between the Instrument Detection Limit and the Contract Required Detection Limit.

C.7 DUPLICATE FIELD SAMPLES

Field duplicate samples were not identified to the laboratory. Duplicate field samples were collected during the monitoring well ground-water sampling program, the surface water/leachate seep sampling program and the sediment sampling program. Sample duplication was evaluated using the RPD between the original and duplicated results.

The RPD results from the duplicate monitoring well samples (SDG-S9MW001) are shown in the table below:

Analyte	Units	MW-NASB-081	MW-NASB-081 Dup	RPD%
Aluminum	μg/L	17.1B	(<14.5U)	200
Barium	μg/L	68.5B	67.8B	1.0
Calcium	μg/L	39,400	40,300	2.3
Chromium	μg/L	3.1B	1.9B	48
Cobalt	μg/L	4.9B	5.2B	6.0
Copper	μg/L	4.3B	3.4B	23
Iron	μg/L	111	83.5B	28
Magnesium	μg/L	2,780B	2,810B	1.1
Manganese	μg/L	1,070	1,050	1.8
Nickel	μg/L	4.8B	4.0B	18
Potassium	μg/L	6,520	6,330	2.9
Sodium	μg/L	70,500	72,600	3.6
Zinc	μg/L	(<2U)	19.5B	200
Methylene chloride	μg/L	2JB	1JB	66.6
Total xylenes	μg/L	4B	3B	28.5
Toluene	μg/L	(<2U)	1J	200
Chloroform	μg/L	1J	1J	0
Bromoform	μg/L	1J	(<5U)	200
1,2-Dichlorobenzene	μg/L	1JB	1JB	0

The RPD discrepancies for all VOC and TAL analytes are in reasonable agreement between the two analyses, with the exception of the following: aluminum, zinc, methylene chloride, toluene, and bromoform. The inorganic results (aluminum and zinc) were reported below the Contract

Required Detection Limit where analytical measurement error is anticipated. The organic results (methylene chloride, toluene, and bromoform) were reported below the Contract Required Quantification Limit, where analytical measurement error is anticipated. Therefore, these RPD discrepancies are not considered significant.

The RPD results from the duplicate surface water samples (SDG-S9SW001) are shown in the table below:

Analyte	Units	SW-919	SW-919 DUP	RPD %
Acetone	μg/L	2JB	2JB	0
Methylene chloride	μg/L	7	6	15.4
Trichloroethene	μg/L	1J	1J	0
1,1,1-Trichloroethane	μg/L	(<2U)	1J	200
Total 1,1-Dichloroethene	μg/L	7	(<2U)	200

The reported RPD results for both acetone, methylene chloride, and trichloroethene are in agreement. The analysis results for discrepancies for 1,1,1-trichloroethene and total 1,1-dichloroethene were reported below the Contract Required Quantitation Limit where analytical measurement error is anticipated. Therefore, these RPD discrepancies are not considered significant.

The RPD results from the duplicate sediment well samples (SDG-S9SD001) are shown in the table below:

Analyte	Units	SED-919	SED-919 DUP	RDP%
Acetone	μg/L	6JB	19JB	104
Methylene chloride	μg/L	8B	50B	144
2-Butanone	μg/L	3J	5JB	50
Tetrachloroethene	μg/L	(<3U)	8JB	200
Naphthalene	μg/L	3,200	(<430U)	200
Acenaphthene	μg/L	5,200	59J	196
Dibenzofuran	μg/L	3,700	(<430U)	200
Fluorene	μg/L	7,000	84J	195
Phenanthrene	μg/L	51,000	900	193
Anthracene	μg/L	8,500	200J	191
Carbazole	μg/L	4,800	210J	183
Di-n-butylphthalate	μg/L	52J	(<430U)	200
Fluoranthene	μg/L	46,000	4,100	167
Pyrene	μg/L	35,000	2,900	169
Benzo(a)anthracene	μg/L	15,000	1,400	166
Chrysene	μg/L	14,000	1,600	159
Bis(2-ethylhexyl)phthalate	μg/L	4,400	660	152
Benzo(b)fluoroanthene	μg/L	16,000	1,800	160
Benzo(k)fluoroanthene	μg/L	4,600	610	153
Benzo(a)pyrene	μg/L	11,000	1,200	161
Indeno(1,2,3-c,d)pyrene	μg/L	8,500	790	166
Dibenzo(a,h)anthracene	μg/L	1,800	190J	162
Benzo(g,h,i)perylene	μg/L	6,900	720	200
1,4 - Dichlorobenzene	μg/L	430	(<430U)	200
2-Methylnaphthalene	μg/L	5,000	(<430U)	200
Butylbenzylphthalate	μg/L	7,000	(<430U)	200

The RPD for acetone and 2-butanone were within reasonable agreement. The RPD discrepancies for the remaining VOC and SVOC could be caused by insufficient sample homogenization or poor laboratory precision.

Appendix D

Summary Tables for Analyses of Tentatively Identified Compounds

TABLE D-1 SUMMARY OF TENTATIVELY IDENTIFIED COMPOUNDS REPORTED IN SEDIMENT SAMPLES COLLECTED AUGUST 1995 AT SITE 9 NAVAL AIR STATION, BRUNSWICK, MAINE

	Retention Time (min)	SED-010[a]	SED-011[a]	SED-012	SED-915	SED-919	SED-919 DUP	SED-	QS-004
VOLATILE ORGANIC COMPOUNDS BY EPA METHOD 8260 (μg/kg)									
Trichloromono fluoromethane	4.76								6JN
Naphthalene 1,2,3,4 tetrahydro-5M	19.96		290JN						
Unknown	20.54		240J						
Alkane	20.70		210J						
Alkane	21.06		190J						
Alkane	22.04		370J						
Alkane	22.68		2,700J						
Unknown	23.03		720J						
C13H18 isomer	23.61		240J						
C11H10 isomer	24.08		1,300J						
C10H14 isomer	24.27								
C10H14 isomer	24.46								
Unknown	24.72					33J			
Unknown	24.74		560J						
C10H14 isomer	24.91								
Alkane	25.13					35J			

(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.

	Retention Time (min)	SED-010[a]	SED-011[a]	SED-012	SED-915	SED-919	SED-919 DUP	SED-	QS-004
VOLATILE ORGANIC COMPOUNDS BY EPA METHOD 8260 (μg/kg) (Continued)									
Unknown	25.13		350J						
Unknown	25.27		800J						
C10H14 isomer	25.36								
Alkane	25.43					29J			
Alkane	25.59					31J			
C10H14 isomer	25.65								
Alkane	25.82		300J						
Unknown	25.84					45J			
Hydrocarbon	25.86						250J		
C11H16 isomer	25.88								
C10H14 isomer	26.04		300J						
C10H14 isomer	26.05								
C11H16 isomer	26.17								
C10H14 isomer	26.27								
Unknown	26.32							10J	
Unknown	26.32					63J			
Hydrocarbon	26.34						250J		
Hydrocarbon	26.34								
C10H14	26.38								
C11H16	26.52								
Alkane	26.58					39J			
Alkane	26.94					54J			
Alkane	26.96						150J		
C10H12	26.97								

	Retention Time (min)	SED-010[a]	SED-011[a]	SED-012	SED-915	SED-919	SED-919 DUP	SED-	QS-004
VOLATILE ORGANIC COMPOUNDS BY EPA METHOD 8260 (μg/kg) (Continued)									
C11H16 isomer	27.17								
Alkane	27.20					66J			
Hydrocarbon	27.20								
C11H16 isomer	27.20		260J						
Hydrocarbon	27.20							14J	
Unknown	27.21						190J		
C10H14	27.31		790J						
C11H16	27.40								
Alkane	27.45							13J	
Alkane	27.46						160J		
Alkane	27.46								
C13H28 isomer	27.46					94J			
C11H16	27.52								
Alkane	27.54					55J			
Hydrocarbon	27.55						170J		
Alkane	27.64							11J	
Alkane	27.65					46J			
Alkane	27.66								
Unknown	27.68		330J						
Alkane	27.76					44J			
Alkane	27.87		1,400J						
Unknown	28.09								
C11H16	28.11								
Unknown	28.16		410J						

	Retention Time (min)	SED-010[a]	SED-011[a]	SED-012	SED-915	SED-919	SED-919 DUP	SED-	QS-004
VOLATILE ORGANIC COMPOUNDS BY EPA METHOD 8260 (μg/kg) (Continued)									
C13H26 isomer	28.33							14J	
Alkane	28.34					52J	190J		
C11H14	28.34								
Unknown	28.61							12J	
Unknown	28.62					57J			
Unknown	28.62						230J		
Hydrocarbon	28.62								
Alkane	28.72							37J	
Unknown	28.73					41J			
Alkane	28.73								
Alkane	28.79					38J			
Unknown	28.89							24J	
Alkane	28.90					88J			
Alkane	28.90						270J		
Unknown	28.91								
C12H12 isomer	28.94		640J						
Unknown	29.09								
C11H22 isomer	29.12							17J	
Substituted cyclohexane	29.13						140J		
Unknown	29.13					34J			
Alkane	29.20					31J			
Unknown	29.32							17J	
Unknown	29.33								

	Retention Time (min)	SED-010[a]	SED-011[a]	SED-012	SED-915	SED-919	SED-919 DUP	SED-	QS-004
SEMIVOLATILE ORGANIC COMPOUNDS BY EPA METHOD 8260 (μg/kg)									
Unknown	5.65						1,400JB		
Unknown	5.64	1,300JB							
Unknown	5.79								
Unknown	5.79			1,200JBB					
Unknown	5.87								
Unknown	5.87				1,000JB				
Unknown	9.70						360J		
Alkane	11.08						360J		
Cycloalkane	11.19						280J		
Alkane	11.31						290J		
Alkane	11.71						330J		
Unknown	11.79						280J		
Unknown	11.86						290J		
3-Tetradedecene, CE	12.05						600JN		
Unknown	12.25						380J		
Unknown	12.53						380J		
Alkane	12.66						380J		
Naphthalene 1-methyl	12.85					2,900JN			
Unknown	13.06						610J		
Octatetra contane, 1-iodo	13.18						450J		
Alkane	13.87						490J		
Dimethylnaphthalene isomer	14.03					2,700J			
Dimethylnaphthalene isomer	14.22					3,200J			
1H-indeno, octohydr-2,2,4,4,7,7-heramethyl-trans	14.23						1,100JN		

	Retention Time (min)	SED-010[a]	SED-011[a]	SED-012	SED-915	SED-919	SED-919 DUP	SED-	QS-004
SEMIVOLATILE ORGANIC COMPOUNDS BY EPA METHOD 8260 (μg/kg) (Continued)									
Dimethylnaphthalene isomer	14.39					2,900J			
Dimethylnaphthalene isomer	14.66					2,000J			
Decahydro-4,4-8,9,10-penta	14.75						720JN		
Methyl-9H-fluorene isomer	17.70	210J							
Dibenzo thiophene	18.36	290JN							
Dibenzothiophene	18.53								
Dibenzothiophene	18.64					240JN			
Dibenzothiophene, 3-methyl	19.76					200JN			
C15H12 isomer	19.92	310J							
Dibenzothiophene, 4-methyl	19.98					230JN			
C15H12 isomer PAH	19.99	350J							
C15H12 isomer	20.11								
4H-cyclopenta(def)phenanthrene	20.15	650JN							
C15H12 isomer	20.17								
PAH, MW=192	20.23					520J			
C15H12 isomer PAH	20.25	240J							
PAH, MW=192	20.30					500J			
4H-cyclopenta(def)phenanthrene	20.33								
4H, cyclopenta(def)phenanthrene	20.46					310JN			
PAH, MW=192	20.54					240J			
9,10-Anthracenediane	20.74	460JN							
PAH, MW=204	20.91								
2-phenylnaphtalene	21.03					550JN			
Unknown	21.11								

	Retention Time (min)	SED-010[a]	SED-011[a]	SED-012	SED-915	SED-919	SED-919 DUP	SED-	QS-004
SEMIVOLATILE ORGANIC COMPOUNDS BY EPA METHOD 8260 (μg/kg) (Continued)									
Dimethylphenanthrne isomer	21.46					240J			
Dimethylphenanthrne isomer	21.65					330J			
C17H12 isomer, PAH	23.27	240J							
C17H12 isomer	23.28								
C17H12 isomer	23.29			250J					
11H-benzo(a)fluorene	23.40					740JN			
C17H12 isomer	23.45								
C17H12 isomer	23.45			220J					
11H-benzo(b)fluorne	23.58					700JN			
Alkane	24.02								
Benzo(g,h,i)fluoranthene	24.72	330JN							
Unknown	24.77						730JN		
Benzo(b)naphtha(2,1-d)thiophene	24.82								
Benzo(g,h,i)fluoranthene	24.91								
PAH, MW-228	25.50	230J							
Benzo(c)phenanthene	25.69			240JN					
Unknown	26.76			300J					
Unknown	26.82			200J					
Alkane	26.97			250J					
Alkane	27.28			550J					
Alkane	27.35								
Alkane	27.37				270J				
Alkane	27.53						670J		
Alkane	27.69			780J					

	Retention Time (min)	SED-010[a]	SED-011[a]	SED-012	SED-915	SED-919	SED-919 DUP	SED-	QS-004
SEMIVOLATILE ORGANIC COMPOUNDS BY EPA METHOD 8260 (μg/kg) (Continued)									
Alkane	27.78				470J				
Benzo(j)fluoranthene	28.37						690JN		
Benzo(j)fluoranthene	28.37	950JN							
(Z)14-Tricosenyl formate	28.40								
Benzo(j)fluoranthene	28.55			490JN					
Benzo(j)fluoranthene	28.69					6,900JN			
28-Nor-17, alpha (H)-hopane	29.81	710JN							
(Z)14-Tricosenyl formate	29.86								
28-Nor-17, beta (H)-hopane	30.00								
Alkane	30.17			220J					
Alkane	30.25								
Unknown	30.33								
Unknown	30.40	430JN							
Unknown	30.59								
Unknown	31.41								
D-friedoolean-14-en-3-one	31.70			480JN					
D-friedoolean-14-en-3-one	31.81								
Unknown	32.21			3,800J					
Unknown, MW=205	32.33								
Unknown	32.60								
Pregn-4-ene-3,20-dione (9 beta, 10 alpha)	32.74			360JN					
Unknown	32.88								
Unknown	33.80								

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

APPENDIX E-1

SAMPLE KEY - SITE 9
NAVAL AIR STATION, BRUNSWICK, MAINE

Sample Designation	Sample Station
Monitoring Wells	
S9-MW007	MW-901
S9-MW009	MW-903
S9-MW001	MW-904
S9-MW002	MW-906
S9-MW003	MW-907
S9-MW004	MW-908
S9-MW006	MW-914
S9-MW008	MW-915
S9-MW005	MW-916
S9-MWXD1	MW-916 (DUP)

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ENVIRONMENTAL LABORATORIES

Lab Number : WL-1281-10
Report Date: 09/18/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9MW007	Aqueous	T. CAREY	08/17/95	08/18/95

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	08/23/95	DW	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	08/23/95	DW	
Vinyl chloride	<2.	µg/L	1.0	2.0	EPA 8260	08/23/95	DW	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	08/23/95	DW	
Methylene chloride	JB3	µg/L	1.0	3.0	EPA 8260	08/23/95	DW	
Acetone	<5.	µg/L	1.0	5.0	EPA 8260	08/23/95	DW	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	08/23/95	DW	
1,1-Dichloroethene	<1.	µg/L	1.0	1.0	EPA 8260	08/23/95	DW	
1,1-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	08/23/95	DW	
Total 1,2-Dichloroethene	<2.	µg/L	1.0	2.0	EPA 8260	08/23/95	DW	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	08/23/95	DW	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	08/23/95	DW	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	08/23/95	DW	
1,1,1-Trichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	08/23/95	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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3 Washington Center
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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9MW007	Aqueous	T. CAREY	08/17/95	08/18/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	08/23/95	DW	
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	08/23/95	DW	
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	08/23/95	DW	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	08/23/95	DW	
Trichloroethene	<2.5	µg/L	1.0	2.5	EPA 8260	08/23/95	DW	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	08/23/95	DW	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	08/23/95	DW	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	08/23/95	DW	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	08/23/95	DW	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	08/23/95	DW	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	08/23/95	DW	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	08/23/95	DW	
Tetrachloroethene	<2.	µg/L	1.0	2.0	EPA 8260	08/23/95	DW	
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	08/23/95	DW	
Toluene	<2.	µg/L	1.0	2.0	EPA 8260	08/23/95	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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3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9MW007	Aqueous	T. CAREY	08/17/95	08/18/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	08/23/95	DW	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	08/23/95	DW	
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	08/23/95	DW	
Total Xylenes	<2.	µg/L	1.0	2.0	EPA 8260	08/23/95	DW	
Dibromofluoromethane (Surr.)	104.	%	1.0		EPA 8260	08/23/95	DW	
Toluene-d8 (Surr.)	98.	%	1.0		EPA 8260	08/23/95	DW	
p-Bromofluorobenzene (Surr.)	93.	%	1.0		EPA 8260	08/23/95	DW	
1,2-Dichlorobenzene	<2.	µg/L	1.0	2.0	EPA 8260	08/23/95	DW	
1,3-Dichlorobenzene	<2.	µg/L	1.0	2.0	EPA 8260	08/23/95	DW	
1,4-Dichlorobenzene	<2.	µg/L	1.0	2.0	EPA 8260	08/23/95	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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1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
S9MW007

Lab Name: PACE, ME Contract:

Project No.: Site: Location: SDG: S9MW001

Matrix: (soil/water) WATER Lab Sample ID: WL1281-10

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: Y1047

Level: (low/med) LOW Date Received: 8/18/95

% Moisture: not dec. Date Analyzed: 8/23/95

GC Column: RTX-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Concentration Units:
(ug/L or ug/Kg) ug/L

Number TICs found: 0

CAS Number	Compound Name	RT	Est. Conc.	Q
1.				
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Lab Number : WL-1281-6
Report Date: 09/18/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9MW009	Aqueous	T. CAREY	08/17/95	08/18/95

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	08/22/95	DW	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
Vinyl chloride	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
Methylene chloride	JB1	µg/L	1.0	3.0	EPA 8260	08/22/95	DW	
Acetone	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
1,1-Dichloroethene	<1.	µg/L	1.0	1.0	EPA 8260	08/22/95	DW	
1,1-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
Total 1,2-Dichloroethene	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
1,1,1-Trichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	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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EA Engineering
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Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9MW009	Aqueous	T. CAREY	08/17/95	08/18/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	08/22/95	DW	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
Trichloroethene	<2.5	µg/L	1.0	2.5	EPA 8260	08/22/95	DW	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	08/22/95	DW	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	08/22/95	DW	
Tetrachloroethene	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
Toluene	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	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.

09/18/95

LJO/jcbkwh/spg(dw)/sra/tjg
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ENVIRONMENTAL LABORATORIES

Lab Number : WL-1281-6
Report Date: 09/18/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9MW009	Aqueous	T. CAREY	08/17/95	08/18/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
Total Xylenes	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
Dibromofluoromethane (Surr.)	102.	%	1.0		EPA 8260	08/22/95	DW	
Toluene-d8 (Surr.)	102.	%	1.0		EPA 8260	08/22/95	DW	
p-Bromofluorobenzene (Surr.)	95.	%	1.0		EPA 8260	08/22/95	DW	
1,2-Dichlorobenzene	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
1,3-Dichlorobenzene	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
1,4-Dichlorobenzene	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	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.

09/18/95

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1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
S9MW009

Lab Name: PACE, ME Contract:

Project No.: Site: Location: SDG: S9MW001

Matrix: (soil/water) WATER Lab Sample ID: WL1281-6

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: Y1016

Level: (low/med) LOW Date Received: 8/18/95

% Moisture: not dec. Date Analyzed: 8/22/95

GC Column: RTX-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs found: 1 Concentration Units: (ug/L or ug/Kg) ug/L

CAS Number	Compound Name	RT	Est. Conc.	Q
1. 124389	Carbon Dioxide	1.94	5	JNB
2.				
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U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

S9MW009

Lab Name: PACE_ME Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: S9MW00

Matrix (soil/water): WATER Lab Sample ID: WL1281-6

Level (low/med): LOW Date Received: 08/18/95

% 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	89.1	B		P
7440-36-0	Antimony	2.6	U		P
7440-38-2	Arsenic	2.8	U		P
7440-39-3	Barium	11.0	B		P
7440-41-7	Beryllium	0.12	U		P
7440-43-9	Cadmium	3.0	U		P
7440-70-2	Calcium	11000		E	P
7440-47-3	Chromium	0.54	U		P
7440-48-4	Cobalt	0.61	U		P
7440-50-8	Copper	1.1	U		P
7439-89-6	Iron	5720			P
7439-92-1	Lead	1.6	U		P
7439-95-4	Magnesium	6130			P
7439-96-5	Manganese	367			P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	2.2	B		P
7440-09-7	Potassium	2000	B		P
7782-49-2	Selenium	3.7	U		P
7440-22-4	Silver	0.67	U		P
7440-23-5	Sodium	26300			P
7440-28-0	Thallium	5.5	U		P
7440-62-2	Vanadium	0.48	U		P
7440-66-6	Zinc	19.0	U		P
5712-5	Cyanide	2.6	U	N	C

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

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PO No. : 802LSCA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9MW001	Aqueous	T. CAREY	08/17/95	08/18/95

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	08/22/95	DW	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
Vinyl chloride	9.	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
Methylene chloride	JB2	µg/L	1.0	3.0	EPA 8260	08/22/95	DW	
Acetone	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
1,1-Dichloroethene	<1.	µg/L	1.0	1.0	EPA 8260	08/22/95	DW	
1,1-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
Total 1,2-Dichloroethene	15.	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
1,1,1-Trichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	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.

09/18/95

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Lab Number : WL-1281-1
Report Date: 09/18/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9MW001	Aqueous	T. CAREY	08/17/95	08/18/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	08/22/95	DW	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
Trichloroethene	J1	µg/L	1.0	2.5	EPA 8260	08/22/95	DW	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	08/22/95	DW	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	08/22/95	DW	
Tetrachloroethene	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
Toluene	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	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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Lab Number : WL-1281-1
Report Date: 09/18/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9MW001	Aqueous	T. CAREY	08/17/95	08/18/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
Total Xylenes	JB1	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
Dibromofluoromethane (Surr.)	101.	%	1.0		EPA 8260	08/22/95	DW	
Toluene-d8 (Surr.)	101.	%	1.0		EPA 8260	08/22/95	DW	
p-Bromofluorobenzene (Surr.)	95.	%	1.0		EPA 8260	08/22/95	DW	
1,2-Dichlorobenzene	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
1,3-Dichlorobenzene	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
1,4-Dichlorobenzene	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	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.

09/18/95

LJO/jcbkwh/spg(dw)/sra/tjg
LH22VLW2

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

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1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
S9MW001

Lab Name: PACE, ME Contract: _____

Project No.: _____ Site: _____ Location: _____ SDG: S9MW001

Matrix: (soil/water) WATER Lab Sample ID: WL1281-1

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: Y1009

Level: (low/med) LOW Date Received: 8/18/95

% Moisture: not dec. _____ Date Analyzed: 8/22/95

GC Column: RTX-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 0

Concentration Units: (ug/L or ug/Kg) ug/L

CAS Number	Compound Name	RT	Est. Conc.	Q
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U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

S9MW001

Lab Name: PACE_ME Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: S9MW00

Matrix (soil/water): WATER Lab Sample ID: WL1281-1

Level (low/med): LOW Date Received: 08/18/95

% 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	17.5	B		P
7440-36-0	Antimony	2.6	U		P
7440-38-2	Arsenic	2.8	U		P
7440-39-3	Barium	16.0	B		P
7440-41-7	Beryllium	0.12	U		P
7440-43-9	Cadmium	3.0	U		P
7440-70-2	Calcium	22900		E	P
7440-47-3	Chromium	2.4	B		P
7440-48-4	Cobalt	0.61	U		P
7440-50-8	Copper	1.1	U		P
7439-89-6	Iron	19.0	B		P
7439-92-1	Lead	1.6	U		P
7439-95-4	Magnesium	5750			P
7439-96-5	Manganese	189			P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	1.9	B		P
7440-09-7	Potassium	2040	B		P
7782-49-2	Selenium	3.7	U		P
7440-22-4	Silver	0.67	U		P
7440-23-5	Sodium	29800			P
7440-28-0	Thallium	5.5	U		P
7440-62-2	Vanadium	0.48	U		P
7440-66-6	Zinc	19.0	U		P
5712-5	Cyanide	2.6	U	N	C

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

FORM I - IN 3/90

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ENVIRONMENTAL LABORATORIES

Lab Number : WL-1281-7
Report Date: 09/18/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9MW002	Aqueous	T. CAREY	08/17/95	08/18/95

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	08/23/95	DW	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	08/23/95	DW	
Vinyl chloride	4.	µg/L	1.0	2.0	EPA 8260	08/23/95	DW	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	08/23/95	DW	
Methylene chloride	JB3	µg/L	1.0	3.0	EPA 8260	08/23/95	DW	
Acetone	<5.	µg/L	1.0	5.0	EPA 8260	08/23/95	DW	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	08/23/95	DW	
1,1-Dichloroethene	<1.	µg/L	1.0	1.0	EPA 8260	08/23/95	DW	
1,1-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	08/23/95	DW	
Total 1,2-Dichloroethene	11.	µg/L	1.0	2.0	EPA 8260	08/23/95	DW	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	08/23/95	DW	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	08/23/95	DW	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	08/23/95	DW	
1,1,1-Trichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	08/23/95	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.

09/18/95

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P.O. Box 720 - 340 County Road #5
Westbrook, ME 04098
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pace INCORPORATED
ENVIRONMENTAL LABORATORIES

Lab Number : WL-1281-7
Report Date: 09/18/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9MW002	Aqueous	T. CAREY	08/17/95	08/18/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	08/23/95	DW	
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	08/23/95	DW	
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	08/23/95	DW	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	08/23/95	DW	
Trichloroethene	J1	µg/L	1.0	2.5	EPA 8260	08/23/95	DW	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	08/23/95	DW	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	08/23/95	DW	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	08/23/95	DW	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	08/23/95	DW	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	08/23/95	DW	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	08/23/95	DW	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	08/23/95	DW	
Tetrachloroethene	<2.	µg/L	1.0	2.0	EPA 8260	08/23/95	DW	
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	08/23/95	DW	
Toluene	<2.	µg/L	1.0	2.0	EPA 8260	08/23/95	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.

09/18/95

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pace INCORPORATED
ENVIRONMENTAL LABORATORIES

Lab Number : WL-1281-7
Report Date: 09/18/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9MW002	Aqueous	T. CAREY	08/17/95	08/18/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	08/23/95	DW	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	08/23/95	DW	
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	08/23/95	DW	
Total Xylenes	JB1	µg/L	1.0	2.0	EPA 8260	08/23/95	DW	
Dibromofluoromethane (Surr.)	102.	%	1.0		EPA 8260	08/23/95	DW	
Toluene-d8 (Surr.)	99.	%	1.0		EPA 8260	08/23/95	DW	
p-Bromofluorobenzene (Surr.)	98.	%	1.0		EPA 8260	08/23/95	DW	
1,2-Dichlorobenzene	<2.	µg/L	1.0	2.0	EPA 8260	08/23/95	DW	
1,3-Dichlorobenzene	<2.	µg/L	1.0	2.0	EPA 8260	08/23/95	DW	
1,4-Dichlorobenzene	<2.	µg/L	1.0	2.0	EPA 8260	08/23/95	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.

09/18/95

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LH23VLW2

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
S9MW002

Lab Name: PACE, ME Contract:

Project No.: Site: Location: SDG: S9MW001

Matrix: (soil/water) WATER Lab Sample ID: WL1281-7

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: Y1049

Level: (low/med) LOW Date Received: 8/18/95

% Moisture: not dec. Date Analyzed: 8/23/95

GC Column: RTX-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Concentration Units:
(ug/L or ug/Kg) ug/L

Number TICs found: 0

CAS Number	Compound Name	RT	Est. Conc.	Q
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pace INCORPORATED
ENVIRONMENTAL LABORATORIES

Lab Number : WL-1281-8
Report Date: 09/18/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9MW003	Aqueous	T. CAREY	08/17/95	08/18/95

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	08/23/95	DW	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	08/23/95	DW	
Vinyl chloride	13.	µg/L	1.0	2.0	EPA 8260	08/23/95	DW	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	08/23/95	DW	
Methylene chloride	B4	µg/L	1.0	3.0	EPA 8260	08/23/95	DW	
Acetone	<5.	µg/L	1.0	5.0	EPA 8260	08/23/95	DW	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	08/23/95	DW	
1,1-Dichloroethene	<1.	µg/L	1.0	1.0	EPA 8260	08/23/95	DW	
1,1-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	08/23/95	DW	
Total 1,2-Dichloroethene	J1	µg/L	1.0	2.0	EPA 8260	08/23/95	DW	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	08/23/95	DW	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	08/23/95	DW	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	08/23/95	DW	
1,1,1-Trichloroethane	J1	µg/L	1.0	2.0	EPA 8260	08/23/95	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.

09/18/95

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LH23VLW2

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

Lab Number : WL-1281-8
Report Date: 09/18/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9MW003	Aqueous	T. CAREY	08/17/95	08/18/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	08/23/95	DW	
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	08/23/95	DW	
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	08/23/95	DW	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	08/23/95	DW	
Trichloroethene	<2.5	µg/L	1.0	2.5	EPA 8260	08/23/95	DW	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	08/23/95	DW	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	08/23/95	DW	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	08/23/95	DW	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	08/23/95	DW	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	08/23/95	DW	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	08/23/95	DW	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	08/23/95	DW	
Tetrachloroethene	<2.	µg/L	1.0	2.0	EPA 8260	08/23/95	DW	
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	08/23/95	DW	
Toluene	<2.	µg/L	1.0	2.0	EPA 8260	08/23/95	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.

09/18/95

LJO/jcbkwh/spg(dw)/sra/tjg
LH23VLW2

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
S9MW003

Lab Name: PACE, ME Contract:

Project No.: Site: Location: SDG: S9MW001

Matrix: (soil/water) WATER Lab Sample ID: WL1281-8

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: Y1045

Level: (low/med) LOW Date Received: 8/18/95

% Moisture: not dec. Date Analyzed: 8/23/95

GC Column: RTX-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs found: 1 Concentration Units: (ug/L or ug/Kg) ug/L

CAS Number	Compound Name	RT	Est. Conc.	Q
1. 124389	Carbon Dioxide	1.92	8	JNB
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ENVIRONMENTAL LABORATORIES

Lab Number : WL-1281-8
Report Date: 09/18/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9MW003	Aqueous	T. CAREY	08/17/95	08/18/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	08/23/95	DW	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	08/23/95	DW	
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	08/23/95	DW	
Total Xylenes	JB1	µg/L	1.0	2.0	EPA 8260	08/23/95	DW	
Dibromofluoromethane (Surr.)	113.	%	1.0		EPA 8260	08/23/95	DW	
Toluene-d8 (Surr.)	102.	%	1.0		EPA 8260	08/23/95	DW	
p-Bromofluorobenzene (Surr.)	105.	%	1.0		EPA 8260	08/23/95	DW	
1,2-Dichlorobenzene	<2.	µg/L	1.0	2.0	EPA 8260	08/23/95	DW	
1,3-Dichlorobenzene	<2.	µg/L	1.0	2.0	EPA 8260	08/23/95	DW	
1,4-Dichlorobenzene	<2.	µg/L	1.0	2.0	EPA 8260	08/23/95	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.

09/18/95

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pace INCORPORATED
ENVIRONMENTAL LABORATORIES

Lab Number : WL-1281-9
Report Date: 09/18/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9MW004	Aqueous	T. CARRY	08/17/95	08/18/95

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	08/23/95	DW	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	08/23/95	DW	
Vinyl chloride	2.	µg/L	1.0	2.0	EPA 8260	08/23/95	DW	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	08/23/95	DW	
Methylene chloride	JB3	µg/L	1.0	3.0	EPA 8260	08/23/95	DW	
Acetone	<5.	µg/L	1.0	5.0	EPA 8260	08/23/95	DW	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	08/23/95	DW	
1,1-Dichloroethene	<1.	µg/L	1.0	1.0	EPA 8260	08/23/95	DW	
1,1-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	08/23/95	DW	
Total 1,2-Dichloroethene	<2.	µg/L	1.0	2.0	EPA 8260	08/23/95	DW	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	08/23/95	DW	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	08/23/95	DW	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	08/23/95	DW	
1,1,1-Trichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	08/23/95	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.

09/18/95

LJO/jcbkwh/spg(dw)/sra/tjg
LH23VLW2

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

Lab Number : WL-1281-9
Report Date: 09/18/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9MWC04	Aqueous	T. CAREY	08/17/95	08/18/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	08/23/95	DW	
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	08/23/95	DW	
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	08/23/95	DW	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	08/23/95	DW	
Trichloroethene	J1	µg/L	1.0	2.5	EPA 8260	08/23/95	DW	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	08/23/95	DW	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	08/23/95	DW	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	08/23/95	DW	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	08/23/95	DW	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	08/23/95	DW	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	08/23/95	DW	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	08/23/95	DW	
Tetrachloroethene	<2.	µg/L	1.0	2.0	EPA 8260	08/23/95	DW	
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	08/23/95	DW	
Toluene	<2.	µg/L	1.0	2.0	EPA 8260	08/23/95	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.

09/18/95

LJO/jcbkwh/spg(dw)/sra/tjg
LH23VLW2

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

Lab Number : WL-1281-9
Report Date: 09/18/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9MW004	Aqueous	T. CAREY	08/17/95	08/18/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	08/23/95	DW	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	08/23/95	DW	
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	08/23/95	DW	
Total Xylenes	<2.	µg/L	1.0	2.0	EPA 8260	08/23/95	DW	
Dibromofluoromethane (Surr.)	106.	%	1.0		EPA 8260	08/23/95	DW	
Toluene-d8 (Surr.)	99.	%	1.0		EPA 8260	08/23/95	DW	
p-Bromofluorobenzene (Surr.)	94.	%	1.0		EPA 8260	08/23/95	DW	
1,2-Dichlorobenzene	<2.	µg/L	1.0	2.0	EPA 8260	08/23/95	DW	
1,3-Dichlorobenzene	<2.	µg/L	1.0	2.0	EPA 8260	08/23/95	DW	
1,4-Dichlorobenzene	<2.	µg/L	1.0	2.0	EPA 8260	08/23/95	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.

09/18/95

LJO/jcbkwh/spg(dw)/sra/tjg
LH23VLW2

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
S9MW004

Lab Name: PACE, ME Contract:

Project No.: Site: Location: SDG: S9MW001

Matrix: (soil/water) WATER Lab Sample ID: WL1281-9

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: Y1046

Level: (low/med) LOW Date Received: 8/18/95

% Moisture: not dec. Date Analyzed: 8/23/95

GC Column: RTX-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Concentration Units:
(ug/L or ug/Kg) ug/L

Number TICs found: 1

CAS Number	Compound Name	RT	Est. Conc.	Q
1. 124389	Carbon Dioxide	1.92	7	JNB
2.				
3.				
4.				
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7.				
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pace INCORPORATED
ENVIRONMENTAL LABORATORIES

Lab Number : WL-1281-3
Report Date: 09/18/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9MW006	Aqueous	T. CAREY	08/17/95	08/18/95

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	08/22/95	DW	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
Vinyl chloride	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
Methylene chloride	JB2	µg/L	1.0	3.0	EPA 8260	08/22/95	DW	
Acetone	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
1,1-Dichloroethene	<1.	µg/L	1.0	1.0	EPA 8260	08/22/95	DW	
1,1-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
Total 1,2-Dichloroethene	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
1,1,1-Trichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	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.

09/18/95

LJO/jcbkwh/spg(dw)/sra/tjg
LH22VLW2

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

Lab Number : WL-1281-3
Report Date: 09/18/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9MW006	Aqueous	T. CAREY	08/17/95	08/18/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	08/22/95	DW	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
Trichloroethene	<2.5	µg/L	1.0	2.5	EPA 8260	08/22/95	DW	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	08/22/95	DW	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	08/22/95	DW	
Tetrachloroethene	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
Toluene	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	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.

09/18/95

LJO/jcbkwh/spg(dw)/sra/tjg
LH22VLW2

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

Lab Number : WL-1281-3
Report Date: 09/18/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9MW006	Aqueous	T. CAREY	08/17/95	08/18/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
Total Xylenes	JB2	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
Dibromofluoromethane (Surr.)	103.	%	1.0		EPA 8260	08/22/95	DW	
Toluene-d8 (Surr.)	101.	%	1.0		EPA 8260	08/22/95	DW	
p-Bromofluorobenzene (Surr.)	102.	%	1.0		EPA 8260	08/22/95	DW	
1,2-Dichlorobenzene	JB1	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
1,3-Dichlorobenzene	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
1,4-Dichlorobenzene	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	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.

09/18/95

LJO/jcbkwh/spg(dw)/sra/tjg
IH22VLW2

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
S9MW006

Lab Name: PACE, ME Contract: _____

Project No.: _____ Site: _____ Location: _____ SDG: S9MW001

Matrix: (soil/water) WATER Lab Sample ID: WL1281-3

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: Y1013

Level: (low/med) LOW Date Received: 8/18/95

% Moisture: not dec. _____ Date Analyzed: 8/22/95

GC Column: RTX-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Concentration Units:
(ug/L or ug/Kg) ug/L

Number TICs found: 1

CAS Number	Compound Name	RT	Est. Conc.	Q
1. 124389	Carbon Dioxide	1.95	5	JNB
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U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

S9MW006

Lab Name: PACE_ME Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: S9MW00

Matrix (soil/water): WATER Lab Sample ID: WL1281-3

Level (low/med): LOW Date Received: 08/18/95

% 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	48.1	B		P
7440-36-0	Antimony	2.6	U		P
7440-38-2	Arsenic	2.8	U		P
7440-39-3	Barium	232			P
7440-41-7	Beryllium	0.12	U		P
7440-43-9	Cadmium	3.0	U		P
7440-70-2	Calcium	26100		E	P
7440-47-3	Chromium	1.4	B		P
7440-48-4	Cobalt	0.61	U		P
7440-50-8	Copper	1.1	U		P
7439-89-6	Iron	15200			P
7439-92-1	Lead	1.6	U		P
7439-95-4	Magnesium	1690	B		P
7439-96-5	Manganese	107			P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	1.3	B		P
7440-09-7	Potassium	2450	B		P
7782-49-2	Selenium	3.7	U		P
7440-22-4	Silver	0.67	U		P
7440-23-5	Sodium	3020	B		P
7440-28-0	Thallium	5.5	U		P
7440-62-2	Vanadium	0.48	U		P
7440-66-6	Zinc	19.0	U		P
5712-5	Cyanide	2.6	U	N	C

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

Lab Number : WL-1281-5
Report Date: 09/18/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9MW008	Aqueous	T. CAREY	08/17/95	08/18/95

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	08/22/95	DW	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
Vinyl chloride	7.	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
Methylene chloride	JB1	µg/L	1.0	3.0	EPA 8260	08/22/95	DW	
Acetone	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
1,1-Dichloroethene	<1.	µg/L	1.0	1.0	EPA 8260	08/22/95	DW	
1,1-Dichloroethane	J2	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
Total 1,2-Dichloroethene	J1	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
1,1,1-Trichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	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.

09/18/95

LJO/jcbkwh/spg(dw)/sra/tjg
IH22VLW2

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

An Equal Opportunity Employer

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

Lab Number : WL-1281-5
Report Date: 09/18/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9MW008	Aqueous	T. CAREY	08/17/95	08/18/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	08/22/95	DW	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
Trichloroethene	<2.5	µg/L	1.0	2.5	EPA 8260	08/22/95	DW	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
Benzene	J1	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	08/22/95	DW	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	08/22/95	DW	
Tetrachloroethene	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
Toluene	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	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.

09/18/95

LJO/jcbkwh/spg(dw)/sra/tjg
LH22VLW2

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

Lab Number : WL-1281-5
Report Date: 09/18/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9MW008	Aqueous	T. CAREY	08/17/95	08/18/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
Total Xylenes	B3	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
Dibromofluoromethane (Surr.)	109.	%	1.0		EPA 8260	08/22/95	DW	
Toluene-d8 (Surr.)	100.	%	1.0		EPA 8260	08/22/95	DW	
p-Bromofluorobenzene (Surr.)	95.	%	1.0		EPA 8260	08/22/95	DW	
1,2-Dichlorobenzene	JB1	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
1,3-Dichlorobenzene	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
1,4-Dichlorobenzene	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	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.

09/18/95

LJO/jcbkwh/spg(dw)/sra/tjg
LH22VLW2

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
S9MW008

Lab Name: PACE, ME Contract: _____

Project No.: _____ Site: _____ Location: _____ SDG: S9MW001

Matrix: (soil/water) WATER Lab Sample ID: WL1281-5

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: Y1015

Level: (low/med) LOW Date Received: 8/18/95

% Moisture: not dec. _____ Date Analyzed: 8/22/95

GC Column: RTX-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 1 Concentration Units: (ug/L or ug/Kg) ug/L

CAS Number	Compound Name	RT	Est. Conc.	Q
1. 124389	Carbon Dioxide	1.96	7	JNB
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U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

S9MW008

Lab Name: PACE_ME Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: S9MW00

Matrix (soil/water): WATER Lab Sample ID: WL1281-5

Level (low/med): LOW Date Received: 08/18/95

% 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	76.5	B		P
7440-36-0	Antimony	2.6	U		P
7440-38-2	Arsenic	2.8	U		P
7440-39-3	Barium	640			P
7440-41-7	Beryllium	0.12	U		P
7440-43-9	Cadmium	3.0	U		P
7440-70-2	Calcium	59800		E	P
7440-47-3	Chromium	1.6	B		P
7440-48-4	Cobalt	0.61	U		P
7440-50-8	Copper	1.1	U		P
7439-89-6	Iron	4760			P
7439-92-1	Lead	1.6	U		P
7439-95-4	Magnesium	4350	B		P
7439-96-5	Manganese	424			P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	1.6	B		P
7440-09-7	Potassium	7580			P
7782-49-2	Selenium	3.7	U		P
7440-22-4	Silver	0.67	U		P
7440-23-5	Sodium	23400			P
7440-28-0	Thallium	5.5	U		P
7440-62-2	Vanadium	0.48	U		P
7440-66-6	Zinc	19.0	U		P
5712-5	Cyanide	2.9	B	N	C

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

FORM I - IN 3/90

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

Lab Number : WL-1281-2
Report Date: 09/18/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9MW005	Aqueous	T. CAREY	08/17/95	08/18/95

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	08/22/95	DW	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
Vinyl chloride	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
Methylene chloride	JB2	µg/L	1.0	3.0	EPA 8260	08/22/95	DW	
Acetone	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
1,1-Dichloroethene	<1.	µg/L	1.0	1.0	EPA 8260	08/22/95	DW	
1,1-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
Total 1,2-Dichloroethene	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
Chloroform	J1	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
1,1,1-Trichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	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.

09/18/95

LJO/jcbkwh/spg(dw)/sra/tjg
LH22VLW2

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

Lab Number : WL-1281-2
Report Date: 09/18/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9MWC05	Aqueous	T. CAREY	08/17/95	08/18/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	08/22/95	DW	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
Trichloroethene	<2.5	µg/L	1.0	2.5	EPA 8260	08/22/95	DW	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
Bromoform	J1	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
4-Methyl-2-pentanone	<3	µg/L	1.0	3.0	EPA 8260	08/22/95	DW	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	08/22/95	DW	
Tetrachloroethene	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
Toluene	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	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.

09/18/95

LJO/jcbkwh/spg(dw)/sra/tjg
LH22VLW2

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

Lab Number : WL-1281-2
Report Date: 09/18/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9MW005	Aqueous	T. CAREY	08/17/95	08/18/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
Total Xylenes	B4	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
Dibromofluoromethane (Surr.)	102.	%	1.0		EPA 8260	08/22/95	DW	
Toluene-d8 (Surr.)	101.	%	1.0		EPA 8260	08/22/95	DW	
p-Bromofluorobenzene (Surr.)	99.	%	1.0		EPA 8260	08/22/95	DW	
1,2-Dichlorobenzene	JB1	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
1,3-Dichlorobenzene	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
1,4-Dichlorobenzene	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	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.

09/18/95

LJO/jcbkwh/spg(dw)/sra/tjg
IH22VLW2

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
S9MW005

Lab Name: PACE, ME Contract: _____

Project No.: _____ Site: _____ Location: _____ SDG: S9MW001

Matrix: (soil/water) WATER Lab Sample ID: WL1281-2

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: Y1012

Level: (low/med) LOW Date Received: 8/18/95

% Moisture: not dec. _____ Date Analyzed: 8/22/95

GC Column: RTX-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 1 Concentration Units: (ug/L or ug/Kg) ug/L

CAS Number	Compound Name	RT	Est. Conc.	Q
1. 124389	Carbon Dioxide	1.92	6	JNB
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U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

S9MW005

Lab Name: PACE_ME Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: S9MW00

Matrix (soil/water): WATER Lab Sample ID: WL1281-2

Level (low/med): LOW Date Received: 08/18/95

% 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	17.1	B		P
7440-36-0	Antimony	2.6	U		P
7440-38-2	Arsenic	2.8	U		P
7440-39-3	Barium	68.5	B		P
7440-41-7	Beryllium	0.12	U		P
7440-43-9	Cadmium	3.0	U		P
7440-70-2	Calcium	39400		E	P
7440-47-3	Chromium	3.1	B		P
7440-48-4	Cobalt	4.9	B		P
7440-50-8	Copper	4.3	B		P
7439-89-6	Iron	111			P
7439-92-1	Lead	1.6	U		P
7439-95-4	Magnesium	2780	B		P
7439-96-5	Manganese	1070			P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	4.8	B		P
7440-09-7	Potassium	6520			P
7782-49-2	Selenium	3.7	U		P
7440-22-4	Silver	0.67	U		P
7440-23-5	Sodium	70500			P
7440-28-0	Thallium	5.5	U		P
7440-62-2	Vanadium	0.48	U		P
7440-66-6	Zinc	19.0	U		P
5712-5	Cyanide	2.6	U	N	C

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-1281-4
Report Date: 09/18/95
PO No. : 802LSOA

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9MWXD1	Aqueous	T. CAREY	08/17/95	08/18/95

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	08/22/95	DW	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
Vinyl chloride	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
Methylene chloride	JB1	µg/L	1.0	3.0	EPA 8260	08/22/95	DW	
Acetone	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
1,1-Dichloroethene	<1.	µg/L	1.0	1.0	EPA 8260	08/22/95	DW	
1,1-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
Total 1,2-Dichloroethene	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
Chloroform	J1	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
1,1,1-Trichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	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.

09/18/95

LJO/jcbkwh/spg(dw)/sra/tjg
LH22VLW2

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

Lab Number : WL-1281-4
Report Date: 09/18/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9MWXD1	Aqueous	T. CAREY	08/17/95	08/18/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	08/22/95	DW	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
Trichloroethene	<2.5	µg/L	1.0	2.5	EPA 8260	08/22/95	DW	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	08/22/95	DW	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	08/22/95	DW	
Tetrachloroethene	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
Toluene	J1	µg/L	1.0	2.0	EPA 8260	08/22/95	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.

09/18/95

LJO/jcbkwh/spg(dw)/sra/tjg
LH22VLW2

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
S9MWXD1

Lab Name: PACE, ME Contract:

Project No.: Site: Location: SDG: S9MW001

Matrix: (soil/water) WATER Lab Sample ID: WL1281-4

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: Y1014

Level: (low/med) LOW Date Received: 8/18/95

% Moisture: not dec. Date Analyzed: 8/22/95

GC Column: RTX-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Concentration Units:
(ug/L or ug/Kg) ug/L

Number TICs found: 0

CAS Number	Compound Name	RT	Est. Conc.	Q
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pace INCORPORATED
ENVIRONMENTAL LABORATORIES

Lab Number : WL-1281-4
Report Date: 09/18/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9MWXD1	Aqueous	T. CAREY	08/17/95	08/18/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
Total Xylenes	B3	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
Dibromofluoromethane (Surr.)	103.	%	1.0		EPA 8260	08/22/95	DW	
Toluene-d8 (Surr.)	103.	%	1.0		EPA 8260	08/22/95	DW	
p-Bromofluorobenzene (Surr.)	101.	%	1.0		EPA 8260	08/22/95	DW	
1,2-Dichlorobenzene	JB1	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
1,3-Dichlorobenzene	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
1,4-Dichlorobenzene	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	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.

09/18/95

LJO/jcbkwh/spg(dw)/sra/tjg
IH22VLW2

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

S9MWXD1

Lab Name: PACE_ME Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: S9MW00

Matrix (soil/water): WATER Lab Sample ID: WL1281-4

Level (low/med): LOW Date Received: 08/18/95

% 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	14.5	U		P
7440-36-0	Antimony	2.6	U		P
7440-38-2	Arsenic	2.8	U		P
7440-39-3	Barium	67.8	B		P
7440-41-7	Beryllium	0.12	U		P
7440-43-9	Cadmium	3.0	U		P
7440-70-2	Calcium	40300		E	P
7440-47-3	Chromium	1.9	B		P
7440-48-4	Cobalt	5.2	B		P
7440-50-8	Copper	3.4	B		P
7439-89-6	Iron	83.5	B		P
7439-92-1	Lead	1.6	U		P
7439-95-4	Magnesium	2810	B		P
7439-96-5	Manganese	1050			P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	4.0	B		P
7440-09-7	Potassium	6330			P
7782-49-2	Selenium	3.7	U		P
7440-22-4	Silver	0.67	U		P
7440-23-5	Sodium	72600			P
7440-28-0	Thallium	5.5	U		P
7440-62-2	Vanadium	0.48	U		P
7440-66-6	Zinc	19.5	B		P
5712-5	Cyanide	2.6	U	N	C

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

FORM I - IN 3/90

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

Lab Number : WL-1281-11
Report Date: 09/18/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9QT011	Aqueous	T. CAREY	08/17/95	08/18/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	08/23/95	DW	
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	08/23/95	DW	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	08/23/95	DW	
Trichloroethene	<2.5	µg/L	1.0	2.5	EPA 8260	08/23/95	DW	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	08/23/95	DW	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	08/23/95	DW	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	08/23/95	DW	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	08/23/95	DW	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	08/23/95	DW	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	08/23/95	DW	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	08/23/95	DW	
Tetrachloroethene	<2.	µg/L	1.0	2.0	EPA 8260	08/23/95	DW	
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	08/23/95	DW	
Toluene	<2.	µg/L	1.0	2.0	EPA 8260	08/23/95	DW	
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	08/23/95	DW	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	08/23/95	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

09/18/95

LJD/jcbkwh/spg(dw)/sra/tjg
LHZ3VLWZ

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

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pace INCORPORATED
ENVIRONMENTAL LABORATORIES

Lab Number : WL-1281-11
Report Date: 09/18/95
PO No. : 802LSCA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9\JT011	Aqueous	T. CAREY	08/17/95	08/18/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	08/23/95	DW	
Total Xylenes	<2.	µg/L	1.0	2.0	EPA 8260	08/23/95	DW	
Dibromofluoromethane (Surr.)	109.	%	1.0		EPA 8260	08/23/95	DW	
Toluene-d8 (Surr.)	101.	%	1.0		EPA 8260	08/23/95	DW	
p-Bromofluorobenzene (Surr.)	98.	%	1.0		EPA 8260	08/23/95	DW	
1,2-Dichlorobenzene	<2.	µg/L	1.0	2.0	EPA 8260	08/23/95	DW	
1,3-Dichlorobenzene	<2.	µg/L	1.0	2.0	EPA 8260	08/23/95	DW	
1,4-Dichlorobenzene	3.	µg/L	1.0	2.0	EPA 8260	08/23/95	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.

09/18/95

LJO/jcbkwh/spg(dw)/sra/tjg
LH23VLW2

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Westbrook, ME 04098
TEL: 207-874-2400

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1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
S9QT011

Lab Name: PACE, ME Contract: _____

Project No.: _____ Site: _____ Location: _____ SDG: S9MW001

Matrix: (soil/water) WATER Lab Sample ID: WL1281-11

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: Y1048

Level: (low/med) LOW Date Received: 8/18/95

% Moisture: not dec. _____ Date Analyzed: 8/23/95

GC Column: RTX-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Concentration Units:
(ug/L or ug/Kg) ug/L

Number TICs found: 0

CAS Number	Compound Name	RT	Est. Conc.	Q
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pace INCORPORATED
VIRONMENTAL LABORATORIES

CHAIN-OF-CUSTODY RECORD
Analytical Request

ent EA
dress Old Gurnet Road
Brunswick ME 04011.5000
one 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. W1281
*Requested Due Date:

mpled By (PRINT): Thomas Carey 8-17-95
mpler Signature: Thomas Carey
Date Sampled

EM O.	SAMPLE DESCRIPTION	TIME	MATRIX	PACE NO.	NO. OF CONTAINERS	UNPRESERVED	H_2SO_4	HNO_3	VOA HCl	NaOH		VOAs	Tot Elements	Cyanide		REMARKS
1	BN-03-59-MW001 MS/MSD	0720	H_2O	1	12			X	X	X		X	X	X		VOAs by 8260 plus library search Tot Elements + Cyanide refer to table 7-1 in QAP.
2	BN-03-59-MW002	0756	H_2O	7	2				X			X				
3	BN-03-59-MW005	0915	H_2O	8	2				X			X				
4	BN-03-59-MW004	0920	H_2O	9	2				X			X				
5	BN-03-59-MW005	1045	H_2O	2	4			X	X	X		X	X	X		
6	BN-03-59-MW006	1306	H_2O	3	4			X	X	X		X	X	X		
7	BN-03-59-MW007	1252	H_2O	10	2				X			X				
8	BN-03-59-MWXD1		H_2O	4	4			X	X	X		X	X	X		

COOLER NOS.	BAILERS	SHIPMENT METHOD OUT DATE	RETURNED DATE

ITEM NUMBER	RELINQUISHED BY / AFFILIATION	ACCEPTED BY / AFFILIATION	DATE	TIME
	Craig Corbett EA 8/18/95 1010 S. Green	Allyn Green	081895	1010
			081895	1100

ditional Comments
This page 1 of 2 for SDG
BN-03-59-MW001
in

Cooler Temps: 3, 3.5, 2, 2, 4.3

RIGINAL

SEE REVERSE SIDE FOR INSTRUCTIONS

248079

pace

VIRONMENTAL LABORATORIES

CHAIN-OF-CUSTODY RECORD
Analytical Request

nt EA
ress Old Gurnet Road
Brunswick, ME 04011-5000
one 207-798-5977

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

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

npled By (PRINT): Thomas Carey 8-17-95
npler Signature: Thomas M Carey
Date Sampled

ITEM NO.	SAMPLE DESCRIPTION	TIME	MATRIX	PACE NO.	NO. OF CONTAINERS	PRESERVATIVES: UNPRESERVED	H_2SO_4	HNO_3	VOA	MeOH	ANALYSES REQUEST: Vocs	Cyanide	Total Elements	REMARKS
1	BN-03-59-MW008	1449	H_2O	5	4			X	X	+	X	X	X	Vocs by 8260 plus library search Tot Elements + Cyanide refer to table 7-1 in QAP.
2	BN-03-59-MW009	1547	H_2O	6	4			X	X	+	X	X	X	
3	BN-03-59-QT011	740	H_2O	11	2				X		X			

COOLER NOS	BAILERS	SHIPMENT METHOD OUT DATE	RETURNED DATE	ITEM NUMBER	RELINQUISHED BY AFFILIATION	ACCEPTED BY AFFILIATION	DATE	TIME
					[illegible] 8/18/95 1010 S. Green	Sharon Green	08/18/95	1010
						[illegible]	08/18/95	1100

ditional Comments
Page 2 of 2 Completing SDG BN-03-59-MW001

SEE REVERSE SIDE FOR INSTRUCTIONS

NAL

Appendix E.2

Surface Water Samples
Site 9

APPENDIX E-2

SAMPLE KEY - SITE 9
NAVAL AIR STATION, BRUNSWICK, MAINE

Sample Designation	Sample Station
Surface Water	
S9-SW006	SW-010
S9-SW003	SW-011
S9-SW002	SW-012
S9-SW005	SW-915
S9-SW004	SW-919
S9-SWXD1	SW-919 (DUP)
S9-SW001	SW-922

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1269-6
Report Date: 08/29/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SW006	Aqueous	K. RUSCZYK	08/16/95	08/17/95

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	08/21/95	DW	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	08/21/95	DW	
Vinyl chloride	<2.	µg/L	1.0	2.0	EPA 8260	08/21/95	DW	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	08/21/95	DW	
Methylene chloride	7.	µg/L	1.0	3.0	EPA 8260	08/21/95	DW	
Acetone	JB2	µg/L	1.0	5.0	EPA 8260	08/21/95	DW	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	08/21/95	DW	
1,1-Dichloroethene	<1.	µg/L	1.0	1.0	EPA 8260	08/21/95	DW	
1,1-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	08/21/95	DW	
Total 1,2-Dichloroethene	J1.	µg/L	1.0	2.0	EPA 8260	08/21/95	DW	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	08/21/95	DW	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	08/21/95	DW	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	08/21/95	DW	
1,1,1-Trichloroethane	J1.	µg/L	1.0	2.0	EPA 8260	08/21/95	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.

08/29/95

LJO/jcbgbp(dw)/kwh/sra
LH21VLW1

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1269-6
Report Date: 08/29/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SW006	Aqueous	K. RUSCZYK	08/16/95	08/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	08/21/95	DW	
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	08/21/95	DW	
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	08/21/95	DW	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	08/21/95	DW	
Trichloroethene	J1.	µg/L	1.0	2.5	EPA 8260	08/21/95	DW	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	08/21/95	DW	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	08/21/95	DW	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	08/21/95	DW	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	08/21/95	DW	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	08/21/95	DW	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	08/21/95	DW	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	08/21/95	DW	
Tetrachloroethene	<2.	µg/L	1.0	2.0	EPA 8260	08/21/95	DW	
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	08/21/95	DW	
Toluene	<2.	µg/L	1.0	2.0	EPA 8260	08/21/95	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.

08/29/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1269-6
Report Date: 08/29/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SW006	Aqueous	K. RUSCZYK	08/16/95	08/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	08/21/95	DW	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	08/21/95	DW	
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	08/21/95	DW	
Total Xylenes	<2.	µg/L	1.0	2.0	EPA 8260	08/21/95	DW	
Dibromofluoromethane (Surr.)	115.	%	1.0		EPA 8260	08/21/95	DW	
Toluene-d8 (Surr.)	101.	%	1.0		EPA 8260	08/21/95	DW	
p-Bromofluorobenzene (Surr.)	100.	%	1.0		EPA 8260	08/21/95	DW	
1,2-Dichlorobenzene	<2.	µg/L	1.0	2.0	EPA 8260	08/21/95	DW	
1,3-Dichlorobenzene	<2.	µg/L	1.0	2.0	EPA 8260	08/21/95	DW	
1,4-Dichlorobenzene	<2.	µg/L	1.0	2.0	EPA 8260	08/21/95	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.

08/29/95

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1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

S9SW006

Lab Name: PACE, ME Contract:

Project No.: Site: Location: SDG: S9SW001

Matrix: (soil/water) WATER Lab Sample ID: WL1269-6

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: F2626.D

Level: (low/med) LOW Date Received: 8/17/95

% Moisture: not dec. Date Analyzed: 8/21/95

GC Column: RTX-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Concentration Units:

Number TICs found: 0 (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-1269-3
Report Date: 08/29/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SW003	Aqueous	K. RUSCZYK	08/16/95	08/17/95

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	08/21/95	DW	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	08/21/95	DW	
Vinyl chloride	<2.	µg/L	1.0	2.0	EPA 8260	08/21/95	DW	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	08/21/95	DW	
Methylene chloride	7.	µg/L	1.0	3.0	EPA 8260	08/21/95	DW	
Acetone	JB2	µg/L	1.0	5.0	EPA 8260	08/21/95	DW	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	08/21/95	DW	
1,1-Dichloroethene	<1.	µg/L	1.0	1.0	EPA 8260	08/21/95	DW	
1,1-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	08/21/95	DW	
Total 1,2-Dichloroethene	<2.	µg/L	1.0	2.0	EPA 8260	08/21/95	DW	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	08/21/95	DW	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	08/21/95	DW	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	08/21/95	DW	
1,1,1-Trichloroethane	J1.	µg/L	1.0	2.0	EPA 8260	08/21/95	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.

08/29/95

LJO/jcbgbp(dw)/kwh/sra
LH21VLW1

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

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1269-3
Report Date: 08/29/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SWC03	Aqueous	K. RUSCZYK	08/16/95	08/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	08/21/95	DW	
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	08/21/95	DW	
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	08/21/95	DW	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	08/21/95	DW	
Trichloroethene	<2.5	µg/L	1.0	2.5	EPA 8260	08/21/95	DW	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	08/21/95	DW	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	08/21/95	DW	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	08/21/95	DW	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	08/21/95	DW	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	08/21/95	DW	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	08/21/95	DW	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	08/21/95	DW	
Tetrachloroethene	<2.	µg/L	1.0	2.0	EPA 8260	08/21/95	DW	
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	08/21/95	DW	
Toluene	<2.	µg/L	1.0	2.0	EPA 8260	08/21/95	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.

08/29/95

LJO/jcbgtp(dw)/kwh/sra
LH21VLW1

P.O. Box 720 - 340 County Road #5
Westbrook, ME 04098
TEL: 207-874-2400
FAX: 207-775-4029

An Equal Opportunity Employer

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1269-3
Report Date: 08/29/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SW003	Aqueous	K. RUSCZYK	08/16/95	08/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	08/21/95	DW	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	08/21/95	DW	
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	08/21/95	DW	
Total Xylenes	<2.	µg/L	1.0	2.0	EPA 8260	08/21/95	DW	
Dibromofluoromethane (Surr.)	114.	%	1.0		EPA 8260	08/21/95	DW	
Toluene-d8 (Surr.)	100.	%	1.0		EPA 8260	08/21/95	DW	
p-Bromofluorobenzene (Surr.)	99.	%	1.0		EPA 8260	08/21/95	DW	
1,2-Dichlorobenzene	<2.	µg/L	1.0	2.0	EPA 8260	08/21/95	DW	
1,3-Dichlorobenzene	<2.	µg/L	1.0	2.0	EPA 8260	08/21/95	DW	
1,4-Dichlorobenzene	<2.	µg/L	1.0	2.0	EPA 8260	08/21/95	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.

08/29/95

LJO/jcbgbp(dw)/kwh/sra
LH21VLW1

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

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1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

S9SW003

Lab Name: PACE, ME Contract: _____

Project No.: _____ Site: _____ Location: _____ SDG: S9SW001

Matrix: (soil/water) WATER Lab Sample ID: WL1269-3

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: F2623.D

Level: (low/med) LOW Date Received: 8/17/95

% Moisture: not dec. _____ Date Analyzed: 8/21/95

GC Column: RTX-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs 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

Lab Number : WL-1269-1
Report Date: 08/29/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SW002	Aqueous	K. RUSCZYK	08/16/95	08/17/95

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	08/18/95	DW	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	08/18/95	DW	
Vinyl chloride	<2.	µg/L	1.0	2.0	EPA 8260	08/18/95	DW	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	08/18/95	DW	
Methylene chloride	B20	µg/L	1.0	3.0	EPA 8260	08/18/95	DW	
Acetone	JB2	µg/L	1.0	5.0	EPA 8260	08/18/95	DW	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	08/18/95	DW	
1,1-Dichloroethene	<1.	µg/L	1.0	1.0	EPA 8260	08/18/95	DW	
1,1-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	08/18/95	DW	
Total 1,2-Dichloroethene	<2.	µg/L	1.0	2.0	EPA 8260	08/18/95	DW	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	08/18/95	DW	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	08/18/95	DW	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	08/18/95	DW	
1,1,1-Trichloroethane	3.	µg/L	1.0	2.0	EPA 8260	08/18/95	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.

08/29/95

LJO/jcbgbp(dw)/kwh/sra
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1269-1
Report Date: 08/29/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SW002	Aqueous	K. RUSCZYK	08/16/95	08/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	08/18/95	DW	
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	08/18/95	DW	
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	08/18/95	DW	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	08/18/95	DW	
Trichloroethene	J1.	µg/L	1.0	2.5	EPA 8260	08/18/95	DW	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	08/18/95	DW	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	08/18/95	DW	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	08/18/95	DW	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	08/18/95	DW	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	08/18/95	DW	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	08/18/95	DW	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	08/18/95	DW	
Tetrachloroethene	<2.	µg/L	1.0	2.0	EPA 8260	08/18/95	DW	
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	08/18/95	DW	
Toluene	<2.	µg/L	1.0	2.0	EPA 8260	08/18/95	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.

08/29/95

LJO/jcbgbp(dw)/kwh/sra
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Westbrook, ME 04098
TEL: 207-874-2400
FAX: 207-775-4029

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1269-1
Report Date: 08/29/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SW002	Aqueous	K. RUSCZYK	08/16/95	08/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	08/18/95	DW	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	08/18/95	DW	
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	08/18/95	DW	
Total Xylenes	<2.	µg/L	1.0	2.0	EPA 8260	08/18/95	DW	
Dibromofluoromethane (Surr.)	114.	%	1.0		EPA 8260	08/18/95	DW	
Toluene-d8 (Surr.)	98.	%	1.0		EPA 8260	08/18/95	DW	
p-Bromofluorobenzene (Surr.)	91.	%	1.0		EPA 8260	08/18/95	DW	
1,2-Dichlorobenzene	<2.	µg/L	1.0	2.0	EPA 8260	08/18/95	DW	
1,3-Dichlorobenzene	<2.	µg/L	1.0	2.0	EPA 8260	08/18/95	DW	
1,4-Dichlorobenzene	<2.	µg/L	1.0	2.0	EPA 8260	08/18/95	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.

08/29/95

LJO/jcbgbp(dw)/kwh/sra
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Westbrook, ME 04098
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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

S9SW002

Lab Name: PACE, ME Contract: _____

Project No.: _____ Site: _____ Location: _____ SDG: S9SW001

Matrix: (soil/water) WATER Lab Sample ID: WL1269-1

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: F2607.D

Level: (low/med) LOW Date Received: 8/17/95

% Moisture: not dec. _____ Date Analyzed: 8/18/95

GC Column: RTX-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs 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-1269-5
Report Date: 08/29/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SW005	Aqueous	K. RUSCZYK	08/16/95	08/17/95

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	08/21/95	DW	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	08/21/95	DW	
Vinyl chloride	<2.	µg/L	1.0	2.0	EPA 8260	08/21/95	DW	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	08/21/95	DW	
Methylene chloride	8.	µg/L	1.0	3.0	EPA 8260	08/21/95	DW	
Acetone	JB2	µg/L	1.0	5.0	EPA 8260	08/21/95	DW	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	08/21/95	DW	
1,1-Dichloroethene	<1.	µg/L	1.0	1.0	EPA 8260	08/21/95	DW	
1,1-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	08/21/95	DW	
Total 1,2-Dichloroethene	<2.	µg/L	1.0	2.0	EPA 8260	08/21/95	DW	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	08/21/95	DW	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	08/21/95	DW	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	08/21/95	DW	
1,1,1-Trichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	08/21/95	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.

08/29/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1269-5
Report Date: 08/29/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SW005	Aqueous	K. RUSCZYK	08/16/95	08/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	08/21/95	DW	
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	08/21/95	DW	
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	08/21/95	DW	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	08/21/95	DW	
Trichloroethene	<2.5	µg/L	1.0	2.5	EPA 8260	08/21/95	DW	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	08/21/95	DW	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	08/21/95	DW	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	08/21/95	DW	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	08/21/95	DW	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	08/21/95	DW	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	08/21/95	DW	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	08/21/95	DW	
Tetrachloroethene	<2.	µg/L	1.0	2.0	EPA 8260	08/21/95	DW	
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	08/21/95	DW	
Toluene	J1.	µg/L	1.0	2.0	EPA 8260	08/21/95	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.

08/29/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1269-5
Report Date: 08/29/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SW005	Aqueous	K. RUSCZYK	08/16/95	08/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	08/21/95	DW	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	08/21/95	DW	
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	08/21/95	DW	
Total Xylenes	J1.	µg/L	1.0	2.0	EPA 8260	08/21/95	DW	
Dibromofluoromethane (Surr.)	111.	%	1.0		EPA 8260	08/21/95	DW	
Toluene-d8 (Surr.)	101.	%	1.0		EPA 8260	08/21/95	DW	
p-Bromofluorobenzene (Surr.)	99.	%	1.0		EPA 8260	08/21/95	DW	
1,2-Dichlorobenzene	<2.	µg/L	1.0	2.0	EPA 8260	08/21/95	DW	
1,3-Dichlorobenzene	<2.	µg/L	1.0	2.0	EPA 8260	08/21/95	DW	
1,4-Dichlorobenzene	<2.	µg/L	1.0	2.0	EPA 8260	08/21/95	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.

08/29/95

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

S9SW005

Lab Name: PACE, ME Contract: _____

Project No.: _____ Site: _____ Location: _____ SDG: S9SW001

Matrix: (soil/water) WATER Lab Sample ID: WL1269-5

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: F2625.D

Level: (low/med) LOW Date Received: 8/17/95

% Moisture: not dec. _____ Date Analyzed: 8/21/95

GC Column: RTX-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs 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-1269-4
Report Date: 08/29/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SW004	Aqueous	K. RUSCZYK	08/16/95	08/17/95

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	08/21/95	DW	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	08/21/95	DW	
Vinyl chloride	<2.	µg/L	1.0	2.0	EPA 8260	08/21/95	DW	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	08/21/95	DW	
Methylene chloride	7.	µg/L	1.0	3.0	EPA 8260	08/21/95	DW	
Acetone	JB2	µg/L	1.0	5.0	EPA 8260	08/21/95	DW	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	08/21/95	DW	
1,1-Dichloroethene	<1.	µg/L	1.0	1.0	EPA 8260	08/21/95	DW	
1,1-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	08/21/95	DW	
Total 1,2-Dichloroethene	7.	µg/L	1.0	2.0	EPA 8260	08/21/95	DW	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	08/21/95	DW	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	08/21/95	DW	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	08/21/95	DW	
1,1,1-Trichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	08/21/95	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.

08/29/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1269-4
Report Date: 08/29/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SW004	Aqueous	K. RUSCZYK	08/16/95	08/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	08/21/95	DW	
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	08/21/95	DW	
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	08/21/95	DW	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	08/21/95	DW	
Trichloroethene	J1	µg/L	1.0	2.5	EPA 8260	08/21/95	DW	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	08/21/95	DW	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	08/21/95	DW	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	08/21/95	DW	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	08/21/95	DW	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	08/21/95	DW	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	08/21/95	DW	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	08/21/95	DW	
Tetrachloroethene	<2.	µg/L	1.0	2.0	EPA 8260	08/21/95	DW	
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	08/21/95	DW	
Toluene	<2.	µg/L	1.0	2.0	EPA 8260	08/21/95	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.

08/29/95

LJO/jcbgbp(dw)/kwh/sra
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TEL: 207-874-2400
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1269-4
Report Date: 08/29/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SW004	Aqueous	K. RUSCZYK	08/16/95	08/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	08/21/95	DW	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	08/21/95	DW	
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	08/21/95	DW	
Total Xylenes	<2.	µg/L	1.0	2.0	EPA 8260	08/21/95	DW	
Dibromofluoromethane (Surr.)	115.	%	1.0		EPA 8260	08/21/95	DW	
Toluene-d8 (Surr.)	101.	%	1.0		EPA 8260	08/21/95	DW	
p-Bromofluorobenzene (Surr.)	100.	%	1.0		EPA 8260	08/21/95	DW	
1,2-Dichlorobenzene	<2.	µg/L	1.0	2.0	EPA 8260	08/21/95	DW	
1,3-Dichlorobenzene	<2.	µg/L	1.0	2.0	EPA 8260	08/21/95	DW	
1,4-Dichlorobenzene	<2.	µg/L	1.0	2.0	EPA 8260	08/21/95	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.

08/29/95

LJO/jcbgbp(dw)/kwh/sra
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Westbrook, ME 04098
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1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

S9SW004

Lab Name: PACE, ME Contract: _____

Project No.: _____ Site: _____ Location: _____ SDG: S9SW001

Matrix: (soil/water) WATER Lab Sample ID: WL1269-4

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: F2624.D

Level: (low/med) LOW Date Received: 8/17/95

% Moisture: not dec. _____ Date Analyzed: 8/21/95

GC Column: RTX-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs 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-1269-7
Report Date: 08/29/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SWXD1	Aqueous	K. RUSCZYK	08/16/95	08/17/95

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	08/21/95	DW	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	08/21/95	DW	
Vinyl chloride	<2.	µg/L	1.0	2.0	EPA 8260	08/21/95	DW	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	08/21/95	DW	
Methylene chloride	6.	µg/L	1.0	3.0	EPA 8260	08/21/95	DW	
Acetone	JB2	µg/L	1.0	5.0	EPA 8260	08/21/95	DW	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	08/21/95	DW	
1,1-Dichloroethene	<1.	µg/L	1.0	1.0	EPA 8260	08/21/95	DW	
1,1-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	08/21/95	DW	
Total 1,2-Dichloroethene	<2.	µg/L	1.0	2.0	EPA 8260	08/21/95	DW	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	08/21/95	DW	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	08/21/95	DW	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	08/21/95	DW	
1,1,1-Trichloroethane	J1.	µg/L	1.0	2.0	EPA 8260	08/21/95	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.

08/29/95

LJO/jcbgbp(dw)/kwh/sra
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1269-7
Report Date: 08/29/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SWXD1	Aqueous	K. RUSCZYK	08/16/95	08/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	08/21/95	DW	
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	08/21/95	DW	
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	08/21/95	DW	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	08/21/95	DW	
Trichloroethene	J1.	µg/L	1.0	2.5	EPA 8260	08/21/95	DW	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	08/21/95	DW	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	08/21/95	DW	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	08/21/95	DW	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	08/21/95	DW	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	08/21/95	DW	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	08/21/95	DW	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	08/21/95	DW	
Tetrachloroethene	<2.	µg/L	1.0	2.0	EPA 8260	08/21/95	DW	
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	08/21/95	DW	
Toluene	<2.	µg/L	1.0	2.0	EPA 8260	08/21/95	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.

08/29/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1269-7
Report Date: 08/29/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SWXD1	Aqueous	K. RUSCZYK	08/16/95	08/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	08/21/95	DW	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	08/21/95	DW	
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	08/21/95	DW	
Total Xylenes	<2.	µg/L	1.0	2.0	EPA 8260	08/21/95	DW	
Dibromofluoromethane (Surr.)	101.	%	1.0		EPA 8260	08/21/95	DW	
Toluene-d8 (Surr.)	101.	%	1.0		EPA 8260	08/21/95	DW	
p-Bromofluorobenzene (Surr.)	101.	%	1.0		EPA 8260	08/21/95	DW	
1,2-Dichlorobenzene	<2.	µg/L	1.0	2.0	EPA 8260	08/21/95	DW	
1,3-Dichlorobenzene	<2.	µg/L	1.0	2.0	EPA 8260	08/21/95	DW	
1,4-Dichlorobenzene	<2.	µg/L	1.0	2.0	EPA 8260	08/21/95	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.

08/29/95

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

SAMPLE NO.
S9SWXD1

Lab Name: PACE, ME Contract: _____

Project No.: _____ Site: _____ Location: _____ SDG: S9SW001

Matrix: (soil/water) WATER Lab Sample ID: WL1269-7

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: F2627.D

Level: (low/med) LOW Date Received: 8/17/95

% Moisture: not dec. _____ Date Analyzed: 8/21/95

GC Column: RTX-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs 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-1269-2
Report Date: 08/29/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SW001	Aqueous	K. RUSCZYK	08/16/95	08/17/95

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	08/21/95	DW	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	08/21/95	DW	
Vinyl chloride	<2.	µg/L	1.0	2.0	EPA 8260	08/21/95	DW	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	08/21/95	DW	
Methylene chloride	J1.	µg/L	1.0	3.0	EPA 8260	08/21/95	DW	
Acetone	JB1	µg/L	1.0	5.0	EPA 8260	08/21/95	DW	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	08/21/95	DW	
1,1-Dichloroethene	<1.	µg/L	1.0	1.0	EPA 8260	08/21/95	DW	
1,1-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	08/21/95	DW	
Total 1,2-Dichloroethene	<2.	µg/L	1.0	2.0	EPA 8260	08/21/95	DW	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	08/21/95	DW	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	08/21/95	DW	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	08/21/95	DW	
1,1,1-Trichloroethane	J1.	µg/L	1.0	2.0	EPA 8260	08/21/95	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.

08/29/95

LJO/jcbgbp(dw)/kwh/sra
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1269-2
Report Date: 08/29/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SW001	Aqueous	K. RUSCZYK	08/16/95	08/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	08/21/95	DW	
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	08/21/95	DW	
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	08/21/95	DW	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	08/21/95	DW	
Trichloroethene	<2.5	µg/L	1.0	2.5	EPA 8260	08/21/95	DW	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	08/21/95	DW	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	08/21/95	DW	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	08/21/95	DW	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	08/21/95	DW	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	08/21/95	DW	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	08/21/95	DW	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	08/21/95	DW	
Tetrachloroethene	<2.	µg/L	1.0	2.0	EPA 8260	08/21/95	DW	
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	08/21/95	DW	
Toluene	<2.	µg/L	1.0	2.0	EPA 8260	08/21/95	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.

08/29/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1269-2
Report Date: 08/29/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SW001	Aqueous	K. RUSCZYK	08/16/95	08/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	08/21/95	DW	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	08/21/95	DW	
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	08/21/95	DW	
Total Xylenes	<2.	µg/L	1.0	2.0	EPA 8260	08/21/95	DW	
Dibromofluoromethane (Surr.)	117.	%	1.0		EPA 8260	08/21/95	DW	
Toluene-d8 (Surr.)	100.	%	1.0		EPA 8260	08/21/95	DW	
p-Bromofluorobenzene (Surr.)	103.	%	1.0		EPA 8260	08/21/95	DW	
1,2-Dichlorobenzene	<2.	µg/L	1.0	2.0	EPA 8260	08/21/95	DW	
1,3-Dichlorobenzene	<2.	µg/L	1.0	2.0	EPA 8260	08/21/95	DW	
1,4-Dichlorobenzene	<2.	µg/L	1.0	2.0	EPA 8260	08/21/95	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.

08/29/95

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

SAMPLE NO.
S9SW001

Lab Name: PACE, ME Contract: _____

Project No.: _____ Site: _____ Location: _____ SDG: S9SW001

Matrix: (soil/water) WATER Lab Sample ID: WL1269-2

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: F2622.D

Level: (low/med) LOW Date Received: 8/17/95

% Moisture: not dec. _____ Date Analyzed: 8/21/95

GC Column: RTX-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs 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-1270-2
Report Date: 09/06/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9QT010	Aqueous	K. RUSCZYK	08/16/95	08/17/95

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	08/22/95	DW	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
Vinyl chloride	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
Methylene chloride	B5	µg/L	1.0	3.0	EPA 8260	08/22/95	DW	
Acetone	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
1,1-Dichloroethene	<1.	µg/L	1.0	1.0	EPA 8260	08/22/95	DW	
1,1-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
Total 1,2-Dichloroethene	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
1,2-Dichloroethane	J1	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
1,1,1-Trichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	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.
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09/06/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1270-2
Report Date: 09/06/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9QT010	Aqueous	K. RUSCZYK	08/16/95	08/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	08/22/95	DW	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
Trichloroethene	<2.5	µg/L	1.0	2.5	EPA 8260	08/22/95	DW	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	08/22/95	DW	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	08/22/95	DW	
Tetrachloroethene	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
Toluene	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	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.

09/06/95

LJO/jcbgbp(dw)/kwh/sra
IH22VLN1

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1270-2
Report Date: 09/06/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9QT010	Aqueous	K. RUSCZYK	08/16/95	08/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
Total Xylenes	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
Dibromofluoromethane (Surr.)	108.	%	1.0		EPA 8260	08/22/95	DW	
Toluene-d8 (Surr.)	97.	%	1.0		EPA 8260	08/22/95	DW	
p-Bromofluorobenzene (Surr.)	97.	%	1.0		EPA 8260	08/22/95	DW	
1,2-Dichlorobenzene	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
1,3-Dichlorobenzene	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
1,4-Dichlorobenzene	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	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.

09/06/95

LJO/jcbgbp (dw) /kwh/sra
LH22VLW1

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

S9QT010

Lab Name: PACE, ME Contract: _____

Project No.: EA Site: _____ Location: _____ SDG: S9LT001

Matrix: (soil/water) WATER Lab Sample ID: WL1270-2

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: F2673.D

Level: (low/med) LOW Date Received: 8/17/95

% Moisture: not dec. _____ Date Analyzed: 8/22/95

GC Column: RTX-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Concentration Units:

Number TICs found: 0 (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-1270-3
Report Date: 09/06/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9QS003	Aqueous	K. RUSCZYK	08/16/95	08/17/95

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	08/22/95	DW	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
Vinyl chloride	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
Methylene chloride	B4	µg/L	1.0	3.0	EPA 8260	08/22/95	DW	
Acetone	JB1	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
1,1-Dichloroethene	<1.	µg/L	1.0	1.0	EPA 8260	08/22/95	DW	
1,1-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
Total 1,2-Dichloroethene	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
2-Butanone	JB1	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
1,1,1-Trichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	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.

09/06/95

LJO/jcbgtp(dw)/kwh/sra
IH22VLW1

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1270-3
Report Date: 09/06/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9QS003	Aqueous	K. RUSCZYK	08/16/95	08/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	08/22/95	DW	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
Trichloroethene	<2.5	µg/L	1.0	2.5	EPA 8260	08/22/95	DW	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	08/22/95	DW	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	08/22/95	DW	
Tetrachloroethene	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
Toluene	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	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.

09/06/95

LJO/jcbgbp (dw) /kwh/sra
LH22VLW1

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1270-3
Report Date: 09/06/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9QS003	Aqueous	K. RUSCZYK	08/16/95	08/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
Total Xylenes	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
Dibromofluoromethane (Surr.)	112.	%	1.0		EPA 8260	08/22/95	DW	
Toluene-d8 (Surr.)	98.	%	1.0		EPA 8260	08/22/95	DW	
p-Bromofluorobenzene (Surr.)	99.	%	1.0		EPA 8260	08/22/95	DW	
1,2-Dichlorobenzene	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
1,3-Dichlorobenzene	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
1,4-Dichlorobenzene	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	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

09/06/95

LJO/jcbgbp(dw) /kwh/sra
IH22VLW1

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

S9QS003

Lab Name: PACE, ME Contract: _____

Project No.: EA Site: _____ Location: _____ SDG: S9LT001

Matrix: (soil/water) WATER Lab Sample ID: WL1270-3

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: F2674.D

Level: (low/med) LOW Date Received: 8/17/95

% Moisture: not dec. _____ Date Analyzed: 8/22/95

GC Column: RTX-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs 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-1185-2
Report Date: 08/29/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S1QD001	Aqueous	B. ANDERSEN	08/03/95	08/04/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Volatile Organics by EPA 8260								
Chloromethane	<5.	µg/L	1.0	5.0	EPA 8260	08/04/95	DW	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	08/04/95	DW	
Vinyl chloride	<2.	µg/L	1.0	2.0	EPA 8260	08/04/95	DW	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	08/04/95	DW	
Methylene chloride	B6	µg/L	1.0	3.0	EPA 8260	08/04/95	DW	
Acetone	<5.	µg/L	1.0	5.0	EPA 8260	08/04/95	DW	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	08/04/95	DW	
1,1-Dichloroethene	<1.	µg/L	1.0	1.0	EPA 8260	08/04/95	DW	
1,1-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	08/04/95	DW	
Total 1,2-Dichloroethene	<2.	µg/L	1.0	2.0	EPA 8260	08/04/95	DW	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	08/04/95	DW	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	08/04/95	DW	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	08/04/95	DW	
1,1,1-Trichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	08/04/95	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.

08/29/95

LJO/jcbaaw/kwh/spg(dw)/sra
LH04VLM1

P.O. Box 720 - 340 County Road #5
Westbrook, ME 04098
TEL: 207-874-2400
FAX: 207-775-4029

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1185-2
Report Date: 08/29/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S1QD001	Aqueous	B. ANDERSEN	08/03/95	08/04/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	08/04/95	DW	
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	08/04/95	DW	
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	08/04/95	DW	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	08/04/95	DW	
Trichloroethene	<2.5	µg/L	1.0	2.5	EPA 8260	08/04/95	DW	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	08/04/95	DW	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	08/04/95	DW	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	08/04/95	DW	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	08/04/95	DW	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	08/04/95	DW	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	08/04/95	DW	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	08/04/95	DW	
Tetrachloroethene	<2.	µg/L	1.0	2.0	EPA 8260	08/04/95	DW	
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	08/04/95	DW	
Toluene	<2.	µg/L	1.0	2.0	EPA 8260	08/04/95	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.

08/29/95

LJD/jcbeaw/lmh/spg(dw)/sra
LH04VLW1

P.O. Box 720 - 340 County Road #5
Westbrook, ME 04098
TEL: 207-874-2400
FAX: 207-775-4029

An Equal Opportunity Employer

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1185-2
Report Date: 08/29/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S1QD001	Aqueous	B. ANDERSEN	08/03/95	08/04/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	08/04/95	DW	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	08/04/95	DW	
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	08/04/95	DW	
Total Xylenes	J1	µg/L	1.0	2.0	EPA 8260	08/04/95	DW	
Dibromofluoromethane (Surr.)	100.	%	1.0		EPA 8260	08/04/95	DW	
Toluene-d8 (Surr.)	101.	%	1.0		EPA 8260	08/04/95	DW	
p-Bromofluorobenzene (Surr.)	98.	%	1.0		EPA 8260	08/04/95	DW	
1,2-Dichlorobenzene	<2.	µg/L	1.0	2.0	EPA 8260	08/04/95	DW	
1,3-Dichlorobenzene	<2.	µg/L	1.0	2.0	EPA 8260	08/04/95	DW	
1,4-Dichlorobenzene	<2.	µg/L	1.0	2.0	EPA 8260	08/04/95	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.

08/29/95

LJO/jcbeaw/kwh/spg(dw)/sra
IH04VLW1

P.O. Box 720 - 340 County Road #5
Westbrook, ME 04098
TEL: 207-874-2400
FAX: 207-775-4029

An Equal Opportunity Employer

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
S1QD001

Lab Name: PACE, ME Contract:

Project No.: Site: Location: SDG: S1SW001

Matrix: (soil/water) WATER Lab Sample ID: WL1185-2

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: Y0594

Level: (low/med) LOW Date Received: 8/4/95

% Moisture: not dec. Date Analyzed: 8/4/95

GC Column: RTX-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Concentration Units:
(ug/L or ug/Kg) ug/L

Number TICs found: 0

CAS Number	Compound Name	RT	Est. Conc.	Q
1.				
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248086

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

CHAIN-OF-CUSTODY RECORD
Analytical Request

Client: EA Engineering
Address: Old Gurnet Road
Brunswick, Me 04011-5000
Phone: (207) 798-5977

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

Pace Client No.:
Pace Project Manager:
Pace Project No.: M1269
*Requested Due Date:

Sampled By (PRINT): Karen Ruszczyk 08/16/95
Sampler Signature: Karen Ruszczyk
Date Sampled: 08/16/95

ITEM NO.	SAMPLE DESCRIPTION	TIME	MATRIX	PACE NO.	NO. OF CONTAINERS	UNPRESERVED	H_2SO_4	HNO_3	VOA-HCl			VOC's	SVOC's		REMARKS
1	BN-03-S9-SW001	0845	water	2	2				X			X		S9SW001	VOA's by 8260
2	BN-03-S9-SW002 MS/MSD	0935	water	1	6				X			X		S9SW002	Plus library
3	BN-03-S9-SW003	1015	water	3	2				X			X		S9SW003	search.
4	BN-03-S9-SW004	1115	water	4	2				X			X		S9SW004	SVOC's by 8270A
5	BN-03-S9-SW005	1155	water	5	2				X			X		S9SW005	Plus library Search
6	BN-03-S9-SW006	1240	water	6	2				X			X		S9SW006	
7	BN-03-S9-SWXD1		water	7	2				X			X		S9SWXD1	CC 8/17/95
~~8~~	~~BN-03-S9-QS004~~	~~1455~~	~~water~~		~~4~~		X		X			X	X		

COOLER NOS.	BAILERS	SHIPMENT METHOD OUT DATE	RETURNED DATE

ITEM NUMBER	RELINQUISHED BY / AFFILIATION	ACCEPTED BY / AFFILIATION	DATE	TIME
	Cooler Cooler EA 8/17/95 0917	Shawn Green	08/17/95	0917
	Shawn Green	[signature]	08/17/95	1115

Additional Comments
This is SDG BN-03-S9-SW001 Complete
Trip blank BN-03-S9@T010 will be sent with this shipment. (See COC # 248091)
Temp blank Included.

Cooler Temp. 3°C

SEE REVERSE SIDE FOR INSTRUCTIONS

ORIGINAL

248063

pace
ENVIRONMENTAL LABORATORIES

CHAIN-OF-CUSTODY RECORD
Analytical Request

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

Report To: Mike Battle
Bill To: EA Newburgh
P.O. # / Billing Reference
Project Name / No. BNAS 29603.47 7200

Pace Client No.
Pace Project Manager
Pace Project No. WR 1185
*Requested Due Date:

Sampled By (PRINT): Berman D. Andersen
Sampler Signature: Berman D. Andersen
Date Sampled: 8/3/95

X	ITEM NO.	SAMPLE DESCRIPTION	TIME	MATRIX	PACE NO.	NO. OF CONTAINERS	UNPRESERVED	H_2SO_4	HNO_3	VOA-HCL	NaOH		VOCs	TAL Elements	Cyanide			REMARKS
X	1	BN-05-S1-QB001	1145	Water	2	4			X	X	X		X	X	X		S1SD001	VOAs by 8260 plus
X	2	BN-05-S1-QS001	1210	Water	3	4			X	X	X		X	X	X		S1QS001	Library Search
X	3	BN-05-S1-QS002	1200	Water	4	4			X	X	X		X	X	X		S1QS002	TAL Elements +
X	4	BN-05-S1-SW001	1242	Water	5	4			X	X	X		X	X	X		S1SW001	Cyanide refer to
X	5	BN-05-S1-SW002	1345	Water	6	4			X	X	X		X	X	X		S1SW002	Table 7-1 in QCAP
X	6	BN-05-S1-SW003 (MSWD)	1515	Water	7	10			X	X	X		X	X	X		S1SW003	
X	7	BN-05-S1-SW004	1625	Water	7	4			X	X	X		X	X	X		S1SW004	
X	8	BN-05-S1-SW005	1700	Water	8	4			X	X	X		X	X	X		S1SW005	

COOLER NOS.	BAILERS	SHIPMENT METHOD OUT DATE	RETURNED DATE

ITEM NUMBER	RELINQUISHED BY	AFFILIATION	ACCEPTED BY	AFFILIATION	DATE	TIME
	Guy Cribbs	EA NAS Brun	Shawn Green		08/4/95	0815
	Shawn Green		[illegible]		08/4/95	1100

Additional Comments
Page 1 of 2 of SDG BN-05-S1-SW001

SDG: S1SW001

SEE REVERSE SIDE FOR INSTRUCTIONS

ORIGINAL

248091

pace INCORPORATED
VIRONMENTAL LABORATORIES

CHAIN-OF-CUSTODY RECORD
Analytical Request

nt EA Engineering
ress Old Gurnet Road
runswick, Me 04011-5000
ne (207) 798-5977

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

Pace Client No.
Pace Project Manager
Pace Project No. WR1270
*Requested Due Date:

pled By (PRINT): Karen Ruszczyk 08/16/95
pler Signature: Karen Ruszczyk
Date Sampled: 08/16/95

M D	SAMPLE DESCRIPTION	TIME	MATRIX	PACE NO.	NO. OF CONTAINERS	UNPRESERVED	H_2SO_4	HNO_3	VOA-HCl	NaOH		VOCs	Metals	CN	SVOCs					REMARKS
	BN-03-S9-LT001 ms/msD	1315	Water		10			X	X	X		X	X	X		S9LT001				VOA's by 8260,
	BN-03-S9-QT010	0845	Water		2				X			X				S9QT010				plus library search.
	BN-03-S9-QS003	1450	Water		4			X	X	X		X	X	X		S9QS003				Report to Tabby
																				Return QAPP

COOLER NOS.	BAILERS	SHIPMENT METHOD OUT DATE	RETURNED DATE	ITEM NUMBER	RELINQUISHED BY AFFILIATION	ACCEPTED BY AFFILIATION	DATE	TIME
					Cay Cooke EA 08/17/95 0915	Sharon Green	08/18	0917
					Sharon Green	[illegible]	08/18/95	1115

itional Comments
is is SDG BN-03-S9-LT001 Complete
p blank included

Cooler Temp: 3.4°C

SEE REVERSE SIDE FOR INSTRUCTIONS

8000008

Appendix E.3

Sediment Samples
Site 9

APPENDIX E-3

SAMPLE KEY - SITE 9
NAVAL AIR STATION, BRUNSWICK, MAINE

Sample Designation	Sample Station
Sediment	
S9-SD006	SED-010
S9-SD003	SED-011
S9-SD002	SED-012
S9-SD005	SED-915
S9-SD004	SED-919
S9-SDXD1	SED-919 (DUP)
S9-SD001	SED-922

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1267-5
Report Date: 09/19/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SD006	Solid	K. RUSCZYK	08/16/95	08/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Volatile Organics by EPA 8260								1,2,3,4
Reanalysis								
Chloromethane	<7.	µg/kgdrywt	1.3	5.0	EPA 8260	08/29/95	TG	
Bromomethane	<7.	µg/kgdrywt	1.3	5.0	EPA 8260	08/29/95	TG	
Vinyl chloride	5.	µg/kgdrywt	1.3	2.0	EPA 8260	08/29/95	TG	
Chloroethane	<3.	µg/kgdrywt	1.3	2.0	EPA 8260	08/29/95	TG	
Methylene chloride	B13	µg/kgdrywt	1.3	3.0	EPA 8260	08/29/95	TG	
Acetone	JB4	µg/kgdrywt	1.3	5.0	EPA 8260	08/29/95	TG	
Carbon disulfide	<7.	µg/kgdrywt	1.3	5.0	EPA 8260	08/29/95	TG	
1,1-Dichloroethene	<1.	µg/kgdrywt	1.3	1.0	EPA 8260	08/29/95	TG	
1,1-Dichloroethane	<3.	µg/kgdrywt	1.3	2.0	EPA 8260	08/29/95	TG	
Total 1,2-Dichloroethene	19.	µg/kgdrywt	1.3	2.0	EPA 8260	08/29/95	TG	
Chloroform	<7.	µg/kgdrywt	1.3	5.0	EPA 8260	08/29/95	TG	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

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

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

(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.

09/19/95

LJO/jcbeaw/gbp(dw)/kwh
LH29VLS1

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Westbrook, ME 04098
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ENVIRONMENTAL LABORATORIES

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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SD006	Solid	K. RUSCZYK	08/16/95	08/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
1,2-Dichloroethane	<3.	µg/kgdrywt	1.3	2.0	EPA 8260	08/29/95	TG	
2-Butanone	<7.	µg/kgdrywt	1.3	5.0	EPA 8260	08/29/95	TG	
1,1,1-Trichloroethane	<3.	µg/kgdrywt	1.3	2.0	EPA 8260	08/29/95	TG	
Carbon tetrachloride	<7.	µg/kgdrywt	1.3	5.0	EPA 8260	08/29/95	TG	
Bromodichloromethane	<7.	µg/kgdrywt	1.3	5.0	EPA 8260	08/29/95	TG	
1,2-Dichloropropane	<3.	µg/kgdrywt	1.3	2.5	EPA 8260	08/29/95	TG	
cis-1,3-Dichloropropene	<7.	µg/kgdrywt	1.3	5.0	EPA 8260	08/29/95	TG	
Trichloroethene	7.	µg/kgdrywt	1.3	2.5	EPA 8260	08/29/95	TG	
Dibromochloromethane	<7.	µg/kgdrywt	1.3	5.0	EPA 8260	08/29/95	TG	
1,1,2-Trichloroethane	<7.	µg/kgdrywt	1.3	5.0	EPA 8260	08/29/95	TG	
Benzene	<3.	µg/kgdrywt	1.3	2.0	EPA 8260	08/29/95	TG	
trans-1,3-Dichloropropene	<7.	µg/kgdrywt	1.3	5.0	EPA 8260	08/29/95	TG	
Bromoform	<7.	µg/kgdrywt	1.3	5.0	EPA 8260	08/29/95	TG	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

09/19/95

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Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SD006	Solid	K. RUSCZYK	08/16/95	08/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
4-Methyl-2-pentanone	<4.	µg/kgdrywt	1.3	3.0	EPA 8260	08/29/95	TG	
2-Hexanone	<5.	µg/kgdrywt	1.3	4.0	EPA 8260	08/29/95	TG	
Tetrachloroethene	JB3	µg/kgdrywt	1.3	2.0	EPA 8260	08/29/95	TG	
1,1,2,2-Tetrachloroethane	J1	µg/kgdrywt	1.3	5.0	EPA 8260	08/29/95	TG	
Toluene	JB1	µg/kgdrywt	1.3	2.0	EPA 8260	08/29/95	TG	
Chlorobenzene	<7.	µg/kgdrywt	1.3	5.0	EPA 8260	08/29/95	TG	
Ethylbenzene	<3.	µg/kgdrywt	1.3	2.0	EPA 8260	08/29/95	TG	
Styrene	<3.	µg/kgdrywt	1.3	2.0	EPA 8260	08/29/95	TG	
Total Xylenes	<3.	µg/kgdrywt	1.3	2.0	EPA 8260	08/29/95	TG	
Dibromofluoromethane (Surr.)	115.	%	1.3		EPA 8260	08/29/95	TG	
Toluene-d8 (Surr.)	91.	%	1.3		EPA 8260	08/29/95	TG	
p-Bromofluorobenzene (Surr.)	72$	%	1.3		EPA 8260	08/29/95	TG	
1,2-Dichlorobenzene	<3.	µg/kgdrywt	1.3	2.0	EPA 8260	08/29/95	TG	

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09/19/95

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Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SD006	Solid	K. RUSCZYK	08/16/95	08/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
1,3-Dichlorobenzene	<3.	µg/kgdrywt	1.3	2.0	EPA 8260	08/29/95	TG	
1,4-Dichlorobenzene	<3.	µg/kgdrywt	1.3	2.0	EPA 8260	08/29/95	TG	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

09/19/95

LJO/jcbeaw/gbp (dw) /kwh
LH29VLS1

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
S9SD006RE

Lab Name: PACE, ME Contract: _____

Project No.: _____ Site: _____ Location: _____ Group: _____

Matrix: (soil/water) SOIL Lab Sample ID: WL1267-5RE

Sample wt/vol: 5.0 (g/mL) g Lab File ID: F2799.D

Level: (low/med) LOW Date Received: 8/17/95

% Moisture: not dec. 25 Date Analyzed: 8/29/95

GC Column: RTX-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 0 Concentration Units: (ug/L or ug/Kg) ug/kg

CAS Number	Compound Name	RT	Est. Conc.	Q
1.				
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pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1267-5
Report Date: 09/19/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SD006	Solid	K. RUSCZYK	08/16/95	08/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
RE TCL Semivolatile Organics by USEPA 8270								1,2,3
Phenol	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/04/95	JC	
bis(2-Chloroethyl)ether	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/04/95	JC	
2-Chlorophenol	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/04/95	JC	
1,3-Dichlorobenzene	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/04/95	JC	
1,4-Dichlorobenzene	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/04/95	JC	
1,2-Dichlorobenzene	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/04/95	JC	
2-Methylphenol	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/04/95	JC	
bis(2-Chloroisopropyl) ether	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/04/95	JC	
4-Methylphenol	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/04/95	JC	
n-Nitroso-dipropylamine	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/04/95	JC	
Hexachloroethane	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/04/95	JC	
Nitrobenzene	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/04/95	JC	

* PQL (Practical 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 08/24/95 by MAM using EPA 3550
(2) "J" flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.
(3) Internal standard area(s) are out of criteria. Reanalysis confirmed matrix interference.

09/19/95

LJO/jcbajc/gbp(dw)/kwh/sra
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Westbrook, ME 04098
TEL: 207-874-2400
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SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SD006	Solid	K. RUSCZYK	08/16/95	08/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Isophorone	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/04/95	JC	
2-Nitrophenol	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/04/95	JC	
2,4-Dimethylphenol	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/04/95	JC	
bis(2-Chloroethoxy)methane	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/04/95	JC	
2,4-Dichlorophenol	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/04/95	JC	
1,2,4-Trichlorobenzene	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/04/95	JC	
Naphthalene	J130	µg/kgdrywt	1.3	330	EPA 8270	09/04/95	JC	
4-Chloroaniline	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/04/95	JC	
Hexachlorobutadiene	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/04/95	JC	
4-Chloro-3-methylphenol	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/04/95	JC	
2-Methylnaphthalene	J68	µg/kgdrywt	1.3	330	EPA 8270	09/04/95	JC	
Hexachlorocyclopentadiene	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/04/95	JC	
2,4,6-Trichlorophenol	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/04/95	JC	
2,4,5-Trichlorophenol	<1100.	µg/kgdrywt	1.3	820	EPA 8270	09/04/95	JC	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

09/19/95

LJO/jcbajc/gbp(dw)/kmh/sra
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SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SD006	Solid	K. RUSCZYK	08/16/95	08/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
2-Chloronaphthalene	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/04/95	JC	
2-Nitroaniline	<1100.	µg/kgdrywt	1.3	820	EPA 8270	09/04/95	JC	
Dimethylphthalate	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/04/95	JC	
Acenaphthylene	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/04/95	JC	
2,6-Dinitrotoluene	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/04/95	JC	
3-Nitroaniline	<1100.	µg/kgdrywt	1.3	820	EPA 8270	09/04/95	JC	
Acenaphthene	J380	µg/kgdrywt	1.3	330	EPA 8270	09/04/95	JC	
2,4-Dinitrophenol	<1100.	µg/kgdrywt	1.3	820	EPA 8270	09/04/95	JC	
4-Nitrophenol	<1100.	µg/kgdrywt	1.3	820	EPA 8270	09/04/95	JC	
Dibenzofuran	J230	µg/kgdrywt	1.3	330	EPA 8270	09/04/95	JC	
2,4-Dinitrotoluene	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/04/95	JC	
Diethylphthalate	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/04/95	JC	
4-Chlorophenyl phenyl ether	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/04/95	JC	
Fluorene	470.	µg/kgdrywt	1.3	330	EPA 8270	09/04/95	JC	

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09/19/95

LJO/jcbajc/gbp(dw)/kwh/sra
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SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SD006	Solid	K. RUSCZYK	08/16/95	08/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
4-Nitroaniline	<1100.	µg/kgdrywt	1.3	820	EPA 8270	09/04/95	JC	
4,6-Dinitro-2-methylphenol	<1100.	µg/kgdrywt	1.3	820	EPA 8270	09/04/95	JC	
n-Nitrosodiphenylamine	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/04/95	JC	
4-Bromophenyl phenyl ether	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/04/95	JC	
Hexachlorobenzene	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/04/95	JC	
Pentachlorophenol	<1100.	µg/kgdrywt	1.3	820	EPA 8270	09/04/95	JC	
Phenanthrene	3400.	µg/kgdrywt	1.3	330	EPA 8270	09/04/95	JC	
Anthracene	640.	µg/kgdrywt	1.3	330	EPA 8270	09/04/95	JC	
Carbazole	520.	µg/kgdrywt	1.3	330	EPA 8270	09/04/95	JC	
Di-n-butylphthalate	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/04/95	JC	
Fluoranthene	4800.	µg/kgdrywt	1.3	330	EPA 8270	09/04/95	JC	
Pyrene	3000.	µg/kgdrywt	1.3	330	EPA 8270	09/04/95	JC	
Butyl benzylphthalate	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/04/95	JC	
3,3'-Dichlorobenzidine	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/04/95	JC	

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09/19/95

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EA Engineering
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Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SD0C6	Solid	K. RUSCZYK	08/16/95	08/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Benzo(a)anthracene	1800.	µg/kgdrywt	1.3	330	EPA 8270	09/04/95	JC	
Chrysene	1700.	µg/kgdrywt	1.3	330	EPA 8270	09/04/95	JC	
bis(2-Ethylhexyl)phthalate	440.	µg/kgdrywt	1.3	330	EPA 8270	09/04/95	JC	
Di-n-octylphthalate	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/04/95	JC	
Benzo(b)fluoranthene	2200.	µg/kgdrywt	1.3	330	EPA 8270	09/04/95	JC	
Benzo(k)fluoranthene	750.	µg/kgdrywt	1.3	330	EPA 8270	09/04/95	JC	
Benzo(a)pyrene	1600.	µg/kgdrywt	1.3	330	EPA 8270	09/04/95	JC	
Indeno(1,2,3-cd)pyrene	1200.	µg/kgdrywt	1.3	330	EPA 8270	09/04/95	JC	
Dibenzo(a,h)anthracene	J310	µg/kgdrywt	1.3	330	EPA 8270	09/04/95	JC	
Benzo(g,h,i)perylene	1200.	µg/kgdrywt	1.3	330	EPA 8270	09/04/95	JC	
2-Fluorophenol(Surr.)	81.	%	1.3		EPA 8270	09/04/95	JC	
Phenol-d5(Surr.)	87.	%	1.3		EPA 8270	09/04/95	JC	
Nitrobenzene-d5(Surr.)	87.	%	1.3		EPA 8270	09/04/95	JC	
2-Fluorobiphenyl(Surr.)	105.	%	1.3		EPA 8270	09/04/95	JC	

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09/19/95

LJD/jcbajc/gbp(dw)/kwh/sra
LH24S1

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S9SD006	Solid	K. RUSCZYK	08/16/95	08/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
2,4,6-Tribromophenol (Surr.)	96.	%	1.3		EPA 8270	09/04/95	JC	
Terphenyl-d14 (Surr.)	92.	%	1.3		EPA 8270	09/04/95	JC	

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09/19/95

LJO/jcbajc/gbp(dw)/kwh/sra
LH24S1

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

S9SD006RE

Lab Name: PACE - NE Contract:

Lab Code: MAINE Case No: SAS No.: SDG No.: S9SD001

Matrix: (soil/water) SOIL Lab Sample ID: WL1267-5RE

Sample wt/vol: 30 (g/mL) g Lab File ID: Z8328

Level: (low/med) LOW Date Received: 8/17/95

% Moisture: not dec. 25 Date Extracted: 8/24/95

Concentrated Extract Volume 1000 (ul) Date Analyzed: 9/4/95

Injection Volume 1.0 (ul) Dilution Factor: 1.0

GPC Cleanup: Y (Y/N)

pH: N/A Concentration Units (ug/L or ug/Kg) ug/kg

Number TICs found: 15

	CAS Number	Compound Name	RT	Est. Conc.	Q
1.	123422	4-hydroxy-4-methyl-2-Pentanone	4.18	36000	JNAB
2.		Unknown	5.64	1300	JB
3.		Methyl-9H-Fluorene Isomer	17.70	210	J
4.	132650	Dibenzothiophene	18.36	290	JN
5.		C15H12 Isomer	19.92	310	J
6.		C15H12 Isomer PAH	19.99	350	J
7.	203645	4H-Cyclopenta[def]phenanthrene	20.15	650	JN
8.		C15H12 Isomer PAH	20.25	240	J
9.	84651	9,10-Anthracenedione	20.74	460	JN
10.		C17H12 Isomer, PAH	23.27	240	J
11.	203123	Benzo[ghi]fluoranthene	24.72	330	JN
12.		PAH, MW=228	25.50	230	J
13.	205823	Benzo[j]fluoranthene	28.37	950	JN
14.	53584604	28-Nor-17.alpha.(H)-hopane	29.81	710	JN
15.		Unknown	30.40	430	J
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1267-2
Report Date: 09/19/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SD003	Solid	K. RUSCZYK	08/16/95	08/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Volatile Organics by EPA 8260								1,2,3
Reanalysis								
Chloromethane	<9.	µg/kgdrywt	1.7	5.0	EPA 8260	08/28/95	DW	
Bromomethane	<9.	µg/kgdrywt	1.7	5.0	EPA 8260	08/28/95	DW	
Vinyl chloride	<3.	µg/kgdrywt	1.7	2.0	EPA 8260	08/28/95	DW	
Chloroethane	<3.	µg/kgdrywt	1.7	2.0	EPA 8260	08/28/95	DW	
Methylene chloride	B18	µg/kgdrywt	1.7	3.0	EPA 8260	08/28/95	DW	
Acetone	B240	µg/kgdrywt	1.7	5.0	EPA 8260	08/28/95	DW	
Carbon disulfide	<9.	µg/kgdrywt	1.7	5.0	EPA 8260	08/28/95	DW	
1,1-Dichloroethene	<2.	µg/kgdrywt	1.7	1.0	EPA 8260	08/28/95	DW	
1,1-Dichloroethane	<3.	µg/kgdrywt	1.7	2.0	EPA 8260	08/28/95	DW	
Total 1,2-Dichloroethene	<3.	µg/kgdrywt	1.7	2.0	EPA 8260	08/28/95	DW	
Chloroform	<9.	µg/kgdrywt	1.7	5.0	EPA 8260	08/28/95	DW	
1,2-Dichloroethane	<3.	µg/kgdrywt	1.7	2.0	EPA 8260	08/28/95	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.

09/19/95

LJO/jcbeaw/gbp(dw)/kwh
LH28VLS1

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

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EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SD003	Solid	K. RUSCZYK	08/16/95	08/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
2-Butanone	84.	µg/kgdrywt	1.7	5.0	EPA 8260	08/28/95	DW	
1,1,1-Trichloroethane	<3.	µg/kgdrywt	1.7	2.0	EPA 8260	08/28/95	DW	
Carbon tetrachloride	<9.	µg/kgdrywt	1.7	5.0	EPA 8260	08/28/95	DW	
Bromodichloromethane	<9.	µg/kgdrywt	1.7	5.0	EPA 8260	08/28/95	DW	
1,2-Dichloropropane	<4.	µg/kgdrywt	1.7	2.5	EPA 8260	08/28/95	DW	
cis-1,3-Dichloropropene	<9.	µg/kgdrywt	1.7	5.0	EPA 8260	08/28/95	DW	
Trichloroethene	<4.	µg/kgdrywt	1.7	2.5	EPA 8260	08/28/95	DW	
Dibromochloromethane	<9.	µg/kgdrywt	1.7	5.0	EPA 8260	08/28/95	DW	
1,1,2-Trichloroethane	<9.	µg/kgdrywt	1.7	5.0	EPA 8260	08/28/95	DW	
Benzene	<3.	µg/kgdrywt	1.7	2.0	EPA 8260	08/28/95	DW	
trans-1,3-Dichloropropene	<9.	µg/kgdrywt	1.7	5.0	EPA 8260	08/28/95	DW	
Bromoform	<9.	µg/kgdrywt	1.7	5.0	EPA 8260	08/28/95	DW	
4-Methyl-2-pentanone	<5.	µg/kgdrywt	1.7	3.0	EPA 8260	08/28/95	DW	
2-Hexanone	<7.	µg/kgdrywt	1.7	4.0	EPA 8260	08/28/95	DW	

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09/19/95

LJO/jcbeaw/gbp(dw)/kwh
LH28VLS1

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

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EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SD003	Solid	K. RUSCZYK	08/16/95	08/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Tetrachloroethene	<3.	µg/kgdrywt	1.7	2.0	EPA 8260	08/28/95	DW	
1,1,2,2-Tetrachloroethane	<9.	µg/kgdrywt	1.7	5.0	EPA 8260	08/28/95	DW	
Toluene	J1	µg/kgdrywt	1.7	2.0	EPA 8260	08/28/95	DW	
Chlorobenzene	<9.	µg/kgdrywt	1.7	5.0	EPA 8260	08/28/95	DW	
Ethylbenzene	<3.	µg/kgdrywt	1.7	2.0	EPA 8260	08/28/95	DW	
Styrene	<3.	µg/kgdrywt	1.7	2.0	EPA 8260	08/28/95	DW	
Total Xylenes	<3.	µg/kgdrywt	1.7	2.0	EPA 8260	08/28/95	DW	
Dibromofluoromethane (Surr.)	74$	%	1.7		EPA 8260	08/28/95	DW	
Toluene-d8 (Surr.)	93.	%	1.7		EPA 8260	08/28/95	DW	
p-Bromofluorobenzene (Surr.)	93.	%	1.7		EPA 8260	08/28/95	DW	
1,2-Dichlorobenzene	<3.	µg/kgdrywt	1.7	2.0	EPA 8260	08/28/95	DW	
1,3-Dichlorobenzene	<3.	µg/kgdrywt	1.7	2.0	EPA 8260	08/28/95	DW	
1,4-Dichlorobenzene	<3.	µg/kgdrywt	1.7	2.0	EPA 8260	08/28/95	DW	

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09/19/95

LJO/jcbeaw/gbp(dw)/kwh
LH28VLS1

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
S9SD003RE

Lab Name: PACE, ME Contract:

Project No.: Site: Location: Group:

Matrix: (soil/water) SOIL Lab Sample ID: WL1267-2RE

Sample wt/vol: 5.0 (g/mL) g Lab File ID: F2784.D

Level: (low/med) LOW Date Received: 8/17/95

% Moisture: not dec. 41 Date Analyzed: 8/28/95

GC Column: RTX-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs found: 20 Concentration Units: (ug/L or ug/Kg) ug/kg

CAS Number	Compound Name	RT	Est. Conc.	Q
1. 2809-64-5	Naphthalene, 1,2,3,4-tetrahydro-5-m	19.96	290	JN
2.	Unknown	20.54	240	J
3.	Alkane	20.70	210	J
4.	Alkane	21.06	190	J
5.	Alkane	22.04	370	J
6.	Alkane	22.68	2700	J
7.	Unknown	23.03	720	J
8.	C13H18 Isomer	23.61	240	J
9.	C11H10 Isomer	24.08	1300	J
10.	Unknown	24.74	560	J
11.	Unknown	25.13	350	J
12.	Unknown	25.27	800	J
13.	Alkane	25.82	300	J
14.	C10H14 Isomer	26.04	300	J
15.	C11H16 Isomer	27.20	260	J
16.	C10H14 Isomer	27.31	790	J
17.	Unknown	27.68	330	J
18.	Alkane	27.87	1400	J
19.	Unknown	28.16	410	J
20.	C12H12 Isomer	28.94	640	J
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1267-2
Report Date: 09/19/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SD003	Solid	K. RUSCZYK	08/16/95	08/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
TCL Semivolatile Organics by USEPA 8270								1
Phenol	<560.	µg/kgdrywt	1.7	330	EPA 8270	08/31/95	JC	
bis(2-Chloroethyl)ether	<560.	µg/kgdrywt	1.7	330	EPA 8270	08/31/95	JC	
2-Chlorophenol	<560.	µg/kgdrywt	1.7	330	EPA 8270	08/31/95	JC	
1,3-Dichlorobenzene	<560.	µg/kgdrywt	1.7	330	EPA 8270	08/31/95	JC	
1,4-Dichlorobenzene	<560.	µg/kgdrywt	1.7	330	EPA 8270	08/31/95	JC	
1,2-Dichlorobenzene	<560.	µg/kgdrywt	1.7	330	EPA 8270	08/31/95	JC	
2-Methylphenol	<560.	µg/kgdrywt	1.7	330	EPA 8270	08/31/95	JC	
bis(2-Chloroisopropyl) ether	<560.	µg/kgdrywt	1.7	330	EPA 8270	08/31/95	JC	
4-Methylphenol	<560.	µg/kgdrywt	1.7	330	EPA 8270	08/31/95	JC	
n-Nitroso-dipropylamine	<560.	µg/kgdrywt	1.7	330	EPA 8270	08/31/95	JC	
Hexachloroethane	<560.	µg/kgdrywt	1.7	330	EPA 8270	08/31/95	JC	
Nitrobenzene	<560.	µg/kgdrywt	1.7	330	EPA 8270	08/31/95	JC	
Isophorone	<560.	µg/kgdrywt	1.7	330	EPA 8270	08/31/95	JC	
2-Nitrophenol	<560.	µg/kgdrywt	1.7	330	EPA 8270	08/31/95	JC	

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(1) Sample Preparation on 08/24/95 by MAM using EPA 3550

09/19/95

LJO/jcbgbp(dw)/jfg/kwh/sra
LH24S1

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

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CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SD003	Solid	K. RUSCZYK	08/16/95	08/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
2,4-Dimethylphenol	<560.	µg/kgdrywt	1.7	330	EPA 8270	08/31/95	JC	
bis(2-Chloroethoxy)methane	<560.	µg/kgdrywt	1.7	330	EPA 8270	08/31/95	JC	
2,4-Dichlorophenol	<560.	µg/kgdrywt	1.7	330	EPA 8270	08/31/95	JC	
1,2,4-Trichlorobenzene	<560.	µg/kgdrywt	1.7	330	EPA 8270	08/31/95	JC	
Naphthalene	<560.	µg/kgdrywt	1.7	330	EPA 8270	08/31/95	JC	
4-Chloroaniline	<560.	µg/kgdrywt	1.7	330	EPA 8270	08/31/95	JC	
Hexachlorobutadiene	<560.	µg/kgdrywt	1.7	330	EPA 8270	08/31/95	JC	
4-Chloro-3-methylphenol	<560.	µg/kgdrywt	1.7	330	EPA 8270	08/31/95	JC	
2-Methylnaphthalene	<560.	µg/kgdrywt	1.7	330	EPA 8270	08/31/95	JC	
Hexachlorocyclopentadiene	<560.	µg/kgdrywt	1.7	330	EPA 8270	08/31/95	JC	
2,4,6-Trichlorophenol	<560.	µg/kgdrywt	1.7	330	EPA 8270	08/31/95	JC	
2,4,5-Trichlorophenol	<1400.	µg/kgdrywt	1.7	820	EPA 8270	08/31/95	JC	
2-Chloronaphthalene	<560.	µg/kgdrywt	1.7	330	EPA 8270	08/31/95	JC	
2-Nitroaniline	<1400.	µg/kgdrywt	1.7	820	EPA 8270	08/31/95	JC	
Dimethylphthalate	<560.	µg/kgdrywt	1.7	330	EPA 8270	08/31/95	JC	
Acenaphthylene	<560.	µg/kgdrywt	1.7	330	EPA 8270	08/31/95	JC	

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09/19/95

LJO/jcbgbp(dw)/jfg/kwh/sra
LH24S1

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1267-2
Report Date: 09/19/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SD003	Solid	K. RUSCZYK	08/16/95	08/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
2,6-Dinitrotoluene	<560.	µg/kgdrywt	1.7	330	EPA 8270	08/31/95	JC	
3-Nitroaniline	<1400.	µg/kgdrywt	1.7	820	EPA 8270	08/31/95	JC	
Acenaphthene	<560.	µg/kgdrywt	1.7	330	EPA 8270	08/31/95	JC	
2,4-Dinitrophenol	<1400.	µg/kgdrywt	1.7	820	EPA 8270	08/31/95	JC	
4-Nitrophenol	<1400.	µg/kgdrywt	1.7	820	EPA 8270	08/31/95	JC	
Dibenzofuran	<560.	µg/kgdrywt	1.7	330	EPA 8270	08/31/95	JC	
2,4-Dinitrotoluene	<560.	µg/kgdrywt	1.7	330	EPA 8270	08/31/95	JC	
Diethylphthalate	<560.	µg/kgdrywt	1.7	330	EPA 8270	08/31/95	JC	
4-Chlorophenyl phenyl ether	<560.	µg/kgdrywt	1.7	330	EPA 8270	08/31/95	JC	
Fluorene	<560.	µg/kgdrywt	1.7	330	EPA 8270	08/31/95	JC	
4-Nitroaniline	<1400.	µg/kgdrywt	1.7	820	EPA 8270	08/31/95	JC	
4,6-Dinitro-2-methylphenol	<1400.	µg/kgdrywt	1.7	820	EPA 8270	08/31/95	JC	
n-Nitrosodiphenylamine	<560.	µg/kgdrywt	1.7	330	EPA 8270	08/31/95	JC	
4-Bromophenyl phenyl ether	<560.	µg/kgdrywt	1.7	330	EPA 8270	08/31/95	JC	
Hexachlorobenzene	<560.	µg/kgdrywt	1.7	330	EPA 8270	08/31/95	JC	
Pentachlorophenol	<1400.	µg/kgdrywt	1.7	820	EPA 8270	08/31/95	JC	

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09/19/95

LJO/jcbgbp(dw)/jfg/kwh/sra
LH24S1

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SD003	Solid	K. RUSCZYK	08/16/95	08/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Phenanthrene	<560.	µg/kgdrywt	1.7	330	EPA 8270	08/31/95	JC	
Anthracene	<560.	µg/kgdrywt	1.7	330	EPA 8270	08/31/95	JC	
Carbazole	<560.	µg/kgdrywt	1.7	330	EPA 8270	08/31/95	JC	
Di-n-butylphthalate	<560.	µg/kgdrywt	1.7	330	EPA 8270	08/31/95	JC	
Fluoranthene	<560.	µg/kgdrywt	1.7	330	EPA 8270	08/31/95	JC	
Pyrene	<560.	µg/kgdrywt	1.7	330	EPA 8270	08/31/95	JC	
Butyl benzylphthalate	<560.	µg/kgdrywt	1.7	330	EPA 8270	08/31/95	JC	
3,3'-Dichlorobenzidine	<560.	µg/kgdrywt	1.7	330	EPA 8270	08/31/95	JC	
Benzo(a)anthracene	<560.	µg/kgdrywt	1.7	330	EPA 8270	08/31/95	JC	
Chrysene	<560.	µg/kgdrywt	1.7	330	EPA 8270	08/31/95	JC	
bis(2-Ethylhexyl)phthalate	<560.	µg/kgdrywt	1.7	330	EPA 8270	08/31/95	JC	
Di-n-octylphthalate	<560.	µg/kgdrywt	1.7	330	EPA 8270	08/31/95	JC	
Benzo(b)fluoranthene	<560.	µg/kgdrywt	1.7	330	EPA 8270	08/31/95	JC	
Benzo(k)fluoranthene	<560.	µg/kgdrywt	1.7	330	EPA 8270	08/31/95	JC	
Benzo(a)pyrene	<560.	µg/kgdrywt	1.7	330	EPA 8270	08/31/95	JC	
Indeno(1,2,3-cd)pyrene	<560.	µg/kgdrywt	1.7	330	EPA 8270	08/31/95	JC	

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09/19/95

LJO/jcbgbp(dw)/jfg/kwh/sra
LH24S1

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

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EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SD003	Solid	K. RUSCZYK	08/16/95	08/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Dibenzo(a,h)anthracene	<560.	µg/kgdrywt	1.7	330	EPA 8270	08/31/95	JC	
Benzo(g,h,i)perylene	<560.	µg/kgdrywt	1.7	330	EPA 8270	08/31/95	JC	
2-Fluorophenol(Surr.)	76.	%	1.7		EPA 8270	08/31/95	JC	
Phenol-d5(Surr.)	83.	%	1.7		EPA 8270	08/31/95	JC	
Nitrobenzene-d5(Surr.)	84.	%	1.7		EPA 8270	08/31/95	JC	
2-Fluorobiphenyl(Surr.)	99.	%	1.7		EPA 8270	08/31/95	JC	
2,4,6-Tribromophenol(Surr.)	81.	%	1.7		EPA 8270	08/31/95	JC	
Terphenyl-d14(Surr.)	99.	%	1.7		EPA 8270	08/31/95	JC	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

09/19/95

LJO/jcbgbp(dw)/jfg/kwh/sra
LH24S1

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

S9SD003

Lab Name: PACE - NE Contract:

Lab Code: MAINE Case No: SAS No.: SDG No.: S9SD001

Matrix: (soil/water) SOIL Lab Sample ID: WL1267-2

Sample wt/vol: 30 (g/mL) g Lab File ID: Z8290

Level: (low/med) LOW Date Received: 8/17/95

% Moisture: not dec. 41 Date Extracted: 8/24/95

Concentrated Extract Volume 1000 (ul) Date Analyzed: 8/31/95

Injection Volume: 1.0 (ul) Dilution Factor: 1.0

GPC Cleanup: Y (Y/N)

pH: N/A Concentration Units (ug/L or ug/Kg) ug/kg

Number TICs found: 15

	CAS Number	Compound Name	RT	Est. Conc.	Q
1.	123422	2-Pentanone, 4-hydroxy-4-methyl-	4.43	45000	JNAB
2.		Unknown	5.87	1600	JB
3.		Unknown	21.11	300	J
4.		Alkane	24.02	600	J
5.		Alkane	27.35	1200	J
6.	77899106	(Z) 14-Tricosenyl formate	28.40	390	JN
7.	77899106	(Z) 14-Tricosenyl formate	29.86	350	JN
8.		Alkane	30.25	480	J
9.		Unknown	30.33	610	J
10.		Unknown	31.41	290	J
11.	514078	D-Friedoolean-14-en-3-one	31.81	760	JN
12.		Unknown, MW=205	32.33	440	J
13.		Unknown	32.60	640	J
14.		Unknown	32.88	330	J
15.		Unknown	33.80	450	J
16.					
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pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1267-1
Report Date: 09/19/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SD002	Solid	K. RUSCZYK	08/16/95	08/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Volatile Organics by EPA 8260								1,2
Chloromethane	<7.	µg/kgdrywt	1.3	5.0	EPA 8260	08/28/95	DW	
Bromomethane	<7.	µg/kgdrywt	1.3	5.0	EPA 8260	08/28/95	DW	
Vinyl chloride	<3.	µg/kgdrywt	1.3	2.0	EPA 8260	08/28/95	DW	
Chloroethane	<3.	µg/kgdrywt	1.3	2.0	EPA 8260	08/28/95	DW	
Methylene chloride	B16	µg/kgdrywt	1.3	3.0	EPA 8260	08/28/95	DW	
Acetone	JB3	µg/kgdrywt	1.3	5.0	EPA 8260	08/28/95	DW	
Carbon disulfide	<7.	µg/kgdrywt	1.3	5.0	EPA 8260	08/28/95	DW	
1,1-Dichloroethene	<1.	µg/kgdrywt	1.3	1.0	EPA 8260	08/28/95	DW	
1,1-Dichloroethane	<3.	µg/kgdrywt	1.3	2.0	EPA 8260	08/28/95	DW	
Total 1,2-Dichloroethene	<3.	µg/kgdrywt	1.3	2.0	EPA 8260	08/28/95	DW	
Chloroform	<7.	µg/kgdrywt	1.3	5.0	EPA 8260	08/28/95	DW	
1,2-Dichloroethane	<3.	µg/kgdrywt	1.3	2.0	EPA 8260	08/28/95	DW	
2-Butanone	<7.	µg/kgdrywt	1.3	5.0	EPA 8260	08/28/95	DW	
1,1,1-Trichloroethane	<3.	µg/kgdrywt	1.3	2.0	EPA 8260	08/28/95	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.

09/19/95

LJO/jcbeaw/gbp(dw)/kwh
LH28VLS1

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1267-1
Report Date: 09/19/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SD002	Solid	K. RUSCZYK	08/16/95	08/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Carbon tetrachloride	<7.	µg/kgdrywt	1.3	5.0	EPA 8260	08/28/95	DW	
Bromodichloromethane	<7.	µg/kgdrywt	1.3	5.0	EPA 8260	08/28/95	DW	
1,2-Dichloropropane	<3.	µg/kgdrywt	1.3	2.5	EPA 8260	08/28/95	DW	
cis-1,3-Dichloropropene	<7.	µg/kgdrywt	1.3	5.0	EPA 8260	08/28/95	DW	
Trichloroethene	<3.	µg/kgdrywt	1.3	2.5	EPA 8260	08/28/95	DW	
Dibromochloromethane	<7.	µg/kgdrywt	1.3	5.0	EPA 8260	08/28/95	DW	
1,1,2-Trichloroethane	<7.	µg/kgdrywt	1.3	5.0	EPA 8260	08/28/95	DW	
Benzene	<3.	µg/kgdrywt	1.3	2.0	EPA 8260	08/28/95	DW	
trans-1,3-Dichloropropene	<7.	µg/kgdrywt	1.3	5.0	EPA 8260	08/28/95	DW	
Bromoform	<7.	µg/kgdrywt	1.3	5.0	EPA 8260	08/28/95	DW	
4-Methyl-2-pentanone	<4.	µg/kgdrywt	1.3	3.0	EPA 8260	08/28/95	DW	
2-Hexanone	<5.	µg/kgdrywt	1.3	4.0	EPA 8260	08/28/95	DW	
Tetrachloroethene	JB1	µg/kgdrywt	1.3	2.0	EPA 8260	08/28/95	DW	
1,1,2,2-Tetrachloroethane	JB1	µg/kgdrywt	1.3	5.0	EPA 8260	08/28/95	DW	
Toluene	<3.	µg/kgdrywt	1.3	2.0	EPA 8260	08/28/95	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.

09/19/95

LJO/jcbeaw/gbp(dw)/kwh
LH28VLS1

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1267-1
Report Date: 09/19/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SD002	Solid	K. RUSCZYK	08/16/95	08/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chlorobenzene	<7.	µg/kgdrywt	1.3	5.0	EPA 8260	08/28/95	DW	
Ethylbenzene	<3.	µg/kgdrywt	1.3	2.0	EPA 8260	08/28/95	DW	
Styrene	<3.	µg/kgdrywt	1.3	2.0	EPA 8260	08/28/95	DW	
Total Xylenes	<3.	µg/kgdrywt	1.3	2.0	EPA 8260	08/28/95	DW	
Dibromofluoromethane (Surr.)	110.	%	1.3		EPA 8260	08/28/95	DW	
Toluene-d8 (Surr.)	93.	%	1.3		EPA 8260	08/28/95	DW	
p-Bromofluorobenzene (Surr.)	84.	%	1.3		EPA 8260	08/28/95	DW	
1,2-Dichlorobenzene	<3.	µg/kgdrywt	1.3	2.0	EPA 8260	08/28/95	DW	
1,3-Dichlorobenzene	<3.	µg/kgdrywt	1.3	2.0	EPA 8260	08/28/95	DW	
1,4-Dichlorobenzene	<3.	µg/kgdrywt	1.3	2.0	EPA 8260	08/28/95	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.

09/19/95

LJO/jcbeaw/gbp(dw)/kah
LH28VLS1

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
S9SD002

Lab Name: PACE, ME Contract:

Project No.: Site: Location: Group:

Matrix: (soil/water) SOIL Lab Sample ID: WL1267-1

Sample wt/vol: 5.0 (g/mL) g Lab File ID: F2774.D

Level: (low/med) LOW Date Received: 8/17/95

% Moisture: not dec. 21 Date Analyzed: 8/28/95

GC Column: RTX-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Concentration Units:
(ug/L or ug/Kg) ug/kg

Number TICs found: 0

CAS Number	Compound Name	RT	Est. Conc.	Q
1.				
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pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1267-1
Report Date: 09/19/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SD002	Solid	K. RUSCZYK	08/16/95	08/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
TCL Semivolatile Organics by USEPA 8270								1,2
Phenol	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/01/95	JC	
bis(2-Chloroethyl)ether	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/01/95	JC	
2-Chlorophenol	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/01/95	JC	
1,3-Dichlorobenzene	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/01/95	JC	
1,4-Dichlorobenzene	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/01/95	JC	
1,2-Dichlorobenzene	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/01/95	JC	
2-Methylphenol	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/01/95	JC	
bis(2-Chloroisopropyl) ether	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/01/95	JC	
4-Methylphenol	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/01/95	JC	
n-Nitroso-dipropylamine	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/01/95	JC	
Hexachloroethane	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/01/95	JC	
Nitrobenzene	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/01/95	JC	
Isophorone	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/01/95	JC	

* PQL (Practical 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 08/24/95 by MAM using EPA 3550
(2) "J" flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.

09/19/95

LJO/jcbajc/gbp(dw)/kwh/sra
LH24S1

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1267-1
Report Date: 09/19/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SD002	Solid	K. RUSCZYK	08/16/95	08/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
2-Nitrophenol	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/01/95	JC	
2,4-Dimethylphenol	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/01/95	JC	
bis(2-Chloroethoxy)methane	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/01/95	JC	
2,4-Dichlorophenol	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/01/95	JC	
1,2,4-Trichlorobenzene	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/01/95	JC	
Naphthalene	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/01/95	JC	
4-Chloroaniline	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/01/95	JC	
Hexachlorobutadiene	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/01/95	JC	
4-Chloro-3-methylphenol	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/01/95	JC	
2-Methylnaphthalene	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/01/95	JC	
Hexachlorocyclopentadiene	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/01/95	JC	
2,4,6-Trichlorophenol	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/01/95	JC	
2,4,5-Trichlorophenol	<1100.	µg/kgdrywt	1.3	820	EPA 8270	09/01/95	JC	
2-Chloronaphthalene	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/01/95	JC	
2-Nitroaniline	<1100.	µg/kgdrywt	1.3	820	EPA 8270	09/01/95	JC	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

09/19/95

LJO/jcbajc/gbp(dw)/kwh/sra
LH24S1

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1267-1
Report Date: 09/19/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SD002	Solid	K. RUSCZYK	08/16/95	08/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Dimethylphthalate	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/01/95	JC	
Acenaphthylene	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/01/95	JC	
2,6-Dinitrotoluene	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/01/95	JC	
3-Nitroaniline	<1100.	µg/kgdrywt	1.3	820	EPA 8270	09/01/95	JC	
Acenaphthene	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/01/95	JC	
2,4-Dinitrophenol	<1100.	µg/kgdrywt	1.3	820	EPA 8270	09/01/95	JC	
4-Nitrophenol	<1100.	µg/kgdrywt	1.3	820	EPA 8270	09/01/95	JC	
Dibenzofuran	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/01/95	JC	
2,4-Dinitrotoluene	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/01/95	JC	
Diethylphthalate	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/01/95	JC	
4-Chlorophenyl phenyl ether	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/01/95	JC	
Fluorene	J48	µg/kgdrywt	1.3	330	EPA 8270	09/01/95	JC	
4-Nitroaniline	<1100.	µg/kgdrywt	1.3	820	EPA 8270	09/01/95	JC	
4,6-Dinitro-2-methylphenol	<1100.	µg/kgdrywt	1.3	820	EPA 8270	09/01/95	JC	
n-Nitrosodiphenylamine	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/01/95	JC	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

09/19/95

LJO/jcbajc/gbp(dw)/kwh/sra
LH24S1

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1267-1
Report Date: 09/19/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SD002	Solid	K. RUSCZYK	08/16/95	08/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
4-Bromophenyl phenyl ether	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/01/95	JC	
Hexachlorobenzene	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/01/95	JC	
Pentachlorophenol	<1100.	µg/kgdrywt	1.3	820	EPA 8270	09/01/95	JC	
Phenanthrene	600.	µg/kgdrywt	1.3	330	EPA 8270	09/01/95	JC	
Anthracene	J91	µg/kgdrywt	1.3	330	EPA 8270	09/01/95	JC	
Carbazole	J59	µg/kgdrywt	1.3	330	EPA 8270	09/01/95	JC	
Di-n-butylphthalate	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/01/95	JC	
Fluoranthene	2500.	µg/kgdrywt	1.3	330	EPA 8270	09/01/95	JC	
Pyrene	1900.	µg/kgdrywt	1.3	330	EPA 8270	09/01/95	JC	
Butyl benzylphthalate	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/01/95	JC	
3,3'-Dichlorobenzidine	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/01/95	JC	
Benzo(a)anthracene	960.	µg/kgdrywt	1.3	330	EPA 8270	09/01/95	JC	
Chrysene	1300.	µg/kgdrywt	1.3	330	EPA 8270	09/01/95	JC	
bis(2-Ethylhexyl)phthalate	1100.	µg/kgdrywt	1.3	330	EPA 8270	09/01/95	JC	
Di-n-octylphthalate	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/01/95	JC	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

09/19/95

LJO/jcbajc/gbp(dw)/kwh/sra
LH24S1

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1267-1
Report Date: 09/19/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SD002	Solid	K. RUSCZYK	08/16/95	08/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Benzo(b)fluoranthene	1200.	µg/kgdrywt	1.3	330	EPA 8270	09/01/95	JC	
Benzo(k)fluoranthene	J350.	µg/kgdrywt	1.3	330	EPA 8270	09/01/95	JC	
Benzo(a)pyrene	680.	µg/kgdrywt	1.3	330	EPA 8270	09/01/95	JC	
Indeno(1,2,3-cd)pyrene	J400	µg/kgdrywt	1.3	330	EPA 8270	09/01/95	JC	
Dibenzo(a,h)anthracene	J98	µg/kgdrywt	1.3	330	EPA 8270	09/01/95	JC	
Benzo(g,h,i)perylene	J390	µg/kgdrywt	1.3	330	EPA 8270	09/01/95	JC	
2-Fluorophenol(Surr.)	76.	%	1.3		EPA 8270	09/01/95	JC	
Phenol-d5(Surr.)	82.	%	1.3		EPA 8270	09/01/95	JC	
Nitrobenzene-d5(Surr.)	80.	%	1.3		EPA 8270	09/01/95	JC	
2-Fluorobiphenyl(Surr.)	99.	%	1.3		EPA 8270	09/01/95	JC	
2,4,6-Tribromophenol(Surr.)	81.	%	1.3		EPA 8270	09/01/95	JC	
Terphenyl-d14(Surr.)	100.	%	1.3		EPA 8270	09/01/95	JC	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

09/19/95

LJO/jcbajc/gbp(dw)/kwh/sra
IH24S1

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
S9SD002

Lab Name: PACE - NE Contract:

Lab Code: MAINE Case No: SAS No.: SDG No.: S9SD001

Matrix: (soil/water) SOIL Lab Sample ID: WL1267-1

Sample wt/vol: 30 (g/mL) g Lab File ID: Z8303

Level: (low/med) LOW Date Received: 8/17/95

% Moisture: not dec. 21 Date Extracted: 8/24/95

Concentrated Extract Volume 1000 (ul) Date Analyzed: 9/1/95

Injection Volume 1.0 (ul) Dilution Factor: 1.0

GPC Cleanup: Y (Y/N)

pH: N/A Concentration Units (ug/L or ug/Kg) ug/kg

Number TICs found: 15

	CAS Number	Compound Name	RT	Est. Conc.	Q
1.	123422	2-Pentanone, 4-hydroxy-4-methyl-	4.33	32000	JNAB
2.		Unknown	5.79	1200	JB
3.		C17H12 Isomer	23.29	250	J
4.		C17H12 Isomer	23.45	220	J
5.	195197	Benzo[c]phenanthrene	25.69	240	JN
6.		Unknown	26.76	300	J
7.		Unknown	26.82	200	J
8.		Alkane	26.97	250	J
9.		Alkane	27.28	550	J
10.		Alkane	27.69	780	J
11.	205823	Benzo[j]fluoranthene	28.55	490	JN
12.		Alkane	30.17	220	J
13.	514078	D-Friedoolean-14-en-3-one	31.70	480	JN
14.		Unknown	32.21	3800	J
15.	2755104	Pregn-4-ene-3,20-dione, (9.beta.,10.alpha)-	32.74	360	JN
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pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1267-4
Report Date: 09/19/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SD005	Solid	K. RUSCZYK	08/16/95	08/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Volatile Organics by EPA 8260								1,2
Chloromethane	<7.	µg/kgdrywt	1.3	5.0	EPA 8260	08/28/95	DW	
Bromomethane	<7.	µg/kgdrywt	1.3	5.0	EPA 8260	08/28/95	DW	
Vinyl chloride	<3.	µg/kgdrywt	1.3	2.0	EPA 8260	08/28/95	DW	
Chloroethane	<3.	µg/kgdrywt	1.3	2.0	EPA 8260	08/28/95	DW	
Methylene chloride	B7	µg/kgdrywt	1.3	3.0	EPA 8260	08/28/95	DW	
Acetone	JB2	µg/kgdrywt	1.3	5.0	EPA 8260	08/28/95	DW	
Carbon disulfide	<7.	µg/kgdrywt	1.3	5.0	EPA 8260	08/28/95	DW	
1,1-Dichloroethene	<1.	µg/kgdrywt	1.3	1.0	EPA 8260	08/28/95	DW	
1,1-Dichloroethane	<3.	µg/kgdrywt	1.3	2.0	EPA 8260	08/28/95	DW	
Total 1,2-Dichloroethene	<3.	µg/kgdrywt	1.3	2.0	EPA 8260	08/28/95	DW	
Chloroform	<7.	µg/kgdrywt	1.3	5.0	EPA 8260	08/28/95	DW	
1,2-Dichloroethane	<3.	µg/kgdrywt	1.3	2.0	EPA 8260	08/28/95	DW	
2-Butanone	<7.	µg/kgdrywt	1.3	5.0	EPA 8260	08/28/95	DW	
1,1,1-Trichloroethane	<3.	µg/kgdrywt	1.3	2.0	EPA 8260	08/28/95	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.

09/19/95

LJO/jcbeaw/gbp (dw) /lmh
LH28VLS1

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1267-4
Report Date: 09/19/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SD005	Solid	K. RUSCZYK	08/16/95	08/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Carbon tetrachloride	<7.	µg/kgdrywt	1.3	5.0	EPA 8260	08/28/95	DW	
Bromodichloromethane	<7.	µg/kgdrywt	1.3	5.0	EPA 8260	08/28/95	DW	
1,2-Dichloropropane	<3.	µg/kgdrywt	1.3	2.5	EPA 8260	08/28/95	DW	
cis-1,3-Dichloropropene	<7.	µg/kgdrywt	1.3	5.0	EPA 8260	08/28/95	DW	
Trichloroethene	<3.	µg/kgdrywt	1.3	2.5	EPA 8260	08/28/95	DW	
Dibromochloromethane	<7.	µg/kgdrywt	1.3	5.0	EPA 8260	08/28/95	DW	
1,1,2-Trichloroethane	<7.	µg/kgdrywt	1.3	5.0	EPA 8260	08/28/95	DW	
Benzene	<3.	µg/kgdrywt	1.3	2.0	EPA 8260	08/28/95	DW	
trans-1,3-Dichloropropene	<7.	µg/kgdrywt	1.3	5.0	EPA 8260	08/28/95	DW	
Bromoform	<7.	µg/kgdrywt	1.3	5.0	EPA 8260	08/28/95	DW	
4-Methyl-2-pentanone	<4.	µg/kgdrywt	1.3	3.0	EPA 8260	08/28/95	DW	
2-Hexanone	<5.	µg/kgdrywt	1.3	4.0	EPA 8260	08/28/95	DW	
Tetrachloroethene	JB1	µg/kgdrywt	1.3	2.0	EPA 8260	08/28/95	DW	
1,1,2,2-Tetrachloroethane	<7.	µg/kgdrywt	1.3	5.0	EPA 8260	08/28/95	DW	
Toluene	<3.	µg/kgdrywt	1.3	2.0	EPA 8260	08/28/95	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.

09/19/95

LJO/jcbeaw/gbp (dw) /kwh
LH28VLS1

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1267-4
Report Date: 09/19/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SD005	Solid	K. RUSCZYK	08/16/95	08/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chlorobenzene	<7.	µg/kgdrywt	1.3	5.0	EPA 8260	08/28/95	DW	
Ethylbenzene	<3.	µg/kgdrywt	1.3	2.0	EPA 8260	08/28/95	DW	
Styrene	<3.	µg/kgdrywt	1.3	2.0	EPA 8260	08/28/95	DW	
Total Xylenes	<3.	µg/kgdrywt	1.3	2.0	EPA 8260	08/28/95	DW	
Dibromofluoromethane (Surr.)	87.	%	1.3		EPA 8260	08/28/95	DW	
Toluene-d8 (Surr.)	88.	%	1.3		EPA 8260	08/28/95	DW	
p-Bromofluorobenzene (Surr.)	90.	%	1.3		EPA 8260	08/28/95	DW	
1,2-Dichlorobenzene	<3.	µg/kgdrywt	1.3	2.0	EPA 8260	08/28/95	DW	
1,3-Dichlorobenzene	<3.	µg/kgdrywt	1.3	2.0	EPA 8260	08/28/95	DW	
1,4-Dichlorobenzene	<3.	µg/kgdrywt	1.3	2.0	EPA 8260	08/28/95	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.

09/19/95

LJO/jcbeaw/gbp(dw)/kwh
LH28VLS1

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1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
S9SD005

Lab Name: PACE, ME Contract: _____

Project No.: _____ Site: _____ Location: _____ Group: _____

Matrix: (soil/water) SOIL Lab Sample ID: WL1267-4

Sample wt/vol: 5.0 (g/mL) g Lab File ID: F2779.D

Level: (low/med) LOW Date Received: 8/17/95

% Moisture: not dec. 20 Date Analyzed: 8/28/95

GC Column: RTX-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Concentration Units:
(ug/L or ug/Kg) ug/kg

Number TICs found: 0

CAS Number	Compound Name	RT	Est. Conc.	Q
1.				
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pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1267-4
Report Date: 09/19/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SD005	Solid	K. RUSCZYK	08/16/95	08/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
TCL Semivolatile Organics by USEPA 8270								1,2
Phenol	<430.	µg/kgdrywt	1.3	330	EPA 8270	08/31/95	JC	
bis(2-Chloroethyl)ether	<430.	µg/kgdrywt	1.3	330	EPA 8270	08/31/95	JC	
2-Chlorophenol	<430.	µg/kgdrywt	1.3	330	EPA 8270	08/31/95	JC	
1,3-Dichlorobenzene	<430.	µg/kgdrywt	1.3	330	EPA 8270	08/31/95	JC	
1,4-Dichlorobenzene	<430.	µg/kgdrywt	1.3	330	EPA 8270	08/31/95	JC	
1,2-Dichlorobenzene	<430.	µg/kgdrywt	1.3	330	EPA 8270	08/31/95	JC	
2-Methylphenol	<430.	µg/kgdrywt	1.3	330	EPA 8270	08/31/95	JC	
bis(2-Chloroisopropyl) ether	<430.	µg/kgdrywt	1.3	330	EPA 8270	08/31/95	JC	
4-Methylphenol	<430.	µg/kgdrywt	1.3	330	EPA 8270	08/31/95	JC	
n-Nitroso-dipropylamine	<430.	µg/kgdrywt	1.3	330	EPA 8270	08/31/95	JC	
Hexachloroethane	<430.	µg/kgdrywt	1.3	330	EPA 8270	08/31/95	JC	
Nitrobenzene	<430.	µg/kgdrywt	1.3	330	EPA 8270	08/31/95	JC	
Isophorone	<430.	µg/kgdrywt	1.3	330	EPA 8270	08/31/95	JC	

* PQL (Practical 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 08/24/95 by MAM using EPA 3550
(2) "J" flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.

09/19/95

LJO/jcbgbp(dw)/jfg/kwh/sra
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1267-4
Report Date: 09/19/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SD005	Solid	K. RUSCZYK	08/16/95	08/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
2-Nitrophenol	<430.	µg/kgdrywt	1.3	330	EPA 8270	08/31/95	JC	
2,4-Dimethylphenol	<430.	µg/kgdrywt	1.3	330	EPA 8270	08/31/95	JC	
bis(2-Chloroethoxy)methane	<430.	µg/kgdrywt	1.3	330	EPA 8270	08/31/95	JC	
2,4-Dichlorophenol	<430.	µg/kgdrywt	1.3	330	EPA 8270	08/31/95	JC	
1,2,4-Trichlorobenzene	<430.	µg/kgdrywt	1.3	330	EPA 8270	08/31/95	JC	
Naphthalene	<430.	µg/kgdrywt	1.3	330	EPA 8270	08/31/95	JC	
4-Chloroaniline	<430.	µg/kgdrywt	1.3	330	EPA 8270	08/31/95	JC	
Hexachlorobutadiene	<430.	µg/kgdrywt	1.3	330	EPA 8270	08/31/95	JC	
4-Chloro-3-methylphenol	<430.	µg/kgdrywt	1.3	330	EPA 8270	08/31/95	JC	
2-Methylnaphthalene	<430.	µg/kgdrywt	1.3	330	EPA 8270	08/31/95	JC	
Hexachlorocyclopentadiene	<430.	µg/kgdrywt	1.3	330	EPA 8270	08/31/95	JC	
2,4,6-Trichlorophenol	<430.	µg/kgdrywt	1.3	330	EPA 8270	08/31/95	JC	
2,4,5-Trichlorophenol	<1100.	µg/kgdrywt	1.3	820	EPA 8270	08/31/95	JC	
2-Chloronaphthalene	<430.	µg/kgdrywt	1.3	330	EPA 8270	08/31/95	JC	
2-Nitroaniline	<1100.	µg/kgdrywt	1.3	820	EPA 8270	08/31/95	JC	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

09/19/95

LJD/jcbgbp(dw)/jfg/kwh/sra
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1267-4
Report Date: 09/19/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SD005	Solid	K. RUSCZYK	08/16/95	08/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Dimethylphthalate	<430.	µg/kgdrywt	1.3	330	EPA 8270	08/31/95	JC	
Acenaphthylene	<430.	µg/kgdrywt	1.3	330	EPA 8270	08/31/95	JC	
2,6-Dinitrotoluene	<430.	µg/kgdrywt	1.3	330	EPA 8270	08/31/95	JC	
3-Nitroaniline	<1100.	µg/kgdrywt	1.3	820	EPA 8270	08/31/95	JC	
Acenaphthene	<430.	µg/kgdrywt	1.3	330	EPA 8270	08/31/95	JC	
2,4-Dinitrophenol	<1100.	µg/kgdrywt	1.3	820	EPA 8270	08/31/95	JC	
4-Nitrophenol	<1100.	µg/kgdrywt	1.3	820	EPA 8270	08/31/95	JC	
Dibenzofuran	<430.	µg/kgdrywt	1.3	330	EPA 8270	08/31/95	JC	
2,4-Dinitrotoluene	<430.	µg/kgdrywt	1.3	330	EPA 8270	08/31/95	JC	
Diethylphthalate	<430.	µg/kgdrywt	1.3	330	EPA 8270	08/31/95	JC	
4-Chlorophenyl phenyl ether	<430.	µg/kgdrywt	1.3	330	EPA 8270	08/31/95	JC	
Fluorene	<430.	µg/kgdrywt	1.3	330	EPA 8270	08/31/95	JC	
4-Nitroaniline	<1100.	µg/kgdrywt	1.3	820	EPA 8270	08/31/95	JC	
4,6-Dinitro-2-methylphenol	<1100.	µg/kgdrywt	1.3	820	EPA 8270	08/31/95	JC	
n-Nitrosodiphenylamine	<430.	µg/kgdrywt	1.3	330	EPA 8270	08/31/95	JC	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

09/19/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1267-4
Report Date: 09/19/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SD005	Solid	K. RUSCZYK	08/16/95	08/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
4-Bromophenyl phenyl ether	<430.	µg/kgdrywt	1.3	330	EPA 8270	08/31/95	JC	
Hexachlorobenzene	<430.	µg/kgdrywt	1.3	330	EPA 8270	08/31/95	JC	
Pentachlorophenol	<1100.	µg/kgdrywt	1.3	820	EPA 8270	08/31/95	JC	
Phenanthrene	J130	µg/kgdrywt	1.3	330	EPA 8270	08/31/95	JC	
Anthracene	<430.	µg/kgdrywt	1.3	330	EPA 8270	08/31/95	JC	
Carbazole	<430.	µg/kgdrywt	1.3	330	EPA 8270	08/31/95	JC	
Di-n-butylphthalate	<430.	µg/kgdrywt	1.3	330	EPA 8270	08/31/95	JC	
Fluoranthene	J210	µg/kgdrywt	1.3	330	EPA 8270	08/31/95	JC	
Pyrene	J200	µg/kgdrywt	1.3	330	EPA 8270	08/31/95	JC	
Butyl benzylphthalate	<430.	µg/kgdrywt	1.3	330	EPA 8270	08/31/95	JC	
3,3'-Dichlorobenzidine	<430.	µg/kgdrywt	1.3	330	EPA 8270	08/31/95	JC	
Benzo(a)anthracene	J100	µg/kgdrywt	1.3	330	EPA 8270	08/31/95	JC	
Chrysene	J140	µg/kgdrywt	1.3	330	EPA 8270	08/31/95	JC	
bis(2-Ethylhexyl)phthalate	J99	µg/kgdrywt	1.3	330	EPA 8270	08/31/95	JC	
Di-n-octylphthalate	<430.	µg/kgdrywt	1.3	330	EPA 8270	08/31/95	JC	

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09/19/95

LJO/jcbgbp(dw)/jfg/kwh/sra
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1267-4
Report Date: 09/19/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SD005	Solid	K. RUSCZYK	08/16/95	08/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Benzo(b)fluoranthene	J170	µg/kgdrywt	1.3	330	EPA 8270	08/31/95	JC	
Benzo(k)fluoranthene	J49	µg/kgdrywt	1.3	330	EPA 8270	08/31/95	JC	
Benzo(a)pyrene	J120	µg/kgdrywt	1.3	330	EPA 8270	08/31/95	JC	
Indeno(1,2,3-cd)pyrene	J100	µg/kgdrywt	1.3	330	EPA 8270	08/31/95	JC	
Dibenzo(a,h)anthracene	J31	µg/kgdrywt	1.3	330	EPA 8270	08/31/95	JC	
Benzo(g,h,i)perylene	J100	µg/kgdrywt	1.3	330	EPA 8270	08/31/95	JC	
2-Fluorophenol(Surr.)	76.	%	1.3		EPA 8270	08/31/95	JC	
Phenol-d5(Surr.)	81.	%	1.3		EPA 8270	08/31/95	JC	
Nitrobenzene-d5(Surr.)	81.	%	1.3		EPA 8270	08/31/95	JC	
2-Fluorobiphenyl(Surr.)	100.	%	1.3		EPA 8270	08/31/95	JC	
2,4,6-Tribromophenol(Surr.)	58.	%	1.3		EPA 8270	08/31/95	JC	
Terphenyl-d14(Surr.)	96.	%	1.3		EPA 8270	08/31/95	JC	

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09/19/95

LJO/jcbgbp(dw)/jfg/kwh/sra
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1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
S9SD005

Lab Name: PACE - NE Contract:

Lab Code: MAINE Case No: SAS No.: SDG No.: S9SD001

Matrix: (soil/water) SOIL Lab Sample ID: WL1267-4

Sample wt/vol: 30 (g/mL) g Lab File ID: Z8292

Level: (low/med) LOW Date Received: 8/17/95

% Moisture: not dec. 20 Date Extracted: 8/24/95

Concentrated Extract Volume 1000 (ul) Date Analyzed: 8/31/95

Injection Volume 1.0 (ul) Dilution Factor: 1.0

GPC Cleanup: Y (Y/N)

pH: N/A Concentration Units (ug/L or ug/Kg) ug/kg

Number TICs found: 4

CAS Number	Compound Name	RT	Est. Conc.	Q
1. 123422	4-hydroxy-4-methyl-2-Pentanone	4.45	30000	JNAB
2.	Unknown	5.87	1000	JB
3.	Alkane	27.37	270	J
4.	Alkane	27.78	470	J
5.				
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pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1267-3
Report Date: 09/19/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SD004	Solid	K. RUSCZYK	08/16/95	08/16/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Volatile Organics by EPA 8260								1,2
Chloromethane	<7.	µg/kgdrywt	1.3	5.0	EPA 8260	08/28/95	DW	
Bromomethane	<7.	µg/kgdrywt	1.3	5.0	EPA 8260	08/28/95	DW	
Vinyl chloride	<3.	µg/kgdrywt	1.3	2.0	EPA 8260	08/28/95	DW	
Chloroethane	<3.	µg/kgdrywt	1.3	2.0	EPA 8260	08/28/95	DW	
Methylene chloride	B8	µg/kgdrywt	1.3	3.0	EPA 8260	08/28/95	DW	
Acetone	JB6	µg/kgdrywt	1.3	5.0	EPA 8260	08/28/95	DW	
Carbon disulfide	<7.	µg/kgdrywt	1.3	5.0	EPA 8260	08/28/95	DW	
1,1-Dichloroethene	<1.	µg/kgdrywt	1.3	1.0	EPA 8260	08/28/95	DW	
1,1-Dichloroethane	<3.	µg/kgdrywt	1.3	2.0	EPA 8260	08/28/95	DW	
Total 1,2-Dichloroethene	<3.	µg/kgdrywt	1.3	2.0	EPA 8260	08/28/95	DW	
Chloroform	<7.	µg/kgdrywt	1.3	5.0	EPA 8260	08/28/95	DW	
1,2-Dichloroethane	<3.	µg/kgdrywt	1.3	2.0	EPA 8260	08/28/95	DW	
2-Butanone	J3	µg/kgdrywt	1.3	5.0	EPA 8260	08/28/95	DW	
1,1,1-Trichloroethane	<3.	µg/kgdrywt	1.3	2.0	EPA 8260	08/28/95	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.

09/19/95

LJO/jcbeaw/gbp(dw)/kwh
IH28VLS1

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1267-3
Report Date: 09/19/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SD004	Solid	K. RUSCZYK	08/16/95	08/16/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Carbon tetrachloride	<7.	µg/kgdrywt	1.3	5.0	EPA 8260	08/28/95	DW	
Bromodichloromethane	<7.	µg/kgdrywt	1.3	5.0	EPA 8260	08/28/95	DW	
1,2-Dichloropropane	<3.	µg/kgdrywt	1.3	2.5	EPA 8260	08/28/95	DW	
cis-1,3-Dichloropropene	<7.	µg/kgdrywt	1.3	5.0	EPA 8260	08/28/95	DW	
Trichloroethene	<3.	µg/kgdrywt	1.3	2.5	EPA 8260	08/28/95	DW	
Dibromochloromethane	<7.	µg/kgdrywt	1.3	5.0	EPA 8260	08/28/95	DW	
1,1,2-Trichloroethane	<7.	µg/kgdrywt	1.3	5.0	EPA 8260	08/28/95	DW	
Benzene	<3.	µg/kgdrywt	1.3	2.0	EPA 8260	08/28/95	DW	
trans-1,3-Dichloropropene	<7.	µg/kgdrywt	1.3	5.0	EPA 8260	08/28/95	DW	
Bromoform	<7.	µg/kgdrywt	1.3	5.0	EPA 8260	08/28/95	DW	
4-Methyl-2-pentanone	<4.	µg/kgdrywt	1.3	3.0	EPA 8260	08/28/95	DW	
2-Hexanone	<5.	µg/kgdrywt	1.3	4.0	EPA 8260	08/28/95	DW	
Tetrachloroethene	<3.	µg/kgdrywt	1.3	2.0	EPA 8260	08/28/95	DW	
1,1,2,2-Tetrachloroethane	JB1	µg/kgdrywt	1.3	5.0	EPA 8260	08/28/95	DW	
Toluene	<3.	µg/kgdrywt	1.3	2.0	EPA 8260	08/28/95	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.

09/19/95

LJO/jcbeaw/gbp(dw)/kwh
LH28VLS1

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1267-3
Report Date: 09/19/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SD004	Solid	K. RUSCZYK	08/16/95	08/16/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chlorobenzene	<7.	µg/kgdrywt	1.3	5.0	EPA 8260	08/28/95	DW	
Ethylbenzene	<3.	µg/kgdrywt	1.3	2.0	EPA 8260	08/28/95	DW	
Styrene	<3.	µg/kgdrywt	1.3	2.0	EPA 8260	08/28/95	DW	
Total Xylenes	<3.	µg/kgdrywt	1.3	2.0	EPA 8260	08/28/95	DW	
Dibromofluoromethane (Surr.)	110.	%	1.3		EPA 8260	08/28/95	DW	
Toluene-d8 (Surr.)	90.	%	1.3		EPA 8260	08/28/95	DW	
p-Bromofluorobenzene (Surr.)	88.	%	1.3		EPA 8260	08/28/95	DW	
1,2-Dichlorobenzene	<3.	µg/kgdrywt	1.3	2.0	EPA 8260	08/28/95	DW	
1,3-Dichlorobenzene	<3.	µg/kgdrywt	1.3	2.0	EPA 8260	08/28/95	DW	
1,4-Dichlorobenzene	<3.	µg/kgdrywt	1.3	2.0	EPA 8260	08/28/95	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.

09/19/95

LJO/jcbeaw/gbp (dw) /kwh
LN28VLS1

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
S9SD004

Lab Name: PACE, ME Contract:

Project No.: Site: Location: Group:

Matrix: (soil/water) SOIL Lab Sample ID: WL1267-3

Sample wt/vol: 5.0 (g/mL) g Lab File ID: F2778.D

Level: (low/med) LOW Date Received: 8/17/95

% Moisture: not dec. 20 Date Analyzed: 8/28/95

GC Column: RTX-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs found: 20 Concentration Units: (ug/L or ug/Kg) ug/kg

CAS Number	Compound Name	RT	Est. Conc.	Q
1.	Unknown	24.72	33	J
2.	Alkane	25.13	35	J
3.	Alkane	25.43	29	J
4.	Alkane	25.59	31	J
5.	Unknown	25.84	45	J
6.	Unknown	26.32	63	J
7.	Alkane	26.58	39	J
8.	Alkane	26.94	54	J
9.	Alkane	27.20	66	J
10.	C13H28 Isomer	27.46	94	J
11.	Alkane	27.54	55	J
12.	Alkane	27.65	46	J
13.	Alkane	27.76	44	J
14.	Alkane	28.34	52	J
15.	Unknown	28.62	57	J
16.	Unknown	28.73	41	J
17.	Alkane	28.79	38	J
18.	Alkane	28.90	88	J
19.	Unknown	29.13	34	J
20.	Alkane	29.20	31	J
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-1267-3
Report Date: 09/19/95
PO No. : 802LSOA

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SD004	Solid	K. RUSCZYK	08/16/95	08/16/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
TCL Semivolatile Organics by USEPA 8270								1,2,3,4
Phenol	<430.	µg/kgdrywt	1.3	330	EPA 8270	08/31/95	JC	
bis(2-Chloroethyl)ether	<430.	µg/kgdrywt	1.3	330	EPA 8270	08/31/95	JC	
2-Chlorophenol	<430.	µg/kgdrywt	1.3	330	EPA 8270	08/31/95	JC	
1,3-Dichlorobenzene	<430.	µg/kgdrywt	1.3	330	EPA 8270	08/31/95	JC	
1,4-Dichlorobenzene	430.	µg/kgdrywt	1.3	330	EPA 8270	08/31/95	JC	
1,2-Dichlorobenzene	<430.	µg/kgdrywt	1.3	330	EPA 8270	08/31/95	JC	
2-Methylphenol	<430.	µg/kgdrywt	1.3	330	EPA 8270	08/31/95	JC	
bis(2-Chloroisopropyl) ether	<430.	µg/kgdrywt	1.3	330	EPA 8270	08/31/95	JC	
4-Methylphenol	<430.	µg/kgdrywt	1.3	330	EPA 8270	08/31/95	JC	
n-Nitroso-dipropylamine	<430.	µg/kgdrywt	1.3	330	EPA 8270	08/31/95	JC	
Hexachloroethane	<430.	µg/kgdrywt	1.3	330	EPA 8270	08/31/95	JC	

* PQL (Practical 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 08/24/95 by MAM using EPA 3550
(2) "J" flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.
(3) "E" flag indicates an estimated value. The analyte was detected in the sample at a concentration greater than the standard calibration range.
(4) Internal standard area(s) are out of criteria. Reanalysis confirmed matrix interference.

09/19/95

LJO/jcbajc/gbp(dw)/kwh/sra
LH24S1

P.O. Box 720 - 340 County Road #5
Westbrook, ME 04098
TEL: 207-874-2400
FAX: 207-775-4029

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1267-3
Report Date: 09/19/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SD004	Solid	K. RUSCZYK	08/16/95	08/16/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Nitrobenzene	<430.	µg/kgdrywt	1.3	330	EPA 8270	08/31/95	JC	
Isophorone	<430.	µg/kgdrywt	1.3	330	EPA 8270	08/31/95	JC	
2-Nitrophenol	<430.	µg/kgdrywt	1.3	330	EPA 8270	08/31/95	JC	
2,4-Dimethylphenol	<430.	µg/kgdrywt	1.3	330	EPA 8270	08/31/95	JC	
bis(2-Chloroethoxy)methane	<430.	µg/kgdrywt	1.3	330	EPA 8270	08/31/95	JC	
2,4-Dichlorophenol	<430.	µg/kgdrywt	1.3	330	EPA 8270	08/31/95	JC	
1,2,4-Trichlorobenzene	<430.	µg/kgdrywt	1.3	330	EPA 8270	08/31/95	JC	
Naphthalene	3200.	µg/kgdrywt	1.3	330	EPA 8270	08/31/95	JC	
4-Chloroaniline	<430.	µg/kgdrywt	1.3	330	EPA 8270	08/31/95	JC	
Hexachlorobutadiene	<430.	µg/kgdrywt	1.3	330	EPA 8270	08/31/95	JC	
4-Chloro-3-methylphenol	<430.	µg/kgdrywt	1.3	330	EPA 8270	08/31/95	JC	
2-Methylnaphthalene	5000.	µg/kgdrywt	1.3	330	EPA 8270	08/31/95	JC	
Hexachlorocyclopentadiene	<430.	µg/kgdrywt	1.3	330	EPA 8270	08/31/95	JC	

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09/19/95

LJO/jcbajc/gbp(dw)/kwh/sra
IH24S1

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1267-3
Report Date: 09/19/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S3SD004	Solid	K. RUSCZYK	08/16/95	08/16/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
2,4,6-Trichlorophenol	<430.	µg/kgdrywt	1.3	330	EPA 8270	08/31/95	JC	
2,4,5-Trichlorophenol	<1100.	µg/kgdrywt	1.3	820	EPA 8270	08/31/95	JC	
2-Chloronaphthalene	<430.	µg/kgdrywt	1.3	330	EPA 8270	08/31/95	JC	
2-Nitroaniline	<1100.	µg/kgdrywt	1.3	820	EPA 8270	08/31/95	JC	
Dimethylphthalate	<430.	µg/kgdrywt	1.3	330	EPA 8270	08/31/95	JC	
Acenaphthylene	<430.	µg/kgdrywt	1.3	330	EPA 8270	08/31/95	JC	
2,6-Dinitrotoluene	<430.	µg/kgdrywt	1.3	330	EPA 8270	08/31/95	JC	
3-Nitroaniline	<1100.	µg/kgdrywt	1.3	820	EPA 8270	08/31/95	JC	
Acenaphthene	5200.	µg/kgdrywt	1.3	330	EPA 8270	08/31/95	JC	
2,4-Dinitrophenol	<1100.	µg/kgdrywt	1.3	820	EPA 8270	08/31/95	JC	
4-Nitrophenol	<1100.	µg/kgdrywt	1.3	820	EPA 8270	08/31/95	JC	
Dibenzofuran	3700.	µg/kgdrywt	1.3	330	EPA 8270	08/31/95	JC	
2,4-Dinitrotoluene	<430.	µg/kgdrywt	1.3	330	EPA 8270	08/31/95	JC	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

09/19/95

LJO/jcbajc/gbp(dw)/kwh/sra
IH24S1

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1267-3
Report Date: 09/19/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SDC04	Solid	K. RUSCZYK	08/16/95	08/16/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Diethylphthalate	<430.	µg/kgdrywt	1.3	330	EPA 8270	08/31/95	JC	
4-Chlorophenyl phenyl ether	<430.	µg/kgdrywt	1.3	330	EPA 8270	08/31/95	JC	
Fluorene	7000.	µg/kgdrywt	1.3	330	EPA 8270	08/31/95	JC	
4-Nitroaniline	<1100.	µg/kgdrywt	1.3	820	EPA 8270	08/31/95	JC	
4,6-Dinitro-2-methylphenol	<1100.	µg/kgdrywt	1.3	820	EPA 8270	08/31/95	JC	
n-Nitrosodiphenylamine	<430.	µg/kgdrywt	1.3	330	EPA 8270	08/31/95	JC	
4-Bromophenyl phenyl ether	<430.	µg/kgdrywt	1.3	330	EPA 8270	08/31/95	JC	
Hexachlorobenzene	<430.	µg/kgdrywt	1.3	330	EPA 8270	08/31/95	JC	
Pentachlorophenol	<1100.	µg/kgdrywt	1.3	820	EPA 8270	08/31/95	JC	
Phenanthrene	E40000	µg/kgdrywt	1.3	330	EPA 8270	08/31/95	JC	
Anthracene	E8000	µg/kgdrywt	1.3	330	EPA 8270	08/31/95	JC	
Carbazole	4800.	µg/kgdrywt	1.3	330	EPA 8270	08/31/95	JC	
Di-n-butylphthalate	J52	µg/kgdrywt	1.3	330	EPA 8270	08/31/95	JC	

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09/19/95

LJO/jcbajc/gbp(dw)/kwh/sra
LH24S1

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1267-3
Report Date: 09/19/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SD004	Solid	K. RUSCZYK	08/16/95	08/16/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Fluoranthene	E34000	µg/kgdrywt	1.3	330	EPA 8270	08/31/95	JC	
Pyrene	E29000	µg/kgdrywt	1.3	330	EPA 8270	08/31/95	JC	
Butyl benzylphthalate	E8000	µg/kgdrywt	1.3	330	EPA 8270	08/31/95	JC	
3,3'-Dichlorobenzidine	<430.	µg/kgdrywt	1.3	330	EPA 8270	08/31/95	JC	
Benzo(a)anthracene	E15000	µg/kgdrywt	1.3	330	EPA 8270	08/31/95	JC	
Chrysene	E14000	µg/kgdrywt	1.3	330	EPA 8270	08/31/95	JC	
bis(2-Ethylhexyl)phthalate	4400.	µg/kgdrywt	1.3	330	EPA 8270	08/31/95	JC	
Di-n-octylphthalate	<430.	µg/kgdrywt	1.3	330	EPA 8270	08/31/95	JC	
Benzo(b)fluoranthene	E14000	µg/kgdrywt	1.3	330	EPA 8270	08/31/95	JC	
Benzo(k)fluoranthene	4600.	µg/kgdrywt	1.3	330	EPA 8270	08/31/95	JC	
Benzo(a)pyrene	E11000	µg/kgdrywt	1.3	330	EPA 8270	08/31/95	JC	
Indeno(1,2,3-cd)pyrene	E7500	µg/kgdrywt	1.3	330	EPA 8270	08/31/95	JC	
Dibenzo(a,h)anthracene	1800.	µg/kgdrywt	1.3	330	EPA 8270	08/31/95	JC	

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09/19/95

LJO/jcbajc/gbp(dw)/kwh/sra
LH24S1

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1267-3
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EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SD004	Solid	K. RUSCZYK	08/16/95	08/16/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Benzo(g,h,i)perylene	6900.	µg/kgdrywt	1.3	330	EPA 8270	08/31/95	JC	
2-Fluorophenol(Surr.)	82.	%	1.3		EPA 8270	08/31/95	JC	
Phenol-d5(Surr.)	88.	%	1.3		EPA 8270	08/31/95	JC	
Nitrobenzene-d5(Surr.)	85.	%	1.3		EPA 8270	08/31/95	JC	
2-Fluorobiphenyl(Surr.)	109.	%	1.3		EPA 8270	08/31/95	JC	
2,4,6-Tribromophenol(Surr.)	68.	%	1.3		EPA 8270	08/31/95	JC	
Terphenyl-d14(Surr.)	104.	%	1.3		EPA 8270	08/31/95	JC	

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09/19/95

LJO/jcbajc/gbp(dw)/kwh/sra
IH24S1

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

S9SD004

Lab Name: PACE - NE Contract:

Lab Code: MAINE Case No: SAS No.: SDG No.: S9SD001

Matrix: (soil/water) SOIL Lab Sample ID: WL1267-3

Sample wt/vol: 30 (g/mL) g Lab File ID: Z8291

Level: (low/med) LOW Date Received: 8/17/95

% Moisture: not dec. 20 Date Extracted: 8/24/95

Concentrated Extract Volume 1000 (ul) Date Analyzed: 8/31/95

Injection Volume 1.0 (ul) Dilution Factor: 1.0

GPC Cleanup: Y (Y/N)

pH: N/A Concentration Units (ug/L or ug/Kg) ug/kg

Number TICs found: 19

	CAS Number	Compound Name	RT	Est. Conc.	Q
1.	123422	2-Pentanone, 4-hydroxy-4-methyl-	4.42	26000	JNAB
2.	90120	Naphthalene, 1-methyl-	12.85	2900	JN
3.		Dimethylnaphthalene Isomer	14.03	2700	J
4.		Dimethylnaphthalene Isomer	14.22	3200	J
5.		Dimethylnaphthalene Isomer	14.39	2900	J
6.		Dimethylnaphthalene Isomer	14.66	2000	J
7.	132650	Dibenzothiophene	18.64	240	JN
8.	16587523	Dibenzothiophene, 3-methyl-	19.76	200	JN
9.	7372885	Dibenzothiophene, 4-methyl-	19.98	230	JN
10.		PAH, MW = 192	20.23	520	J
11.		PAH, MW = 192	20.30	500	J
12.	203645	4H-Cyclopenta[def]phenanthrene	20.46	310	JN
13.		PAH, MW = 192	20.54	240	J
14.	35465715	2-Phenylnaphthalene	21.03	550	JN
15.		Dimethylphenanthrene Isomer	21.46	240	J
16.		Dimethylphenanthrene Isomer	21.65	330	J
17.	238846	11H-Benzo[a]fluorene	23.40	740	JN
18.	243174	11H-Benzo[b]fluorene	23.58	700	JN
19.	205823	Benzo[j]fluoranthene	28.69	6900	JN
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1267-3
Report Date: 09/19/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SD004	Solid	K. RUSCZYK	08/16/95	08/16/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
RE TCL Semivolatile Organics by USEPA 8270								1,2,3,4,5
Phenol	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/01/95	JC	
bis(2-Chloroethyl)ether	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/01/95	JC	
2-Chlorophenol	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/01/95	JC	
1,3-Dichlorobenzene	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/01/95	JC	
1,4-Dichlorobenzene	J420	µg/kgdrywt	1.3	330	EPA 8270	09/01/95	JC	
1,2-Dichlorobenzene	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/01/95	JC	
2-Methylphenol	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/01/95	JC	
bis(2-Chloroisopropyl) ether	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/01/95	JC	
4-Methylphenol	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/01/95	JC	
n-Nitroso-dipropylamine	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/01/95	JC	

* PQL (Practical 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 08/24/95 by MAM
(2) "J" flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.
(3) "E" flag indicates an estimated value. The analyte was detected in the sample at a concentration greater than the standard calibration range.
(4) "$" flag denotes surrogate compound recovery is out of criteria. Re-extraction or re-analysis confirmed matrix interference.
(5) Internal standard area(s) are out of criteria. Reanalysis confirmed matrix interference.

09/19/95

LJO/jcbajc/gbp(dw)/kwh/sra
LH24S1

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SD004	Solid	K. RUSCZYK	08/16/95	08/16/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Hexachloroethane	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/01/95	JC	
Nitrobenzene	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/01/95	JC	
Isophorone	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/01/95	JC	
2-Nitrophenol	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/01/95	JC	
2,4-Dimethylphenol	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/01/95	JC	
bis(2-Chloroethoxy)methane	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/01/95	JC	
2,4-Dichlorophenol	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/01/95	JC	
1,2,4-Trichlorobenzene	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/01/95	JC	
Naphthalene	3300.	µg/kgdrywt	1.3	330	EPA 8270	09/01/95	JC	
4-Chloroaniline	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/01/95	JC	
Hexachlorobutadiene	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/01/95	JC	
4-Chloro-3-methylphenol	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/01/95	JC	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

09/19/95

LJO/jcbajc/gbp(dw)/kwh/sra
LH24S1

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1267-3
Report Date: 09/19/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SD004	Solid	K. RUSCZYK	08/16/95	08/16/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
2-Methylnaphthalene	4900.	µg/kgdrywt	1.3	330	EPA 8270	09/01/95	JC	
Hexachlorocyclopentadiene	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/01/95	JC	
2,4,6-Trichlorophenol	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/01/95	JC	
2,4,5-Trichlorophenol	<1100.	µg/kgdrywt	1.3	820	EPA 8270	09/01/95	JC	
2-Chloronaphthalene	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/01/95	JC	
2-Nitroaniline	<1100.	µg/kgdrywt	1.3	820	EPA 8270	09/01/95	JC	
Dimethylphthalate	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/01/95	JC	
Acenaphthylene	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/01/95	JC	
2,6-Dinitrotoluene	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/01/95	JC	
3-Nitroaniline	<1100.	µg/kgdrywt	1.3	820	EPA 8270	09/01/95	JC	
Acenaphthene	5100.	µg/kgdrywt	1.3	330	EPA 8270	09/01/95	JC	
2,4-Dinitrophenol	<1100.	µg/kgdrywt	1.3	820	EPA 8270	09/01/95	JC	

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09/19/95

LJO/jcbajc/gbp(dw)/kwh/sra
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EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SD004	Solid	K. RUSCZYK	08/16/95	08/16/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
4-Nitrophenol	<1100.	µg/kgdrywt	1.3	820	EPA 8270	09/01/95	JC	
Dibenzofuran	3700.	µg/kgdrywt	1.3	330	EPA 8270	09/01/95	JC	
2,4-Dinitrotoluene	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/01/95	JC	
Diethylphthalate	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/01/95	JC	
4-Chlorophenyl phenyl ether	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/01/95	JC	
Fluorene	6900.	µg/kgdrywt	1.3	330	EPA 8270	09/01/95	JC	
4-Nitroaniline	<1100.	µg/kgdrywt	1.3	820	EPA 8270	09/01/95	JC	
4,6-Dinitro-2-methylphenol	<1100.	µg/kgdrywt	1.3	820	EPA 8270	09/01/95	JC	
n-Nitrosodiphenylamine	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/01/95	JC	
4-Bromophenyl phenyl ether	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/01/95	JC	
Hexachlorobenzene	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/01/95	JC	
Pentachlorophenol	<1100.	µg/kgdrywt	1.3	820	EPA 8270	09/01/95	JC	

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09/19/95

LJO/jcbajc/gbp(dw)/kwh/sra
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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SD004	Solid	K. RUSCZYK	08/16/95	08/16/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Phenanthrene	E42000	µg/kgdrywt	1.3	330	EPA 8270	09/01/95	JC	
Anthracene	E8500	µg/kgdrywt	1.3	330	EPA 8270	09/01/95	JC	
Carbazole	4900.	µg/kgdrywt	1.3	330	EPA 8270	09/01/95	JC	
Di-n-butylphthalate	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/01/95	JC	
Fluoranthene	E37000	µg/kgdrywt	1.3	330	EPA 8270	09/01/95	JC	
Pyrene	E31000	µg/kgdrywt	1.3	330	EPA 8270	09/01/95	JC	
Butyl benzylphthalate	E7800	µg/kgdrywt	1.3	330	EPA 8270	09/01/95	JC	
3,3'-Dichlorobenzidine	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/01/95	JC	
Benzo(a)anthracene	E16000	µg/kgdrywt	1.3	330	EPA 8270	09/01/95	JC	
Chrysene	E14000	µg/kgdrywt	1.3	330	EPA 8270	09/01/95	JC	
bis(2-Ethylhexyl)phthalate	4400.	µg/kgdrywt	1.3	330	EPA 8270	09/01/95	JC	
Di-n-octylphthalate	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/01/95	JC	

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09/19/95

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

REPORT OF LABORATORY ANALYSIS

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EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SD004	Solid	K. RUSCZYK	08/16/95	08/16/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Benzo(b)fluoranthene	E17000	µg/kgdrywt	1.3	330	EPA 8270	09/01/95	JC	
Benzo(k)fluoranthene	4400.	µg/kgdrywt	1.3	330	EPA 8270	09/01/95	JC	
Benzo(a)pyrene	E12000	µg/kgdrywt	1.3	330	EPA 8270	09/01/95	JC	
Indeno(1,2,3-cd)pyrene	E8200	µg/kgdrywt	1.3	330	EPA 8270	09/01/95	JC	
Dibenzo(a,h)anthracene	1900.	µg/kgdrywt	1.3	330	EPA 8270	09/01/95	JC	
Benzo(g,h,i)perylene	7300.	µg/kgdrywt	1.3	330	EPA 8270	09/01/95	JC	
2-Fluorophenol(Surr.)	89.	%	1.3		EPA 8270	09/01/95	JC	
Phenol-d5(Surr.)	88.	%	1.3		EPA 8270	09/01/95	JC	
Nitrobenzene-d5(Surr.)	91.	%	1.3		EPA 8270	09/01/95	JC	
2-Fluorobiphenyl(Surr.)	115.	%	1.3		EPA 8270	09/01/95	JC	
2,4,6-Tribromophenol(Surr.)	69.	%	1.3		EPA 8270	09/01/95	JC	
Terphenyl-d14(Surr.)	138$	%	1.3		EPA 8270	09/01/95	JC	

* PQL (Practical 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 08/24/95 by MAM
(2) "J" flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.
(3) "E" flag indicates an estimated value. The analyte was detected in the sample at a concentration greater than the standard calibration range.
(4) "$" flag denotes surrogate compound recovery is out of criteria. Re-extraction or re-analysis confirmed matrix interference.
(5) Internal standard area(s) are out of criteria. Reanalysis confirmed matrix interference.

09/19/95

LJO/jcbajc/gbp(dw)/kwh/sra
LH24S1

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

S9SD004RE

Lab Name: PACE - NE Contract:

Lab Code: MAINE Case No: SAS No.: SDG No.: S9SD001

Matrix: (soil/water) SOIL Lab Sample ID: WL1267-3RE

Sample wt/vol: 30 (g/mL) g Lab File ID: Z8307

Level: (low/med) LOW Date Received: 8/17/95

% Moisture: not dec. 20 Date Extracted: 8/24/95

Concentrated Extract Volume 1000 (ul) Date Analyzed: 9/1/95

Injection Volume 1.0 (ul) Dilution Factor: 1.0

GPC Cleanup: Y (Y/N)

pH: N/A Concentration Units (ug/L or ug/Kg) ug/kg

Number TICs found: 19

	CAS Number	Compound Name	RT	Est. Conc.	Q
1.	123422	2-Pentanone, 4-hydroxy-4-methyl-	4.33	31000	JNAB
2.	90120	Naphthalene, 1-methyl-	12.76	3400	JN
3.		Ethylnaphthalene isomer	13.96	3500	J
4.		Dimethylnaphthalene isomer	14.14	4200	J
5.		Dimethylnaphthalene isomer	14.31	3600	J
6.		Dimethylnaphthalene isomer	14.37	2500	J
7.	132650	Dibenzothiophene	18.54	270	JN
8.	16587523	Dibenzothiophene, 3-methyl-	19.67	190	JN
9.	7372885	Dibenzothiophene, 4-methyl-	19.89	200	JN
10.	613127	Anthracene, 2-methyl-	20.14	490	JN
11.		C15H12 isomer PAH	20.20	470	J
12.	203645	4H-Cyclopenta[def]phenanthrene	20.36	310	JN
13.		C15H12 isomer	20.44	230	J
14.		Unknown	20.94	360	J
15.		Dimethylphenanthrene isomer	21.37	280	J
16.		Dimethylphenanthrene isomer	21.55	300	J
17.		C17H12 isomer PAH	23.31	760	J
18.		C17H12 isomer PAH	23.48	690	J
19.	205823	Benzo[j]fluoranthene	28.58	2800	JN
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1267-3
Report Date: 09/19/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SD004	Solid	K. RUSCZYK	08/16/95	08/16/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
DL TCL Semivolatile Organics by USEPA 8270								1,2
Phenol	<3600.	µg/kgdrywt	11.0	330	EPA 8270	09/05/95	JC	
bis(2-Chloroethyl)ether	<3600.	µg/kgdrywt	11.0	330	EPA 8270	09/05/95	JC	
2-Chlorophenol	<3600.	µg/kgdrywt	11.0	330	EPA 8270	09/05/95	JC	
1,3-Dichlorobenzene	<3600.	µg/kgdrywt	11.0	330	EPA 8270	09/05/95	JC	
1,4-Dichlorobenzene	<3600.	µg/kgdrywt	11.0	330	EPA 8270	09/05/95	JC	
1,2-Dichlorobenzene	<3600.	µg/kgdrywt	11.0	330	EPA 8270	09/05/95	JC	
2-Methylphenol	<3600.	µg/kgdrywt	11.0	330	EPA 8270	09/05/95	JC	
bis(2-Chloroisopropyl) ether	<3600.	µg/kgdrywt	11.0	330	EPA 8270	09/05/95	JC	
4-Methylphenol	<3600.	µg/kgdrywt	11.0	330	EPA 8270	09/05/95	JC	
n-Nitroso-dipropylamine	<3600.	µg/kgdrywt	11.0	330	EPA 8270	09/05/95	JC	
Hexachloroethane	<3600.	µg/kgdrywt	11.0	330	EPA 8270	09/05/95	JC	
Nitrobenzene	<3600.	µg/kgdrywt	11.0	330	EPA 8270	09/05/95	JC	
Isophorone	<3600.	µg/kgdrywt	11.0	330	EPA 8270	09/05/95	JC	

* PQL (Practical 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 08/24/95 by MAM using EPA 3550
(2) "J" flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.

09/19/95

LJO/jcbajc/gbp(dw)/kwh/sra
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pace INCORPORATED
ENVIRONMENTAL LABORATORIES

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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SD004	Solid	K. RUSCZYK	08/16/95	08/16/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
2-Nitrophenol	<3600.	µg/kgdrywt	11.0	330	EPA 8270	09/05/95	JC	
2,4-Dimethylphenol	<3600.	µg/kgdrywt	11.0	330	EPA 8270	09/05/95	JC	
bis(2-Chloroethoxy)methane	<3600.	µg/kgdrywt	11.0	330	EPA 8270	09/05/95	JC	
2,4-Dichlorophenol	<3600.	µg/kgdrywt	11.0	330	EPA 8270	09/05/95	JC	
1,2,4-Trichlorobenzene	<3600.	µg/kgdrywt	11.0	330	EPA 8270	09/05/95	JC	
Naphthalene	J3500	µg/kgdrywt	11.0	330	EPA 8270	09/05/95	JC	
4-Chloroaniline	<3600.	µg/kgdrywt	11.0	330	EPA 8270	09/05/95	JC	
Hexachlorobutadiene	<3600.	µg/kgdrywt	11.0	330	EPA 8270	09/05/95	JC	
4-Chloro-3-methylphenol	<3600.	µg/kgdrywt	11.0	330	EPA 8270	09/05/95	JC	
2-Methylnaphthalene	6100.	µg/kgdrywt	11.0	330	EPA 8270	09/05/95	JC	
Hexachlorocyclopentadiene	<3600.	µg/kgdrywt	11.0	330	EPA 8270	09/05/95	JC	
2,4,6-Trichlorophenol	<3600.	µg/kgdrywt	11.0	330	EPA 8270	09/05/95	JC	
2,4,5-Trichlorophenol	<9000.	µg/kgdrywt	11.0	820	EPA 8270	09/05/95	JC	
2-Chloronaphthalene	<3600.	µg/kgdrywt	11.0	330	EPA 8270	09/05/95	JC	
2-Nitroaniline	<9000.	µg/kgdrywt	11.0	820	EPA 8270	09/05/95	JC	

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SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SD004	Solid	K. RUSCZYK	08/16/95	08/16/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Dimethylphthalate	<3600.	µg/kgdrywt	11.0	330	EPA 8270	09/05/95	JC	
Acenaphthylene	<3600.	µg/kgdrywt	11.0	330	EPA 8270	09/05/95	JC	
2,6-Dinitrotoluene	<3600.	µg/kgdrywt	11.0	330	EPA 8270	09/05/95	JC	
3-Nitroaniline	<9000.	µg/kgdrywt	11.0	820	EPA 8270	09/05/95	JC	
Acenaphthene	5800.	µg/kgdrywt	11.0	330	EPA 8270	09/05/95	JC	
2,4-Dinitrophenol	<9000.	µg/kgdrywt	11.0	820	EPA 8270	09/05/95	JC	
4-Nitrophenol	<9000.	µg/kgdrywt	11.0	820	EPA 8270	09/05/95	JC	
Dibenzofuran	4200.	µg/kgdrywt	11.0	330	EPA 8270	09/05/95	JC	
2,4-Dinitrotoluene	<3600.	µg/kgdrywt	11.0	330	EPA 8270	09/05/95	JC	
Diethylphthalate	<3600.	µg/kgdrywt	11.0	330	EPA 8270	09/05/95	JC	
4-Chlorophenyl phenyl ether	<3600.	µg/kgdrywt	11.0	330	EPA 8270	09/05/95	JC	
Fluorene	8800.	µg/kgdrywt	11.0	330	EPA 8270	09/05/95	JC	
4-Nitroaniline	<9000.	µg/kgdrywt	11.0	820	EPA 8270	09/05/95	JC	
4,6-Dinitro-2-methylphenol	<9000.	µg/kgdrywt	11.0	820	EPA 8270	09/05/95	JC	
n-Nitrosodiphenylamine	<3600.	µg/kgdrywt	11.0	330	EPA 8270	09/05/95	JC	

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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SD004	Solid	K. RUSCZYK	08/16/95	08/16/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
4-Bromophenyl phenyl ether	<3600.	µg/kgdrywt	11.0	330	EPA 8270	09/05/95	JC	
Hexachlorobenzene	<3600.	µg/kgdrywt	11.0	330	EPA 8270	09/05/95	JC	
Pentachlorophenol	<9000.	µg/kgdrywt	11.0	820	EPA 8270	09/05/95	JC	
Phenanthrene	51000.	µg/kgdrywt	11.0	330	EPA 8270	09/05/95	JC	
Anthracene	8500.	µg/kgdrywt	11.0	330	EPA 8270	09/05/95	JC	
Carbazole	4900.	µg/kgdrywt	11.0	330	EPA 8270	09/05/95	JC	
Di-n-butylphthalate	<3600.	µg/kgdrywt	11.0	330	EPA 8270	09/05/95	JC	
Fluoranthene	46000.	µg/kgdrywt	11.0	330	EPA 8270	09/05/95	JC	
Pyrene	35000.	µg/kgdrywt	11.0	330	EPA 8270	09/05/95	JC	
Butyl benzylphthalate	7000.	µg/kgdrywt	11.0	330	EPA 8270	09/05/95	JC	
3,3'-Dichlorobenzidine	<3600.	µg/kgdrywt	11.0	330	EPA 8270	09/05/95	JC	
Benzo(a)anthracene	15000.	µg/kgdrywt	11.0	330	EPA 8270	09/05/95	JC	
Chrysene	14000.	µg/kgdrywt	11.0	330	EPA 8270	09/05/95	JC	
bis(2-Ethylhexyl)phthalate	3900.	µg/kgdrywt	11.0	330	EPA 8270	09/05/95	JC	
Di-n-octylphthalate	<3600.	µg/kgdrywt	11.0	330	EPA 8270	09/05/95	JC	

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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIV
S9SD004	Solid	K. RUSCZYK	08/16/95	08/16/

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NO
Benzo(b)fluoranthene	16000.	µg/kgdrywt	11.0	330	EPA 8270	09/05/95	JC	
Benzo(k)fluoranthene	5400.	µg/kgdrywt	11.0	330	EPA 8270	09/05/95	JC	
Benzo(a)pyrene	11000.	µg/kgdrywt	11.0	330	EPA 8270	09/05/95	JC	
Indeno(1,2,3-cd)pyrene	8500.	µg/kgdrywt	11.0	330	EPA 8270	09/05/95	JC	
Dibenzo(a,h)anthracene	J1800.	µg/kgdrywt	11.0	330	EPA 8270	09/05/95	JC	
Benzo(g,h,i)perylene	7600.	µg/kgdrywt	11.0	330	EPA 8270	09/05/95	JC	
2-Fluorophenol(Surr.)	87.	%	11.0		EPA 8270	09/05/95	JC	
Phenol-d5(Surr.)	88.	%	11.0		EPA 8270	09/05/95	JC	
Nitrobenzene-d5(Surr.)	70.	%	11.0		EPA 8270	09/05/95	JC	
2-Fluorobiphenyl(Surr.)	107.	%	11.0		EPA 8270	09/05/95	JC	
2,4,6-Tribromophenol(Surr.)	77.	%	11.0		EPA 8270	09/05/95	JC	
Terphenyl-d14(Surr.)	96.	%	11.0		EPA 8270	09/05/95	JC	

* 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 '<' val

09/19/95

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LH24S1

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

S9SD004DL

Lab Name: PACE - NE Contract:

Lab Code: MAINE Case No: SAS No.: SDG No.: S9SD001

Matrix: (soil/water) SOIL Lab Sample ID: WL1267-3DL

Sample wt/vol: 30 (g/mL) g Lab File ID: Z8340

Level: (low/med) LOW Date Received: 8/17/95

% Moisture: not dec. 20 Date Extracted: 8/24/95

Concentrated Extract Volume 1000 (ul) Date Analyzed: 9/5/95

Injection Volume 1.0 (ul) Dilution Factor: 9.0

GPC Cleanup: Y (Y/N)

pH: N/A Concentration Units (ug/L or ug/Kg) ug/kg

Number TICs found: 22

	CAS Number	Compound Name	RT	Est. Conc.	Q
1.	90120	Naphthalene, 1-methyl-	12.56	5200	JNAB
2.		Ethyl Naphthalene Isomer	13.76	3300	J
3.		Dimethyl Naphthalene Isomer	13.94	4100	J
4.		Dimethyl Naphthalene Isomer	14.11	3700	J
5.		Dimethyl Naphthalene Isomer	14.17	2700	J
6.	132650	Dibenzothiophene	18.33	6500	JN
7.	16587523	Dibenzothiophene, 3-methyl-	19.45	5500	JN
8.	7372885	Dibenzothiophene, 4-methyl-	19.67	4900	JN
9.		C15H12 Isomer	19.91	13000	J
10.		C15H12 Isomer PAH	19.97	14000	J
11.	203645	4H-Cyclopenta[def]phenanthrene	20.14	11000	JN
12.		C15H12 Isomer PAH	20.22	6000	J
13.	1207154	2,8-Dimethyldibenzo(B,D)thiophene	20.50	3900	JN
14.		Unknown	20.71	9700	J
15.		Dimethyl Phenanthrene Isomer	21.07	4900	J
16.		Dimethyl Phenanthrene Isomer	21.14	7900	J
17.		Dimethyl Phenanthrene Isomer	21.31	8100	J
18.		Dimethyl Phenanthrene Isomer	21.38	4800	J
19.		C17H12 Isomer	23.07	3600	J
20.		C17H12 Isomer	23.24	3100	J
21.		C17H12 Isomer	23.30	2700	J
22.	205823	Benzo[j]fluoranthene	28.32	205823	JN
23.					
24.					
25.					
26.					
27.					
28.					

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1267-6
Report Date: 09/19/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SDXD1	Solid	K. RUSCZYK	08/16/95	08/16/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
DL - Volatile Organics by EPA 8260								1,2
Chloromethane	<32.	µg/kgdrywt	6.3	5.0	EPA 8260	08/29/95	TG	
Bromomethane	<32.	µg/kgdrywt	6.3	5.0	EPA 8260	08/29/95	TG	
Vinyl chloride	<13.	µg/kgdrywt	6.3	2.0	EPA 8260	08/29/95	TG	
Chloroethane	<13.	µg/kgdrywt	6.3	2.0	EPA 8260	08/29/95	TG	
Methylene chloride	B50	µg/kgdrywt	6.3	3.0	EPA 8260	08/29/95	TG	
Acetone	JB19	µg/kgdrywt	6.3	5.0	EPA 8260	08/29/95	TG	
Carbon disulfide	<32.	µg/kgdrywt	6.3	5.0	EPA 8260	08/29/95	TG	
1,1-Dichloroethene	<6.	µg/kgdrywt	6.3	1.0	EPA 8260	08/29/95	TG	
1,1-Dichloroethane	<13.	µg/kgdrywt	6.3	2.0	EPA 8260	08/29/95	TG	
Total 1,2-Dichloroethene	<13.	µg/kgdrywt	6.3	2.0	EPA 8260	08/29/95	TG	
Chloroform	<32.	µg/kgdrywt	6.3	5.0	EPA 8260	08/29/95	TG	
1,2-Dichloroethane	<13.	µg/kgdrywt	6.3	2.0	EPA 8260	08/29/95	TG	
2-Butanone	JB5	µg/kgdrywt	6.3	5.0	EPA 8260	08/29/95	TG	
1,1,1-Trichloroethane	<13.	µg/kgdrywt	6.3	2.0	EPA 8260	08/29/95	TG	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) "J" flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.
(2) "B" flag denotes detection of this analyte in the laboratory method blank analyzed concurrently with the sample.

09/19/95

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REPORT OF LABORATORY ANALYSIS

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Report Date: 09/19/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SDD1	Solid	K. RUSCZYK	08/16/95	08/16/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Carbon tetrachloride	<32.	µg/kgdrywt	6.3	5.0	EPA 8260	08/29/95	TG	
Bromodichloromethane	<32.	µg/kgdrywt	6.3	5.0	EPA 8260	08/29/95	TG	
1,2-Dichloropropane	<16.	µg/kgdrywt	6.3	2.5	EPA 8260	08/29/95	TG	
cis-1,3-Dichloropropene	<32.	µg/kgdrywt	6.3	5.0	EPA 8260	08/29/95	TG	
Trichloroethene	<16.	µg/kgdrywt	6.3	2.5	EPA 8260	08/29/95	TG	
Dibromochloromethane	<32.	µg/kgdrywt	6.3	5.0	EPA 8260	08/29/95	TG	
1,1,2-Trichloroethane	<32.	µg/kgdrywt	6.3	5.0	EPA 8260	08/29/95	TG	
Benzene	<13.	µg/kgdrywt	6.3	2.0	EPA 8260	08/29/95	TG	
trans-1,3-Dichloropropene	<32.	µg/kgdrywt	6.3	5.0	EPA 8260	08/29/95	TG	
Bromoform	<32.	µg/kgdrywt	6.3	5.0	EPA 8260	08/29/95	TG	
4-Methyl-2-pentanone	<19.	µg/kgdrywt	6.3	3.0	EPA 8260	08/29/95	TG	
2-Hexanone	<25.	µg/kgdrywt	6.3	4.0	EPA 8260	08/29/95	TG	
Tetrachloroethene	JB8	µg/kgdrywt	6.3	2.0	EPA 8260	08/29/95	TG	
1,1,2,2-Tetrachloroethane	<32.	µg/kgdrywt	6.3	5.0	EPA 8260	08/29/95	TG	
Toluene	<13.	µg/kgdrywt	6.3	2.0	EPA 8260	08/29/95	TG	

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09/19/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1267-6
Report Date: 09/19/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SDXD1	Solid	K. RUSCZYK	08/16/95	08/16/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chlorobenzene	<32.	µg/kgdrywt	6.3	5.0	EPA 8260	08/29/95	TG	
Ethylbenzene	<13.	µg/kgdrywt	6.3	2.0	EPA 8260	08/29/95	TG	
Styrene	<13.	µg/kgdrywt	6.3	2.0	EPA 8260	08/29/95	TG	
Total Xylenes	<13.	µg/kgdrywt	6.3	2.0	EPA 8260	08/29/95	TG	
Dibromofluoromethane (Surr.)	110.	%	6.3		EPA 8260	08/29/95	TG	
Toluene-d8 (Surr.)	89.	%	6.3		EPA 8260	08/29/95	TG	
p-Bromofluorobenzene (Surr.)	100.	%	6.3		EPA 8260	08/29/95	TG	
1,2-Dichlorobenzene	<13.	µg/kgdrywt	6.3	2.0	EPA 8260	08/29/95	TG	
1,3-Dichlorobenzene	<13.	µg/kgdrywt	6.3	2.0	EPA 8260	08/29/95	TG	
1,4-Dichlorobenzene	<13.	µg/kgdrywt	6.3	2.0	EPA 8260	08/29/95	TG	

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09/19/95

LJO/jcbabb(dw)/kwh/tjg
LH29VLS1

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
S9SDXD1DL

Lab Name: PACE, ME Contract:

Project No.: Site: Location: Group:

Matrix: (soil/water) SOIL Lab Sample ID: WL1267-6DL

Sample wt/vol: 5.0 (g/mL) g Lab File ID: F2802.D

Level: (low/med) LOW Date Received: 8/17/95

% Moisture: not dec. 21 Date Analyzed: 8/29/95

GC Column: RTX-624 ID: 0.18 (mm) Dilution Factor: 5.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs found: 10 Concentration Units: (ug/L or ug/Kg) ug/kg

CAS Number	Compound Name	RT	Est. Conc.	Q
1.	Hydrocarbon	25.86	250	J
2.	Hydrocarbon	26.34	250	J
3.	Alkane	26.96	150	J
4.	Unknown	27.21	190	J
5.	Alkane	27.46	160	J
6.	Hydrocarbon	27.55	170	J
7.	Alkene	28.34	190	J
8.	Unknown	28.62	230	J
9.	Alkane	28.90	270	J
10.	Substituted Cyclohexane	29.13	140	J
11.				
12.				
13.				
14.				
15.				
16.				
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19.				
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30.				

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1267-6
Report Date: 09/19/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SDXD1	Solid	K. RUSCZYK	08/16/95	08/16/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
TCL Semivolatile Organics by USEPA 8270								1,2
Phenol	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/04/95	JC	
bis(2-Chloroethyl)ether	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/04/95	JC	
2-Chlorophenol	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/04/95	JC	
1,3-Dichlorobenzene	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/04/95	JC	
1,4-Dichlorobenzene	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/04/95	JC	
1,2-Dichlorobenzene	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/04/95	JC	
2-Methylphenol	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/04/95	JC	
bis(2-Chloroisopropyl) ether	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/04/95	JC	
4-Methylphenol	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/04/95	JC	
n-Nitroso-dipropylamine	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/04/95	JC	
Hexachloroethane	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/04/95	JC	
Nitrobenzene	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/04/95	JC	
Isophorone	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/04/95	JC	

* PQL (Practical 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 08/24/95 by MAM using EPA 3550
(2) "J" flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.

09/19/95

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1267-6
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EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SDXD1	Solid	K. RUSCZYK	08/16/95	08/16/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
2-Nitrophenol	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/04/95	JC	
2,4-Dimethylphenol	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/04/95	JC	
bis(2-Chloroethoxy)methane	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/04/95	JC	
2,4-Dichlorophenol	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/04/95	JC	
1,2,4-Trichlorobenzene	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/04/95	JC	
Naphthalene	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/04/95	JC	
4-Chloroaniline	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/04/95	JC	
Hexachlorobutadiene	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/04/95	JC	
4-Chloro-3-methylphenol	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/04/95	JC	
2-Methylnaphthalene	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/04/95	JC	
Hexachlorocyclopentadiene	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/04/95	JC	
2,4,6-Trichlorophenol	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/04/95	JC	
2,4,5-Trichlorophenol	<1100.	µg/kgdrywt	1.3	820	EPA 8270	09/04/95	JC	
2-Chloronaphthalene	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/04/95	JC	
2-Nitroaniline	<1100.	µg/kgdrywt	1.3	820	EPA 8270	09/04/95	JC	

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09/19/95

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

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1267-6
Report Date: 09/19/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SDXD1	Solid	K. RUSCZYK	08/16/95	08/16/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Dimethylphthalate	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/04/95	JC	
Acenaphthylene	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/04/95	JC	
2,6-Dinitrotoluene	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/04/95	JC	
3-Nitroaniline	<1100.	µg/kgdrywt	1.3	820	EPA 8270	09/04/95	JC	
Acenaphthene	J59	µg/kgdrywt	1.3	330	EPA 8270	09/04/95	JC	
2,4-Dinitrophenol	<1100.	µg/kgdrywt	1.3	820	EPA 8270	09/04/95	JC	
4-Nitrophenol	<1100.	µg/kgdrywt	1.3	820	EPA 8270	09/04/95	JC	
Dibenzofuran	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/04/95	JC	
2,4-Dinitrotoluene	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/04/95	JC	
Diethylphthalate	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/04/95	JC	
4-Chlorophenyl phenyl ether	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/04/95	JC	
Fluorene	J84	µg/kgdrywt	1.3	330	EPA 8270	09/04/95	JC	
4-Nitroaniline	<1100.	µg/kgdrywt	1.3	820	EPA 8270	09/04/95	JC	
4,6-Dinitro-2-methylphenol	<1100.	µg/kgdrywt	1.3	820	EPA 8270	09/04/95	JC	
n-Nitrosodiphenylamine	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/04/95	JC	

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09/19/95

LJO/jcbajc/gbp(dw)/kwh/sra
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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SDXD1	Solid	K. RUSCZYK	08/16/95	08/16/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
4-Bromophenyl phenyl ether	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/04/95	JC	
Hexachlorobenzene	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/04/95	JC	
Pentachlorophenol	<1100.	µg/kgdrywt	1.3	820	EPA 8270	09/04/95	JC	
Phenanthrene	900.	µg/kgdrywt	1.3	330	EPA 8270	09/04/95	JC	
Anthracene	J200	µg/kgdrywt	1.3	330	EPA 8270	09/04/95	JC	
Carbazole	J210	µg/kgdrywt	1.3	330	EPA 8270	09/04/95	JC	
Di-n-butylphthalate	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/04/95	JC	
Fluoranthene	4100.	µg/kgdrywt	1.3	330	EPA 8270	09/04/95	JC	
Pyrene	2900.	µg/kgdrywt	1.3	330	EPA 8270	09/04/95	JC	
Butyl benzylphthalate	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/04/95	JC	
3,3'-Dichlorobenzidine	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/04/95	JC	
Benzo(a)anthracene	1400.	µg/kgdrywt	1.3	330	EPA 8270	09/04/95	JC	
Chrysene	1600.	µg/kgdrywt	1.3	330	EPA 8270	09/04/95	JC	
bis(2-Ethylhexyl)phthalate	660.	µg/kgdrywt	1.3	330	EPA 8270	09/04/95	JC	
Di-n-octylphthalate	<430.	µg/kgdrywt	1.3	330	EPA 8270	09/04/95	JC	

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09/19/95

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

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EA Engineering
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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SDXD1	Solid	K. RUSCZYK	08/16/95	08/16/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Benzo(b)fluoranthene	1800.	µg/kgdrywt	1.3	330	EPA 8270	09/04/95	JC	
Benzo(k)fluoranthene	610.	µg/kgdrywt	1.3	330	EPA 8270	09/04/95	JC	
Benzo(a)pyrene	1200.	µg/kgdrywt	1.3	330	EPA 8270	09/04/95	JC	
Indeno(1,2,3-cd)pyrene	790.	µg/kgdrywt	1.3	330	EPA 8270	09/04/95	JC	
Dibenzo(a,h)anthracene	J190	µg/kgdrywt	1.3	330	EPA 8270	09/04/95	JC	
Benzo(g,h,i)perylene	720.	µg/kgdrywt	1.3	330	EPA 8270	09/04/95	JC	
2-Fluorophenol(Surr.)	78.	%	1.3		EPA 8270	09/04/95	JC	
Phenol-d5(Surr.)	83.	%	1.3		EPA 8270	09/04/95	JC	
Nitrobenzene-d5(Surr.)	81.	%	1.3		EPA 8270	09/04/95	JC	
2-Fluorobiphenyl(Surr.)	95.	%	1.3		EPA 8270	09/04/95	JC	
2,4,6-Tribromophenol(Surr.)	86.	%	1.3		EPA 8270	09/04/95	JC	
Terphenyl-d14(Surr.)	91.	%	1.3		EPA 8270	09/04/95	JC	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

09/19/95

LJO/jcbajc/gbp(dw)/kwh/sra
LH24S1

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1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

S9SDXD1

Lab Name: PACE - NE Contract:

Lab Code: MAINE Case No: SAS No.: SDG No.: S9SD001

Matrix: (soil/water) SOIL Lab Sample ID: WL1267-6

Sample wt/vol: 30 (g/mL) g Lab File ID: Z8329

Level: (low/med) LOW Date Received: 8/17/95

% Moisture: not dec. 21 Date Extracted: 8/24/95

Concentrated Extract Volume 1000 (ul) Date Analyzed: 9/4/95

Injection Volume 1.0 (ul) Dilution Factor: 1.0

GPC Cleanup: Y (Y/N)

pH: N/A Concentration Units (ug/L or ug/Kg) ug/kg

Number TICs found: 21

CAS Number	Compound Name	RT	Est. Conc.	Q
1. 123422	4-hydroxy-4-methyl-2-Pentanone	4.19	38000	JNAB
2.	Unknown	5.65	1400	JB
3.	Unknown	9.70	360	J
4.	Alkane	11.08	360	J
5.	Cycloalkane	11.19	280	J
6.	Alkane	11.31	290	J
7.	Alkane	11.71	330	J
8.	Unknown	11.79	280	J
9.	Unknown	11.86	290	J
10. 41446688	3-Tetradecene, (E)-	12.05	600	JN
11.	Unknown	12.25	380	J
12.	Unknown	12.53	380	J
13.	Alkane	12.66	380	J
14.	Unknown	13.06	610	J
15. 40710701	Octatetracontane, 1-iodo-	13.18	450	J
16.	Alkane	13.87	490	J
17. 54832836	1H-Indend, octahydro-2,2,4,4,7,7-	14.23	1100	JN
	hexamethyl-,trans-			
18. 21210	DECAHYDRO-4,4,8,9,10-PENTA	14.75	720	JN
	METHYLNAPHTHALENE (ISOMER			
19.	Unknown	24.77	730	J
20.	Alkane	27.53	670	J
21. 205823	Benzo[j]fluoranthene	28.37	690	JN
22.				
23.				
24.				
25.				
26.				
27.				
28.				

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1267-8
Report Date: 09/19/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SD001	Solid	K. RUSCZYK	08/16/95	08/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Volatile Organics by EPA 8260								1,2,3,4
Reanalysis								
Chloromethane	<8.	µg/kgdrywt	1.5	5.0	EPA 8260	08/29/95	TG	
Bromomethane	<8.	µg/kgdrywt	1.5	5.0	EPA 8260	08/29/95	TG	
Vinyl chloride	<3.	µg/kgdrywt	1.5	2.0	EPA 8260	08/29/95	TG	
Chloroethane	<3.	µg/kgdrywt	1.5	2.0	EPA 8260	08/29/95	TG	
Methylene chloride	B17	µg/kgdrywt	1.5	3.0	EPA 8260	08/29/95	TG	
Acetone	B15	µg/kgdrywt	1.5	5.0	EPA 8260	08/29/95	TG	
Carbon disulfide	<8.	µg/kgdrywt	1.5	5.0	EPA 8260	08/29/95	TG	
1,1-Dichloroethene	<2.	µg/kgdrywt	1.5	1.0	EPA 8260	08/29/95	TG	
1,1-Dichloroethane	<3.	µg/kgdrywt	1.5	2.0	EPA 8260	08/29/95	TG	
Total 1,2-Dichloroethene	<3.	µg/kgdrywt	1.5	2.0	EPA 8260	08/29/95	TG	
Chloroform	<8.	µg/kgdrywt	1.5	5.0	EPA 8260	08/29/95	TG	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

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

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

(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.

09/19/95

LJO/jcbeaw/gbp(dw)/kwh
LH29VLS1

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1267-8
Report Date: 09/19/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SD001	Solid	K. RUSCZYK	08/16/95	08/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
1,2-Dichloroethane	<3.	µg/kgdrywt	1.5	2.0	EPA 8260	08/29/95	TG	
2-Butanone	JB5	µg/kgdrywt	1.5	5.0	EPA 8260	08/29/95	TG	
1,1,1-Trichloroethane	<3.	µg/kgdrywt	1.5	2.0	EPA 8260	08/29/95	TG	
Carbon tetrachloride	<8.	µg/kgdrywt	1.5	5.0	EPA 8260	08/29/95	TG	
Bromodichloromethane	<8.	µg/kgdrywt	1.5	5.0	EPA 8260	08/29/95	TG	
1,2-Dichloropropane	<4.	µg/kgdrywt	1.5	2.5	EPA 8260	08/29/95	TG	
cis-1,3-Dichloropropene	<8.	µg/kgdrywt	1.5	5.0	EPA 8260	08/29/95	TG	
Trichloroethene	J1	µg/kgdrywt	1.5	2.5	EPA 8260	08/29/95	TG	
Dibromochloromethane	<8.	µg/kgdrywt	1.5	5.0	EPA 8260	08/29/95	TG	
1,1,2-Trichloroethane	<8.	µg/kgdrywt	1.5	5.0	EPA 8260	08/29/95	TG	
Benzene	<3.	µg/kgdrywt	1.5	2.0	EPA 8260	08/29/95	TG	
trans-1,3-Dichloropropene	<8.	µg/kgdrywt	1.5	5.0	EPA 8260	08/29/95	TG	
Bromoform	<8.	µg/kgdrywt	1.5	5.0	EPA 8260	08/29/95	TG	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

09/19/95

LJO/jcbeaw/gbp(dw)/kwh
LH29VLS1

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1267-8
Report Date: 09/19/95
PO No. : 802LSCA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SD001	Solid	K. RUSCZYK	08/16/95	08/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
4-Methyl-2-pentanone	<5.	µg/kgdrywt	1.5	3.0	EPA 8260	08/29/95	TG	
2-Hexanone	<6.	µg/kgdrywt	1.5	4.0	EPA 8260	08/29/95	TG	
Tetrachloroethene	B4	µg/kgdrywt	1.5	2.0	EPA 8260	08/29/95	TG	
1,1,2,2-Tetrachloroethane	J1	µg/kgdrywt	1.5	5.0	EPA 8260	08/29/95	TG	
Toluene	JB1	µg/kgdrywt	1.5	2.0	EPA 8260	08/29/95	TG	
Chlorobenzene	<8.	µg/kgdrywt	1.5	5.0	EPA 8260	08/29/95	TG	
Ethylbenzene	<3.	µg/kgdrywt	1.5	2.0	EPA 8260	08/29/95	TG	
Styrene	<3.	µg/kgdrywt	1.5	2.0	EPA 8260	08/29/95	TG	
Total Xylenes	<3.	µg/kgdrywt	1.5	2.0	EPA 8260	08/29/95	TG	
Dibromofluoromethane (Surr.)	107.	%	1.5		EPA 8260	08/29/95	TG	
Toluene-d8 (Surr.)	86.	%	1.5		EPA 8260	08/29/95	TG	
p-Bromofluorobenzene (Surr.)	64$	%	1.5		EPA 8260	08/29/95	TG	
1,2-Dichlorobenzene	<3.	µg/kgdrywt	1.5	2.0	EPA 8260	08/29/95	TG	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

09/19/95

LJO/jcbeaw/gbp(dw)/kwh
LH29VLS1

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1267-8
Report Date: 09/19/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9SD001	Solid	K. RUSCZYK	08/16/95	08/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
1,3-Dichlorobenzene	<3.	µg/kgdrywt	1.5	2.0	EPA 8260	08/29/95	TG	
1,4-Dichlorobenzene	<3.	µg/kgdrywt	1.5	2.0	EPA 8260	08/29/95	TG	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

09/19/95

LJO/jcbeaw/gbp (dw) /kwh
LH29VLS1

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1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
S9SD001RE

Lab Name: PACE, ME Contract: _____

Project No.: _____ Site: _____ Location: _____ Group: _____

Matrix: (soil/water) SOIL Lab Sample ID: WL1267-8RE

Sample wt/vol: 5.0 (g/mL) g Lab File ID: F2801.D

Level: (low/med) LOW Date Received: 8/17/95

% Moisture: not dec. 33 Date Analyzed: 8/29/95

GC Column: RTX-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 10 Concentration Units: (ug/L or ug/Kg) ug/kg

CAS Number	Compound Name	RT	Est. Conc.	Q
1.	Hydrocarbon	26.34	14	J
2.	Hydrocarbon	27.20	13	J
3.	Alkane	27.46	25	J
4.	Alkane	27.66	16	J
5.	Unknown	28.09	13	J
6.	Alkane	28.34	17	J
7.	Hydrocarbon	28.62	15	J
8.	Alkane	28.73	53	J
9.	Unknown	28.91	26	J
10.	Unknown	29.33	14	J
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1185-2
Report Date: 08/29/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S1QD001	Aqueous	B. ANDERSEN	08/03/95	08/04/95

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	08/04/95	DW	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	08/04/95	DW	
Vinyl chloride	<2.	µg/L	1.0	2.0	EPA 8260	08/04/95	DW	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	08/04/95	DW	
Methylene chloride	B6	µg/L	1.0	3.0	EPA 8260	08/04/95	DW	
Acetone	<5.	µg/L	1.0	5.0	EPA 8260	08/04/95	DW	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	08/04/95	DW	
1,1-Dichloroethene	<1.	µg/L	1.0	1.0	EPA 8260	08/04/95	DW	
1,1-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	08/04/95	DW	
Total 1,2-Dichloroethene	<2.	µg/L	1.0	2.0	EPA 8260	08/04/95	DW	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	08/04/95	DW	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	08/04/95	DW	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	08/04/95	DW	
1,1,1-Trichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	08/04/95	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.

08/29/95

LJO/jcbeaw/kwh/spg(dw)/sxa
LHD4VLW1

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1185-2
Report Date: 08/29/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S1QD001	Aqueous	B. ANDERSEN	08/03/95	08/04/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	08/04/95	DW	
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	08/04/95	DW	
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	08/04/95	DW	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	08/04/95	DW	
Trichloroethene	<2.5	µg/L	1.0	2.5	EPA 8260	08/04/95	DW	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	08/04/95	DW	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	08/04/95	DW	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	08/04/95	DW	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	08/04/95	DW	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	08/04/95	DW	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	08/04/95	DW	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	08/04/95	DW	
Tetrachloroethene	<2.	µg/L	1.0	2.0	EPA 8260	08/04/95	DW	
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	08/04/95	DW	
Toluene	<2.	µg/L	1.0	2.0	EPA 8260	08/04/95	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.

08/29/95

LJO/jcbeaw/kah/spg(dw)/sra
LH04VLW1

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pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1185-2
Report Date: 08/29/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S1QD001	Aqueous	B. ANDERSEN	08/03/95	08/04/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	08/04/95	DW	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	08/04/95	DW	
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	08/04/95	DW	
Total Xylenes	J1	µg/L	1.0	2.0	EPA 8260	08/04/95	DW	
Dibromofluoromethane (Surr.)	100.	%	1.0		EPA 8260	08/04/95	DW	
Toluene-d8 (Surr.)	101.	%	1.0		EPA 8260	08/04/95	DW	
p-Bromofluorobenzene (Surr.)	98.	%	1.0		EPA 8260	08/04/95	DW	
1,2-Dichlorobenzene	<2.	µg/L	1.0	2.0	EPA 8260	08/04/95	DW	
1,3-Dichlorobenzene	<2.	µg/L	1.0	2.0	EPA 8260	08/04/95	DW	
1,4-Dichlorobenzene	<2.	µg/L	1.0	2.0	EPA 8260	08/04/95	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.

08/29/95

LJO/jcbeaw/kwh/spg(dw)/sra
IH04VLW1

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1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
S1QD001

Lab Name: PACE, ME Contract: _____

Project No.: _____ Site: _____ Location: _____ SDG: S1SW001

Matrix: (soil/water) WATER Lab Sample ID: WL1185-2

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: Y0594

Level: (low/med) LOW Date Received: 8/4/95

% Moisture: not dec. _____ Date Analyzed: 8/4/95

GC Column: RTX-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs 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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28.				
29.				
30.				

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1267-9
Report Date: 09/19/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9QS004	Aqueous	K. RUSCZYK	08/16/95	08/17/95

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	08/18/95	DW	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	08/18/95	DW	
Vinyl chloride	<2.	µg/L	1.0	2.0	EPA 8260	08/18/95	DW	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	08/18/95	DW	
Methylene chloride	B7	µg/L	1.0	3.0	EPA 8260	08/18/95	DW	
Acetone	JB4	µg/L	1.0	5.0	EPA 8260	08/18/95	DW	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	08/18/95	DW	
1,1-Dichloroethene	<1.	µg/L	1.0	1.0	EPA 8260	08/18/95	DW	
1,1-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	08/18/95	DW	
Total 1,2-Dichloroethene	<2.	µg/L	1.0	2.0	EPA 8260	08/18/95	DW	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	08/18/95	DW	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	08/18/95	DW	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	08/18/95	DW	
1,1,1-Trichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	08/18/95	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.

09/19/95

LJO/jcbgbp(dw)/kwh/sra/tjg
LH18VLW1

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1267-9
Report Date: 09/19/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9QS004	Aqueous	K. ROSCZYK	08/16/95	08/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	08/18/95	DW	
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	08/18/95	DW	
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	08/18/95	DW	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	08/18/95	DW	
Trichloroethene	<2.5	µg/L	1.0	2.5	EPA 8260	08/18/95	DW	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	08/18/95	DW	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	08/18/95	DW	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	08/18/95	DW	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	08/18/95	DW	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	08/18/95	DW	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	08/18/95	DW	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	08/18/95	DW	
Tetrachloroethene	<2.	µg/L	1.0	2.0	EPA 8260	08/18/95	DW	
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	08/18/95	DW	
Toluene	J1.	µg/L	1.0	2.0	EPA 8260	08/18/95	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.

09/19/95

LJO/jcbgbp(dw)/kwh/sra/tjg
LH18VLW1

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1267-9
Report Date: 09/19/95
PO No. : 802LSQA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9QS004	Aqueous	K. RUSCZ:K	08/16/95	08/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	08/18/95	DW	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	08/18/95	DW	
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	08/18/95	DW	
Total Xylenes	<2.	µg/L	1.0	2.0	EPA 8260	08/18/95	DW	
Dibromofluoromethane (Surr.)	116.	%	1.0		EPA 8260	08/18/95	DW	
Toluene-d8 (Surr.)	98.	%	1.0		EPA 8260	08/18/95	DW	
p-Bromofluorobenzene (Surr.)	92.	%	1.0		EPA 8260	08/18/95	DW	
1,2-Dichlorobenzene	<2.	µg/L	1.0	2.0	EPA 8260	08/18/95	DW	
1,3-Dichlorobenzene	<2.	µg/L	1.0	2.0	EPA 8260	08/18/95	DW	
1,4-Dichlorobenzene	<2.	µg/L	1.0	2.0	EPA 8260	08/18/95	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.

09/19/95

LJO/jcbgbp(dw)/kwh/sra/tjg
LH18VLW1

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
S9QS004

Lab Name: PACE, ME Contract: _____

Project No.: _____ Site: _____ Location: _____ Group: _____

Matrix: (soil/water) WATER Lab Sample ID: WL1267-9

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: F2601.D

Level: (low/med) LOW Date Received: 8/17/95

% Moisture: not dec. _____ Date Analyzed: 8/18/95

GC Column: RTX-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 1

Concentration Units: (ug/L or ug/Kg) ug/L

CAS Number	Compound Name	RT	Est. Conc.	Q
1. 75-69-4	Trichloromonofluoromethane	4.76	6	JN
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pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1267-9
Report Date: 09/19/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9QS004	Aqueous	K. RUSCZYK	08/16/95	08/17/95

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	08/31/95	JC	
bis(2-Chloroethyl)ether	<10.	µg/L	1.0	10	EPA 8270	08/31/95	JC	
2-Chlorophenol	<10.	µg/L	1.0	10	EPA 8270	08/31/95	JC	
1,3-Dichlorobenzene	<10.	µg/L	1.0	10	EPA 8270	08/31/95	JC	
1,4-Dichlorobenzene	<10.	µg/L	1.0	10	EPA 8270	08/31/95	JC	
1,2-Dichlorobenzene	<10.	µg/L	1.0	10	EPA 8270	08/31/95	JC	
2-Methylphenol	<10.	µg/L	1.0	10	EPA 8270	08/31/95	JC	
bis(2-Chloroisopropyl) ether	<10.	µg/L	1.0	10	EPA 8270	08/31/95	JC	
4-Methylphenol	<10.	µg/L	1.0	10	EPA 8270	08/31/95	JC	
n-Nitroso-dipropylamine	<10.	µg/L	1.0	10	EPA 8270	08/31/95	JC	
Hexachloroethane	<10.	µg/L	1.0	10	EPA 8270	08/31/95	JC	
Nitrobenzene	<10.	µg/L	1.0	10	EPA 8270	08/31/95	JC	
Isophorone	<10.	µg/L	1.0	10	EPA 8270	08/31/95	JC	
2-Nitrophenol	<10.	µg/L	1.0	10	EPA 8270	08/31/95	JC	

* PQL (Practical 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 08/21/95 by VCM using EPA 3520
(2) "J" flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.

09/19/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1267-9
Report Date: 09/19/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9QS004	Aqueous	K. RUSCZYK	08/16/95	08/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
2,4-Dimethylphenol	<10.	µg/L	1.0	10	EPA 8270	08/31/95	JC	
bis(2-Chloroethoxy)methane	<10.	µg/L	1.0	10	EPA 8270	08/31/95	JC	
2,4-Dichlorophenol	<10.	µg/L	1.0	10	EPA 8270	08/31/95	JC	
1,2,4-Trichlorobenzene	<10.	µg/L	1.0	10	EPA 8270	08/31/95	JC	
Naphthalene	<10.	µg/L	1.0	10	EPA 8270	08/31/95	JC	
4-Chloroaniline	<10.	µg/L	1.0	10	EPA 8270	08/31/95	JC	
Hexachlorobutadiene	<10.	µg/L	1.0	10	EPA 8270	08/31/95	JC	
4-Chloro-3-methylphenol	<10.	µg/L	1.0	10	EPA 8270	08/31/95	JC	
2-Methylnaphthalene	<10.	µg/L	1.0	10	EPA 8270	08/31/95	JC	
Hexachlorocyclopentadiene	<10.	µg/L	1.0	10	EPA 8270	08/31/95	JC	
2,4,6-Trichlorophenol	<10.	µg/L	1.0	10	EPA 8270	08/31/95	JC	
2,4,5-Trichlorophenol	<25.	µg/L	1.0	25	EPA 8270	08/31/95	JC	
2-Chloronaphthalene	<10.	µg/L	1.0	10	EPA 8270	08/31/95	JC	
2-Nitroaniline	<25.	µg/L	1.0	25	EPA 8270	08/31/95	JC	
Dimethylphthalate	<10.	µg/L	1.0	10	EPA 8270	08/31/95	JC	

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09/19/95

LJO/jcbgjp(dw)/jfg/kwh/mam/sra
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TEL: 207-874-2400

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1267-9
Report Date: 09/19/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9QS004	Aqueous	K. RUSCZYK	08/16/95	08/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Acenaphthylene	<10.	µg/L	1.0	10	EPA 8270	08/31/95	JC	
2,6-Dinitrotoluene	<10.	µg/L	1.0	10	EPA 8270	08/31/95	JC	
3-Nitroaniline	<25.	µg/L	1.0	25	EPA 8270	08/31/95	JC	
Acenaphthene	<10.	µg/L	1.0	10	EPA 8270	08/31/95	JC	
2,4-Dinitrophenol	<25.	µg/L	1.0	25	EPA 8270	08/31/95	JC	
4-Nitrophenol	<25.	µg/L	1.0	25	EPA 8270	08/31/95	JC	
Dibenzofuran	<10.	µg/L	1.0	10	EPA 8270	08/31/95	JC	
2,4-Dinitrotoluene	<10.	µg/L	1.0	10	EPA 8270	08/31/95	JC	
Diethylphthalate	<10.	µg/L	1.0	10	EPA 8270	08/31/95	JC	
4-Chlorophenyl phenyl ether	<10.	µg/L	1.0	10	EPA 8270	08/31/95	JC	
Fluorene	<10.	µg/L	1.0	10	EPA 8270	08/31/95	JC	
4-Nitroaniline	<25.	µg/L	1.0	25	EPA 8270	08/31/95	JC	
4,6-Dinitro-2-methylphenol	<25.	µg/L	1.0	25	EPA 8270	08/31/95	JC	
n-Nitrosodiphenylamine	<10.	µg/L	1.0	10	EPA 8270	08/31/95	JC	
4-Bromophenyl phenyl ether	<10.	µg/L	1.0	10	EPA 8270	08/31/95	JC	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

09/19/95

LJO/jcbgbp(dw)/jfg/kwh/mam/sra
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1267-9
Report Date: 09/19/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9QS004	Aqueous	K. RUSCZYK	08/16/95	08/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Hexachlorobenzene	<10.	µg/L	1.0	10	EPA 8270	08/31/95	JC	
Pentachlorophenol	<25.	µg/L	1.0	25	EPA 8270	08/31/95	JC	
Phenanthrene	<10.	µg/L	1.0	10	EPA 8270	08/31/95	JC	
Anthracene	<10.	µg/L	1.0	10	EPA 8270	08/31/95	JC	
Carbazole	<10.	µg/L	1.0	10	EPA 8270	08/31/95	JC	
Di-n-butylphthalate	<10.	µg/L	1.0	10	EPA 8270	08/31/95	JC	
Fluoranthene	<10.	µg/L	1.0	10	EPA 8270	08/31/95	JC	
Pyrene	<10.	µg/L	1.0	10	EPA 8270	08/31/95	JC	
Butyl benzylphthalate	<10.	µg/L	1.0	10	EPA 8270	08/31/95	JC	
3,3'-Dichlorobenzidine	<10.	µg/L	1.0	10	EPA 8270	08/31/95	JC	
Benzo(a)anthracene	<10.	µg/L	1.0	10	EPA 8270	08/31/95	JC	
Chrysene	<10.	µg/L	1.0	10	EPA 8270	08/31/95	JC	
bis(2-Ethylhexyl)phthalate	J3	µg/L	1.0	10	EPA 8270	08/31/95	JC	
Di-n-octylphthalate	<10.	µg/L	1.0	10	EPA 8270	08/31/95	JC	
Benzo(b)fluoranthene	<10.	µg/L	1.0	10	EPA 8270	08/31/95	JC	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

09/19/95

LJO/jcbgbp(dw)/jfg/kwh/mam/sra
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TEL: 207-874-2400
FAX: 207-775-4029

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1267-9
Report Date: 09/19/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9QS004	Aqueous	K. RUSCZYK	08/16/95	08/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Benzo(k)fluoranthene	<10.	µg/L	1.0	10	EPA 8270	08/31/95	JC	
Benzo(a)pyrene	<10.	µg/L	1.0	10	EPA 8270	08/31/95	JC	
Indeno(1,2,3-cd)pyrene	<10.	µg/L	1.0	10	EPA 8270	08/31/95	JC	
Dibenzo(a,h)anthracene	<10.	µg/L	1.0	10	EPA 8270	08/31/95	JC	
Benzo(g,h,i)perylene	<10.	µg/L	1.0	10	EPA 8270	08/31/95	JC	
2-Fluorophenol(Surr.)	71.	%	1.0		EPA 8270	08/31/95	JC	
Phenol-d5(Surr.)	79.	%	1.0		EPA 8270	08/31/95	JC	
Nitrobenzene-d5(Surr.)	78.	%	1.0		EPA 8270	08/31/95	JC	
2-Fluorobiphenyl(Surr.)	81.	%	1.0		EPA 8270	08/31/95	JC	
2,4,6-Tribromophenol(Surr.)	84.	%	1.0		EPA 8270	08/31/95	JC	
Terphenyl-d14(Surr.)	86.	%	1.0		EPA 8270	08/31/95	JC	

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09/19/95

LJO/jcbgbp(dw)/jfg/kwh/mam/sra
LH21W1

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1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

S9QS004

Lab Name: PACE - NE Contract: _____

Lab Code: MAINE Case No: _____ SAS No.: _____ SDG No.: S9SD001

Matrix: (soil/water) WATER Lab Sample ID: WL1267-9

Sample wt/vol: 1000 (g/mL) mL Lab File ID: Z8283

Level: (low/med) LOW Date Received: 8/17/95

% Moisture: not dec. N/A Date Extracted: 8/21/95

Concentrated Extract Volume 1000 (ul) Date Analyzed: 8/31/95

Injection Volume 1.0 (ul) Dilution Factor: 1.0

GPC Cleanup: N (Y/N)

pH: N/A Concentration Units (ug/L or ug/Kg) ug/L

Number TICs found: 1

CAS Number	Compound Name	RT	Est. Conc.	Q
1. 123422	2-Pentanone, 4-hydroxy-4-methyl-	4.23	5	JNA
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pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1270-2
Report Date: 09/06/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9QT010	Aqueous	K. RUSCZYK	08/16/95	08/17/95

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	08/22/95	DW	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
Vinyl chloride	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
Methylene chloride	B5	µg/L	1.0	3.0	EPA 8260	08/22/95	DW	
Acetone	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
1,1-Dichloroethene	<1.	µg/L	1.0	1.0	EPA 8260	08/22/95	DW	
1,1-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
Total 1,2-Dichloroethene	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
1,2-Dichloroethane	J1	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
1,1,1-Trichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	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.

09/06/95

LJO/jcbgbp(dw)/kwh/sra
LH22VLW1

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1270-2
Report Date: 09/06/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9QT010	Aqueous	K. RUSCZYK	08/16/95	08/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	08/22/95	DW	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
Trichloroethene	<2.5	µg/L	1.0	2.5	EPA 8260	08/22/95	DW	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	08/22/95	DW	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	08/22/95	DW	
Tetrachloroethene	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
Toluene	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	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.

09/06/95

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IH22VLW1

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Westbrook, ME 04098
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

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EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9QT010	Aqueous	K. RUSCZYK	08/16/95	08/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
Total Xylenes	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
Dibromofluoromethane (Surr.)	108.	%	1.0		EPA 8260	08/22/95	DW	
Toluene-d8 (Surr.)	97.	%	1.0		EPA 8260	08/22/95	DW	
p-Bromofluorobenzene (Surr.)	97.	%	1.0		EPA 8260	08/22/95	DW	
1,2-Dichlorobenzene	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
1,3-Dichlorobenzene	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
1,4-Dichlorobenzene	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	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.

09/06/95

LJO/jcbgtp(dw)/kwh/sza
LH22VLW1

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

S9QT010

Lab Name: PACE, ME Contract: _____

Project No.: EA Site: _____ Location: _____ SDG: S9LT001

Matrix: (soil/water) WATER Lab Sample ID: WL1270-2

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: F2673.D

Level: (low/med) LOW Date Received: 8/17/95

% Moisture: not dec. _____ Date Analyzed: 8/22/95

GC Column: RTX-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Concentration Units:

Number TICs found: 0 (ug/L or ug/Kg) ug/L

CAS Number	Compound Name	RT	Est. Conc.	Q
1.				
2.				
3.				
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29.				
30.				

TAL LABORATORIES

A Engineering
d Gurnet Road
wick, Me 04011-5000
27) 798-5977

CHAIN-OF-CUSTODY RECORD
Analytical Request

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

Pace Client No.
Pace Project Manager
Pace Project No. 41262
*Requested Due Date:

INT): n Ruszczyk 08/16/95
re n Ruszczyk Date Sampled 08/16/95

SAMPLE DESCRIPTION	TIME	MATRIX	PACE NO	NO. OF CONTAINERS	PRESERVATIVES: UNPRESERVED	H_2SO_4	HNO_3	VOA-HCl	MeOH	ANALYSES REQUEST: SVOC's	VOC's	Tal Skmnts	Cyanide		REMARKS
03-S9-SD001	0855	soil	8	2				X			X			S9S0001	VOA's by
03-S9-SD002 MS/MSD	0950		1	9				X		X	X			S9S0002	8260A, plus
03-S9-SD003	1005		2	3				X		X	X			S9SD003	library search.
03-S9-SD004	1120		3	3				X		X	X			S9SD004	SVOC's by 8270A
03-S9-SD005	1200		4	3				X		X	X			S9SD005	Plus library Search
03-S9-SD006	1250		5	3				X		X	X			S9SD006	Metals - refer to
03-S9-LT001 (MS)	1340	soil	7	6		X	X	X		X	X	X	X	S9LT001	Table 7-1 in QAPP
03-S9-SDXD1		soil	6	3				X		X	X			S9SDXD1	

8/08/1995

ROS.	BAILERS	SHIPMENT METHOD OUT DATE	RETURNED DATE

ITEM NUMBER	RELINQUISHED BY / AFFILIATION	ACCEPTED BY / AFFILIATION	DATE	TIME
	[illegible] EA 8/17/95 09:10	Shawn Green	08/17/95	0916
	Shawn Green	[illegible]	08/17/95	115

nents
spike on Tal elements for this sample
BN-03-S9-SD001 ~~Complete~~
Page 1 of 2
Not Included-

Cooler Temp 3.4°C

SEE REVERSE SIDE FOR INSTRUCTIONS

ce
L LABORATORIES

CHAIN-OF-CUSTODY RECORD
Analytical Request

- Engineering
l Gurnet Road
wick, ME 04011-5000
7-798-5977

Report To: Mike Battle
Bill To: EA-Newburgh
P.O. # / Billing Reference BNAS-276000 47.2000
Project Name / No.

Pace Client No.
Pace Project Manager
Pace Project No. 6L 12677
*Requested Due Date:

n: Gary 8-16-95
Date Sampled

SAMPLE DESCRIPTION	TIME	MATRIX	PACE NO.	NO. OF CONTAINERS	UNPRESERVED	H_2SO_4	HNO_3	VOA			ANALYSES REQUEST: Voa	SVOC's		REMARKS
3-59-95004	1455	aq	9	4		X		X			X X	S9Q5004		Voa's by 8260 plus library search
														SVOC's by 8270A plus library search

08/17/95

S.	BAILERS	SHIPMENT METHOD OUT DATE	RETURNED DATE	ITEM NUMBER	RELINQUISHED BY / AFFILIATION	ACCEPTED BY / AFFILIATION	DATE	TIME
					Craig Corbett EA 1010 8/17/95	Shawn Green	08/17/95	1010
					Shawn Green	[illegible]	08/17/95	1115

ents
npletes SOG-BN-03-59-SD001
e 2 of 2

SEE REVERSE SIDE FOR INSTRUCTIONS

Appendix E.4

Leachate Seep and Sediment Samples
Site 9

APPENDIX E-4

SAMPLE KEY - SITE 9
NAVAL AIR STATION, BRUNSWICK, MAINE

Sample Designation	Sample Station
Leachate Seep and Sediment	
S9-LT001	LT-901 (SED)
S9-LT001	LT-901 (SEEP)

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1270-1
Report Date: 09/06/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9LT001	Aqueous	K. RUSCZYK	08/16/95	08/17/95

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	08/21/95	DW	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	08/21/95	DW	
Vinyl chloride	<2.	µg/L	1.0	2.0	EPA 8260	08/21/95	DW	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	08/21/95	DW	
Methylene chloride	6.	µg/L	1.0	3.0	EPA 8260	08/21/95	DW	
Acetone	JB2	µg/L	1.0	5.0	EPA 8260	08/21/95	DW	
Carbon disulfide	J2	µg/L	1.0	5.0	EPA 8260	08/21/95	DW	
1,1-Dichloroethene	J1	µg/L	1.0	1.0	EPA 8260	08/21/95	DW	
1,1-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	08/21/95	DW	
Total 1,2-Dichloroethene	<2.	µg/L	1.0	2.0	EPA 8260	08/21/95	DW	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	08/21/95	DW	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	08/21/95	DW	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	08/21/95	DW	
1,1,1-Trichloroethane	3.	µg/L	1.0	2.0	EPA 8260	08/21/95	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.

09/06/95

LJO/jcbgbp (dw) /kwh/sra
LH21VLW1

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-1270-1
Report Date: 09/06/95
PO No. : 802LSOA

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9LT001	Aqueous	K. RUSCZYK	08/16/95	08/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	08/21/95	DW	
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	08/21/95	DW	
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	08/21/95	DW	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	08/21/95	DW	
Trichloroethene	J1	µg/L	1.0	2.5	EPA 8260	08/21/95	DW	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	08/21/95	DW	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	08/21/95	DW	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	08/21/95	DW	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	08/21/95	DW	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	08/21/95	DW	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	08/21/95	DW	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	08/21/95	DW	
Tetrachloroethene	J1	µg/L	1.0	2.0	EPA 8260	08/21/95	DW	
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	08/21/95	DW	
Toluene	<2.	µg/L	1.0	2.0	EPA 8260	08/21/95	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.

09/06/95

LJO/jcbgbp(dw)/kwh/sra
LH21VLW1

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1270-1
Report Date: 09/06/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9LT001	Aqueous	K. RUSCZYK	08/16/95	08/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	08/21/95	DW	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	08/21/95	DW	
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	08/21/95	DW	
Total Xylenes	<2.	µg/L	1.0	2.0	EPA 8260	08/21/95	DW	
Dibromofluoromethane (Surr.)	117.	%	1.0		EPA 8260	08/21/95	DW	
Toluene-d8 (Surr.)	100.	%	1.0		EPA 8260	08/21/95	DW	
p-Bromofluorobenzene (Surr.)	99.	%	1.0		EPA 8260	08/21/95	DW	
1,2-Dichlorobenzene	<2.	µg/L	1.0	2.0	EPA 8260	08/21/95	DW	
1,3-Dichlorobenzene	<2.	µg/L	1.0	2.0	EPA 8260	08/21/95	DW	
1,4-Dichlorobenzene	<2.	µg/L	1.0	2.0	EPA 8260	08/21/95	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.

09/06/95

LJO/jcbgbp(dw)/kwh/sra
LH21VLW1

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
S9LT001

Lab Name: PACE, ME Contract:

Project No.: EA Site: Location: SDG: S9LT001

Matrix: (soil/water) WATER Lab Sample ID: WL1270-1

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: F2628.D

Level: (low/med) LOW Date Received: 8/17/95

% Moisture: not dec. Date Analyzed: 8/21/95

GC Column: RTX-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Concentration Units:
(ug/L or ug/Kg) ug/L

Number TICs found: 0

CAS Number	Compound Name	RT	Est. Conc.	Q
1.				
2.				
3.				
4.				
5.				
6.				
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28.				
29.				
30.				

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

S9LT001

Lab Name: PACE_ME Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: S9LT00

Matrix (soil/water): WATER Lab Sample ID: WL1270-1

Level (low/med): LOW Date Received: 08/17/95

% 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	526			P
7440-36-0	Antimony	2.6	U		P
7440-38-2	Arsenic	2.8	U		P
7440-39-3	Barium	51.8	B		P
7440-41-7	Beryllium	0.12	U		P
7440-43-9	Cadmium	3.0	U		P
7440-70-2	Calcium	24600			P
7440-47-3	Chromium	1.4	B		P
7440-48-4	Cobalt	0.61	U		P
7440-50-8	Copper	3.4	B		P
7439-89-6	Iron	21700			P
7439-92-1	Lead	13.2			P
7439-95-4	Magnesium	2610	B		P
7439-96-5	Manganese	292			P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	1.4	B		P
7440-09-7	Potassium	3360	B		P
7782-49-2	Selenium	3.7	U		P
7440-22-4	Silver	0.67	U		P
7440-23-5	Sodium	42600			P
7440-28-0	Thallium	5.5	U		P
7440-62-2	Vanadium	3.4	B		P
7440-66-6	Zinc	28.4			P
5712-5	Cyanide	2.6	U	N	C

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1267-7
Report Date: 09/19/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9LIT001	Solid	K. RUSCZYK	08/16/95	08/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Volatile Organics by EPA 8260								1,2,3,4
Reanalysis								
Chloromethane	<7.	µg/kgdrywt	1.3	5.0	EPA 8260	08/29/95	TG	
Bromomethane	<7.	µg/kgdrywt	1.3	5.0	EPA 8260	08/29/95	TG	
Vinyl chloride	<3.	µg/kgdrywt	1.3	2.0	EPA 8260	08/29/95	TG	
Chloroethane	<3.	µg/kgdrywt	1.3	2.0	EPA 8260	08/29/95	TG	
Methylene chloride	B10	µg/kgdrywt	1.3	3.0	EPA 8260	08/29/95	TG	
Acetone	JB6	µg/kgdrywt	1.3	5.0	EPA 8260	08/29/95	TG	
Carbon disulfide	<7.	µg/kgdrywt	1.3	5.0	EPA 8260	08/29/95	TG	
1,1-Dichloroethene	<1.	µg/kgdrywt	1.3	1.0	EPA 8260	08/29/95	TG	
1,1-Dichloroethane	<3.	µg/kgdrywt	1.3	2.0	EPA 8260	08/29/95	TG	
Total 1,2-Dichloroethene	<3.	µg/kgdrywt	1.3	2.0	EPA 8260	08/29/95	TG	
Chloroform	<7.	µg/kgdrywt	1.3	5.0	EPA 8260	08/29/95	TG	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

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

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

(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.

09/19/95

LJO/jcbeaw/gbp(dw)/kwh/sra
LH29VLS1

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1267-7
Report Date: 09/19/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9LT001	Solid	K. RUSCZYK	08/16/95	08/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
1,2-Dichloroethane	<3.	µg/kgdrywt	1.3	2.0	EPA 8260	08/29/95	TG	
2-Butanone	JB3	µg/kgdrywt	1.3	5.0	EPA 8260	08/29/95	TG	
1,1,1-Trichloroethane	<3.	µg/kgdrywt	1.3	2.0	EPA 8260	08/29/95	TG	
Carbon tetrachloride	<7.	µg/kgdrywt	1.3	5.0	EPA 8260	08/29/95	TG	
Bromodichloromethane	<7.	µg/kgdrywt	1.3	5.0	EPA 8260	08/29/95	TG	
1,2-Dichloropropane	<3.	µg/kgdrywt	1.3	2.5	EPA 8260	08/29/95	TG	
cis-1,3-Dichloropropene	<7.	µg/kgdrywt	1.3	5.0	EPA 8260	08/29/95	TG	
Trichloroethene	<3.	µg/kgdrywt	1.3	2.5	EPA 8260	08/29/95	TG	
Dibromochloromethane	<7.	µg/kgdrywt	1.3	5.0	EPA 8260	08/29/95	TG	
1,1,2-Trichloroethane	<7.	µg/kgdrywt	1.3	5.0	EPA 8260	08/29/95	TG	
Benzene	<3.	µg/kgdrywt	1.3	2.0	EPA 8260	08/29/95	TG	
trans-1,3-Dichloropropene	<7.	µg/kgdrywt	1.3	5.0	EPA 8260	08/29/95	TG	
Bromoform	<7.	µg/kgdrywt	1.3	5.0	EPA 8260	08/29/95	TG	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

09/19/95

LJO/jcbeaw/gbp(dw)/kwh/sra
LH29VLS1

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1267-7
Report Date: 09/19/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9LTT01	Solid	K. RUSCZYK	08/16/95	08/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
4-Methyl-2-pentanone	<4.	µg/kgdrywt	1.3	3.0	EPA 8260	08/29/95	TG	
2-Hexanone	<5.	µg/kgdrywt	1.3	4.0	EPA 8260	08/29/95	TG	
Tetrachloroethene	JB2	µg/kgdrywt	1.3	2.0	EPA 8260	08/29/95	TG	
1,1,2,2-Tetrachloroethane	<7.	µg/kgdrywt	1.3	5.0	EPA 8260	08/29/95	TG	
Toluene	<3.	µg/kgdrywt	1.3	2.0	EPA 8260	08/29/95	TG	
Chlorobenzene	<7.	µg/kgdrywt	1.3	5.0	EPA 8260	08/29/95	TG	
Ethylbenzene	<3.	µg/kgdrywt	1.3	2.0	EPA 8260	08/29/95	TG	
Styrene	<3.	µg/kgdrywt	1.3	2.0	EPA 8260	08/29/95	TG	
Total Xylenes	<3.	µg/kgdrywt	1.3	2.0	EPA 8260	08/29/95	TG	
Dibromofluoromethane (Surr.)	122$	%	1.3		EPA 8260	08/29/95	TG	
Toluene-d8 (Surr.)	90.	%	1.3		EPA 8260	08/29/95	TG	
p-Bromofluorobenzene (Surr.)	72$	%	1.3		EPA 8260	08/29/95	TG	
1,2-Dichlorobenzene	<3.	µg/kgdrywt	1.3	2.0	EPA 8260	08/29/95	TG	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

09/19/95

LJO/jcbeaw/gbp(dw)/kwh/sra
LH29VLS1

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1267-7
Report Date: 09/19/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9LT001	Solid	K. RUSCZYK	08/16/95	08/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
1,3-Dichlorobenzene	<3.	µg/kgdrywt	1.3	2.0	EPA 8260	08/29/95	TG	
1,4-Dichlorobenzene	<3.	µg/kgdrywt	1.3	2.0	EPA 8260	08/29/95	TG	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

09/19/95

LJO/jcbeaw/gbp (dw) /kwh/sra
LH29VLS1

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

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1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

S9LT001RE

Lab Name: PACE, ME Contract: _____

Project No.: _____ Site: _____ Location: _____ Group: _____

Matrix: (soil/water) SOIL Lab Sample ID: WL1267-7RE

Sample wt/vol: 5.0 (g/mL) g Lab File ID: F2800.D

Level: (low/med) LOW Date Received: 8/17/95

% Moisture: not dec. 25 Date Analyzed: 8/29/95

GC Column: RTX-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 0 Concentration Units: (ug/L or ug/Kg) ug/kg

CAS Number	Compound Name	RT	Est. Conc.	Q
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U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

S9LT001

Lab Name: PACE_ME Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: S9SD00

Matrix (soil/water): SOIL_ Lab Sample ID: WL1267-7

Level (low/med): LOW__ Date Received: 08/17/95

% Solids: _75.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3690			P
7440-36-0	Antimony	0.24	U		P
7440-38-2	Arsenic	2.2			P
7440-39-3	Barium	15.6	B		P
7440-41-7	Beryllium	0.20	B		P
7440-43-9	Cadmium	0.02	U		P
7440-70-2	Calcium	503		N	P
7440-47-3	Chromium	7.4		N	P
7440-48-4	Cobalt	3.2	B		P
7440-50-8	Copper	6.1		N	P
7439-89-6	Iron	6000			P
7439-92-1	Lead	39.3		N	P
7439-95-4	Magnesium	1320		N	P
7439-96-5	Manganese	56.7		N	P
7439-97-6	Mercury	0.06	U		CV
7440-02-0	Nickel	6.9			P
7440-09-7	Potassium	736			P
7782-49-2	Selenium	0.36	U		P
7440-22-4	Silver	0.06	U		P
7440-23-5	Sodium	81.0	B		P
7440-28-0	Thallium	0.52	U		P
7440-62-2	Vanadium	11.1			P
7440-66-6	Zinc	28.3		N	P
5712-5	Cyanide	0.17	U	N	C

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1270-3
Report Date: 09/06/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9QS003	Aqueous	K. RUSCZYK	08/16/95	08/17/95

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	08/22/95	DW	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
Vinyl chloride	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
Methylene chloride	B4	µg/L	1.0	3.0	EPA 8260	08/22/95	DW	
Acetone	JB1	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
1,1-Dichloroethene	<1.	µg/L	1.0	1.0	EPA 8260	08/22/95	DW	
1,1-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
Total 1,2-Dichloroethene	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
2-Butanone	JB1	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
1,1,1-Trichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	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.

09/06/95

LJO/jcbgbp (dw) /kwh/sra
LH22VLW1

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1270-3
Report Date: 09/06/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9QS003	Aqueous	K. ROSCZYK	08/16/95	08/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	08/22/95	DW	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
Trichloroethene	<2.5	µg/L	1.0	2.5	EPA 8260	08/22/95	DW	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	08/22/95	DW	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	08/22/95	DW	
Tetrachloroethene	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
Toluene	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	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.

09/06/95

LJO/jcbgbp(dw)/kwh/sra
IH2ZVIW1

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1270-3
Report Date: 09/06/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9QS003	Aqueous	K. RUSCZYK	08/16/95	08/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
Total Xylenes	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
Dibromofluoromethane (Surr.)	112.	%	1.0		EPA 8260	08/22/95	DW	
Toluene-d8 (Surr.)	98.	%	1.0		EPA 8260	08/22/95	DW	
p-Bromofluorobenzene (Surr.)	99.	%	1.0		EPA 8260	08/22/95	DW	
1,2-Dichlorobenzene	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
1,3-Dichlorobenzene	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
1,4-Dichlorobenzene	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	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

09/06/95

LJO/jcbgbp(dw)/kwh/sra
IH22VLW1

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

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1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

S9QS003

Lab Name: PACE, ME Contract: _____

Project No.: EA Site: _____ Location: _____ SDG: S9LT001

Matrix: (soil/water) WATER Lab Sample ID: WL1270-3

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: F2674.D

Level: (low/med) LOW Date Received: 8/17/95

% Moisture: not dec. _____ Date Analyzed: 8/22/95

GC Column: RTX-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 0 Concentration Units: (ug/L or ug/Kg) ug/L

CAS Number	Compound Name	RT	Est. Conc.	Q
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U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

S9QS003

Lab Name: PACE_ME Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: S9LT00

Matrix (soil/water): WATER Lab Sample ID: WL1270-3

Level (low/med): LOW Date Received: 08/17/95

% 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	14.5	U		P
7440-36-0	Antimony	2.6	U		P
7440-38-2	Arsenic	2.8	U		P
7440-39-3	Barium	1.2	B		P
7440-41-7	Beryllium	0.12	U		P
7440-43-9	Cadmium	3.0	U		P
7440-70-2	Calcium	9.3	U		P
7440-47-3	Chromium	0.54	U		P
7440-48-4	Cobalt	0.61	U		P
7440-50-8	Copper	1.1	U		P
7439-89-6	Iron	44.0	B		P
7439-92-1	Lead	1.6	U		P
7439-95-4	Magnesium	11.0	U		P
7439-96-5	Manganese	1.1	B		P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	1.0	U		P
7440-09-7	Potassium	380	U		P
7782-49-2	Selenium	3.7	U		P
7440-22-4	Silver	0.67	U		P
7440-23-5	Sodium	38.0	U		P
7440-28-0	Thallium	5.5	U		P
7440-62-2	Vanadium	0.48	U		P
7440-66-6	Zinc	19.0	U		P
5712-5	Cyanide	2.6	U	N	C

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1267-9
Report Date: 09/19/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9QS004	Aqueous	K. RUSCZYK	08/16/95	08/17/95

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	08/18/95	DW	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	08/18/95	DW	
Vinyl chloride	<2.	µg/L	1.0	2.0	EPA 8260	08/18/95	DW	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	08/18/95	DW	
Methylene chloride	B7	µg/L	1.0	3.0	EPA 8260	08/18/95	DW	
Acetone	JB4	µg/L	1.0	5.0	EPA 8260	08/18/95	DW	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	08/18/95	DW	
1,1-Dichloroethene	<1.	µg/L	1.0	1.0	EPA 8260	08/18/95	DW	
1,1-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	08/18/95	DW	
Total 1,2-Dichloroethene	<2.	µg/L	1.0	2.0	EPA 8260	08/18/95	DW	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	08/18/95	DW	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	08/18/95	DW	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	08/18/95	DW	
1,1,1-Trichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	08/18/95	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 '<' 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.

09/19/95

LJO/jcbgbp(dw)/kwh/sra/tjg
LH18VLW1

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

Lab Number : WL-1267-9
Report Date: 09/19/95
PO No. : 802LSOA

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9QS004	Aqueous	K. ROSCZYK	08/16/95	08/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	08/18/95	DW	
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	08/18/95	DW	
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	08/18/95	DW	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	08/18/95	DW	
Trichloroethene	<2.5	µg/L	1.0	2.5	EPA 8260	08/18/95	DW	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	08/18/95	DW	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	08/18/95	DW	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	08/18/95	DW	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	08/18/95	DW	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	08/18/95	DW	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	08/18/95	DW	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	08/18/95	DW	
Tetrachloroethene	<2.	µg/L	1.0	2.0	EPA 8260	08/18/95	DW	
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	08/18/95	DW	
Toluene	J1.	µg/L	1.0	2.0	EPA 8260	08/18/95	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.

09/19/95

LJO/jcbgbp(dw)/kwh/sra/tjg
IH18VLW1

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1267-9
Report Date: 09/19/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9QS004	Aqueous	K. RUSCZ K	08/16/95	08/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	08/18/95	DW	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	08/18/95	DW	
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	08/18/95	DW	
Total Xylenes	<2.	µg/L	1.0	2.0	EPA 8260	08/18/95	DW	
Dibromofluoromethane (Surr.)	116.	%	1.0		EPA 8260	08/18/95	DW	
Toluene-d8 (Surr.)	98.	%	1.0		EPA 8260	08/18/95	DW	
p-Bromofluorobenzene (Surr.)	92.	%	1.0		EPA 8260	08/18/95	DW	
1,2-Dichlorobenzene	<2.	µg/L	1.0	2.0	EPA 8260	08/18/95	DW	
1,3-Dichlorobenzene	<2.	µg/L	1.0	2.0	EPA 8260	08/18/95	DW	
1,4-Dichlorobenzene	<2.	µg/L	1.0	2.0	EPA 8260	08/18/95	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.

09/19/95

LJO/jcbgbp (dw) /kwh/sra/tjg
LH18VLW1

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
S9QS004

Lab Name: PACE, ME Contract:

Project No.: Site: Location: Group:

Matrix: (soil/water) WATER Lab Sample ID: WL1267-9

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: F2601.D

Level: (low/med) LOW Date Received: 8/17/95

% Moisture: not dec. Date Analyzed: 8/18/95

GC Column: RTX-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs found: 1 Concentration Units: (ug/L or ug/Kg) ug/L

CAS Number	Compound Name	RT	Est. Conc.	Q
1. 75-69-4	Trichloromonofluoromethane	4.76	6	JN
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pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1267-9
Report Date: 09/19/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9QS004	Aqueous	K. RUSCZYK	08/16/95	08/17/9

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	08/31/95	JC	
bis(2-Chloroethyl)ether	<10.	µg/L	1.0	10	EPA 8270	08/31/95	JC	
2-Chlorophenol	<10.	µg/L	1.0	10	EPA 8270	08/31/95	JC	
1,3-Dichlorobenzene	<10.	µg/L	1.0	10	EPA 8270	08/31/95	JC	
1,4-Dichlorobenzene	<10.	µg/L	1.0	10	EPA 8270	08/31/95	JC	
1,2-Dichlorobenzene	<10.	µg/L	1.0	10	EPA 8270	08/31/95	JC	
2-Methylphenol	<10.	µg/L	1.0	10	EPA 8270	08/31/95	JC	
bis(2-Chloroisopropyl) ether	<10.	µg/L	1.0	10	EPA 8270	08/31/95	JC	
4-Methylphenol	<10.	µg/L	1.0	10	EPA 8270	08/31/95	JC	
n-Nitroso-dipropylamine	<10.	µg/L	1.0	10	EPA 8270	08/31/95	JC	
Hexachloroethane	<10.	µg/L	1.0	10	EPA 8270	08/31/95	JC	
Nitrobenzene	<10.	µg/L	1.0	10	EPA 8270	08/31/95	JC	
Isophorone	<10.	µg/L	1.0	10	EPA 8270	08/31/95	JC	
2-Nitrophenol	<10.	µg/L	1.0	10	EPA 8270	08/31/95	JC	

* PQL (Practical 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 08/21/95 by VCM using EPA 3520
(2) "J" flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.

09/19/95

LJO/jcbgjp(dw)/jfg/kwh/mam/sra
LH21W1

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1267-9
Report Date: 09/19/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9QS004	Aqueous	K. RUSCZYK	08/16/95	08/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
2,4-Dimethylphenol	<10.	µg/L	1.0	10	EPA 8270	08/31/95	JC	
bis(2-Chloroethoxy)methane	<10.	µg/L	1.0	10	EPA 8270	08/31/95	JC	
2,4-Dichlorophenol	<10.	µg/L	1.0	10	EPA 8270	08/31/95	JC	
1,2,4-Trichlorobenzene	<10.	µg/L	1.0	10	EPA 8270	08/31/95	JC	
Naphthalene	<10.	µg/L	1.0	10	EPA 8270	08/31/95	JC	
4-Chloroaniline	<10.	µg/L	1.0	10	EPA 8270	08/31/95	JC	
Hexachlorobutadiene	<10.	µg/L	1.0	10	EPA 8270	08/31/95	JC	
4-Chloro-3-methylphenol	<10.	µg/L	1.0	10	EPA 8270	08/31/95	JC	
2-Methylnaphthalene	<10.	µg/L	1.0	10	EPA 8270	08/31/95	JC	
Hexachlorocyclopentadiene	<10.	µg/L	1.0	10	EPA 8270	08/31/95	JC	
2,4,6-Trichlorophenol	<10.	µg/L	1.0	10	EPA 8270	08/31/95	JC	
2,4,5-Trichlorophenol	<25.	µg/L	1.0	25	EPA 8270	08/31/95	JC	
2-Chloronaphthalene	<10.	µg/L	1.0	10	EPA 8270	08/31/95	JC	
2-Nitroaniline	<25.	µg/L	1.0	25	EPA 8270	08/31/95	JC	
Dimethylphthalate	<10.	µg/L	1.0	10	EPA 8270	08/31/95	JC	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values

09/19/95

LJO/jcbgtp(dw)/jfg/kwh/mam/sra
LH21W1

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1267-9
Report Date: 09/19/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9QS004	Aqueous	K. RUSCZYK	08/16/95	08/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Acenaphthylene	<10.	µg/L	1.0	10	EPA 8270	08/31/95	JC	
2,6-Dinitrotoluene	<10.	µg/L	1.0	10	EPA 8270	08/31/95	JC	
3-Nitroaniline	<25.	µg/L	1.0	25	EPA 8270	08/31/95	JC	
Acenaphthene	<10.	µg/L	1.0	10	EPA 8270	08/31/95	JC	
2,4-Dinitrophenol	<25.	µg/L	1.0	25	EPA 8270	08/31/95	JC	
4-Nitrophenol	<25.	µg/L	1.0	25	EPA 8270	08/31/95	JC	
Dibenzofuran	<10.	µg/L	1.0	10	EPA 8270	08/31/95	JC	
2,4-Dinitrotoluene	<10.	µg/L	1.0	10	EPA 8270	08/31/95	JC	
Diethylphthalate	<10.	µg/L	1.0	10	EPA 8270	08/31/95	JC	
4-Chlorophenyl phenyl ether	<10.	µg/L	1.0	10	EPA 8270	08/31/95	JC	
Fluorene	<10.	µg/L	1.0	10	EPA 8270	08/31/95	JC	
4-Nitroaniline	<25.	µg/L	1.0	25	EPA 8270	08/31/95	JC	
4,6-Dinitro-2-methylphenol	<25.	µg/L	1.0	25	EPA 8270	08/31/95	JC	
n-Nitrosodiphenylamine	<10.	µg/L	1.0	10	EPA 8270	08/31/95	JC	
4-Bromophenyl phenyl ether	<10.	µg/L	1.0	10	EPA 8270	08/31/95	JC	

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09/19/95

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Westbrook, ME 04098
TEL: 207-874-2400
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1267-9
Report Date: 09/19/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9QS004	Aqueous	K. ROSCZYK	08/16/95	08/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Hexachlorobenzene	<10.	µg/L	1.0	10	EPA 8270	08/31/95	JC	
Pentachlorophenol	<25.	µg/L	1.0	25	EPA 8270	08/31/95	JC	
Phenanthrene	<10.	µg/L	1.0	10	EPA 8270	08/31/95	JC	
Anthracene	<10.	µg/L	1.0	10	EPA 8270	08/31/95	JC	
Carbazole	<10.	µg/L	1.0	10	EPA 8270	08/31/95	JC	
Di-n-butylphthalate	<10.	µg/L	1.0	10	EPA 8270	08/31/95	JC	
Fluoranthene	<10.	µg/L	1.0	10	EPA 8270	08/31/95	JC	
Pyrene	<10.	µg/L	1.0	10	EPA 8270	08/31/95	JC	
Butyl benzylphthalate	<10.	µg/L	1.0	10	EPA 8270	08/31/95	JC	
3,3'-Dichlorobenzidine	<10.	µg/L	1.0	10	EPA 8270	08/31/95	JC	
Benzo(a)anthracene	<10.	µg/L	1.0	10	EPA 8270	08/31/95	JC	
Chrysene	<10.	µg/L	1.0	10	EPA 8270	08/31/95	JC	
bis(2-Ethylhexyl)phthalate	J3	µg/L	1.0	10	EPA 8270	08/31/95	JC	
Di-n-octylphthalate	<10.	µg/L	1.0	10	EPA 8270	08/31/95	JC	
Benzo(b)fluoranthene	<10.	µg/L	1.0	10	EPA 8270	08/31/95	JC	

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09/19/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1267-9
Report Date: 09/19/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9QS004	Aqueous	K. RUSCZYK	08/16/95	08/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Benzo(k)fluoranthene	<10.	µg/L	1.0	10	EPA 8270	08/31/95	JC	
Benzo(a)pyrene	<10.	µg/L	1.0	10	EPA 8270	08/31/95	JC	
Indeno(1,2,3-cd)pyrene	<10.	µg/L	1.0	10	EPA 8270	08/31/95	JC	
Dibenzo(a,h)anthracene	<10.	µg/L	1.0	10	EPA 8270	08/31/95	JC	
Benzo(g,h,i)perylene	<10.	µg/L	1.0	10	EPA 8270	08/31/95	JC	
2-Fluorophenol(Surr.)	71.	%	1.0		EPA 8270	08/31/95	JC	
Phenol-d5(Surr.)	79.	%	1.0		EPA 8270	08/31/95	JC	
Nitrobenzene-d5(Surr.)	78.	%	1.0		EPA 8270	08/31/95	JC	
2-Fluorobiphenyl(Surr.)	81.	%	1.0		EPA 8270	08/31/95	JC	
2,4,6-Tribromophenol(Surr.)	84.	%	1.0		EPA 8270	08/31/95	JC	
Terphenyl-d14(Surr.)	86.	%	1.0		EPA 8270	08/31/95	JC	

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09/19/95

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1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

S9QS004

Lab Name: PACE - NE Contract: _____

Lab Code: MAINE Case No: _____ SAS No.: _____ SDG No.: S9SD001

Matrix: (soil/water) WATER Lab Sample ID: WL1267-9

Sample wt/vol: 1000 (g/mL) mL Lab File ID: Z8283

Level: (low/med) LOW Date Received: 8/17/95

% Moisture: not dec. N/A Date Extracted: 8/21/95

Concentrated Extract Volume 1000 (ul) Date Analyzed: 8/31/95

Injection Volume 1.0 (ul) Dilution Factor: 1.0

GPC Cleanup: N (Y/N)

pH: N/A Concentration Units (ug/L or ug/Kg) ug/L

Number TICs found: 1

CAS Number	Compound Name	RT	Est. Conc.	Q
1. 123422	2-Pentanone, 4-hydroxy-4-methyl-	4.23	5	JNA
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pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1270-2
Report Date: 09/06/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9QT010	Aqueous	K. RUSCZYK	08/16/95	08/17/95

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	08/22/95	DW	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
Vinyl chloride	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
Methylene chloride	B5	µg/L	1.0	3.0	EPA 8260	08/22/95	DW	
Acetone	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
1,1-Dichloroethene	<1.	µg/L	1.0	1.0	EPA 8260	08/22/95	DW	
1,1-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
Total 1,2-Dichloroethene	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
1,2-Dichloroethane	J1	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
1,1,1-Trichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	

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(1) "J" flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.
(2) "B" flag denotes detection of this analyte in the laboratory method blank analyzed concurrently with the sample.

09/06/95

LJO/jcbgtp(dw)/kwh/sra
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1270-2
Report Date: 09/06/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9QT010	Aqueous	K. ROSCZYK	08/16/95	08/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	08/22/95	DW	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
Trichloroethene	<2.5	µg/L	1.0	2.5	EPA 8260	08/22/95	DW	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	08/22/95	DW	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	08/22/95	DW	
Tetrachloroethene	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
Toluene	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	

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09/06/95

LJO/jcbgbp(dw)/kwh/sra
LH22VLW1

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1270-2
Report Date: 09/06/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S9QT010	Aqueous	K. RUSCZYK	08/16/95	08/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	08/22/95	DW	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
Total Xylenes	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
Dibromofluoromethane (Surr.)	108.	%	1.0		EPA 8260	08/22/95	DW	
Toluene-d8 (Surr.)	97.	%	1.0		EPA 8260	08/22/95	DW	
p-Bromofluorobenzene (Surr.)	97.	%	1.0		EPA 8260	08/22/95	DW	
1,2-Dichlorobenzene	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
1,3-Dichlorobenzene	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	
1,4-Dichlorobenzene	<2.	µg/L	1.0	2.0	EPA 8260	08/22/95	DW	

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09/06/95

LJO/jcbgbp(dw) /kwh/sra
IH22VLW1

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

S9QT010

Lab Name: PACE, ME Contract:

Project No.: EA Site: Location: SDG: S9LT001

Matrix: (soil/water) WATER Lab Sample ID: WL1270-2

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: F2673.D

Level: (low/med) LOW Date Received: 8/17/95

% Moisture: not dec. Date Analyzed: 8/22/95

GC Column: RTX-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Concentration Units:

Number TICs found: 0 (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-1185-2
Report Date: 08/29/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S1QD001	Aqueous	B. ANDERSEN	08/03/95	08/04/

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Volatile Organics by EPA 8260								2
Chloromethane	<5.	µg/L	1.0	5.0	EPA 8260	08/04/95	DW	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	08/04/95	DW	
Vinyl chloride	<2.	µg/L	1.0	2.0	EPA 8260	08/04/95	DW	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	08/04/95	DW	
Methylene chloride	B6	µg/L	1.0	3.0	EPA 8260	08/04/95	DW	
Acetone	<5.	µg/L	1.0	5.0	EPA 8260	08/04/95	DW	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	08/04/95	DW	
1,1-Dichloroethene	<1.	µg/L	1.0	1.0	EPA 8260	08/04/95	DW	
1,1-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	08/04/95	DW	
Total 1,2-Dichloroethene	<2.	µg/L	1.0	2.0	EPA 8260	08/04/95	DW	
Chloroform	<5.	µg/L	1.0	5.0	EPA 8260	08/04/95	DW	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	08/04/95	DW	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	08/04/95	DW	
1,1,1-Trichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	08/04/95	DW	

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(1) "J" flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.
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08/29/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1185-2
Report Date: 08/29/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED	DATE RECEIVED
S1QD001	Aqueous	B. ANDERSEN	08/03/95	08/04/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	08/04/95	DW	
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	08/04/95	DW	
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	08/04/95	DW	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	08/04/95	DW	
Trichloroethene	<2.5	µg/L	1.0	2.5	EPA 8260	08/04/95	DW	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	08/04/95	DW	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	08/04/95	DW	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	08/04/95	DW	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	08/04/95	DW	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	08/04/95	DW	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	08/04/95	DW	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	08/04/95	DW	
Tetrachloroethene	<2.	µg/L	1.0	2.0	EPA 8260	08/04/95	DW	
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	08/04/95	DW	
Toluene	<2.	µg/L	1.0	2.0	EPA 8260	08/04/95	DW	

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08/29/95

LJO/jcbeaw/kmh/spg(dw)/sra
LHD4VLM1

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FAX: 207-775-4029

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pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1185-2
Report Date: 08/29/95
PO No. : 802LSOA

CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, New York 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S1QD001	Aqueous	B. ANDERSEN	08/03/95	08/04/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	08/04/95	DW	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	08/04/95	DW	
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	08/04/95	DW	
Total Xylenes	J1	µg/L	1.0	2.0	EPA 8260	08/04/95	DW	
Dibromofluoromethane (Surr.)	100.	%	1.0		EPA 8260	08/04/95	DW	
Toluene-d8 (Surr.)	101.	%	1.0		EPA 8260	08/04/95	DW	
p-Bromofluorobenzene (Surr.)	98.	%	1.0		EPA 8260	08/04/95	DW	
1,2-Dichlorobenzene	<2.	µg/L	1.0	2.0	EPA 8260	08/04/95	DW	
1,3-Dichlorobenzene	<2.	µg/L	1.0	2.0	EPA 8260	08/04/95	DW	
1,4-Dichlorobenzene	<2.	µg/L	1.0	2.0	EPA 8260	08/04/95	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.

08/29/95

LJO/jcbeaw/kwh/spg(dw)/sra
IHD4VLW1

P.O. Box 720 - 340 County Road #5
Westbrook, ME 04098
TEL: 207-874-2400
FAX: 207-775-4029

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1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

S1QD001

Lab Name: PACE, ME Contract: _____

Project No.: _____ Site: _____ Location: _____ SDG: S1SW001

Matrix: (soil/water) WATER Lab Sample ID: WL1185-2

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: Y0594

Level: (low/med) LOW Date Received: 8/4/95

% Moisture: not dec. _____ Date Analyzed: 8/4/95

GC Column: RTX-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 0 Concentration Units: (ug/L or ug/Kg) ug/L

CAS Number	Compound Name	RT	Est. Conc.	Q
1.				
2.				
3.				
4.				
5.				
6.				
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23.				
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27.				
28.				
29.				
30.				

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

S1QD001

Lab Name: PACE_ME Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: S1SW00

Matrix (soil/water): WATER Lab Sample ID: WL1185-2

Level (low/med): LOW__ Date Received: 08/04/95

% 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_	14.5	U		P
7440-36-0	Antimony_	2.6	U		P
7440-38-2	Arsenic__	2.8	U		P
7440-39-3	Barium___	0.47	B		P
7440-41-7	Beryllium	0.12	U		P
7440-43-9	Cadmium__	0.24	U		P
7440-70-2	Calcium__	40.0	U		P
7440-47-3	Chromium_	0.54	U		P
7440-48-4	Cobalt___	0.61	U		P
7440-50-8	Copper___	1.1	U		P
7439-89-6	Iron____	14.3	U	N	P
7439-92-1	Lead____	1.6	U		P
7439-95-4	Magnesium	11.0	U		P
7439-96-5	Manganese	0.15	U		P
7439-97-6	Mercury__	0.10	U		CV
7440-02-0	Nickel___	1.0	U		P
7440-09-7	Potassium	380	U		P
7782-49-2	Selenium_	3.7	U		P
7440-22-4	Silver___	0.67	U		P
7440-23-5	Sodium___	38.0	U		P
7440-28-0	Thallium_	5.5	U		P
7440-62-2	Vanadium_	0.48	U		P
7440-66-6	Zinc____	9.7	B		P
5712-5___	Cyanide__	2.6	U	N	C

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

FORM I - IN 3/90

ICE
SEPARATED
TAL LABORATORIES

CHAIN-OF-CUSTODY RECORD
Analytical Request

A Engineering
d Gurnet Road
wick, Me 04011-5000
)7) 798-5977

Report To: Mike Battle/EA
Bill To: EA Newburgh
P.O. # / Billing Reference
Project Name / No. BNAS, 89600.47/7200

Pace Client No.
Pace Project Manager
Pace Project No. 41262
*Requested Due Date:

INT): n Ruszczyk 08/16/95
re n Ruszczyk Date Sampled 08/16/95

SAMPLE DESCRIPTION	TIME	MATRIX	PACE NO.	NO. OF CONTAINERS	PRESERVATIVES: UNPRESERVED	H_2SO_4	HNO_3	VOA-HCl	MeOH	ANALYSES REQUEST: SVOCs	VOCs	Tal Elements	Cyanide		REMARKS
03-S9-SD001	0855	Soil	8	2				X			X			S950001	VOA's by
03-S9-SD002 MS/MSD	0950		1	9				X		X	X			S950002	8260A, plus
03-S9-SD003	1005		2	3				X		X	X			S95D003	library search.
03-S9-SD004	1120		3	3				X		X	X			S95D004	SVOC's by 8270A
03-S9-SD005	1200		4	3				X		X	X			S95D005	Plus library Search
03-S9-SD006	1250		5	3				X		X	X			S95D006	Metals - refer to
03-S9-LT001 (AS)	1340	Soil	7	6			X	X	X	X	X	X	X	S9LT001	Table 7-1 in QAPP
03-S9-SDXD1		Soil	6	3				X		X	X			S95DXD1	

80081795

NOS.	BAILERS	SHIPMENT METHOD OUT DATE	RETURNED DATE

ITEM NUMBER	RELINQUISHED BY / AFFILIATION	ACCEPTED BY / AFFILIATION	DATE	TIME
	[illegible] EA 8/17/95 09:16	Shawn Green	08/17/95	0916
	Shawn Green [illegible]	[illegible]	08/17/95	115

nents
spike on Tal elements for this sample
BN-03-S9-SD001 ~~Complete~~
Page 1 of 2
k Included.

Cooler Temp 3.4°C

SEE REVERSE SIDE FOR INSTRUCTIONS

248091

pace INCORPORATED
VIRONMENTAL LABORATORIES

CHAIN-OF-CUSTODY RECORD
Analytical Request

nt EA Engineering
ress Old Gurnet Road
runswick, Me 04011-5000
ne (207) 798-5977

Report To: Miki Battle / EA
Bill To: EA Newburgh
P.O. # / Billing Reference
Project Name / No. BNAS, 29600.47 / 7200

Pace Client No.
Pace Project Manager
Pace Project No. WR1270
*Requested Due Date:

pled By (PRINT): Karen Ruszczyk 08/16/95
pler Signature: Karen Ruszczyk Date Sampled: 08/16/95

M D.	SAMPLE DESCRIPTION	TIME	MATRIX	PACE NO.	NO. OF CONTAINERS	UNPRESERVED	H_2SO_4	HNO_3	VOA - HCl	NaOH		VOCs	Metals	CN	SVOCs			REMARKS
	BN-03-S9-LT001 ms/msD	1315	Water		10			X	X	X		X	X	X		S9LT001		VOA's by 8260,
	BN-03-S9-QT010	0845	Water		2				X			X				S9QT010		plus library search.
	BN-03-S9-QS003	1450	Water		4			X	X	X		X	X	X		S9QS003		Refer to Table
																		1 in QAPP

COOLER NOS.	BAILERS	SHIPMENT METHOD OUT DATE	RETURNED DATE	ITEM NUMBER	RELINQUISHED BY / AFFILIATION	ACCEPTED BY / AFFILIATION	DATE	TIME
					Cry Cobell EA 8/17/95 0917	Shawn Green	08/17/95	0917
					Shawn Green	[illegible]	08/18/95	1115

itional Comments
is is SDG BN-03-S9-LT001 Complete
P blank included

Cooler Temp: 3.4°C

SEE REVERSE SIDE FOR INSTRUCTIONS

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248063

pace ENVIRONMENTAL LABORATORIES

CHAIN-OF-CUSTODY RECORD
Analytical Request

Client: EA
Address: NAS Brunswick
Old Gurnet Rd. Brunswick ME 04011-5000
Phone: (207) 788-5977

Report To: Mike Battle
Bill To: EA Newburgh
P.O. # / Billing Reference
Project Name / No.: SWAS 29609.47 7200

Pace Client No.
Pace Project Manager
Pace Project No.: WC1185
*Requested Due Date:

Sampled By (PRINT): Brian D. Andersen
Sampler Signature: Brian D. Andersen
Date Sampled: 8/3/95

	ITEM NO	SAMPLE DESCRIPTION	TIME	MATRIX	PACE NO.	NO. OF CONTAINERS	UNPRESERVED	H_2SO_4	HNO_3	VOA-HCL	NaOH		VOCs	TAL Elements	Cyanide			REMARKS
X	1	BN-05-S1-QD001	1145	Water	2	4			X	X	X		X	X	X		S1QD001	VOAs by 8260 plus
X	2	BN-05-S1-QS001	1210	Water	3	4			X	X	X		X	X	X		S1QS001	Library Search
X	3	BN-05-S1-QS002	1200	Water	4	4			X	X	X		X	X	X		S1QS002	TAL Elements +
X	4	BN-05-S1-SW001	1242	Water	5	4			X	X	X		X	X	X		S1SW001	Cyanide refer to
X	5	BN-05-S1-SW002	1345	Water	6	4			X	X	X		X	X	X		S1SW002	Table 1-1 in QAP
X	6	BN-05-S1-SW003 (MS/MSD)	1515	Water	7	10			X	X	X		X	X	X		S1SW003	
X	7	BN-05-S1-SW004	1625	Water	7	4			X	X	X		X	X	X		S1SW004	
X	8	BN-05-S1-SW005	1700	Water	8	4			X	X	X		X	X	X		S1SW005	

COOLER NOS.	BAILERS	SHIPMENT METHOD OUT DATE	RETURNED DATE

ITEM NUMBER	RELINQUISHED BY	AFFILIATION	ACCEPTED BY	AFFILIATION	DATE	TIME
	Guy [illegible]	EA 8/4/95 8:35	Shawn Green		08/04/95	0835
	Shawn Green		[illegible]		08/04/95	1100

Additional Comments
Page 1 of 2 of SDG BN-05-S1-SW001

SDG: S1SW001

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L LABORATORIES

CHAIN-OF-CUSTODY RECORD
Analytical Request

- Engineering
l Gurnet Road
wick, ME 04011-5000
7-725-5977

Report To: Mike Battle
Bill To: Eff-Newburgh
P.O. # / Billing Reference BNAS-27600 47.2000
Project Name / No.

Pace Client No.
Pace Project Manager
Pace Project No. 61 17622
*Requested Due Date:

T): Gary 8-16-95
Date Sampled

SAMPLE DESCRIPTION	TIME	MATRIX	PACE NO.	NO. OF CONTAINERS	PRESERVATIVES: UNPRESERVED	H_2SO_4	HNO_3	VOA			ANALYSES REQUEST: VOA's	SVOC's					REMARKS
3-59-95004	1455	aq	9	4		X		X			X X		S9Q5004				VOA's by 8260 plus library search
				4													SVOC's by 8270A plus library search

BAILERS	SHIPMENT METHOD OUT DATE	RETURNED DATE	ITEM NUMBER	RELINQUISHED BY / AFFILIATION	ACCEPTED BY / AFFILIATION	DATE	TIME
				Gary Corbett EA 1010 8/17/95	Shawn Green	081795	1010
				Shawn Green	[illegible]	081795	1115

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e 2 of 2

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