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- ERP - E
- VCP - V
- BCP - C

RCRA Facility Investigation Report



Sites 3, 10, and 13 Niagara Falls IAP-ARS Niagara Falls, New York

Volume 2: Appendix F

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June 1995
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Prepared for:

UNITED STATES DEPARTMENT OF THE AIR FORCE
Air Force Reserve, 914th Airlift Wing/LGC

**RCRA Facility Investigation Report
Sites 3, 10, and 13
Niagara Falls IAP-ARS
Niagara Falls, New York
Volume 2: Appendix F**

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International Specialists in the Environment

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Analytical Results

DATA REVIEW MEMORANDUM

DATE: June 8, 1995

TO: Mark Schmitt, E & E Project Manager

FROM: J. McMullan, L. Hess, and M. Davis,
E & E Quality Assurance Chemists

SUBJ: Data Review for RCRA Facility Investigation at Site 3,
Niagara Falls International Airport-Air Force Reserve Facility (IAP-ARS)

REF: Project Number: NM9030
ASC Job Number: 9500.340/.353, 9500.385, 9500.562, 9500.597,
9500.614, 9500.647

Project Number: NM8060
ASC Job Number: 9500.646, 9500.611/.629 (Groundwaters from Site 3)

CC: Timothy Grady, E & E Project Director,
Marcia Meredith Galloway, E & E Quality Assurance Officer

For the RCRA Facility Investigation at Site 3, Niagara Falls IAP-ARS, ten groundwater samples, 14 subsurface soils, three surface waters/sediments, and appropriate field quality control (QC) samples were collected by Ecology and Environment, Inc., (E & E) from February 15, 1995 to April 24, 1995. The samples were analyzed for the some/all of the following: volatile organic compounds (VOC), base/neutral/acid extractables (BNA), priority pollutant metals, polychlorinated biphenyls (PCB), total recoverable petroleum hydrocarbons (TRPH), percent organic matter, and polychlorinated dibenzodioxin/polychlorinated dibenzofurans (PCDD/PCDF). In addition to these analyses, total hydrocarbons (THC) were determined as a function of the extracted ion profile for mass/charge (m/z) 57 ion over the entire mass chromatogram for each sample analyzed for VOC and BNA.

All samples except those for PCDD/PCDF analysis were sent to E & E's Analytical Services Center (ASC) for analysis. The samples for PCDD/PCDF analysis were sent to Triangle Laboratories of RTP, Inc. (TLI) for testing.

Data were reviewed for laboratory precision, accuracy, and completeness in accordance with procedures and quality control (QC) limits outlined in the Work Plan for Niagara Falls IAP-ARS, Volume 2; Quality Assurance Project Plan (QAPP). For soil samples, a relative percent difference (RPD) criterion of 35% for laboratory duplicates was used for qualification of sample results based on EPA's National Functional Guidelines for Data Review. For this project, the following were not required in the laboratory report and thus, were not reviewed: tuning/instrument performance, initial and continuing calibration, and raw data for compound identification and quantitation.

Laboratory data qualifiers for compound identification and quantitation were accepted and additional data review qualifiers were added as noted in the following comments. Definitions of all data qualifiers are given at the end of this memorandum. All data are usable for purposes of this project, except that qualified "B". Results flagged "B" are qualified based on associated blank contamination and should be used only as elevated quantitation limits. Results and quantitation limits are considered to be estimated values, when flagged "J" and "UJ", respectively. Potential impacts on data usability are addressed the QA/QC section of the final report.

I. METALS, TRPH, AND PERCENT ORGANIC MATTER ANALYSES

1.0 HOLDING TIMES AND SAMPLE PRESERVATION

Holding times (HT) are established and monitored to ensure analytical results accurately represent analyte concentrations in a sample at the time of collection. Exceeding the HT for a sample generally results in a loss of the analyte due to a variety of mechanisms, such as deposition on the sample container walls or precipitation. Correct preservation of samples by cooling to 4°C and adding acid or base also is monitored.

REVIEW RESULTS:

HT limits:

Metals - Six months (mercury - 28 days for soils, 13 days for waters)

TRPH - 28 days for soils and waters

Organic Matter - 28 days for soils, not applicable for waters

All samples were analyzed within holding time and were preserved correctly, except for the following:

The temperature of the surface waters and sediments from Site 3 was 9°C upon arrival at the laboratory based on the temperature blank. The samples had been properly preserved with sufficient ice in the cooler. It is likely that the temperature blank was still in the cooling process, since travel time between the site and the laboratory is approximately 30 minutes. No data qualification is considered necessary.

2.0 LABORATORY AND FIELD BLANKS

Laboratory and field blank samples are analyzed and evaluated to determine the existence and magnitude of possible contamination from various sources. Positive results above the reported quantitation limit (QL) in laboratory blanks indicate contamination from some phase of the analytical procedure. Similarly, results above the QL in a field blank indicates a possible field contamination problem, either from the sampling equipment or other field sources.

REVIEW RESULTS:

Laboratory and field blanks were analyzed at the required frequency as stated in the QAPP, Tables 10-1 and 5-1, respectively, with the following exceptions:

No rinsates were collected for subsurface soils on March 20 and 21, 1995, except for TRPH analysis on March 21, 1995. Due to a misunderstanding, field personnel thought that the bailer rinsates taken on these dates were sufficient to satisfy the requirement of checking decontamination procedures. However, bailer rinsate analysis can not provide information on any potential problems with the split-spoon decontamination. Therefore, the two split-spoon rinsates from February 15 and 16, 1995 have to be applied to all the subsurface soil samples, not just those sampled at that time.

No laboratory blank contamination was detected above the QL for metals or TRPH. Field blank contamination was detected in the following split-spoon rinsates:

Blank ID	Analyte	Concentration (µg/L)	Associated Samples
MW3-6D-WR	Copper	150	All subsurface soils
	Zinc	15.0	
MW3-IE-WR	Chromium	19.0	All subsurface soils
	Copper	260	
	Nickel	20.0	
	Zinc	49.0	

Positive results up to five times the rinsate level are qualified "B" as undetected in the associated samples due to presence in the field blank. Two split-spoon rinsates were not taken for the subsurface soil samples collected on March 20 and 21, 1995. Thus, the highest level found in the two rinsates noted above were used to qualify all subsurface soils. The rinsate levels in µg/L are converted to mg/kg equivalents by multiplying 0.1 based on the relative sample amounts analyzed.

Copper in all subsurface soil samples and chromium and nickel in SB3-4-SO, SB3-5-SO, and MW3-6D-SM were flagged "B" as due to rinsate contamination. No zinc results were qualified "B" since all values were greater than five times the rinsate level.

3.0 MATRIX SPIKE SAMPLE ANALYSIS

The matrix spike (MS) sample analysis is intended to provide information about the affects that the sample matrix exerts on the digestion and measurement methodology. MS recovery values that do not meet QC criteria indicate that associated sample results may be biased. The potential sample bias may be estimated by noting the degree to which the MS concentration was elevated or lowered in the spike analysis. However, any bias should serve only as an approximation; sample-specific problems may be the cause of the discrepancy, particularly in soil samples.

REVIEW RESULTS:

Matrix spikes were analyzed at the required frequency as stated in the QAPP, Table 10-1. No matrix spike analysis is required for percent organic matter.

All MS recoveries for TRPH and metals analysis were within the QC limits of 75-125%, except for the following:

Job Number	Matrix	Analyte	Recovery (%)	Associated Samples
9500.340/.353	Soil	Antimony Selenium	65.8 49.1	MW3-6D-SM MW3-IE-SO
9500.562	Sediment	Antimony Selenium Thallium	69.5 26.2 62.5	SD3-1-SO SD3-2-SM SD3-3-SO
9500.562	Sediment	Selenium(RE) Thallium(RE)	65.0 64.4	SD3-1-SO SD3-2-SM SD3-3-SO
9500.646/.647	Water	Selenium	60.8	MW3-1E-WO MW3-1-WO MW3-2-WO MW3-3-WO MW3-4-WO MW3-5A-WM MW3-6A-WO MW3-6D-WO
9500.629	Water	Selenium	66.0	MW3-3D-WO MW3-7-WO
9500.597/.614	Soil	Antimony Zinc	73.6 236	SB3-3-SO SB3-4-SO SB3-5-SO SB3-6-SO SB3-7-SO SB3-7-SD SB3-8-SM SB3-9-SO SB3-10-SO

Positive results and QLs for the above metals, except zinc, are flagged "J" and "UJ", respectively, as estimated in the associated samples. There were no positive results for antimony or thallium in any of the Site 3 samples. Positive results for zinc are flagged "J" as estimated because of the high spike recovery.

Reanalysis of selenium and thallium in Job 9500.562 substantiated matrix interference. The post digestion spike recoveries for selenium in Jobs 9500.629 and 9500.646/.647 were within QC limits, indicating limitations of the analytical method rather than a matrix problem.

In the zinc spike analysis for Job 9500.597/.614, the sample result is high compared to the spike, but not quite four times the spike amount. The laboratory duplicate results for zinc in

the same sample gave a high RPD as noted below. Both problems indicate a matrix effect which impacts positive zinc results in the subsurface soils.

For Jobs 9500.340/.353, 9500.562, and 9500.597/.614, the soil laboratory control sample (LCS) was not analyzed due to an oversight. No data were qualified for this omission based on acceptable MS recoveries except as noted above.

4.0 LABORATORY DUPLICATE ANALYSIS

Laboratory duplicate samples are analyzed to evaluate the precision of the sample results. Precision is measured as the RPD between analytical results for duplicate samples. The laboratory's failure to produce similar results for duplicate samples may indicate that the samples were non-homogeneous (particularly in soil samples), or that method defects may exist in the laboratory's techniques.

REVIEW RESULTS

Laboratory duplicates were analyzed at the required frequency as stated in the QAPP, Table 10-1.

All RPDs for TRPH, percent organic matter, and metals analyses were within QC limits, except for the following:

Job Number	Matrix	Analyte	RPD	Associated Samples
9500.562	Soil	Cadmium	74.5	SD3-1-SO
		Chromium	56.6	SD3-2-SM
		Copper	49.8	SD3-3-SO
		Zinc	36.6	
9500.562	Soil	Cadmium(RE)	67.3	SD3-1-SO
		Copper(RE)	49.8	SD3-2-SM
		Zinc(RE)	36.7	SD3-3-SO
9500.597/614	Soil	Zinc	81.7	SB3-3-SO SB3-4-SO SB3-5-SO SB3-6-SO SB3-7-SO SB3-7-SD SB3-8-SM SB3-9-SO SB3-10-SO

Positive results for these analytes are flagged "J" as estimated in associated samples. For Job 9500.562, this qualification includes chromium, even though reanalysis gave an acceptable RPD. However, the chromium reanalysis results were significantly lower than the original laboratory duplicate results. The high RPDs on reanalysis indicate a matrix effect.

Elevated RPDs are generally the result of the non-homogeneous nature of soil and sediment samples.

II. VOC, BNA, PCB, AND PCDD/PCDF ANALYSES

1.0 HOLDING TIMES AND SAMPLE PRESERVATION

HT are established and monitored to ensure analytical results accurately represent analyte concentrations in a sample at the time of collection. Exceeding the HT for a sample generally results in a loss of the analyte due to a variety of mechanisms, such as deposition on the sample container wall, co-precipitation with particulates or volatilization through leaks in the container. Correct preservation of samples by cooling to 4°C also is monitored.

REVIEW RESULTS:

HT limits:

VOC - Seven days for analysis, soil and water

BNA, PCB - Seven days for extraction, 40 days for analysis, soil and water

PCDD/PCDF - 30 days for extraction, 45 days for analysis, soil and water

All samples were extracted and analyzed within the required holding times and were preserved correctly, except for the following:

Chloroform, carbon tetrachloride, and trichloroethene exceeded the calibration range in the volatile analyses for field duplicate samples, SB3-7-SO and SB3-7-SD. These samples were reanalyzed at a dilution four days past the seven day holding time. The results from the diluted analysis should be used for chloroform, carbon tetrachloride, and trichloroethene; the remaining compound results should be taken from the original analysis. The diluted analysis results and QLs are flagged "J" and "UJ", respectively, as estimated because of the holding time violation.

One sediment sample was resampled for BNA analysis, because of surrogate recovery problems and reextraction five days past HT. Two groundwater samples were resamples for the acid phenol portion of BNA analysis, because of poor surrogate recoveries and reextraction 11 days past HT. Extraction and analysis of the resamples were performed within HT.

The three subsurface soil samples and accompanying rinsate analyzed for PCDD/PCDF were received by TLI from the ASC laboratory at 10°C and then stored at 4°C. The samples had been properly preserved with sufficient ice in the cooler. The samples were shipped under ice in a cooler via Federal Express. No data qualification is considered necessary, since PCDDs and PCDFs are very stable compounds.

The temperature of the three surface waters and three sediments was 9°C upon arrival at ASC laboratory based on the temperature blank. The samples had been properly preserved with sufficient ice in the cooler. It is likely that the temperature blank was still in the cooling process, since travel time between the site and the laboratory is approximately 30 minutes. No data qualification is considered necessary.

2.0 LABORATORY AND FIELD BLANKS

Laboratory method blank samples are evaluated to assess the existence and magnitude of possible contamination. Field blanks are evaluated to assess the possibility of contamination from field sampling and decontamination procedures. Trip blanks are used to determine possible contamination in water samples from volatile organic compounds during shipment and storage.

If contaminants are detected in any blank samples, then all associated data must be carefully evaluated to determine if blank contaminants detected were actually present in the sample or were introduced as a contaminant during some phase of the sampling and analytical procedures.

REVIEW RESULTS:

Laboratory and field blanks were analyzed at the required frequency as stated in the QAPP, Tables 10-1 and 5-1, respectively.

No contaminants were detected in any of the laboratory blanks, except for the following:

Blank ID	Analyte	Concentration	Associated Samples
Job 9500.562 VBLKS1	4-Methyl- 2-pentanone	2 J $\mu\text{g}/\text{kg}$	SD3-1-SO SD3-3-SO
Job 9500.562 VBLKS2	Acetone	4 J $\mu\text{g}/\text{kg}$	SD3-2-SM
Job 9500.340/.353 VOC Blank (02/17)	Acetone	13 $\mu\text{g}/\text{kg}$	MW3-6D-SM
Job 9500.340/.353 VOC Blank (02/21)	Acetone	8.3 J $\mu\text{g}/\text{kg}$	MW3-IE-SO
Job 9500.340/.353 BNA Blank (600)	bis(2-Ethylhexyl) phthalate	35 I $\mu\text{g}/\text{kg}$	MW3-6D-SM MW3-IE-SO
Job 9500.597/.614 VBLKS1	Acetone	4 J $\mu\text{g}/\text{kg}$	SB3-7-SO SB3-7-SD SB3-6-SO
Job 9500.597 VBLKS2	Acetone	2 J $\mu\text{g}/\text{kg}$	SB3-8-SM SB3-9-SO SB3-10-SO
Job 9500.597 VOA MEOH BLK	Acetone Methylene chloride 2-Butanone	1200 $\mu\text{g}/\text{kg}$ 280 J $\mu\text{g}/\text{kg}$ 1700 $\mu\text{g}/\text{kg}$	SB3-7-SO DL SB3-7-SD DL

Only common laboratory contaminants were detected and no analytical problems affecting data usability were noted. Positive results for these analytes are flagged "B" as undetected up

to ten times the blank level in the associated samples. Since acetone was detected in the majority of the soil method blanks, qualified samples are extended to include all soils and sediments.

No target analytes for VOCs were detected in the trip blanks. The rinsate blanks indicated no contamination in VOC, BNA, PCB, and PCDD/PCDF analyses.

THCs were present in both laboratory and field blanks because the mass/charge 57 ion is found in the internal standards added to all samples including blanks. In VOC analysis, the THC levels in the soil and water blanks ranged from 3 to 5 $\mu\text{g}/\text{kg}$ or $\mu\text{g}/\text{L}$. In BNA analysis, the blank levels ranged from 5 to 10 $\mu\text{g}/\text{L}$ for waters and from 630 to 730 $\mu\text{g}/\text{kg}$ for soils. Thus, the sample results must be blank subtracted to indicate any actual site contamination by THCs.

For BNA analysis, some tentatively identified compounds (TICs) were detected in the method blanks. Where these TICs were detected in associated samples, they were flagged "B" as undetected due to blank contamination up to five times the blank level.

3.0 SURROGATE SPIKE RECOVERY

Laboratory performance for individual samples is established by means of surrogate spiking activities. Samples are spiked with surrogate compounds prior to preparation and analysis. Unusually low or high surrogate recovery values may indicate some deficiency in the analytical system or that some matrix effects exist, resulting in low or high sample results for target compounds. For PCDD/PCDF analysis, samples are spiked with internal standards prior to preparation and analysis; thus, PCDD/PCDF internal standards will be considered as surrogates in this memorandum.

REVIEW RESULTS:

All surrogate spike percent recoveries (%R) for VOC, BNA, and PCB analyses were within QC limits, except for the following:

Sediment sample SD3-1-SO was resampled for BNAs and groundwater samples MW3-3-WO and MW3-5A-WM were resampled for acid phenols, because of the poor surrogate recoveries and subsequent reextraction past HT. There were no surrogate problems with the resamples, so no qualification is necessary. For the sediment sample, the BNA results from the May 24, 1995 resampling are considered more acceptable data. For the groundwaters, the base neutral results from the initial sampling and the acid phenols from the May 24, 1995 resampling are considered more acceptable.

All internal standards, recovery standards, and cleanup standards for PCDD/PCDF analysis met QC criteria with the following exceptions:

- Internal standard OCDD gave slightly low recoveries of 23.3%, 21.6%, and 24.0% for SB03-02-SM and the MS/MSD analyses. However, the 10:1 signal to noise criteria was met. No qualification is necessary.

- Internal standard HpCDF had an ion abundance ratio outside the acceptable QC limits in SB03-02-SM. No qualification is necessary because no compounds quantitated with this standard were detected.

4.0 MATRIX SPIKE AND MATRIX SPIKE DUPLICATE ANALYSIS

Matrix spike and matrix spike duplicate (MS/MSD) analyses are designed to evaluate precision and accuracy of the analytical method on various matrices and to evaluate possible effects of the sample matrix on target analyte recovery. To assess any possible matrix interference, specific analytes are spiked into a selected sample and a duplicate of that sample. At minimum, the process is repeated for each matrix analyzed. The spike %Rs for the sample and the duplicate are determined as are the RPD values between the sample and duplicate. Low or elevated spike %Rs and/or elevated RPD values may indicate that a significant interference is affecting sample results for that particular matrix.

REVIEW RESULTS:

The MS/MSDs were analyzed at the required frequency stated in Volume 2, Section 10 of the QAPP (Table 10-1).

All MS and MSD %Rs and RPDs for VOC, BNA, PCB, and PCDD/PCDF analyses were within QC limits or had minor problems which did not require data qualification or affect data usability.

III. FIELD DUPLICATE SAMPLES

Field duplicate samples were collected and analyzed as an indication of overall precision for both field and laboratory. The results are expected to have more variability than laboratory duplicates which measure only laboratory precision. It is expected also that soil field duplicates will exhibit greater variance than water field duplicates due to the difficulties associated with collecting identical field samples. The QC criteria used to assess field duplicate samples for this project were limits of 70% RPD for soils and 40% RPD for waters, or twice the general laboratory duplicate criteria. There are no guidelines regarding data qualification based on poor field duplicate precision. Professional judgement was used to determine whether or not to qualify results.

REVIEW RESULTS

For Site 3, two field duplicate sets were collected and analyzed for subsurface soil samples, one set was analyzed for PCDD/PCDF and the other set for VOC, BNA, metals, and TRPH. Acceptable precision was generated for all of the analyses performed on the field duplicates with the following exceptions:

Field Duplicate ID	Analyte	Original Result	Duplicate Result	%RPD
SB3-7-SO/-SD	Selenium	3.5 mg/kg	1.4 mg/kg	86
SB3-7-SO/-SD	TCE	1400 µg/kg	3000 µg/kg	73
SB3-01-SO/-SD	OCDD	<0.06 µg/kg	0.297 µg/kg	NC

NC = Not calculable
TCE = Trichloroethene

Reported results for these analytes are flagged "J" as estimated in the respective field duplicate samples. The differences are most likely due to the non-homogeneous nature of the soil samples.

IV. COMPOUND IDENTIFICATION/QUANTITATION

As far as could be determined without review of the calibration data, there were no problems with compound identification or quantitation, except for the following:

For PCDD/PCDF analysis, some of the labeled standards used in the analysis have ion fragments with the same mass as the quantitation mass of some of the analytes. These lower mass fragments appear as peaks or "breakthrough" in the analyte channel. The interfering peaks due to the labeled standards lie outside the retention time window of the analyte. In the case of TCDD/TCDF, the interferences usually lie within the retention time window. Whenever breakthrough peaks occur from the labeled standards, these peaks are reported as estimated maximum possible concentrations (EMPCs), and may be considered artifacts from the labeled standards, not site contamination.

Any results qualified "J" as estimated, and not explained in the above text, are levels detected below the method quantitation limit, but above the instrument detection limit. The laboratory adds the "J" qualifier to indicate quantitative uncertainty; qualitative assurance is provided by mass spectrum analysis.

V. COMPLETENESS

Completeness is a measure of the amount of valid data obtained from a measurement system compared to the amount expected to be obtained under typical operating conditions. A completeness goal for 100% has been met since no data was rejected, without provision of acceptable reanalysis data.

DATA QUALIFIERS USED

UJ - Not detected, quantitation limit may be inaccurate or imprecise.

- B - Not detected substantially above the level reported in laboratory or field blanks.
- J - Analyte present, reported value may not be accurate or precise.

Case Narrative
NM-9000 Niagara Falls IAP-ARS
9500.340; 9500.353

All aqueous volatile samples were determined to be at a pH of 6 s.u.

A laboratory control sample was not analyzed for the volatile fraction nor prepared for the aqueous semi-volatile fraction.

As requested, the extracted ion profile for m/z 57 over the entire mass chromatogram was obtained for each sample analyzed for volatile and semi-volatile compounds. A value representing the total hydrocarbons present as m/z 57 is reported for each sample. This value was obtained using the internal standard method. The total area of the m/z 57 peaks was compared to the total ion response of the first eluting internal standard assuming a response factor of 1. Since the m/z 57 is present in the internal standards added to all samples, a positive value will always be obtained.

The level of diethyl phthalate detected in sample NM9-MW03-IE-SO-021695 exceeded the instrument's calibrated range. The sample was reanalyzed at a secondary dilution. Results from both analyses are included in this report.

Continuing calibration criterion was not met for fluoranthene in the standard associated with the dilution of sample NM9-MW03-IE-SO-021695. response was sufficient for detection of this compound. It was not found in the sample.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.



Gary Hahn - Manager
Analytical Services Center
March 16, 1995

CHAIN-OF-CUSTODY RECORD

Project No: NM9022		Project Name: NIAGARA FALLS IAP-ABS SITE 3 RE1			Project Manager: M. SCHMITT		REMARKS DEPTA															
Samplers (Signatures): <i>R. Watt</i>		Field Team Leader: R. WATT																				
STATION NUMBER	DATE	TIME	SAMPLE TYPE			STATION LOCATION	NUMBER OF CONTAINERS	METHOD AND JOBS 2270 & 19 TOXICITY FOLLOWUP METALS TPH														
			COMP	GRAB	AIR							EXPECTED COMPOUNDS (Concentration)*										
	1995																					
	2-15	1130	X			NM9-MW03-00-SM-021595	6	✓	✓	✓	✓									DOUBLE VOLUME FOR HS/MSD	10-8	
	2-15	1545		X		NM9-MW03-00-WR-021595	6	✓	✓	✓	✓										RINSE	
	2-15	1545		X		NM9-MW03-00-WT-021595	3	✓													TRIP BLANK	

Relinquished By: (Signature) <i>R. Watt</i>	Date/Time: 2-15-95	Received By: (Signature) <i>[Signature]</i>	Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Ship Via: E&E
Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	BL/Airbit Number: N/A
Relinquished By: (Signature) <i>[Signature]</i>	Date/Time: 2-15-95 5:05 PM	Received For Laboratory By: (Signature) <i>[Signature]</i>	Relinquished By: (Signature)	Date/Time:	Received For Laboratory By: (Signature)	Date: 2-15-95

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CHAIN-OF-CUSTODY RECORD

2647

Project No.: NM9022	Project Name: Niagara Falls IAP-ARS - site 13	Project Manager: J. Bastedo	REMARKS
Samplers: (Signatures) C. Flout Dennis R...		Field Team Leader: C. Flout	

STATION NUMBER	DATE	TIME	SAMPLE TYPE			EXPECTED COMPOUNDS (Concentration)*	STATION LOCATION	NUMBER OF CONTAINERS	ANALYSIS					REMARKS		
			COMP	GRAB	AIR				VOCs (6-10)	UNB (6-10)	P.P. metals	TRPH				
1	2-16-95	0824	X			None (low)	NM9-MW03-IE-WT-02-16-95	3	X							
2	2-16-95	1020	X			None (low)	NM9-MW03-IE-WR-02-16-95	6	X	X	X	X				TRPH NEEDS to be preserved with H2SO4 upon delivery
3	2-16-95	1154	X			unknown (low)	NM9-MW03-IE-SC-02-16-95	3	X	X	X	X				
4	2-16-95		X			unknown (low)	NM9-MW03-IE-SB-02-16-95	3	X	X	X	X				

Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Ship Via: Hand Delivery
Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	
Relinquished By: (Signature)	Date/Time:	Received For Laboratory By: (Signature)	Relinquished By: (Signature)	Date/Time:	Received For Laboratory By: (Signature)	
	16 Feb 95 5:40			2/16/95		BL/Airbill Number: N/A
						Date: 2-16-95

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F-15

TEST CODE : SPURG 1

JOB NUMBER : 9500.340

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NM-9000 RFI SITE 3 - NFAFB AFRES

RESULTS IN DRY WEIGHT

%SOLIDS : 92 %

TEST NAME : PURGEABLES

UNITS : UG/KG

SAMPLE ID LAB : EE-95-21743

MATRIX : SOLID

SAMPLE ID CLIENT: NM9-MW03-6D-SM-021595

DATE RECEIVED : 02/15/95

SDG # : 21743

DATE EXTRACTED: NA

DATE ANALYZED : 02/17/95

SAMPLE VOLUME: 4.85 g

INJECTION VOLUME: NA

FINAL VOLUME : NA

DILUTION FACTOR : 1.0

PARAMETER	RESULTS	Q	QNT.	LIMIT
Chloromethane	ND			11
Bromomethane	ND			11
Vinyl chloride	ND			11
Chloroethane	ND			11
Methylene chloride	ND			5.4
1,1-Dichloroethene	ND			5.4
1,1-Dichloroethane	ND			5.4
cis-1,2-Dichloroethene	ND			5.4
trans-1,2-Dichloroethene	ND			5.4
Chloroform	ND			5.4
1,2-Dichloroethane	ND			5.4
1,1,1-Trichloroethane	ND			5.4
Carbon tetrachloride	ND			5.4
Bromodichloromethane	ND			5.4
1,2-Dichloropropane	ND			5.4
trans-1,3-dichloropropene	ND			5.4
Trichloroethene	ND			5.4
Dibromochloromethane	ND			5.4
1,1,2-Trichloroethane	ND			5.4
Benzene	ND			5.4
cis-1,3-dichloropropene	ND			5.4
2-Chloroethylvinyl ether	ND			11
Bromoform	ND			5.4
Tetrachloroethene	ND			5.4
1,1,2,2-Tetrachloroethane	ND			5.4
Toluene	ND			5.4
Chlorobenzene	ND			5.4
Ethylbenzene	ND			5.4
Acetone	13	B		11
Carbon disulfide	ND			5.4

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

B = ALSO PRESENT IN BLANK

X = EXCEEDS CALIBRATION LIMIT

N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE

A = PHENOMENON OF METHODOLOGY WITH ACID PRESERVATION

NA = NOT APPLICABLE

TEST CODE : SPURG 1

JOB NUMBER : 9500.340

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NM-9000 RFI SITE 3 - NFAFB AFRES
 RESULTS IN DRY WEIGHT %SOLIDS : 92 %
 TEST NAME : PURGEABLES UNITS : UG/KG
 SAMPLE ID LAB : EE-95-21743 MATRIX : SOLID
 SAMPLE ID CLIENT: NM9-MW03-6D-SM-021595 DATE RECEIVED : 02/15/95
 SDG # : 21743 DATE EXTRACTED: NA
 DATE ANALYZED : 02/17/95

SAMPLE VOLUME: 4.85 g
FINAL VOLUME : NA

INJECTION VOLUME: NA
DILUTION FACTOR : 1.0

PARAMETER	RESULTS	Q	QNT. LIMIT
2-Butanone	ND		11
Vinyl acetate	ND		11
2-Hexanone	ND		11
Styrene	ND		5.4
Total xylenes	ND		5.4
4-Methyl-2-pentanone	ND		11

 QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 X = EXCEEDS CALIBRATION LIMIT
 N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE
 A = PHENOMENON OF METHODOLOGY WITH ACID PRESERVATION
 NA = NOT APPLICABLE

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF WATER ANALYSIS FOR TENTATIVELY IDENTIFIED
VOLATILE ORGANIC COMPOUNDS BY GC/MS

(all results in ug/Kg)

CLIENT : NM-9000 RFI SITE 3 - NFAFB AFRES
RESULTS IN DRY WEIGHT %SOLIDS : 92 %
TEST NAME : PURGEABLES UNITS : UG/KG
SAMPLE ID LAB : EE-95-21743 MATRIX: SOLID
SAMPLE ID CLIENT: NM9-MW03-6D-SM-021595 DATE RECEIVED : 02/15/95
SDG # : 21743 DATE EXTRACTED: NA
DATE ANALYZED : 02/17/95

SAMPLE VOLUME: 4.85 G INJECTION VOLUME: NA
FINAL VOLUME : NA DILUTION FACTOR : 1.0

Compound

None Detected

Total Hydrocarbons Present as m/z 57 - 5

** Values are approximate retention times, in minutes.

TEST CODE : WPURG 1

JOB NUMBER : 9500.340

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NM-9000 RFI SITE 3 - NFAFB AFRES
 TEST NAME : PURGEABLES UNITS : UG/L
 SAMPLE ID LAB : EE-95-21744 MATRIX: WATER
 SAMPLE ID CLIENT: NM9-MW03-6D-WR-021595 DATE RECEIVED : 02/15/95
 SDG # : 21743 DATE EXTRACTED: NA
 DATE ANALYZED : 02/20/95
 SAMPLE VOLUME: 5 mL INJECTION VOLUME: NA
 FINAL VOLUME : NA DILUTION FACTOR : 1.0

PARAMETER	RESULTS	Q	QNT. LIMIT
Chloromethane	ND		10
Bromomethane	ND		10
Vinyl chloride	ND		10
Chloroethane	ND		10
Methylene chloride	ND		5.0
1,1-Dichloroethene	ND		5.0
1,1-Dichloroethane	ND		5.0
cis-1,2-Dichloroethene	ND		5.0
trans-1,2-Dichloroethene	ND		5.0
Chloroform	ND		5.0
1,2-Dichloroethane	ND		5.0
1,1,1-Trichloroethane	ND		5.0
Carbon tetrachloride	ND		5.0
Bromodichloromethane	ND		5.0
1,2-Dichloropropane	ND		5.0
trans-1,3-dichloropropene	ND		5.0
Trichloroethene	ND		5.0
Dibromochloromethane	ND		5.0
1,1,2-Trichloroethane	ND		5.0
Benzene	ND		5.0
cis-1,3-dichloropropene	ND		5.0
2-Chloroethylvinyl ether	ND		10
Bromoform	ND		5.0
Tetrachloroethene	ND		5.0
1,1,2,2-Tetrachloroethane	ND		5.0
Toluene	ND		5.0
Chlorobenzene	ND		5.0
Ethylbenzene	ND		5.0
Acetone	ND		10
Carbon disulfide	ND		5.0
2-Butanone	ND		10
Vinyl acetate	ND		10
4-Methyl-2-pentanone	ND		10

 QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE
 A = PHENOMENON OF METHODOLOGY WITH ACID PRESERVATION
 NA = NOT APPLICABLE

TEST CODE : WPURG 1

JOB NUMBER : 9500.340

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NM-9000 RFI SITE 3 - NFAFB AFRES

TEST NAME : PURGEABLES

UNITS : UG/L

SAMPLE ID LAB : EE-95-21744

MATRIX: WATER

SAMPLE ID CLIENT: NM9-MW03-6D-WR-021595

DATE RECEIVED : 02/15/95

SDG # : 21743

DATE EXTRACTED: NA

DATE ANALYZED : 02/20/95

SAMPLE VOLUME: 5 mL

INJECTION VOLUME: NA

FINAL VOLUME : NA

DILUTION FACTOR : 1.0

PARAMETER	RESULTS	Q	QNT. LIMIT
2-Hexanone	ND	-	10
Styrene	ND	-	5.0
Total xylenes	ND	-	5.0

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

B = ALSO PRESENT IN BLANK

N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE

A = PHENOMENON OF METHODOLOGY WITH ACID PRESERVATION

NA = NOT APPLICABLE

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF WATER ANALYSIS FOR TENTATIVELY IDENTIFIED
VOLATILE ORGANIC COMPOUNDS BY GC/MS

(all results in ug/L)

CLIENT : NM-9000 RFI SITE 3 - NFAFB AFRES
TEST NAME : PURGEABLES UNITS : UG/L
SAMPLE ID LAB : EE-95-21744 MATRIX: WATER
SAMPLE ID CLIENT: NM9-MW03-6D-WR-021595 DATE RECEIVED : 02/15/95
SDG # : 21743 DATE EXTRACTED: NA
DATE ANALYZED : 02/20/95
SAMPLE VOLUME: 5 mL INJECTION VOLUME: NA
FINAL VOLUME : NA DILUTION FACTOR : 1.0

Compound

None Detected

Total Hydrocarbons Present as m/z 57 - 3

** Values are approximate retention times, in minutes.

TEST CODE : WPURG 1

JOB NUMBER : 9500.340

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NM-9000 RFI SITE 3 - NFAFB AFRES

TEST NAME : PURGEABLES

UNITS : UG/L

SAMPLE ID LAB : EE-95-21745

MATRIX: WATER

SAMPLE ID CLIENT: NM9-MW03-6D-WT-021595

DATE RECEIVED : 02/15/95

SDG # : 21743

DATE EXTRACTED: NA

DATE ANALYZED : 02/20/95

SAMPLE VOLUME: 5 mL

INJECTION VOLUME: NA

FINAL VOLUME : NA

DILUTION FACTOR : 1.0

PARAMETER	RESULTS	Q	QNT. LIMIT
Chloromethane	ND		10
Bromomethane	ND		10
Vinyl chloride	ND		10
Chloroethane	ND		10
Methylene chloride	ND		5.0
1,1-Dichloroethene	ND		5.0
1,1-Dichloroethane	ND		5.0
cis-1,2-Dichloroethene	ND		5.0
trans-1,2-Dichloroethene	ND		5.0
Chloroform	ND		5.0
1,2-Dichloroethane	ND		5.0
1,1,1-Trichloroethane	ND		5.0
Carbon tetrachloride	ND		5.0
Bromodichloromethane	ND		5.0
1,2-Dichloropropane	ND		5.0
trans-1,3-dichloropropene	ND		5.0
Trichloroethene	ND		5.0
Dibromochloromethane	ND		5.0
1,1,2-Trichloroethane	ND		5.0
Benzene	ND		5.0
cis-1,3-dichloropropene	ND		5.0
2-Chloroethylvinyl ether	ND		10
Bromoform	ND		5.0
Tetrachloroethene	ND		5.0
1,1,2,2-Tetrachloroethane	ND		5.0
Toluene	ND		5.0
Chlorobenzene	ND		5.0
Ethylbenzene	ND		5.0
Acetone	ND		10
Carbon disulfide	ND		5.0
2-Butanone	ND		10
Vinyl acetate	ND		10
4-Methyl-2-pentanone	ND		10

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

B = ALSO PRESENT IN BLANK

N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE

A = PHENOMENON OF METHODOLOGY WITH ACID PRESERVATION

NA = NOT APPLICABLE

TEST CODE : WPURG 1

JOB NUMBER : 9500.340

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NM-9000 RFI SITE 3 - NEAFB AFRES
 TEST NAME : PURGEABLES UNITS : UG/L
 SAMPLE ID LAB : EE-95-21745 MATRIX: WATER
 SAMPLE ID CLIENT: NM9-MW03-6D-WT-021595 DATE RECEIVED : 02/15/95
 SDG # : 21743 DATE EXTRACTED: NA
 DATE ANALYZED : 02/20/95
 SAMPLE VOLUME: 5 mL INJECTION VOLUME: NA
 FINAL VOLUME : NA DILUTION FACTOR : 1.0

PARAMETER	RESULTS	Q	QNT. LIMIT
2-Hexanone	ND		10
Styrene	ND		5.0
Total xylenes	ND		5.0

 QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE
 A = PHENOMENON OF METHODOLOGY WITH ACID PRESERVATION
 NA = NOT APPLICABLE

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF WATER ANALYSIS FOR TENTATIVELY IDENTIFIED
VOLATILE ORGANIC COMPOUNDS BY GC/MS

(all results in ug/L)

CLIENT : NM-9000 RFI SITE 3 - NFAFB AFRES
TEST NAME : PURGEABLES UNITS : UG/L
SAMPLE ID LAB : EE-95-21745 MATRIX: WATER
SAMPLE ID CLIENT: NM9-MWQ3-6D-WT-021595 DATE RECEIVED : 02/15/95
SDG # : 21743 DATE EXTRACTED: NA
DATE ANALYZED : 02/20/95
SAMPLE VOLUME: 5 mL INJECTION VOLUME: NA
FINAL VOLUME : NA DILUTION FACTOR : 1.0

Compound

None Detected

Total Hydrocarbons Present as m/z 57 - 3

** Values are approximate retention times, in minutes.

TEST CODE : SPURG 1

JOB NUMBER : 9500.353

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NM-9000 RFI SITE 3 - NFAFB AFRES
 RESULTS IN DRY WEIGHT %SOLIDS : 79 %
 TEST NAME : PURGEABLES UNITS : UG/KG
 SAMPLE ID LAB : EE-95-21809 MATRIX : SOLID
 SAMPLE ID CLIENT: NM9-MW03-IE-SO-02-16-95 DATE RECEIVED : 02/16/95
 SDG # : 21743 DATE EXTRACTED: NA
 DATE ANALYZED : 02/21/95

SAMPLE VOLUME: 5.23 g
FINAL VOLUME : NA

INJECTION VOLUME: NA
DILUTION FACTOR : 1.0

PARAMETER	RESULTS	Q	QNT. LIMIT
Chloromethane	ND		13
Bromomethane	ND		13
Vinyl chloride	ND		13
Chloroethane	ND		13
Methylene chloride	ND		6.3
1,1-Dichloroethene	ND		6.3
1,1-Dichloroethane	ND		6.3
cis-1,2-Dichloroethene	ND		6.3
trans-1,2-Dichloroethene	ND		6.3
Chloroform	ND		6.3
1,2-Dichloroethane	ND		6.3
1,1,1-Trichloroethane	ND		6.3
Carbon tetrachloride	ND		6.3
Bromodichloromethane	ND		6.3
1,2-Dichloropropane	ND		6.3
trans-1,3-dichloropropene	ND		6.3
Trichloroethene	ND		6.3
Dibromochloromethane	ND		6.3
1,1,2-Trichloroethane	ND		6.3
Benzene	ND		6.3
cis-1,3-dichloropropene	ND		6.3
2-Chloroethylvinyl ether	ND		13
Bromoform	ND		6.3
Tetrachloroethene	ND		6.3
1,1,2,2-Tetrachloroethane	ND		6.3
Toluene	ND		6.3
Chlorobenzene	ND		6.3
Ethylbenzene	ND		6.3
Acetone	14	B	13
Carbon disulfide	ND		6.3

 QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 X = EXCEEDS CALIBRATION LIMIT NA = NOT APPLICABLE
 N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE
 A = PHENOMENON OF METHODOLOGY WITH ACID PRESERVATION

TEST CODE : SPURG 1

JOB NUMBER : 9500.353

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NM-9000 RFI SITE 3 - NFAFB AFRES

RESULTS IN DRY WEIGHT

%SOLIDS : 79 %

TEST NAME : PURGEABLES

UNITS : UG/KG

SAMPLE ID LAB : EE-95-21809

MATRIX : SOLID

SAMPLE ID CLIENT: NM9-MW03-IE-SO-02-16-95 DATE RECEIVED : 02/16/95

SDG # : 21743

DATE EXTRACTED: NA

DATE ANALYZED : 02/21/95

SAMPLE VOLUME: 5.23 g

INJECTION VOLUME: NA

FINAL VOLUME : NA

DILUTION FACTOR : 1.0

PARAMETER	RESULTS	Q	QNT. LIMIT
2-Butanone	ND		13
Vinyl acetate	ND		13
2-Hexanone	ND		13
Styrene	ND		6.3
Total xylenes	ND		6.3
4-Methyl-2-pentanone	ND		13

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

B = ALSO PRESENT IN BLANK

X = EXCEEDS CALIBRATION LIMIT

NA = NOT APPLICABLE

N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE

A = PHENOMENON OF METHODOLOGY WITH ACID PRESERVATION

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF WATER ANALYSIS FOR TENTATIVELY IDENTIFIED
VOLATILE ORGANIC COMPOUNDS BY GC/MS

(all results in ug/Kg)

CLIENT : NM-9000 RFI SITE 3 - NFAFB AFRES
RESULTS IN DRY WEIGHT : %SOLIDS : 79 %
TEST NAME : PURGEABLES UNITS : UG/KG
SAMPLE ID LAB : EE-95-21809 MATRIX: SOLID
SAMPLE ID CLIENT: NM9-MW03-IE-SO-021695 DATE RECEIVED : 02/16/95
SDG # : 21743 DATE EXTRACTED: NA
DATE ANALYZED : 02/21/95

SAMPLE VOLUME: 5.23 G INJECTION VOLUME: NA
FINAL VOLUME : NA DILUTION FACTOR : 1.0

Compound

None Detected

Total Hydrocarbons Present as m/z 57 - 4

** Values are approximate retention times, in minutes.

TEST CODE : WPURG 1

JOB NUMBER : 9500.353

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NM-9000 RFI SITE 3 - NFAFB AFRES
 TEST NAME : PURGEABLES UNITS : UG/L
 SAMPLE ID LAB : EE-95-21810 MATRIX: WATER
 SAMPLE ID CLIENT: NM9-MW03-IE-WR-02-16-95 DATE RECEIVED : 02/16/95
 SDG # : 21743 DATE EXTRACTED: NA
 DATE ANALYZED : 02/20/95
 SAMPLE VOLUME: 5 mL INJECTION VOLUME: NA
 FINAL VOLUME : NA DILUTION FACTOR : 1.0

PARAMETER	RESULTS	Q	QNT. LIMIT
Chloromethane	ND		10
Bromomethane	ND		10
Vinyl chloride	ND		10
Chloroethane	ND		10
Methylene chloride	ND		5.0
1,1-Dichloroethene	ND		5.0
1,1-Dichloroethane	ND		5.0
cis-1,2-Dichloroethene	ND		5.0
trans-1,2-Dichloroethene	ND		5.0
Chloroform	ND		5.0
1,2-Dichloroethane	ND		5.0
1,1,1-Trichloroethane	ND		5.0
Carbon tetrachloride	ND		5.0
Bromodichloromethane	ND		5.0
1,2-Dichloropropane	ND		5.0
trans-1,3-dichloropropene	ND		5.0
Trichloroethene	ND		5.0
Dibromochloromethane	ND		5.0
1,1,2-Trichloroethane	ND		5.0
Benzene	ND		5.0
cis-1,3-dichloropropene	ND		5.0
2-Chloroethylvinyl ether	ND		10
Bromoform	ND		5.0
Tetrachloroethene	ND		5.0
1,1,2,2-Tetrachloroethane	ND		5.0
Toluene	ND		5.0
Chlorobenzene	ND		5.0
Ethylbenzene	ND		5.0
Acetone	ND		10
Carbon disulfide	ND		5.0
2-Butanone	ND		10
Vinyl acetate	ND		10
4-Methyl-2-pentanone	ND		10

 QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE
 A = PHENOMENON OF METHODOLOGY WITH ACID PRESERVATION
 NA = NOT APPLICABLE

TEST CODE : WPURG 1

JOB NUMBER : 9500.353

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NM-9000 RFI SITE 3 - NFAFB AFRES
 TEST NAME : PURGEABLES UNITS : UG/L
 SAMPLE ID LAB : EE-95-21810 MATRIX: WATER
 SAMPLE ID CLIENT: NM9-MW03-IE-WR-02-16-95 DATE RECEIVED : 02/16/95
 SDG # : 21743 DATE EXTRACTED: NA
 DATE ANALYZED : 02/20/95
 SAMPLE VOLUME: 5 mL INJECTION VOLUME: NA
 FINAL VOLUME : NA DILUTION FACTOR : 1.0

PARAMETER	RESULTS	Q	QNT. LIMIT
2-Hexanone	ND	-	10
Styrene	ND	-	5.0
Total xylenes	ND	-	5.0

 QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE
 A = PHENOMENON OF METHODOLOGY WITH ACID PRESERVATION
 NA = NOT APPLICABLE

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF WATER ANALYSIS FOR TENTATIVELY IDENTIFIED
VOLATILE ORGANIC COMPOUNDS BY GC/MS

(all results in ug/L)

CLIENT : NM-9000 RFI SITE 3 - NFAFB AFRES
TEST NAME : PURGEABLES UNITS : UG/L
SAMPLE ID LAB : EE-95-21810 MATRIX: WATER
SAMPLE ID CLIENT: NM9-MW03-IE-WR-021695 DATE RECEIVED : 02/16/95
SDG # : 21743 DATE EXTRACTED: NA
DATE ANALYZED : 02/20/95
SAMPLE VOLUME: 5 mL INJECTION VOLUME: NA
FINAL VOLUME : NA DILUTION FACTOR : 1.0

Compound

None Detected

Total Hydrocarbons Present as m/z 57 - 3

** Values are approximate retention times, in minutes.

TEST CODE : WPURG 1

JOB NUMBER : 9500.353

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NM-9000 RFI SITE 3 - NFAFB AFRES
 TEST NAME : PURGEABLES UNITS : UG/L
 SAMPLE ID LAB : EE-95-21811 MATRIX: WATER
 SAMPLE ID CLIENT: NM9-MW03-IE-WT-02-16-95 DATE RECEIVED : 02/16/95
 SDG # : 21743 DATE EXTRACTED: NA
 DATE ANALYZED : 02/20/95
 SAMPLE VOLUME: 5 mL INJECTION VOLUME: NA
 FINAL VOLUME : NA DILUTION FACTOR : 1.0

PARAMETER	RESULTS	Q	QNT. LIMIT
Chloromethane	ND		10
Bromomethane	ND		10
Vinyl chloride	ND		10
Chloroethane	ND		10
Methylene chloride	ND		5.0
1,1-Dichloroethene	ND		5.0
1,1-Dichloroethane	ND		5.0
cis-1,2-Dichloroethene	ND		5.0
trans-1,2-Dichloroethene	ND		5.0
Chloroform	ND		5.0
1,2-Dichloroethane	ND		5.0
1,1,1-Trichloroethane	ND		5.0
Carbon tetrachloride	ND		5.0
Bromodichloromethane	ND		5.0
1,2-Dichloropropane	ND		5.0
trans-1,3-dichloropropene	ND		5.0
Trichloroethene	ND		5.0
Dibromochloromethane	ND		5.0
1,1,2-Trichloroethane	ND		5.0
Benzene	ND		5.0
cis-1,3-dichloropropene	ND		5.0
2-Chloroethylvinyl ether	ND		10
Bromoform	ND		5.0
Tetrachloroethene	ND		5.0
1,1,2,2-Tetrachloroethane	ND		5.0
Toluene	ND		5.0
Chlorobenzene	ND		5.0
Ethylbenzene	ND		5.0
Acetone	ND		10
Carbon disulfide	ND		5.0
2-Butanone	ND		10
Vinyl acetate	ND		10
4-Methyl-2-pentanone	ND		10

 QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE
 A = PHENOMENON OF METHODOLOGY WITH ACID PRESERVATION
 NA = NOT APPLICABLE

TEST CODE : WPURG 1

JOB NUMBER : 9500.353

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NM-9000 RFI SITE 3 - NFAFB AFRES
 TEST NAME : PURGEABLES UNITS : UG/L
 SAMPLE ID LAB : EE-95-21811 MATRIX: WATER
 SAMPLE ID CLIENT: NM9-MW03-IE-WT-02-16-95 DATE RECEIVED : 02/16/95
 SDG # : 21743 DATE EXTRACTED: NA
 DATE ANALYZED : 02/20/95
 SAMPLE VOLUME: 5 mL INJECTION VOLUME: NA
 FINAL VOLUME : NA DILUTION FACTOR : 1.0

PARAMETER	RESULTS	Q	QNT. LIMIT
2-Hexanone	ND	-	10
Styrene	ND	-	5.0
Total xylenes	ND	-	5.0

 QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE
 A = PHENOMENON OF METHODOLOGY WITH ACID PRESERVATION
 NA = NOT APPLICABLE

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF WATER ANALYSIS FOR TENTATIVELY IDENTIFIED
VOLATILE ORGANIC COMPOUNDS BY GC/MS

(all results in ug/L)

CLIENT : NM-9000 RFI SITE 3 - NFAFB AFRES
TEST NAME : PURGEABLES UNITS : UG/L
SAMPLE ID LAB : EE-95-21811 MATRIX: WATER
SAMPLE ID CLIENT: NM9-MW03-IE-WT-021695 DATE RECEIVED : 02/16/95
SDG # : 21743 DATE EXTRACTED: NA
DATE ANALYZED : 02/20/95
SAMPLE VOLUME: 5 mL INJECTION VOLUME: NA
FINAL VOLUME : NA DILUTION FACTOR : 1.0

Compound

None Detected

Total Hydrocarbons Present as m/z 57 - 3

** Values are approximate retention times, in minutes.

TEST CODE :SBNBNA1

JOB NUMBER :9500.340

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NM-9000 RFI SITE 3 - NFAFB AFRES

RESULTS IN DRY WEIGHT

%SOLIDS : 92 %

TEST NAME : BASE NEUTRAL

UNITS : UG/KG

SAMPLE ID LAB : EE-95-21743

MATRIX : SOLID

SAMPLE ID CLIENT: NM9-MW03-6D-SM-021595

DATE RECEIVED : 02/15/95

SDG # : 21743

DATE EXTRACTED: 02/20/95

DATE ANALYZED : 03/02/95

SAMPLE VOLUME: 30.0 g

INJECTION VOLUME: 2 uL

FINAL VOLUME : 0.5 mL

DILUTION FACTOR : 1.0

PARAMETER	RESULTS	Q	QNT. LIMIT
bis(2-chloroethyl)ether	ND		360
1,3-Dichlorobenzene	ND		360
1,4-Dichlorobenzene	ND		360
1,2-Dichlorobenzene	ND		360
bis(2-Chloroisopropyl)ether	ND		360
N-nitrosodipropylamine	ND		360
Hexachloroethane	ND		360
Nitrobenzene	ND		360
Isophorone	ND		360
bis(2-Chloroethoxy)methane	ND		360
1,2,4-Trichlorobenzene	ND		360
Naphthalene	ND		360
Hexachlorobutadiene	ND		360
Hexachlorocyclopentadiene	ND		360
2-Chloronaphthalene	ND		360
Dimethyl phthalate	ND		360
Acenaphthylene	ND		360
Fluorene	ND		360
Acenaphthene	ND		360
2,4-Dinitrotoluene	ND		360
2,6-Dinitrotoluene	ND		360
Diethyl phthalate	ND		360
4-Chlorophenyl phenyl ether	ND		360
N-nitrosodiphenylamine	ND		360
4-Bromophenyl phenyl ether	ND		360
Hexachlorobenzene	ND		360
Phenanthrene	ND		360
Anthracene	ND		360
Di-n-butyl phthalate	27	J	360

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
X = EXCEEDS CALIBRATION LIMIT
N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE
A = PHENOMENON OF METHODOLOGY WITH ACID PRESERVATION

TEST CODE :SBNBNA1

JOB NUMBER :9500.340

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NM-9000 RFI SITE 3 - NFAFB AFRES

RESULTS IN DRY WEIGHT

%SOLIDS : 92 %

TEST NAME : BASE NEUTRAL

UNITS : UG/KG

SAMPLE ID LAB : EE-95-21743

MATRIX : SOLID

SAMPLE ID CLIENT: NM9-MW03-6D-SM-021595

DATE RECEIVED : 02/15/95

SDG # : 21743

DATE EXTRACTED: 02/20/95

DATE ANALYZED : 03/02/95

SAMPLE VOLUME: 30.0 g

INJECTION VOLUME: 2 uL

FINAL VOLUME : 0.5 mL

DILUTION FACTOR : 1.0

PARAMETER	RESULTS	Q	QNT. LIMIT
Fluoranthene	ND		360
Benzidine	ND		1700
Pyrene	ND		360
Butylbenzylphthalate	ND		360
3,3'-Dichlorobenzidine	ND		720
Benzo(a)anthracene	ND		360
bis(2-Ethylhexyl)phthalate	ND		360
Chrysene	ND		360
Di-n-octyl phthalate	ND		360
Benzo(b)fluoranthene	ND		360
Benzo(k)fluoranthene	ND		360
Benzo(a)pyrene	ND		360
Indeno(1,2,3-cd)pyrene	ND		360
Dibenz(a,h)anthracene	ND		360
Benzo(ghi)perylene	ND		360
Benzyl alcohol	ND		360
4-Chloroaniline	ND		360
2-Methylnaphthalene	ND		360
2-Nitroaniline	ND		1700
3-Nitroaniline	ND		1700
Dibenzofuran	ND		360
4-Nitroaniline	ND		1700

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

B = ALSO PRESENT IN BLANK

X = EXCEEDS CALIBRATION LIMIT

N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE

A = PHENOMENON OF METHODOLOGY WITH ACID PRESERVATION

TEST CODE :SAPBNA1

JOB NUMBER :9500.340

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NM-9000 RFI SITE 3 - NFAFB AFRES
 RESULTS IN DRY WEIGHT %SOLIDS : 92 %
 TEST NAME : ACID PHENOL UNITS : UG/KG
 SAMPLE ID LAB : EE-95-21743 MATRIX : SOLID
 SAMPLE ID CLIENT: NM9-MW03-6D-SM-021595 DATE RECEIVED : 02/15/95
 SDG # : 21743 DATE EXTRACTED: 02/20/95
 DATE ANALYZED : 03/02/95

SAMPLE VOLUME: 30.0 g
FINAL VOLUME : 0.5 mL

INJECTION VOLUME: 2 uL
DILUTION FACTOR : 1.0

PARAMETER	RESULTS	Q	QNT. LIMIT
Phenol	ND		360
2-Chlorophenol	ND		360
2-Nitrophenol	ND		360
2,4-Dimethylphenol	ND		360
2,4-Dichlorophenol	ND		360
4-Chloro-3-methylphenol	ND		360
2,4,6-Trichlorophenol	ND		360
2,4-Dinitrophenol	ND		1700
4-Nitrophenol	ND		1700
4,6-Dinitro-2-methylphenol	ND		1700
Pentachlorophenol	ND		1700
2-Methylphenol	ND		360
4-Methylphenol	ND		360
Benzoic acid	ND		1700
2,4,5-Trichlorophenol	ND		1700

 QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 X = EXCEEDS CALIBRATION LIMIT
 N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE
 A = PHENOMENON OF METHODOLOGY WITH ACID PRESERVATION

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF SOIL ANALYSIS FOR TENTATIVELY IDENTIFIED
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS

(all results in ug/kg)

SAMPLE VOLUME: 30.0 g
FINAL VOLUME : 0.5 mL

DATE RECEIVED : 02/15/95
DATE EXTRACTED: 02/20/95
DATE ANALYZED : 03/02/95
INJECTION VOLUME: 2 uL
DILUTION FACTOR: 1.0

% SOLIDS : 92%

9500.340

E & E Lab.
No. 95- 21743

Analysis
Date 02/03/95

Compound Sample Identity NM9-MW03-6D-SM-021595

Aldol condensation product			
cas #123422 (4.83)**	49000	B	
1,1,2,2-Tetrachloroethane			
cas # 79345 (6.24)	140		
Unknown (6.35)	1100	B	
Unknown (7.23)	420	B	
Unknown (8.36)	270		
1-Phenyl-ethanone (10.06)	91		
Unknown Hydrocarbon (30.08)	91		
Unknown (31.11)	72		

Total Hydrocarbons Present as m/z 57 - 730

** Values are approximate retention times, in minutes.

B = Present in associated method blank

TEST CODE :WBNBNA1

JOB NUMBER :9500.340

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NM-9000 RFI SITE 3 - NFAFB AFRES
 TEST NAME : BASE NEUTRAL UNITS : UG/L
 SAMPLE ID LAB : EE-95-21744 MATRIX: WATER
 SAMPLE ID CLIENT: NM9-MW03-6D-WR-021595 DATE RECEIVED : 02/15/95
 SDG # : 21743 DATE EXTRACTED: 02/20/95
 DATE ANALYZED : 03/01/95
 SAMPLE VOLUME: 1000 mL INJECTION VOLUME: 2 uL
 FINAL VOLUME : 1.0 mL DILUTION FACTOR : 1.0

PARAMETER	RESULTS	Q.	QNT. LIMIT
bis(2-chloroethyl) ether	ND		10
1,3-Dichlorobenzene	ND		10
1,4-Dichlorobenzene	ND		10
1,2-Dichlorobenzene	ND		10
bis(2-Chloroisopropyl) ether	ND		10
N-nitrosodipropylamine	ND		10
Hexachloroethane	ND		10
Nitrobenzene	ND		10
Isophorone	ND		10
bis(2-Chloroethoxy)methane	ND		10
1,2,4-Trichlorobenzene	ND		10
Naphthalene	ND		10
Hexachlorobutadiene	ND		10
Hexachlorocyclopentadiene	ND		10
2-Chloronaphthalene	ND		10
Dimethyl phthalate	ND		10
Acenaphthylene	ND		10
Fluorene	ND		10
Acenaphthene	ND		10
2,4-Dinitrotoluene	ND		10
2,6-Dinitrotoluene	ND		10
Diethyl phthalate	ND		10
4-Chlorophenyl phenyl ether	ND		10
N-nitrosodiphenylamine	ND		10
4-Bromophenyl phenyl ether	ND		10
Hexachlorobenzene	ND		10
Phenanthrene	ND		10
Anthracene	ND		10
Di-n-butyl phthalate	ND		10
Fluoranthene	ND		10
Benzidine	ND		50
Pyrene	ND		10

 QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE
 A = PHENOMENON OF METHODOLOGY WITH ACID PRESERVATION

TEST CODE :WBNBNA1

JOB NUMBER :9500.340

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NM-9000 RFI SITE 3 - NFAFB AFRES
 TEST NAME : BASE NEUTRAL UNITS : UG/L
 SAMPLE ID LAB : EE-95-21744 MATRIX: WATER
 SAMPLE ID CLIENT: NM9-MW03-6D-WR-021595 DATE RECEIVED : 02/15/95
 SDG # : 21743 DATE EXTRACTED: 02/20/95
 DATE ANALYZED : 03/01/95
 SAMPLE VOLUME: 1000 µL INJECTION VOLUME: 2 µL
 FINAL VOLUME : 1.0 mL DILUTION FACTOR : 1.0

PARAMETER	RESULTS	Q	QNT. LIMIT
Butylbenzylphthalate	ND		10
3,3'-Dichlorobenzidine	ND		20
Benzo(a)anthracene	ND		10
bis(2-Ethylhexyl)phthalate	ND		10
Chrysene	ND		10
Di-n-octyl phthalate	ND		10
Benzo(b)fluoranthene	ND		10
Benzo(k)fluoranthene	ND		10
Benzo(a)pyrene	ND		10
Indeno(1,2,3-cd)pyrene	ND		10
Dibenz(a,h)anthracene	ND		10
Benzo(ghi)perylene	ND		10
Benzyl alcohol	ND		10
4-Chloroaniline	ND		10
2-Methylnaphthalene	ND		10
2-Nitroaniline	ND		50
3-Nitroaniline	ND		50
Dibenzofuran	ND		10
4-Nitroaniline	ND		50

 QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE
 A = PHENOMENON OF METHODOLOGY WITH ACID PRESERVATION

TEST CODE :WAPBNA1

JOB NUMBER :9500.340

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NM-9000 RFI SITE 3 - NFAFB AFRES
 TEST NAME : ACID PHENOL UNITS : UG/L
 SAMPLE ID LAB : EE-95-21744 MATRIX: WATER
 SAMPLE ID CLIENT: NM9-MW03-6D-WR-021595 DATE RECEIVED : 02/15/95
 SDG # : 21743 DATE EXTRACTED: 02/20/95
 DATE ANALYZED : 03/01/95
 SAMPLE VOLUME: 1000 mL INJECTION VOLUME: 2 uL
 FINAL VOLUME : 10 mL DILUTION FACTOR : 1.0

PARAMETER	RESULTS	Q	QNT. LIMIT
Phenol	ND		10
2-Chlorophenol	ND		10
2-Nitrophenol	ND		10
2,4-Dimethylphenol	ND		10
2,4-Dichlorophenol	ND		10
4-Chloro-3-methylphenol	ND		10
2,4,6-Trichlorophenol	ND		10
2,4-Dinitrophenol	ND		50
4-Nitrophenol	ND		50
4,6-Dinitro-2-methylphenol	ND		50
Pentachlorophenol	ND		50
2-Methylphenol	ND		10
4-Methylphenol	ND		10
Benzoic acid	ND		50
2,4,5-Trichlorophenol	ND		50

 QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE
 A = PHENOMENON OF METHODOLOGY WITH ACID PRESERVATION

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF WATER ANALYSIS FOR TENTATIVELY IDENTIFIED
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS

(all results in ug/L)

SAMPLE VOLUME: 1000 mL
FINAL VOLUME (BN): 1.0 mL
FINAL VOLUME (AP): 10 mL

DATE RECEIVED : 02/15/95
DATE EXTRACTED: 02/20/95
DATE ANALYZED : 03/01/95
INJECTION VOLUME: 2 uL
DILUTION FACTOR: 1.0

9500.340

E & E Lab.
No. 95- 21744

Analysis
Date 03/01/95

Compound Sample
Identity NM9-MW03-6D-WR-021595

Aldol Condensation
Product (4.40)** 30 B

Total Hydrocarbons Present as m/z 57 - 5

** Value is approximate retention time, in minutes.

(BN) = BASE NEUTRAL

(AP) = ACID PHENOL

TEST CODE :SBNBNA1

JOB NUMBER :9500.353

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NM-9000 RFI SITE 3 - NFAFB AFRES
 RESULTS IN DRY WEIGHT %SOLIDS : 79 %
 TEST NAME : BASE NEUTRAL UNITS : UG/KG
 SAMPLE ID LAB : EE-95-21809 MATRIX : SOLID
 SAMPLE ID CLIENT: NM9-MW03-IE-SO-02-16-95 DATE RECEIVED : 02/16/95
 SDG # : 21743 DATE EXTRACTED: 02/20/95
 DATE ANALYZED : 03/01/95

SAMPLE VOLUME: 30.0 g
FINAL VOLUME : 0.5 mL

INJECTION VOLUME: 2 uL
DILUTION FACTOR : 1.0

PARAMETER	RESULTS	Q	QNT. LIMIT
bis(2-chloroethyl) ether	ND		420
1,3-Dichlorobenzene	ND		420
1,4-Dichlorobenzene	ND		420
1,2-Dichlorobenzene	ND		420
bis(2-Chloroisopropyl) ether	ND		420
N-nitrosodipropylamine	ND		420
Hexachloroethane	ND		420
Nitrobenzene	ND		420
Isophorone	ND		420
bis(2-Chloroethoxy) methane	ND		420
1,2,4-Trichlorobenzene	ND		420
Naphthalene	ND		420
Hexachlorobutadiene	ND		420
Hexachlorocyclopentadiene	ND		420
2-Chloronaphthalene	ND		420
Dimethyl phthalate	ND		420
Acenaphthylene	ND		420
Fluorene	ND		420
Acenaphthene	ND		420
2,4-Dinitrotoluene	ND		420
2,6-Dinitrotoluene	ND		420
Diethyl phthalate	3700	X	420
4-Chlorophenyl phenyl ether	ND		420
N-nitrosodiphenylamine	ND		420
4-Bromophenyl phenyl ether	ND		420
Hexachlorobenzene	ND		420
Phenanthrene	ND		420
Anthracene	ND		420
Di-n-butyl phthalate	99	J	420

 QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 X = EXCEEDS CALIBRATION LIMIT
 N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE
 A = PHENOMENON OF METHODOLOGY WITH ACID PRESERVATION

TEST CODE :SBNBNA1

JOB NUMBER :9500.353

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NM-9000 RFI SITE 3 - NFAPB APRES

RESULTS IN DRY WEIGHT	%SOLIDS : 79 %
TEST NAME : BASE NEUTRAL	UNITS : UG/KG
SAMPLE ID LAB : EE-95-21809	MATRIX : SOLID
SAMPLE ID CLIENT: NM9-MW03-IE-SO-02-16-95	DATE RECEIVED : 02/16/95
SDG # : 21743	DATE EXTRACTED: 02/20/95
	DATE ANALYZED : 03/01/95

SAMPLE VOLUME: 30.0 g

INJECTION VOLUME: 2 uL

FINAL VOLUME : 0.5 mL

DILUTION FACTOR : 1.0

PARAMETER	RESULTS	Q	QNT. LIMIT
-----	-----	-	-----
Fluoranthene	ND		420
Benzidine	ND		2000
Pyrene	ND		420
Butylbenzylphthalate	36	J	420
3,3'-Dichlorobenzidine	ND		840
Benzo(a)anthracene	ND		420
bis(2-Ethylhexyl)phthalate	240	JB	420
Chrysene	ND		420
Di-n-octyl phthalate	ND		420
Benzo(b)fluoranthene	ND		420
Benzo(k)fluoranthene	ND		420
Benzo(a)pyrene	ND		420
Indeno(1,2,3-cd)pyrene	ND		420
Dibenz(a,h)anthracene	ND		420
Benzo(ghi)perylene	ND		420
Benzyl alcohol	ND		420
4-Chloroaniline	ND		420
2-Methylnaphthalene	ND		420
2-Nitroaniline	ND		2000
3-Nitroaniline	ND		2000
Dibenzofuran	ND		420
4-Nitroaniline	ND		2000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
X = EXCEEDS CALIBRATION LIMIT
N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE
A = PHENOMENON OF METHODOLOGY WITH ACID PRESERVATION

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TEST CODE :SAPBNA1

JOB NUMBER :9500.353

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NM-9000 RFI SITE 3 - NFAFB AFRES
 RESULTS IN DRY WEIGHT %SOLIDS : 79 %
 TEST NAME : ACID PHENOL UNITS : UG/KG
 SAMPLE ID LAB : EE-95-21809 MATRIX : SOLID
 SAMPLE ID CLIENT: NM9-MW03-IE-SO-02-16-95 DATE RECEIVED : 02/16/95
 SDG # : 21743 DATE EXTRACTED: 02/20/95
 DATE ANALYZED : 03/01/95

SAMPLE VOLUME: 30.0 g
FINAL VOLUME : 0.5 mL

INJECTION VOLUME: 2 uL
DILUTION FACTOR : 1.0

PARAMETER	RESULTS	Q	QNT. LIMIT
Phenol	ND		420
2-Chlorophenol	ND		420
2-Nitrophenol	ND		420
2,4-Dimethylphenol	ND		420
2,4-Dichlorophenol	ND		420
4-Chloro-3-methylphenol	ND		420
2,4,6-Trichlorophenol	ND		420
2,4-Dinitrophenol	ND		2000
4-Nitrophenol	ND		2000
4,6-Dinitro-2-methylphenol	ND		2000
Pentachlorophenol	ND		2000
2-Methylphenol	ND		420
4-Methylphenol	ND		420
Benzoic acid	ND		2000
2,4,5-Trichlorophenol	ND		2000

 QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 X = EXCEEDS CALIBRATION LIMIT
 N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE
 A = PHENOMENON OF METHODOLOGY WITH ACID PRESERVATION

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF SOIL ANALYSIS FOR TENTATIVELY IDENTIFIED
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS

(all results in ug/kg)

SAMPLE VOLUME: 30.0 g
FINAL VOLUME : 0.5 mL

DATE RECEIVED : 02/16/95
DATE EXTRACTED: 02/20/95
DATE ANALYZED : 03/01/95
INJECTION VOLUME: 2 uL
DILUTION FACTOR : 1.0

% SOLIDS : 79%

9500.353

E & E Lab.
No. 95- 21809

Analysis
Date 03/01/95

Sample
Compound
Identity NM9-MW03-IE-SO-02-16-95

Unknown hydrocarbon (4.27)**	270	
Aldol condensation product (5.06)	97000	B
Unknown (5.22)	100	
Unknown (6.37)	130	
Unknown (6.50)	2300	B
Unknown (6.86)	210	
Unknown (7.35)	910	B
Unknown (8.47)	1100	
Unknown (9.78)	700	
Unknown hydrocarbon (29.08)	300	
Unknown hydrocarbon (30.18)	270	
Unknown hydrocarbon (32.22)	270	
Unknown hydrocarbon (33.19)	1100	
Unknown oxygenated hydrocarbon (34.48)	230	
Unknown hydrocarbon (34.65)	400	
Unknown hydrocarbon (36.90)	300	
Unknown (44.10)	300	

Total Hydrocarbons Present as m/z 57 - 1200

** Values are approximate retention times, in minutes.

B = Present in associated method blank
recycled paper

F-46

ecology and environment

TEST CODE :SBNBNA1

JOB NUMBER :9500.353

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NM-9000 RFI SITE 3 - NFAFB AFRES
 RESULTS IN DRY WEIGHT %SOLIDS : 79 %
 TEST NAME : BASE NEUTRAL UNITS : UG/KG
 SAMPLE ID LAB : EE-95-21809 (DL) MATRIX : SOLID
 SAMPLE ID CLIENT: NM9-MW03-IE-SO-02-16-95 DATE RECEIVED : 02/16/95
 SDG # : 21743 DATE EXTRACTED: 02/20/95
 DATE ANALYZED : 03/03/95

SAMPLE VOLUME: 30.0 g
FINAL VOLUME : 0.5 mL

INJECTION VOLUME: 2 uL
DILUTION FACTOR : 2.0

PARAMETER	RESULTS	Q	QNT. LIMIT
bis(2-chloroethyl)ether	ND		840
1,3-Dichlorobenzene	ND		840
1,4-Dichlorobenzene	ND		840
1,2-Dichlorobenzene	ND		840
bis(2-Chloroisopropyl)ether	ND		840
N-nitrosodipropylamine	ND		840
Hexachloroethane	ND		840
Nitrobenzene	ND		840
Isophorone	ND		840
bis(2-Chloroethoxy)methane	ND		840
1,2,4-Trichlorobenzene	ND		840
Naphthalene	ND		840
Hexachlorobutadiene	ND		840
Hexachlorocyclopentadiene	ND		840
2-Chloronaphthalene	ND		840
Dimethyl phthalate	ND		840
Acenaphthylene	ND		840
Fluorene	ND		840
Acenaphthene	ND		840
2,4-Dinitrotoluene	ND		840
2,6-Dinitrotoluene	ND		840
Diethyl phthalate	3000		840
4-Chlorophenyl phenyl ether	ND		840
N-nitrosodiphenylamine	ND		840
4-Bromophenyl phenyl ether	ND		840
Hexachlorobenzene	ND		840
Phenanthrene	ND		840
Anthracene	ND		840
Di-n-butyl phthalate	77	J	840

 QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 X = EXCEEDS CALIBRATION LIMIT (DL) = DILUTION
 N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE
 A = PHENOMENON OF METHODOLOGY WITH ACID PRESERVATION

TEST CODE :SBNBNA1

JOB NUMBER :9500.353

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NM-9000 RFI SITE 3 - NFAFB AFRES
 RESULTS IN DRY WEIGHT %SOLIDS : 79 %
 TEST NAME : BASE NEUTRAL UNITS : UG/KG
 SAMPLE ID LAB : EE-95-21809 (DL) MATRIX : SOLID
 SAMPLE ID CLIENT: NM9-MW03-IE-SO-02-16-95 DATE RECEIVED : 02/16/95
 SDG # : 21743 DATE EXTRACTED: 02/20/95
 DATE ANALYZED : 03/03/95

SAMPLE VOLUME: 30.0 g
FINAL VOLUME : 0.5 mL

INJECTION VOLUME: 2 uL
DILUTION FACTOR : 2.0

PARAMETER	RESULTS	Q	QNT. LIMIT
Fluoranthene	ND		840
Benzidine	ND		4000
Pyrene	ND		840
Butylbenzylphthalate	ND		840
3,3'-Dichlorobenzidine	ND		1700
Benzo(a)anthracene	ND		840
bis(2-Ethylhexyl)phthalate	150	JB	840
Chrysene	ND		840
Di-n-octyl phthalate	ND		840
Benzo(b)fluoranthene	ND		840
Benzo(k)fluoranthene	ND		840
Benzo(a)pyrene	ND		840
Indeno(1,2,3-cd)pyrene	ND		840
Dibenz(a,h)anthracene	ND		840
Benzo(ghi)perylene	ND		840
Benzyl alcohol	ND		840
4-Chloroaniline	ND		840
2-Methylnaphthalene	ND		840
2-Nitroaniline	ND		4000
3-Nitroaniline	ND		4000
Dibenzofuran	ND		840
4-Nitroaniline	ND		4000

 QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 X = EXCEEDS CALIBRATION LIMIT (DL) = DILUTION
 N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE
 A = PHENOMENON OF METHODOLOGY WITH ACID PRESERVATION

TEST CODE :SAPBNA1

JOB NUMBER :9500.353

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NM-9000 RFI SITE 3 - NFAFB AFRES

RESULTS IN DRY WEIGHT

%SOLIDS : 79 %

TEST NAME : ACID PHENOL

UNITS : UG/KG

SAMPLE ID LAB : EE-95-21809 (DL)

MATRIX : SOLID

SAMPLE ID CLIENT: NM9-MW03-IE-SO-02-16-95

DATE RECEIVED : 02/16/95

SDG # : 21743

DATE EXTRACTED: 02/20/95

DATE ANALYZED : 03/03/95

SAMPLE VOLUME: 30.0 g

INJECTION VOLUME: 2 uL

FINAL VOLUME : 0.5 mL

DILUTION FACTOR : 2.0

PARAMETER	RESULTS	Q	QNT. LIMIT
Phenol	ND		840
2-Chlorophenol	ND		840
2-Nitrophenol	ND		840
2,4-Dimethylphenol	ND		840
2,4-Dichlorophenol	ND		840
4-Chloro-3-methylphenol	ND		840
2,4,6-Trichlorophenol	ND		840
2,4-Dinitrophenol	ND		4000
4-Nitrophenol	ND		4000
4,6-Dinitro-2-methylphenol	ND		4000
Pentachlorophenol	ND		4000
2-Methylphenol	ND		840
4-Methylphenol	ND		840
Benzoic acid	ND		4000
2,4,5-Trichlorophenol	ND		4000

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

B = ALSO PRESENT IN BLANK

X = EXCEEDS CALIBRATION LIMIT

(DL) = DILUTED OUT

N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE

A = PHENOMENON OF METHODOLOGY WITH ACID PRESERVATION

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF SOIL ANALYSIS FOR TENTATIVELY IDENTIFIED
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS

(all results in ug/kg)

SAMPLE VOLUME: 30.0 g
FINAL VOLUME : 0.5 mL

% SOLIDS : 79%

DATE RECEIVED : 02/16/95
DATE EXTRACTED: 02/20/95
DATE ANALYZED : 03/06/95
INJECTION VOLUME: 2 uL
DILUTION FACTOR : 2.0

9500.353

E & E Lab.
No. 95- 21809 (DL)

Analysis
Date 03/06/95

Sample
Compound
Identity NM9-MW03-IE-SO-02-16-95

Aldol condensation product
cas #123422 (4.80)** 40000 B
Unknown (6.32) 1200 B
Unknown (7.19) 490 B
Unknown (8.32) 550
Unknown (9.64) 530
Unknown hydrocarbon (28.94) 170
Unknown hydrocarbon (30.02) 130
Unknown hydrocarbon (32.06) 100
Unknown hydrocarbon (33.03) 630
Unknown hydrocarbon (36.72) 130

Total Hydrocarbons Present as m/z 57 - 1300

** Values are approximate retention times, in minutes.

B = Present in associated method blank

(DL) = DILUTION

TEST CODE :WBNBNA1

JOB NUMBER :9500.353

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NM-9000 RFI SITE 3 - NFAFB AFRES
 TEST NAME : BASE NEUTRAL UNITS : UG/L
 SAMPLE ID LAB : EE-95-21810 MATRIX: WATER
 SAMPLE ID CLIENT: NM9-MW03-IE-WR-02-16-95 DATE RECEIVED : 02/16/95
 SDG # : 21743 DATE EXTRACTED: 02/20/95
 DATE ANALYZED : 02/24/95
 SAMPLE VOLUME: 1000 mL INJECTION VOLUME: 2 uL
 FINAL VOLUME : 1.0 mL DILUTION FACTOR : 1.0

PARAMETER	RESULTS	Q	QNT. LIMIT
bis(2-chloroethyl) ether	ND		10
1,3-Dichlorobenzene	ND		10
1,4-Dichlorobenzene	ND		10
1,2-Dichlorobenzene	ND		10
bis(2-Chloroisopropyl) ether	ND		10
N-nitrosodipropylamine	ND		10
Hexachloroethane	ND		10
Nitrobenzene	ND		10
Isophorone	ND		10
bis(2-Chloroethoxy) methane	ND		10
1,2,4-Trichlorobenzene	ND		10
Naphthalene	ND		10
Hexachlorobutadiene	ND		10
Hexachlorocyclopentadiene	ND		10
2-Chloronaphthalene	ND		10
Dimethyl phthalate	ND		10
Acenaphthylene	ND		10
Fluorene	ND		10
Acenaphthene	ND		10
2,4-Dinitrotoluene	ND		10
2,6-Dinitrotoluene	ND		10
Diethyl phthalate	ND		10
4-Chlorophenyl phenyl ether	ND		10
N-nitrosodiphenylamine	ND		10
4-Bromophenyl phenyl ether	ND		10
Hexachlorobenzene	ND		10
Phenanthrene	ND		10
Anthracene	ND		10
Di-n-butyl phthalate	ND		10
Fluoranthene	ND		10
Benzidine	ND		50
Pyrene	ND		10

 QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE
 A = PHENOMENON OF METHODOLOGY WITH ACID PRESERVATION

TEST CODE : WBNBN1

JOB NUMBER : 9500.353

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NM-9000 RFI SITE 3 - NFAFB AFRES
 TEST NAME : BASE NEUTRAL UNITS : UG/L
 SAMPLE ID LAB : EE-95-21810 MATRIX: WATER
 SAMPLE ID CLIENT: NM9-MW03-IE-WR-02-16-95 DATE RECEIVED : 02/16/95
 SDG # : 21743 DATE EXTRACTED: 02/20/95
 DATE ANALYZED : 02/24/95
 SAMPLE VOLUME: 1000 mL INJECTION VOLUME: 2 uL
 FINAL VOLUME : 1.0 mL DILUTION FACTOR : 1.0

PARAMETER	RESULTS	Q	QNT. LIMIT
Butylbenzylphthalate	ND		10
3,3'-Dichlorobenzidine	ND		20
Benzo(a)anthracene	ND		10
bis(2-Ethylhexyl)phthalate	ND		10
Chrysene	ND		10
Di-n-octyl phthalate	ND		10
Benzo(b)fluoranthene	ND		10
Benzo(k)fluoranthene	ND		10
Benzo(a)pyrene	ND		10
Indeno(1,2,3-cd)pyrene	ND		10
Dibenz(a,h)anthracene	ND		10
Benzo(ghi)perylene	ND		10
Benzyl alcohol	ND		10
4-Chloroaniline	ND		10
2-Methylnaphthalene	ND		10
2-Nitroaniline	ND		50
3-Nitroaniline	ND		50
Dibenzofuran	ND		10
4-Nitroaniline	ND		50

 QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE
 A = PHENOMENON OF METHODOLOGY WITH ACID PRESERVATION

TEST CODE :WAPBNA1

JOB NUMBER :9500.353

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NM-9000 RFI SITE 3 - NFAFB AFRES

TEST NAME : ACID PHENOL

UNITS : UG/L

SAMPLE ID LAB : EE-95-21810

MATRIX: WATER

SAMPLE ID CLIENT: NM9-MW03-IE-WR-02-16-95

DATE RECEIVED : 02/16/95

SDG # : 21743

DATE EXTRACTED: 02/20/95

DATE ANALYZED : 02/24/95

SAMPLE VOLUME: 1000 mL

INJECTION VOLUME: 2 uL

FINAL VOLUME : 10 mL

DILUTION FACTOR : 1.0

PARAMETER	RESULTS	Q	QNT. LIMIT
Phenol	ND		10
2-Chlorophenol	ND		10
2-Nitrophenol	ND		10
2,4-Dimethylphenol	ND		10
2,4-Dichlorophenol	ND		10
4-Chloro-3-methylphenol	ND		10
2,4,6-Trichlorophenol	ND		10
2,4-Dinitrophenol	ND		50
4-Nitrophenol	ND		50
4,6-Dinitro-2-methylphenol	ND		50
Pentachlorophenol	ND		50
2-Methylphenol	ND		10
4-Methylphenol	ND		10
Benzoic acid	ND		50
2,4,5-Trichlorophenol	ND		50

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

B = ALSO PRESENT IN BLANK

N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE

A = PHENOMENON OF METHODOLOGY WITH ACID PRESERVATION

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF WATER ANALYSIS FOR TENTATIVELY IDENTIFIED
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS

(all results in ug/L)

SAMPLE VOLUME: 1000 mL
FINAL VOLUME (BN): 1.0 mL
FINAL VOLUME (AP): 10 mL

DATE RECEIVED : 02/16/95
DATE EXTRACTED: 02/20/95
DATE ANALYZED : 02/24/95
INJECTION VOLUME: 2 uL
DILUTION FACTOR : 1.0

9500.353

E & E Lab.
No. 95- 21810

Analysis
Date 02/24/95

Compound Sample
Identity NM9-MW03-IE-WR-02-16-95

Aldol Condensation
Product (4.46)** 22.0 B
Unknown Oxygenated
Hydrocarbon (12.06) 23.0

Total Hydrocarbons Present as m/z 57 - 10

** Values are approximate retention times, in minutes.

(BN) = BASE NEUTRAL

(AP) = ACID PHENOL

METALS SECTION

JOB NUMBER :9500.340

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NM-9000 RFI SITE 3 - NFAFB AFRES

RESULTS IN DRY WEIGHT

%SOLIDS : 92 %

SAMPLE ID LAB : EE-95-21743

MATRIX: SOLID

SAMPLE ID CLIENT: NM9-MW03-6D-SM-021595

DATE RECEIVED : 02/15/95

SDG # : 21743

DATE EXTRACTED: 02/21/95

DATE ANALYZED : 02/23/95

(Se) DATE ANALYZED: 02/24/95

(Tl) DATE ANALYZED: 02/24/95

(Hg) DATE ANALYZED: 02/22/95

SAMPLE VOLUME: 1.00 g

INJECTION VOLUME: NA

(Hg) SAMPLE VOLUME: 0.20 g

DILUTION FACTOR : 1.0

FINAL VOLUME : 100 mL

(Hg) FINAL VOLUME: NA

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Arsenic	1.8		0.54	MG/KG
Lead	12		0.54	MG/KG
Antimony	ND		6.5	MG/KG
Beryllium	ND		0.54	MG/KG
Cadmium	1.5		0.54	MG/KG
Chromium Total	3.5		1.1	MG/KG
Copper	10		2.2	MG/KG
Nickel	5.8		2.2	MG/KG
Silver	ND		1.1	MG/KG
Zinc	250		1.1	MG/KG
Selenium	ND		0.54	MG/KG
Thallium	ND		0.54	MG/KG
Mercury	ND		0.11	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

NA = NOT APPLICABLE

JOB NUMBER :9500.340

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NM-9000 RFI SITE 3 - NFAFB AFRES
 SAMPLE ID LAB :EE-95-21744 MATRIX: WATER
 SAMPLE ID CLIENT: NM9-MW03-6D-WR-021595 DATE RECEIVED : 02/15/95
 SDG # : 21743 DATE EXTRACTED: 02/27/95
 DATE ANALYZED : 02/28/95
 (Hg) DATE ANALYZED: 02/16/95

SAMPLE VOLUME: 100 mL
 (Hg) SAMPLE VOLUME: 100 mL
 FINAL VOLUME : 100 mL
 (Hg) FINAL VOLUME: NA

INJECTION VOLUME: NA
 DILUTION FACTOR : 1.0

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Arsenic	ND		5.0	UG/L
Lead	ND		5.0	UG/L
Antimony	ND		60	UG/L
Beryllium	ND		5.0	UG/L
Cadmium	ND		5.0	UG/L
Chromium Total	ND		10	UG/L
Copper	150		20	UG/L
Nickel	ND		20	UG/L
Silver	ND		10	UG/L
Zinc	15		10	UG/L
Selenium	ND		5.0	UG/L
Thallium	ND		5.0	UG/L
Mercury	ND		0.20	UG/L

 QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE NA = NOT APPLICABLE

METALS SECTION

JOB NUMBER : 9500.353

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NM-9000 RFI SITE 3 - NFAFB AFRES
 RESULTS IN DRY WEIGHT %SOLIDS : 79 %
 SAMPLE ID LAB : EE-95-21809 MATRIX: SOLID
 SAMPLE ID CLIENT: NM9-MW03-IE-SO-02-16-95 DATE RECEIVED : 02/16/95
 SDG # : 21743 DATE EXTRACTED: 02/21/95
 DATE ANALYZED : 02/23/95
 (As) DATE ANALYZED: 02/24/95
 (Hg) DATE ANALYZED: 02/22/95

SAMPLE VOLUME: 1.00 g INJECTION VOLUME: NA
 (Hg) SAMPLE VOLUME: 0.20 g DILUTION FACTOR : 1.0
 FINAL VOLUME : 100 mL
 (Hg) SAMPLE VOLUME: NA

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Arsenic	1.1		0.63	MG/KG
Lead	13		0.63	MG/KG
Antimony	ND		7.6	MG/KG
Beryllium	ND		0.63	MG/KG
Cadmium	1.7		0.63	MG/KG
Chromium Total	11		1.3	MG/KG
Copper	4.1		2.5	MG/KG
Nickel	11		2.5	MG/KG
Silver	ND		1.3	MG/KG
Zinc	220		1.3	MG/KG
Selenium	ND		0.63	MG/KG
Thallium	ND		0.63	MG/KG
Mercury	ND		0.13	MG/KG

 QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE NA = NOT APPLICABLE

JOB NUMBER :9500.353

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NM-9000 RFI SITE 3 - NFAFB AFRES
SAMPLE ID LAB :EE-95-21810 MATRIX: WATER
SAMPLE ID CLIENT: NM9-MW03-IE-WR-02-16-95 DATE RECEIVED : 02/16/95
SDG # : 21743 DATE EXTRACTED: 02/27/95
DATE ANALYZED : 02/28/95
(Hg) DATE ANALYZED: 02/17/95

SAMPLE VOLUME: 100 mL
(Hg) SAMPLE VOLUME: 100 mL
FINAL VOLUME : 100 mL
(Hg) FINAL VOLUME: NA

INJECTION VOLUME: NA
DILUTION FACTOR : 1.0

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Arsenic	ND		5.0	UG/L
Lead	ND		5.0	UG/L
Antimony	ND		60	UG/L
Beryllium	ND		5.0	UG/L
Cadmium	ND		5.0	UG/L
Chromium Total	19		10	UG/L
Copper	260		20	UG/L
Nickel	20		20	UG/L
Silver	ND		10	UG/L
Zinc	49		10	UG/L
Selenium	ND		5.0	UG/L
Thallium	ND		5.0	UG/L
Mercury	ND		0.20	UG/L

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE NA = NOT APPLICABLE

TEST CODE :SPETHY1

JOB NUMBER :9500.340

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NM-9000 RFI SITE 3 - NFAFB AFRES

RESULTS IN DRY WEIGHT
UNITS : MG/KG

TEST NAME : TRPH

PARAMETER : Petroleum Hydrocarbons

DATE RECEIVED : 02/15/95

DATE EXTRACTED: NA

DATE ANALYZED : 03/03/95

SAMPLE VOLUME : 10.150 g

DILUTION FACTOR: 1.0

SAMPLE ID	RESULTS	Q	QNT. LIMIT
EE-95-21743			
NM9-MW03-6D-SM-021595	ND		22

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE NA = NOT APPLICABLE
 NA = NOT APPLICABLE

TEST CODE : WPETHY1

JOB NUMBER : 9500.340

ELAP ID : 10486

Ecology and Environment, Inc.

CLIENT : NM-9000 RFI SITE 3 - NFAFB AFRES

TEST NAME : TRPH

UNITS: MG/L

PARAMETER : Petroleum Hydrocarbons

SAMPLE VOLUME: 1000 ML

SAMPLE ID	RESULTS	Q	QNT. LIMIT	DILUTION FACTOR	DATE RECEIVED	DATE ANALYZED
EE-95-21744						
NM9-MW03-6D-WR-021595	ND		1.0	1.00	02/15/95	03/07/95

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

NA = NOT APPLICABLE

TEST CODE :SPETHY1

JOB NUMBER :9500.353

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NM-9000 RFI SITE 3 - NFAFB AFRES

TEST NAME : TRPH
PARAMETER : Petroleum Hydrocarbons

RESULTS IN DRY WEIGHT
UNITS : MG/KG
DATE RECEIVED: 02/16/95
DATE EXTRACTED: NA
DATE ANALYZED: 03/03/95
SAMPLE VOLUME: 10.050 g
DILUTION FACTOR: 1.0

SAMPLE ID	RESULTS	Q	QNT. LIMIT
EE-95-21809			
NM9-MW03-IE-SO-02-16-95	ND		25

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE
 NA = NOT APPLICABLE

TEST CODE : WPETHY1

JOB NUMBER : 9500.353

ELAP ID : 10486

Ecology and Environment, Inc.

CLIENT : NM-9000 RFI SITE 3 - NFAFB APRES

TEST NAME : TRPH UNITS: MG/L

PARAMETER : Petroleum Hydrocarbons SAMPLE VOLUME: 1000 ML

SAMPLE ID	RESULTS	Q	QNT. LIMIT	DILUTION FACTOR	DATE RECEIVED	DATE ANALYZED
EE-95-21810						
NM9-MW03-IE-WR-02-16-95	ND		1.0	1.00	02/16/95	03/07/95

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE
 NA = NOT APPLICABLE

Case Narrative
NM-9000 Niagara Falls IAP-ARS Study
9500.562

All aqueous volatile samples were determined to be at a pH of 6 s.u.

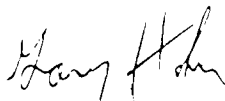
As requested, the extracted ion profile for m/z 57 over the entire mass chromatogram was obtained for each sample analyzed for volatile and semi-volatile compounds. A value representing the total hydrocarbons present as m/z 57 is reported for each sample. This value was obtained using the internal standard method. The total area of the m/z 57 peaks was compared to the total ion response of the first eluting internal standard assuming a response factor of 1. Since the m/z 57 is present in the internal standards added to all samples, a positive value will always be obtained.

Recovery of five of the semi-volatile surrogate compounds was low for sample SD3-1-SO. The sample was reextracted 7 days after hold time had expired. It was reanalyzed with acceptable surrogate recoveries. Results from both analyses are included in this report.

Recovery of 1,4-dichlorobenzene, n-nitroso-di-n-propylamine, and 1,2,4-trichlorobenzene was slightly low in the water matrix laboratory control sample (LCS). Recovery of these compounds in the LCS duplicate was also low but was within acceptable limits. No corrective action was taken.

Metals soil matrix spike and duplicate analyses was repeated for all elements which had recovery or RPD values outside of acceptable limits. Similar results were obtained for the reanalyses. Sample non-homogeneity is indicated. Results for both spike and duplicate analyses are included in this report.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.



Gary Hahn - Manager
Analytical Services Center
April 24, 1995



ecology and environment, inc.

388 PLEASANTVIEW DRIVE, LANCASTER, NEW YORK 14086, TEL. 716/684-8000
International Specialists in the Environment

9500.562
23123 - 23128

CHAIN-OF-CUSTODY RECORD

METALS PRESERVED w/ HNO₃ TO PH < 2
BOTTLE LOT #'S IN LOG

Project No.: NM9023		Project Name: NIAGARA FALLS IAP-ARS SITE 3 REI			Project Manager: M. SCHMITT		VOCs (METHOD 8240) BVA's (METHOD 8270) PAH's (METHOD 8270) % TO ORGANIC MATTER						REMARKS
Samplers: (Signatures) R. Watt		Field Team Leader: R. WATT											
STATION NUMBER	DATE	TIME	SAMPLE TYPE			EXPECTED COMPOUNDS (Concentration)*	STATION LOCATION SAMPLE NO.	NUMBER OF CONTAINERS	VOCs	BVA's	PAH's	% TO ORGANIC MATTER	
			COMP	GRAB	AIR								
SW-1	3-16	1020		X		VOCs - Low	NM9-SW3-1-WO-031695	5	X	X	X		SURFACE WATER #1
SW-2		0900		X			NM9-SW3-2-WO-031695	5	X	X	X		" #2
SW-3		0835		X			NM9-SW3-3-WO-031695	5	X	X	X		" #3
SD-1		1000		X			NM9-SD3-1-SO-031695	3#M	X	X	X	X	SEDIMENT #1
SD-2		0900		X			NM9-SD3-2-SM-031695	9	X	X	X	X	" #2 MS/MSD
SD-3		0835		X			NM9-SD3-3-SO-031695	3#M	X	X	X	X	" #3
													Per Rick Watt Note (pm 3) 4/15
Relinquished By: (Signature) M. Watt		Date/Time: 3/16/95/1520		Received By: (Signature)		Relinquished By: (Signature)		Date/Time:		Received By: (Signature)		Ship Via EBE	
Relinquished By: (Signature)		Date/Time:		Received By: (Signature)		Relinquished By: (Signature)		Date/Time		Received By: (Signature)		BI / Airbill Number N/A	
Relinquished By: (Signature)		Date/Time:		Received For Laboratory By: (Signature) R. Watt		Relinquished By: (Signature)		Date/Time		Received For Laboratory By: (Signature)		Date: 3-16-95	

F-65

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SD3-1-SO

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 562

SAS No.:

SDG No.: 23123

Matrix: (soil/water) SOIL

Lab Sample ID: 23126

Sample wt/vol: 5.2 (g/mL) G

Lab File ID: C0680

Level: (low/med) LOW

Date Received: 03/16/95

% Moisture: not dec. 27

Date Analyzed: 03/20/95

GC Column: VOCOL ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

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

Q

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	13	U
74-83-9	Bromomethane	13	U
75-01-4	Vinyl Chloride	13	U
75-00-3	Chloroethane	13	U
75-09-2	Methylene Chloride	1	J
67-64-1	Acetone	13	U
75-15-0	Carbon Disulfide	6	U
75-35-4	1,1-Dichloroethene	6	U
75-34-3	1,1-Dichloroethane	6	U
156-59-2	cis-1,2-Dichloroethene	6	U
156-60-5	trans-1,2-Dichloroethene	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
78-93-3	2-Butanone	13	U
71-55-6	1,1,1-Trichloroethane	3	J
56-23-5	Carbon Tetrachloride	6	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U
10061-02-6	trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-Pentanone	11	BJ
591-78-6	2-Hexanone	13	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
108-88-3	Toluene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U
1330-20-7	Xylene (total)	6	U

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF SOIL ANALYSIS FOR TENTATIVELY IDENTIFIED
VOLATILE ORGANIC COMPOUNDS BY GC/MS

CLIENT	: NM-9000 NIAGARA FALLS AFB	% SOLIDS	: 73 %
TEST NAME	: PURGEABLES	UNITS	: UG/KG
SAMPLE ID LAB	: EE-95-23126	MATRIX	: SOIL
SAMPLE ID CLIENT	: NM9-SD3-1-SO-031695	DATE RECEIVED	: 03/16/95
SDG #	: 23123	DATE EXTRACTED	: NA
		DATE ANALYZED	: 03/20/95
SAMPLE VOLUME	: 5.2 G	INJECTION VOLUME	: NA
FINAL VOLUME	: NA	DILUTION FACTOR	: 1.0

9500.562

Total Hydrocarbons Present as m/z 57 - 23

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SD3-2-SM

Client Name: E & E INC.

Contract:

Lab Code: EANDE Case No.: 562 SAS No.: SDG No.: 23123

Matrix: (soil/water) SOIL Lab Sample ID: 23127
 Sample wt/vol: 5.5 (g/mL) G Lab File ID: C0738
 Level: (low/med) LOW Date Received: 03/16/95
 % Moisture: not dec. 16 Date Analyzed: 03/22/95
 GC Column: VOCOL ID: 0.530 (mm) Dilution Factor: 1.0
 Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

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

CAS NO.	COMPOUND	Q
74-87-3	Chloromethane	11 U
74-83-9	Bromomethane	11 U
75-01-4	Vinyl Chloride	11 U
75-00-3	Chloroethane	11 U
75-09-2	Methylene Chloride	5 U
67-64-1	Acetone	5 BU
75-15-0	Carbon Disulfide	5 U
75-35-4	1,1-Dichloroethene	5 U
75-34-3	1,1-Dichloroethane	5 U
156-59-2	cis-1,2-Dichloroethene	5 U
156-60-5	trans-1,2-Dichloroethene	5 U
67-66-3	Chloroform	5 U
107-06-2	1,2-Dichloroethane	5 U
78-93-3	2-Butanone	11 U
71-55-6	1,1,1-Trichloroethane	5 U
56-23-5	Carbon Tetrachloride	5 U
75-27-4	Bromodichloromethane	5 U
78-87-5	1,2-Dichloropropane	5 U
10061-01-5	cis-1,3-Dichloropropene	5 U
79-01-6	Trichloroethene	5 U
124-48-1	Dibromochloromethane	5 U
79-00-5	1,1,2-Trichloroethane	5 U
71-43-2	Benzene	5 U
10061-02-6	trans-1,3-Dichloropropene	5 U
75-25-2	Bromoform	5 U
108-10-1	4-Methyl-2-Pentanone	11 U
591-78-6	2-Hexanone	11 U
127-18-4	Tetrachloroethene	5 U
79-34-5	1,1,2,2-Tetrachloroethane	5 U
108-88-3	Toluene	5 U
108-90-7	Chlorobenzene	5 U
100-41-4	Ethylbenzene	5 U
100-42-5	Styrene	5 U
1330-20-7	Xylene (total)	5 U

FORM I VOA

3/90

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SD3-2-SM

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 562

SAS No.:

SDG No.: 23123

Matrix: (soil/water) SOIL

Lab Sample ID: 23127

Sample wt/vol: 5.5 (g/mL) G

Lab File ID: C0738

Level: (low/med) LOW

Date Received: 03/16/95

% Moisture: not dec. 16

Date Analyzed: 03/22/95

GC Column: VOCOL ID: 0.530 (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

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF SOIL ANALYSIS FOR TENTATIVELY IDENTIFIED
VOLATILE ORGANIC COMPOUNDS BY GC/MS

CLIENT	: NM-9000 NIAGARA FALLS AFB	% SOLIDS	: 84%
TEST NAME	: PURGEABLES	UNITS	: UG/KG
SAMPLE ID LAB	: EE-95-23127	MATRIX	: SOIL
SAMPLE ID CLIENT	: NM9-SD3-2-SM-031695	DATE RECEIVED	: 03/16/95
SDG #	: 23123	DATE EXTRACTED	: NA
		DATE ANALYZED	: 03/22/95
SAMPLE VOLUME	: 5.5 G	INJECTION VOLUME	: NA
FINAL VOLUME	: NA	DILUTION FACTOR	: 1.0

9500.562

Total Hydrocarbons Present as m/z 57 - 19

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SD3-3-SO

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 562

SAS No.:

SDG No.: 23123

Matrix: (soil/water) SOIL

Lab Sample ID: 23128

Sample wt/vol: 5.2 (g/mL) G

Lab File ID: C0682

Level: (low/med) LOW

Date Received: 03/16/95

% Moisture: not dec. 22

Date Analyzed: 03/20/95

GC Column: VOCOL ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

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

Q

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	12	U
74-83-9	Bromomethane	12	UU
75-01-4	Vinyl Chloride	12	UU
75-00-3	Chloroethane	12	UU
75-09-2	Methylene Chloride	6	UU
67-64-1	Acetone	3	JU
75-15-0	Carbon Disulfide	6	UU
75-35-4	1,1-Dichloroethene	6	UU
75-34-3	1,1-Dichloroethane	6	UU
156-59-2	cis-1,2-Dichloroethene	6	UU
156-60-5	trans-1,2-Dichloroethene	6	UU
67-66-3	Chloroform	6	UU
107-06-2	1,2-Dichloroethane	6	UU
78-93-3	2-Butanone	12	UU
71-55-6	1,1,1-Trichloroethane	6	UU
56-23-5	Carbon Tetrachloride	6	UU
75-27-4	Bromodichloromethane	6	UU
78-87-5	1,2-Dichloropropane	6	UU
10061-01-5	cis-1,3-Dichloropropene	6	UU
79-01-6	Trichloroethene	6	UU
124-48-1	Dibromochloromethane	6	UU
79-00-5	1,1,2-Trichloroethane	6	UU
71-43-2	Benzene	6	UU
10061-02-6	trans-1,3-Dichloropropene	6	UU
75-25-2	Bromoform	6	UU
108-10-1	4-Methyl-2-Pentanone	3	BU
591-78-6	2-Hexanone	12	UU
127-18-4	Tetrachloroethene	6	UU
79-34-5	1,1,2,2-Tetrachloroethane	6	UU
108-88-3	Toluene	6	UU
108-90-7	Chlorobenzene	6	UU
100-41-4	Ethylbenzene	6	UU
100-42-5	Styrene	6	UU
1330-20-7	Xylene (total)	6	U

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF SOIL ANALYSIS FOR TENTATIVELY IDENTIFIED
VOLATILE ORGANIC COMPOUNDS BY GC/MS

CLIENT	: NM-9000 NIAGARA FALLS AFB	% SOLIDS	: 78 %
TEST NAME	: PURGEABLES	UNITS	: UG/KG
SAMPLE ID LAB	: EE-95-23128	MATRIX	: SOIL
SAMPLE ID CLIENT	: NM9-SD3-3-SO-031695	DATE RECEIVED	: 03/16/95
SDG #	: 23123	DATE EXTRACTED	: NA
		DATE ANALYZED	: 03/20/95
SAMPLE VOLUME	: 5.2 G	INJECTION VOLUME	: NA
FINAL VOLUME	: NA	DILUTION FACTOR	: 1.0

9500.562

Total Hydrocarbons Present as m/z 57 - 22

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW3-1-WO

Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 562

SAS No.:

SDG No.: 23123

Matrix: (soil/water) WATER

Lab Sample ID: 23123

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: F0776

Level: (low/med) LOW

Date Received: 03/16/95

% Moisture: not dec.

Date Analyzed: 03/17/95

GC Column: VOCOL ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L Q

74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

FORM I VOA

3/90

1E
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SW3-1-WO

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 562

SAS No.:

SDG No.: 23123

Matrix: (soil/water) WATER

Lab Sample ID: 23123

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: F0776

Level: (low/med) LOW

Date Received: 03/16/95

% Moisture: not dec.

Date Analyzed: 03/17/95

GC Column: VOCOL ID: 0.530 (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

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF WATER ANALYSIS FOR TENTATIVELY IDENTIFIED
VOLATILE ORGANIC COMPOUNDS BY GC/MS

CLIENT	: NM-9000 NIAGARA FALLS AFB	UNITS	: UG/L
TEST NAME	: PURGEABLES	MATRIX	: WATER
SAMPLE ID LAB	: EE-95-23123	DATE RECEIVED	: 03/16/95
SAMPLE ID CLIENT	: NM9-SW3-1-WO-031695	DATE EXTRACTED	: NA
SDG #	: 23123	DATE ANALYZED	: 03/17/95
SAMPLE VOLUME	: 5.0 ML	INJECTION VOLUME	: NA
FINAL VOLUME	: NA	DILUTION FACTOR	: 1.0

9500.562

Total Hydrocarbons Present as m/z 57 - 3

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW3-2-WO

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 562

SAS No.:

SDG No.: 23123

Matrix: (soil/water) WATER

Lab Sample ID: 23124

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: F0777

Level: (low/med) LOW

Date Received: 03/16/95

% Moisture: not dec.

Date Analyzed: 03/17/95

GC Column: VOCOL ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

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

CAS NO.

COMPOUND

Q

74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

FORM I VOA

3/90

1E
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SW3-2-WO

Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 562

SAS No.:

SDG No.: 23123

Matrix: (soil/water) WATER

Lab Sample ID: 23124

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: F0777

Level: (low/med) LOW

Date Received: 03/16/95

% Moisture: not dec.

Date Analyzed: 03/17/95

GC Column: VOCOL ID: 0.530 (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

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF WATER ANALYSIS FOR TENTATIVELY IDENTIFIED
VOLATILE ORGANIC COMPOUNDS BY GC/MS

CLIENT : NM-9000 NIAGARA FALLS AFB
TEST NAME : PURGEABLES UNITS : UG/L
SAMPLE ID LAB : EE-95-23124 MATRIX: WATER
SAMPLE ID CLIENT: NM9-SW3-2-WO-031695 DATE RECEIVED : 03/16/95
SDG # : 23123 DATE EXTRACTED: NA
DATE ANALYZED : 03/17/95
SAMPLE VOLUME: 5.0 ML INJECTION VOLUME: NA
FINAL VOLUME : NA DILUTION FACTOR : 1.0

9500.562

Total Hydrocarbons Present as m/z 57 - 3

1A-
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW3-3-WO

Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 562

SAS No.:

SDG No.: 23123

Matrix: (soil/water) WATER

Lab Sample ID: 23125

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: F0778

Level: (low/med) LOW

Date Received: 03/16/95

% Moisture: not dec.

Date Analyzed: 03/17/95

GC Column: VOCOL ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L Q

74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

FORM I VOA

3/90

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SW3-3-WO

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 562

SAS No.:

SDG No.: 23123

Matrix: (soil/water) WATER

Lab Sample ID: 23125

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: F0778

Level: (low/med) LOW

Date Received: 03/16/95

% Moisture: not dec.

Date Analyzed: 03/17/95

GC Column: VOCOL ID: 0.530 (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
=====	=====	=====	=====	=====

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF WATER ANALYSIS FOR TENTATIVELY IDENTIFIED
VOLATILE ORGANIC COMPOUNDS BY GC/MS

CLIENT : NM-9000 NIAGARA FALLS AFB
TEST NAME : PURGEABLES UNITS : UG/L
SAMPLE ID LAB : EE-95-23125 MATRIX: WATER
SAMPLE ID CLIENT: NM9-SW3-3-WO-031695 DATE RECEIVED : 03/16/95
SDG # : 23123 DATE EXTRACTED: NA
DATE ANALYZED : 03/17/95
SAMPLE VOLUME: 5.0 ML INJECTION VOLUME: NA
FINAL VOLUME : NA DILUTION FACTOR : 1.0

9500.562

Total Hydrocarbons Present as m/z 57 - 3

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SD3-1-SO

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 562

SAS No.:

SDG No.: 23123

Matrix: (soil/water) SOIL

Lab Sample ID: 23126

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E1725

Level: (low/med) LOW

Date Received: 03/16/95

% Moisture: 27 decanted: (Y/N) N

Date Extracted: 03/20/95

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 03/24/95

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH:

CONCENTRATION UNITS:

CAS NO.

COMPOUND

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

Q

108-95-2-----Phenol	450	U
111-44-4-----bis(2-Chloroethyl) Ether	450	U
95-57-8-----2-Chlorophenol	450	U
541-73-1-----1,3-Dichlorobenzene	450	U
106-46-7-----1,4-Dichlorobenzene	450	U
95-50-1-----1,2-Dichlorobenzene	450	U
95-48-7-----2-Methylphenol	450	U
108-60-1-----2,2'-oxybis(1-Chloropropane)	450	U
106-44-5-----4-Methylphenol	450	U
621-64-7-----N-Nitroso-Di-n-Propylamine	450	U
67-72-1-----Hexachloroethane	450	U
98-95-3-----Nitrobenzene	450	U
78-59-1-----Isophorone	450	U
88-75-5-----2-Nitrophenol	450	U
105-67-9-----2,4-Dimethylphenol	450	U
111-91-1-----bis(2-Chloroethoxy)Methane	450	U
120-83-2-----2,4-Dichlorophenol	450	U
120-82-1-----1,2,4-Trichlorobenzene	450	U
91-20-3-----Naphthalene	44	J
106-47-8-----4-Chloroaniline	450	U
87-68-3-----Hexachlorobutadiene	450	U
59-50-7-----4-Chloro-3-Methylphenol	450	U
91-57-6-----2-Methylnaphthalene	450	U
77-47-4-----Hexachlorocyclopentadiene	450	U
88-06-2-----2,4,6-Trichlorophenol	450	U
95-95-4-----2,4,5-Trichlorophenol	2200	U
91-58-7-----2-Chloronaphthalene	450	U
88-74-4-----2-Nitroaniline	2200	U
131-11-3-----Dimethylphthalate	450	U
208-96-8-----Acenaphthylene	450	U
606-20-2-----2,6-Dinitrotoluene	450	U
99-09-2-----3-Nitroaniline	2200	U
83-32-9-----Acenaphthene	450	U

FORM I SV-1

3/90

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SD3-1-SO

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 562

SAS No.:

SDG No.: 23123

Matrix: (soil/water) SOIL

Lab Sample ID: 23126

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E1725

Level: (low/med) LOW

Date Received: 03/16/95

% Moisture: 27 decanted: (Y/N) N

Date Extracted: 03/20/95

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 03/24/95

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH:

CONCENTRATION UNITS:

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

Q

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	2200	U
100-02-7	4-Nitrophenol	2200	U
132-64-9	Dibenzofuran	450	U
121-14-2	2,4-Dinitrotoluene	450	U
84-66-2	Diethylphthalate	450	U
7005-72-3	4-Chlorophenyl-phenylether	450	U
86-73-7	Fluorene	450	U
100-01-6	4-Nitroaniline	2200	U
534-52-1	4,6-Dinitro-2-methylphenol	2200	U
86-30-6	N-Nitrosodiphenylamine (1)	450	U
101-55-3	4-Bromophenyl-phenylether	450	U
118-74-1	Hexachlorobenzene	450	U
87-86-5	Pentachlorophenol	2200	U
85-01-8	Phenanthrene	310	J
120-12-7	Anthracene	72	J
86-74-8	Carbazole	450	U
84-74-2	Di-n-Butylphthalate	450	U
206-44-0	Fluoranthene	240	J
92-87-5	Benzidine	2200	U
55-85-0	Benzoic Acid	2200	U
100-51-6	Benzyl Alcohol	450	U
129-00-0	Pyrene	160	J
85-68-7	Butylbenzylphthalate	450	U
91-94-1	3,3'-Dichlorobenzidine	900	U
56-55-3	Benzo (a) Anthracene	94	J
218-01-9	Chrysene	98	J
117-81-7	bis(2-Ethylhexyl) Phthalate	450	U
117-84-0	Di-n-Octyl Phthalate	450	U
205-99-2	Benzo (b) Fluoranthene	56	J
207-08-9	Benzo (k) Fluoranthene	80	J
50-32-8	Benzo (a) Pyrene	47	J
193-39-5	Indeno (1,2,3-cd) Pyrene	33	J
53-70-3	Dibenz (a, h) Anthracene	450	J
191-24-2	Benzo (g, h, i) Perylene	29	J

(1) - Cannot be separated from Diphenylamine
FORM I SV-2

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SD3-1-SO

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 562

SAS No.:

SDG No.: 23123

Matrix: (soil/water) SOIL

Lab Sample ID: 23126

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E1725

Level: (low/med) LOW

Date Received: 03/16/95

% Moisture: 27 decanted: (Y/N) N

Date Extracted: 03/20/95

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 03/24/95

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH:

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

Number TICs found: 10

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	5.05	2000	J
2. 12-34-22	Aldol Condensation Product	5.79	23000	JN
3.	UNKNOWN OXY. HYDROCARBON	7.53	570	J
4.	UNKNOWN	8.42	270	J
5.	UNKNOWN	9.53	430	J
6.	UNKNOWN OXY. HYDROCARBON	10.89	360	J
7.	UNKNOWN HYDROCARBON	34.20	110	J
8.	UNKNOWN HYDROCARBON	36.05	340	J
9.	UNKNOWN HYDROCARBON	38.21	270	J
10.	UNKNOWN	42.47	170	J

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF SOIL ANALYSIS FOR TENTATIVELY IDENTIFIED
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS

CLIENT	: NM-9000 NIAGARA FALLS AFB	% SOLIDS	: 73 %
TEST NAME	: SEMI-VOLATILES	UNITS	: UG/KG
SAMPLE ID LAB	: EE-95-23126	MATRIX	: SOIL
SAMPLE ID CLIENT	: NM9-SD3-1-SO-031695	DATE RECEIVED	: 03/16/95
SDG #	: 23123	DATE EXTRACTED	: 03/20/95
		DATE ANALYZED	: 03/24/95
SAMPLE VOLUME	: 30 G	INJECTION VOLUME	: 2.0 UL
FINAL VOLUME	: 500 UL	DILUTION FACTOR	: 1.0

9500.562

Total hydrocarbons
present as mass 57 420

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SD3-1-SORE

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 562

SAS No.:

SDG No.: 23123

Matrix: (soil/water) SOIL

Lab Sample ID: 23126RE

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: G9878

Level: (low/med) LOW

Date Received: 03/16/95

% Moisture: 27 decanted: (Y/N) N

Date Extracted: 03/28/95

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 04/03/95

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH:

CONCENTRATION UNITS:

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

Q

CAS NO.

COMPOUND

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	450	U
111-44-4	bis(2-Chloroethyl) Ether	450	U
95-57-8	2-Chlorophenol	450	U
541-73-1	1,3-Dichlorobenzene	450	U
106-46-7	1,4-Dichlorobenzene	450	U
95-50-1	1,2-Dichlorobenzene	450	U
95-48-7	2-Methylphenol	450	U
108-60-1	2,2'-oxybis(1-Chloropropane)	450	U
106-44-5	4-Methylphenol	450	U
621-64-7	N-Nitroso-Di-n-Propylamine	450	U
67-72-1	Hexachloroethane	450	U
98-95-3	Nitrobenzene	450	U
78-59-1	Isophorone	450	U
88-75-5	2-Nitrophenol	450	U
105-67-9	2,4-Dimethylphenol	450	U
111-91-1	bis(2-Chloroethoxy)Methane	450	U
120-83-2	2,4-Dichlorophenol	450	U
120-82-1	1,2,4-Trichlorobenzene	450	U
91-20-3	Naphthalene	450	U
106-47-8	4-Chloroaniline	450	U
87-68-3	Hexachlorobutadiene	450	U
59-50-7	4-Chloro-3-Methylphenol	450	U
91-57-6	2-Methylnaphthalene	450	U
77-47-4	Hexachlorocyclopentadiene	450	U
88-06-2	2,4,6-Trichlorophenol	450	U
95-95-4	2,4,5-Trichlorophenol	2200	U
91-58-7	2-Chloronaphthalene	450	U
88-74-4	2-Nitroaniline	2200	U
131-11-3	Dimethylphthalate	450	U
208-96-8	Acenaphthylene	450	U
606-20-2	2,6-Dinitrotoluene	450	U
99-09-2	3-Nitroaniline	2200	U
83-32-9	Acenaphthene	450	U

FORM I SV-1

3/90

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SD3-1-SORE

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 562

SAS No.:

SDG No.: 23123

Matrix: (soil/water) SOIL

Lab Sample ID: 23126RE

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: G9878

Level: (low/med) LOW

Date Received: 03/16/95

% Moisture: 27 decanted: (Y/N) N

Date Extracted: 03/28/95

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 04/03/95

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH:

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

Q

CAS NO.

COMPOUND

51-28-5	2,4-Dinitrophenol	2200	U
100-02-7	4-Nitrophenol	2200	U
132-64-9	Dibenzofuran	450	U
121-14-2	2,4-Dinitrotoluene	450	U
84-66-2	Diethylphthalate	450	U
7005-72-3	4-Chlorophenyl-phenylether	450	U
86-73-7	Fluorene	450	U
100-01-6	4-Nitroaniline	2200	U
534-52-1	4,6-Dinitro-2-methylphenol	2200	U
86-30-6	N-Nitrosodiphenylamine (1)	450	U
101-55-3	4-Bromophenyl-phenylether	450	U
118-74-1	Hexachlorobenzene	450	U
87-86-5	Pentachlorophenol	2200	U
85-01-8	Phenanthrene	450	U
120-12-7	Anthracene	450	U
86-74-8	Carbazole	450	U
84-74-2	Di-n-Butylphthalate	450	U
206-44-0	Fluoranthene	57	J
92-87-5	Benzidine	2200	U
55-85-0	Benzoic Acid	2200	U
100-51-6	Benzyl Alcohol	450	U
129-00-0	Pyrene	45	J
85-68-7	Butylbenzylphthalate	450	U
91-94-1	3,3'-Dichlorobenzidine	900	U
56-55-3	Benzo(a)Anthracene	450	U
218-01-9	Chrysene	450	U
117-81-7	bis(2-Ethylhexyl)Phthalate	450	U
117-84-0	Di-n-Octyl Phthalate	450	U
205-99-2	Benzo(b)Fluoranthene	46	J
207-08-9	Benzo(k)Fluoranthene	450	U
50-32-8	Benzo(a)Pyrene	450	U
193-39-5	Indeno(1,2,3-cd)Pyrene	450	U
53-70-3	Dibenz(a,h)Anthracene	450	U
191-24-2	Benzo(g,h,i)Perylene	450	U

(1) - Cannot be separated from Diphenylamine
FORM I SV-2

3/90

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SD3-1-SORE

Lab Name: E & E INC.	Contract:	
Lab Code: EANDE	Case No.: 562	SAS No.: SDG No.: 23123
Matrix: (soil/water) SOIL		Lab Sample ID: 23126RE
Sample wt/vol: 30.0 (g/mL) G		Lab File ID: G9878
Level: (low/med) LOW		Date Received: 03/16/95
% Moisture: 27 decanted: (Y/N) N		Date Extracted: 03/28/95
Concentrated Extract Volume: 500.0 (uL)		Date Analyzed: 04/03/95
Injection Volume: 2.0 (uL)		Dilution Factor: 1.0
GPC Cleanup: (Y/N) Y pH:		

Number TICs found: 15

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1. 12-34-22	Aldol Condensation Product	4.43	17000	ABJN
2.	UNKNOWN	6.18	1600	BJ
3.	UNKNOWN	6.51	250	J
4.	UNKNOWN	6.88	410	BJ
5.	UNKNOWN	8.07	1500	J
6.	UNKNOWN	9.51	680	J
7. 98-86-2	Acetophenone	9.79	91	BJ
8.	UNKNOWN CARBOXYLIC ACID	24.78	320	J
9.	UNKNOWN CARBOXYLIC ACID	27.26	340	J
10.	UNKNOWN HYDROCARBON	30.98	180	J
11.	UNKNOWN HYDROCARBON	32.98	250	J
12.	UNKNOWN HYDROCARBON	36.67	250	J
13.	UNKNOWN	39.42	390	J
14.	UNKNOWN	40.14	91	J
15.	UNKNOWN	40.84	160	J

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF SOIL ANALYSIS FOR TENTATIVELY IDENTIFIED
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS

CLIENT	: NM-9000 NIAGARA FALLS AFB	% SOLIDS	: 73 %
TEST NAME	: SEMI-VOLATILES	UNITS	: UG/KG
SAMPLE ID LAB	: EE-95-23126 RE	MATRIX	: SOIL
SAMPLE ID CLIENT	: NM9-SD3-1-SO-031695	DATE RECEIVED	: 03/16/95
SDG #	: 23123	DATE EXTRACTED	: 03/28/95
		DATE ANALYZED	: 04/03/95
SAMPLE VOLUME	: 30 G	INJECTION VOLUME	: 2.0 UL
FINAL VOLUME	: 500 UL	DILUTION FACTOR	: 1.0

9500.562

Total hydrocarbon
present as mass 57 510

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SD3-2-SM

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 562

SAS No.:

SDG No.: 23123

Matrix: (soil/water) SOIL

Lab Sample ID: 23127

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E1726

Level: (low/med) LOW

Date Received: 03/16/95

% Moisture: 16 decanted: (Y/N) N

Date Extracted: 03/20/95

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 03/24/95

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH:

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

CAS NO.

COMPOUND

Q

108-95-2	Phenol	390	U
111-44-4	bis(2-Chloroethyl) Ether	390	U
95-57-8	2-Chlorophenol	390	U
541-73-1	1,3-Dichlorobenzene	390	U
106-46-7	1,4-Dichlorobenzene	390	U
95-50-1	1,2-Dichlorobenzene	390	U
95-48-7	2-Methylphenol	390	U
108-60-1	2,2'-oxybis(1-Chloropropane)	390	U
106-44-5	4-Methylphenol	390	U
621-64-7	N-Nitroso-Di-n-Propylamine	390	U
67-72-1	Hexachloroethane	390	U
98-95-3	Nitrobenzene	390	U
78-59-1	Isophorone	390	U
88-75-5	2-Nitrophenol	390	U
105-67-9	2,4-Dimethylphenol	390	U
111-91-1	bis(2-Chloroethoxy)Methane	390	U
120-83-2	2,4-Dichlorophenol	390	U
120-82-1	1,2,4-Trichlorobenzene	390	U
91-20-3	Naphthalene	390	U
106-47-8	4-Chloroaniline	390	U
87-68-3	Hexachlorobutadiene	390	U
59-50-7	4-Chloro-3-Methylphenol	390	U
91-57-6	2-Methylnaphthalene	390	U
77-47-4	Hexachlorocyclopentadiene	390	U
88-06-2	2,4,6-Trichlorophenol	390	U
95-95-4	2,4,5-Trichlorophenol	1900	U
91-58-7	2-Chloronaphthalene	390	U
88-74-4	2-Nitroaniline	1900	U
131-11-3	Dimethylphthalate	390	U
208-96-8	Acenaphthylene	390	U
606-20-2	2,6-Dinitrotoluene	390	U
99-09-2	3-Nitroaniline	1900	U
83-32-9	Acenaphthene	390	U

FORM I SV-1

3/90

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SD3-2-SM

Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 562

SAS No.:

SDG No.: 23123

Matrix: (soil/water) SOIL

Lab Sample ID: 23127

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E1726

Level: (low/med) LOW

Date Received: 03/16/95

% Moisture: 16 decanted: (Y/N) N

Date Extracted: 03/20/95

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 03/24/95

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH:

CONCENTRATION UNITS:

CAS NO.

COMPOUND

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

Q

51-28-5-----	2,4-Dinitrophenol	1900	U
100-02-7-----	4-Nitrophenol	1900	U
132-64-9-----	Dibenzofuran	390	U
121-14-2-----	2,4-Dinitrotoluene	390	U
84-66-2-----	Diethylphthalate	390	U
7005-72-3-----	4-Chlorophenyl-phenylether	390	U
86-73-7-----	Fluorene	390	U
100-01-6-----	4-Nitroaniline	1900	U
534-52-1-----	4,6-Dinitro-2-methylphenol	1900	U
86-30-6-----	N-Nitrosodiphenylamine (1)	390	U
101-55-3-----	4-Bromophenyl-phenylether	390	U
118-74-1-----	Hexachlorobenzene	390	U
87-86-5-----	Pentachlorophenol	1900	U
85-01-8-----	Phenanthrene	36	J
120-12-7-----	Anthracene	390	U
86-74-8-----	Carbazole	390	U
84-74-2-----	Di-n-Butylphthalate	390	U
206-44-0-----	Fluoranthene	43	J
92-87-5-----	Benzidine	1900	U
55-85-0-----	Benzoic Acid	1900	U
100-51-6-----	Benzyl Alcohol	390	U
129-00-0-----	Pyrene	36	J
85-68-7-----	Butylbenzylphthalate	390	U
91-94-1-----	3,3'-Dichlorobenzidine	790	U
56-55-3-----	Benzo(a)Anthracene	390	U
218-01-9-----	Chrysene	390	U
117-81-7-----	bis(2-Ethylhexyl) Phthalate	390	U
117-84-0-----	Di-n-Octyl Phthalate	390	U
205-99-2-----	Benzo(b)Fluoranthene	390	U
207-08-9-----	Benzo(k)Fluoranthene	390	U
50-32-8-----	Benzo(a)Pyrene	390	U
193-39-5-----	Indeno(1,2,3-cd)Pyrene	390	U
53-70-3-----	Dibenz(a,h)Anthracene	390	U
191-24-2-----	Benzo(g,h,i)Perylene	390	U

(1) - Cannot be separated from Diphenylamine

FORM I SV-2

3/90

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SD3-2-SM

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 562

SAS No.:

SDG No.: 23123

Matrix: (soil/water) SOIL

Lab Sample ID: 23127

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E1726

Level: (low/med) LOW

Date Received: 03/16/95

% Moisture: 16 decanted: (Y/N) N

Date Extracted: 03/20/95

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 03/24/95

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GC Cleanup: (Y/N) Y

pH:

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

Number TICs found: 9

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	5.12	2400	J
2. 12-34-22	Aldol Condensation Product	5.86	24000	ABJN
3.	UNKNOWN	7.54	690	BJ
4.	UNKNOWN	7.91	320	J
5.	UNKNOWN	8.42	260	BJ
6.	UNKNOWN	9.54	380	BJ
7.	UNKNOWN	10.90	430	BJ
8.	UNKNOWN	35.52	99	J
9.	UNKNOWN HYDROCARBON	36.04	160	J

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SD3-3-SO

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 562

SAS No.:

SDG No.: 23123

Matrix: (soil/water) SOIL

Lab Sample ID: 23128

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E1727

Level: (low/med) LOW

Date Received: 03/16/95

% Moisture: 22 decanted: (Y/N) N

Date Extracted: 03/20/95

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 03/24/95

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH:

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

CAS NO.

COMPOUND

Q

108-95-2-----	Phenol	420	U
111-44-4-----	bis(2-Chloroethyl) Ether	420	U
95-57-8-----	2-Chlorophenol	420	U
541-73-1-----	1,3-Dichlorobenzene	420	U
106-46-7-----	1,4-Dichlorobenzene	420	U
95-50-1-----	1,2-Dichlorobenzene	420	U
95-48-7-----	2-Methylphenol	420	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	420	U
106-44-5-----	4-Methylphenol	420	U
621-64-7-----	N-Nitroso-Di-n-Propylamine	420	U
67-72-1-----	Hexachloroethane	420	U
98-95-3-----	Nitrobenzene	420	U
78-59-1-----	Isophorone	420	U
88-75-5-----	2-Nitrophenol	420	U
105-67-9-----	2,4-Dimethylphenol	420	U
111-91-1-----	bis(2-Chloroethoxy) Methane	420	U
120-83-2-----	2,4-Dichlorophenol	420	U
120-82-1-----	1,2,4-Trichlorobenzene	420	U
91-20-3-----	Naphthalene	420	U
106-47-8-----	4-Chloroaniline	420	U
87-68-3-----	Hexachlorobutadiene	420	U
59-50-7-----	4-Chloro-3-Methylphenol	420	U
91-57-6-----	2-Methylnaphthalene	420	U
77-47-4-----	Hexachlorocyclopentadiene	420	U
88-06-2-----	2,4,6-Trichlorophenol	420	U
95-95-4-----	2,4,5-Trichlorophenol	2100	U
91-58-7-----	2-Chloronaphthalene	420	U
88-74-4-----	2-Nitroaniline	2100	U
131-11-3-----	Dimethylphthalate	420	U
208-96-8-----	Acenaphthylene	420	U
606-20-2-----	2,6-Dinitrotoluene	420	U
99-09-2-----	3-Nitroaniline	2100	U
83-32-9-----	Acenaphthene	420	U

FORM I SV-1

3/90

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SD3-3-SO

Lab Name: E & E INC.

Contract:

Lab Code: EANDE Case No.: 562 SAS No.: SDG No.: 23123

Matrix: (soil/water) SOIL Lab Sample ID: 23128

Sample wt/vol: 30.0 (g/mL) G Lab File ID: E1727

Level: (low/med) LOW Date Received: 03/16/95

% Moisture: 22 decanted: (Y/N) N Date Extracted: 03/20/95

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 03/24/95

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH:

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

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	2100	U
100-02-7	4-Nitrophenol	2100	U
132-64-9	Dibenzofuran	420	U
121-14-2	2,4-Dinitrotoluene	420	U
84-66-2	Diethylphthalate	420	U
7005-72-3	4-Chlorophenyl-phenylether	420	U
86-73-7	Fluorene	420	U
100-01-6	4-Nitroaniline	2100	U
534-52-1	4,6-Dinitro-2-methylphenol	2100	U
86-30-6	N-Nitrosodiphenylamine (1)	420	U
101-55-3	4-Bromophenyl-phenylether	420	U
118-74-1	Hexachlorobenzene	420	U
87-86-5	Pentachlorophenol	2100	U
85-01-8	Phenanthrene	420	U
120-12-7	Anthracene	420	U
86-74-8	Carbazole	420	U
84-74-2	Di-n-Butylphthalate	420	U
206-44-0	Fluoranthene	44	J
92-87-5	Benzidine	2100	U
55-85-0	Benzoic Acid	2100	U
100-51-6	Benzyl Alcohol	420	U
129-00-0	Pyrene	44	J
85-68-7	Butylbenzylphthalate	420	U
91-94-1	3,3'-Dichlorobenzidine	850	U
56-55-3	Benzo(a)Anthracene	30	J
218-01-9	Chrysene	31	J
117-81-7	bis(2-Ethylhexyl) Phthalate	420	U
117-84-0	Di-n-Octyl Phthalate	420	U
205-99-2	Benzo(b) Fluoranthene	32	J
207-08-9	Benzo(k) Fluoranthene	420	U
50-32-8	Benzo(a) Pyrene	40	J
193-39-5	Indeno(1,2,3-cd) Pyrene	420	U
53-70-3	Dibenz(a,h) Anthracene	420	U
191-24-2	Benzo(g,h,i) Perylene	420	U

(1) - Cannot be separated from Diphenylamine

FORM I SV-2

3/90

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SD3-3-SO

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 562

SAS No.:

SDG No.: 23123

Matrix: (soil/water) SOIL

Lab Sample ID: 23128

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E1727

Level: (low/med) LOW

Date Received: 03/16/95

% Moisture: 22 decanted: (Y/N) N

Date Extracted: 03/20/95

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 03/24/95

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH:

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

Number TICs found: 9

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN HYDROCARBON	4.54	150	J
2.	UNKNOWN	5.14	3000	J
3.	UNKNOWN HYDROCARBON	5.32	130	J
4. 12-34-22	Aldol Condensation Product	5.88	30000	ABJN
5.	UNKNOWN OXY. HYDROCARBON	7.54	920	BJ
6.	UNKNOWN	7.92	340	J
7.	UNKNOWN	8.43	470	BJ
8.	UNKNOWN	9.54	320	BJ
9.	UNKNOWN	10.90	490	J

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF SOIL ANALYSIS FOR TENTATIVELY IDENTIFIED
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS

CLIENT	: NM-9000 NIAGARA FALLS AFB	% SOLIDS	: 78 %
TEST NAME	: SEMI-VOLATILES	UNITS	: UG/KG
SAMPLE ID LAB	: EE-95-23128	MATRIX	: SOIL
SAMPLE ID CLIENT	: NM9-SD3-3-SO-031695	DATE RECEIVED	: 03/16/95
SDG #	: 23123	DATE EXTRACTED	: 03/20/95
		DATE ANALYZED	: 03/24/95
SAMPLE VOLUME	: 30 G	INJECTION VOLUME	: 2.0 UL
FINAL VOLUME	: 500 UL	DILUTION FACTOR	: 1.0

9500.562

Total hydrocarbons
present as mass 57 500

83

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW3-1-WO

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 562

SAS No.:

SDG No.: 23123

Matrix: (soil/water) WATER

Lab Sample ID: 23123

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: E1687

Level: (low/med) LOW

Date Received: 03/16/95

% Moisture: decanted: (Y/N)

Date Extracted: 03/17/95

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 03/22/95

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH:

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

CAS NO.

COMPOUND

Q

108-95-2-----	Phenol	10	U
111-44-4-----	bis(2-Chloroethyl) Ether	10	U
95-57-8-----	2-Chlorophenol	10	U
541-73-1-----	1,3-Dichlorobenzene	10	U
106-46-7-----	1,4-Dichlorobenzene	10	U
95-50-1-----	1,2-Dichlorobenzene	10	U
95-48-7-----	2-Methylphenol	10	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5-----	4-Methylphenol	10	U
621-64-7-----	N-Nitroso-Di-n-Propylamine	10	U
67-72-1-----	Hexachloroethane	10	U
98-95-3-----	Nitrobenzene	10	U
78-59-1-----	Isophorone	10	U
88-75-5-----	2-Nitrophenol	10	U
105-67-9-----	2,4-Dimethylphenol	10	U
111-91-1-----	bis(2-Chloroethoxy)Methane	10	U
120-83-2-----	2,4-Dichlorophenol	10	U
120-82-1-----	1,2,4-Trichlorobenzene	10	U
91-20-3-----	Naphthalene	10	U
106-47-8-----	4-Chloroaniline	10	U
87-68-3-----	Hexachlorobutadiene	10	U
59-50-7-----	4-Chloro-3-Methylphenol	10	U
91-57-6-----	2-Methylnaphthalene	10	U
77-47-4-----	Hexachlorocyclopentadiene	10	U
88-06-2-----	2,4,6-Trichlorophenol	10	U
95-95-4-----	2,4,5-Trichlorophenol	50	U
91-58-7-----	2-Chloronaphthalene	10	U
88-74-4-----	2-Nitroaniline	50	U
131-11-3-----	Dimethylphthalate	10	U
208-96-8-----	Acenaphthylene	10	U
606-20-2-----	2,6-Dinitrotoluene	10	U
99-09-2-----	3-Nitroaniline	50	U
83-32-9-----	Acenaphthene	10	U

FORM I SV-1

3/90

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW3-1-WO

Client Name: E & E INC.

Contract:

Lab Code: EANDE Case No.: 562 SAS No.: SDG No.: 23123

Matrix: (soil/water) WATER Lab Sample ID: 23123

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E1687

Level: (low/med) LOW Date Received: 03/16/95

% Moisture: decanted: (Y/N) Date Extracted: 03/17/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/22/95

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	UU
132-64-9	Dibenzofuran	10	UU
121-14-2	2,4-Dinitrotoluene	10	UU
84-66-2	Diethylphthalate	10	UU
7005-72-3	4-Chlorophenyl-phenylether	10	UU
86-73-7	Fluorene	10	UU
100-01-6	4-Nitroaniline	50	UU
534-52-1	4,6-Dinitro-2-methylphenol	50	UU
86-30-6	N-Nitrosodiphenylamine (1)	10	UU
101-55-3	4-Bromophenyl-phenylether	10	UU
118-74-1	Hexachlorobenzene	10	UU
87-86-5	Pentachlorophenol	50	UU
85-01-8	Phenanthrene	10	UU
120-12-7	Anthracene	10	UU
86-74-8	Carbazole	10	UU
84-74-2	Di-n-Butylphthalate	10	UU
206-44-0	Fluoranthene	10	UU
92-87-5	Benzidine	50	UU
55-85-0	Benzoic Acid	50	UU
100-51-6	Benzyl Alcohol	10	UU
129-00-0	Pyrene	10	UU
85-68-7	Butylbenzylphthalate	10	UU
91-94-1	3,3'-Dichlorobenzidine	20	UU
56-55-3	Benzo (a) Anthracene	10	UU
218-01-9	Chrysene	10	UU
117-81-7	bis(2-Ethylhexyl) Phthalate	7	UU
117-84-0	Di-n-Octyl Phthalate	10	UU
205-99-2	Benzo (b) Fluoranthene	10	UU
207-08-9	Benzo (k) Fluoranthene	10	UU
50-32-8	Benzo (a) Pyrene	10	UU
193-39-5	Indeno (1,2,3-cd) Pyrene	10	UU
53-70-3	Dibenz (a,h) Anthracene	10	UU
191-24-2	Benzo (g,h,i) Perylene	10	U

(1) - Cannot be separated from Diphenylamine
FORM I SV-2

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SW3-1-WO

Lab Name: E & E INC. Contract: _____

Lab Code: EANDE Case No.: 562 SAS No.: _____ SDG No.: 23123

Matrix: (soil/water) WATER Lab Sample ID: 23123

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E1687

Level: (low/med) LOW Date Received: 03/16/95

% Moisture: decanted: (Y/N) Date Extracted: 03/17/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/22/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

Number TICs found: 1

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 12-34-22	Aldol Condensation Product	5.63	10	ABJN

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW3-2-WO

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 562

SAS No.:

SDG No.: 23123

Matrix: (soil/water) WATER

Lab Sample ID: 23124

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: E1688

Level: (low/med) LOW

Date Received: 03/16/95

% Moisture: decanted: (Y/N)

Date Extracted: 03/17/95

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 03/22/95

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH:

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

CAS NO.

COMPOUND

Q

108-95-2-----	Phenol	10	U
111-44-4-----	bis(2-Chloroethyl) Ether	10	U
95-57-8-----	2-Chlorophenol	10	U
541-73-1-----	1,3-Dichlorobenzene	10	U
106-46-7-----	1,4-Dichlorobenzene	10	U
95-50-1-----	1,2-Dichlorobenzene	10	U
95-48-7-----	2-Methylphenol	10	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5-----	4-Methylphenol	10	U
621-64-7-----	N-Nitroso-Di-n-Propylamine	10	U
67-72-1-----	Hexachloroethane	10	U
98-95-3-----	Nitrobenzene	10	U
78-59-1-----	Isophorone	10	U
88-75-5-----	2-Nitrophenol	10	U
105-67-9-----	2,4-Dimethylphenol	10	U
111-91-1-----	bis(2-Chloroethoxy)Methane	10	U
120-83-2-----	2,4-Dichlorophenol	10	U
120-82-1-----	1,2,4-Trichlorobenzene	10	U
91-20-3-----	Naphthalene	10	U
106-47-8-----	4-Chloroaniline	10	U
87-68-3-----	Hexachlorobutadiene	10	U
59-50-7-----	4-Chloro-3-Methylphenol	10	U
91-57-6-----	2-Methylnaphthalene	10	U
77-47-4-----	Hexachlorocyclopentadiene	10	U
88-06-2-----	2,4,6-Trichlorophenol	10	U
95-95-4-----	2,4,5-Trichlorophenol	50	U
91-58-7-----	2-Chloronaphthalene	10	U
88-74-4-----	2-Nitroaniline	50	U
131-11-3-----	Dimethylphthalate	10	U
208-96-8-----	Acenaphthylene	10	U
606-20-2-----	2,6-Dinitrotoluene	10	U
99-09-2-----	3-Nitroaniline	50	U
83-32-9-----	Acenaphthene	10	U

FORM I SV-1

3/90

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW3-2-WO

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 562

SAS No.:

SDG No.: 23123

Matrix: (soil/water) WATER

Lab Sample ID: 23124

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: E1688

Level: (low/med) LOW

Date Received: 03/16/95

% Moisture: decanted: (Y/N)

Date Extracted: 03/17/95

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 03/22/95

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH:

CONCENTRATION UNITS:

CAS NO.

COMPOUND

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

Q

51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	UU
132-64-9	Dibenzofuran	10	UUU
121-14-2	2,4-Dinitrotoluene	10	UUUU
84-66-2	Diethylphthalate	10	UUUUU
7005-72-3	4-Chlorophenyl-phenylether	10	UUUUUU
86-73-7	Fluorene	10	UUUUUUU
100-01-6	4-Nitroaniline	50	UUUUUUU
534-52-1	4,6-Dinitro-2-methylphenol	50	UUUUUUU
86-30-6	N-Nitrosodiphenylamine (1)	10	UUUUUUU
101-55-3	4-Bromophenyl-phenylether	10	UUUUUUU
118-74-1	Hexachlorobenzene	10	UUUUUUU
87-86-5	Pentachlorophenol	50	UUUUUUU
85-01-8	Phenanthrene	10	UUUUUUU
120-12-7	Anthracene	10	UUUUUUU
86-74-8	Carbazole	10	UUUUUUU
84-74-2	Di-n-Butylphthalate	10	UUUUUUU
206-44-0	Fluoranthene	10	UUUUUUU
92-87-5	Benzidine	50	UUUUUUU
55-85-0	Benzoic Acid	50	UUUUUUU
100-51-6	Benzyl Alcohol	10	UUUUUUU
129-00-0	Pyrene	10	UUUUUUU
85-68-7	Butylbenzylphthalate	10	UUUUUUU
91-94-1	3,3'-Dichlorobenzidine	20	UUUUUUU
56-55-3	Benzo(a)Anthracene	10	UUUUUUU
218-01-9	Chrysene	10	UUUUUUU
117-81-7	bis(2-Ethylhexyl)Phthalate	10	UUUUUUU
117-84-0	Di-n-Octyl Phthalate	10	UUUUUUU
205-99-2	Benzo(b) Fluoranthene	10	UUUUUUU
207-08-9	Benzo(k) Fluoranthene	10	UUUUUUU
50-32-8	Benzo(a) Pyrene	10	UUUUUUU
193-39-5	Indeno(1,2,3-cd) Pyrene	10	UUUUUUU
53-70-3	Dibenz(a,h)Anthracene	10	UUUUUUU
191-24-2	Benzo(g,h,i) Perylene	10	UUUUUUU

(1) - Cannot be separated from Diphenylamine
FORM I SV-2

3/90

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SW3-2-WO

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 562

SAS No.:

SDG No.: 23123

Matrix: (soil/water) WATER

Lab Sample ID: 23124

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: E1688

Level: (low/med) LOW

Date Received: 03/16/95

% Moisture: decanted: (Y/N)

Date Extracted: 03/17/95

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 03/22/95

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH:

Number TICs found: 2

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 12-34-22	Aldol Condensation Product	5.63	21	ABJN
2.	UNKNOWN CARBOXYLIC ACID	28.69	7	J

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF WATER ANALYSIS FOR TENTATIVELY IDENTIFIED
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS

CLIENT	: NM-9000 NIAGARA FALLS AFB	UNITS	: UG/L
TEST NAME	: SEMI-VOLATILES	MATRIX	: WATER
SAMPLE ID LAB	: EE-95-23124	DATE RECEIVED	: 03/16/95
SAMPLE ID CLIENT	: NM9-SW3-2-WO-031695	DATE EXTRACTED	: 03/17/95
SDG #	: 23123	DATE ANALYZED	: 03/22/95
SAMPLE VOLUME	: 1000 ML	INJECTION VOLUME	: 2.0 UL
FINAL VOLUME	: 1000 UL	DILUTION FACTOR	: 1.0

9500.562

Total hydrocarbons
present as mass 57 6

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW3-3-WO

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 562

SAS No.:

SDG No.: 23123

Matrix: (soil/water) WATER

Lab Sample ID: 23125

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: E1691

Level: (low/med) LOW

Date Received: 03/16/95

% Moisture: decanted: (Y/N)

Date Extracted: 03/17/95

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 03/22/95

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

EPC Cleanup: (Y/N) N

pH:

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

CAS NO.

COMPOUND

Q

108-95-2-----	Phenol	10	U
111-44-4-----	bis(2-Chloroethyl) Ether	10	U
95-57-8-----	2-Chlorophenol	10	U
541-73-1-----	1,3-Dichlorobenzene	10	U
106-46-7-----	1,4-Dichlorobenzene	10	U
95-50-1-----	1,2-Dichlorobenzene	10	U
95-48-7-----	2-Methylphenol	10	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5-----	4-Methylphenol	10	U
621-64-7-----	N-Nitroso-Di-n-Propylamine	10	U
67-72-1-----	Hexachloroethane	10	U
98-95-3-----	Nitrobenzene	10	U
78-59-1-----	Isophorone	10	U
88-75-5-----	2-Nitrophenol	10	U
105-67-9-----	2,4-Dimethylphenol	10	U
111-91-1-----	bis(2-Chloroethoxy)Methane	10	U
120-83-2-----	2,4-Dichlorophenol	10	U
120-82-1-----	1,2,4-Trichlorobenzene	10	U
91-20-3-----	Naphthalene	10	U
106-47-8-----	4-Chloroaniline	10	U
87-68-3-----	Hexachlorobutadiene	10	U
59-50-7-----	4-Chloro-3-Methylphenol	10	U
91-57-6-----	2-Methylnaphthalene	10	U
77-47-4-----	Hexachlorocyclopentadiene	10	U
88-06-2-----	2,4,6-Trichlorophenol	10	U
95-95-4-----	2,4,5-Trichlorophenol	50	U
91-58-7-----	2-Chloronaphthalene	10	U
88-74-4-----	2-Nitroaniline	50	U
131-11-3-----	Dimethylphthalate	10	U
208-96-8-----	Acenaphthylene	10	U
606-20-2-----	2,6-Dinitrotoluene	10	U
99-09-2-----	3-Nitroaniline	50	U
83-32-9-----	Acenaphthene	10	U

FORM I SV-1.

3/90

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW3-3-WO

Name: E & E INC. Contract: _____

Lab Code: EANDE Case No.: 562 SAS No.: _____ SDG No.: 23123

Matrix: (soil/water) WATER Lab Sample ID: 23125

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E1691

Level: (low/med) LOW Date Received: 03/16/95

% Moisture: decanted: (Y/N) Date Extracted: 03/17/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/22/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

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

Q

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
92-87-5	Benzidine	50	U
55-85-0	Benzoic Acid	50	U
100-51-6	Benzyl Alcohol	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl) Phthalate	2	J
117-84-0	Di-n-Octyl Phthalate	10	U
205-99-2	Benzo(b) Fluoranthene	10	U
207-08-9	Benzo(k) Fluoranthene	10	U
50-32-8	Benzo(a) Pyrene	10	U
193-39-5	Indeno(1,2,3-cd) Pyrene	10	U
53-70-3	Dibenz(a,h) Anthracene	10	U
191-24-2	Benzo(g,h,i) Perylene	10	U

(1) - Cannot be separated from Diphenylamine

FORM I SV-2

3/90

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SW3-3-WO

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 562

SAS No.:

SDG No.: 23123

Matrix: (soil/water) WATER

Lab Sample ID: 23125

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: E1691

Level: (low/med) LOW

Date Received: 03/16/95

% Moisture: decanted: (Y/N)

Date Extracted: 03/17/95

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 03/22/95

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GC Cleanup: (Y/N) N pH:

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

Number TICs found: 1

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 12-34-22	Aldol Condensation Product	5.63	15	ABJN

JOB NUMBER :9500.562

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NM-9000 RFI SITE 3 - NFAFB AFRES
SAMPLE ID LAB :EE-95-23123 MATRIX: WATER
SAMPLE ID CLIENT: NM9-SW3-1-WO-031695 DATE RECEIVED : 03/16/95
SDG # : 23123

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Arsenic	ND		5.0	UG/L
Lead	ND		5.0	UG/L
Antimony	ND		60	UG/L
Beryllium	ND		5.0	UG/L
Cadmium	ND		5.0	UG/L
Chromium Total	ND		10	UG/L
Copper	ND		20	UG/L
Nickel	ND		20	UG/L
Silver	ND		10	UG/L
Zinc	190		10	UG/L
Selenium	ND		5.0	UG/L
Thallium	ND		5.0	UG/L
Mercury	ND		0.20	UG/L

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

JOB NUMBER :9500.562

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NM-9000 RFI SITE 3 - NFAFB AFRES
SAMPLE ID LAB : EE-95-23124 MATRIX: WATER
SAMPLE ID CLIENT: NM9-SW3-2-WO-031695 DATE RECEIVED : 03/16/95
SDG # : 23123

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Arsenic	ND		5.0	UG/L
Lead	ND		5.0	UG/L
Antimony	ND		60	UG/L
Beryllium	ND		5.0	UG/L
Cadmium	ND		5.0	UG/L
Chromium Total	ND		10	UG/L
Copper	ND		20	UG/L
Nickel	ND		20	UG/L
Silver	ND		10	UG/L
Zinc	190		10	UG/L
Selenium	ND		5.0	UG/L
Thallium	ND		5.0	UG/L
Mercury	ND		0.20	UG/L

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

JOB NUMBER :9500.562

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NM-9000 RFI SITE 3 - NFAFB AFRES
SAMPLE ID LAB :EE-95-23125 MATRIX: WATER
SAMPLE ID CLIENT: NM9-SW3-3-WO-031695 DATE RECEIVED : 03/16/95
SDG # : 23123

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Arsenic	ND		5.0	UG/L
Lead	ND		5.0	UG/L
Antimony	ND		60	UG/L
Beryllium	ND		5.0	UG/L
Cadmium	ND		5.0	UG/L
Chromium Total	ND		10	UG/L
Copper	ND		20	UG/L
Nickel	ND		20	UG/L
Silver	ND		10	UG/L
Zinc	180		10	UG/L
Selenium	ND		5.0	UG/L
Thallium	ND		5.0	UG/L
Mercury	ND		0.20	UG/L

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER : 9500.562

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NM-9000 RFI SITE 3 - NFAFB AFRES
RESULTS IN DRY WEIGHT %SOLIDS : 73 %
SAMPLE ID LAB : EE-95-23126 MATRIX: SOLID
SAMPLE ID CLIENT: NM9-SD3-1-SO-031695 DATE RECEIVED : 03/16/95
SDG # : 23123

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Arsenic	1.9		0.68	MG/KG
Lead	24		6.8	MG/KG
Antimony	ND		8.2	MG/KG
Beryllium	ND		0.68	MG/KG
Cadmium	1.6		0.68	MG/KG
Chromium Total	4.4		1.4	MG/KG
Copper	6.1		2.7	MG/KG
Nickel	13		2.7	MG/KG
Silver	4.1		1.4	MG/KG
Zinc	900		1.4	MG/KG
Selenium	ND		0.68	MG/KG
Thallium	ND		0.68	MG/KG
Mercury	ND		0.14	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9500.562

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NM-9000 RFI SITE 3 - NFAFB AFRES

RESULTS IN DRY WEIGHT

%SOLIDS : 84 %

SAMPLE ID LAB : EE-95-23127

MATRIX: SOLID

SAMPLE ID CLIENT: NM9-SD3-2-SM-031695

DATE RECEIVED : 03/16/95

SDG # : 23123

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Arsenic	1.6		0.60	MG/KG
Lead	34		6.0	MG/KG
Antimony	ND		7.1	MG/KG
Beryllium	ND		0.60	MG/KG
Cadmium	0.82		0.60	MG/KG
Chromium Total	12		1.2	MG/KG
Copper	6.7		2.4	MG/KG
Nickel	7.7		2.4	MG/KG
Silver	2.3		1.2	MG/KG
Zinc	680		1.2	MG/KG
Selenium	ND		0.60	MG/KG
Thallium	ND		0.60	MG/KG
Mercury	ND		0.12	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER : 9500.562

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NM-9000 RFI SITE 3 - NFAFB AFRES
RESULTS IN DRY WEIGHT %SOLIDS : 78 %
SAMPLE ID LAB : EE-95-23128 MATRIX: SOLID
SAMPLE ID CLIENT: NM9-SD3-3-SO-031695 DATE RECEIVED : 03/16/95
SDG # : 23123 .

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Arsenic	1.7		0.64	MG/KG
Lead	13		6.4	MG/KG
Antimony	ND		7.7	MG/KG
Beryllium	ND		0.64	MG/KG
Cadmium	ND		0.64	MG/KG
Chromium Total	2.1		1.3	MG/KG
Copper	3.4		2.6	MG/KG
Nickel	7.2		2.6	MG/KG
Silver	3.1		1.3	MG/KG
Zinc	590		1.3	MG/KG
Selenium	ND		0.64	MG/KG
Thallium	ND		0.64	MG/KG
Mercury	ND		0.13	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

TEST CODE :SORMAT1

JOB NUMBER :9500.562

ELAP ID : 10486

Ecology and Environment, Inc.

CLIENT: NM-9000 RFI SITE 3 - NFAFB AFRES
TEST NAME: ORGANIC MATTER %
PARAMETER: Organic Matter %
SDG # : 23123

SDG # : 23123
UNITS : %
MATRIX: SOLID
DATE RECEIVED: 03/16/95

SAMPLE ID	RESULTS	Q	QNT. LIMIT
EE-95-23126 NM9-SD3-1-SO-031695	2.0		1.0
EE-95-23127 NM9-SD3-2-SM-031695	1.7		1.0
EE-95-23128 NM9-SD3-3-SO-031695	1.8		1.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE
NA = NOT APPLICABLE

Case Narrative

NM-8000 Niagara Falls IAP-ARS GW Study
9500.563; 9500.576

Samples received on 3/16/95 were at a temperature of 9 degrees C. The project manager was notified and the laboratory instructed to proceed with analyses.

The container for the Method 8270 analysis for sample MW4-1-WO was not included in the shipment received on 3/17/95. The cooler containing these sample containers was delivered to the Analytical Services Center on 3/20/95. Samples were stored on ice and arrived at 1.5 degrees C.

All aqueous volatile samples were determined to be at a pH of 7 s.u.

As requested, the extracted ion profile for m/z 57 over the entire mass chromatogram was obtained for each sample analyzed for volatile and semi-volatile compounds. A value representing the total hydrocarbons present as m/z 57 is reported for each sample. This value was obtained using the internal standard method. The total area of the m/z 57 peaks was compared to the total ion response of the first eluting internal standard assuming a response factor of 1. Since the m/z 57 is present in the internal standards added to all samples, a positive value will always be obtained.

Semi-volatile surrogate compound acceptance criterion was not met for samples MW1-9-WO, MW2-1-WO, MW4-2-WO, and MW4-3-WO. The samples were reextracted after hold time had expired and reanalyzed with acceptable surrogate recoveries. Results from both analyses are included in this report.

Samples MW2-1-WO and MW2-3-WM for metals analysis were received with insufficient preservation. The sample pH was adjusted to 2 prior to analysis.

The samples contained significant suspended material which may account for variability in the metals results.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Gary Hahn
for Gary Hahn - Manager
Analytical Services Center
April 21, 1995



ecology and environment, inc.

368 PLEASANTVIEW DRIVE, LANCASTER, NEW YORK 14086, TEL. 716/684-8060
International Specialists in the Environment

CHAIN-OF-CUSTODY RECORD

Project No: NM8060		Project Name: NIAGARA FALLS IAD-AQS GW STUDY			Project Manager: J. BASTEDO		BOTTLE LOT # IN LOG VOCS (METHOD 8240) BVA (METHOD 8270) P.P.P.P. METALS					REMARKS			
Samplers: (Signatures) <i>[Signatures]</i>		Field Team Leader: R. WATT													
STATION NUMBER	DATE	TIME	SAMPLE TYPE			SAMPLE INFORMATION EXPECTED COMPOUNDS (Concentration)*	STATION LOCATION SAMPLE ID	NUMBER OF CONTAINERS						METALS PRESERVED w/ HNO ₃	
			COMP	GRAB	AIR										
	1995														
	3-16	1220		X		LOW	NMB-MWI-1A-WT-031695	3	X						TRIP BLANK
	3-16	1626		X		LOW	✓ NMB-MWI-1A-NR-031695	5	X	X	X				BALLED RINSATE
Relinquished By: (Signature) <i>[Signature]</i>		Date/Time: 3-16-95/1620		Received By: (Signature) <i>[Signature]</i>		Relinquished By: (Signature)		Date/Time:		Received By: (Signature)		Ship Via: E&E			
Relinquished By: (Signature)		Date/Time:		Received By: (Signature)		Relinquished By: (Signature)		Date/Time:		Received By: (Signature)		BL/Airbill Number: N/A		Date: 3-16-95	
Relinquished By: (Signature)		Date/Time:		Received For Laboratory By: (Signature) <i>[Signature]</i>		Relinquished By: (Signature)		Date/Time:		Received For Laboratory By: (Signature)					

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files
*See CONCENTRATION RANGE on back of form.

F-121

ecology and environment

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388 PLEASANTVIEW DRIVE, LANCASTER, NEW YORK 14086, TEL. 718/684-8080
International Specialists in the Environment

9500.563
23129-23140

CHAIN-OF-CUSTODY RECORD

Project No.: NMB0600			Project Name: NIAGARA FALLS IAP-ARS QW STUDY			Project Manager: J. BASTEDO			REMARKS VOCs (METHOD 8240) PNA (METHOD 8270) PRIOR. POLYMETALS BOTTLE LOT #s IN LOC. METALS (WATER) PRESERV. w/ HNO ₃											
Samplers: (Signatures) <i>[Signature]</i>			Field Team Leader: R. WATT																	
STATION NUMBER	DATE 1995	TIME	SAMPLE TYPE			SAMPLE INFORMATION EXPECTED COMPOUNDS (Concentration)*	STATION LOCATION SAMPLE NO.	NUMBER OF CONTAINERS												
			COMP	GRAB	AIR															
MWI-1A	3-16	0858	X			VOCs - LOW	NMB-MWI-1A-NO-031695	5	X	X	X									
MWI-1A		0858		X			NMB-MWI-1A-WO-031695		X	X	X								Duplicate	
MWI-2		0938		X			NMB-MWI-2-WO-031695		X	X	X									
MWI-3		1036		X			NMB-MWI-3-WO-031695		X	X	X									
MWI-4A		1257		X			NMB-MWI-4A-NO-031695		X	X	X									
MWI-5		1225		X			NMB-MWI-5-NO-031695		X	X	X									
MWI-6		1425		X			NMB-MWI-6-WO-031695		X	X	X								Temp Blk 9.0, 4.0 receipt sent 3/16/95	
MWI-7		1600		X			NMB-MWI-7-WO-031695		X	X	X									
MWI-8		1429		X			NMB-MWI-8-WO-031695		X	X	X									
MWI-9		1540		X			NMB-MWI-9-WO-031695		X	X	X									
Relinquished By: (Signature) <i>[Signature]</i>			Date/Time: 3-16-95/1820			Received By: (Signature) <i>[Signature]</i>			Relinquished By: (Signature)			Date/Time:			Received By: (Signature)			Ship Via: E&E		
Relinquished By: (Signature)			Date/Time:			Received By: (Signature)			Relinquished By: (Signature)			Date/Time:			Received By: (Signature)			BL/Airbill Number: N/A		
Relinquished By: (Signature)			Date/Time:			Received For Laboratory By: (Signature) <i>[Signature]</i>			Relinquished By: (Signature)			Date/Time:			Received For Laboratory By: (Signature)			Date: 3-16-95		

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files
*See CONCENTRATION RANGE on back of form.

Ecology and environment, inc.

308 PLEASANTVIEW DRIVE, LANCASTER, NEW YORK 14086, TEL. 716/684-8060
International Specialists in the Environment

CHAIN-OF-CUSTODY RECORD

Project No.: NMB50/60		Project Name: NIAGARA FALLS IAP-AR3 GW STUDY			Project Manager: J. BASTEDO		REMARKS METALS PRES. w/HNO ₃ BOTTLE WT #'s IN LOG											
Samplers: (Signatures) <i>[Signatures]</i>					Field Team Leader: R. WATT													
STATION NUMBER	DATE	TIME	SAMPLE TYPE			SAMPLE INFORMATION EXPECTED COMPOUNDS (Concentration)*	STATION LOCATION	NUMBER OF CON-TAINERS	88-70 BVA PROP. 2000 METERS.									
			COMP	GRAB	AIR													
SW8	3-17		X			LOW	NMB-SW8-B-WO-031795	X									ACCIDENTALLY DUPLICATE	
SW8			X				NMB-SW8-B-WO-031795	X										NOT DELIVERED
SW13			X				NMB-SW9-13-WM-031795	X										WITH OTHER SAMPLE MSMS!
SW9			X				NMB-SW8-9-WO-031795	X	X									PORTIONS ON
SW10			X				NMB-SW99-10-WO-031795	X										3-17-95
SW11			X				NMB-SW11-11-WO-031795	X										
MW4-1			X				NMB-MW4-1-WO-031795	X										
																		Cooler Temp 1.5°C on receipt 2/1/12
Relinquished By: (Signature) <i>[Signature]</i>		Date/Time:		Received By: (Signature)		Relinquished By: (Signature)		Date/Time:		Received By: (Signature)		Ship Via: E&E						
Relinquished By: (Signature)		Date/Time:		Received By: (Signature)		Relinquished By: (Signature)		Date/Time:		Received By: (Signature)		BL/Airbill Number: NA						
Relinquished By: (Signature)		Date/Time: 3-20-95/1025		Received For Laboratory By: (Signature) <i>[Signature]</i>		Relinquished By: (Signature)		Date/Time:		Received For Laboratory By: (Signature)		Date: 3-20-95						

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW1-1A-WR

Job Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 563

SAS No.:

SDG No.: 23129

Matrix: (soil/water) WATER

Lab Sample ID: 23139

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: F0806

Level: (low/med) LOW

Date Received: 03/16/95

% Moisture: not dec.

Date Analyzed: 03/21/95

GC Column: VOCOL ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L Q

74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

FORM I VOA

3/90

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW1-1A-WR

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 563

SAS No.:

SDG No.: 23129

Matrix: (soil/water) WATER

Lab Sample ID: 23139

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: F0806

Level: (low/med) LOW

Date Received: 03/16/95

% Moisture: not dec.

Date Analyzed: 03/21/95

GC Column: VOCOL ID: 0.530 (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
=====	=====	=====	=====	=====

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF WATER ANALYSIS FOR TENTATIVELY IDENTIFIED
VOLATILE ORGANIC COMPOUNDS BY GC/MS

(all results in ug/L)

CLIENT	: NM-8000 NIAGARA FALLS AFB	UNITS	: UG/L
TEST NAME	: PURGEABLES	MATRIX	: WATER
SAMPLE ID LAB	: EE-95-23139	DATE RECEIVED	: 03/16/95
SAMPLE ID CLIENT	: NM8-MW1-1A-WR-031695	DATE EXTRACTED	: NA
SDG #	: 23129	DATE ANALYZED	: 03/21/95
SAMPLE VOLUME	: 5.0 mL	INJECTION VOLUME	: NA
FINAL VOLUME	: NA	DILUTION FACTOR	: 1.0

9500.563

Total Hydrocarbons Present as m/z 57 - 3

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW1-1A-WT

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 563

SAS No.:

SDG No.: 23129

Matrix: (soil/water) WATER

Lab Sample ID: 23140

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: F0823

Level: (low/med) LOW

Date Received: 03/16/95

% Moisture: not dec.

Date Analyzed: 03/21/95

GC Column: VOCOL ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

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

Q

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

FORM I VOA

3/90

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW1-1A-WT

Client Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 563

SAS No.:

SDG No.: 23129

Matrix: (soil/water) WATER

Lab Sample ID: 23140

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: F0823

Level: (low/med) LOW

Date Received: 03/16/95

% Moisture: not dec.

Date Analyzed: 03/21/95

GC Column: VOCOL ID: 0.530 (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

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF WATER ANALYSIS FOR TENTATIVELY IDENTIFIED
VOLATILE ORGANIC COMPOUNDS BY GC/MS

(all results in ug/L)

CLIENT	: NM-8000 NIAGARA FALLS AFB	
TEST NAME	: PURGEABLES	UNITS : UG/L
SAMPLE ID LAB	: EE-95-23140	MATRIX: WATER
SAMPLE ID CLIENT	: NM8-MW1-1A-WT-031695	DATE RECEIVED : 03/16/95
SDG #	: 23129	DATE EXTRACTED: NA
		DATE ANALYZED : 03/21/95
SAMPLE VOLUME:	5.0 mL	INJECTION VOLUME: NA
FINAL VOLUME :	NA	DILUTION FACTOR : 1.0

9500.563

Total Hydrocarbons Present as m/z 57 - 3

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW1-1A-WR

Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 563

SAS No.:

SDG No.: 23129

Matrix: (soil/water) WATER

Lab Sample ID: 23139

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: E1715

Level: (low/med) LOW

Date Received: 03/16/95

% Moisture: decanted: (Y/N)

Date Extracted: 03/17/95

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 03/24/95

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH:

CONCENTRATION UNITS:

CAS NO.

COMPOUND

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

Q

108-95-2-----	Phenol	10	U
111-44-4-----	bis(2-Chloroethyl) Ether	10	U
95-57-8-----	2-Chlorophenol	10	U
541-73-1-----	1,3-Dichlorobenzene	10	U
106-46-7-----	1,4-Dichlorobenzene	10	U
95-50-1-----	1,2-Dichlorobenzene	10	U
95-48-7-----	2-Methylphenol	10	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5-----	4-Methylphenol	10	U
621-64-7-----	N-Nitroso-Di-n-Propylamine	10	U
67-72-1-----	Hexachloroethane	10	U
98-95-3-----	Nitrobenzene	10	U
78-59-1-----	Isophorone	10	U
88-75-5-----	2-Nitrophenol	10	U
105-67-9-----	2,4-Dimethylphenol	10	U
111-91-1-----	bis(2-Chloroethoxy)Methane	10	U
120-83-2-----	2,4-Dichlorophenol	10	U
120-82-1-----	1,2,4-Trichlorobenzene	10	U
91-20-3-----	Naphthalene	10	U
106-47-8-----	4-Chloroaniline	10	U
87-68-3-----	Hexachlorobutadiene	10	U
59-50-7-----	4-Chloro-3-Methylphenol	10	U
91-57-6-----	2-Methylnaphthalene	10	U
77-47-4-----	Hexachlorocyclopentadiene	10	U
88-06-2-----	2,4,6-Trichlorophenol	10	U
95-95-4-----	2,4,5-Trichlorophenol	50	U
91-58-7-----	2-Chloronaphthalene	10	U
88-74-4-----	2-Nitroaniline	50	U
131-11-3-----	Dimethylphthalate	10	U
208-96-8-----	Acenaphthylene	10	U
606-20-2-----	2,6-Dinitrotoluene	10	U
99-09-2-----	3-Nitroaniline	50	U
83-32-9-----	Acenaphthene	10	U

FORM I SV-1

3/90

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW1-1A-WR

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 563

SAS No.:

SDG No.: 23129

Matrix: (soil/water) WATER

Lab Sample ID: 23139

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: E1715

Level: (low/med) LOW

Date Received: 03/16/95

% Moisture: decanted: (Y/N)

Date Extracted: 03/17/95

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 03/24/95

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

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

CAS NO.

COMPOUND

Q

51-28-5-----	2,4-Dinitrophenol	50	U
100-02-7-----	4-Nitrophenol	50	U
132-64-9-----	Dibenzofuran	10	U
121-14-2-----	2,4-Dinitrotoluene	10	U
84-66-2-----	Diethylphthalate	10	U
7005-72-3-----	4-Chlorophenyl-phenylether	10	U
86-73-7-----	Fluorene	10	U
100-01-6-----	4-Nitroaniline	50	U
534-52-1-----	4,6-Dinitro-2-methylphenol	50	U
86-30-6-----	N-Nitrosodiphenylamine (1)	10	U
101-55-3-----	4-Bromophenyl-phenylether	10	U
118-74-1-----	Hexachlorobenzene	10	U
87-86-5-----	Pentachlorophenol	50	U
85-01-8-----	Phenanthrene	10	U
120-12-7-----	Anthracene	10	U
86-74-8-----	Carbazole	10	U
84-74-2-----	Di-n-Butylphthalate	10	U
206-44-0-----	Fluoranthene	10	U
129-00-0-----	Pyrene	10	U
85-68-7-----	Butylbenzylphthalate	10	U
91-94-1-----	3,3'-Dichlorobenzidine	20	U
56-55-3-----	Benzo (a) Anthracene	10	U
218-01-9-----	Chrysene	10	U
117-81-7-----	bis (2-Ethylhexyl) Phthalate	10	U
117-84-0-----	Di-n-Octyl Phthalate	10	U
205-99-2-----	Benzo (b) Fluoranthene	10	U
207-08-9-----	Benzo (k) Fluoranthene	10	U
50-32-8-----	Benzo (a) Pyrene	10	U
193-39-5-----	Indeno (1,2,3-cd) Pyrene	10	U
53-70-3-----	Dibenz (a,h) Anthracene	10	U
191-24-2-----	Benzo (g,h,i) Perylene	10	U
92-87-5-----	Benzidine	50	U
55-85-0-----	Benzoic Acid	50	U
191-24-2-----	Benzyl Alcohol	10	U

(1) - Cannot be separated from Diphenylamine

FORM I SV-2

3/90

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF WATER ANALYSIS FOR TENTATIVELY IDENTIFIED /
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS

(all results in ug/L)

SAMPLE VOLUME: 1000 mL
FINAL VOLUME (BN): 1.0 mL
FINAL VOLUME (AP): 1.0 mL

DATE RECEIVED : 03/16/95
DATE EXTRACTED: 03/17/95
DATE ANALYZED : 03/24/95
INJECTION VOLUME: 2 uL
DILUTION FACTOR: 1.0

9500.563

E & E Lab.
No. 95- 23139

Compound Sample
 Identity NM8-MW1-1A-WR-031695

Total Hydrocarbons Present as m/z 57 - 5

JOB NUMBER : 9500.563

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NM-8000 NIAGARA FALLS AFB
SAMPLE ID LAB : EE-95-23139 MATRIX: WATER
SAMPLE ID CLIENT: NM8-MW1-1A-WR-031695 DATE RECEIVED : 03/16/95
SDG # : 23129

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Arsenic	ND		5.0	UG/L
Lead	ND		5.0	UG/L
Antimony	ND		60	UG/L
Beryllium	ND		5.0	UG/L
Cadmium	ND		5.0	UG/L
Chromium Total	ND		10	UG/L
Copper	ND		20	UG/L
Nickel	ND		20	UG/L
Silver	ND		10	UG/L
Zinc	ND		10	UG/L
Selenium	ND		5.0	UG/L
Thallium	ND		5.0	UG/L
Mercury	ND		0.20	UG/L

QUALIFIERS: C = COMMENT
J = ESTIMATED VALUE

ND = NOT DETECTED

Case Narrative
NM-9000 Niagara Falls IAP-ARS Study
9500.585; 9500.595

All aqueous volatile samples received on March 20 were determined to be at a pH of 6 s.u. Volatile samples MW7-1-WO and MW7-2-WO were at a pH of 8 s.u. Sample MW7-4-WO was determined to be at a pH of 7 s.u.

As requested, the extracted ion profile for m/z 57 over the entire mass chromatogram was obtained for each sample analyzed for volatile and semi-volatile compounds. A value representing the total hydrocarbons present as m/z 57 is reported for each sample. This value was obtained using the internal standard method. The total area of the m/z 57 peaks was compared to the total ion response of the first eluting internal standard assuming a response factor of 1. Since the m/z 57 is present in the internal standards added to all samples, a positive value will always be obtained.

The level of trichloroethene and cis-1,2-dichloroethene detected in sample MW8-1-WO exceeded the instrument's calibrated range. The sample was reanalyzed at a secondary dilution. Results from both analyses are included in this report.

Recovery of the acid phenol surrogate compounds was low for samples MW8-1-WO and MW8-4-WO. The samples were reextracted after hold time had expired and reanalyzed with acceptable surrogate recovery. Results from both analyses are included in this report.

Recovery of two base neutral surrogate compounds was low for the method blank SBLKW2. Recoveries for the associated sample MW8-1-WORE were within acceptable limits. No further action was taken.

Extremely low recoveries of 4-nitrophenol and pentachlorophenol were obtained in the matrix spike/spike duplicate analysis of sample MW5-3A-WM. A matrix interference is indicated.

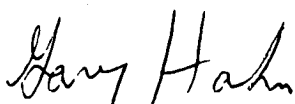
Recovery of pentachlorophenol in the laboratory control sample was just above the acceptable limit. No corrective action was taken.

Response of pentachlorophenol was low in the continuing calibration standard associated with sample analyzed on March 31. Response was sufficient for detection of pentachlorophenol. It was not found in the associated samples.

Case Narrative
NM-9000 Niagara Falls IAP-ARS Study
9500.585; 9500.595
Page 2 of 2

Recovery of selenium and thallium in the matrix spike analysis was below the 75% limit. A post-digestion analytical spike was performed with similar recoveries indicating a matrix interference.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.


Gary Hahn - Manager
Analytical Services Center
April 25, 1995

CHAIN-OF-CUSTODY RECORD

Project No.: NM-8060		Project Name: Niagara Falls IAP-ARS GW Study			Project Manager: J. Bostedo		REMARKS								
Samplers: (Signature)		Field Team Leader: R. Watt													
STATION NUMBER	DATE	TIME	SAMPLE TYPE			SAMPLE INFORMATION	STATION LOCATION	NUMBER OF CONTAINERS	VOL PP Metals ANA TRPH PCB						
			COMP	GRAB	AIR									EXPECTED COMPOUNDS (Concentration)*	
SB3-6	9/20/95	1410		X		Low	NM9-SB3-6-SO-032095	3	X	X	X	X			Soil 0-4'
MW81	↓	1505		X			NM8-MW8-1-WO-032095	6	X	X	X	X			
MW83	↓	1520		X			NM8-MW8-3-WO-032095	6	X	X	X	X			
<i>Full</i>															
Relinquished By: (Signature)		Date/Time: 3-20-95/920		Received By: (Signature) _____		Relinquished By: (Signature) _____		Date/Time: _____		Received By: (Signature) _____		Ship Via: EOE			
Relinquished By: (Signature) _____		Date/Time: _____		Received By: (Signature) _____		Relinquished By: (Signature) _____		Date/Time: _____		Received By: (Signature) _____		BL/Airbill Number: N/A			
Relinquished By: (Signature) _____		Date/Time: _____		Received For Laboratory By: (Signature)		Relinquished By: (Signature) _____		Date/Time: _____		Received For Laboratory By: (Signature) _____		Date: 3-20-95			

F-1740

recycled paper

ecology and environment, inc.

368 PLEASANTVIEW DRIVE, LANCASTER, NEW YORK 14086, TEL. 716/684-8060
International Specialists in the Environment

CHAIN OF CUSTODY RECORD

Project No.: NM5060		Project Name: Niagara Falls IAP-ARS GW STUDY			Project Manager: J. Bastedo		REMARKS							
Samplers: (Signatures) <i>R. Watt</i> <i>R. Bastedo</i>		Field Team Leader: R. WATT												
STATION NUMBER	DATE	TIME	SAMPLE TYPE			SAMPLE INFORMATION	STATION LOCATION	NUMBER OF CONTAINERS	VOC's	PP	SUA	TRM	PCBS	METALS (WATER) PRES W/HNO ₃ BOTTLE LOT No's IN LOG
			COMP	GRAB	AIR									
MW5-1A	1995	1125	X			LOW	NMB-MW5-1A-W008-032095	5	X	X	X			
MW5-2		1020					NMB-MW5-2-W008-032095	5	X	X	X			
MW5-2		1020					NMB-MW5-2-WD-032095	5	X	X	X			dupe
MW5-3A		0840					NMB-MW5-3A-W008-032095	15	X	X	X			MS/MSD
MW5-4		1015					NMB-MW5-4-W008-032095	5	X	X	X			
MW5-5		0850					NMB-MW5-5-W008-032095	5	X	X	X			
MW8-20		1425					NMB-MW8-20-W008-032095	6	X	X	X	X		
MW8-4		1410					NMB-MW8-4-W008-032095	6	X	X	X	X		
MW8-6		1355					NMB-MW8-6-W008-032095	6	X	X	X	X		
MW5-1A		1125					NMB-MW5-1A-WT-032095	3	X					
MW5-1A		1125					NMB-MW5-1A-UC-032095	5	X	X	X			
S83-3		1440					NM9-SB3-3-SO-032095	3	X	X	X	X		Soil 2-35'
S83-4		1510					NM9-SB3-4-SO-032095	3	X	X	X	X		Soil 2-50'
S83-5		1540					NM9-SB3-5-SO-032095	3	X	X	X	X		Soil 4-6'
Relinquished By: (Signature) <i>R. Watt</i>		Date/Time: 3-20-95/1925	Received By: (Signature) _____		Date/Time: _____	Received By: (Signature) _____		Ship Via: E&E						
Relinquished By: (Signature) _____		Date/Time: _____	Received By: (Signature) _____		Date/Time: _____	Received By: (Signature) _____		BL/Airbill Number: NA			Date: 3-20-95			
Relinquished By: (Signature) _____		Date/Time: _____	Received For Laboratory By: (Signature) <i>R. Bastedo</i>		Date/Time: _____	Received For Laboratory By: (Signature) _____								

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CHAIN-OF-CUSTODY RECORD

Project No.: NMB0600		Project Name: NIAGARA FALLS IAP ARS GW STUDY			Project Manager: J. BASTEDO		<div style="text-align: center;"> <p>REMARKS</p> <p>METALS PRES. w/ HNO₃</p> <p>BOTTLE LOT #'S IN LOG</p> </div>											
Samplers: (Signatures)					Field Team Leader: R. WATT								<div style="text-align: center;"> <p>BLIND VOLS</p> <p>B-70 BNA</p> <p>B-800 PUB</p> <p>TRIP BLANK</p> <p>B-800 PUB/PLDE</p> </div>					
Station Number		Date	Time	Sample Type	Sample Information													
					EXPECTED COMPOUNDS (Concentration)*													
MWB-5A	3-21	0946		✓	(Low)	NMB-MWB-5A-WO-032195	6	x	x	x	x							
MWB-7		1011				NMB-MWB-7-WO-032195	6	x	x	x	x							
MWB-70		1005				NMB-MWB-70-WO-032195	6	x	x	x	x							
MWB-B		0955				NMB-MWB-B-WO-032195	6	x	x	x	x							
MWB-4D		1017				NMB-MWB-4D-WO-032195	6	x	x	x	x							
MWB-100		0928				NMB-MWB-100-WO-032195	6	x	x	x	x							
MW7-1		1350				NMB-MW7-1-WO-032195	5	x	x		x							
MW7-2		1325				NMB-MW7-2-WO-032195	5	x	x		x							
MW7-3		1405				NMB-MW7-3-WO-032195	4	x			x	NOT ENOUGH WATER TO GET BNA TODAY						
MW7-4		1335				NMB-MW7-4-WO-032195	5	x	x		x							
MW7-4D		1340				NMB-MW7-4D-WO-032195	5	x	x		x							
MW10-1						NMB-MW10-1-WO-032195	7	x	x	x	x	x						
		1535				NMB-MW7-1-WR-032195	7	x	x	x	x	RINSTATE						
		1140				NMB-MW7-1-WT-032195	3	x				TRIP BLANK						
Relinquished By: (Signature)		Date/Time:		Received By: (Signature)		Relinquished By: (Signature)		Date/Time:		Received By: (Signature)		Ship Via:						
V. Watt		3/21/95/1800										E&E						
Relinquished By: (Signature)		Date/Time:		Received By: (Signature)		Relinquished By: (Signature)		Date/Time:		Received By: (Signature)		BL/Airbill Number:						
												WA						
Relinquished By: (Signature)		Date/Time:		Received For Laboratory By: (Signature)		Relinquished By: (Signature)		Date/Time:		Received For Laboratory By: (Signature)		Date:						
				R. Watt								3-21-95						

F-142

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files
*See CONCENTRATION RANGE on back of form.

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW5-1A-WR

Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 585

SAS No.:

SDG No.: 23296

Matrix: (soil/water) WATER

Lab Sample ID: 23299

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: F0907

Level: (low/med) LOW

Date Received: 03/20/95

% Moisture: not dec.

Date Analyzed: 03/24/95

GC Column: VOCOL ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

1E
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW5-1A-WR

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 585

SAS No.:

SDG No.: 23296

Matrix: (soil/water) WATER

Lab Sample ID: 23299

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: F0907

Level: (low/med) LOW

Date Received: 03/20/95

% Moisture: not dec.

Date Analyzed: 03/24/95

GC Column: VOCOL ID: 0.530 (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

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF WATER ANALYSIS FOR TENTATIVELY IDENTIFIED
VOLATILE ORGANIC COMPOUNDS BY GC/MS

CLIENT : NM-8000 NIAGARA FALLS AFB
TEST NAME : PURGEABLES
SAMPLE ID LAB : EE-95-23299
SAMPLE ID CLIENT: NM8-MW5-1A-WR-032095
SDG # : 23296

SAMPLE VOLUME: 5.0 ML
FINAL VOLUME : NA

UNITS : UG/L
MATRIX: WATER
DATE RECEIVED : 03/20/95
DATE EXTRACTED: NA
DATE ANALYZED : 03/24/95
INJECTION VOLUME: NA
DILUTION FACTOR : 1.0

9500.585

Total Hydrocarbons Present as m/z 57 - 3

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW5-1A-WT

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 585

SAS No.:

SDG No.: 23296

Matrix: (soil/water) WATER

Lab Sample ID: 23308

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: F0918

Level: (low/med) LOW

Date Received: 03/20/95

% Moisture: not dec.

Date Analyzed: 03/24/95

GC Column: VOCOL ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

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

Q

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

FORM I VOA

3/90

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF WATER ANALYSIS FOR TENTATIVELY IDENTIFIED
VOLATILE ORGANIC COMPOUNDS BY GC/MS

CLIENT	: NM-8000 NIAGARA FALLS AFB	UNITS	: UG/L
TEST NAME	: PURGEABLES	MATRIX	: WATER
SAMPLE ID LAB	: EE-95-23308	DATE RECEIVED	: 03/20/95
SAMPLE ID CLIENT	: NMS-MW5-1A-WT-032095	DATE EXTRACTED	: NA
SDG #	: 23296	DATE ANALYZED	: 03/24/95
SAMPLE VOLUME	: 5.0 ML	INJECTION VOLUME	: NA
FINAL VOLUME	: NA	DILUTION FACTOR	: 1.0

9500.585

Total Hydrocarbons Present as m/z 57 - 3

0 30

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW5-1A-WR

Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 585

SAS No.:

SDG No.: 23296

Matrix: (soil/water) WATER

Lab Sample ID: 23299

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: B5840

Level: (low/med) LOW

Date Received: 03/20/95

% Moisture: decanted: (Y/N)

Date Extracted: 03/22/95

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 03/31/95

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH:

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

CAS NO.

COMPOUND

Q

108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	UU
95-57-8	2-Chlorophenol	10	UUU
541-73-1	1,3-Dichlorobenzene	10	UUUU
106-46-7	1,4-Dichlorobenzene	10	UUUU
95-50-1	1,2-Dichlorobenzene	10	UUUU
95-48-7	2-Methylphenol	10	UUUU
108-60-1	2,2'-oxybis(1-Chloropropane)	10	UUUU
106-44-5	4-Methylphenol	10	UUUU
621-64-7	N-Nitroso-Di-n-Propylamine	10	UUUU
67-72-1	Hexachloroethane	10	UUUU
98-95-3	Nitrobenzene	10	UUUU
78-59-1	Isophorone	10	UUUU
88-75-5	2-Nitrophenol	10	UUUU
105-67-9	2,4-Dimethylphenol	10	UUUU
111-91-1	bis(2-Chloroethoxy)Methane	10	UUUU
120-83-2	2,4-Dichlorophenol	10	UUUU
120-82-1	1,2,4-Trichlorobenzene	10	UUUU
91-20-3	Naphthalene	10	UUUU
106-47-8	4-Chloroaniline	10	UUUU
87-68-3	Hexachlorobutadiene	10	UUUU
59-50-7	4-Chloro-3-Methylphenol	10	UUUU
91-57-6	2-Methylnaphthalene	10	UUUU
77-47-4	Hexachlorocyclopentadiene	10	UUUU
88-06-2	2,4,6-Trichlorophenol	10	UUUU
95-95-4	2,4,5-Trichlorophenol	50	UUUU
91-58-7	2-Chloronaphthalene	10	UUUU
88-74-4	2-Nitroaniline	50	UUUU
131-11-3	Dimethylphthalate	10	UUUU
208-96-8	Acenaphthylene	10	UUUU
606-20-2	2,6-Dinitrotoluene	10	UUUU
99-09-2	3-Nitroaniline	50	UU
83-32-9	Acenaphthene	10	U

FORM I SV-1

3/90

1G
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW5-1A-WR

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 585

SAS No.:

SDG No.: 23296

Matrix: (soil/water) WATER

Lab Sample ID: 23299

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: B5840

Level: (low/med) LOW

Date Received: 03/20/95

% Moisture: decanted: (Y/N)

Date Extracted: 03/22/95

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 03/31/95

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH:

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

Q

CAS NO.

COMPOUND

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5-----	2,4-Dinitrophenol	50	U
100-02-7-----	4-Nitrophenol	50	U
132-64-9-----	Dibenzofuran	10	U
121-14-2-----	2,4-Dinitrotoluene	10	U
84-66-2-----	Diethylphthalate	10	U
7005-72-3-----	4-Chlorophenyl-phenylether	10	U
86-73-7-----	Fluorene	10	U
100-01-6-----	4-Nitroaniline	50	U
534-52-1-----	4,6-Dinitro-2-methylphenol	50	U
86-30-6-----	N-Nitrosodiphenylamine (1)	10	U
101-55-3-----	4-Bromophenyl-phenylether	10	U
118-74-1-----	Hexachlorobenzene	10	U
87-86-5-----	Pentachlorophenol	50	U
85-01-8-----	Phenanthrene	10	U
120-12-7-----	Anthracene	10	U
86-74-8-----	Carbazole	10	U
84-74-2-----	Di-n-Butylphthalate	10	U
206-44-0-----	Fluoranthene	10	U
92-87-5-----	Benzidine	50	U
55-85-0-----	Benzoic Acid	50	U
100-51-6-----	Benzyl Alcohol	10	U
129-00-0-----	Pyrene	10	U
85-68-7-----	Butylbenzylphthalate	10	U
91-94-1-----	3,3'-Dichlorobenzidine	20	U
56-55-3-----	Benzo(a)Anthracene	10	U
218-01-9-----	Chrysene	10	U
117-81-7-----	bis(2-Ethylhexyl) Phthalate	10	U
117-84-0-----	Di-n-Octyl Phthalate	10	U
205-99-2-----	Benzo(b) Fluoranthene	10	U
207-08-9-----	Benzo(k) Fluoranthene	10	U
50-32-8-----	Benzo(a) Pyrene	10	U
193-39-5-----	Indeno(1,2,3-cd) Pyrene	10	U
53-70-3-----	Dibenz(a,h) Anthracene	10	U
191-24-2-----	Benzo(g,h,i) Perylene	10	U

(1) - Cannot be separated from Diphenylamine

FORM I SV-2

3/90

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW5-1A-WR

Name: E & E INC. Contract:
 Lab Code: EANDE Case No.: 585 SAS No.: SDG No.: 23296
 Matrix: (soil/water) WATER Lab Sample ID: 23299
 Sample wt/vol: 1000 (g/mL) ML Lab File ID: B5840
 Level: (low/med) LOW Date Received: 03/20/95
 % Moisture: decanted: (Y/N) Date Extracted: 03/22/95
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/31/95
 Injection Volume: 2.0(uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH:

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

Number TICs found: 2

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 12-34-22	Aldol Condensation Product	4.32	220	ABJN
2.	UNKNOWN	34.07	7	J

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF WATER ANALYSIS FOR TENTATIVELY IDENTIFIED
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS

CLIENT : NM-8000 NIAGARA FALLS AFB
TEST NAME : SEMI-VOLATILES UNITS : UG/L
SAMPLE ID LAB : EE-95-23299 MATRIX: WATER
SAMPLE ID CLIENT: NM8-MW5-1A-WR-032095 DATE RECEIVED : 03/20/95
SDG # : 23296 DATE EXTRACTED: 03/22/95
DATE ANALYZED : 03/31/95
SAMPLE VOLUME: 1000 ML INJECTION VOLUME: 2.0 UL
FINAL VOLUME : 1000 UL DILUTION FACTOR : 1.0

9500.585

Total hydrocarbons
present as mass 57 7

JOB NUMBER : 9500.585

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NM-8000 NIAGARA FALLS AFB
SAMPLE ID LAB : EE-95-23299 MATRIX: WATER
SAMPLE ID CLIENT: NM8-MW5-1A-WR-032095 DATE RECEIVED : 03/20/95
SDG # : 23296

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Arsenic	ND		5.0	UG/L
Lead	ND		5.0	UG/L
Antimony	ND		60	UG/L
Beryllium	ND		5.0	UG/L
Cadmium	ND		5.0	UG/L
Chromium Total	ND		10	UG/L
Copper	ND		20	UG/L
Nickel	ND		20	UG/L
Silver	ND		10	UG/L
Zinc	ND		10	UG/L
Selenium	ND		5.0	UG/L
Thallium	ND		5.0	UG/L
Mercury	ND		0.20	UG/L

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

Case Narrative
NM-8000 Niagara Falls AFB
9500.596; 9500.610

All aqueous volatile samples were determined to be at a pH of 6 to 7 s.u.

As requested, the extracted ion profile for m/z 57 over the entire mass chromatogram was obtained for each sample analyzed for volatile and semi-volatile compounds. A value representing the total hydrocarbons present as m/z 57 is reported for each sample. This value was obtained using the internal standard method. The total area of the m/z 57 peaks was compared to the total ion response of the first eluting internal standard assuming a response factor of 1. Since the m/z 57 is present in the internal standards added to all samples, a positive value will always be obtained.

The level of trichloroethene and cis-1,2-dichloroethene detected in sample MW10-2-WO and MW10-4-WO exceeded the instrument's calibrated range. The sample was reanalyzed at a secondary dilution. Results from both analyses are included in this report.

Recovery of the surrogate compound toluene-d8 was slightly high at 115% (Upper limit - 110%). This discrepancy was not discovered until hold time had expired. The sample was not reanalyzed.

Extremely low recoveries of 4-nitrophenol and pentachlorophenol were obtained in the matrix spike/spike duplicate analysis of sample MW10-3D-WM. A matrix interference is indicated.

Recovery of the PCB laboratory control sample extracted on 3/23 was low at 51%. The sample matrix spike/spike duplicate recoveries were within acceptable limits as well as all associated sample surrogate recoveries. No further action was taken.

Recovery of silver was low in the laboratory control sample. No corrective action is required for this element.

Recovery of selenium and lead in the matrix spike analysis was below the 75% limit. A post-digestion analytical spike was performed for selenium with similar recoveries indicating a matrix interference.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.



Gary Hahn - Manager
Analytical Services Center
April 27, 1995

F-155



CHAIN-OF-CUSTODY RECORD

Project No.: NMB0060		Project Name: NIAGARA FALLS IAP ARS GW STUDY			Project Manager: J. BASTEDO				
Samplers: (Signatures)				Field Team Leader: R. WATT		REMARKS			
STATION NUMBER	DATE	TIME	SAMPLE TYPE	SAMPLE INFORMATION	STATION-LOCATION-SAMPLE NO.		NUMBER OF CON-TAINERS		
	1995		COMP GRAB AIR	EXPECTED COMPOUNDS (Concentration)*					
MWB-SA	3-21	0915	✓	(Low)	NMB-MWB-SA-WO-032195	6	X X X X	METALS PAGES W/ HNO ₃ BOTTLE LOT #'S IN LOG	
MWB-7		1011			NMB-MWB-7-WO-032195	6	X X X X		
MWB-7D		1005			NMB-MWB-7D-WO-032195	6	X X X X		
MWB-8		0955			NMB-MWB-8-WO-032195	6	X X X X		
MWB-9D		1017			NMB-MWB-9D-WO-032195	6	X X X X		
MWB-10B		0928			NMB-MWB-10B-WO-032195	6	X X X X		
MW7-1		1350			NMB-MW7-1-WO-032195	5	X X X		
MW72		1325			NMB-MW7-2-WO-032195	5	X X X		
MW73		1405			NMB-MW7-3-WO-032195	4	X X X		NOT ENOUGH WATER TO GET BNA TODAY
MW74		1335			NMB-MW7-4-WO-032195	5	X X X		S+c Job # 9520.595
MW74D		1340			NMB-MW7-4D-WO-032195	5	X X X		
MW10-1		1535			NMB-MW10-1-WO-032195	7	X X X X X		
		1140			NMB-MW7-1-WE-032195	7	X X X X X		RINSATE
					NMB-MW7-1-WT-032195	3	X X X	TRIP BLANK	

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Relinquished By: (Signature) <i>[Signature]</i>	Date/Time: 3-21-95/1800	Received By: (Signature) <i>[Signature]</i>	Relinquished By: (Signature)	Date/Time:	Received By: (Signature)
Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Relinquished By: (Signature)	Date/Time:	Received By: (Signature)
Relinquished By: (Signature)	Date/Time:	Received For Laboratory By: (Signature) <i>[Signature]</i>	Relinquished By: (Signature)	Date/Time:	Received For Laboratory By: (Signature)

Ship Via: E&E

BL/Airbill Number: NA

Date: 3-21-95

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files
*See CONCENTRATION RANGE on back of form.



ecology and environment, inc.

388 PLEASANTVIEW DRIVE, LANCASTER, NEW YORK 14086, TEL. 716/684-8080
International Specialists in the Environment

CHAIN-OF-CUSTODY RECORD

Project No.: <u>NE18060</u>		Project Name: <u>NAGARA FALLS HAARS GW STUDY</u>				Project Manager: <u>J. BASTEDO</u>		REMARKS <u>1.0</u> <u>BOTTLE LOT #'S IN LOT.</u> <u>METALS PRES. W/ HNO₃ TO pH < 2</u> <u>Temp Blanks: 0.5</u> <u>0.5</u> <u>2.0</u> <u>upon receipt 3/21/95</u>							
Sample(s): (Signature) <u>[Signature]</u>		Field Team Leader: <u>R. WATT</u>											0240 VCS 0270 ANVA 0280 PLS 0280 TCDU/DU/DEF 0290 POL. METALS		
STATION NUMBER	DATE 1995	TIME	SAMPLE TYPE			SAMPLE INFORMATION EXPECTED COMPOUNDS (Concentration)*	STATION LOCATION SAMPLE NO.	NUMBER OF CONTAINERS	X X X X X	X X X X X					
			COMP	GRAB	AIR										
<u>MW102</u>	<u>3/20</u>	<u>1600</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>(Low)</u>	<u>NMB-MW10-7-WO-032195</u>								
	<u>21</u>	<u>RECEIVED ON 3/21/95</u>													
Relinquished By: (Signature) <u>[Signature]</u>			Date/Time: <u>3-21-95/1800</u>			Received By: (Signature) <u>[Signature]</u>		Relinquished By: (Signature)		Date/Time:		Received By: (Signature)		Ship Via: <u>EE</u>	
Relinquished By: (Signature)			Date/Time:			Received By: (Signature)		Relinquished By: (Signature)		Date/Time:		Received By: (Signature)		BL/Airbill Number: <u>UA</u>	
Relinquished By: (Signature)			Date/Time:			Received For Laboratory By: (Signature) <u>[Signature]</u>		Relinquished By: (Signature)		Date/Time:		Received For Laboratory By: (Signature)		Date: <u>3-21-95</u>	

[Handwritten Signature]

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ecology and environment

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files
See CONCENTRATION RANGE on back of form.

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CHAIN-OF-CUSTODY RECORD

Project No.: NM 2000		Project Name: NIAGARA FALLS IAP-ARS (AW STUDY)			Project Manager: J. BASTEDO		<div style="text-align: right;">REMARKS</div> <div style="text-align: center;"> <p>5240 VOCs</p> <p>5270 BVA</p> <p>8200 PCBs</p> <p>PRPC: PPM METALS</p> </div>																					
Samplers: (Signatures) <i>[Signatures]</i>					Field Team Leader: R. WATT																							
STATION NUMBER		DATE		TIME		SAMPLE TYPE											SAMPLE INFORMATION			STATION LOCATION		NUMBER OF CON-TAINERS						
		1995				COMP GRAB AIR			EXPECTED COMPOUNDS (Concentration)*			SAMPLE NO.																
MW10-2		3-22		1000		X			LDW			NMB-MW10-2-WO-032295		6	X	X	X	X										
MW10-3				1100		X						NMB-MW10-3-WO-032295		6	X	X	X	X	Temp Blanks: 1) 2.0 upon									
MW10-4				1425		X						NMB-MW10-4-WO-032295		6	X	X	X	X	2) 2.0 m.p.g.									
MW10-5D				1115		X						NMB-MW10-5D-WO-032295		6	X	X	X	X	3) 3.0									
MW10-6D				1135		X						NMB-MW10-6D-WO-032295		6	X	X	X	X	4) 1.5 7/2/45									
MW10-8				1045		X						NMB-MW10-8-WO-032295		6	X	X	X	X										
MW10-9D				1410		X						NMB-MW10-9D-WO-032295		6	X	X	X	X										
MW10-3D				1455		X						012-MW10-3D-NM-032295		18	X	X	X	X	MS/MSD									
MW1-3				1150		X						NMB-MW1-3-WO-032295		1	X				REMAINDER OF SAMPLE TO COLLECTED 3-21-95									
				1545		X						NMB-MW10-2-WR-032295		6	X	X	X	X	RINSTATE									
				0830		X						NMB-MW10-2-WT-032295		3	X				TRIP BLANK									

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Relinquished By: (Signature) <i>[Signature]</i>		Date/Time: 3-22-95/1815		Received By: (Signature) <i>[Signature]</i>		Relinquished By: (Signature)		Date/Time:		Received By: (Signature)		Ship Via: E&E	
Relinquished By: (Signature)		Date/Time:		Received By: (Signature)		Relinquished By: (Signature)		Date/Time:		Received By: (Signature)		BL/Airbill Number: NA	
Relinquished By: (Signature)		Date/Time:		Received For Laboratory By: (Signature) <i>[Signature]</i>		Relinquished By: (Signature)		Date/Time:		Received For Laboratory By: (Signature)		Date: 3-22-95	

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files
*See CONCENTRATION RANGE on back of form.

To be included with all lab data and with each workplan

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

**SAMPLE IDENTIFICATION AND
ANALYTICAL REQUIREMENT SUMMARY**

Customer Sample Code	Laboratory Sample Code	Analytical Requirements					
		*VOA GC/MS Method #	*BNA GC/MS Method #	*VOA GC Method #	*Pest PCBs Method #	*Metals	*Other
MW7-4D-WO	23353	8270	8270		8080	PRIORITY RESULTS	
MW8-5A-WO	23354						
MW8-7-WO	23355						
MW8-7D-WO	23356						
MW8-8-WO	23357						
MW8-9D-WO	23358						
MW8-10D-WO	23359						
MW7-1-WR	23360						
MW10-1-WO	23361						
MW10-7-WO	23362						
MW7-3-WO	23363/23444						
MW7-1-WT	23364						
MW10-2-WO	23445		8270		8080	PRIORITY RESULTS	
MW10-2-WR	23446						
MW10-3-WO	23447						
MW10-3D-WM	23448						
MW10-4-WO	23449						
MW10-5D-WO	23450						
MW10-6D-WO	23451						

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW7-1-WR

Lab Name: E & E INC.

Contract:

Code: EANDE

Case No.: 596

SAS No.:

SDG No.: 23353

Matrix: (soil/water) WATER

Lab Sample ID: 23360

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: F0958

Level: (low/med) LOW

Date Received: 03/21/95

% Moisture: not dec.

Date Analyzed: 03/27/95

GC Column: VOCOL ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

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

CAS NO.

COMPOUND

Q

74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

FORM I VOA

3/90

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW7-1-WR

Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 596

SAS No.:

SDG No.: 23353

Matrix: (soil/water) WATER

Lab Sample ID: 23360

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: F0958

Level: (low/med) LOW

Date Received: 03/21/95

% Moisture: not dec.

Date Analyzed: 03/27/95

GC Column: VOCOL ID: 0.530 (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
=====	=====	=====	=====	=====

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF WATER ANALYSIS FOR TENTATIVELY IDENTIFIED
VOLATILE ORGANIC COMPOUNDS BY GC/MS

CLIENT	: NM-8000 NIAGARA FALLS AFB	UNITS	: UG/L
TEST NAME	: PURGEABLES	MATRIX	: WATER
SAMPLE ID LAB	: EE-95-23360	DATE RECEIVED	: 03/21/95
SAMPLE ID CLIENT	: NM8-MW7-1-WR-032195	DATE EXTRACTED	: NA
SDG #	: 23353	DATE ANALYZED	: 03/27/95
SAMPLE VOLUME	: 5.0 ML	INJECTION VOLUME	: NA
FINAL VOLUME	: NA	DILUTION FACTOR	: 1.0

9500.596

Total Hydrocarbons Present as m/z 57 - 3

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW7-1-WT

Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 596

SAS No.:

SDG No.: 23353

Matrix: (soil/water) WATER

Lab Sample ID: 23364

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: F0972

Level: (low/med) LOW

Date Received: 03/21/95

% Moisture: not dec.

Date Analyzed: 03/28/95

GC Column: VOCOL ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

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

CAS NO.

COMPOUND

Q

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

FORM I VOA

3/90

1E
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW7-1-WT

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 596

SAS No.:

SDG No.: 23353

Matrix: (soil/water) WATER

Lab Sample ID: 23364

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: F0972

Level: (low/med) LOW

Date Received: 03/21/95

% Moisture: not dec.

Date Analyzed: 03/28/95

GC Column: VOCOL ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Number of TICs found: 0

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

PEAK NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF WATER ANALYSIS FOR TENTATIVELY IDENTIFIED
VOLATILE ORGANIC COMPOUNDS BY GC/MS

CLIENT	: NM-8000 NIAGARA FALLS AFB	UNITS	: UG/L
TEST NAME	: PURGEABLES	MATRIX	: WATER
SAMPLE ID LAB	: EE-95-23364	DATE RECEIVED	: 03/21/95
SAMPLE ID CLIENT	: NM8-MW7-1-WT-032195	DATE EXTRACTED	: NA
SDG #	: 23353	DATE ANALYZED	: 03/28/95
SAMPLE VOLUME	: 5.0 ML	INJECTION VOLUME	: NA
FINAL VOLUME	: NA	DILUTION FACTOR	: 1.0

9500.596

Total Hydrocarbons Present as m/z 57 - 4

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW7-1-WR

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 596

SAS No.:

SDG No.: 23353

Matrix: (soil/water) WATER

Lab Sample ID: 23360

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: G9926

Level: (low/med) LOW

Date Received: 03/21/95

% Moisture: decanted: (Y/N)

Date Extracted: 03/27/95

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 04/07/95

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH:

CONCENTRATION UNITS:

CAS NO.

COMPOUND

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

Q

108-95-2-----	Phenol	10	U
111-44-4-----	bis(2-Chloroethyl) Ether	10	U
95-57-8-----	2-Chlorophenol	10	U
541-73-1-----	1,3-Dichlorobenzene	10	U
106-46-7-----	1,4-Dichlorobenzene	10	U
95-50-1-----	1,2-Dichlorobenzene	10	U
95-48-7-----	2-Methylphenol	10	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5-----	4-Methylphenol	10	U
621-64-7-----	N-Nitroso-Di-n-Propylamine	10	U
67-72-1-----	Hexachloroethane	10	U
98-95-3-----	Nitrobenzene	10	U
78-59-1-----	Isophorone	10	U
88-75-5-----	2-Nitrophenol	10	U
105-67-9-----	2,4-Dimethylphenol	10	U
111-91-1-----	bis(2-Chloroethoxy) Methane	10	U
120-83-2-----	2,4-Dichlorophenol	10	U
120-82-1-----	1,2,4-Trichlorobenzene	10	U
91-20-3-----	Naphthalene	10	U
106-47-8-----	4-Chloroaniline	10	U
87-68-3-----	Hexachlorobutadiene	10	U
59-50-7-----	4-Chloro-3-Methylphenol	10	U
91-57-6-----	2-Methylnaphthalene	10	U
77-47-4-----	Hexachlorocyclopentadiene	10	U
88-06-2-----	2,4,6-Trichlorophenol	10	U
95-95-4-----	2,4,5-Trichlorophenol	50	U
91-58-7-----	2-Chloronaphthalene	10	U
88-74-4-----	2-Nitroaniline	50	U
131-11-3-----	Dimethylphthalate	10	U
208-96-8-----	Acenaphthylene	10	U
606-20-2-----	2,6-Dinitrotoluene	10	U
99-09-2-----	3-Nitroaniline	50	U
83-32-9-----	Acenaphthene	10	U

FORM I SV-1

3/90

1C.
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW7-1-WR

Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 596

SAS No.:

SDG No.: 23353

Matrix: (soil/water) WATER

Lab Sample ID: 23360

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: G9926

Level: (low/med) LOW

Date Received: 03/21/95

% Moisture: decanted: (Y/N)

Date Extracted: 03/27/95

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 04/07/95

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH:

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

CAS NO.

COMPOUND

Q

51-28-5-----	2,4-Dinitrophenol	50	U
100-02-7-----	4-Nitrophenol	50	U
132-64-9-----	Dibenzofuran	10	U
121-14-2-----	2,4-Dinitrotoluene	10	U
84-66-2-----	Diethylphthalate	10	U
7005-72-3-----	4-Chlorophenyl-phenylether	10	U
86-73-7-----	Fluorene	10	U
100-01-6-----	4-Nitroaniline	50	U
534-52-1-----	4,6-Dinitro-2-methylphenol	50	U
86-30-6-----	N-Nitrosodiphenylamine (1)	10	U
101-55-3-----	4-Bromophenyl-phenylether	10	U
118-74-1-----	Hexachlorobenzene	10	U
87-86-5-----	Pentachlorophenol	50	U
85-01-8-----	Phenanthrene	10	U
120-12-7-----	Anthracene	10	U
86-74-8-----	Carbazole	10	U
84-74-2-----	Di-n-Butylphthalate	10	U
206-44-0-----	Fluoranthene	10	U
92-87-5-----	Benzidine	50	U
55-85-0-----	Benzoic Acid	50	U
100-51-6-----	Benzyl Alcohol	10	U
129-00-0-----	Pyrene	10	U
85-68-7-----	Butylbenzylphthalate	5	J
91-94-1-----	3,3'-Dichlorobenzidine	20	U
56-55-3-----	Benzo(a)Anthracene	10	U
218-01-9-----	Chrysene	10	U
117-81-7-----	bis(2-Ethylhexyl)Phthalate	10	U
117-84-0-----	Di-n-Octyl Phthalate	10	U
205-99-2-----	Benzo(b)Fluoranthene	10	U
207-08-9-----	Benzo(k)Fluoranthene	10	U
50-32-8-----	Benzo(a)Pyrene	10	U
193-39-5-----	Indeno(1,2,3-cd)Pyrene	10	U
53-70-3-----	Dibenz(a,h)Anthracene	10	U
191-24-2-----	Benzo(g,h,i)Perylene	10	U

(1) - Cannot be separated from Diphenylamine
FORM I SV-2

3/90

F-167

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW7-1-WR

Lab Name: E & E INC. Contract: _____
 Lab Code: EANDE Case No.: 596 SAS No.: _____ SDG No.: 23353
 Matrix: (soil/water) WATER Lab Sample ID: 23360
 Sample wt/vol: 1000 (g/mL) ML Lab File ID: G9926
 Level: (low/med) LOW Date Received: 03/21/95
 % Moisture: decanted: (Y/N) Date Extracted: 03/27/95
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/07/95
 Injection Volume: 2.0(uL) Dilution Factor: 1.0
 Cleanup: (Y/N) N pH: _____

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

Number of TICs found: 3

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	3.42	5	J
2. 12-34-22	Aldol Condensation Product	3.99	230	ABJN
3.	UNKNOWN HYDROCARBON	33.76	4	J

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF WATER ANALYSIS FOR TENTATIVELY IDENTIFIED
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS

CLIENT : NM-8000 NIAGARA FALLS AFB
TEST NAME : SEMI-VOLATILES UNITS : UG/L
SAMPLE ID LAB : EE-95-23360 MATRIX: WATER
SAMPLE ID CLIENT: NMB-MW7-1-WR-032195 DATE RECEIVED : 03/21/95
SDG # : 23353 DATE EXTRACTED: 03/27/95
DATE ANALYZED : 04/07/95
SAMPLE VOLUME: 1000 ML INJECTION VOLUME: 2.0 UL
FINAL VOLUME : 1000 UL DILUTION FACTOR : 1.0

9500.596

Total hydrocarbons
present as mass 57 11

TEST CODE :WPCB 1

JOB NUMBER :9500.596

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NM-8000 NIAGARA FALLS AFB

TEST NAME : PCB

UNITS : UG/L

SAMPLE ID LAB : EE-95-23360

MATRIX: WATER

SAMPLE ID CLIENT: NM8-MW7-1-WR-032195

DATE RECEIVED : 03/21/95

SDG # : 23352

DATE EXTRACTED: 03/23/95

DATE ANALYZED : 03/28/95

SAMPLE VOLUME: 1000 mLs

INJECTION VOLUME: 4.0 uL

FINAL VOLUME : 1.0 mL

DILUTION FACTOR : 1.0

PARAMETER	RESULTS	Q	QNT. LIMIT
PCB-1242	ND		0.50
PCB-1254	ND		0.50
PCB-1221	ND		0.50
PCB-1232	ND		0.50
PCB-1248	ND		0.50
PCB-1260	ND		0.50
PCB-1016	ND		0.50

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

B = ALSO PRESENT IN BLANK

N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE

JOB NUMBER : 9500.596

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NM-8000 NIAGARA FALLS AFB

SAMPLE ID LAB : EE-95-23360

MATRIX: WATER

SAMPLE ID CLIENT: NM8-MW7-1-WR-032195

DATE RECEIVED : 03/21/95

SDG # : 23352

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
-----	-----	-	-----	-----
Arsenic	ND		5.0	UG/L
Lead	ND		5.0	UG/L
Antimony	ND		60	UG/L
Beryllium	ND		5.0	UG/L
Cadmium	ND		5.0	UG/L
Chromium Total	ND		10	UG/L
Copper	ND		20	UG/L
Nickel	ND		20	UG/L
Silver	ND		10	UG/L
Zinc	ND		10	UG/L
Selenium	ND		5.0	UG/L
Thallium	ND		5.0	UG/L
Mercury	ND		0.20	UG/L

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

Case Narrative

NM-9000 Niagara Falls AFB

9500.597; 9500.614; 9500.633; 9500.647

All aqueous volatile samples were determined to be at a pH of 6 s.u.

As requested, the extracted ion profile for m/z 57 over the entire mass chromatogram was obtained for each sample analyzed for volatile and semi-volatile compounds. A value representing the total hydrocarbons present as m/z 57 is reported for each sample. This value was obtained using the internal standard method. The total area of the m/z 57 peaks was compared to the total ion response of the first eluting internal standard assuming a response factor of 1. Since the m/z 57 is present in the internal standards added to all samples, a positive value will always be obtained.

The volatile fraction of samples SB3-7-SD and SB3-7-SO required reanalyses using the medium level procedure due to the level of chloroform, carbon tetrachloride, and trichloroethene. Results from both analyses are included in this report.

High recovery and RPD values obtained for zinc water matrix spike analysis are a function of the high concentration of zinc native to the sample.

Recovery of selenium and antimony were slightly low in the water matrix spike samples. No corrective action was required.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

for Tony Buzoli
Gary Hahn - Manager
Analytical Services Center
May 1, 1995



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CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Project No.: NM9023		Project Name: NIAGARA FALLS IAP-ARS SW STUDY			Project Manager: J. BASTEDO		<div style="border: 1px solid black; padding: 5px; transform: rotate(-45deg); display: inline-block;"> METALS PRESERVED W/HNO₃ BOTTLE LOT #'S IN LOG </div>						
Samplers: (Signatures) <i>[Signatures]</i>					Field Team Leader: G. FLORENTINO								
STATION NUMBER	DATE	TIME	SAMPLE TYPE			SAMPLE INFORMATION EXPECTED COMPOUNDS (Concentration)*	STATION LOCATION	NUMBER OF CONTAINERS	REMARKS				
			COMP	GRAB	AIR								
MW3-1E	3-24	1052		X		LOW	NM9-MW3-1E-WO-032495	6	X	X	X	X	
MW3-6D	3-24	1040		X		↓	NM9-MW3-6D-WO-032495	1				X	SAMPLED 3/23 FOR VOC, BNA, POB
<i>[Signature]</i> 3/24/95													
Relinquished By: (Signature)		Date/Time:		Received By: (Signature)		Relinquished By: (Signature)		Date/Time:		Received By: (Signature)		Ship Via:	
Relinquished By: (Signature)		Date/Time:		Received By: (Signature)		Relinquished By: (Signature)		Date/Time:		Received By: (Signature)		EPE HAND DELIVERY	
Relinquished By: (Signature)		Date/Time: 1240		Received For Laboratory By: (Signature)		Relinquished By: (Signature)		Date/Time:		Received For Laboratory By: (Signature)		BL/Airbill Number: —	
		3/24/95										Date: 03-24-95	

Distribution: Original Accompanies Shipment; Copy to Coordinator/Field Files
*See CONCENTRATION RANGE on back of form.

234065

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3



CHAIN OF CUSTODY RECORD

Project No: NM9023		Project Name: NIAGARA FALLS IAP-AQS SITE 3 RFI			Project Manager: M. SCHMITT		REMARKS TEPH (WATER) PRES. W/ H ₂ SO ₄ BOTTLE LOT # 5 IN LOT ALLOW KE SUBSURF. SOIL 10-15' " " 11-14' MS/MSD " " 5-6.4' " " 10-7' RINSATE (REMAINDER OF ANALYSES UNDER NH4000) Temp Blank 0.5 upon receipt 3/21/95																			
Samplers (Signatures): <i>[Signatures]</i>					Field Team Leader: R. WATT												8240 VOCs 8270 BNA PPEP: POLYMER METALS TEPH									
STATION NUMBER	DATE	TIME	SAMPLE TYPE		SAMPLE INFORMATION																					
	1995		COMP	GRAB	AIR	EXPECTED COMPOUNDS (Concentration)*	SAMPLE NO.																			
SB3-7	3-20	0830	x			Metals, VOA - LOW	NM9-SB3-7-SO-032195		3	x	x	x	x													
SB3-7		0830	x				NM9-SB3-7-SO-032195		3	x	x	x	x	DUPLICATE												
SB3-8		1000	x				NM9-SB3-8-SM-032195		3	x	x	x	x	MS/MSD												
SB3-9		1025	x				NM9-SB3-9-SO-032195		3	x	x	x	x	"												
SB3-10		1105	x				NM9-SB3-10-SO-032195		3	x	x	x	x	"												
		1555	x			NM9-SB3-10-WR-032195		1					x	RINSATE (REMAINDER OF ANALYSES UNDER NH4000)												
Relinquished By: (Signature) <i>[Signature]</i>		Date/Time: 3-21-95/1800		Received By: (Signature) <i>[Signature]</i>		Relinquished By: (Signature)		Date/Time:		Received By: (Signature)		Ship Via: E&E														
Relinquished By: (Signature)		Date/Time:		Received By: (Signature)		Relinquished By: (Signature)		Date/Time:		Received By: (Signature)		BL/Airbill Number: NA														
Relinquished By: (Signature)		Date/Time:		Received For Laboratory By: (Signature) <i>[Signature]</i>		Relinquished By: (Signature)		Date/Time:		Received For Laboratory By: (Signature)		Draw: 3-21-95														

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files
*See CONCENTRATION RANGE on back of form.

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5



CHAIN OF CUSTODY RECORD

Project No.: NM8060		Project Name: Niagara Falls IMP-ARS GW STUDY		Project Manager: J. Bartels		REMARKS METALS (WATER) PRES w/HNO ₃ BOTTLE LOT NO'S IN LOG VPC'S 8240 PP WELLS BUA TPAH XBS 8270	
Samplers (Signatures): R. Watt		Field Team Leader: R. Watt					
STATION NUMBER		DATE		TIME			
		1995					
		SAMPLE TYPE		SAMPLE INFORMATION		STATION LOCATION	
		COMP GRAB AIR		EXPECTED COMPOUNDS (Concentration)*			
MW5-1A		720		1125		X	
MW5-2				1020			
MW5-2				1020			
MW5-3A				0840			
MW5-4				1015			
MW5-5				0850			
MW8-20				1425			
MW8-4				1410			
MW8-6				1355			
MW5-1A				1125			
MW5-1A				1125			
SB3-53				1440			
SB3-54				1510			
SB3-55				1540			
MW5-1A				LOW		LOW	
NM8-MW5-1A-W008				032095		5	
NM8-MW5-2-W008				032095		5	
NM8-MW5-2-WD				032095		5	
NM8-MW5-3A-W008				032095		15	
NM8-MW5-4-W008				032095		5	
NM8-MW5-5-W008				032095		5	
NM8-MW8-20-W008				032095		6	
NM8-MW8-4-W008				032095		6	
NM8-MW8-6-W008				032095		6	
NM8-MW5-1A-WT				032095		3	
NM8-MW5-1A-UL				032095		5	
NM9-SB3-2-80				032095		3	
NM9-SB3-4-80				032095		3	
NM9-SB3-5-80				032095		3	
Relinquished By: (Signature)		Date/Time:		Received By: (Signature)		Date/Time:	
R. Watt		3-20-95/1925		R. Watt			
Relinquished By: (Signature)		Date/Time:		Received By: (Signature)		Date/Time:	
Relinquished By: (Signature)		Date/Time:		Received For Laboratory By: (Signature)		Date/Time:	
				Henry Bernath			
				Relinquished By: (Signature)		Date/Time:	
				Received For Laboratory By: (Signature)		Date/Time:	
						Ship Via:	
						E&E	
						BL/Airbill Number:	
						NA	
						Date:	
						3-20-95	

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files
* See CONCENTRATION RANGE on back of form.



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CHAIN-OF-CUSTODY RECORD

Project No.: NM-8060		Project Name: Niagara Falls IAP-ARS GW Study			Project Manager: J. Bostedo		REMARKS								
Safelers: (Signature) <i>[Signature]</i>		Field Team Leader: R. Watt													
STATION NUMBER	DATE	TIME	SAMPLE TYPE			EXPECTED COMPOUNDS (Concentration)*	STATION LOCATION	NUMBER OF CONTAINERS	VOL	PP	Mn	Cd	Pb	PCB	REMARKS
			COMP	GRAB	AIR										
SB3-6	9/20/95	1410		X		Low	NM9-SB3-6-50-032095	3	X	X	X	X			Soil 0-4'
MW81	↓	1505		X			NM8-MW8-1-40-032095	6	X	X	X		X		
MW83	↓	1520		X			NM8-MW8-3-40-032095	6	X	X	X		X		
<i>[Large diagonal signature across the table]</i>															
Relinquished By: (Signature) <i>[Signature]</i>		Date/Time: 3-20-95/1920		Received By: (Signature) _____		Relinquished By: (Signature) _____		Date/Time: _____		Received By: (Signature) _____		Ship Via: EOB			
Relinquished By: (Signature) _____		Date/Time: _____		Received By: (Signature) _____		Relinquished By: (Signature) _____		Date/Time: _____		Received By: (Signature) _____		BL/Airbill Number: N/A			
Relinquished By: (Signature) _____		Date/Time: _____		Received For Laboratory By: (Signature) <i>[Signature]</i>		Relinquished By: (Signature) _____		Date/Time: _____		Received For Laboratory By: (Signature) _____		Date: 3-20-95			

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files
*SEE CONCENTRATION RANGE on back of form.

F-117X

ecology and environment

CHAIN-OF-CUSTODY RECORD

Project No.: NM9023		Project Name: NIAGARA FALLS IAP-ARS GW STUDY			Project Manager: J. BASTEDO			REMARKS						
Samplers: (Signatures) <i>[Signatures]</i>		Field Team Leader: G. FLORENTINO												
STATION NUMBER	DATE	TIME	SOURCE			SAMPLE INFORMATION	STATION LOCATION	NUMBER OF CONTAINERS	MR. H. 8240 VOCs MR. H. 8270 BVA MR. H. 1080 PCBs Prior. Poll. Metals					
			COMP	GRAB	AIR							EXPECTED COMPOUNDS (Concentration)*		
MW3-6D	3-23	1510		X		LOW	NM9-MW3-6D-WO-032395	5	X	X	X	METALS PRESERVED W/HNO3 } BOTTLE LOT #'S IN LOG. } RINSATE BLK. } TRIP BLK.		
MW9-4A	3-23	1630		X		↓	NM8-MW9-4A-WR-032395	6	X	X	X			
—	3-23	—		X			NM8-MW3-6A-WT-032395	3	X					
Relinquished By: (Signature)			Date/Time:		Received By: (Signature)		Relinquished By: (Signature)		Date/Time:		Received By: (Signature)		Ship Via:	
Relinquished By: (Signature)			Date/Time:		Received By: (Signature)		Relinquished By: (Signature)		Date/Time:		Received By: (Signature)		EVE HAND DELIVERY	
Relinquished By: (Signature)			Date/Time: 3/23/95 1800		Received For Laboratory By: (Signature)		Relinquished By: (Signature)		Date/Time:		Received For Laboratory By: (Signature)		BL/Airbill Number: — Date: 03/23/95	

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files
 * See CONCENTRATION RANGE on back of form.

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To be included with all lab data and with each workplan

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE IDENTIFICATION AND ANALYTICAL REQUIREMENT SUMMARY

Customer Sample Code	Laboratory Sample Code	Analytical Requirements					
		*VOA GC/MS Method #	*BNA GC/MS Method #	*VOA GC Method #	*Pest PCBs Method #	*Metals	*Other
SB3-7-SD	23365	8240	8270			PRIORITY ANALYST	TRPH
SB3-7-SD	23364						
SB3-8-SM	23367						
SB3-9-SD	23368						
SB3-10-SD	23369						TRPH
SB3-10-WR	23370						
SB3-3-SD	23488	8240	8270			PRIORITY ANALYST	
SB3-4-SD	23489						
SB3-5-SD	23490						
SB3-6-SD	23491						
MW3-6D-WD	23633				8080		
MW3-1E-WD	23728				8080		
MW3-6D-WD	23729						

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW3-1E-WO

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 597

SAS No.:

SDG No.: 23365

Matrix: (soil/water) WATER

Lab Sample ID: 23728

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: F1042

Level: (low/med) LOW

Date Received: 03/24/95

Moisture: not dec.

Date Analyzed: 03/30/95

GC Column: VOCOL ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

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

CAS NO.

COMPOUND

Q

74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethane	5	U
75-34-3	1,1-Dichloroethane	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW3-1E-WO

Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 597

SAS No.:

SDG No.: 23365

Matrix: (soil/water) WATER

Lab Sample ID: 23728

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: F1042

Level: (low/med) LOW

Date Received: 03/24/95

% Moisture: not dec.

Date Analyzed: 03/30/95

GC Column: VOCOL ID: 0.530 (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
=====	=====	=====	=====	=====

FORM I VOA-TIC

3/90

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF WATER ANALYSIS FOR TENTATIVELY IDENTIFIED
VOLATILE ORGANIC COMPOUNDS BY GC/MS

CLIENT	: NM-9000 NIAGARA FALLS AFB	UNITS	: UG/L
TEST NAME	: PURGEABLES	MATRIX	: WATER
SAMPLE ID LAB	: EE-95-23728	DATE RECEIVED	: 03/24/95
SAMPLE ID CLIENT	: NM9-MW3-1E-WO-032495	DATE EXTRACTED	: NA
SDG #	: 23365	DATE ANALYZED	: 03/30/95
SAMPLE VOLUME	: 5.0 ML	INJECTION VOLUME	: NA
FINAL VOLUME	: NA	DILUTION FACTOR	: 1.0

9500.647

Total Hydrocarbons Present as m/z 57 - 3

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW3-6D-WO

Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 597

SAS No.:

SDG No.: 23365

Matrix: (soil/water) WATER

Lab Sample ID: 23633

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: F1041

Level: (low/med) LOW

Date Received: 03/23/95

% Moisture: not dec.

Date Analyzed: 03/30/95

GC Column: VOCOL ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L Q

74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

FORM I VOA

3/90

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1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW3-6D-WO

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 597

SAS No.:

SDG No.: 23365

Matrix: (soil/water) WATER

Lab Sample ID: 23633

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: F1041

Level: (low/med) LOW

Date Received: 03/23/95

% Moisture: not dec.

Date Analyzed: 03/30/95

GC Column: VOCOL ID: 0.530 (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
=====	=====	=====	=====	=====

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF WATER ANALYSIS FOR TENTATIVELY IDENTIFIED
VOLATILE ORGANIC COMPOUNDS BY GC/MS

CLIENT	: NM-9000 NIAGARA FALLS AFB	UNITS	: UG/L
TEST NAME	: PURGEABLES	MATRIX	: WATER
SAMPLE ID LAB	: EE-95-23633	DATE RECEIVED	: 03/23/95
SAMPLE ID CLIENT	: NM9-MW3-6D-WO-032395	DATE EXTRACTED	: NA
SDG #	: 23365	DATE ANALYZED	: 03/30/95
SAMPLE VOLUME	: 5.0 ML	INJECTION VOLUME	: NA
FINAL VOLUME	: NA	DILUTION FACTOR	: 1.0

9500.633

Total Hydrocarbons Present as m/z 57 - 3

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB3-3-SO

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 597

SAS No.:

SDG No.: 23365

Matrix: (soil/water) SOIL

Lab Sample ID: 23488

Sample wt/vol: 4.9 (g/mL) G

Lab File ID: C0712

Level: (low/med) LOW

Date Received: 03/20/95

% Moisture: not dec. 23

Date Analyzed: 03/21/95

GC Column: VOCOL ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	13	U
74-83-9	Bromomethane	13	U
75-01-4	Vinyl Chloride	13	U
75-00-3	Chloroethane	13	U
75-09-2	Methylene Chloride	7	U
67-64-1	Acetone	13	J
75-15-0	Carbon Disulfide	7	U
75-35-4	1,1-Dichloroethene	7	U
75-34-3	1,1-Dichloroethane	7	U
156-59-2	cis-1,2-Dichloroethene	7	U
156-60-5	trans-1,2-Dichloroethene	7	U
67-66-3	Chloroform	7	U
107-06-2	1,2-Dichloroethane	7	U
78-93-3	2-Butanone	13	U
71-55-6	1,1,1-Trichloroethane	7	U
56-23-5	Carbon Tetrachloride	7	U
75-27-4	Bromodichloromethane	7	U
78-87-5	1,2-Dichloropropane	7	U
10061-01-5	cis-1,3-Dichloropropene	7	U
79-01-6	Trichloroethene	7	U
124-48-1	Dibromochloromethane	7	U
79-00-5	1,1,2-Trichloroethane	7	U
71-43-2	Benzene	7	U
10061-02-6	trans-1,3-Dichloropropene	7	U
75-25-2	Bromoform	7	U
108-10-1	4-Methyl-2-Pentanone	13	U
591-78-6	2-Hexanone	13	U
127-18-4	Tetrachloroethene	7	U
79-34-5	1,1,2,2-Tetrachloroethane	7	U
108-88-3	Toluene	7	U
108-90-7	Chlorobenzene	7	U
100-41-4	Ethylbenzene	7	U
100-42-5	Styrene	7	U
1330-20-7	Xylene (total)	7	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SB3-3-SO

Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 597

SAS No.:

SDG No.: 23365

Matrix: (soil/water) SOIL

Lab Sample ID: 23488

Sample wt/vol: 4.9 (g/mL) G

Lab File ID: C0712

Level: (low/med) LOW

Date Received: 03/20/95

% Moisture: not dec. 23

Date Analyzed: 03/21/95

GC Column: VOCOL ID: 0.530 (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
=====	=====	=====	=====	=====

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF SOIL ANALYSIS FOR TENTATIVELY IDENTIFIED
VOLATILE ORGANIC COMPOUNDS BY GC/MS

CLIENT	: NM-9000 NIAGARA FALLS AFB	SOLIDS	: 77 %
TEST NAME	: PURGEABLES	UNITS	: UG/KG
SAMPLE ID LAB	: EE-95-23488	MATRIX	: SOLID
SAMPLE ID CLIENT	: NM9-SB3-3-SO-032095	DATE RECEIVED	: 03/20/95
SDG #	: 23365	DATE EXTRACTED	: NA
		DATE ANALYZED	: 03/21/95
SAMPLE VOLUME	: 4.9 G	INJECTION VOLUME	: NA
FINAL VOLUME	: NA	DILUTION FACTOR	: 1.0

9500.614

Total Hydrocarbons Present as m/z 57 - 4

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB3-4-SO

Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 597

SAS No.:

SDG No.: 23365

Matrix: (soil/water) SOIL

Lab Sample ID: 23489

Sample wt/vol: 5.1 (g/mL) G

Lab File ID: C0713

Level: (low/med) LOW

Date Received: 03/20/95

% Moisture: not dec. 12

Date Analyzed: 03/21/95

GC Column: VOCOL ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

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

CAS NO.	COMPOUND	Q
74-87-3	Chloromethane	11 U
74-83-9	Bromomethane	11 UU
75-01-4	Vinyl Chloride	11 UUU
75-00-3	Chloroethane	11 UUU
75-09-2	Methylene Chloride	6 UUU
67-64-1	Acetone	11 UUU
75-15-0	Carbon Disulfide	6 UUU
75-35-4	1,1-Dichloroethene	6 UUU
75-34-3	1,1-Dichloroethane	6 UUU
156-59-2	cis-1,2-Dichloroethene	6 UUU
156-60-5	trans-1,2-Dichloroethene	6 UUU
67-66-3	Chloroform	6 UUU
107-06-2	1,2-Dichloroethane	6 UUU
78-93-3	2-Butanone	11 UUU
71-55-6	1,1,1-Trichloroethane	6 UUU
56-23-5	Carbon Tetrachloride	6 UUU
75-27-4	Bromodichloromethane	6 UUU
78-87-5	1,2-Dichloropropane	6 UUU
10061-01-5	cis-1,3-Dichloropropene	6 UUU
79-01-6	Trichloroethene	6 UUU
124-48-1	Dibromochloromethane	6 UUU
79-00-5	1,1,2-Trichloroethane	6 UUU
71-43-2	Benzene	6 UUU
10061-02-6	trans-1,3-Dichloropropene	6 UUU
75-25-2	Bromoform	6 UUU
108-10-1	4-Methyl-2-Pentanone	11 UUU
591-78-6	2-Hexanone	11 UUU
127-18-4	Tetrachloroethene	6 UUU
79-34-5	1,1,2,2-Tetrachloroethane	6 UUU
108-88-3	Toluene	6 UUU
108-90-7	Chlorobenzene	6 UUU
100-41-4	Ethylbenzene	6 UUU
100-42-5	Styrene	6 UUU
1330-20-7	Xylene (total)	6 U

FORM I VOA

3/90

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1E
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SB3-4-SO

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 597

SAS No.:

SDG No.: 23365

Matrix: (soil/water) SOIL

Lab Sample ID: 23489

Sample wt/vol: 5.1 (g/mL) G

Lab File ID: C0713

Level: (low/med) LOW

Date Received: 03/20/95

% Moisture: not dec. 12

Date Analyzed: 03/21/95

GC Column: VOCOL ID: 0.530 (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
=====	=====	=====	=====	=====

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF SOIL ANALYSIS FOR TENTATIVELY IDENTIFIED
VOLATILE ORGANIC COMPOUNDS BY GC/MS

CLIENT	: NM-9000 NIAGARA FALLS AFB	SOLIDS	: 88 %
TEST NAME	: PURGEABLES	UNITS	: UG/KG
SAMPLE ID LAB	: EE-95-23489	MATRIX	: SOLID
SAMPLE ID CLIENT	: NM9-SB3-4-SO-032095	DATE RECEIVED	: 03/20/95
SDG #	: 23365	DATE EXTRACTED	: NA
		DATE ANALYZED	: 03/21/95
SAMPLE VOLUME	: 5.1 G	INJECTION VOLUME	: NA
FINAL VOLUME	: NA	DILUTION FACTOR	: 1.0

9500.614

Total Hydrocarbons Present as m/z 57 - 4

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.:

SB3-5-SO

Lab Name: E & E INC. Contract: _____

Lab Code: EANDE Case No.: 597 SAS No.: _____ SDG No.: 23365

Matrix: (soil/water) SOIL Lab Sample ID: 23490

Sample wt/vol: 5.1 (g/mL) G Lab File ID: C0714

Level: (low/med) LOW Date Received: 03/20/95

% Moisture: not dec. 7 Date Analyzed: 03/21/95

GC Column: VOCOL ID: 0.530 (mm) Dilution Factor: 1.0

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

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	3	J
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SB3-5-SO

Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 597

SAS No.:

SDG No.: 23365

Matrix: (soil/water) SOIL

Lab Sample ID: 23490

Sample wt/vol: 5.1 (g/mL) G

Lab File ID: C0714

Level: (low/med) LOW

Date Received: 03/20/95

% Moisture: not dec. 7

Date Analyzed: 03/21/95

GC Column: VOCOL ID: 0.530 (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

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF SOIL ANALYSIS FOR TENTATIVELY IDENTIFIED
VOLATILE ORGANIC COMPOUNDS BY GC/MS

CLIENT	: NM-9000 NIAGARA FALLS AFB	SOLIDS	: 93 %
TEST NAME	: PURGEABLES	UNITS	: UG/KG
SAMPLE ID LAB	: EE-95-23490	MATRIX	: SOLID
SAMPLE ID CLIENT	: NM9-SB3-5-SO-032095	DATE RECEIVED	: 03/20/95
SDG #	: 23365	DATE EXTRACTED	: NA
		DATE ANALYZED	: 03/21/95
SAMPLE VOLUME	: 5.1 G	INJECTION VOLUME	: NA
FINAL VOLUME	: NA	DILUTION FACTOR	: 1.0

9500.614

Total Hydrocarbons Present as m/z 57 - 5

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB3-6-SO

Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 597

SAS No.:

SDG No.: 23365

Matrix: (soil/water) SOIL

Lab Sample ID: 23491

Sample wt/vol: 5.2 (g/mL) G

Lab File ID: C0741

Level: (low/med) LOW

Date Received: 03/20/95

% Moisture: not dec. 13

Date Analyzed: 03/22/95

GC Column: VOCOL ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

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

CAS NO. COMPOUND Q

74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	6	U
67-64-1	Acetone	22	B
75-15-0	Carbon Disulfide	6	U
75-35-4	1,1-Dichloroethene	6	U
75-34-3	1,1-Dichloroethane	6	U
156-59-2	cis-1,2-Dichloroethene	6	U
156-60-5	trans-1,2-Dichloroethene	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	6	U
56-23-5	Carbon Tetrachloride	1	J
75-27-4	Bromodichloromethane	6	G
78-87-5	1,2-Dichloropropane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U
10061-02-6	trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-Pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
108-88-3	Toluene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U
1330-20-7	Xylene (total)	6	U

FORM I VOA

3/90

F-195

1E
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SB3-6-SO

Lab Name: E & E INC.

Contract:

Lab Code: EANDE Case No.: 597 SAS No.: SDG No.: 23365

Matrix: (soil/water) SOIL Lab Sample ID: 23491

Sample wt/vol: 5.2 (g/mL) G Lab File ID: C0741

Level: (low/med) LOW Date Received: 03/20/95

* Moisture: not dec. 13 Date Analyzed: 03/22/95

Column: VOCOL ID: 0.530 (mm) Dilution Factor: 1.0

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
=====	=====	=====	=====	=====

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF SOIL ANALYSIS FOR TENTATIVELY IDENTIFIED
VOLATILE ORGANIC COMPOUNDS BY GC/MS

CLIENT	: NM-9000 NIAGARA FALLS AFB	SOLIDS	: 87 %
TEST NAME	: PURGEABLES	UNITS	: UG/KG
SAMPLE ID LAB	: EE-95-23491	MATRIX	: SOLID
SAMPLE ID CLIENT	: NM9-SB3-6-SO-032095	DATE RECEIVED	: 03/20/95
SDG #	: 23365	DATE EXTRACTED	: NA
		DATE ANALYZED	: 03/22/95
SAMPLE VOLUME	: 5.2 G	INJECTION VOLUME	: NA
FINAL VOLUME	: NA	DILUTION FACTOR	: 1.0

9500.614

Total Hydrocarbons Present as m/z 57 - 3

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB3-7-SD

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 597

SAS No.:

SDG No.: 23365

Matrix: (soil/water) SOIL

Lab Sample ID: 23366

Sample wt/vol: 5.3 (g/mL) G

Lab File ID: C0743

Level: (low/med) LOW

Date Received: 03/21/95

% Moisture: not dec. 20

Date Analyzed: 03/22/95

GC Column: VOCOL ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

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

CAS NO.

COMPOUND

Q

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	12	U
74-83-9	Bromomethane	12	U
75-01-4	Vinyl Chloride	12	U
75-00-3	Chloroethane	12	U
75-09-2	Methylene Chloride	4	J
67-64-1	Acetone	18	B
75-15-0	Carbon Disulfide	3	J
75-35-4	1,1-Dichloroethene	6	U
75-34-3	1,1-Dichloroethane	6	U
156-59-2	cis-1,2-Dichloroethene	1	J
156-60-5	trans-1,2-Dichloroethene	6	U
67-66-3	Chloroform	1000	E
107-06-2	1,2-Dichloroethane	6	U
78-93-3	2-Butanone	12	U
71-55-6	1,1,1-Trichloroethane	6	U
56-23-5	Carbon Tetrachloride	2000	E
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	670	E
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U
10061-02-6	trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-Pentanone	12	U
591-78-6	2-Hexanone	12	U
127-18-4	Tetrachloroethene	6	
79-34-5	1,1,2,2-Tetrachloroethane	2	J
108-88-3	Toluene	6	
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U
1330-20-7	Xylene (total)	1	J

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SB3-7-SD

Name: E & E INC. Contract: _____
 Lab Code: EANDE Case No.: 597 SAS No.: _____ SDG No.: 23365
 Matrix: (soil/water) SOIL Lab Sample ID: 23366
 Sample wt/vol: 5.3 (g/mL) G Lab File ID: C0743
 Level: (low/med) LOW Date Received: 03/21/95
 % Moisture: not dec. 20 Date Analyzed: 03/22/95
 GC Column: VOCOL ID: 0.530 (mm) Dilution Factor: 1.0
 Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs found: 2
 CONCENTRATION UNITS:
 (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	8.68	140	J
2.	UNKNOWN	10.68	26	J

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF SOIL ANALYSIS FOR TENTATIVELY IDENTIFIED
VOLATILE ORGANIC COMPOUNDS BY GC/MS

CLIENT	: NM-9000 NIAGARA FALLS AFB	SOLIDS	: 80 %
TEST NAME	: PURGEABLES	UNITS	: UG/KG
SAMPLE ID LAB	: EE-95-23366	MATRIX	: SOLID
SAMPLE ID CLIENT	: NM9-SB3-7-SD-032295	DATE RECEIVED	: 03/21/95
SDG #	: 23365	DATE EXTRACTED	: NA
		DATE ANALYZED	: 03/22/95
SAMPLE VOLUME	: 5.3 G	INJECTION VOLUME	: NA
FINAL VOLUME	: NA	DILUTION FACTOR	: 1.0

9500.597

Total Hydrocarbons Present as m/z 57 - 1

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB3-7-SDDL

Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 597

SAS No.:

SDG No.: 23365

Matrix: (soil/water) SOIL

Lab Sample ID: 23366DL

Sample wt/vol: 4.3 (g/mL) G

Lab File ID: C0846

Level: (low/med) MED

Date Received: 03/21/95

% Moisture: not dec. 20

Date Analyzed: 03/31/95

GC Column: VOCOL ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume: 100 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

74-87-3	-----Chloromethane	1400	U
74-83-9	-----Bromomethane	1400	U
75-01-4	-----Vinyl Chloride	1400	U
75-00-3	-----Chloroethane	1400	U
75-09-2	-----Methylene Chloride	730	U
67-64-1	-----Acetone	1400	U
75-15-0	-----Carbon Disulfide	730	U
75-35-4	-----1,1-Dichloroethene	730	U
75-34-3	-----1,1-Dichloroethane	730	U
156-59-2	-----cis-1,2-Dichloroethene	730	U
156-60-5	-----trans-1,2-Dichloroethene	730	U
67-66-3	-----Chloroform	630	DJ
107-06-2	-----1,2-Dichloroethane	730	U
78-93-3	-----2-Butanone	1400	U
71-55-6	-----1,1,1-Trichloroethane	730	U
56-23-5	-----Carbon Tetrachloride	26000	D
75-27-4	-----Bromodichloromethane	730	U
78-87-5	-----1,2-Dichloropropane	730	U
10061-01-5	-----cis-1,3-Dichloropropene	730	U
79-01-6	-----Trichloroethene	3000	D
124-48-1	-----Dibromochloromethane	730	U
79-00-5	-----1,1,2-Trichloroethane	730	U
71-43-2	-----Benzene	730	U
10061-02-6	-----trans-1,3-Dichloropropene	730	U
75-25-2	-----Bromoform	730	U
108-10-1	-----4-Methyl-2-Pentanone	1400	U
591-78-6	-----2-Hexanone	1400	U
127-18-4	-----Tetrachloroethene	730	U
79-34-5	-----1,1,2,2-Tetrachloroethane	730	U
108-88-3	-----Toluene	730	U
108-90-7	-----Chlorobenzene	730	U
100-41-4	-----Ethylbenzene	730	U
100-42-5	-----Styrene	730	U
1330-20-7	-----Xylene (total)	730	U

FORM I VOA

3/90

F-201

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SB3-7-SDDL

Lab Name: E & E INC.

Contract:

CAS Code: EANDE

Case No.: 597

SAS No.:

SDG No.: 23365

Matrix: (soil/water) SOIL

Lab Sample ID: 23366DL

Sample wt/vol: 4.3 (g/mL) G

Lab File ID: C0846

Level: (low/med) MED

Date Received: 03/21/95

% Moisture: not dec. 20

Date Analyzed: 03/31/95

Column: VOCOL ID: 0.530 (mm)

Dilution Factor: 1.0

Extract Volume: 10000 (uL)

Soil Aliquot Volume: 100 (uL)

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF SOIL ANALYSIS FOR TENTATIVELY IDENTIFIED
VOLATILE ORGANIC COMPOUNDS BY GC/MS

CLIENT	: NM-9000 NIAGARA FALLS AFB	SOLIDS	: 80 %
TEST NAME	: PURGEABLES	UNITS	: UG/KG
SAMPLE ID LAB	: EE-95-23366DL	MATRIX	: SOLID
SAMPLE ID CLIENT	: NM9-SB3-7-SD-032295DL	DATE RECEIVED	: 03/21/95
SDG #	: 23365	DATE EXTRACTED	: NA
		DATE ANALYZED	: 03/31/95
SAMPLE VOLUME	: 4.3 G	INJECTION VOLUME	: 100 uL
FINAL VOLUME	: 10 mL	DILUTION FACTOR	: 1.0

9500.597

Total Hydrocarbons Present as m/z 57 - 570

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB3-7-SO

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 597

SAS No.:

SDG No.: 23365

Matrix: (soil/water) SOIL

Lab Sample ID: 23365

Sample wt/vol: 5.5 (g/mL) G

Lab File ID: C0742

Level: (low/med) LOW

Date Received: 03/21/95

% Moisture: not dec. 24

Date Analyzed: 03/22/95

GC Column: VOCOL ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	12	U
74-83-9	Bromomethane	12	U
75-01-4	Vinyl Chloride	12	U
75-00-3	Chloroethane	12	U
75-09-2	Methylene Chloride	6	
67-64-1	Acetone	11	BJ
75-15-0	Carbon Disulfide	6	U
75-35-4	1,1-Dichloroethene	6	U
75-34-3	1,1-Dichloroethane	6	U
156-59-2	cis-1,2-Dichloroethene	6	U
156-60-5	trans-1,2-Dichloroethene	6	U
67-66-3	Chloroform	1400	E
107-06-2	1,2-Dichloroethane	6	U
78-93-3	2-Butanone	12	U
71-55-6	1,1,1-Trichloroethane	98	
56-23-5	Carbon Tetrachloride	2100	E
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	1800	E
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U
10061-02-6	trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-Pentanone	12	U
591-78-6	2-Hexanone	12	U
127-18-4	Tetrachloroethene	7	
79-34-5	1,1,2,2-Tetrachloroethane	6	U
108-88-3	Toluene	9	
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U
1330-20-7	Xylene (total)	6	U

1E
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SB3-7-SO

Name: E & E INC. Contract: _____
 Lab Code: EANDE Case No.: 597 SAS No.: _____ SDG No.: 23365
 Matrix: (soil/water) SOIL Lab Sample ID: 23365
 Sample wt/vol: 5.5 (g/mL) G Lab File ID: C0742
 Level: (low/med) LOW Date Received: 03/21/95
 % Moisture: not dec. 24 Date Analyzed: 03/22/95
 GC Column: VOCOL ID: 0.530 (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/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	8.74	240	J

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF SOIL ANALYSIS FOR TENTATIVELY IDENTIFIED
VOLATILE ORGANIC COMPOUNDS BY GC/MS

CLIENT	: NM-9000 NIAGARA FALLS AFB	SOLIDS	: 76 %
TEST NAME	: PURGEABLES	UNITS	: UG/KG
SAMPLE ID LAB	: EE-95-23365	MATRIX	: SOLID
SAMPLE ID CLIENT	: NM9-SB3-7-SO-032295	DATE RECEIVED	: 03/21/95
SDG #	: 23365	DATE EXTRACTED	: NA
		DATE ANALYZED	: 03/22/95
SAMPLE VOLUME	: 5.5 G	INJECTION VOLUME	: NA
FINAL VOLUME	: NA	DILUTION FACTOR	: 1.0

9500.597

Total Hydrocarbons Present as m/z 57 - 1

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB3-7-SODL

Lab Name: E & E INC. Contract: _____
 Lab Code: EANDE Case No.: 597 SAS No.: _____ SDG No.: 23365
 Matrix: (soil/water) SOIL Lab Sample ID: 23365DL
 Sample wt/vol: 4.2 (g/mL) G Lab File ID: C0845
 Level: (low/med) MED Date Received: 03/21/95
 % Moisture: not dec. 24 Date Analyzed: 03/31/95
 GC Column: VOCOL ID: 0.530 (mm) Dilution Factor: 1.0
 Soil Extract Volume: 10000 (uL) Soil Aliquot Volume: 100 (uL)

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

CAS NO.	COMPOUND	Q
74-87-3	-----Chloromethane	1500 U
74-83-9	-----Bromomethane	1500 U
75-01-4	-----Vinyl Chloride	1500 U
75-00-3	-----Chloroethane	1500 U
75-09-2	-----Methylene Chloride	780 U
67-64-1	-----Acetone	2700 BD
75-15-0	-----Carbon Disulfide	780 U
75-35-4	-----1,1-Dichloroethene	780 U
75-34-3	-----1,1-Dichloroethane	780 U
156-59-2	-----cis-1,2-Dichloroethene	780 U
156-60-5	-----trans-1,2-Dichloroethene	780 U
67-66-3	-----Chloroform	660 DJ
107-06-2	-----1,2-Dichloroethane	7800 U
78-93-3	-----2-Butanone	1500 U
71-55-6	-----1,1,1-Trichloroethane	780 U
56-23-5	-----Carbon Tetrachloride	21000 D
75-27-4	-----Bromodichloromethane	780 U
78-87-5	-----1,2-Dichloropropane	780 U
10061-01-5	-----cis-1,3-Dichloropropene	780 U
79-01-6	-----Trichloroethene	1400 DJ
124-48-1	-----Dibromochloromethane	780 U
79-00-5	-----1,1,2-Trichloroethane	780 U
71-43-2	-----Benzene	780 U
10061-02-6	-----trans-1,3-Dichloropropene	780 U
75-25-2	-----Bromoform	780 U
108-10-1	-----4-Methyl-2-Pentanone	1500 U
591-78-6	-----2-Hexanone	1500 U
127-18-4	-----Tetrachloroethene	780 U
79-34-5	-----1,1,2,2-Tetrachloroethane	780 U
108-88-3	-----Toluene	780 U
108-90-7	-----Chlorobenzene	780 U
100-41-4	-----Ethylbenzene	780 U
100-42-5	-----Styrene	780 U
1330-20-7	-----Xylene (total)	780 U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO:

SB3-7-SODL

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 597

SAS No.:

SDG No.: 23365

Matrix: (soil/water) SOIL

Lab Sample ID: 23365DL

Sample wt/vol: 4.2 (g/mL) G

Lab File ID: C0845

Level: (low/med) MED

Date Received: 03/21/95

% Moisture: not dec. 24

Date Analyzed: 03/31/95

GC Column: VOCOL ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume: 100 (uL)

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF SOIL ANALYSIS FOR TENTATIVELY IDENTIFIED
VOLATILE ORGANIC COMPOUNDS BY GC/MS

CLIENT	: NM-9000 NIAGARA FALLS AFB	SOLIDS	: 76 %
TEST NAME	: PURGEABLES	UNITS	: UG/KG
SAMPLE ID LAB	: EE-95-23365 DL	MATRIX	: SOLID
SAMPLE ID CLIENT	: NM9-SB3-7-SO-032295 DL	DATE RECEIVED	: 03/21/95
SDG #	: 23365	DATE EXTRACTED	: NA
		DATE ANALYZED	: 03/31/95
SAMPLE VOLUME	: 4.2 G	INJECTION VOLUME	: 100 μ L
FINAL VOLUME	: 10 mL	DILUTION FACTOR	: 1.0

9500.597

Total Hydrocarbons Present as m/z 57 - 580

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB3-8-SM

Lab Name: E & E INC.	Contract:		
Lab Code: EANDE	Case No.: 597	SAS No.:	SDG No.: 23365
Matrix: (soil/water) SOIL		Lab Sample ID: 23367	
Sample wt/vol: 5.2 (g/mL) G		Lab File ID: C0766	
Level: (low/med) LOW		Date Received: 03/21/95	
% Moisture: not dec. 18		Date Analyzed: 03/23/95	
GC Column: VOCOL	ID: 0.530 (mm)	Dilution Factor: 1.0	
Soil Extract Volume: (uL)		Soil Aliquot Volume: (uL)	

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	-----Chloromethane	12	U
74-83-9	-----Bromomethane	12	U
75-01-4	-----Vinyl Chloride	12	U
75-00-3	-----Chloroethane	12	U
75-09-2	-----Methylene Chloride	6	U
67-64-1	-----Acetone	9	B
75-15-0	-----Carbon Disulfide	6	U
75-35-4	-----1,1-Dichloroethene	6	U
75-34-3	-----1,1-Dichloroethane	6	U
156-59-2	-----cis-1,2-Dichloroethene	6	U
156-60-5	-----trans-1,2-Dichloroethene	6	U
67-66-3	-----Chloroform	10	U
107-06-2	-----1,2-Dichloroethane	6	U
78-93-3	-----2-Butanone	12	U
71-55-6	-----1,1,1-Trichloroethane	6	U
56-23-5	-----Carbon Tetrachloride	78	U
75-27-4	-----Bromodichloromethane	6	U
78-87-5	-----1,2-Dichloropropane	6	U
10061-01-5	-----cis-1,3-Dichloropropene	6	U
79-01-6	-----Trichloroethene	5	J
124-48-1	-----Dibromochloromethane	6	U
79-00-5	-----1,1,2-Trichloroethane	6	U
71-43-2	-----Benzene	6	U
10061-02-6	-----trans-1,3-Dichloropropene	6	U
75-25-2	-----Bromoform	6	U
108-10-1	-----4-Methyl-2-Pentanone	12	U
591-78-6	-----2-Hexanone	12	U
127-18-4	-----Tetrachloroethene	6	U
79-34-5	-----1,1,2,2-Tetrachloroethane	6	U
108-88-3	-----Toluene	6	U
108-90-7	-----Chlorobenzene	6	U
100-41-4	-----Ethylbenzene	6	U
100-42-5	-----Styrene	6	U
1330-20-7	-----Xylene (total)	6	U

1E
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SB3-8-SM

Name: E & E INC. Contract: _____
 Lab Code: EANDE Case No.: 597 SAS No.: _____ SDG No.: 23365
 Matrix: (soil/water) SOIL Lab Sample ID: 23367
 Sample wt/vol: 5.2 (g/mL) G Lab File ID: C0766
 Level: (low/med) LOW Date Received: 03/21/95
 % Moisture: not dec. 18 Date Analyzed: 03/23/95
 GC Column: VOCOL ID: 0.530 (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

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF SOIL ANALYSIS FOR TENTATIVELY IDENTIFIED
VOLATILE ORGANIC COMPOUNDS BY GC/MS

CLIENT	: NM-9000 NIAGARA FALLS AFB	SOLIDS	: 82 %
TEST NAME	: PURGEABLES	UNITS	: UG/KG
SAMPLE ID LAB	: EE-95-23367	MATRIX	: SOLID
SAMPLE ID CLIENT	: NM9-SB3-8-SM-032295	DATE RECEIVED	: 03/21/95
SDG #	: 23365	DATE EXTRACTED	: NA
		DATE ANALYZED	: 03/23/95
SAMPLE VOLUME	: 5.2 G	INJECTION VOLUME	: NA
FINAL VOLUME	: NA	DILUTION FACTOR	: 1.0

9500.597

Total Hydrocarbons Present as m/z 57 - 3

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB3-9-SO

Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 597

SAS No.:

SDG No.: 23365

Matrix: (soil/water) SOIL

Lab Sample ID: 23368

Sample wt/vol: 5.3 (g/mL) G

Lab File ID: C0769

Level: (low/med) LOW

Date Received: 03/21/95

% Moisture: not dec. 12

Date Analyzed: 03/23/95

GC Column: VOCOL ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	-----Chloromethane	11	U
74-83-9	-----Bromomethane	11	U
75-01-4	-----Vinyl Chloride	11	U
75-00-3	-----Chloroethane	11	U
75-09-2	-----Methylene Chloride	1	J
67-64-1	-----Acetone	8	BJ
75-15-0	-----Carbon Disulfide	5	U
75-35-4	-----1,1-Dichloroethene	5	U
75-34-3	-----1,1-Dichloroethane	5	U
156-59-2	-----cis-1,2-Dichloroethene	5	U
156-60-5	-----trans-1,2-Dichloroethene	5	U
67-66-3	-----Chloroform	5	U
107-06-2	-----1,2-Dichloroethane	5	U
78-93-3	-----2-Butanone	11	U
71-55-6	-----1,1,1-Trichloroethane	5	U
56-23-5	-----Carbon Tetrachloride	5	U
75-27-4	-----Bromodichloromethane	5	U
78-87-5	-----1,2-Dichloropropane	5	U
10061-01-5	-----cis-1,3-Dichloropropene	5	U
79-01-6	-----Trichloroethene	5	U
124-48-1	-----Dibromochloromethane	5	U
79-00-5	-----1,1,2-Trichloroethane	5	U
71-43-2	-----Benzene	5	U
10061-02-6	-----trans-1,3-Dichloropropene	5	U
75-25-2	-----Bromoform	5	U
108-10-1	-----4-Methyl-2-Pentanone	11	U
591-78-6	-----2-Hexanone	11	U
127-18-4	-----Tetrachloroethene	5	U
79-34-5	-----1,1,2,2-Tetrachloroethane	5	U
108-88-3	-----Toluene	5	U
108-90-7	-----Chlorobenzene	5	U
100-41-4	-----Ethylbenzene	5	U
100-42-5	-----Styrene	5	U
1330-20-7	-----Xylene (total)	5	U

FORM I VOA

3/90

F-213

1E
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SB3-9-SO

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 597

SAS No.:

SDG No.: 23365

Matrix: (soil/water) SOIL

Lab Sample ID: 23368

Sample wt/vol: 5.3 (g/mL) G

Lab File ID: C0769

Level: (low/med) LOW

Date Received: 03/21/95

% Moisture: not dec. 12

Date Analyzed: 03/23/95

GC Column: VOCOL ID: 0.530 (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
=====	=====	=====	=====	=====

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF SOIL ANALYSIS FOR TENTATIVELY IDENTIFIED
VOLATILE ORGANIC COMPOUNDS BY GC/MS

CLIENT	: NM-9000 NIAGARA FALLS AFB	SOLIDS	: 88 %
TEST NAME	: PURGEABLES	UNITS	: UG/KG
SAMPLE ID LAB	: EE-95-23368	MATRIX	: SOLID
SAMPLE ID CLIENT	: NM9-SB3-9-SO-032295	DATE RECEIVED	: 03/21/95
SDG #	: 23365	DATE EXTRACTED	: NA
		DATE ANALYZED	: 03/23/95
SAMPLE VOLUME	: 5.3 G	INJECTION VOLUME	: NA
FINAL VOLUME	: NA	DILUTION FACTOR	: 1.0

9500.597

Total Hydrocarbons Present as m/z 57 - 3

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.:

SB3-10-SO

Name: E & E INC. Contract: _____
 Code: EANDE Case No.: 597 SAS No.: _____ SDG No.: 23365
 Matrix: (soil/water) SOIL Lab Sample ID: 23369
 Sample wt/vol: 5.0 (g/mL) G Lab File ID: C0770
 Level: (low/med) LOW Date Received: 03/21/95
 % Moisture: not dec. 30 Date Analyzed: 03/23/95
 GC Column: VOCOL ID: 0.530 (mm) Dilution Factor: 1.0
 Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	-----Chloromethane	14	U
74-83-9	-----Bromomethane	14	U
75-01-4	-----Vinyl Chloride	14	U
75-00-3	-----Chloroethane	14	U
75-09-2	-----Methylene Chloride	7	U
67-64-1	-----Acetone	160	B
75-15-0	-----Carbon Disulfide	9	
75-35-4	-----1,1-Dichloroethene	7	U
75-34-3	-----1,1-Dichloroethane	7	U
156-59-2	-----cis-1,2-Dichloroethene	7	U
156-60-5	-----trans-1,2-Dichloroethene	7	U
67-66-3	-----Chloroform	32	
107-06-2	-----1,2-Dichloroethane	7	U
78-93-3	-----2-Butanone	14	U
71-55-6	-----1,1,1-Trichloroethane	7	U
56-23-5	-----Carbon Tetrachloride	6	J
75-27-4	-----Bromodichloromethane	7	U
78-87-5	-----1,2-Dichloropropane	7	U
10061-01-5	-----cis-1,3-Dichloropropene	7	U
79-01-6	-----Trichloroethene	7	J
124-48-1	-----Dibromochloromethane	7	U
79-00-5	-----1,1,2-Trichloroethane	7	U
71-43-2	-----Benzene	7	U
10061-02-6	-----trans-1,3-Dichloropropene	7	U
75-25-2	-----Bromoform	7	U
108-10-1	-----4-Methyl-2-Pentanone	14	U
591-78-6	-----2-Hexanone	14	U
127-18-4	-----Tetrachloroethene	7	U
79-34-5	-----1,1,2,2-Tetrachloroethane	7	U
108-88-3	-----Toluene	7	U
108-90-7	-----Chlorobenzene	7	U
100-41-4	-----Ethylbenzene	7	U
100-42-5	-----Styrene	7	U
1330-20-7	-----Xylene (total)	7	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SB3-10-SO

Name: E & E INC. Contract: _____
 Lab Code: EANDE Case No.: 597 SAS No.: _____ SDG No.: 23365
 Matrix: (soil/water) SOIL Lab Sample ID: 23369
 Sample wt/vol: 5.0 (g/mL) G Lab File ID: C0770
 Level: (low/med) LOW Date Received: 03/21/95
 % Moisture: not dec. 30 Date Analyzed: 03/23/95
 GC Column: VOCOL ID: 0.530 (mm) Dilution Factor: 1.0
 Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs found: 7 CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	20.94	10	J
2.	UNKNOWN	21.42	19	J
3.	UNKNOWN HYDROCARBON	21.87	21	J
4.	PROPYLBENZENE ISOMER	22.31	10	J
5.	UNKNOWN	22.63	12	J
6.	UNKNOWN	23.58	9	J
7.	UNKNOWN HYDROCARBON	24.53	12	J

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF SOIL ANALYSIS FOR TENTATIVELY IDENTIFIED
VOLATILE ORGANIC COMPOUNDS BY GC/MS

CLIENT	: NM-9000 NIAGARA FALLS AFB	SOLIDS	: 70 %
TEST NAME	: PURGEABLES	UNITS	: UG/KG
SAMPLE ID LAB	: EE-95-23369	MATRIX	: SOLID
SAMPLE ID CLIENT	: NM9-SB3-10-SO-032295	DATE RECEIVED	: 03/21/95
SDG #	: 23365	DATE EXTRACTED	: NA
		DATE ANALYZED	: 03/23/95
SAMPLE VOLUME	: 5.0 G	INJECTION VOLUME	: NA
FINAL VOLUME	: NA	DILUTION FACTOR	: 1.0

9500.597

Total Hydrocarbons Present as m/z 57 - 22

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW3-1E-WO

Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 597

SAS No.:

SDG No.: 23365

Matrix: (soil/water) WATER

Lab Sample ID: 23728

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: I1428

Level: (low/med) LOW

Date Received: 03/24/95

% Moisture: decanted: (Y/N)

Date Extracted: 03/29/95

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 04/03/95

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH:

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

CAS NO.

COMPOUND

Q

108-95-2-----Phenol	10	U
111-44-4-----bis(2-Chloroethyl) Ether	10	UU
95-57-8-----2-Chlorophenol	10	UUU
541-73-1-----1,3-Dichlorobenzene	10	UUUU
106-46-7-----1,4-Dichlorobenzene	10	UUUUU
95-50-1-----1,2-Dichlorobenzene	10	UUUUUU
95-48-7-----2-Methylphenol	10	UUUUUUU
108-60-1-----2,2'-oxybis(1-Chloropropane)	10	UUUUUUU
106-44-5-----4-Methylphenol	10	UUUUUUU
621-64-7-----N-Nitroso-Di-n-Propylamine	10	UUUUUUU
67-72-1-----Hexachloroethane	10	UUUUUUU
98-95-3-----Nitrobenzene	10	UUUUUUU
78-59-1-----Isophorone	10	UUUUUUU
88-75-5-----2-Nitrophenol	10	UUUUUUU
105-67-9-----2,4-Dimethylphenol	10	UUUUUUU
111-91-1-----bis(2-Chloroethoxy)Methane	10	UUUUUUU
120-83-2-----2,4-Dichlorophenol	10	UUUUUUU
120-82-1-----1,2,4-Trichlorobenzene	10	UUUUUUU
91-20-3-----Naphthalene	10	UUUUUUU
106-47-8-----4-Chloroaniline	10	UUUUUUU
87-68-3-----Hexachlorobutadiene	10	UUUUUUU
59-50-7-----4-Chloro-3-Methylphenol	10	UUUUUUU
91-57-6-----2-Methylnaphthalene	10	UUUUUUU
77-47-4-----Hexachlorocyclopentadiene	10	UUUUUUU
88-06-2-----2,4,6-Trichlorophenol	10	UUUUUUU
95-95-4-----2,4,5-Trichlorophenol	50	UUUUUUU
91-58-7-----2-Chloronaphthalene	10	UUUUUUU
88-74-4-----2-Nitroaniline	50	UUUUUUU
131-11-3-----Dimethylphthalate	10	UUUUUUU
208-96-8-----Acenaphthylene	10	UUUUUUU
606-20-2-----2,6-Dinitrotoluene	10	UUUUUUU
99-09-2-----3-Nitroaniline	50	UUUUUUU
83-32-9-----Acenaphthene	10	UUUUUUU

FORM I SV-1

3/90

F-219

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW3-1E-WO

Lab Name: E & E INC.

Contract:

Lab Code: EANDE Case No.: 597

SAS No.:

SDG No.: 23365

Matrix: (soil/water) WATER

Lab Sample ID: 23728

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: I1428

Level: (low/med) LOW

Date Received: 03/24/95

% Moisture: decanted: (Y/N)

Date Extracted: 03/29/95

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 04/03/95

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

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

CAS NO.

COMPOUND

Q

51-28-5-----	2,4-Dinitrophenol	50	U
100-02-7-----	4-Nitrophenol	50	UU
132-64-9-----	Dibenzofuran	10	UU
121-14-2-----	2,4-Dinitrotoluene	10	UU
84-66-2-----	Diethylphthalate	10	UU
7005-72-3-----	4-Chlorophenyl-phenylether	10	UU
86-73-7-----	Fluorene	10	UU
100-01-6-----	4-Nitroaniline	50	UU
534-52-1-----	4,6-Dinitro-2-methylphenol	50	UU
86-30-6-----	N-Nitrosodiphenylamine (1)	10	UU
101-55-3-----	4-Bromophenyl-phenylether	10	UU
118-74-1-----	Hexachlorobenzene	10	UU
87-86-5-----	Pentachlorophenol	50	UU
85-01-8-----	Phenanthrene	10	UU
120-12-7-----	Anthracene	10	UU
86-74-8-----	Carbazole	10	UU
84-74-2-----	Di-n-Butylphthalate	10	UU
206-44-0-----	Fluoranthene	10	UU
92-87-5-----	Benzidine	50	UU
55-85-0-----	Benzoic Acid	50	UU
100-51-6-----	Benzyl Alcohol	10	UU
129-00-0-----	Pyrene	10	UU
85-68-7-----	Butylbenzylphthalate	10	UU
91-94-1-----	3,3'-Dichlorobenzidine	20	UU
56-55-3-----	Benzo(a)Anthracene	10	UU
218-01-9-----	Chrysene	10	UU
117-81-7-----	bis(2-Ethylhexyl)Phthalate	10	UU
117-84-0-----	Di-n-Octyl Phthalate	10	UU
205-99-2-----	Benzo(b)Fluoranthene	10	UU
207-08-9-----	Benzo(k)Fluoranthene	10	UU
50-32-8-----	Benzo(a)Pyrene	10	UU
193-39-5-----	Indeno(1,2,3-cd)Pyrene	10	UU
53-70-3-----	Dibenz(a,h)Anthracene	10	UU
191-24-2-----	Benzo(g,h,i)Perylene	10	U

(1) - Cannot be separated from Diphenylamine
FORM I SV-2

3/90

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW3-1E-WO

Name: E & E INC.

Contract:

Lab Code: EANDE Case No.: 597

SAS No.:

SDG No.: 23365

Matrix: (soil/water) WATER

Lab Sample ID: 23728

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: I1428

Level: (low/med) LOW

Date Received: 03/24/95

% Moisture: decanted: (Y/N)

Date Extracted: 03/29/95

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 04/03/95

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

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

Number TICs found: 2

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 12-34-22	Aldol Condensation Product	5.55	33	ABJN
2.	UNKNOWN	23.20	7	J

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF WATER ANALYSIS FOR TENTATIVELY IDENTIFIED
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS

CLIENT	:	NM-8000 NIAGARA FALLS AFB	UNITS	:	UG/L
TEST NAME	:	SEMI-VOLATILES	MATRIX:		WATER
SAMPLE ID LAB	:	EE-95-23728	DATE RECEIVED	:	03/24/95
SAMPLE ID CLIENT:		NM8-MW3-1E-WO-032495	DATE EXTRACTED:		03/29/95
SDG #	:	23365	DATE ANALYZED	:	04/03/95
SAMPLE VOLUME:		1000 ML	INJECTION VOLUME:		2.0 UL
FINAL VOLUME	:	1000 UL	DILUTION FACTOR	:	1.0

9500.647

Total hydrocarbons
present as mass 57 4

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW3-6D-WO

Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 597

SAS No.:

SDG No.: 23365

Matrix: (soil/water) WATER

Lab Sample ID: 23633

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: I1430

Level: (low/med) LOW

Date Received: 03/23/95

% Moisture: decanted: (Y/N)

Date Extracted: 03/29/95

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 04/03/95

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

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

CAS NO.

COMPOUND

Q

108-95-2------Phenol	10	U
111-44-4------bis(2-Chloroethyl)Ether	10	UU
95-57-8------2-Chlorophenol	10	UUU
541-73-1------1,3-Dichlorobenzene	10	UUUU
106-46-7------1,4-Dichlorobenzene	10	UUUUU
95-50-1------1,2-Dichlorobenzene	10	UUUUUU
95-48-7------2-Methylphenol	10	UUUUUUU
108-60-1------2,2'-oxybis(1-Chloropropane)	10	UUUUUUUU
106-44-5------4-Methylphenol	10	UUUUUUUUU
621-64-7------N-Nitroso-Di-n-Propylamine	10	UUUUUUUUUU
67-72-1------Hexachloroethane	10	UUUUUUUUUUU
98-95-3------Nitrobenzene	10	UUUUUUUUUUUU
78-59-1------Isophorone	10	UUUUUUUUUUUUU
88-75-5------2-Nitrophenol	10	UUUUUUUUUUUUUU
105-67-9------2,4-Dimethylphenol	10	UUUUUUUUUUUUUUU
111-91-1------bis(2-Chloroethoxy)Methane	10	UUUUUUUUUUUUUUUU
120-83-2------2,4-Dichlorophenol	10	UUUUUUUUUUUUUUUUU
120-82-1------1,2,4-Trichlorobenzene	10	UUUUUUUUUUUUUUUUUU
91-20-3------Naphthalene	10	UUUUUUUUUUUUUUUUUUU
106-47-8------4-Chloroaniline	10	UUUUUUUUUUUUUUUUUUUU
87-68-3------Hexachlorobutadiene	10	UUUUUUUUUUUUUUUUUUUUU
59-50-7------4-Chloro-3-Methylphenol	10	UUUUUUUUUUUUUUUUUUUUUU
91-57-6------2-Methylnaphthalene	10	UUUUUUUUUUUUUUUUUUUUUUU
77-47-4------Hexachlorocyclopentadiene	10	UUUUUUUUUUUUUUUUUUUUUUUU
88-06-2------2,4,6-Trichlorophenol	10	UUUUUUUUUUUUUUUUUUUUUUUUU
95-95-4------2,4,5-Trichlorophenol	50	UUUUUUUUUUUUUUUUUUUUUUUUUU
91-58-7------2-Chloronaphthalene	10	UUUUUUUUUUUUUUUUUUUUUUUUUUU
88-74-4------2-Nitroaniline	50	UUUUUUUUUUUUUUUUUUUUUUUUUUU
131-11-3------Dimethylphthalate	10	UUUUUUUUUUUUUUUUUUUUUUUUUUU
208-96-8------Acenaphthylene	10	UUUUUUUUUUUUUUUUUUUUUUUUUUU
606-20-2------2,6-Dinitrotoluene	10	UUUUUUUUUUUUUUUUUUUUUUUUUUU
99-09-2------3-Nitroaniline	50	UUUUUUUUUUUUUUUUUUUUUUUUUUU
83-32-9------Acenaphthene	10	UUUUUUUUUUUUUUUUUUUUUUUUUUU

FORM I SV-1

3/90

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW3-6D-WO

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 597

SAS No.:

SDG No.: 23365

Matrix: (soil/water) WATER

Lab Sample ID: 23633

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: I1430

Level: (low/med) LOW

Date Received: 03/23/95

% Moisture: decanted: (Y/N)

Date Extracted: 03/29/95

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 04/03/95

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

PC Cleanup: (Y/N) N

pH:

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

Q

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5-----	2,4-Dinitrophenol	50	U
100-02-7-----	4-Nitrophenol	50	U
132-64-9-----	Dibenzofuran	10	U
121-14-2-----	2,4-Dinitrotoluene	10	U
84-66-2-----	Diethylphthalate	10	U
7005-72-3-----	4-Chlorophenyl-phenylether	10	U
86-73-7-----	Fluorene	10	U
100-01-6-----	4-Nitroaniline	50	U
534-52-1-----	4,6-Dinitro-2-methylphenol	50	U
86-30-6-----	N-Nitrosodiphenylamine (1)	10	U
101-55-3-----	4-Bromophenyl-phenylether	10	U
118-74-1-----	Hexachlorobenzene	10	U
87-86-5-----	Pentachlorophenol	50	U
85-01-8-----	Phenanthrene	10	U
120-12-7-----	Anthracene	10	U
86-74-8-----	Carbazole	10	U
84-74-2-----	Di-n-Butylphthalate	10	U
206-44-0-----	Fluoranthene	10	U
92-87-5-----	Benzidine	50	U
55-85-0-----	Benzoic Acid	50	U
100-51-6-----	Benzyl Alcohol	10	U
129-00-0-----	Pyrene	10	U
85-68-7-----	Butylbenzylphthalate	10	U
91-94-1-----	3,3'-Dichlorobenzidine	20	U
56-55-3-----	Benzo(a)Anthracene	10	U
218-01-9-----	Chrysene	10	U
117-81-7-----	bis(2-Ethylhexyl)Phthalate	10	U
117-84-0-----	Di-n-Octyl Phthalate	10	U
205-99-2-----	Benzo(b)Fluoranthene	10	U
207-08-9-----	Benzo(k)Fluoranthene	10	U
50-32-8-----	Benzo(a)Pyrene	10	U
193-39-5-----	Indeno(1,2,3-cd)Pyrene	10	U
53-70-3-----	Dibenz(a,h)Anthracene	10	U
191-24-2-----	Benzo(g,h,i)Perylene	10	U

(1) - Cannot be separated from Diphenylamine
FORM I SV-2

3/90

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW3-6D-WO

Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 597

SAS No.:

SDG No.: 23365

Matrix: (soil/water) WATER

Lab Sample ID: 23633

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: I1430

Level: (low/med) LOW

Date Received: 03/23/95

% Moisture: decanted: (Y/N)

Date Extracted: 03/29/95

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 04/03/95

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs found: 2

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 12-34-22	Aldol Condensation Product	5.58	49	ABJN
2.	UNKNOWN	23.20	5	J

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF WATER ANALYSIS FOR TENTATIVELY IDENTIFIED
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS

CLIENT : NM-8000 NIAGARA FALLS AFB
TEST NAME : SEMI-VOLATILES
SAMPLE ID LAB : EE-95-23633
SAMPLE ID CLIENT: NM8-MW3-6D-WO-032395
SDG # : 23365

SAMPLE VOLUME: 1000 ML
FINAL VOLUME : 1000 UL

UNITS : UG/L
MATRIX: WATER
DATE RECEIVED : 03/23/95
DATE EXTRACTED: 03/29/95
DATE ANALYZED : 04/03/95
INJECTION VOLUME: 2.0 UL
DILUTION FACTOR : 1.0

9500.633

Total hydrocarbons
present as mass 57

6

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB3-3-SO

Name: E & E INC. Contract: _____
 Lab Code: EANDE Case No.: 597 SAS No.: _____ SDG No.: 23365
 Matrix: (soil/water) SOIL Lab Sample ID: 23488
 Sample wt/vol: 30.0 (g/mL) G Lab File ID: G9929
 Level: (low/med) LOW Date Received: 03/20/95
 % Moisture: 23 decanted: (Y/N) N Date Extracted: 03/23/95
 Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/07/95
 Injection Volume: 2.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) Y pH: _____

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

CAS NO.	COMPOUND	CONCENTRATION	Q
108-95-2	Phenol	430	U
111-44-4	bis(2-Chloroethyl) Ether	430	UU
95-57-8	2-Chlorophenol	430	UU
541-73-1	1,3-Dichlorobenzene	430	UU
106-46-7	1,4-Dichlorobenzene	430	UU
95-50-1	1,2-Dichlorobenzene	430	UU
95-48-7	2-Methylphenol	430	UU
108-60-1	2,2'-oxybis(1-Chloropropane)	430	UU
106-44-5	4-Methylphenol	430	UU
621-64-7	N-Nitroso-Di-n-Propylamine	430	UU
67-72-1	Hexachloroethane	430	UU
98-95-3	Nitrobenzene	430	UU
78-59-1	Isophorone	430	UU
88-75-5	2-Nitrophenol	430	UU
105-67-9	2,4-Dimethylphenol	430	UU
111-91-1	bis(2-Chloroethoxy)Methane	430	UU
120-83-2	2,4-Dichlorophenol	430	UU
120-82-1	1,2,4-Trichlorobenzene	430	UU
91-20-3	Naphthalene	430	UU
106-47-8	4-Chloroaniline	430	UU
87-68-3	Hexachlorobutadiene	430	UU
59-50-7	4-Chloro-3-Methylphenol	430	UU
91-57-6	2-Methylnaphthalene	430	UU
77-47-4	Hexachlorocyclopentadiene	430	UU
88-06-2	2,4,6-Trichlorophenol	430	UU
95-95-4	2,4,5-Trichlorophenol	2100	UU
91-58-7	2-Chloronaphthalene	430	UU
88-74-4	2-Nitroaniline	2100	UU
131-11-3	Dimethylphthalate	430	UU
208-96-8	Acenaphthylene	430	UU
606-20-2	2,6-Dinitrotoluene	430	UU
99-09-2	3-Nitroaniline	2100	UU
83-32-9	Acenaphthene	430	UU

FORM I SV-1

3/90

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB3-3-SO

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 597

SAS No.:

SDG No.: 23365

Matrix: (soil/water) SOIL

Lab Sample ID: 23488

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: G9929

Level: (low/med) LOW

Date Received: 03/20/95

% Moisture: 23 decanted: (Y/N) N

Date Extracted: 03/23/95

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 04/07/95

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH:

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

CAS NO.

COMPOUND

Q

51-28-5-----	2,4-Dinitrophenol	2100	U
100-02-7-----	4-Nitrophenol	2100	U
132-64-9-----	Dibenzofuran	430	U
121-14-2-----	2,4-Dinitrotoluene	430	U
84-66-2-----	Diethylphthalate	430	U
7005-72-3-----	4-Chlorophenyl-phenylether	430	U
86-73-7-----	Fluorene	430	U
100-01-6-----	4-Nitroaniline	2100	U
534-52-1-----	4,6-Dinitro-2-methylphenol	2100	U
86-30-6-----	N-Nitrosodiphenylamine (1)	430	U
101-55-3-----	4-Bromophenyl-phenylether	430	U
118-74-1-----	Hexachlorobenzene	430	U
87-86-5-----	Pentachlorophenol	2100	U
85-01-8-----	Phenanthrene	430	U
120-12-7-----	Anthracene	430	U
86-74-8-----	Carbazole	430	U
84-74-2-----	Di-n-Butylphthalate	430	U
206-44-0-----	Fluoranthene	430	U
92-87-5-----	Benzidine	2100	U
55-85-0-----	Benzoic Acid	2100	U
100-51-6-----	Benzyl Alcohol	430	U
129-00-0-----	Pyrene	430	U
85-68-7-----	Butylbenzylphthalate	430	U
91-94-1-----	3,3'-Dichlorobenzidine	860	U
56-55-3-----	Benzo(a)Anthracene	430	U
218-01-9-----	Chrysene	430	U
117-81-7-----	bis(2-Ethylhexyl)Phthalate	140	J
117-84-0-----	Di-n-Octyl Phthalate	430	U
205-99-2-----	Benzo(b)Fluoranthene	430	U
207-08-9-----	Benzo(k)Fluoranthene	430	U
50-32-8-----	Benzo(a)Pyrene	430	U
193-39-5-----	Indeno(1,2,3-cd)Pyrene	430	U
53-70-3-----	Dibenz(a,h)Anthracene	430	U
191-24-2-----	Benzo(g,h,i)Perylene	430	U

(1) - Cannot be separated from Diphenylamine
FORM I SV-2

3/90

1F
 SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SB3-3-SO

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 597

SAS No.:

SDG No.: 23365

Matrix: (soil/water) SOIL

Lab Sample ID: 23488

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: G9929

Level: (low/med) LOW

Date Received: 03/20/95

% Moisture: 23 decanted: (Y/N) N

Date Extracted: 03/23/95

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 04/07/95

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH:

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

Number TICs found: 20

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	3.08	170	J
2.	UNKNOWN	3.46	430	J
3. 12-34-22	Aldol Condensation Product	4.41	26000	ABJN
4.	UNKNOWN	6.04	2000	BJ
5.	UNKNOWN	6.34	130	BJ
6.	UNKNOWN	6.73	320	BJ
7.	UNKNOWN	7.92	2000	BJ
8.	UNKNOWN	9.42	2200	J
9.	UNKNOWN	11.22	240	J
10.	UNKNOWN	11.82	130	J
11.	UNKNOWN CARBOXYLIC ACID	24.55	370	BJ
12.	UNKNOWN HYDROCARBON	26.73	220	J
13.	UNKNOWN CARBOXYLIC ACID	27.03	280	BJ
14.	UNKNOWN HYDROCARBON	32.08	150	J
15.	UNKNOWN OXY. HYDROCARBON	32.85	220	J
16.	UNKNOWN OXY. HYDROCARBON	34.01	600	J
17.	UNKNOWN	34.81	540	J
18.	UNKNOWN OXY. HYDROCARBON	35.82	150	J
19.	UNKNOWN HYDROCARBON	36.36	240	J
20.	UNKNOWN	39.34	130	J

FORM I SV-TIC

3/90

F-229

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF SOIL ANALYSIS FOR TENTATIVELY IDENTIFIED
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS

CLIENT	: NM-8000 NIAGARA FALLS AFB	SOLIDS	: 77 %
TEST NAME	: SEMI-VOLATILES	UNITS	: UG/KG
SAMPLE ID LAB	: EE-95-23488	MATRIX	: SOLID
SAMPLE ID CLIENT	: NM8-SB3-3-SO-032095	DATE RECEIVED	: 03/20/95
SDG #	: 23365	DATE EXTRACTED	: 03/23/95
		DATE ANALYZED	: 04/07/95
SAMPLE VOLUME	: 30 G	INJECTION VOLUME	: 2.0 UL
FINAL VOLUME	: 500 UL	DILUTION FACTOR	: 1.0

9500.614

Total hydrocarbons
present as mass 57 920

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB3-4-SO

Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 597

SAS No.:

SDG No.: 23365

Matrix: (soil/water) SOIL

Lab Sample ID: 23489

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: G9930

Level: (low/med) LOW

Date Received: 03/20/95

% Moisture: 12 decanted: (Y/N) N

Date Extracted: 03/23/95

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 04/07/95

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH:

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

Q

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	370	U
111-44-4	bis(2-Chloroethyl) Ether	370	UU
95-57-8	2-Chlorophenol	370	UU
541-73-1	1,3-Dichlorobenzene	370	UU
106-46-7	1,4-Dichlorobenzene	370	UU
95-50-1	1,2-Dichlorobenzene	370	UU
95-48-7	2-Methylphenol	370	UU
108-60-1	2,2'-oxybis(1-Chloropropane)	370	UU
106-44-5	4-Methylphenol	370	UU
621-64-7	N-Nitroso-Di-n-Propylamine	370	UU
67-72-1	Hexachloroethane	370	UU
98-95-3	Nitrobenzene	370	UU
78-59-1	Isophorone	370	UU
88-75-5	2-Nitrophenol	370	UU
105-67-9	2,4-Dimethylphenol	370	UU
111-91-1	bis(2-Chloroethoxy) Methane	370	UU
120-83-2	2,4-Dichlorophenol	370	UU
120-82-1	1,2,4-Trichlorobenzene	370	UU
91-20-3	Naphthalene	370	UU
106-47-8	4-Chloroaniline	370	UU
87-68-3	Hexachlorobutadiene	370	UU
59-50-7	4-Chloro-3-Methylphenol	370	UU
91-57-6	2-Methylnaphthalene	370	UU
77-47-4	Hexachlorocyclopentadiene	370	UU
88-06-2	2,4,6-Trichlorophenol	370	UU
95-95-4	2,4,5-Trichlorophenol	1800	UU
91-58-7	2-Chloronaphthalene	370	UU
88-74-4	2-Nitroaniline	1800	UU
131-11-3	Dimethylphthalate	370	UU
208-96-8	Acenaphthylene	370	UU
606-20-2	2,6-Dinitrotoluene	370	UU
99-09-2	3-Nitroaniline	1800	UU
83-32-9	Acenaphthene	370	UU

FORM I SV-1

3/90

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB3-4-SO

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 597

SAS No.:

SDG No.: 23365

Matrix: (soil/water) SOIL

Lab Sample ID: 23489

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: G9930

Level: (low/med) LOW

Date Received: 03/20/95

% Moisture: 12 decanted: (Y/N) N

Date Extracted: 03/23/95

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 04/07/95

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

EPC Cleanup: (Y/N) Y

pH:

CONCENTRATION UNITS:

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

Q

CAS NO.

COMPOUND

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1800	U
100-02-7	4-Nitrophenol	1800	U
132-64-9	Dibenzofuran	370	U
121-14-2	2,4-Dinitrotoluene	370	U
84-66-2	Diethylphthalate	370	U
7005-72-3	4-Chlorophenyl-phenylether	370	U
86-73-7	Fluorene	370	U
100-01-6	4-Nitroaniline	1800	U
534-52-1	4,6-Dinitro-2-methylphenol	1800	U
86-30-6	N-Nitrosodiphenylamine (1)	370	U
101-55-3	4-Bromophenyl-phenylether	370	U
118-74-1	Hexachlorobenzene	370	U
87-86-5	Pentachlorophenol	1800	U
85-01-8	Phenanthrene	370	U
120-12-7	Anthracene	370	U
86-74-8	Carbazole	370	U
84-74-2	Di-n-Butylphthalate	370	U
206-44-0	Fluoranthene	370	U
92-87-5	Benzidine	1800	U
55-85-0	Benzoic Acid	1800	U
100-51-6	Benzyl Alcohol	370	U
129-00-0	Pyrene	370	U
85-68-7	Butylbenzylphthalate	370	U
91-94-1	3,3'-Dichlorobenzidine	750	U
56-55-3	Benzo(a)Anthracene	370	U
218-01-9	Chrysene	370	U
117-81-7	bis(2-Ethylhexyl)Phthalate	61	J
117-84-0	Di-n-Octyl Phthalate	370	U
205-99-2	Benzo(b)Fluoranthene	370	U
207-08-9	Benzo(k)Fluoranthene	370	U
50-32-8	Benzo(a)Pyrene	370	U
193-39-5	Indeno(1,2,3-cd)Pyrene	370	U
53-70-3	Dibenz(a,h)Anthracene	370	U
191-24-2	Benzo(g,h,i)Perylene	370	U

(1) - Cannot be separated from Diphenylamine
FORM I SV-2

3/90

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SB3-4-SO

Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 597

SAS No.:

SDG No.: 23365

Matrix: (soil/water) SOIL

Lab Sample ID: 23489

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: G9930

Level: (low/med) LOW

Date Received: 03/20/95

% Moisture: 12 decanted: (Y/N) N

Date Extracted: 03/23/95

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 04/07/95

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH:

Number TICs found: 14

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	DIMETHYLFURAN ISOMER	2.11	75	J
2.	UNKNOWN	2.39	94	J
3.	UNKNOWN	3.09	340	J
4.	UNKNOWN	3.27	94	J
5.	UNKNOWN	3.48	410	J
6.	UNKNOWN	3.77	110	J
7. 12-34-22	Aldol Condensation Product	4.38	21000	ABJN
8.	UNKNOWN	6.03	1700	BJ
9.	UNKNOWN	6.34	94	BJ
10.	UNKNOWN	6.72	570	BJ
11.	UNKNOWN	7.71	190	J
12.	UNKNOWN	7.84	470	BJ
13.	UNKNOWN	11.20	230	J
14.	UNKNOWN	33.77	75	J

FORM I SV-TIC

3/90

F-233

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF SOIL ANALYSIS FOR TENTATIVELY IDENTIFIED
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS

CLIENT	: NM-8000 NIAGARA FALLS AFB	SOLIDS	: 88 %
TEST NAME	: SEMI-VOLATILES	UNITS	: UG/KG
SAMPLE ID LAB	: EE-95-23489	MATRIX	: SOLID
SAMPLE ID CLIENT	: NM8-SB3-4-SO-032095	DATE RECEIVED	: 03/20/95
SDG #	: 23365	DATE EXTRACTED	: 03/23/95
		DATE ANALYZED	: 04/07/95
SAMPLE VOLUME	: 30 G	INJECTION VOLUME	: 2.0 UL
FINAL VOLUME	: 500 UL	DILUTION FACTOR	: 1.0

9500.614

Total hydrocarbons
present as mass 57 680

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB3-5-SO

Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 597

SAS No.:

SDG No.: 23365

Matrix: (soil/water) SOIL

Lab Sample ID: 23490

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: G9931

Level: (low/med) LOW

Date Received: 03/20/95

% Moisture: 7 decanted: (Y/N) N

Date Extracted: 03/23/95

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 04/07/95

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH:

CONCENTRATION UNITS:

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

Q

CAS NO.

COMPOUND

108-95-2	Phenol	350	U
111-44-4	bis(2-Chloroethyl)Ether	350	U
95-57-8	2-Chlorophenol	350	U
541-73-1	1,3-Dichlorobenzene	350	U
106-46-7	1,4-Dichlorobenzene	350	U
95-50-1	1,2-Dichlorobenzene	350	U
95-48-7	2-Methylphenol	350	U
108-60-1	2,2'-oxybis(1-Chloropropane)	350	U
106-44-5	4-Methylphenol	350	U
621-64-7	N-Nitroso-Di-n-Propylamine	350	U
67-72-1	Hexachloroethane	350	U
98-95-3	Nitrobenzene	350	U
78-59-1	Isophorone	350	U
88-75-5	2-Nitrophenol	350	U
105-67-9	2,4-Dimethylphenol	350	U
111-91-1	bis(2-Chloroethoxy)Methane	350	U
120-83-2	2,4-Dichlorophenol	350	U
120-82-1	1,2,4-Trichlorobenzene	350	U
91-20-3	Naphthalene	350	U
106-47-8	4-Chloroaniline	350	U
87-68-3	Hexachlorobutadiene	350	U
59-50-7	4-Chloro-3-Methylphenol	350	U
91-57-6	2-Methylnaphthalene	350	U
77-47-4	Hexachlorocyclopentadiene	350	U
88-06-2	2,4,6-Trichlorophenol	350	U
95-95-4	2,4,5-Trichlorophenol	1700	U
91-58-7	2-Chloronaphthalene	350	U
88-74-4	2-Nitroaniline	1700	U
131-11-3	Dimethylphthalate	350	U
208-96-8	Acenaphthylene	350	U
606-20-2	2,6-Dinitrotoluene	350	U
99-09-2	3-Nitroaniline	1700	U
83-32-9	Acenaphthene	350	U

FORM I SV-1

3/90

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB3-5-SO

Name: E & E INC. Contract: _____
 Lab Code: EANDE Case No.: 597 SAS No.: _____ SDG No.: 23365
 Matrix: (soil/water) SOIL Lab Sample ID: 23490
 Sample wt/vol: 30.0 (g/mL) G Lab File ID: G9931
 Level: (low/med) LOW Date Received: 03/20/95
 % Moisture: 7 decanted: (Y/N) N Date Extracted: 03/23/95
 Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/07/95
 Injection Volume: 2.0 (uL) Dilution Factor: 1.0

Cleanup: (Y/N) Y pH: _____

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1700	U
100-02-7	4-Nitrophenol	1700	U
132-64-9	Dibenzofuran	350	U
121-14-2	2,4-Dinitrotoluene	350	U
84-66-2	Diethylphthalate	350	U
7005-72-3	4-Chlorophenyl-phenylether	350	U
86-73-7	Fluorene	350	U
100-01-6	4-Nitroaniline	1700	U
534-52-1	4,6-Dinitro-2-methylphenol	1700	U
86-30-6	N-Nitrosodiphenylamine (1)	350	U
101-55-3	4-Bromophenyl-phenylether	350	U
118-74-1	Hexachlorobenzene	350	U
87-86-5	Pentachlorophenol	1700	U
85-01-8	Phenanthrene	350	U
120-12-7	Anthracene	350	U
86-74-8	Carbazole	350	U
84-74-2	Di-n-Butylphthalate	350	U
206-44-0	Fluoranthene	350	U
92-87-5	Benzidine	1700	U
55-85-0	Benzoic Acid	1700	U
100-51-6	Benzyl Alcohol	350	U
129-00-0	Pyrene	350	U
85-68-7	Butylbenzylphthalate	350	U
91-94-1	3,3'-Dichlorobenzidine	710	U
56-55-3	Benzo (a) Anthracene	350	U
218-01-9	Chrysene	350	U
117-81-7	bis(2-Ethylhexyl) Phthalate	130	J
117-84-0	Di-n-Octyl Phthalate	350	U
205-99-2	Benzo (b) Fluoranthene	350	U
207-08-9	Benzo (k) Fluoranthene	350	U
50-32-8	Benzo (a) Pyrene	350	U
193-39-5	Indeno (1,2,3-cd) Pyrene	350	U
53-70-3	Dibenz (a,h) Anthracene	350	U
191-24-2	Benzo (g,h,i) Perylene	350	U

(1) - Cannot be separated from Diphenylamine
FORM I SV-2

3/90

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SB3-5-SO

Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 597

SAS No.:

SDG No.: 23365

Matrix: (soil/water) SOIL

Lab Sample ID: 23490

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: G9931

Level: (low/med) LOW

Date Received: 03/20/95

% Moisture: 7 decanted: (Y/N) N

Date Extracted: 03/23/95

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 04/07/95

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH:

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

Number TICs found: 20

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	2.40	120	J
2.	UNKNOWN	3.12	410	J
3.	UNKNOWN	3.28	71	J
4.	UNKNOWN	3.49	360	J
5.	UNKNOWN	3.61	71	J
6.	UNKNOWN	3.80	89	J
7. 12-34-22	Aldol Condensation Product	4.39	21000	ABJN
8.	UNKNOWN	6.04	1700	J
9.	UNKNOWN	6.34	71	BJ
10.	UNKNOWN	6.71	540	BJ
11.	UNKNOWN	7.69	160	J
12.	UNKNOWN	7.82	320	BJ
13.	UNKNOWN	11.20	210	J
14.	UNKNOWN	12.26	89	J
15.	UNKNOWN OXY. HYDROCARBON	26.28	230	J
16.	UNKNOWN HYDROCARBON	28.60	89	J
17.	UNKNOWN HYDROCARBON	30.72	89	J
18.	UNKNOWN HYDROCARBON	32.70	89	J
19.	UNKNOWN	33.76	620	J
20.	UNKNOWN	36.78	460	J

FORM I SV-TIC

3/90

F-237

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF SOIL ANALYSIS FOR TENTATIVELY IDENTIFIED
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS

CLIENT	: NM-8000 NIAGARA FALLS AFB	SOLIDS	: 93 %
TEST NAME	: SEMI-VOLATILES	UNITS	: UG/KG
SAMPLE ID LAB	: EE-95-23490	MATRIX	: SOLID
SAMPLE ID CLIENT	: NM8-SB3-5-SO-032095	DATE RECEIVED	: 03/20/95
SDG #	: 23365	DATE EXTRACTED	: 03/23/95
		DATE ANALYZED	: 04/07/95
SAMPLE VOLUME:	30 G	INJECTION VOLUME	: 2.0 UL
FINAL VOLUME	: 500 UL	DILUTION FACTOR	: 1.0

9500.614

Total hydrocarbons
present as mass 57 540

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB3-6-SO

Name: E & E INC. Contract: _____
 Lab Code: EANDE Case No.: 597 SAS No.: _____ SDG No.: 23365
 Matrix: (soil/water) SOIL Lab Sample ID: 23491
 Sample wt/vol: 30.0 (g/mL) G Lab File ID: G9932
 Level: (low/med) LOW Date Received: 03/20/95
 % Moisture: 13 decanted: (Y/N) N Date Extracted: 03/23/95
 Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/07/95
 Injection Volume: 2.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) Y pH: _____

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	380	U
111-44-4	bis(2-Chloroethyl) Ether	380	UU
95-57-8	2-Chlorophenol	380	UUU
541-73-1	1,3-Dichlorobenzene	380	UUUU
106-46-7	1,4-Dichlorobenzene	380	UUUU
95-50-1	1,2-Dichlorobenzene	380	UUUU
95-48-7	2-Methylphenol	380	UUUU
108-60-1	2,2'-oxybis(1-Chloropropane)	380	UUUU
106-44-5	4-Methylphenol	380	UUUU
621-64-7	N-Nitroso-Di-n-Propylamine	380	UUUU
67-72-1	Hexachloroethane	380	UUUU
98-95-3	Nitrobenzene	380	UUUU
78-59-1	Isophorone	380	UUUU
88-75-5	2-Nitrophenol	380	UUUU
105-67-9	2,4-Dimethylphenol	380	UUUU
111-91-1	bis(2-Chloroethoxy)Methane	380	UUUU
120-83-2	2,4-Dichlorophenol	380	UUUU
120-82-1	1,2,4-Trichlorobenzene	380	UUUU
91-20-3	Naphthalene	380	UUUU
106-47-8	4-Chloroaniline	380	UUUU
87-68-3	Hexachlorobutadiene	380	UUUU
59-50-7	4-Chloro-3-Methylphenol	380	UUUU
91-57-6	2-Methylnaphthalene	380	UUUU
77-47-4	Hexachlorocyclopentadiene	380	UUUU
88-06-2	2,4,6-Trichlorophenol	380	UUUU
95-95-4	2,4,5-Trichlorophenol	1800	UUUU
91-58-7	2-Chloronaphthalene	380	UUUU
88-74-4	2-Nitroaniline	1800	UUUU
131-11-3	Dimethylphthalate	380	UUUU
208-96-8	Acenaphthylene	380	UUUU
606-20-2	2,6-Dinitrotoluene	380	UUUU
99-09-2	3-Nitroaniline	1800	UUUU
83-32-9	Acenaphthene	380	UUUU

FORM I SV-1

3/90

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB3-6-SO

Lab Name: E & E INC.

Contract:

Lab Code: EANDE Case No.: 597

SAS No.:

SDG No.: 23365

Matrix: (soil/water) SOIL

Lab Sample ID: 23491

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: G9932

Level: (low/med) LOW

Date Received: 03/20/95

% Moisture: 13 decanted: (Y/N) N

Date Extracted: 03/23/95

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 04/07/95

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

Cleanup: (Y/N) Y

pH:

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

51-28-5-----	2,4-Dinitrophenol	1800	U
100-02-7-----	4-Nitrophenol	1800	U
132-64-9-----	Dibenzofuran	380	U
121-14-2-----	2,4-Dinitrotoluene	380	U
84-66-2-----	Diethylphthalate	380	U
7005-72-3-----	4-Chlorophenyl-phenylether	380	U
86-73-7-----	Fluorene	380	U
100-01-6-----	4-Nitroaniline	1800	U
534-52-1-----	4,6-Dinitro-2-methylphenol	1800	U
86-30-6-----	N-Nitrosodiphenylamine (1)	380	U
101-55-3-----	4-Bromophenyl-phenylether	380	U
118-74-1-----	Hexachlorobenzene	380	U
87-86-5-----	Pentachlorophenol	1800	U
85-01-8-----	Phenanthrene	160	J
120-12-7-----	Anthracene	380	U
86-74-8-----	Carbazole	380	U
84-74-2-----	Di-n-Butylphthalate	380	U
206-44-0-----	Fluoranthene	220	J
92-87-5-----	Benzidine	1800	U
55-85-0-----	Benzoic Acid	1800	U
100-51-6-----	Benzyl Alcohol	260	U
129-00-0-----	Pyrene	260	J
85-68-7-----	Butylbenzylphthalate	380	U
91-94-1-----	3,3'-Dichlorobenzidine	760	U
56-55-3-----	Benzo (a) Anthracene	140	J
218-01-9-----	Chrysene	110	J
117-81-7-----	bis(2-Ethylhexyl) Phthalate	130	J
117-84-0-----	Di-n-Octyl Phthalate	380	U
205-99-2-----	Benzo (b) Fluoranthene	200	J
207-08-9-----	Benzo (k) Fluoranthene	52	J
50-32-8-----	Benzo (a) Pyrene	110	J
193-39-5-----	Indeno (1,2,3-cd) Pyrene	110	J
53-70-3-----	Dibenz (a,h) Anthracene	43	J
191-24-2-----	Benzo (g,h,i) Perylene	93	J

(1) - Cannot be separated from Diphenylamine
FORM I SV-2

3/90

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SB3-6-SO

Name: E & E INC. Contract: _____
 Lab Code: EANDE Case No.: 597 SAS No.: _____ SDG No.: 23365
 Matrix: (soil/water) SOIL Lab Sample ID: 23491
 Sample wt/vol: 30.0 (g/mL) G Lab File ID: G9932
 Level: (low/med) LOW Date Received: 03/20/95
 % Moisture: .13 decanted: (Y/N) N Date Extracted: 03/23/95
 Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/07/95
 Injection Volume: 2.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) Y pH: _____

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

Number TICs found: 20

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	3.07	480	J
2.	UNKNOWN	3.23	130	J
3.	UNKNOWN	3.46	500	J
4.	UNKNOWN	3.75	110	J
5. 12-34-22	Aldol Condensation Product	4.39	25000	ABJN
6.	UNKNOWN	5.37	110	J
7.	UNKNOWN	6.04	2100	BJ
8.	UNKNOWN	6.35	290	BJ
9.	UNKNOWN	6.71	230	BJ
10.	UNKNOWN	7.15	170	BJ
11.	UNKNOWN	9.39	2100	J
12.	UNKNOWN CARBOXYLIC ACID	21.85	95	J
13.	UNKNOWN CARBOXYLIC ACID	24.60	550	BJ
14.	UNKNOWN	26.78	130	J
15.	DDD ISOMER	28.32	710	J
16.	DDT ISOMER	29.23	400	J
17.	UNKNOWN	30.86	130	J
18.	UNKNOWN	32.88	360	J
19.	UNKNOWN	34.78	270	J
20.	UNKNOWN HYDROCARBON	36.37	190	J

FORM I SV-TIC

3/90

F-241

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF SOIL ANALYSIS FOR TENTATIVELY IDENTIFIED
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS

CLIENT	: NM-8000 NIAGARA FALLS AFB	SOLIDS	: 87 %
TEST NAME	: SEMI-VOLATILES	UNITS	: UG/KG
SAMPLE ID LAB	: EE-95-23491	MATRIX	: SOLID
SAMPLE ID CLIENT	: NM8-SB3-6-SO-032095	DATE RECEIVED	: 03/20/95
SDG #	: 23365	DATE EXTRACTED	: 03/23/95
		DATE ANALYZED	: 04/07/95
SAMPLE VOLUME	: 30 G	INJECTION VOLUME	: 2.0 UL
FINAL VOLUME	: 500 UL	DILUTION FACTOR	: 1.0

9500.614

Total hydrocarbons
present as mass 57 740

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SB3-7-SD

Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 597

SAS No.:

SDG No.: 23365

Matrix: (soil/water) SOIL

Lab Sample ID: 23366

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: G9838

Level: (low/med) LOW

Date Received: 03/21/95

% Moisture: 20 decanted: (Y/N) N

Date Extracted: 03/23/95

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 03/30/95

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH:

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

CAS NO. COMPOUND

Q

108-95-2	Phenol	410	U
111-44-4	bis(2-Chloroethyl) Ether	410	U
95-57-8	2-Chlorophenol	410	U
541-73-1	1,3-Dichlorobenzene	410	U
106-46-7	1,4-Dichlorobenzene	410	U
95-50-1	1,2-Dichlorobenzene	410	U
95-48-7	2-Methylphenol	410	U
108-60-1	2,2'-oxybis(1-Chloropropane)	410	U
106-44-5	4-Methylphenol	410	U
621-64-7	N-Nitroso-Di-n-Propylamine	410	U
67-72-1	Hexachloroethane	410	U
98-95-3	Nitrobenzene	410	U
78-59-1	Isophorone	410	U
88-75-5	2-Nitrophenol	410	U
105-67-9	2,4-Dimethylphenol	410	U
111-91-1	bis(2-Chloroethoxy)Methane	410	U
120-83-2	2,4-Dichlorophenol	410	U
120-82-1	1,2,4-Trichlorobenzene	410	U
91-20-3	Naphthalene	410	U
106-47-8	4-Chloroaniline	410	U
87-68-3	Hexachlorobutadiene	410	U
59-50-7	4-Chloro-3-Methylphenol	410	U
91-57-6	2-Methylnaphthalene	410	U
77-47-4	Hexachlorocyclopentadiene	410	U
88-06-2	2,4,6-Trichlorophenol	410	U
95-95-4	2,4,5-Trichlorophenol	2000	U
91-58-7	2-Chloronaphthalene	410	U
88-74-4	2-Nitroaniline	2000	U
131-11-3	Dimethylphthalate	410	U
208-96-8	Acenaphthylene	410	U
606-20-2	2,6-Dinitrotoluene	410	U
99-09-2	3-Nitroaniline	2000	U
83-32-9	Acenaphthene	410	U

FORM I SV-1

3/90

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB3-7-SD

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 597

SAS No.:

SDG No.: 23365

Matrix: (soil/water) SOIL

Lab Sample ID: 23366

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: G9838

Level: (low/med) LOW

Date Received: 03/21/95

% Moisture: 20 decanted: (Y/N) N

Date Extracted: 03/23/95

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 03/30/95

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH:

CONCENTRATION UNITS:

CAS NO.

COMPOUND

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

Q

51-28-5-----	2,4-Dinitrophenol	2000	U
100-02-7-----	4-Nitrophenol	2000	U
132-64-9-----	Dibenzofuran	410	U
121-14-2-----	2,4-Dinitrotoluene	410	U
84-66-2-----	Diethylphthalate	410	U
7005-72-3-----	4-Chlorophenyl-phenylether	410	U
86-73-7-----	Fluorene	410	U
100-01-6-----	4-Nitroaniline	2000	U
534-52-1-----	4,6-Dinitro-2-methylphenol	2000	U
86-30-6-----	N-Nitrosodiphenylamine (1)	410	U
101-55-3-----	4-Bromophenyl-phenylether	410	U
118-74-1-----	Hexachlorobenzene	410	U
87-86-5-----	Pentachlorophenol	2000	U
85-01-8-----	Phenanthrene	410	U
120-12-7-----	Anthracene	410	U
86-74-8-----	Carbazole	410	U
84-74-2-----	Di-n-Butylphthalate	410	U
206-44-0-----	Fluoranthene	410	U
92-87-5-----	Benzidine	2000	U
55-85-0-----	Benzoic Acid	2000	U
100-51-6-----	Benzyl Alcohol	410	U
129-00-0-----	Pyrene	410	U
85-68-7-----	Butylbenzylphthalate	67	J
91-94-1-----	3,3'-Dichlorobenzidine	820	U
56-55-3-----	Benzo(a)Anthracene	410	U
218-01-9-----	Chrysene	410	U
117-81-7-----	bis(2-Ethylhexyl) Phthalate	130	J
117-84-0-----	Di-n-Octyl Phthalate	410	U
205-99-2-----	Benzo(b)Fluoranthene	410	U
207-08-9-----	Benzo(k)Fluoranthene	410	U
50-32-8-----	Benzo(a)Pyrene	410	U
193-39-5-----	Indeno(1,2,3-cd)Pyrene	410	U
53-70-3-----	Dibenz(a,h)Anthracene	410	U
191-24-2-----	Benzo(g,h,i)Perylene	410	U

(1) - Cannot be separated from Diphenylamine
FORM I SV-2

3/90

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SB3-7-SD

Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 597

SAS No.:

SDG No.: 23365

Matrix: (soil/water) SOIL

Lab Sample ID: 23366

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: G9838

Level: (low/med) LOW

Date Received: 03/21/95

% Moisture: 20 decanted: (Y/N) N

Date Extracted: 03/23/95

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 03/30/95

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH:

Number TICs found: 8

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 12-34-22	Aldol Condensation Product	4.73	40000	ABJN
2.	UNKNOWN	6.36	1700	BJ
3.	UNKNOWN	7.05	560	BJ
4.	UNKNOWN	8.17	890	BJ
5.	UNKNOWN	9.61	230	J
6.	UNKNOWN	11.53	170	J
7.	UNKNOWN HYDROCARBON	28.95	83	J
8.	UNKNOWN HYDROCARBON	33.07	100	J

FORM I SV-TIC

3/90

F-245

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF SOIL ANALYSIS FOR TENTATIVELY IDENTIFIED
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS

CLIENT : NM-8000 NIAGARA FALLS AFB SOLIDS : 80 %
TEST NAME : SEMI-VOLATILES UNITS : UG/KG
SAMPLE ID LAB : EE-95-23366 MATRIX: SOLID
SAMPLE ID CLIENT: NM8-SB3-7-SD-032295 DATE RECEIVED : 03/21/95
SDG # : 23365 DATE EXTRACTED: 03/23/95
 DATE ANALYZED : 03/30/95
SAMPLE VOLUME: 30 G INJECTION VOLUME: 2.0 UL
FINAL VOLUME : 500 UL DILUTION FACTOR : 1.0

9500.597

Total hydrocarbons
present as mass 57 370

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB3-7-SO

Name: E & E INC. Contract: _____
 Lab Code: EANDE Case No.: 597 SAS No.: _____ SDG No.: 23365
 Matrix: (soil/water) SOIL Lab Sample ID: 23365
 Sample wt/vol: 30.0 (g/mL) G Lab File ID: G9837
 Level: (low/med) LOW Date Received: 03/21/95
 % Moisture: 24 decanted: (Y/N) N Date Extracted: 03/23/95
 Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 03/30/95
 Injection Volume: 2.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) Y pH: _____

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	430	U
111-44-4	bis(2-Chloroethyl) Ether	430	U
95-57-8	2-Chlorophenol	430	U
541-73-1	1,3-Dichlorobenzene	430	U
106-46-7	1,4-Dichlorobenzene	430	U
95-50-1	1,2-Dichlorobenzene	430	U
95-48-7	2-Methylphenol	430	U
108-60-1	2,2'-oxybis(1-Chloropropane)	430	U
106-44-5	4-Methylphenol	430	U
621-64-7	N-Nitroso-Di-n-Propylamine	430	U
67-72-1	Hexachloroethane	430	U
98-95-3	Nitrobenzene	430	U
78-59-1	Isophorone	430	U
88-75-5	2-Nitrophenol	430	U
105-67-9	2,4-Dimethylphenol	430	U
111-91-1	bis(2-Chloroethoxy)Methane	430	U
120-83-2	2,4-Dichlorophenol	430	U
120-82-1	1,2,4-Trichlorobenzene	430	U
91-20-3	Naphthalene	430	U
106-47-8	4-Chloroaniline	430	U
87-68-3	Hexachlorobutadiene	430	U
59-50-7	4-Chloro-3-Methylphenol	430	U
91-57-6	2-Methylnaphthalene	430	U
77-47-4	Hexachlorocyclopentadiene	430	U
88-06-2	2,4,6-Trichlorophenol	430	U
95-95-4	2,4,5-Trichlorophenol	2100	U
91-58-7	2-Chloronaphthalene	430	U
88-74-4	2-Nitroaniline	2100	U
131-11-3	Dimethylphthalate	430	U
208-96-8	Acenaphthylene	430	U
606-20-2	2,6-Dinitrotoluene	430	U
99-09-2	3-Nitroaniline	2100	U
83-32-9	Acenaphthene	430	U

FORM I SV-1

3/90

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB3-7-SO

Lab Name: E & E INC. Contract: _____

Lab Code: EANDE Case No.: 597 SAS No.: _____ SDG No.: 23365

Matrix: (soil/water) SOIL Lab Sample ID: 23365

Sample wt/vol: .30.0 (g/mL) G Lab File ID: G9837

Level: (low/med) LOW Date Received: 03/21/95

% Moisture: 24 decanted: (Y/N) N Date Extracted: 03/23/95

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 03/30/95

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: _____

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

CAS NO.	COMPOUND	CONCENTRATION	UNITS
51-28-5	2,4-Dinitrophenol	2100	U
100-02-7	4-Nitrophenol	2100	U
132-64-9	Dibenzofuran	430	U
121-14-2	2,4-Dinitrotoluene	430	U
84-66-2	Diethylphthalate	430	U
7005-72-3	4-Chlorophenyl-phenylether	430	U
86-73-7	Fluorene	430	U
100-01-6	4-Nitroaniline	2100	U
534-52-1	4,6-Dinitro-2-methylphenol	2100	U
86-30-6	N-Nitrosodiphenylamine (1)	430	U
101-55-3	4-Bromophenyl-phenylether	430	U
118-74-1	Hexachlorobenzene	430	U
87-86-5	Pentachlorophenol	2100	U
85-01-8	Phenanthrene	430	U
120-12-7	Anthracene	430	U
86-74-8	Carbazole	430	U
84-74-2	Di-n-Butylphthalate	430	U
206-44-0	Fluoranthene	430	U
92-87-5	Benzidine	2100	U
55-85-0	Benzoic Acid	2100	U
100-51-6	Benzyl Alcohol	430	U
129-00-0	Pyrene	430	U
85-68-7	Butylbenzylphthalate	430	U
91-94-1	3,3'-Dichlorobenzidine	870	U
56-55-3	Benzo (a) Anthracene	430	U
218-01-9	Chrysene	430	U
117-81-7	bis(2-Ethylhexyl) Phthalate	170	J
117-84-0	Di-n-Octyl Phthalate	430	U
205-99-2	Benzo (b) Fluoranthene	430	U
207-08-9	Benzo (k) Fluoranthene	430	U
50-32-8	Benzo (a) Pyrene	430	U
193-39-5	Indeno (1,2,3-cd) Pyrene	430	U
53-70-3	Dibenz (a,h) Anthracene	430	U
191-24-2	Benzo (g,h,i) Perylene	430	U

(1) - Cannot be separated from Diphenylamine
FORM I SV-2

3/90

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SB3-7-SO

Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 597

SAS No.:

SDG No.: 23365

Matrix: (soil/water) SOIL

Lab Sample ID: 23365

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: G9837

Level: (low/med) LOW

Date Received: 03/21/95

% Moisture: 24 decanted: (Y/N) N

Date Extracted: 03/23/95

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 03/30/95

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH:

Number TICs found: 10

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 12-34-22	Aldol Condensation Product	4.78	41000	ABJN
2.	UNKNOWN	6.39	1700	BJ
3.	UNKNOWN	7.07	570	J
4.	UNKNOWN	8.05	240	J
5.	UNKNOWN	8.21	1300	J
6. 10-54-4500	Molecular Sulfur	26.36	200	JN
7.	UNKNOWN	26.45	110	J
8.	UNKNOWN HYDROCARBON	33.07	130	J
9.	UNKNOWN	34.14	87	J
10.	UNKNOWN	39.65	130	J

FORM I SV-TIC

3/90

F-249

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF SOIL ANALYSIS FOR TENTATIVELY IDENTIFIED
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS

CLIENT	: NM-8000 NIAGARA FALLS AFB	SOLIDS	: 76 %
TEST NAME	: SEMI-VOLATILES	UNITS	: UG/KG
SAMPLE ID LAB	: EE-95-23365	MATRIX	: SOLID
SAMPLE ID CLIENT	: NM8-SB3-7-SO-032295	DATE RECEIVED	: 03/21/95
SDG #	: 23365	DATE EXTRACTED	: 03/23/95
		DATE ANALYZED	: 03/30/95
SAMPLE VOLUME:	30 G	INJECTION VOLUME	: 2.0 UL
FINAL VOLUME :	500 UL	DILUTION FACTOR	: 1.0

9500.597

Total hydrocarbons
present as mass 57 450

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB3-8-SM

Name: E & E INC. Contract: _____
 Lab Code: EANDE Case No.: 597 SAS No.: _____ SDG No.: 23365
 Matrix: (soil/water) SOIL Lab Sample ID: 23367
 Sample wt/vol: 30.0 (g/mL) G Lab File ID: G9839
 Level: (low/med) LOW Date Received: 03/21/95
 % Moisture: 18 decanted: (Y/N) N Date Extracted: 03/23/95
 Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 03/30/95
 Injection Volume: 2.0(uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) Y pH: _____

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	400	U
111-44-4	bis(2-Chloroethyl)Ether	400	U
95-57-8	2-Chlorophenol	400	U
541-73-1	1,3-Dichlorobenzene	400	U
106-46-7	1,4-Dichlorobenzene	400	U
95-50-1	1,2-Dichlorobenzene	400	U
95-48-7	2-Methylphenol	400	U
108-60-1	2,2'-oxybis(1-Chloropropane)	400	U
106-44-5	4-Methylphenol	400	U
621-64-7	N-Nitroso-Di-n-Propylamine	400	U
67-72-1	Hexachloroethane	400	U
98-95-3	Nitrobenzene	400	U
78-59-1	Isophorone	400	U
88-75-5	2-Nitrophenol	400	U
105-67-9	2,4-Dimethylphenol	400	U
111-91-1	bis(2-Chloroethoxy)Methane	400	U
120-83-2	2,4-Dichlorophenol	400	U
120-82-1	1,2,4-Trichlorobenzene	400	U
91-20-3	Naphthalene	400	U
106-47-8	4-Chloroaniline	400	U
87-68-3	Hexachlorobutadiene	400	U
59-50-7	4-Chloro-3-Methylphenol	400	U
91-57-6	2-Methylnaphthalene	400	U
77-47-4	Hexachlorocyclopentadiene	400	U
88-06-2	2,4,6-Trichlorophenol	400	U
95-95-4	2,4,5-Trichlorophenol	2000	U
91-58-7	2-Chloronaphthalene	400	U
88-74-4	2-Nitroaniline	2000	U
131-11-3	Dimethylphthalate	400	U
208-96-8	Acenaphthylene	400	U
606-20-2	2,6-Dinitrotoluene	400	U
99-09-2	3-Nitroaniline	2000	U
83-32-9	Acenaphthene	400	U

FORM I SV-1

3/90

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB3-8-SM

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 597

SAS No.:

SDG No.: 23365

Matrix: (soil/water) SOIL

Lab Sample ID: 23367

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: G9839

Level: (low/med) LOW

Date Received: 03/21/95

% Moisture: 18 decanted: (Y/N) N

Date Extracted: 03/23/95

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 03/30/95

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

Cleanup: (Y/N) Y

pH:

CONCENTRATION UNITS:

CAS NO.

COMPOUND

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

Q

51-28-5-----	2,4-Dinitrophenol	2000	U
100-02-7-----	4-Nitrophenol	2000	U
132-64-9-----	Dibenzofuran	400	U
121-14-2-----	2,4-Dinitrotoluene	400	U
84-66-2-----	Diethylphthalate	400	U
7005-72-3-----	4-Chlorophenyl-phenylether	400	U
86-73-7-----	Fluorene	400	U
100-01-6-----	4-Nitroaniline	2000	U
534-52-1-----	4,6-Dinitro-2-methylphenol	2000	U
86-30-6-----	N-Nitrosodiphenylamine (1)	400	U
101-55-3-----	4-Bromophenyl-phenylether	400	U
118-74-1-----	Hexachlorobenzene	400	U
87-86-5-----	Pentachlorophenol	2000	U
85-01-8-----	Phenanthrene	400	U
120-12-7-----	Anthracene	400	U
86-74-8-----	Carbazole	400	U
84-74-2-----	Di-n-Butylphthalate	400	U
206-44-0-----	Fluoranthene	400	U
92-87-5-----	Benzidine	2000	U
55-85-0-----	Benzoic Acid	2000	U
100-51-6-----	Benzyl Alcohol	400	U
129-00-0-----	Pyrene	400	U
85-68-7-----	Butylbenzylphthalate	400	U
91-94-1-----	3,3'-Dichlorobenzidine	810	U
56-55-3-----	Benzo(a)Anthracene	400	U
218-01-9-----	Chrysene	400	U
117-81-7-----	bis(2-Ethylhexyl)Phthalate	1000	
117-84-0-----	Di-n-Octyl Phthalate	400	U
205-99-2-----	Benzo(b)Fluoranthene	400	U
207-08-9-----	Benzo(k)Fluoranthene	400	U
50-32-8-----	Benzo(a)Pyrene	400	U
193-39-5-----	Indeno(1,2,3-cd)Pyrene	400	U
53-70-3-----	Dibenz(a,h)Anthracene	400	U
191-24-2-----	Benzo(g,h,i)Perylene	400	U

(1) - Cannot be separated from Diphenylamine
FORM I SV-2

3/90

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SB3-8-SM

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 597

SAS No.:

SDG No.: 23365

Matrix: (soil/water) SOIL

Lab Sample ID: 23367

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: G9839

Level: (low/med) LOW

Date Received: 03/21/95

% Moisture: 18 decanted: (Y/N) N

Date Extracted: 03/23/95

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 03/30/95

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH:

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

Number TICs found: 17

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 12-34-22	Aldol Condensation Product	4.73	41000	ABJN
2.	UNKNOWN	6.36	1600	BJ
3.	UNKNOWN	7.06	630	BJ
4.	UNKNOWN	8.22	1600	BJ
5.	UNKNOWN	9.59	160	J
6.	UNKNOWN HYDROCARBON	18.21	100	J
7.	UNKNOWN HYDROCARBON	19.81	140	J
8.	UNKNOWN HYDROCARBON	21.32	340	J
9.	UNKNOWN HYDROCARBON	22.74	220	J
10.	UNKNOWN HYDROCARBON	24.10	220	J
11.	UNKNOWN HYDROCARBON	25.39	180	J
12.	UNKNOWN HYDROCARBON	26.64	160	J
13.	UNKNOWN HYDROCARBON	28.95	160	J
14.	UNKNOWN HYDROCARBON	30.05	120	J
15.	UNKNOWN HYDROCARBON	31.10	140	J
16.	UNKNOWN HYDROCARBON	32.10	120	J
17.	UNKNOWN HYDROCARBON	33.08	160	J

FORM I SV-TIC

3/90

F-253

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF SOIL ANALYSIS FOR TENTATIVELY IDENTIFIED
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS

CLIENT	: NM-8000 NIAGARA FALLS AFB	SOLIDS	: 82 %
TEST NAME	: SEMI-VOLATILES	UNITS	: UG/KG
SAMPLE ID LAB	: EE-95-23367	MATRIX	: SOLID
SAMPLE ID CLIENT	: NM8-SB3-8-SM-032295	DATE RECEIVED	: 03/21/95
SDG #	: 23365	DATE EXTRACTED	: 03/23/95
		DATE ANALYZED	: 03/30/95
SAMPLE VOLUME:	30 G	INJECTION VOLUME	: 2.0 UL
FINAL VOLUME	: 500 UL	DILUTION FACTOR	: 1.0

9500.597

Total hydrocarbons
present as mass 57 870

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB3-9-SO

Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 597

SAS No.:

SDG No.: 23365

Matrix: (soil/water) SOIL

Lab Sample ID: 23368

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: G9840

Level: (low/med) LOW

Date Received: 03/21/95

% Moisture: 12 decanted: (Y/N) N

Date Extracted: 03/23/95

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 03/30/95

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH:

CONCENTRATION UNITS:

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

Q

CAS NO.

COMPOUND

108-95-2	Phenol	370	U
111-44-4	bis(2-Chloroethyl)Ether	370	U
95-57-8	2-Chlorophenol	370	U
541-73-1	1,3-Dichlorobenzene	370	U
106-46-7	1,4-Dichlorobenzene	370	U
95-50-1	1,2-Dichlorobenzene	370	U
95-48-7	2-Methylphenol	370	U
108-60-1	2,2'-oxybis(1-Chloropropane)	370	U
106-44-5	4-Methylphenol	370	U
621-64-7	N-Nitroso-Di-n-Propylamine	370	U
67-72-1	Hexachloroethane	370	U
98-95-3	Nitrobenzene	370	U
78-59-1	Isophorone	370	U
88-75-5	2-Nitrophenol	370	U
105-67-9	2,4-Dimethylphenol	370	U
111-91-1	bis(2-Chloroethoxy)Methane	370	U
120-83-2	2,4-Dichlorophenol	370	U
120-82-1	1,2,4-Trichlorobenzene	370	U
91-20-3	Naphthalene	370	U
106-47-8	4-Chloroaniline	370	U
87-68-3	Hexachlorobutadiene	370	U
59-50-7	4-Chloro-3-Methylphenol	370	U
91-57-6	2-Methylnaphthalene	370	U
77-47-4	Hexachlorocyclopentadiene	370	U
88-06-2	2,4,6-Trichlorophenol	370	U
95-95-4	2,4,5-Trichlorophenol	1800	U
91-58-7	2-Chloronaphthalene	370	U
88-74-4	2-Nitroaniline	1800	U
131-11-3	Dimethylphthalate	370	U
208-96-8	Acenaphthylene	370	U
606-20-2	2,6-Dinitrotoluene	370	U
99-09-2	3-Nitroaniline	1800	U
83-32-9	Acenaphthene	370	U

FORM I SV-1

3/90

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB3-9-SO

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 597

SAS No.:

SDG No.: 23365

Matrix: (soil/water) SOIL

Lab Sample ID: 23368

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: G9840

Level: (low/med) LOW

Date Received: 03/21/95

% Moisture: 12 decanted: (Y/N) N

Date Extracted: 03/23/95

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 03/30/95

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH:

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1800	U
100-02-7	4-Nitrophenol	1800	U
132-64-9	Dibenzofuran	370	U
121-14-2	2,4-Dinitrotoluene	370	U
84-66-2	Diethylphthalate	370	U
7005-72-3	4-Chlorophenyl-phenylether	370	U
86-73-7	Fluorene	370	U
100-01-6	4-Nitroaniline	1800	U
534-52-1	4,6-Dinitro-2-methylphenol	1800	U
86-30-6	N-Nitrosodiphenylamine (1)	370	U
101-55-3	4-Bromophenyl-phenylether	370	U
118-74-1	Hexachlorobenzene	370	U
87-86-5	Pentachlorophenol	1800	U
85-01-8	Phenanthrene	370	U
120-12-7	Anthracene	370	U
86-74-8	Carbazole	370	U
84-74-2	Di-n-Butylphthalate	370	U
206-44-0	Fluoranthene	370	U
92-87-5	Benzidine	1800	U
55-85-0	Benzoic Acid	1800	U
100-51-6	Benzyl Alcohol	370	U
129-00-0	Pyrene	370	U
85-68-7	Butylbenzylphthalate	370	U
91-94-1	3,3'-Dichlorobenzidine	750	U
56-55-3	Benzo(a)Anthracene	370	U
218-01-9	Chrysene	370	U
117-81-7	bis(2-Ethylhexyl)Phthalate	340	J
117-84-0	Di-n-Octyl Phthalate	370	U
205-99-2	Benzo(b)Fluoranthene	370	U
207-08-9	Benzo(k)Fluoranthene	370	U
50-32-8	Benzo(a)Pyrene	370	U
193-39-5	Indeno(1,2,3-cd)Pyrene	370	U
53-70-3	Dibenz(a,h)Anthracene	370	U
191-24-2	Benzo(g,h,i)Perylene	370	U

(1) - Cannot be separated from Diphenylamine
FORM I SV-2

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SB3-9-SO

Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 597

SAS No.:

SDG No.: 23365

Matrix: (soil/water) SOIL

Lab Sample ID: 23368

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: G9840

Level: (low/med) LOW

Date Received: 03/21/95

% Moisture: 12 decanted: (Y/N) N

Date Extracted: 03/23/95

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 03/30/95

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH:

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

Number TICs found: 6

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 12-34-22	Aldol Condensation Product	4.81	41000	ABJN
2.	UNKNOWN	6.38	1800	BJ
3.	UNKNOWN	7.06	700	BJ
4.	UNKNOWN	8.04	170	J
5.	UNKNOWN	8.16	510	BJ
6.	UNKNOWN	11.53	150	J

FORM I SV-TIC

3/90

F-257

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF SOIL ANALYSIS FOR TENTATIVELY IDENTIFIED
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS

CLIENT	: NM-8000 NIAGARA FALLS AFB	SOLIDS	: 88 %
TEST NAME	: SEMI-VOLATILES	UNITS	: UG/KG
SAMPLE ID LAB	: EE-95-23368	MATRIX:	SOLID
SAMPLE ID CLIENT:	NM8-SB3-9-SO-032295	DATE RECEIVED	: 03/21/95
SDG #	: 23365	DATE EXTRACTED:	03/23/95
		DATE ANALYZED	: 03/30/95
SAMPLE VOLUME:	30 G	INJECTION VOLUME:	2.0 UL
FINAL VOLUME :	500 UL	DILUTION FACTOR	: 1.0

9500.597

Total hydrocarbons
present as mass 57 360

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB3-10-SO

Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 597

SAS No.:

SDG No.: 23365

Matrix: (soil/water) SOIL

Lab Sample ID: 23369

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: G9879

Level: (low/med) LOW

Date Received: 03/21/95

% Moisture: 30 decanted: (Y/N) N

Date Extracted: 03/23/95

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 04/03/95

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH:

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

CAS NO.

COMPOUND

Q

108-95-2	Phenol	470	U
111-44-4	bis(2-Chloroethyl)Ether	470	U
95-57-8	2-Chlorophenol	470	U
541-73-1	1,3-Dichlorobenzene	470	U
106-46-7	1,4-Dichlorobenzene	470	U
95-50-1	1,2-Dichlorobenzene	470	U
95-48-7	2-Methylphenol	470	U
108-60-1	2,2'-oxybis(1-Chloropropane)	470	U
106-44-5	4-Methylphenol	470	U
621-64-7	N-Nitroso-Di-n-Propylamine	470	U
67-72-1	Hexachloroethane	470	U
98-95-3	Nitrobenzene	470	U
78-59-1	Isophorone	470	U
88-75-5	2-Nitrophenol	470	U
105-67-9	2,4-Dimethylphenol	470	U
111-91-1	bis(2-Chloroethoxy)Methane	470	U
120-83-2	2,4-Dichlorophenol	470	U
120-82-1	1,2,4-Trichlorobenzene	470	U
91-20-3	Naphthalene	470	U
106-47-8	4-Chloroaniline	470	U
87-68-3	Hexachlorobutadiene	470	U
59-50-7	4-Chloro-3-Methylphenol	470	U
91-57-6	2-Methylnaphthalene	51	J
77-47-4	Hexachlorocyclopentadiene	470	U
88-06-2	2,4,6-Trichlorophenol	470	U
95-95-4	2,4,5-Trichlorophenol	2300	U
91-58-7	2-Chloronaphthalene	470	U
88-74-4	2-Nitroaniline	2300	U
131-11-3	Dimethylphthalate	470	U
208-96-8	Acenaphthylene	470	U
606-20-2	2,6-Dinitrotoluene	470	U
99-09-2	3-Nitroaniline	2300	U
83-32-9	Acenaphthene	48	J

FORM I SV-1

3/90

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB3-10-SO

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 597

SAS No.:

SDG No.: 23365

Matrix: (soil/water) SOIL

Lab Sample ID: 23369

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: G9879

Level: (low/med) LOW

Date Received: 03/21/95

% Moisture: 30 decanted: (Y/N) N

Date Extracted: 03/23/95

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 04/03/95

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH:

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

Q

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	2300	U
100-02-7	4-Nitrophenol	2300	U
132-64-9	Dibenzofuran	470	U
121-14-2	2,4-Dinitrotoluene	470	U
84-66-2	Diethylphthalate	760	
7005-72-3	4-Chlorophenyl-phenylether	470	U
86-73-7	Fluorene	63	J
100-01-6	4-Nitroaniline	2300	U
534-52-1	4,6-Dinitro-2-methylphenol	2300	U
86-30-6	N-Nitrosodiphenylamine (1)	470	U
101-55-3	4-Bromophenyl-phenylether	470	U
118-74-1	Hexachlorobenzene	470	U
87-86-5	Pentachlorophenol	2300	U
85-01-8	Phenanthrene	330	J
120-12-7	Anthracene	56	J
86-74-8	Carbazole	59	J
84-74-2	Di-n-Butylphthalate	60	J
206-44-0	Fluoranthene	380	J
92-87-5	Benzidine	2300	U
55-85-0	Benzoic Acid	2300	U
100-51-6	Benzyl Alcohol	470	U
129-00-0	Pyrene	360	J
85-68-7	Butylbenzylphthalate	470	U
91-94-1	3,3'-Dichlorobenzidine	940	U
56-55-3	Benzo(a)Anthracene	180	J
218-01-9	Chrysene	160	J
117-81-7	bis(2-Ethylhexyl) Phthalate	480	
117-84-0	Di-n-Octyl Phthalate	470	U
205-99-2	Benzo(b) Fluoranthene	230	J
207-08-9	Benzo(k) Fluoranthene	66	J
50-32-8	Benzo(a) Pyrene	120	J
193-39-5	Indeno(1,2,3-cd) Pyrene	140	J
53-70-3	Dibenz(a,h) Anthracene	64	J
191-24-2	Benzo(g,h,i) Perylene	130	J

(1) - Cannot be separated from Diphenylamine
FORM I SV-2

3/90

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SB3-10-SO

Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 597

SAS No.:

SDG No.: 23365

Matrix: (soil/water) SOIL

Lab Sample ID: 23369

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: G9879

Level: (low/med) LOW

Date Received: 03/21/95

% Moisture: 30 decanted: (Y/N) N

Date Extracted: 03/23/95

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 04/03/95

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH:

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

Number TICs found: 21

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 12-34-22	Aldol Condensation Product	4.67	47000	ABJN
2.	UNKNOWN	6.27	1700	BJ
3.	UNKNOWN	6.56	240	BJ
4.	UNKNOWN	6.96	430	BJ
5.	UNKNOWN	8.13	1800	BJ
6.	UNKNOWN	9.59	1200	J
7.	UNKNOWN HYDROCARBON	16.48	1200	J
8.	UNKNOWN	17.33	470	J
9.	UNKNOWN HYDROCARBON	17.49	830	J
10.	UNKNOWN HYDROCARBON	18.17	1900	J
11.	UNKNOWN HYDROCARBON	18.98	660	J
12.	UNKNOWN HYDROCARBON	19.18	470	J
13.	UNKNOWN HYDROCARBON	21.26	5200	J
14.	UNKNOWN HYDROCARBON	21.85	400	J
15.	UNKNOWN HYDROCARBON	22.15	640	J
16.	UNKNOWN HYDROCARBON	24.04	1600	J
17.	UNKNOWN CARBOXYLIC ACID	24.83	500	BJ
18.	UNKNOWN CARBOXYLIC ACID	25.33	1000	J
19.	UNKNOWN HYDROCARBON	26.56	660	J
20.	UNKNOWN HYDROCARBON	36.70	380	J
21.	UNKNOWN HYDROCARBON	39.49	330	J

FORM I SV-TIC

3/90

F-261

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF SOIL ANALYSIS FOR TENTATIVELY IDENTIFIED
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS

CLIENT : NM-8000 NIAGARA FALLS AFB
TEST NAME : SEMI-VOLATILES
SAMPLE ID LAB : EE-95-23369
SAMPLE ID CLIENT: NM8-SB3-10-SO-032295
SDG # : 23365

SOLIDS : 70 %
UNITS : UG/KG
MATRIX: SOLID
DATE RECEIVED : 03/21/95
DATE EXTRACTED: 03/22/95
DATE ANALYZED : 04/03/95
INJECTION VOLUME: 2.0 UL
DILUTION FACTOR : 1.0

SAMPLE VOLUME: 30 G
FINAL VOLUME : 500 UL

9500.597

Total hydrocarbons
present as mass 57 3300

TEST CODE : WPCB 1

JOB NUMBER : 9500.633

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NM-9000 RFI SITE 3 - NFAFB AFRES

TEST NAME : PCB

UNITS : UG/L

SAMPLE ID LAB : EE-95-23633

MATRIX: WATER

SAMPLE ID CLIENT: NM9-MW3-6D-WO-032395

DATE RECEIVED : 03/23/95

SDG # : 23365

DATE EXTRACTED: 03/29/95

DATE ANALYZED : 04/06/95

SAMPLE VOLUME: 1000 mL

INJECTION VOLUME: 4.0 uL

FINAL VOLUME : 1.0 mL

DILUTION FACTOR : 1.0

PARAMETER	RESULTS	Q	QNT. LIMIT
PCB-1242	ND		0.50
PCB-1254	ND		0.50
PCB-1221	ND		0.50
PCB-1232	ND		0.50
PCB-1248	ND		0.50
PCB-1260	ND		0.50
PCB-1016	ND		0.50

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

B = ALSO PRESENT IN BLANK

N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE

TEST CODE :WPCB 1

JOB NUMBER :9500.647

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NM-9000 RFI SITE 3 - NFAFB AFRES
TEST NAME : PCB UNITS : UG/L
SAMPLE ID LAB : EE-95-23728 MATRIX: WATER
SAMPLE ID CLIENT: NM9-MW3-1E-WO-032495 DATE RECEIVED : 03/23/95
SDG # : 23365 DATE EXTRACTED: 03/29/95
DATE ANALYZED : 04/06/95

SAMPLE VOLUME: 1000 mL

INJECTION VOLUME: 4.0 uL

FINAL VOLUME : 1.0 mL

DILUTION FACTOR : 1.0

PARAMETER	RESULTS	Q	QNT. LIMIT
PCB-1242	ND		0.50
PCB-1254	ND		0.50
PCB-1221	ND		0.50
PCB-1232	ND		0.50
PCB-1248	ND		0.50
PCB-1260	ND		0.50
PCB-1016	ND		0.50

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

B = ALSO PRESENT IN BLANK

N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE

METALS SECTION

JOB NUMBER : 9500.597

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NM-9000 RFI SITE 3 - NFAFB AFRES

RESULTS IN DRY WEIGHT

%SOLIDS : 76 %

SAMPLE ID LAB : EE-95-23365

MATRIX: SOLID

SAMPLE ID CLIENT: NM9-SB3-7-SO-032195

DATE RECEIVED : 03/21/95

SDG # : 23365

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Arsenic	7.9		0.66	MG/KG
Lead	42		0.66	MG/KG
Antimony	ND		7.9	MG/KG
Beryllium	0.89		0.66	MG/KG
Cadmium	5.8		0.66	MG/KG
Chromium Total	27		1.3	MG/KG
Copper	25		2.6	MG/KG
Nickel	27		2.6	MG/KG
Silver	ND		1.3	MG/KG
Zinc	130		1.3	MG/KG
Selenium	3.5		0.66	MG/KG
Thallium	ND		0.66	MG/KG
Mercury	ND		0.13	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER : 9500.597

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NM-9000 RFI SITE 3 - NFAFB AFRES

RESULTS IN DRY WEIGHT

%SOLIDS : 80 %

SAMPLE ID LAB : EE-95-23366

MATRIX: SOLID

SAMPLE ID CLIENT: NM9-SB3-7-SD-032195

DATE RECEIVED : 03/21/95

SDG # : 23365

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Arsenic	8.4		0.62	MG/KG
Lead	21		0.62	MG/KG
Antimony	ND		7.5	MG/KG
Beryllium	0.74		0.62	MG/KG
Cadmium	5.4		0.62	MG/KG
Chromium Total	21		1.2	MG/KG
Copper	26		2.5	MG/KG
Nickel	29		2.5	MG/KG
Silver	ND		1.2	MG/KG
Zinc	120		1.2	MG/KG
Selenium	1.4		0.62	MG/KG
Thallium	ND		0.62	MG/KG
Mercury	ND		0.12	MG/KG

 QUALIFIERS: C = COMMENT
 J = ESTIMATED VALUE

ND = NOT DETECTED

METALS SECTION

JOB NUMBER : 9500.597

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NM-9000 RFI SITE 3 - NFAFB AFRES
RESULTS IN DRY WEIGHT %SOLIDS : 82 %
SAMPLE ID LAB : EE-95-23367 MATRIX: SOLID
SAMPLE ID CLIENT: NM9-SB3-8-SM-032195 DATE RECEIVED : 03/21/95
SDG # : 23365

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Arsenic	2.8		0.61	MG/KG
Lead	9.8		0.61	MG/KG
Antimony	ND		7.3	MG/KG
Beryllium	ND		0.61	MG/KG
Cadmium	4.0		0.61	MG/KG
Chromium Total	18		1.2	MG/KG
Copper	18		2.4	MG/KG
Nickel	19		2.4	MG/KG
Silver	ND		1.2	MG/KG
Zinc	230		1.2	MG/KG
Selenium	2.8		0.61	MG/KG
Thallium	ND		0.61	MG/KG
Mercury	ND		0.12	MG/KG

QUALIFIERS: C = COMMENT
J = ESTIMATED VALUE

ND = NOT DETECTED

METALS SECTION

JOB NUMBER : 9500.597

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NM-9000 RFI SITE 3 - NFAFB AFRES

RESULTS IN DRY WEIGHT

%SOLIDS : 88 %

SAMPLE ID LAB : EE-95-23368

MATRIX: SOLID

SAMPLE ID CLIENT: NM9-SB3-9-SO-032195

DATE RECEIVED : 03/21/95

SDG # : 23365

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Arsenic	3.7		0.57	MG/KG
Lead	4.1		0.57	MG/KG
Antimony	ND		6.8	MG/KG
Beryllium	ND		0.57	MG/KG
Cadmium	2.4		0.57	MG/KG
Chromium Total	10		1.1	MG/KG
Copper	13		2.3	MG/KG
Nickel	17		2.3	MG/KG
Silver	ND		1.1	MG/KG
Zinc	84		1.1	MG/KG
Selenium	ND		0.57	MG/KG
Thallium	ND		0.57	MG/KG
Mercury	ND		0.11	MG/KG

QUALIFIERS: C = COMMENT
J = ESTIMATED VALUE

ND = NOT DETECTED

METALS SECTION

JOB NUMBER : 9500.597

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NM-9000 RFI SITE 3 - NFAFB AFRES
RESULTS IN DRY WEIGHT %SOLIDS : 70 %
SAMPLE ID LAB : EE-95-23369 MATRIX: SOLID
SAMPLE ID CLIENT: NM9-SB3-10-SO-032195 DATE RECEIVED : 03/21/95
SDG # : 23365

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Arsenic	6.0		0.71	MG/KG
Lead	68		0.71	MG/KG
Antimony	ND		8.6	MG/KG
Beryllium	ND		0.71	MG/KG
Cadmium	3.6		0.71	MG/KG
Chromium Total	19		1.4	MG/KG
Copper	20		2.8	MG/KG
Nickel	14		2.8	MG/KG
Silver	ND		1.4	MG/KG
Zinc	410		1.4	MG/KG
Selenium	2.1		0.71	MG/KG
Thallium	ND		0.71	MG/KG
Mercury	0.30		0.14	MG/KG

QUALIFIERS: C = COMMENT
J = ESTIMATED VALUE

ND = NOT DETECTED

METALS SECTION

JOB NUMBER : 9500.614

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NM-9000 RFI SITE 3 - NFAFB AFRES
 RESULTS IN DRY WEIGHT %SOLIDS : 77 %
 SAMPLE ID LAB : EE-95-23488 MATRIX: SOLID
 SAMPLE ID CLIENT: NM9-SB3-3-SO-032095 DATE RECEIVED : 03/20/95
 SDG # : 23365

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Arsenic	3.9		0.65	MG/KG
Lead	26		0.65	MG/KG
Antimony	ND		7.8	MG/KG
Beryllium	0.79		0.65	MG/KG
Cadmium	3.8		0.65	MG/KG
Chromium Total	19		1.3	MG/KG
Copper	18		2.6	MG/KG
Nickel	18		2.6	MG/KG
Silver	ND		1.3	MG/KG
Zinc	180		1.3	MG/KG
Selenium	2.2		0.65	MG/KG
Thallium	ND		0.65	MG/KG
Mercury	0.21		0.13	MG/KG

 QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9500.614

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NM-9000 RFI SITE 3 - NFAFB AFRES

RESULTS IN DRY WEIGHT

%SOLIDS : 88 %

SAMPLE ID LAB : EE-95-23489

MATRIX: SOLID

SAMPLE ID CLIENT: NM9-SB3-4-SO-032095

DATE RECEIVED : 03/20/95

SDG # : 23365

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Arsenic	2.1		0.57	MG/KG
Lead	11		0.57	MG/KG
Antimony	ND		6.8	MG/KG
Beryllium	ND		0.57	MG/KG
Cadmium	2.3		0.57	MG/KG
Chromium Total	8.1		1.1	MG/KG
Copper	13		2.3	MG/KG
Nickel	8.1		2.3	MG/KG
Silver	ND		1.1	MG/KG
Zinc	230		1.1	MG/KG
Selenium	ND		0.57	MG/KG
Thallium	ND		0.57	MG/KG
Mercury	ND		0.11	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9500.614

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NM-9000 RFI SITE 3 - NFAFB AFRES

RESULTS IN DRY WEIGHT

%SOLIDS : 93 %

SAMPLE ID LAB : EE-95-23490

MATRIX: SOLID

SAMPLE ID CLIENT: NM9-SB3-5-SO-032095

DATE RECEIVED : 03/20/95

SDG # : 23365

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Arsenic	1.3		0.54	MG/KG
Lead	8.8		0.54	MG/KG
Antimony	ND		6.4	MG/KG
Beryllium	ND		0.54	MG/KG
Cadmium	ND		0.54	MG/KG
Chromium Total	4.6		1.1	MG/KG
Copper	8.4		2.2	MG/KG
Nickel	5.8		2.2	MG/KG
Silver	ND		1.1	MG/KG
Zinc	119		1.1	MG/KG
Selenium	0.59		0.54	MG/KG
Thallium	ND		0.54	MG/KG
Mercury	ND		0.11	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9500.614

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NM-9000 RFI SITE 3 - NFAFB AFRES

RESULTS IN DRY WEIGHT

%SOLIDS : 87 %

SAMPLE ID LAB : EE-95-23491

MATRIX: SOLID

SAMPLE ID CLIENT: NM9-SB3-6-SO-032095

DATE RECEIVED : 03/20/95

SDG # : 23365

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Arsenic	7.1		0.57	MG/KG
Lead	40		0.57	MG/KG
Antimony	ND		6.9	MG/KG
Beryllium	ND		0.57	MG/KG
Cadmium	3.7		0.57	MG/KG
Chromium Total	19		1.1	MG/KG
Copper	19		2.3	MG/KG
Nickel	14		2.3	MG/KG
Silver	ND		1.1	MG/KG
Zinc	160		1.1	MG/KG
Selenium	1.4		0.57	MG/KG
Thallium	ND		0.57	MG/KG
Mercury	0.22		0.11	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

JOB NUMBER :9500.647

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NM-9000 RFI SITE 3 - NFAFB AFRES
SAMPLE ID LAB :EE-95-23728 MATRIX: WATER
SAMPLE ID CLIENT: NM9-MW3-1E-WO-032495 DATE RECEIVED: 03/24/95
SDG # : 23728

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Arsenic	ND		5.0	UG/L
Lead	10		5.0	UG/L
Antimony	ND		60	UG/L
Beryllium	ND		5.0	UG/L
Cadmium	ND		5.0	UG/L
Chromium Total	ND		10	UG/L
Copper	ND		20	UG/L
Nickel	ND		20	UG/L
Silver	ND		10	UG/L
Zinc	15		10	UG/L
Selenium	ND		10	UG/L
Thallium	ND		5.0	UG/L
Mercury	ND		0.20	UG/L

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

JOB NUMBER :9500.647

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NM-9000 RFI SITE 3 - NFAFB AFRES
SAMPLE ID LAB : EE-95-23729 MATRIX: WATER
SAMPLE ID CLIENT: NM9-MW3-6D-WO-032395 DATE RECEIVED: 03/24/95
SDG # : 23728

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Arsenic	ND		5.0	UG/L
Lead	16		5.0	UG/L
Antimony	ND		60	UG/L
Beryllium	ND		5.0	UG/L
Cadmium	ND		5.0	UG/L
Chromium Total	ND		10	UG/L
Copper	ND		20	UG/L
Nickel	ND		20	UG/L
Silver	ND		10	UG/L
Zinc	90		10	UG/L
Selenium	ND		5.0	UG/L
Thallium	ND		5.0	UG/L
Mercury	ND		0.20	UG/L

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

TEST CODE :WPETHY1

JOB NUMBER :9500.597

ELAP ID : 10486

Ecology and Environment, Inc.

CLIENT: NM-9000 RFI SITE 3 - NFAFB AFRES

SDG # : 23365

TEST NAME: TRPH

UNITS : MG/L

PARAMETER: Petroleum Hydrocarbons

MATRIX: WATER

DATE RECEIVED: 03/21/95

```
-----  
-----  
SAMPLE ID          RESULTS      Q  QNT. LIMIT  
-----  
EE-95-23370  
NM9-SB3-10-WR-032195  ND          1.0  
-----  
METHOD BLANK (04/07)  ND          1.0  
-----
```

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-----  
QUALIFIERS: C = COMMENT      ND = NOT DETECTED  
             J = ESTIMATED VALUE  
             NA = NOT APPLICABLE
```

TEST CODE : SPETHY1

JOB NUMBER : 9500.597

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NM-9000 RFI SITE 3 - NFAFB AFRES

TEST NAME : TRPH	RESULTS IN DRY WEIGHT
PARAMETER : Petroleum Hydrocarbons	UNITS : MG/KG
SDG # : 23365	MATRIX: SOLID
	DATE RECEIVED: 03/21/95

SAMPLE ID	RESULTS	Q	QNT. LIMIT
EE-95-23365			
NM9-SB3-7-SO-032195	ND		26
EE-95-23366			
NM9-SB3-7-SD-032195	ND		25
EE-95-23367			
NM9-SB3-8-SM-032195	ND		24
EE-95-23368			
NM9-SB3-9-SO-032195	ND		23
EE-95-23369			
NM9-SB3-10-SO-032195	1200		28

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE
 NA = NOT APPLICABLE

TEST CODE :SPETHY1

JOB NUMBER :9500.614

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NM-9000 RFI SITE 3 - NFAFB AFRES

RESULTS IN DRY WEIGHT

TEST NAME : TRPH

UNITS : MG/KG

PARAMETER : Petroleum Hydrocarbons

MATRIX: SOLID

SDG # : 23365

DATE RECEIVED: 03/20/95

SAMPLE ID	RESULTS	Q	QNT. LIMIT
EE-95-23488			
NM9-SB3-3-SO-032095	37		26
EE-95-23489			
NM9-SB3-4-SO-032095	ND		23
EE-95-23490			
NM9-SB3-5-SO-032095	29		22
EE-95-23491			
NM9-SB3-6-SO-032095	59		23

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

NA = NOT APPLICABLE

Case Narrative
OI-2000 Niagara Falls AFB
9500.609; 9500.648

All aqueous volatile samples were determined to be at a pH of 6 s.u.

As requested, the extracted ion profile for m/z 57 over the entire mass chromatogram was obtained for each sample analyzed for volatile and semi-volatile compounds. A value representing the total hydrocarbons present as m/z 57 is reported for each sample. This value was obtained using the internal standard method. The total area of the m/z 57 peaks was compared to the total ion response of the first eluting internal standard assuming a response factor of 1. Since the m/z 57 is present in the internal standards added to all samples, a positive value will always be obtained.

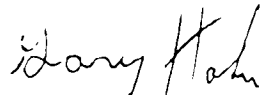
Due to the cis-1,2-dichloroethene present, sample MW13-4D-WO required reanalysis at a secondary dilution. Results from both analyses are included in this report.

Recovery of 4-nitrophenol and pentachlorophenol were low in the matrix spike/spike duplicate analysis. A matrix interference is suspected. All other recoveries were within acceptable limits.

Recovery of the PCB laboratory control sample extracted on 3/23 was low at 51%. All associated sample surrogate recoveries were within acceptable limits. No further action was taken.

Zinc was detected in the preparation blank 724 associated with sample received on 3/22 at a concentration of 12 ug/L. This value is below the NYSDEC ASP CRDL of 20 ug/L. No corrective action was required. Any zinc values below 120 ug/L should be viewed with caution.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.



Gary Hahn - Manager
Analytical Services Center
April 28, 1995



ecology and environment, inc.

368 PLEASANTVIEW DRIVE, LANCASTER, NEW YORK 14066, TEL. 716/684-8060
International Specialists in the Environment

CHAIN-OF-CUSTODY RECORD

Project No.: OI2032		Project Name: NIAGARA FALLS IAP-AAS GW SITE 10 CMS			Project Manager: M. SCHMITT		<div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);"> BULK VOCs B270 BVA E200 PAB POLY-REL. METALS </div> <div style="text-align: center;"> REMARKS METALS PRES. w/ HNO₃ BOTTLE LOT #'S IN LOG </div> </div>																	
Samplers: (Signatures) <i>R. Watt, P. Ball, K. G. [Signature]</i>					Field Team Leader: R. WATT																			
STATION NUMBER	DATE	TIME	SAMPLE TYPE			SAMPLE INFORMATION EXPECTED COMPOUNDS (Concentration)*	STATION LOCATION	NUMBER OF CONTAINERS																
			COMP	GRAB	AIR																			
W	3-22				X		OI2-MW10-1E-WO-032295																	
MW10-2D	3-22	1320		X		LOW	OI2-MW10-2D-WO-032295	6	X	X	X	X												
MW10-2D		1320		X			OI2-MW10-2D-WO-032295	6	X	X	X	X												DURICATE
MW10-2E		0930		X			OI2-MW10-2E-WO-032295	6	X	X	X	X												
MW10-3E		1535		X			OI2-MW10-3E-WO-032295	6	X	X	X	X												
								TEMP BLANKS: 1) 2.0 4µm 2) 2.0 receipt 3) 3.0 ll 4) 1.5 2/2/95																
Relinquished By: (Signature) <i>[Signature]</i>		Date/Time: 3-22-95/1815		Received By: (Signature)		Relinquished By: (Signature)		Date/Time:		Received By: (Signature)		Ship Via: E&E		BL/Airbill Number: NA		Date: 3-22-95								
Relinquished By: (Signature)		Date/Time:		Received By: (Signature)		Relinquished By: (Signature)		Date/Time:		Received By: (Signature)														
Relinquished By: (Signature)		Date/Time:		Received For Laboratory By: (Signature) <i>[Signature]</i>		Relinquished By: (Signature)		Date/Time:		Received For Laboratory By: (Signature)														

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

*See CONCENTRATION RANGE on back of form.

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ecology and environment, inc.

368 PLEASANTVIEW DRIVE, LANCASTER, NEW YORK 14086, TEL. 716/684-8060
International Specialists in the Environment

CHAIN-OF-CUSTODY RECORD

Project No.: 012042		Project Name: NIAGARA FALLS IAP-ARS GW STUDY			Project Manager: J. BASTEDO		REMARKS													
Suppliers (Signatures): <i>[Signatures]</i>		Field Team Leader: G. FLORENTINO																		
STATION NUMBER	DATE	TIME	SAMPLE TYPE			STATION LOCATION	NUMBER OF CONTAINERS	Meth 8240 VOCs Meth 8270 BNA Meth 5080 PCBs Prior Poll Metals												
			COMP	GRAB	AIR															
	1995					EXPECTED COMPOUNDS (Concentration)*														
MW13-1D	3-24	1153	X			LOW	012-MW13-1D-WO-032495	6	X	X	X	X								
MW13-1E		1052	X				012-MW13-1E-WO-032495	6	X	X	X	X								
MW13-2D		1200	X				012-MW13-2D-WO-032495	6	X	X	X	X								
MW13-3D		1215	X				012-MW13-3D-WO-032495	6	X	X	X	X								
MW13-4D		1235	X				012-MW13-4D-WO-032495	6	X	X	X	X								
MW13-1E		1052	X				012-MW13-1E-WM-032495	6	X	X	X	X								MS
MW13-1E		1052	X				012-MW13-1E-WM-032495	6	X	X	X	X								MSD
MW13-2D		1200	X				012-MW13-2D-WD-032495	6	X	X	X	X								duplicate
MW13-2D		1526	X				012-MW13-2D-WR-032495	6	X	X	X	X								rinstate blank
MW13-2D		1600	X				012-MW13-2D-WT-032495	3	X											trip blank
<i>[Signature]</i> 3/24/95																				
Relinquished By: (Signature)		Date/Time:		Received By: (Signature)		Relinquished By: (Signature)		Date/Time:		Received By: (Signature)		Ship Via		EPE HAND DELIVERY						
Relinquished By: (Signature)		Date/Time:		Received By: (Signature)		Relinquished By: (Signature)		Date/Time:		Received By: (Signature)		BL/Airbill Number:		Date: 03-24-95						
Relinquished By: (Signature)		Date/Time: 1740		Received For Laboratory By: (Signature)		Relinquished By: (Signature)		Date/Time:		Received For Laboratory By: (Signature)										

Distribution: Original Accompanies Shipment; Copy to Coordinator Field File
See CONCENTRATION RANGE on back of form.

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ecology and environment, inc.

368 PLEASANTVIEW DRIVE, LANCASTER, NEW YORK 14086, TEL. 716/684-8080
International Specialists in the Environment

CHAIN-OF-CUSTODY RECORD

Project No.: OI2032			Project Name: NIAGARA FALLS IAP-ARS GW STUDY			Project Manager: J. BASTEDO			<div style="border: 1px solid black; padding: 5px; transform: rotate(-45deg); display: inline-block;"> Meth 8240 VOCs Meth 8270 BNA Meth 8080 PCBs Prior. Poll. Metals </div>		
Samplers: (Signatures) <i>[Signatures]</i>			Field Team Leader: G. FLORENTINO			REMARKS METALS PRESERVED W/HNO₃ BOTTLE LOT #3 IN LOG.					
STATION NUMBER	DATE	TIME	SAMPLE TYPE			STATION LOCATION	NUMBER OF CONTAINERS				
			COMP	GRAB	AIR						
			SAMPLE INFORMATION								
			EXPECTED COMPOUNDS (Concentration)*								
MWD-1E	3/24	1532	X			012-MWD-1E-WO-032495	6	X	X	X	X
<i>[Large diagonal line across the table]</i>											
Relinquished By: (Signature)			Date/Time:			Received By: (Signature)			Date/Time:		
Relinquished By: (Signature)			Date/Time:			Received By: (Signature)			Date/Time:		
Relinquished By: (Signature)			Date/Time: 1740			Received For Laboratory By: (Signature)			Date/Time:		
Relinquished By: (Signature)			Date/Time:			Relinquished By: (Signature)			Date/Time:		
Relinquished By: (Signature)			Date/Time:			Received For Laboratory By: (Signature)			Date/Time:		
Ship Via: EOE HAND DELIVERY								BL/Airbill Number: —		Date: 03-24-95	

Bastedo 3/24/95

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Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files
* See CONCENTRATION RANGE on back of form.

To be included with all lab data and with each workplan

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

**SAMPLE IDENTIFICATION AND
ANALYTICAL REQUIREMENT SUMMARY**

Customer Sample Code	Laboratory Sample Code	Analytical Requirements					
		*VOA GC/MS Method #	*BNA GC/MS Method #	*VOA GC Method #	*Pest PCBs Method #	*Metals	*Other
MW10-2D-WD	23440	8240	8270		8080	AROMATIC POLYAROMATICS	
MW10-2D-WD	23441						
MW10-2E-WD	23442						
MW10-3E-WD	23443						
MW10-1E-WD	23730						
MW13-1D-WD	23731						
MW13-1E-WD	23732						
MW13-2D-WD	23733						
MW13-2D-WD	23734						
MW13-2D-WR	23735						
MW13-3D-WD	23736						
MW13-4D-WD	23737						
MW13-2D-WT	23738						

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW13-2D-WR

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 609

SAS No.:

SDG No.: 23440

Matrix: (soil/water) WATER

Lab Sample ID: 23735

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: F1071

Level: (low/med) LOW

Date Received: 03/24/95

% Moisture: not dec.

Date Analyzed: 03/30/95

GC Column: VOCOL ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

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

Q

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW13-2D-WR

Name: E & E INC.

Contract:

Lab Code: EANDE Case No.: 609

SAS No.:

SDG No.: 23440

Matrix: (soil/water) WATER

Lab Sample ID: 23735

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: F1071

Level: (low/med) LOW

Date Received: 03/24/95

% Moisture: not dec.

Date Analyzed: 03/30/95

GC Column: VOCOL ID: 0.530 (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

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF WATER ANALYSIS FOR TENTATIVELY IDENTIFIED
VOLATILE ORGANIC COMPOUNDS BY GC/MS

CLIENT	: OI-2000 NIAGARA FALLS AFB	UNITS	: UG/L
TEST NAME	: PURGEABLES	MATRIX	: WATER
SAMPLE ID LAB	: EE-95-23735	DATE RECEIVED	: 03/24/95
SAMPLE ID CLIENT	: OI2-MW13-2D-WR-032495	DATE EXTRACTED	: NA
SDG #	: 23440	DATE ANALYZED	: 03/30/95
SAMPLE VOLUME	: 5.0 ML	INJECTION VOLUME	: NA
FINAL VOLUME	: NA	DILUTION FACTOR	: 1.0

.9500.648

Total Hydrocarbons Present as m/z 57 - 4

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW13-2D-WT

Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 609

SAS No.:

SDG No.: 23440

Matrix: (soil/water) WATER

Lab Sample ID: 23738

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: F1074

Level: (low/med) LOW

Date Received: 03/24/95

% Moisture: not dec.

Date Analyzed: 03/30/95

GC Column: VOCOL ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	-----Chloromethane	10	U
74-83-9	-----Bromomethane	10	U
75-01-4	-----Vinyl Chloride	10	U
75-00-3	-----Chloroethane	10	U
75-09-2	-----Methylene Chloride	5	U
67-64-1	-----Acetone	10	U
75-15-0	-----Carbon Disulfide	5	U
75-35-4	-----1,1-Dichloroethene	5	U
75-34-3	-----1,1-Dichloroethane	5	U
156-59-2	-----cis-1,2-Dichloroethene	5	U
156-60-5	-----trans-1,2-Dichloroethene	5	U
67-66-3	-----Chloroform	5	U
107-06-2	-----1,2-Dichloroethane	5	U
78-93-3	-----2-Butanone	10	U
71-55-6	-----1,1,1-Trichloroethane	5	U
56-23-5	-----Carbon Tetrachloride	5	U
75-27-4	-----Bromodichloromethane	5	U
78-87-5	-----1,2-Dichloropropane	5	U
10061-01-5	-----cis-1,3-Dichloropropene	5	U
79-01-6	-----Trichloroethene	5	U
124-48-1	-----Dibromochloromethane	5	U
79-00-5	-----1,1,2-Trichloroethane	5	U
71-43-2	-----Benzene	5	U
10061-02-6	-----trans-1,3-Dichloropropene	5	U
75-25-2	-----Bromoform	5	U
108-10-1	-----4-Methyl-2-Pentanone	10	U
591-78-6	-----2-Hexanone	10	U
127-18-4	-----Tetrachloroethene	5	U
79-34-5	-----1,1,2,2-Tetrachloroethane	5	U
108-88-3	-----Toluene	5	U
108-90-7	-----Chlorobenzene	5	U
100-41-4	-----Ethylbenzene	5	U
100-42-5	-----Styrene	5	U
1330-20-7	-----Xylene (total)	5	U

FORM I VOA

3/90

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1E
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW13-2D-WT

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 609

SAS No.:

SDG No.: 23440

Matrix: (soil/water) WATER

Lab Sample ID: 23738

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: F1074

Level: (low/med) LOW

Date Received: 03/24/95

% Moisture: not dec.

Date Analyzed: 03/30/95

GC Column: VOCOL ID: 0.530 (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

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF WATER ANALYSIS FOR TENTATIVELY IDENTIFIED
VOLATILE ORGANIC COMPOUNDS BY GC/MS

CLIENT : OI-2000 NIAGARA FALLS AFB
TEST NAME : PURGEABLES
SAMPLE ID LAB : EE-95-23738
SAMPLE ID CLIENT: OI2-MW13-2D-WT-032495
SDG # : 23440
UNITS : UG/L
MATRIX: WATER
DATE RECEIVED : 03/24/95
DATE EXTRACTED: NA
DATE ANALYZED : 03/30/95
INJECTION VOLUME: NA
DILUTION FACTOR : 1.0

9500.648

Total Hydrocarbons Present as m/z 57 - 4

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW13-2D-WR

Client Name: E & E INC. Contract:
 Lab Code: EANDE Case No.: 609 SAS No.: SDG No.: 23440
 Matrix: (soil/water) WATER Lab Sample ID: 23735
 Sample wt/vol: 1000 (g/mL) ML Lab File ID: E1856
 Level: (low/med) LOW Date Received: 03/24/95
 % Moisture: decanted: (Y/N) Date Extracted: 03/29/95
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/07/95
 Injection Volume: 2.0 (uL) Dilution Factor: 1.0
 Cleanup: (Y/N) N pH:

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

Q

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis (2-Chloroethyl) Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis (1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis (2-Chloroethoxy) Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U

FORM I SV-1

3/90

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW13-2D-WR

Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 609

SAS No.:

SDG No.: 23440

Matrix: (soil/water) WATER

Lab Sample ID: 23735

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: E1856

Level: (low/med) LOW

Date Received: 03/24/95

% Moisture: decanted: (Y/N)

Date Extracted: 03/29/95

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 04/07/95

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH:

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

Q

CAS NO.

COMPOUND

51-28-5-----	2,4-Dinitrophenol	50	U
100-02-7-----	4-Nitrophenol	50	UU
132-64-9-----	Dibenzofuran	10	UUU
121-14-2-----	2,4-Dinitrotoluene	10	UUU
84-66-2-----	Diethylphthalate	10	UUU
7005-72-3-----	4-Chlorophenyl-phenylether	10	UUU
86-73-7-----	Fluorene	10	UUU
100-01-6-----	4-Nitroaniline	50	UUU
534-52-1-----	4,6-Dinitro-2-methylphenol	50	UUU
86-30-6-----	N-Nitrosodiphenylamine (1)	10	UUU
101-55-3-----	4-Bromophenyl-phenylether	10	UUU
118-74-1-----	Hexachlorobenzene	10	UUU
87-86-5-----	Pentachlorophenol	50	UUU
85-01-8-----	Phenanthrene	10	UUU
120-12-7-----	Anthracene	10	UUU
86-74-8-----	Carbazole	10	UUU
84-74-2-----	Di-n-Butylphthalate	10	UUU
206-44-0-----	Fluoranthene	10	UUU
92-87-5-----	Benzidine	50	UUU
55-85-0-----	Benzoic Acid	50	UUU
100-51-6-----	Benzyl Alcohol	10	UUU
129-00-0-----	Pyrene	10	UUU
85-68-7-----	Butylbenzylphthalate	10	UUU
91-94-1-----	3,3'-Dichlorobenzidine	20	UUU
56-55-3-----	Benzo(a)Anthracene	10	UUU
218-01-9-----	Chrysene	10	UUU
117-81-7-----	bis(2-Ethylhexyl)Phthalate	10	UUU
117-84-0-----	Di-n-Octyl Phthalate	10	UUU
205-99-2-----	Benzo(b)Fluoranthene	10	UUU
207-08-9-----	Benzo(k)Fluoranthene	10	UUU
50-32-8-----	Benzo(a)Pyrene	10	UUU
193-39-5-----	Indeno(1,2,3-cd)Pyrene	10	UUU
53-70-3-----	Dibenz(a,h)Anthracene	10	UUU
191-24-2-----	Benzo(g,h,i)Perylene	10	UU

(1) - Cannot be separated from Diphenylamine

FORM I SV-2

3/90

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW13-2D-WR

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 609

SAS No.:

SDG No.: 23440

Matrix: (soil/water) WATER

Lab Sample ID: 23735

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: E1856

Level: (low/med) LOW

Date Received: 03/24/95

% Moisture: decanted: (Y/N)

Date Extracted: 03/29/95

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 04/07/95

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

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

Number TICs found: 1

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 12-34-22	Aldol Condensation Product	5.28	23	ABJN

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF WATER ANALYSIS FOR TENTATIVELY IDENTIFIED
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS

CLIENT : NM-8000 NIAGARA FALLS AFB
TEST NAME : SEMI-VOLATILES
SAMPLE ID LAB : EE-95-23735
SAMPLE ID CLIENT: OI2-MW13-2D-WR-032495
SDG # : 23440

SAMPLE VOLUME: 1000 ML
FINAL VOLUME : 1000 UL

UNITS : UG/L
MATRIX: WATER
DATE RECEIVED : 03/24/95
DATE EXTRACTED: 03/29/95
DATE ANALYZED : 04/07/95
INJECTION VOLUME: 2.0 UL
DILUTION FACTOR : 1.0

9500.648

Total hydrocarbons
present as mass 57

6

TEST CODE :WPCB 1

JOB NUMBER :9500.648

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : OI-2000 CORRECTIVE MEASURES STUDIES

TEST NAME : PCB

UNITS : UG/L

SAMPLE ID LAB : EE-95-23735

MATRIX: WATER

SAMPLE ID CLIENT: OI2-MW13-2D-WR-032495

DATE RECEIVED : 03/24/95

SDG # : 23440

DATE EXTRACTED: 03/29/95

DATE ANALYZED : 04/05/95

SAMPLE VOLUME: 1000 mL

INJECTION VOLUME: 4 uL

FINAL VOLUME : 1.0 mL

DILUTION FACTOR : 1.0

PARAMETER	RESULTS	Q	QNT. LIMIT
PCB-1242	ND		0.50
PCB-1254	ND		0.50
PCB-1221	ND		0.50
PCB-1232	ND		0.50
PCB-1248	ND		0.50
PCB-1260	ND		0.50
PCB-1016	ND		0.50

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

B = ALSO PRESENT IN BLANK

N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE

JOB NUMBER :9500.648

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : OI-2000 CORRECTIVE MEASURES STUDIES
SAMPLE ID LAB : EE-95-23735 MATRIX: WATER
SAMPLE ID CLIENT: OI2-MW13-2D-WR-032495 DATE RECEIVED : 03/24/95
SDG # : 23440

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Arsenic	ND		5.0	UG/L
Lead	ND		5.0	UG/L
Antimony	ND		60	UG/L
Beryllium	ND		5.0	UG/L
Cadmium	ND		5.0	UG/L
Chromium Total	ND		10	UG/L
Copper	ND		20	UG/L
Nickel	ND		20	UG/L
Silver	ND		10	UG/L
Zinc	ND		10	UG/L
Selenium	ND		5.0	UG/L
Thallium	ND		5.0	UG/L
Mercury	ND		0.20	UG/L

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

Case Narrative
NM-8000 Niagara Falls AFB
9500.611; 9500.629

All aqueous volatile samples were determined to be at a pH of 6 s.u.

As requested, the extracted ion profile for m/z 57 over the entire mass chromatogram was obtained for each sample analyzed for volatile and semi-volatile compounds. A value representing the total hydrocarbons present as m/z 57 is reported for each sample. This value was obtained using the internal standard method. The total area of the m/z 57 peaks was compared to the total ion response of the first eluting internal standard assuming a response factor of 1. Since the m/z 57 is present in the internal standards added to all samples, a positive value will always be obtained.

Recovery of the acid phenol surrogate compounds fell below the acceptable limit for sample MW3-5A-WO, MW9-4A-WOD, MW9-6-WO and MW9-8-WO. The samples were reextracted after hold time had expired and reanalyzed with acceptable recoveries for all samples except MW9-8-WO. A matrix effect is indicated for MW9-8-WO. In all cases results from both analyses are included in this report.

Recovery of the PCB laboratory control sample extracted on 3/23 was low at 51%. All associated sample surrogate recoveries were within acceptable limits. No further action was taken.

Recovery of selenium in the matrix spike analysis was below the 75% limit. A post-digestion analytical spike was performed and results are included in this report.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

for Tony Boyphin
Gary Hahn - Manager
Analytical Services Center
April 27, 1995

CHAIN-OF-CUSTODY RECORD

Project No.: NMB000		Project Name: NIAGARA FALLS IAP-ARS (AW) STDDY			Project Manager: J. BASTEDO		REMARKS METALS PRES. w/HNO ₃ BOTTLE LOT #s IN LOG.						
Samplers (Signatures): <i>[Signatures]</i>					Field Team Leader: R. WATT								
STATION NUMBER	DATE	TIME	SAMPLE TYPE			SAMPLE INFORMATION	STATION LOCATION SAMPLE NO.	NUMBER OF CONTAINERS	8200 VOL.	8220 BVA	8080 P/B	TRIP: P/B METALS	
			COMP	GRAB	AIR								EXPECTED COMPOUNDS (Concentration)*
MW0-2	3-22	1000		X		LOW	NMB-MW0-2-WO-032295	6	X	X	X	X	
MW0-3		1100		X			NMB-MW0-3-WO-032295	6	X	X	X	X	
MW0-4		1425		X			NMB-MW0-4-WO-032295	6	X	X	X	X	
MW0-5D		1115		X			NMB-MW0-5D-WO-032295	6	X	X	X	X	
MW0-6D		1135		X			NMB-MW0-6D-WO-032295	6	X	X	X	X	
MW0-8		1045		X			NMB-MW0-8-WO-032295	6	X	X	X	X	
MW0-9D		1410		X			NMB-MW0-9D-WO-032295	6	X	X	X	X	
MW0-3D		1455		X			OL2-MW0-3D-NM-032295	18	X	X	X	X	
MW7-3		1150		X			NMB-MW7-3-WO-032295	1		X			
		1545		X			NMB-MW0-2-WR-032295	6	X	X	X	X	
		0830		X			NMB-MW0-2-WR-032295	3	X				
Relinquished By: (Signature) <i>[Signature]</i>		Date/Time: 3-22-95/1815		Received By: (Signature) <i>[Signature]</i>		Relinquished By: (Signature)		Date/Time:		Received By: (Signature)		Ship Via: EGE	
Relinquished By: (Signature)		Date/Time:		Received By: (Signature)		Relinquished By: (Signature)		Date/Time:		Received By: (Signature)		BL/Airbill Number: NA	
Relinquished By: (Signature)		Date/Time:		Received For Laboratory By: (Signature) <i>[Signature]</i>		Relinquished By: (Signature)		Date/Time:		Received For Laboratory By: (Signature)		Date: 3-22-95	



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CHAIN-OF-CUSTODY RECORD

Project No: NM8060		Project Name: NIAGARA FALLS IAP-ARS GW STUDY			Project Manager: J. BASTEDO		REMARKS								
Samplers: (Signatures) <i>[Signatures]</i>		Field Team Leader: G. FLORENTINO											Meth 8240 VOCs Meth 8270 BNA Meth 8080 PCBs Prior. Poll. Metals		
STATION NUMBER	DATE	TIME	SAMPLE TYPE			SAMPLE INFORMATION	STATION LOCATION	NUMBER OF CONTAINERS							
			COMP	GRAB	AIR										EXPECTED COMPOUNDS (Concentration)*
MW9-1A	1995	3-23	1024	X		LOW	NM8-MW9-1A-WO-032395	6	X	X	X	X	METALS PRESERVED w/ HNO ₃ .		
9-2A			0935	X			NM8-MW9-2A-WO-032395	6	X	X	X	X	BOTTLE LOT #S IN LOG.		
9-3			0924	X			NM8-MW9-3-WO-032395	6	X	X	X	X			
9-4A			1046	X			NM8-MW9-4A-WO-032395	6	X	X	X	X			
9-4A			1046	X			NM8-MW9-4A-WO-032395	6	X	X	X	X	duplicate		
9-5			1050	X			NM8-MW9-5-WO-032395	6	X	X	X	X			
9-6			0955	X			NM8-MW9-6-WO-032395	6	X	X	X	X	Cations: 1: 2.0 upon		
9-7			0946	X			NM8-MW9-7-WO-032395	6	X	X	X	X	2: 3.0 receipt		
9-8			1006	X			NM8-MW9-8-WO-032395	6	X	X	X	X	3: 3.0 5/23/95		
9-9			1028	X			NM8-MW9-9-WO-032395	6	X	X	X	X	4: 1.0 Scott		
													5: 1.0 Thru		
													6: 1.0		
Relinquished By: (Signature)		Date/Time:		Received By: (Signature)		Relinquished By: (Signature)		Date/Time:		Received By: (Signature)		Ship Via:			
Relinquished By: (Signature)		Date/Time:		Received By: (Signature)		Relinquished By: (Signature)		Date/Time:		Received By: (Signature)		EPE HAND DELIVERY			
Relinquished By: (Signature)		Date/Time:		Received For Laboratory By: (Signature)		Relinquished By: (Signature)		Date/Time:		Received For Laboratory By: (Signature)		BL/Airbill Number:		Date:	
<i>[Signature]</i>		3/23/95 1800		<i>[Signature]</i>		<i>[Signature]</i>				<i>[Signature]</i>				03/23/95	

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Distribution: Original Accompanying Shipment: Copy to Coordinator Field Files
See CONCENTRATION RANGE on back of form.



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CHAIN-OF-CUSTODY RECORD

Page 3 of 3

Project No.: NM9023			Project Name: NIAGARA FALLS IAP-ARS, GW STUDY			Project Manager: J. BASTEDO			REMARKS MeH 8240 VOCs MeH 8270 BVA MeH 1080 PCBs Prior: Pdl. Metals					
Samplers: (Signatures) <i>Barth</i>			Field Team Leader: G. FLORENTINO											
STATION NUMBER	DATE 1995	TIME	SAMPLE TYPE			STATION LOCATION	NUMBER OF CONTAINERS							
			COMP	GRAB	AIR			EXPECTED COMPOUNDS (Concentration)*						
MW3-6D	3-23	1510	X			NM9-MW3-6D-WO-032395	5	X	X	X				METALS PRESERVED w/HNO3
MW9-4A	3-23	1630	X			NM9-MW9-4A-WR-032395	6	X	X	X	X	BOTTLE LOT #'S IN LOG.		
-	3-23	-	X			NM9-MW3-6A-WT-032395	3	X				RINSATE BLK.		
												TRIP BLK.		
						SrC Job # 9500.683								

Relinquished By: (Signature) <i>J. Barth</i>	Date/Time: 3/23/95 1800	Received By: (Signature) <i>G. Fiorentino</i>	Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Ship Via: EDE HAND DELIVERY
Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	BL/Airbill Number: -
Relinquished By: (Signature)	Date/Time:	Received For Laboratory By: (Signature)	Relinquished By: (Signature)	Date/Time:	Received For Laboratory By: (Signature)	Date: 03/23/95

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*See CONCENTRATION RANGE on back of form.

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International Specialists in the Environment

CHAIN OF CUSTODY RECORD

Project No.: NMB8060		Project Name: NIAGARA FALLS IAP-ARS GW STUDY				Project Manager: J. BASTEDO				REMARKS						
Signed By: (Signatures) <i>[Signatures]</i>		Field Team Leader: G. FLORENTINO														
STATION NUMBER	DATE	TIME	SAMPLE TYPE			EXPECTED COMPOUNDS (Concentration)*	STATION LOCATION	NUMBER OF CONTAINERS	Meth 8240 VOCs Meth 8210 BNA Meth 8080 PCBs Priol. Pol. Metals PCDD/PCDF							
			COMP	GRAB	AIR											
MW3-3D	3/23	1245		X		LOW	NMB-MW3-3D-WO-032395	6	X	X	X	X	METALS PRESERVED W/ HNO ₃ BOTTLE LOTS IN LOG.			
34		1420		X			NMB-MW3-4-WO-032395	5	X	X	X					
35A		1355		X			NMB-MW3-5A-WO-032395	6	X	X	X	X				
35A		1355		X			NMB-MW3-5A-WM-032395	6	X	X	X	X				MS
35A		1355		X			NMB-MW3-5A-WD-032395	6	X	X	X	X				MSD
36A		1515		X			NMB-MW3-6A-WO-032395	5	X	X	X					
37		1225		X			NMB-MW3-7-WO-032395	6	X	X	X	X				
Relinquished By: (Signature)		Date/Time:		Received By: (Signature)		Relinquished By: (Signature)		Date/Time:		Received By: (Signature)		Ship Via				
Relinquished By: (Signature)		Date/Time:		Received By: (Signature)		Relinquished By: (Signature)		Date/Time:		Received By: (Signature)		E&E HAND DELIVERY				
Relinquished By: (Signature)		Date/Time: 1800		Received For Laboratory By: (Signature)		Relinquished By: (Signature)		Date/Time:		Received For Laboratory By: (Signature)		BL/Airbill Number:		Date: 03/23/95		

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* CONCENTRATION RANGE on back of form.

F-301

ecology and environment

To be included with all lab data and with each workplan

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE IDENTIFICATION AND ANALYTICAL REQUIREMENT SUMMARY

Customer Sample Code	Laboratory Sample Code	Analytical Requirements					
		*VOA GC/MS Method #	*BNA GC/MS Method #	*VOA GC Method #	*Pest PCBs Method #	*Metals	*Other
MW10-8-WO	23452	8240	8270		8080	Priority Pollutant	
MW10-9D-WO	23453		I		I	I	
MW10-2-WI	23454						
MW3-5A-WO	23600		8270		8080		
MW3-4-WO	23601						
MW3-6A-WO	23602						
MW3-3D-WO	23603					Priority Pollutant	
MW3-7-WO	23604						
MW9-1A-WO	23605						
MW9-2A-WO	23606						
MW9-3A-WO	23607						
MW9-4A-WO	23608						
MW9-4A-WO	23609						
MW9-4A-WR	23610						
MW9-5-WO	23611						
MW9-6-WO	23612						
MW9-7-WO	23613						
MW9-8-WO	23614						
MW9-9-WO	23615						
MW3-6A-WI	23616						

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW3-3D-WO

Job Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 611

SAS No.:

SDG No.: 23452

Matrix: (soil/water) WATER

Lab Sample ID: 23603

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: F1016

Level: (low/med) LOW

Date Received: 03/23/95

% Moisture: not dec.

Date Analyzed: 03/29/95

GC Column: VOCOL ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

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

CAS NO.	COMPOUND	UG/L	Q
---------	----------	------	---

74-87-3	-----Chloromethane	10	U
74-83-9	-----Bromomethane	10	U
75-01-4	-----Vinyl Chloride	10	U
75-00-3	-----Chloroethane	10	U
75-09-2	-----Methylene Chloride	5	U
67-64-1	-----Acetone	10	U
75-15-0	-----Carbon Disulfide	5	U
75-35-4	-----1,1-Dichloroethene	5	U
75-34-3	-----1,1-Dichloroethane	5	U
156-59-2	-----cis-1,2-Dichloroethene	5	U
156-60-5	-----trans-1,2-Dichloroethene	5	U
67-66-3	-----Chloroform	5	U
107-06-2	-----1,2-Dichloroethane	5	U
78-93-3	-----2-Butanone	10	U
71-55-6	-----1,1,1-Trichloroethane	5	U
56-23-5	-----Carbon Tetrachloride	5	U
75-27-4	-----Bromodichloromethane	5	U
78-87-5	-----1,2-Dichloropropane	5	U
10061-01-5	-----cis-1,3-Dichloropropene	5	U
79-01-6	-----Trichloroethene	5	U
124-48-1	-----Dibromochloromethane	5	U
79-00-5	-----1,1,2-Trichloroethane	5	U
71-43-2	-----Benzene	5	U
10061-02-6	-----trans-1,3-Dichloropropene	5	U
75-25-2	-----Bromoform	5	U
108-10-1	-----4-Methyl-2-Pentanone	10	U
591-78-6	-----2-Hexanone	10	U
127-18-4	-----Tetrachloroethene	5	U
79-34-5	-----1,1,2,2-Tetrachloroethane	5	U
108-88-3	-----Toluene	5	U
108-90-7	-----Chlorobenzene	5	U
100-41-4	-----Ethylbenzene	5	U
100-42-5	-----Styrene	5	U
1330-20-7	-----Xylene (total)	5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO. _____

MW3-3D-WO

Lab Name: E & E INC.

Contract: _____

Lab Code: EANDE

Case No.: 611

SAS No.: _____

SDG No.: 23452

Matrix: (soil/water) WATER

Lab Sample ID: 23603

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: F1016

Level: (low/med) LOW

Date Received: 03/23/95

% Moisture: not dec.

Date Analyzed: 03/29/95

GC Column: VOCOL ID: 0.530 (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
=====	=====	=====	=====	=====

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF WATER ANALYSIS FOR TENTATIVELY IDENTIFIED
VOLATILE ORGANIC COMPOUNDS BY GC/MS

CLIENT	: OI-2000 NIAGARA FALLS AFB	UNITS	: UG/L
TEST NAME	: PURGEABLES	MATRIX	: WATER
SAMPLE ID LAB	: EE-95-23603	DATE RECEIVED	: 03/23/95
SAMPLE ID CLIENT	: NMS-MW3-3D-WO-032295	DATE EXTRACTED	: NA
SDG #	: 23452	DATE ANALYZED	: 03/29/95
SAMPLE VOLUME	: 5.0 ML	INJECTION VOLUME	: NA
FINAL VOLUME	: NA	DILUTION FACTOR	: 1.0

9500.629

Total Hydrocarbons Present as m/z 57 - 3

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW3-4-WO

Name: E & E INC.

Contract:

Code: EANDE

Case No.: 611

SAS No.:

SDG No.: 23452

Matrix: (soil/water) WATER

Lab Sample ID: 23601

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: F1014

Level: (low/med) LOW

Date Received: 03/23/95

% Moisture: not dec.

Date Analyzed: 03/29/95

GC Column: VOCOL ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

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

CAS NO. COMPOUND Q

74-87-3-----	Chloromethane	10	U
74-83-9-----	Bromomethane	10	U
75-01-4-----	Vinyl Chloride	2	J
75-00-3-----	Chloroethane	10	U
75-09-2-----	Methylene Chloride	5	U
67-64-1-----	Acetone	10	U
75-15-0-----	Carbon Disulfide	5	U
75-35-4-----	1,1-Dichloroethene	5	U
75-34-3-----	1,1-Dichloroethane	5	U
156-59-2-----	cis-1,2-Dichloroethene	5	U
156-60-5-----	trans-1,2-Dichloroethene	5	U
67-66-3-----	Chloroform	5	U
107-06-2-----	1,2-Dichloroethane	5	U
78-93-3-----	2-Butanone	10	U
71-55-6-----	1,1,1-Trichloroethane	5	U
56-23-5-----	Carbon Tetrachloride	5	U
75-27-4-----	Bromodichloromethane	5	U
78-87-5-----	1,2-Dichloropropane	5	U
10061-01-5-----	cis-1,3-Dichloropropene	5	U
79-01-6-----	Trichloroethene	5	U
124-48-1-----	Dibromochloromethane	5	U
79-00-5-----	1,1,2-Trichloroethane	5	U
71-43-2-----	Benzene	5	U
10061-02-6-----	trans-1,3-Dichloropropene	5	U
75-25-2-----	Bromoform	5	U
108-10-1-----	4-Methyl-2-Pentanone	10	U
591-78-6-----	2-Hexanone	10	U
127-18-4-----	Tetrachloroethene	5	U
79-34-5-----	1,1,2,2-Tetrachloroethane	5	U
108-88-3-----	Toluene	5	U
108-90-7-----	Chlorobenzene	5	U
100-41-4-----	Ethylbenzene	5	U
100-42-5-----	Styrene	5	U
1330-20-7-----	Xylene (total)	5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW3-4-WO

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 611

SAS No.:

SDG No.: 23452

Matrix: (soil/water) WATER

Lab Sample ID: 23601

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: F1014

Level: (low/med) LOW

Date Received: 03/23/95

% Moisture: not dec.

Date Analyzed: 03/29/95

GC Column: VOCOL ID: 0.530 (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
=====	=====	=====	=====	=====

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF WATER ANALYSIS FOR TENTATIVELY IDENTIFIED
VOLATILE ORGANIC COMPOUNDS BY GC/MS

CLIENT	: OI-2000 NIAGARA FALLS AFB	UNITS	: UG/L
TEST NAME	: PURGEABLES	MATRIX	: WATER
SAMPLE ID LAB	: EE-95-23601	DATE RECEIVED	: 03/23/95
SAMPLE ID CLIENT	: NM8-MW3-4-WO-032295	DATE EXTRACTED	: NA
SDG #	: 23452	DATE ANALYZED	: 03/29/95
SAMPLE VOLUME	: 5.0 ML	INJECTION VOLUME	: NA
FINAL VOLUME	: NA	DILUTION FACTOR	: 1.0

9500.629

Total Hydrocarbons Present as m/z 57 - 3

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW3-5A-WO

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 611

SAS No.:

SDG No.: 23452

Matrix: (soil/water) WATER

Lab Sample ID: 23600

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: F1011

Level: (low/med) LOW

Date Received: 03/23/95

% Moisture: not dec.

Date Analyzed: 03/29/95

GC Column: VOCOL ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	-----Chloromethane	10	U
74-83-9	-----Bromomethane	10	U
75-01-4	-----Vinyl Chloride	10	U
75-00-3	-----Chloroethane	10	U
75-09-2	-----Methylene Chloride	5	U
67-64-1	-----Acetone	10	U
75-15-0	-----Carbon Disulfide	5	U
75-35-4	-----1,1-Dichloroethene	5	U
75-34-3	-----1,1-Dichloroethane	5	U
156-59-2	-----cis-1,2-Dichloroethene	5	U
156-60-5	-----trans-1,2-Dichloroethene	5	U
67-66-3	-----Chloroform	5	U
107-06-2	-----1,2-Dichloroethane	5	U
78-93-3	-----2-Butanone	10	U
71-55-6	-----1,1,1-Trichloroethane	5	U
56-23-5	-----Carbon Tetrachloride	5	U
75-27-4	-----Bromodichloromethane	5	U
78-87-5	-----1,2-Dichloropropane	5	U
10061-01-5	-----cis-1,3-Dichloropropene	5	U
79-01-6	-----Trichloroethene	5	U
124-48-1	-----Dibromochloromethane	5	U
79-00-5	-----1,1,2-Trichloroethane	5	U
71-43-2	-----Benzene	5	U
10061-02-6	-----trans-1,3-Dichloropropene	5	U
75-25-2	-----Bromoform	5	U
108-10-1	-----4-Methyl-2-Pentanone	10	U
591-78-6	-----2-Hexanone	10	U
127-18-4	-----Tetrachloroethene	5	U
79-34-5	-----1,1,2,2-Tetrachloroethane	5	U
108-88-3	-----Toluene	5	U
108-90-7	-----Chlorobenzene	5	U
100-41-4	-----Ethylbenzene	5	U
100-42-5	-----Styrene	5	U
1330-20-7	-----Xylene (total)	5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW3-5A-WO

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 611

SAS No.:

SDG No.: 23452

Matrix: (soil/water) WATER

Lab Sample ID: 23600

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: F1011

Level: (low/med) LOW

Date Received: 03/23/95

% Moisture: not dec.

Date Analyzed: 03/29/95

GC Column: VOCOL ID: 0.530 (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
=====	=====	=====	=====	=====

RESULTS OF WATER ANALYSIS FOR TENTATIVELY IDENTIFIED
VOLATILE ORGANIC COMPOUNDS BY GC/MS

CLIENT	: OI-2000 NIAGARA FALLS AFB	UNITS	: UG/L
TEST NAME	: PURGEABLES	MATRIX	: WATER
SAMPLE ID LAB	: EE-95-23600	DATE RECEIVED	: 03/23/95
SAMPLE ID CLIENT	: NM8-MW3-5A-WO-032395	DATE EXTRACTED	: NA
SDG #	: 23452	DATE ANALYZED	: 03/29/95
SAMPLE VOLUME	: 5.0 ML	INJECTION VOLUME	: NA
FINAL VOLUME	: NA	DILUTION FACTOR	: 1.0

9500.629

Total Hydrocarbons Present as m/z 57 - 3

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW3-6A-WO

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 611

SAS No.:

SDG No.: 23452

Matrix: (soil/water) WATER

Lab Sample ID: 23602

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: F1015

Level: (low/med) LOW

Date Received: 03/23/95

Moisture: not dec.

Date Analyzed: 03/29/95

GC Column: VOCOL ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

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

CAS NO. COMPOUND Q

74-87-3	-----Chloromethane	10	U
74-83-9	-----Bromomethane	10	UU
75-01-4	-----Vinyl Chloride	10	UUU
75-00-3	-----Chloroethane	10	UUUU
75-09-2	-----Methylene Chloride	5	UUUUU
67-64-1	-----Acetone	10	UUUUUU
75-15-0	-----Carbon Disulfide	5	UUUUUUU
75-35-4	-----1,1-Dichloroethene	5	UUUUUUU
75-34-3	-----1,1-Dichloroethane	5	UUUUUUU
156-59-2	-----cis-1,2-Dichloroethene	5	UUUUUUU
156-60-5	-----trans-1,2-Dichloroethene	5	UUUUUUU
67-66-3	-----Chloroform	5	UUUUUUU
107-06-2	-----1,2-Dichloroethane	5	UUUUUUU
78-93-3	-----2-Butanone	10	UUUUUUU
71-55-6	-----1,1,1-Trichloroethane	5	UUUUUUU
56-23-5	-----Carbon Tetrachloride	5	UUUUUUU
75-27-4	-----Bromodichloromethane	5	UUUUUUU
78-87-5	-----1,2-Dichloropropane	5	UUUUUUU
10061-01-5	-----cis-1,3-Dichloropropene	5	UUUUUUU
79-01-6	-----Trichloroethene	5	UUUUUUU
124-48-1	-----Dibromochloromethane	5	UUUUUUU
79-00-5	-----1,1,2-Trichloroethane	5	UUUUUUU
71-43-2	-----Benzene	5	UUUUUUU
10061-02-6	-----trans-1,3-Dichloropropene	5	UUUUUUU
75-25-2	-----Bromoform	5	UUUUUUU
108-10-1	-----4-Methyl-2-Pentanone	10	UUUUUUU
591-78-6	-----2-Hexanone	10	UUUUUUU
127-18-4	-----Tetrachloroethene	5	UUUUUUU
79-34-5	-----1,1,2,2-Tetrachloroethane	5	UUUUUUU
108-88-3	-----Toluene	5	UUUUUUU
108-90-7	-----Chlorobenzene	5	UUUUUUU
100-41-4	-----Ethylbenzene	5	UUUUUUU
100-42-5	-----Styrene	5	UUUUUUU
1330-20-7	-----Xylene (total)	5	UUUUUUU

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW3-6A-WO

Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 611

SAS No.:

SDG No.: 23452

Matrix: (soil/water) WATER

Lab Sample ID: 23602

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: F1015

Level: (low/med) LOW

Date Received: 03/23/95

% Moisture: not dec.

Date Analyzed: 03/29/95

GC Column: VOCOL ID: 0.530 (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
=====	=====	=====	=====	=====

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF WATER ANALYSIS FOR TENTATIVELY IDENTIFIED
VOLATILE ORGANIC COMPOUNDS BY GC/MS

CLIENT	: OI-2000 NIAGARA FALLS AFB	UNITS	: UG/L
TEST NAME	: PURGEABLES	MATRIX	: WATER
SAMPLE ID LAB	: EE-95-23602	DATE RECEIVED	: 03/23/95
SAMPLE ID CLIENT	: NMS-MW3-6A-WO-032395	DATE EXTRACTED	: NA
SDG #	: 23452	DATE ANALYZED	: 03/29/95
SAMPLE VOLUME	: 5.0 ML	INJECTION VOLUME	: NA
FINAL VOLUME	: NA	DILUTION FACTOR	: 1.0

9500.629

Total Hydrocarbons Present as m/z 57 - 3

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW3-6A-WT

Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 611

SAS No.:

SDG No.: 23452

Matrix: (soil/water) WATER

Lab Sample ID: 23616

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: F1040

Level: (low/med) LOW

Date Received: 03/23/95

% Moisture: not dec.

Date Analyzed: 03/30/95

GC Column: VOCOL ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

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

CAS NO. COMPOUND Q

74-87-3	-----Chloromethane	10	U
74-83-9	-----Bromomethane	10	UU
75-01-4	-----Vinyl Chloride	10	UUU
75-00-3	-----Chloroethane	10	UUUU
75-09-2	-----Methylene Chloride	5	UUUUU
67-64-1	-----Acetone	10	UUUUUU
75-15-0	-----Carbon Disulfide	5	UUUUUUU
75-35-4	-----1,1-Dichloroethene	5	UUUUUUUU
75-34-3	-----1,1-Dichloroethane	5	UUUUUUUUU
156-59-2	-----cis-1,2-Dichloroethene	5	UUUUUUUUU
156-60-5	-----trans-1,2-Dichloroethene	5	UUUUUUUUU
67-66-3	-----Chloroform	5	UUUUUUUUU
107-06-2	-----1,2-Dichloroethane	5	UUUUUUUUU
78-93-3	-----2-Butanone	10	UUUUUUUUU
71-55-6	-----1,1,1-Trichloroethane	5	UUUUUUUUU
56-23-5	-----Carbon Tetrachloride	5	UUUUUUUUU
75-27-4	-----Bromodichloromethane	5	UUUUUUUUU
78-87-5	-----1,2-Dichloropropane	5	UUUUUUUUU
10061-01-5	-----cis-1,3-Dichloropropene	5	UUUUUUUUU
79-01-6	-----Trichloroethene	5	UUUUUUUUU
124-48-1	-----Dibromochloromethane	5	UUUUUUUUU
79-00-5	-----1,1,2-Trichloroethane	5	UUUUUUUUU
71-43-2	-----Benzene	5	UUUUUUUUU
10061-02-6	-----trans-1,3-Dichloropropene	5	UUUUUUUUU
75-25-2	-----Bromoform	5	UUUUUUUUU
108-10-1	-----4-Methyl-2-Pentanone	10	UUUUUUUUU
591-78-6	-----2-Hexanone	10	UUUUUUUUU
127-18-4	-----Tetrachloroethene	5	UUUUUUUUU
79-34-5	-----1,1,2,2-Tetrachloroethane	5	UUUUUUUUU
108-88-3	-----Toluene	5	UUUUUUUUU
108-90-7	-----Chlorobenzene	5	UUUUUUUUU
100-41-4	-----Ethylbenzene	5	UUUUUUUUU
100-42-5	-----Styrene	5	UUUUUUUUU
1330-20-7	-----Xylene (total)	5	UUUUUUUUU

1E
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW3-6A-WT

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 611

SAS No.:

SDG No.: 23452

Matrix: (soil/water) WATER

Lab Sample ID: 23616

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: F1040

Level: (low/med) LOW

Date Received: 03/23/95

% Moisture: not dec.

Date Analyzed: 03/30/95

GC Column: VOCOL ID: 0.530 (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
=====	=====	=====	=====	=====

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF WATER ANALYSIS FOR TENTATIVELY IDENTIFIED
VOLATILE ORGANIC COMPOUNDS BY GC/MS

CLIENT	: OI-2000 NIAGARA FALLS AFB	UNITS	: UG/L
TEST NAME	: PURGEABLES	MATRIX	: WATER
SAMPLE ID LAB	: EE-95-23616	DATE RECEIVED	: 03/23/95
SAMPLE ID CLIENT	: NM8-MW3-6A-WT-032395	DATE EXTRACTED	: NA
SDG #	: 23452	DATE ANALYZED	: 03/30/95
SAMPLE VOLUME	: 5.0 ML	INJECTION VOLUME	: NA
FINAL VOLUME	: NA	DILUTION FACTOR	: 1.0

9500.629

Total Hydrocarbons Present as m/z 57 - 3

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW3-7-WO

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 611

SAS No.:

SDG No.: 23452

Matrix: (soil/water) WATER

Lab Sample ID: 23604

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: F1017

Level: (low/med) LOW

Date Received: 03/23/95

% Moisture: not dec.

Date Analyzed: 03/29/95

GC Column: VOCOL ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW3-7-WO

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 611

SAS No.:

SDG No.: 23452

Matrix: (soil/water) WATER

Lab Sample ID: 23604

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: F1017

Level: (low/med) LOW

Date Received: 03/23/95

% Moisture: not dec.

Date Analyzed: 03/29/95

GC Column: VOCOL ID: 0.530 (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
=====	=====	=====	=====	=====

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF WATER ANALYSIS FOR TENTATIVELY IDENTIFIED
VOLATILE ORGANIC COMPOUNDS BY GC/MS

CLIENT	: OI-2000 NIAGARA FALLS AFB	UNITS	: UG/L
TEST NAME	: PURGEABLES	MATRIX	: WATER
SAMPLE ID LAB	: EE-95-23604	DATE RECEIVED	: 03/23/95
SAMPLE ID CLIENT	: NM8-MW3-7-WO-032295	DATE EXTRACTED	: NA
SDG #	: 23452	DATE ANALYZED	: 03/29/95
SAMPLE VOLUME	: 5.0 ML	INJECTION VOLUME	: NA
FINAL VOLUME	: NA	DILUTION FACTOR	: 1.0

9500.629

Total Hydrocarbons Present as m/z 57 - 3

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW3-3D-WO

Job Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 611

SAS No.:

SDG No.: 23452

Matrix: (soil/water) WATER

Lab Sample ID: 23603

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: E1822

Level: (low/med) LOW

Date Received: 03/23/95

% Moisture: decanted: (Y/N)

Date Extracted: 03/28/95

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 04/03/95

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH:

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

CAS NO.

COMPOUND

Q

108-95-2-----Phenol	10	U
111-44-4-----bis(2-Chloroethyl) Ether	10	U
95-57-8-----2-Chlorophenol	10	U
541-73-1-----1,3-Dichlorobenzene	10	U
106-46-7-----1,4-Dichlorobenzene	10	U
95-50-1-----1,2-Dichlorobenzene	10	U
95-48-7-----2-Methylphenol	10	U
108-60-1-----2,2'-oxybis(1-Chloropropane)	10	U
106-44-5-----4-Methylphenol	10	U
621-64-7-----N-Nitroso-Di-n-Propylamine	10	U
67-72-1-----Hexachloroethane	10	U
98-95-3-----Nitrobenzene	10	U
78-59-1-----Isophorone	10	U
88-75-5-----2-Nitrophenol	10	U
105-67-9-----2,4-Dimethylphenol	10	U
111-91-1-----bis(2-Chloroethoxy)Methane	10	U
120-83-2-----2,4-Dichlorophenol	10	U
120-82-1-----1,2,4-Trichlorobenzene	10	U
91-20-3-----Naphthalene	10	U
106-47-8-----4-Chloroaniline	10	U
87-68-3-----Hexachlorobutadiene	10	U
59-50-7-----4-Chloro-3-Methylphenol	10	U
91-57-6-----2-Methylnaphthalene	10	U
77-47-4-----Hexachlorocyclopentadiene	10	U
88-06-2-----2,4,6-Trichlorophenol	10	U
95-95-4-----2,4,5-Trichlorophenol	50	U
91-58-7-----2-Chloronaphthalene	10	U
88-74-4-----2-Nitroaniline	50	U
131-11-3-----Dimethylphthalate	10	U
208-96-8-----Acenaphthylene	10	U
606-20-2-----2,6-Dinitrotoluene	10	U
99-09-2-----3-Nitroaniline	50	U
83-32-9-----Acenaphthene	10	U

FORM I SV-1

3/90

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1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW3-3D-WO

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 611

SAS No.:

SDG No.: 23452

Matrix: (soil/water) WATER

Lab Sample ID: 23603

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: E1822

Level: (low/med) LOW

Date Received: 03/23/95

% Moisture: decanted: (Y/N)

Date Extracted: 03/28/95

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 04/03/95

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH:

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

CAS NO.

COMPOUND

Q

51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
92-87-5	Benzidine	50	U
55-85-0	Benzoic Acid	50	U
100-51-6	Benzyl Alcohol	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo (a) Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl) Phthalate	10	U
117-84-0	Di-n-Octyl Phthalate	10	U
205-99-2	Benzo (b) Fluoranthene	10	U
207-08-9	Benzo (k) Fluoranthene	10	U
50-32-8	Benzo (a) Pyrene	10	U
193-39-5	Indeno (1,2,3-cd) Pyrene	10	U
53-70-3	Dibenz (a,h) Anthracene	10	U
191-24-2	Benzo (g,h,i) Perylene	10	U

(1) - Cannot be separated from Diphenylamine
FORM I SV-2

3/90

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW3-3D-WO

Name: E & E INC. Contract: _____
 Lab Code: EANDE Case No.: 611 SAS No.: _____ SDG No.: 23452
 Matrix: (soil/water) WATER Lab Sample ID: 23603
 Sample wt/vol: 1000 (g/mL) ML Lab File ID: E1822
 Level: (low/med) LOW Date Received: 03/23/95
 % Moisture: decanted: (Y/N) Date Extracted: 03/28/95
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/03/95
 Injection Volume: 2.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____

Number TICs found: 3 CONCENTRATION UNITS:
 (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 12-34-22	Aldol Condensation Product	5.36	28	ABJN
2.	UNKNOWN	15.01	4	J
3.	UNKNOWN	41.62	5	J

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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW3-5A-WO

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 611

SAS No.:

SDG No.: 23452

Matrix: (soil/water) WATER

Lab Sample ID: 23600

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: E1817

Level: (low/med) LOW

Date Received: 03/23/95

% Moisture: decanted: (Y/N)

Date Extracted: 03/28/95

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 04/03/95

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

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

CAS NO.

COMPOUND

Q

108-95-2-----	Phenol	10	U
111-44-4-----	bis(2-Chloroethyl) Ether	10	UU
95-57-8-----	2-Chlorophenol	10	UUU
541-73-1-----	1,3-Dichlorobenzene	10	UUUU
106-46-7-----	1,4-Dichlorobenzene	10	UUUU
95-50-1-----	1,2-Dichlorobenzene	10	UUUU
95-48-7-----	2-Methylphenol	10	UUUU
108-60-1-----	2,2'-oxybis(1-Chloropropane)	10	UUUU
106-44-5-----	4-Methylphenol	10	UUUU
621-64-7-----	N-Nitroso-Di-n-Propylamine	10	UUUU
67-72-1-----	Hexachloroethane	10	UUUU
98-95-3-----	Nitrobenzene	10	UUUU
78-59-1-----	Isophorone	10	UUUU
88-75-5-----	2-Nitrophenol	10	UUUU
105-67-9-----	2,4-Dimethylphenol	10	UUUU
111-91-1-----	bis(2-Chloroethoxy)Methane	10	UUUU
120-83-2-----	2,4-Dichlorophenol	10	UUUU
120-82-1-----	1,2,4-Trichlorobenzene	10	UUUU
91-20-3-----	Naphthalene	10	UUUU
106-47-8-----	4-Chloroaniline	10	UUUU
87-68-3-----	Hexachlorobutadiene	10	UUUU
59-50-7-----	4-Chloro-3-Methylphenol	10	UUUU
91-57-6-----	2-Methylnaphthalene	10	UUUU
77-47-4-----	Hexachlorocyclopentadiene	10	UUUU
88-06-2-----	2,4,6-Trichlorophenol	10	UUUU
95-95-4-----	2,4,5-Trichlorophenol	50	UUUU
91-58-7-----	2-Chloronaphthalene	10	UUUU
88-74-4-----	2-Nitroaniline	50	UUUU
131-11-3-----	Dimethylphthalate	10	UUUU
208-96-8-----	Acenaphthylene	10	UUUU
606-20-2-----	2,6-Dinitrotoluene	10	UUUU
99-09-2-----	3-Nitroaniline	50	UUUU
83-32-9-----	Acenaphthene	10	UUUU

FORM I SV-1

3/90

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW3-5A-WO

Client Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 611

SAS No.:

SDG No.: 23452

Matrix: (soil/water) WATER

Lab Sample ID: 23600

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: E1817

Level: (low/med) LOW

Date Received: 03/23/95

% Moisture: decanted: (Y/N)

Date Extracted: 03/28/95

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 04/03/95

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

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

CAS NO.

COMPOUND

Q

51-28-5-----	2,4-Dinitrophenol	50	U
100-02-7-----	4-Nitrophenol	50	UU
132-64-9-----	Dibenzofuran	10	UUUU
121-14-2-----	2,4-Dinitrotoluene	10	UUUUUU
84-66-2-----	Diethylphthalate	10	UUUUUU
7005-72-3-----	4-Chlorophenyl-phenylether	10	UUUUUU
86-73-7-----	Fluorene	10	UUUUUU
100-01-6-----	4-Nitroaniline	50	UUUUUU
534-52-1-----	4,6-Dinitro-2-methylphenol	50	UUUUUU
86-30-6-----	N-Nitrosodiphenylamine (1)	10	UUUUUU
101-55-3-----	4-Bromophenyl-phenylether	10	UUUUUU
118-74-1-----	Hexachlorobenzene	10	UUUUUU
87-86-5-----	Pentachlorophenol	50	UUUUUU
85-01-8-----	Phenanthrene	10	UUUUUU
120-12-7-----	Anthracene	10	UUUUUU
86-74-8-----	Carbazole	10	UUUUUU
84-74-2-----	Di-n-Butylphthalate	10	UUUUUU
206-44-0-----	Fluoranthene	10	UUUUUU
92-87-5-----	Benzidine	50	UUUUUU
55-85-0-----	Benzoic Acid	50	UUUUUU
100-51-6-----	Benzyl Alcohol	10	UUUUUU
129-00-0-----	Pyrene	10	UUUUUU
85-68-7-----	Butylbenzylphthalate	10	UUUUUU
91-94-1-----	3,3'-Dichlorobenzidine	20	UUUUUU
56-55-3-----	Benzo(a)Anthracene	10	UUUUUU
218-01-9-----	Chrysene	10	UUUUUU
117-81-7-----	bis(2-Ethylhexyl)Phthalate	10	UUUUUU
117-84-0-----	Di-n-Octyl Phthalate	10	UUUUUU
205-99-2-----	Benzo(b)Fluoranthene	10	UUUUUU
207-08-9-----	Benzo(k)Fluoranthene	10	UUUUUU
50-32-8-----	Benzo(a)Pyrene	10	UUUUUU
193-39-5-----	Indeno(1,2,3-cd)Pyrene	10	UUUUUU
53-70-3-----	Dibenz(a,h)Anthracene	10	UUUUUU
191-24-2-----	Benzo(g,h,i)Perylene	10	UUUUUU

(1) - Cannot be separated from Diphenylamine
FORM I SV-2

3/90

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW3-5A-WO

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 611

SAS No.:

SDG No.: 23452

Matrix: (soil/water) WATER

Lab Sample ID: 23600

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: E1817

Level: (low/med) LOW

Date Received: 03/23/95

% Moisture: decanted: (Y/N)

Date Extracted: 03/28/95

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 04/03/95

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs found: 2

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 12-34-22	Aldol Condensation Product	5.34	19	ABJN
2.	UNKNOWN	7.39	12	J

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF WATER ANALYSIS FOR TENTATIVELY IDENTIFIED
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS

CLIENT	: NM-8000 NIAGARA FALLS AFB	UNITS	: UG/L
TEST NAME	: SEMI-VOLATILES	MATRIX:	WATER
SAMPLE ID LAB	: EE-95-23600	DATE RECEIVED	: 03/23/95
SAMPLE ID CLIENT	: NM8-MW3-5A-WO-032395	DATE EXTRACTED	: 03/28/95
SDG #	: 23452	DATE ANALYZED	: 04/03/95
SAMPLE VOLUME:	1000 ML	INJECTION VOLUME:	2.0 UL
FINAL VOLUME	: 1000 UL	DILUTION FACTOR	: 1.0

9500.629

Total hydrocarbons
present as mass 57

3

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW3-4-WO

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 611

SAS No.:

SDG No.: 23452

Matrix: (soil/water) WATER

Lab Sample ID: 23601

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: E1820

Level: (low/med) LOW

Date Received: 03/23/95

% Moisture: decanted: (Y/N)

Date Extracted: 03/28/95

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 04/03/95

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH:

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

CAS NO.

COMPOUND

Q

108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl) Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U

FORM I SV-1

3/90

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1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW3-4-WO

Client Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 611

SAS No.:

SDG No.: 23452

Matrix: (soil/water) WATER

Lab Sample ID: 23601

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: E1820

Level: (low/med) LOW

Date Received: 03/23/95

% Moisture: decanted: (Y/N)

Date Extracted: 03/28/95

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 04/03/95

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

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

CAS NO.

COMPOUND

Q

51-28-5-----	2,4-Dinitrophenol	50	U
100-02-7-----	4-Nitrophenol	50	U
132-64-9-----	Dibenzofuran	10	U
121-14-2-----	2,4-Dinitrotoluene	10	U
84-66-2-----	Diethylphthalate	10	U
7005-72-3-----	4-Chlorophenyl-phenylether	10	U
86-73-7-----	Fluorene	10	U
100-01-6-----	4-Nitroaniline	50	U
534-52-1-----	4,6-Dinitro-2-methylphenol	50	U
86-30-6-----	N-Nitrosodiphenylamine (1)	10	U
101-55-3-----	4-Bromophenyl-phenylether	10	U
118-74-1-----	Hexachlorobenzene	10	U
87-86-5-----	Pentachlorophenol	50	U
85-01-8-----	Phenanthrene	10	U
120-12-7-----	Anthracene	10	U
86-74-8-----	Carbazole	10	U
84-74-2-----	Di-n-Butylphthalate	10	U
206-44-0-----	Fluoranthene	10	U
92-87-5-----	Benzidine	50	U
55-85-0-----	Benzoic Acid	50	U
100-51-6-----	Benzyl Alcohol	10	U
129-00-0-----	Pyrene	10	U
85-68-7-----	Butylbenzylphthalate	10	U
91-94-1-----	3,3'-Dichlorobenzidine	20	U
56-55-3-----	Benzo(a)Anthracene	10	U
218-01-9-----	Chrysene	10	U
117-81-7-----	bis(2-Ethylhexyl)Phthalate	10	U
117-84-0-----	Di-n-Octyl Phthalate	10	U
205-99-2-----	Benzo(b)Fluoranthene	10	U
207-08-9-----	Benzo(k)Fluoranthene	10	U
50-32-8-----	Benzo(a)Pyrene	10	U
193-39-5-----	Indeno(1,2,3-cd)Pyrene	10	U
53-70-3-----	Dibenz(a,h)Anthracene	10	U
191-24-2-----	Benzo(g,h,i)Perylene	10	U

(1) - Cannot be separated from Diphenylamine

FORM I SV-2

3/90

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW3-4-WO

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 611

SAS No.:

SDG No.: 23452

Matrix: (soil/water) WATER

Lab Sample ID: 23601

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: E1820

Level: (low/med) LOW

Date Received: 03/23/95

% Moisture: decanted: (Y/N)

Date Extracted: 03/28/95

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 04/03/95

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

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

Number TICs found: 2

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 12-34-22	Aldol Condensation Product	5.43	210	ABJN
2.	UNKNOWN HYDROCARBON	10.18	6	J

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF WATER ANALYSIS FOR TENTATIVELY IDENTIFIED
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS

CLIENT	: NM-8000 NIAGARA FALLS AFB	UNITS	: UG/L
TEST NAME	: SEMI-VOLATILES	MATRIX	: WATER
SAMPLE ID LAB	: EE-95-23601	DATE RECEIVED	: 03/23/95
SAMPLE ID CLIENT	: NMS-MW3-4-WO-032395	DATE EXTRACTED	: 03/28/95
SDG #	: 23452	DATE ANALYZED	: 04/03/95
SAMPLE VOLUME	: 1000 ML	INJECTION VOLUME	: 2.0 UL
FINAL VOLUME	: 1000 UL	DILUTION FACTOR	: 1.0

9500.629

Total hydrocarbons
present as mass 57

8

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW3-5A-WORE

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 611

SAS No.:

SDG No.: 23452

Matrix: (soil/water) WATER

Lab Sample ID: 23600RE

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: G0006

Level: (low/med) LOW

Date Received: 03/23/95

% Moisture: decanted: (Y/N)

Date Extracted: 04/11/95

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 04/14/95

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH:

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

CAS NO.

COMPOUND

Q

108-95-2-----	Phenol	10	U
111-44-4-----	bis(2-Chloroethyl) Ether	10	U
95-57-8-----	2-Chlorophenol	10	U
541-73-1-----	1,3-Dichlorobenzene	10	U
106-46-7-----	1,4-Dichlorobenzene	10	U
95-50-1-----	1,2-Dichlorobenzene	10	U
95-48-7-----	2-Methylphenol	10	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5-----	4-Methylphenol	10	U
621-64-7-----	N-Nitroso-Di-n-Propylamine	10	U
67-72-1-----	Hexachloroethane	10	U
98-95-3-----	Nitrobenzene	10	U
78-59-1-----	Isophorone	10	U
88-75-5-----	2-Nitrophenol	10	U
105-67-9-----	2,4-Dimethylphenol	10	U
111-91-1-----	bis(2-Chloroethoxy)Methane	10	U
120-83-2-----	2,4-Dichlorophenol	10	U
120-82-1-----	1,2,4-Trichlorobenzene	10	U
91-20-3-----	Naphthalene	10	U
106-47-8-----	4-Chloroaniline	10	U
87-68-3-----	Hexachlorobutadiene	10	U
59-50-7-----	4-Chloro-3-Methylphenol	10	U
91-57-6-----	2-Methylnaphthalene	10	U
77-47-4-----	Hexachlorocyclopentadiene	10	U
88-06-2-----	2,4,6-Trichlorophenol	10	U
95-95-4-----	2,4,5-Trichlorophenol	50	U
91-58-7-----	2-Chloronaphthalene	10	U
88-74-4-----	2-Nitroaniline	50	U
131-11-3-----	Dimethylphthalate	10	U
208-96-8-----	Acenaphthylene	10	U
606-20-2-----	2,6-Dinitrotoluene	10	U
99-09-2-----	3-Nitroaniline	50	U
83-32-9-----	Acenaphthene	10	U

FORM I SV-1

3/90

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW3-5A-WORE

Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 611

SAS No.:

SDG No.: 23452

Matrix: (soil/water) WATER

Lab Sample ID: 23600RE

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: G0006

Level: (low/med) LOW

Date Received: 03/23/95

% Moisture: decanted: (Y/N)

Date Extracted: 04/11/95

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 04/14/95

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

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

CAS NO.

COMPOUND

Q

51-28-5-----	2,4-Dinitrophenol	50	U
100-02-7-----	4-Nitrophenol	50	U
132-64-9-----	Dibenzofuran	10	U
121-14-2-----	2,4-Dinitrotoluene	10	U
84-66-2-----	Diethylphthalate	10	U
7005-72-3-----	4-Chlorophenyl-phenylether	10	U
86-73-7-----	Fluorene	10	U
100-01-6-----	4-Nitroaniline	50	U
534-52-1-----	4,6-Dinitro-2-methylphenol	50	U
86-30-6-----	N-Nitrosodiphenylamine (1)	10	U
101-55-3-----	4-Bromophenyl-phenylether	10	U
118-74-1-----	Hexachlorobenzene	10	U
87-86-5-----	Pentachlorophenol	50	U
85-01-8-----	Phenanthrene	10	U
120-12-7-----	Anthracene	10	U
86-74-8-----	Carbazole	10	U
84-74-2-----	Di-n-Butylphthalate	10	U
206-44-0-----	Fluoranthene	10	U
92-87-5-----	Benzidine	50	U
55-85-0-----	Benzoic Acid	50	U
100-51-6-----	Benzyl Alcohol	10	U
129-00-0-----	Pyrene	10	U
85-68-7-----	Butylbenzylphthalate	10	U
91-94-1-----	3,3'-Dichlorobenzidine	20	U
56-55-3-----	Benzo(a)Anthracene	10	U
218-01-9-----	Chrysene	10	U
117-81-7-----	bis(2-Ethylhexyl)Phthalate	10	U
117-84-0-----	Di-n-Octyl Phthalate	10	U
205-99-2-----	Benzo(b)Fluoranthene	10	U
207-08-9-----	Benzo(k)Fluoranthene	10	U
50-32-8-----	Benzo(a)Pyrene	10	U
193-39-5-----	Indeno(1,2,3-cd)Pyrene	10	U
53-70-3-----	Dibenz(a,h)Anthracene	10	U
191-24-2-----	Benzo(g,h,i)Perylene	10	U

(1) - Cannot be separated from Diphenylamine

FORM I SV-2

3/90

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW3-5A-WORE

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 611

SAS No.:

SDG No.: 23452

Matrix: (soil/water) WATER

Lab Sample ID: 23600RE

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: G0006

Level: (low/med) LOW

Date Received: 03/23/95

% Moisture: decanted: (Y/N)

Date Extracted: 04/11/95

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 04/14/95

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

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

Number TICs found: 7

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 12-34-22	Aldol Condensation Product	3.75	18	ABJN
2.	UNKNOWN	5.84	11	J
3.	UNKNOWN OXY. HYDROCARBON	8.57	5	J
4.	UNKNOWN	32.30	27	J
5.	UNKNOWN	36.58	37	J
6.	UNKNOWN	38.79	31	J
7.	UNKNOWN	41.81	8	J

RESULTS OF WATER ANALYSIS FOR TENTATIVELY IDENTIFIED
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS

CLIENT	: NM-8000 NIAGARA FALLS AFB	UNITS	: UG/L
TEST NAME	: SEMI-VOLATILES	MATRIX	: WATER
SAMPLE ID LAB	: EE-95-23600 RE	DATE RECEIVED	: 03/23/95
SAMPLE ID CLIENT	: NM8-MW3-5A-WO-032395	DATE EXTRACTED	: 04/11/95
SDG #	: 23452	DATE ANALYZED	: 04/14/95
SAMPLE VOLUME	: 1000 ML	INJECTION VOLUME	: 2.0 UL
FINAL VOLUME	: 1000 UL	DILUTION FACTOR	: 1.0

9500.629

Total hydrocarbons
present as mass 57 16

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW3-6A-WO

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 611

SAS No.:

SDG No.: 23452

Matrix: (soil/water) WATER

Lab Sample ID: 23602

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: E1821

Level: (low/med) LOW

Date Received: 03/23/95

% Moisture: decanted: (Y/N)

Date Extracted: 03/28/95

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 04/03/95

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH:

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

CAS NO.

COMPOUND

Q

108-95-2-----	Phenol	10	U
111-44-4-----	bis(2-Chloroethyl) Ether	10	U
95-57-8-----	2-Chlorophenol	10	U
541-73-1-----	1,3-Dichlorobenzene	10	U
106-46-7-----	1,4-Dichlorobenzene	10	U
95-50-1-----	1,2-Dichlorobenzene	10	U
95-48-7-----	2-Methylphenol	10	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5-----	4-Methylphenol	10	U
621-64-7-----	N-Nitroso-Di-n-Propylamine	10	U
67-72-1-----	Hexachloroethane	10	U
98-95-3-----	Nitrobenzene	10	U
78-59-1-----	Isophorone	10	U
88-75-5-----	2-Nitrophenol	10	U
105-67-9-----	2,4-Dimethylphenol	10	U
111-91-1-----	bis(2-Chloroethoxy)Methane	10	U
120-83-2-----	2,4-Dichlorophenol	10	U
120-82-1-----	1,2,4-Trichlorobenzene	10	U
91-20-3-----	Naphthalene	10	U
106-47-8-----	4-Chloroaniline	10	U
87-68-3-----	Hexachlorobutadiene	10	U
59-50-7-----	4-Chloro-3-Methylphenol	10	U
91-57-6-----	2-Methylnaphthalene	10	U
77-47-4-----	Hexachlorocyclopentadiene	10	U
88-06-2-----	2,4,6-Trichlorophenol	10	U
95-95-4-----	2,4,5-Trichlorophenol	50	U
91-58-7-----	2-Chloronaphthalene	10	U
88-74-4-----	2-Nitroaniline	50	U
131-11-3-----	Dimethylphthalate	10	U
208-96-8-----	Acenaphthylene	10	U
606-20-2-----	2,6-Dinitrotoluene	10	U
99-09-2-----	3-Nitroaniline	50	U
83-32-9-----	Acenaphthene	10	U

FORM I SV-1

3/90

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW3-6A-WO

Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 611

SAS No.:

SDG No.: 23452

Matrix: (soil/water) WATER

Lab Sample ID: 23602

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: E1821

Level: (low/med) LOW

Date Received: 03/23/95

% Moisture: decanted: (Y/N)

Date Extracted: 03/28/95

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 04/03/95

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

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

CAS NO.

COMPOUND

Q

51-28-5-----	2,4-Dinitrophenol	50	U
100-02-7-----	4-Nitrophenol	50	U
132-64-9-----	Dibenzofuran	10	U
121-14-2-----	2,4-Dinitrotoluene	10	U
84-66-2-----	Diethylphthalate	10	U
7005-72-3-----	4-Chlorophenyl-phenylether	10	U
86-73-7-----	Fluorene	10	U
100-01-6-----	4-Nitroaniline	50	U
534-52-1-----	4,6-Dinitro-2-methylphenol	50	U
86-30-6-----	N-Nitrosodiphenylamine (i)	10	U
101-55-3-----	4-Bromophenyl-phenylether	10	U
118-74-1-----	Hexachlorobenzene	10	U
87-86-5-----	Pentachlorophenol	50	U
85-01-8-----	Phenanthrene	10	U
120-12-7-----	Anthracene	10	U
86-74-8-----	Carbazole	10	U
84-74-2-----	Di-n-Butylphthalate	10	U
206-44-0-----	Fluoranthene	10	U
92-87-5-----	Benzidine	50	U
55-85-0-----	Benzoic Acid	50	U
100-51-6-----	Benzyl Alcohol	10	U
129-00-0-----	Pyrene	10	U
85-68-7-----	Butylbenzylphthalate	10	U
91-94-1-----	3,3'-Dichlorobenzidine	20	U
56-55-3-----	Benzo(a)Anthracene	10	U
218-01-9-----	Chrysene	10	U
117-81-7-----	bis(2-Ethylhexyl)Phthalate	10	U
117-84-0-----	Di-n-Octyl Phthalate	10	U
205-99-2-----	Benzo(b)Fluoranthene	10	U
207-08-9-----	Benzo(k)Fluoranthene	10	U
50-32-8-----	Benzo(a)Pyrene	10	U
193-39-5-----	Indeno(1,2,3-cd)Pyrene	10	U
53-70-3-----	Dibenz(a,h)Anthracene	10	U
191-24-2-----	Benzo(g,h,i)Perylene	10	U

(1) - Cannot be separated from Diphenylamine

FORM I SV-2

3/90

iF
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW3-6A-WO

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 611

SAS No.:

SDG No.: 23452

Matrix: (soil/water) WATER

Lab Sample ID: 23602

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: E1821

Level: (low/med) LOW

Date Received: 03/23/95

% Moisture: decanted: (Y/N)

Date Extracted: 03/28/95

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 04/03/95

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs found: 1

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 12-34-22	Aldol Condensation Product	5.36	29	ABJN

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF WATER ANALYSIS FOR TENTATIVELY IDENTIFIED
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS

CLIENT	: NM-8000 NIAGARA FALLS AFB	UNITS	: UG/L
TEST NAME	: SEMI-VOLATILES	MATRIX:	WATER
SAMPLE ID LAB	: EE-95-23602	DATE RECEIVED	: 03/23/95
SAMPLE ID CLIENT:	NM8-MW3-6A-WO-032395	DATE EXTRACTED:	03/28/95
SDG #	: 23452	DATE ANALYZED	: 04/03/95
SAMPLE VOLUME:	1000 ML	INJECTION VOLUME:	2.0 UL
FINAL VOLUME	: 1000 UL	DILUTION FACTOR	: 1.0

9500.629

Total hydrocarbons
present as mass 57 5

F-339

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW3-7-WO

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 611

SAS No.:

SDG No.: 23452

Matrix: (soil/water) WATER

Lab Sample ID: 23604

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: E1835

Level: (low/med) LOW

Date Received: 03/23/95

% Moisture: decanted: (Y/N)

Date Extracted: 03/28/95

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 04/04/95

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH:

CONCENTRATION UNITS:

CAS NO.

COMPOUND

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

Q

108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl) Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U

FORM I SV-1

3/90

143

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW3-7-WO

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 611

SAS No.:

SDG No.: 23452

Matrix: (soil/water) WATER

Lab Sample ID: 23604

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: E1835

Level: (low/med) LOW

Date Received: 03/23/95

% Moisture: decanted: (Y/N)

Date Extracted: 03/28/95

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 04/04/95

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH:

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

Q

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	UU
132-64-9	Dibenzofuran	10	UUU
121-14-2	2,4-Dinitrotoluene	10	UUUU
84-66-2	Diethylphthalate	10	UUUU
7005-72-3	4-Chlorophenyl-phenylether	10	UUUU
86-73-7	Fluorene	10	UUUU
100-01-6	4-Nitroaniline	50	UUUU
534-52-1	4,6-Dinitro-2-methylphenol	50	UUUU
86-30-6	N-Nitrosodiphenylamine (1)	10	UUUU
101-55-3	4-Bromophenyl-phenylether	10	UUUU
118-74-1	Hexachlorobenzene	10	UUUU
87-86-5	Pentachlorophenol	50	UUUU
85-01-8	Phenanthrene	10	UUUU
120-12-7	Anthracene	10	UUUU
86-74-8	Carbazole	10	UUUU
84-74-2	Di-n-Butylphthalate	10	UUUU
206-44-0	Fluoranthene	10	UUUU
92-87-5	Benzidine	50	UUUU
55-85-0	Benzoic Acid	50	UUUU
100-51-6	Benzyl Alcohol	10	UUUU
129-00-0	Pyrene	10	UUUU
85-68-7	Butylbenzylphthalate	10	UUUU
91-94-1	3,3'-Dichlorobenzidine	20	UUUU
56-55-3	Benzo(a)Anthracene	10	UUUU
218-01-9	Chrysene	10	UUUU
117-81-7	bis(2-Ethylhexyl) Phthalate	10	UUUU
117-84-0	Di-n-Octyl Phthalate	10	UUUU
205-99-2	Benzo(b) Fluoranthene	10	UUUU
207-08-9	Benzo(k) Fluoranthene	10	UUUU
50-32-8	Benzo(a) Pyrene	10	UUUU
193-39-5	Indeno(1,2,3-cd) Pyrene	10	UUUU
53-70-3	Dibenz(a,h) Anthracene	10	UUUU
191-24-2	Benzo(g,h,i) Perylene	10	UUUU

(1) - Cannot be separated from Diphenylamine

FORM I SV-2

3/90

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW3-7-WO

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 611

SAS No.:

SDG No.: 23452

Matrix: (soil/water) WATER

Lab Sample ID: 23604

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: E1835

Level: (low/med) LOW

Date Received: 03/23/95

% Moisture: decanted: (Y/N)

Date Extracted: 03/28/95

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 04/04/95

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs found: 1

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 12-34-22	Aldol Condensation Product	5.32	10	ABJN

RESULTS OF WATER ANALYSIS FOR TENTATIVELY IDENTIFIED
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS

CLIENT : NM-8000 NIAGARA FALLS AFB
TEST NAME : SEMI-VOLATILES
SAMPLE ID LAB : EE-95-23604
SAMPLE ID CLIENT: NMS-MW3-7-WO-032395
SDG # : 23452

SAMPLE VOLUME: 1000 ML
FINAL VOLUME : 1000 UL

UNITS : UG/L
MATRIX: WATER
DATE RECEIVED : 03/23/95
DATE EXTRACTED: 03/28/95
DATE ANALYZED : 04/04/95
INJECTION VOLUME: 2.0 UL
DILUTION FACTOR : 1.0

9500.629

Total hydrocarbons
present as mass 57 5

TEST CODE : WPCB 1

JOB NUMBER : 9500.629

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NM-8000 NIAGARA FALLS AFB

TEST NAME : PCB

UNITS : UG/L

SAMPLE ID LAB : EE-95-23600

MATRIX: WATER

SAMPLE ID CLIENT: NM8-MW3-5A-WM-032395

DATE RECEIVED : 03/23/95

SDG # : 23452

DATE EXTRACTED: 03/28/95

DATE ANALYZED : 03/31/95

SAMPLE VOLUME: 1000 mLs

INJECTION VOLUME: 4.0 uL

FINAL VOLUME : 1.0 mL

DILUTION FACTOR : 1.0

PARAMETER

RESULTS Q QNT. LIMIT

PARAMETER	RESULTS	Q	QNT. LIMIT
PCB-1242	ND		0.50
PCB-1254	ND		0.50
PCB-1221	ND		0.50
PCB-1232	ND		0.50
PCB-1248	ND		0.50
PCB-1260	ND		0.50
PCB-1016	ND		0.50

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

B = ALSO PRESENT IN BLANK

N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE

TEST CODE : WPCB 1

JOB NUMBER : 9500.629

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NM-8000 NIAGARA FALLS AFB

TEST NAME : PCB

UNITS : UG/L

SAMPLE ID LAB : EE-95-23601

MATRIX: WATER

SAMPLE ID CLIENT: NMS-MW3-4-WO-032395

DATE RECEIVED : 03/23/95

SDG # : 23452

DATE EXTRACTED: 03/28/95

DATE ANALYZED : 04/01/95

SAMPLE VOLUME: 1000 mLs

INJECTION VOLUME: 4.0 uL

FINAL VOLUME : 1.0 mL

DILUTION FACTOR : 1.0

PARAMETER

RESULTS Q QNT. LIMIT

PCB-1242

ND 0.50

PCB-1254

ND 0.50

PCB-1221

ND 0.50

PCB-1232

ND 0.50

PCB-1248

ND 0.50

PCB-1260

ND 0.50

PCB-1016

ND 0.50

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

B = ALSO PRESENT IN BLANK

N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE

TEST CODE : WPCB 1

JOB NUMBER : 9500.629

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NM-8000 NIAGARA FALLS AFB

TEST NAME : PCB

SAMPLE ID LAB : EE-95-23602

SAMPLE ID CLIENT: NM8-MW3-6A-WO-032395

SDG # : 23452

UNITS : UG/L

MATRIX: WATER

DATE RECEIVED : 03/23/95

DATE EXTRACTED: 03/28/95

DATE ANALYZED : 04/01/95

SAMPLE VOLUME: 1000 mLs

FINAL VOLUME : 1.0 mL

INJECTION VOLUME: 4.0 uL

DILUTION FACTOR : 1.0

PARAMETER	RESULTS	Q	QNT. LIMIT
PCB-1242	ND		0.50
PCB-1254	ND		0.50
PCB-1221	ND		0.50
PCB-1232	ND		0.50
PCB-1248	ND		0.50
PCB-1260	ND		0.50
PCB-1016	ND		0.50

QUALIFIERS: C = COMMENT

J = ESTIMATED VALUE

N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE

ND = NOT DETECTED

B = ALSO PRESENT IN BLANK

0 271

TEST CODE : WPCB 1

JOB NUMBER : 9500.629

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NM-8000 NIAGARA FALLS AFB

TEST NAME : PCB

UNITS : UG/L

SAMPLE ID LAB : EE-95-23603

MATRIX: WATER

SAMPLE ID CLIENT: NM8-MW3-3D-WO-032395

DATE RECEIVED : 03/23/95

SDG # : 23452

DATE EXTRACTED: 03/28/95

DATE ANALYZED : 04/01/95

SAMPLE VOLUME: 1000 mLs

INJECTION VOLUME: 4.0 uL

FINAL VOLUME : 1.0 mL

DILUTION FACTOR : 1.0

PARAMETER

RESULTS Q QNT. LIMIT

PCB-1242

ND 0.50

PCB-1254

ND 0.50

PCB-1221

ND 0.50

PCB-1232

ND 0.50

PCB-1248

ND 0.50

PCB-1260

ND 0.50

PCB-1016

ND 0.50

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

B = ALSO PRESENT IN BLANK

N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE

272

TEST CODE : WPCB 1

JOB NUMBER : 9500.629

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NM-8000 NIAGARA FALLS AFB

TEST NAME : PCB

SAMPLE ID LAB : EE-95-23604

SAMPLE ID CLIENT: NMB-MW3-7-WO-032395

SDG # : 23452

UNITS : UG/L

MATRIX: WATER

DATE RECEIVED : 03/23/95

DATE EXTRACTED: 03/28/95

DATE ANALYZED : 04/01/95

SAMPLE VOLUME: 1000 mLs

FINAL VOLUME : 1.0 mL

INJECTION VOLUME: 4.0 uL

DILUTION FACTOR : 1.0

PARAMETER	RESULTS	Q	QNT. LIMIT
PCB-1242	ND		0.50
PCB-1254	ND		0.50
PCB-1221	ND		0.50
PCB-1232	ND		0.50
PCB-1248	ND		0.50
PCB-1260	ND		0.50
PCB-1016	ND		0.50

QUALIFIERS: C = COMMENT

J = ESTIMATED VALUE

N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE

ND = NOT DETECTED

B = ALSO PRESENT IN BLANK

JOB NUMBER: 9500.629

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NM-8000 NIAGARA FALLS AFB
SAMPLE ID LAB : EE-95-23603 MATRIX: WATER
SAMPLE ID CLIENT: NM8-MW3-3D-WO-032395 DATE RECEIVED : 03/23/95
SDG # : 23452

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Arsenic	ND		5.0	UG/L
Lead	12		5.0	UG/L
Antimony	ND		60	UG/L
Beryllium	ND		5.0	UG/L
Cadmium	ND		5.0	UG/L
Chromium Total	ND		10	UG/L
Copper	ND		20	UG/L
Nickel	ND		20	UG/L
Silver	ND		10	UG/L
Zinc	ND		10	UG/L
Selenium	ND		5.0	UG/L
Thallium	ND		5.0	UG/L
Mercury	ND		0.20	UG/L

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

JOB NUMBER : 9500.629
 ELAP ID : 10486

Ecology and Environment, Inc.
 Analytical Services Center

CLIENT : NM-8000 NIAGARA FALLS AFB
 SAMPLE ID LAB : EE-95-23604
 SAMPLE ID CLIENT: NM8-MW3-7-WO-032395
 SDG # : 23452
 MATRIX: WATER
 DATE RECEIVED : 03/23/95

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Arsenic	ND		5.0	UG/L
Lead	9.0		5.0	UG/L
Antimony	ND		60	UG/L
Beryllium	ND		5.0	UG/L
Cadmium	ND		5.0	UG/L
Chromium Total	ND		10	UG/L
Copper	ND		20	UG/L
Nickel	ND		20	UG/L
Silver	ND		10	UG/L
Zinc	88		10	UG/L
Selenium	ND		5.0	UG/L
Thallium	ND		5.0	UG/L
Mercury	ND		0.20	UG/L

 QUALIFIERS: C = COMMENT
 J = ESTIMATED VALUE
 ND = NOT DETECTED

Case Narrative
NM-8000 Niagara Falls AFB
9500.646

All aqueous volatile samples were determined to be at a pH of 6 to 7 s.u.

As requested, the extracted ion profile for m/z 57 over the entire mass chromatogram was obtained for each sample analyzed for volatile and semi-volatile compounds. A value representing the total hydrocarbons present as m/z 57 is reported for each sample. This value was obtained using the internal standard method. The total area of the m/z 57 peaks was compared to the total ion response of the first eluting internal standard assuming a response factor of 1. Since the m/z 57 is present in the internal standards added to all samples, a positive value will always be obtained.

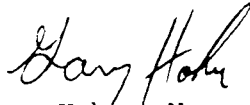
Due to the concentration of volatile target compounds present, samples MW13-5D-WO and MW3-3-WO required reanalysis at a secondary dilution. Results from both analyses are included in this report.

Volatile surrogate compound recovery criterion was not met for sample MW13-5D-WO. The sample required reanalysis at a secondary dilution. Surrogate recoveries were acceptable in the diluted analysis. A matrix interference is indicated.

Recovery of the acid phenol surrogate compounds fell below the acceptable limit for samples MW13-3-WO, MW13-6-WO, MW13-6D-WO and M3-3-WO. The samples were reextracted after hold time had expired and reanalyzed with acceptable recoveries. Results from both analyses is included in this report.

Recovery of selenium in the matrix spike analysis was below the 75% limit. A post-digestion analytical spike was performed and results are included in this report.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.



Gary Hahn - Manager
Analytical Services Center
April 28, 1995

CHAIN-OF-CUSTODY RECORD

Project No.: NM8060		Project Name: NIAGARA FALLS IAP-ARS GW STUDY			Project Manager: J. BASTEDO		<div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center;">REMARKS</p> <p style="text-align: center;">METALS PRESERVED w/HNO₃. BOTTLE LOT #'S IN LOG.</p> </div>							
Samplers: (Signatures) <i>[Signature]</i>					Field Team Leader: G. FLORENTINO						<div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center;"> Meth 8240 VOCs Meth 8210 BNA Meth 8290 PCBs Prot. Poll. Metals </p> </div>			
STATION NUMBER	DATE	TIME	SAMPLE TYPE		STATION LOCATION									
	1995		COMP	GRAB	AIR	EXPECTED COMPOUNDS (Concentration)*								
MW13-6	3-24	1040		X		LDW	NM8-MW13-6-WO-032495	6	X X X X					
MW13-6	3-24	1040		X		↓	NM8-MW13-6D-WO-032495	6	X X X X					
MW13-6	3-24			X			NM1025	1	X					
<i>[Signature]</i> 3/24/95														
Relinquished By: (Signature)		Date/Time:		Received By: (Signature)		Relinquished By: (Signature)		Date/Time:		Received By: (Signature)		Ship Via:		
Relinquished By: (Signature)		Date/Time:		Received By: (Signature)		Relinquished By: (Signature)		Date/Time:		Received By: (Signature)		EYE HAND DELIVERY		
Relinquished By: (Signature)		Date/Time: 3/24/95 1740		Received For Laboratory By: (Signature)		Relinquished By: (Signature)		Date/Time:		Received For Laboratory By: (Signature)		BL/Airbill Number: — Date: 03/24/95		

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files
 * See CONCENTRATION RANGE on back of form.

environment
 352
 3



ecology and environment, inc.

308 PLEASANTVIEW DRIVE, LANCASTER, NEW YORK 14088, TEL. 716/684-8080
International Specialists in the Environment

CHAIN-OF-CUSTODY RECORD

Project No.: NM8060		Project Name: NIAGARA FALLS IAP-APS GW STUDY			Project Manager: J. BASTEDO		METALS PRESERVED W/ HNO ₃ BOTTLE LOT #'S IN BOOK REMARKS METALS 8240 VOCS METALS 8270 BNA METALS 8080 BNA PBIW PALL METALS PCDD/PCDF						
Signatories: (Signatures) <i>[Signatures]</i>		Field Team Leader: G. FLORENTINO											
STATION NUMBER	DATE	TIME	SAMPLE TYPE COMP GRAB AIR	SAMPLE INFORMATION EXPECTED COMPOUNDS (Concentration)*	STATION LOCATION	NUMBER OF CONTAINERS							
MW3-1	3-24	1145	X	LOW	NM8-MW3-1-WO-032495	6	X	X	X	X			
MW3-2		0800	X		NM8-MW3-2-WO-032495	6	X	X	X	X			
MW3-3		0815	X		NM8-MW3-3-WO-032495	7	X	X	X	X	X		
MW3-4		0930	X		NM8-MW3-4-WO-032495	1				X			
MW3-5A		0745	X		NM8-MW3-5A-WO-032495	1				X		OTHER REQUIRED ANALYSES ARE FROM SAMPLES COLLECTED 03/23/95	
MW3-5A		0745	X		NM8-MW3-5A-WM-032495	1				X	MS		
MW3-5A		0745	X		NM8-MW3-5A-WD-032495	1				X	MSD		
MW3-6A		1000	X		NM8-MW3-6A-WO-032495	1				X			
MW13-1		1145	X		NM8-MW13-1-WO-032495	6	X	X	X	X			
MW13-2		1200	X		NM8-MW13-2-WO-032495	6	X	X	X	X			
MW13-3		1116	X		NM8-MW13-3-WO-032495	6	X	X	X	X			
MW13-4		1447	X		NM8-MW13-4-WO-032495	6	X	X	X	X			
MW13-5		1410	X		NM8-MW13-5-WO-032495	6	X	X	X	X			
MW13-5D		1210	X		NM8-MW13-5D-WO-032495	6	X	X	X	X			
Relinquished By: (Signature)		Date/Time:		Received By: (Signature)		Relinquished By: (Signature)		Date/Time:		Received By: (Signature)		Ship Via: EOE HAND DELIVERY	
Relinquished By: (Signature)		Date/Time:		Received By: (Signature)		Relinquished By: (Signature)		Date/Time:		Received By: (Signature)		BL/Airbill Number	
Relinquished By: (Signature)		Date/Time: 3/24/95		Received For Laboratory By: (Signature)		Relinquished By: (Signature)		Date/Time:		Received For Laboratory By: (Signature)		Date: 03/24/95	

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

*See CONCENTRATION RANGE on back of form.

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To be included with all lab data and with each workplan

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE IDENTIFICATION AND ANALYTICAL REQUIREMENT SUMMARY

Customer Sample Code	Laboratory Sample Code	Analytical Requirements					
		*VOA GC/MS Method #	*BNA GC/MS Method #	*VOA GC Method #	*Pest PCBs Method #	*Metals	*Other
MW 3-1-WD	23714	8270	8270		6080	ANALY POLLUTANTS	
MW 3-2-WD	23715	↓	↓		↓	↓	
MW 3-3-WD	23716	↓	↓		↓	↓	
MW 13-1-WD	23717	↓	↓		↓	↓	
MW 13-2-WD	23718	↓	↓		↓	↓	
MW 13-3-WD	23719	↓	↓		↓	↓	
MW 13-4-WD	23720	↓	↓		↓	↓	
MW 13-5-WD	23721	↓	↓		↓	↓	
MW 13-5D-WD	23722	↓	↓		↓	↓	
MW 13-6-WD	23723	↓	↓		↓	↓	
MW 13-6D-WD	23724	↓	↓		↓	↓	
MW 3-4-WD	23725					↓	
MW 3-5A-WM	23726						
MW 3-6A-WD	23727						

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW3-1-WO

Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 646

SAS No.:

SDG No.: 23714

Matrix: (soil/water) WATER

Lab Sample ID: 23714

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: F1075

Level: (low/med) LOW

Date Received: 03/24/95

% Moisture: not dec.

Date Analyzed: 03/30/95

GC Column: VOCOL ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

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

CAS NO. COMPOUND Q

74-87-3	-----Chloromethane	10	U
74-83-9	-----Bromomethane	10	U
75-01-4	-----Vinyl Chloride	10	U
75-00-3	-----Chloroethane	10	U
75-09-2	-----Methylene Chloride	5	U
67-64-1	-----Acetone	10	U
75-15-0	-----Carbon Disulfide	5	U
75-35-4	-----1,1-Dichloroethene	5	U
75-34-3	-----1,1-Dichloroethane	5	U
156-59-2	-----cis-1,2-Dichloroethene	5	U
156-60-5	-----trans-1,2-Dichloroethene	5	U
67-66-3	-----Chloroform	5	U
107-06-2	-----1,2-Dichloroethane	5	U
78-93-3	-----2-Butanone	10	U
71-55-6	-----1,1,1-Trichloroethane	5	U
56-23-5	-----Carbon Tetrachloride	5	U
75-27-4	-----Bromodichloromethane	5	U
78-87-5	-----1,2-Dichloropropane	5	U
10061-01-5	-----cis-1,3-Dichloropropene	5	U
79-01-6	-----Trichloroethene	5	U
124-48-1	-----Dibromochloromethane	5	U
79-00-5	-----1,1,2-Trichloroethane	5	U
71-43-2	-----Benzene	5	U
10061-02-6	-----trans-1,3-Dichloropropene	5	U
75-25-2	-----Bromoform	5	U
108-10-1	-----4-Methyl-2-Pentanone	10	U
591-78-6	-----2-Hexanone	10	U
127-18-4	-----Tetrachloroethene	5	U
79-34-5	-----1,1,2,2-Tetrachloroethane	5	U
108-88-3	-----Toluene	5	U
108-90-7	-----Chlorobenzene	5	U
100-41-4	-----Ethylbenzene	5	U
100-42-5	-----Styrene	5	U
1330-20-7	-----Xylene (total)	5	U

1E
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW3-1-WO

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 646

SAS No.:

SDG No.: 23714

Matrix: (soil/water) WATER

Lab Sample ID: 23714

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: F1075

Level: (low/med) LOW

Date Received: 03/24/95

% Moisture: not dec.

Date Analyzed: 03/30/95

GC Column: VOCOL ID: 0.530 (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

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF WATER ANALYSIS FOR TENTATIVELY IDENTIFIED
VOLATILE ORGANIC COMPOUNDS BY GC/MS

CLIENT : OI-2000 NIAGARA FALLS AFB
TEST NAME : PURGEABLES
SAMPLE ID LAB : EE-95-23714
SAMPLE ID CLIENT: NMS-MW3-1-WO-032495
SDG # : 23714

SAMPLE VOLUME: 5.0 ML
FINAL VOLUME : NA

UNITS : UG/L
MATRIX: WATER
DATE RECEIVED : 03/24/95
DATE EXTRACTED: NA
DATE ANALYZED : 03/30/95
INJECTION VOLUME: NA
DILUTION FACTOR : 1.0

9500.646

Total Hydrocarbons Present as m/z 57 - 4

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW3-2-WO

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 646

SAS No.:

SDG No.: 23714

Matrix: (soil/water) WATER

Lab Sample ID: 23715

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: F1076

Level: (low/med) LOW

Date Received: 03/24/95

% Moisture: not dec.

Date Analyzed: 03/30/95

GC Column: VOCOL ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

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

CAS NO.

COMPOUND

Q

74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

FORM I VOA

3/90

1E
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW3-2-WO

Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 646

SAS No.:

SDG No.: 23714

Matrix: (soil/water) WATER

Lab Sample ID: 23715

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: F1076

Level: (low/med) LOW

Date Received: 03/24/95

% Moisture: not dec.

Date Analyzed: 03/30/95

GC Column: VOCOL ID: 0.530 (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

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF WATER ANALYSIS FOR TENTATIVELY IDENTIFIED
VOLATILE ORGANIC COMPOUNDS BY GC/MS

CLIENT : OI-2000 NIAGARA FALLS AFB

TEST NAME : PURGEABLES

SAMPLE ID LAB : EE-95-23715

SAMPLE ID CLIENT: NMS-MW3-2-WO-032495

SDG # : 23714

SAMPLE VOLUME: 5.0 ML

FINAL VOLUME : NA

UNITS : UG/L

MATRIX: WATER

DATE RECEIVED : 03/24/95

DATE EXTRACTED: NA

DATE ANALYZED : 03/30/95

INJECTION VOLUME: NA

DILUTION FACTOR : 1.0

9500.646

Total Hydrocarbons Present as m/z 57 - 4

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW3-3-WO

Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 646

SAS No.:

SDG No.: 23714

Matrix: (soil/water) WATER

Lab Sample ID: 23716

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: F1077

Level: (low/med) LOW

Date Received: 03/24/95

% Moisture: not dec.

Date Analyzed: 03/30/95

GC Column: VOCOL ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

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

CAS NO.

COMPOUND

Q

74-87-3	-----Chloromethane	10	U
74-83-9	-----Bromomethane	10	U
75-01-4	-----Vinyl Chloride	11	
75-00-3	-----Chloroethane	10	U
75-09-2	-----Methylene Chloride	6	
67-64-1	-----Acetone	10	U
75-15-0	-----Carbon Disulfide	110	
75-35-4	-----1,1-Dichloroethene	5	U
75-34-3	-----1,1-Dichloroethane	5	U
156-59-2	-----cis-1,2-Dichloroethene	36	
156-60-5	-----trans-1,2-Dichloroethene	2	J
67-66-3	-----Chloroform	1300	E
107-06-2	-----1,2-Dichloroethane	5	U
78-93-3	-----2-Butanone	10	U
71-55-6	-----1,1,1-Trichloroethane	5	U
56-23-5	-----Carbon Tetrachloride	2100	E
75-27-4	-----Bromodichloromethane	5	U
78-87-5	-----1,2-Dichloropropane	5	U
10061-01-5	-----cis-1,3-Dichloropropene	5	U
79-01-6	-----Trichloroethene	1000	E
124-48-1	-----Dibromochloromethane	5	U
79-00-5	-----1,1,2-Trichloroethane	5	U
71-43-2	-----Benzene	5	U
10061-02-6	-----trans-1,3-Dichloropropene	5	U
75-25-2	-----Bromoform	5	U
108-10-1	-----4-Methyl-2-Pentanone	10	U
591-78-6	-----2-Hexanone	10	U
127-18-4	-----Tetrachloroethene	5	U
79-34-5	-----1,1,2,2-Tetrachloroethane	5	U
108-88-3	-----Toluene	5	U
108-90-7	-----Chlorobenzene	5	U
100-41-4	-----Ethylbenzene	5	U
100-42-5	-----Styrene	5	U
1330-20-7	-----Xylene (total)	5	U

FORM I VOA

3/90

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW3-3-WO

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 646

SAS No.:

SDG No.: 23714

Matrix: (soil/water) WATER

Lab Sample ID: 23716

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: F1077

Level: (low/med) LOW

Date Received: 03/24/95

% Moisture: not dec.

Date Analyzed: 03/30/95

GC Column: VOCOL ID: 0.530 (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.	UNKNOWN	9.36	9	J

RESULTS OF WATER ANALYSIS FOR TENTATIVELY IDENTIFIED
VOLATILE ORGANIC COMPOUNDS BY GC/MS

CLIENT : OI-2000 NIAGARA FALLS AFB
TEST NAME : PURGEABLES
SAMPLE ID LAB : EE-95-23716
SAMPLE ID CLIENT: NMS-MW3-3-WO-032495
SDG # : 23714

SAMPLE VOLUME: 5.0 ML
FINAL VOLUME : NA

UNITS : UG/L
MATRIX: WATER
DATE RECEIVED : 03/24/95
DATE EXTRACTED: NA
DATE ANALYZED : 03/30/95
INJECTION VOLUME: NA
DILUTION FACTOR : 1.0

9500.646

Total Hydrocarbons Present as m/z 57 - 8

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW3-3-WODL

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 646

SAS No.:

SDG No.: 23714

Matrix: (soil/water) WATER

Lab Sample ID: 23716DL

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: F1088

Level: (low/med) LOW

Date Received: 03/24/95

% Moisture: not dec.

Date Analyzed: 03/31/95

GC Column: VOCOL ID: 0.530 (mm)

Dilution Factor: 25.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

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

CAS NO.

COMPOUND

Q

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	250	U
74-83-9	Bromomethane	250	U
75-01-4	Vinyl Chloride	250	U
75-00-3	Chloroethane	250	U
75-09-2	Methylene Chloride	120	U
67-64-1	Acetone	250	U
75-15-0	Carbon Disulfide	120	U
75-35-4	1,1-Dichloroethene	120	U
75-34-3	1,1-Dichloroethane	120	U
156-59-2	cis-1,2-Dichloroethene	250	U
156-60-5	trans-1,2-Dichloroethene	250	U
67-66-3	Chloroform	1000	D
107-06-2	1,2-Dichloroethane	120	U
78-93-3	2-Butanone	250	U
71-55-6	1,1,1-Trichloroethane	120	U
56-23-5	Carbon Tetrachloride	2400	D
75-27-4	Bromodichloromethane	120	U
78-87-5	1,2-Dichloropropane	120	U
10061-01-5	cis-1,3-Dichloropropene	120	U
79-01-6	Trichloroethene	920	D
124-48-1	Dibromochloromethane	120	U
79-00-5	1,1,2-Trichloroethane	120	U
71-43-2	Benzene	120	U
10061-02-6	trans-1,3-Dichloropropene	120	U
75-25-2	Bromoform	120	U
108-10-1	4-Methyl-2-Pentanone	250	U
591-78-6	2-Hexanone	250	U
127-18-4	Tetrachloroethene	120	U
79-34-5	1,1,2,2-Tetrachloroethane	120	U
108-88-3	Toluene	120	U
108-90-7	Chlorobenzene	120	U
100-41-4	Ethylbenzene	120	U
100-42-5	Styrene	120	U
1330-20-7	Xylene (total)	120	U

FORM I VOA

3/90

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1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW3-3-WODL

Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 646

SAS No.:

SDG No.: 23714

Matrix: (soil/water) WATER

Lab Sample ID: 23716DL

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: F1088

Level: (low/med) LOW

Date Received: 03/24/95

% Moisture: not dec.

Date Analyzed: 03/31/95

GC Column: VOCOL ID: 0.530 (mm)

Dilution Factor: 25.0

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

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF WATER ANALYSIS FOR TENTATIVELY IDENTIFIED
VOLATILE ORGANIC COMPOUNDS BY GC/MS

CLIENT : OI-2000 NIAGARA FALLS AFB
TEST NAME : PURGEABLES
SAMPLE ID LAB : EE-95-23716 DL
SAMPLE ID CLIENT: NM8-MW3-3-WO-032495
SDG # : 23714

SAMPLE VOLUME: 5.0 ML
FINAL VOLUME : NA

UNITS : UG/L
MATRIX: WATER
DATE RECEIVED : 03/24/95
DATE EXTRACTED: NA
DATE ANALYZED : 03/31/95
INJECTION VOLUME: NA
DILUTION FACTOR : 25.0

9500.646

Total Hydrocarbons Present as m/z 57 - 90

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW3-1-WO

Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 646

SAS No.:

SDG No.: 23714

Matrix: (soil/water) WATER

Lab Sample ID: 23714

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: I1439

Level: (low/med) LOW

Date Received: 03/24/95

% Moisture: decanted: (Y/N)

Date Extracted: 03/29/95

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 04/04/95

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH:

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

Q

CAS NO.

COMPOUND

108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl) Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U

FORM I SV-1

3/90

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1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW3-1-WO

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 646

SAS No.:

SDG No.: 23714

Matrix: (soil/water) WATER

Lab Sample ID: 23714

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: I1439

Level: (low/med) LOW

Date Received: 03/24/95

% Moisture: decanted: (Y/N)

Date Extracted: 03/29/95

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 04/04/95

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH:

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

CAS NO.

COMPOUND

Q

51-28-5-----2,4-Dinitrophenol_____	50	U
100-02-7-----4-Nitrophenol_____	50	UUU
132-64-9-----Dibenzofuran_____	10	UUU
121-14-2-----2,4-Dinitrotoluene_____	10	UUU
84-66-2-----Diethylphthalate_____	10	UUU
7005-72-3-----4-Chlorophenyl-phenylether____	10	UUU
86-73-7-----Fluorene_____	10	UUU
100-01-6-----4-Nitroaniline_____	50	UUU
534-52-1-----4,6-Dinitro-2-methylphenol____	50	UUU
86-30-6-----N-Nitrosodiphenylamine (1)____	10	UUU
101-55-3-----4-Bromophenyl-phenylether____	10	UUU
118-74-1-----Hexachlorobenzene_____	10	UUU
87-86-5-----Pentachlorophenol_____	50	UUU
85-01-8-----Phenanthrene_____	10	UUU
120-12-7-----Anthracene_____	10	UUU
86-74-8-----Carbazole_____	10	UUU
84-74-2-----Di-n-Butylphthalate_____	10	UUU
206-44-0-----Fluoranthene_____	10	UUU
92-87-5-----Benzidine_____	50	UUU
55-85-0-----Benzoic Acid_____	50	UUU
100-51-6-----Benzyl Alcohol_____	10	UUU
129-00-0-----Pyrene_____	10	UUU
85-68-7-----Butylbenzylphthalate_____	10	UUU
91-94-1-----3,3'-Dichlorobenzidine_____	20	UUU
56-55-3-----Benzo (a) Anthracene_____	10	UUU
218-01-9-----Chrysene_____	10	UUU
117-81-7-----bis(2-Ethylhexyl) Phthalate____	10	UUU
117-84-0-----Di-n-Octyl Phthalate_____	10	UUU
205-99-2-----Benzo (b) Fluoranthene_____	10	UUU
207-08-9-----Benzo (k) Fluoranthene_____	10	UUU
50-32-8-----Benzo (a) Pyrene_____	10	UUU
193-39-5-----Indeno (1,2,3-cd) Pyrene_____	10	UUU
53-70-3-----Dibenz (a,h) Anthracene_____	10	UUU
191-24-2-----Benzo (g,h,i) Perylene_____	10	U

(1) - Cannot be separated from Diphenylamine
FORM I SV-2

3/90

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW3-1-WO

Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 646

SAS No.:

SDG No.: 23714

Matrix: (soil/water) WATER

Lab Sample ID: 23714

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: I1439

Level: (low/med) LOW

Date Received: 03/24/95

% Moisture: decanted: (Y/N)

Date Extracted: 03/29/95

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 04/04/95

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

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

Number TICs found: 2

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 12-34-22	Aldol Condensation Product	5.57	52	ABJN
2.	UNKNOWN	9.55	4	J

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF WATER ANALYSIS FOR TENTATIVELY IDENTIFIED
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS

CLIENT	: NM-8000 NIAGARA FALLS AFB	UNITS	: UG/L
TEST NAME	: SEMI-VOLATILES	MATRIX	: WATER
SAMPLE ID LAB	: EE-95-23714	DATE RECEIVED	: 03/24/95
SAMPLE ID CLIENT	: NM8-MW3-1-WO-032495	DATE EXTRACTED	: 03/29/95
SDG #	: 23714	DATE ANALYZED	: 04/04/95
SAMPLE VOLUME	: 1000 ML	INJECTION VOLUME	: 2.0 UL
FINAL VOLUME	: 1000 UL	DILUTION FACTOR	: 1.0

9500.646

Total hydrocarbons
present as mass 57 4

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW3-2-WO

Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 646

SAS No.:

SDG No.: 23714

Matrix: (soil/water) WATER

Lab Sample ID: 23715

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: I1440

Level: (low/med) LOW

Date Received: 03/24/95

% Moisture: decanted: (Y/N)

Date Extracted: 03/29/95

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 04/04/95

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH:

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

CAS NO.

COMPOUND

Q

108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl) Ether	10	UU
95-57-8	2-Chlorophenol	10	UU
541-73-1	1,3-Dichlorobenzene	10	UU
106-46-7	1,4-Dichlorobenzene	10	UU
95-50-1	1,2-Dichlorobenzene	10	UUUU
95-48-7	2-Methylphenol	10	UU
108-60-1	2,2'-oxybis(1-Chloropropane)	10	UU
106-44-5	4-Methylphenol	10	UUUU
621-64-7	N-Nitroso-Di-n-Propylamine	10	UUUU
67-72-1	Hexachloroethane	10	UUUUUU
98-95-3	Nitrobenzene	10	UUUU
78-59-1	Isophorone	10	UUUU
88-75-5	2-Nitrophenol	10	UUUU
105-67-9	2,4-Dimethylphenol	10	UUUU
111-91-1	bis(2-Chloroethoxy)Methane	10	UUUU
120-83-2	2,4-Dichlorophenol	10	UUUU
120-82-1	1,2,4-Trichlorobenzene	10	UUUU
91-20-3	Naphthalene	10	UUUU
106-47-8	4-Chloroaniline	10	UUUU
87-68-3	Hexachlorobutadiene	10	UUUU
59-50-7	4-Chloro-3-Methylphenol	10	UUUU
91-57-6	2-Methylnaphthalene	10	UUUU
77-47-4	Hexachlorocyclopentadiene	10	UUUU
88-06-2	2,4,6-Trichlorophenol	10	UUUU
95-95-4	2,4,5-Trichlorophenol	50	UUUU
91-58-7	2-Chloronaphthalene	10	UUUU
88-74-4	2-Nitroaniline	50	UUUU
131-11-3	Dimethylphthalate	10	UUUU
208-96-8	Acenaphthylene	10	UUUU
606-20-2	2,6-Dinitrotoluene	10	UUUU
99-09-2	3-Nitroaniline	50	UUUU
83-32-9	Acenaphthene	10	UU

FORM I SV-1

3/90

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW3-2-WO

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 646

SAS No.:

SDG No.: 23714

Matrix: (soil/water) WATER

Lab Sample ID: 23715

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: I1440

Level: (low/med) LOW

Date Received: 03/24/95

% Moisture: decanted: (Y/N)

Date Extracted: 03/29/95

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 04/04/95

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH:

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

Q

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
92-87-5	Benzidine	50	U
55-85-0	Benzoic Acid	50	U
100-51-6	Benzyl Alcohol	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)Phthalate	10	U
117-84-0	Di-n-Octyl Phthalate	10	U
205-99-2	Benzo(b)Fluoranthene	10	U
207-08-9	Benzo(k)Fluoranthene	10	U
50-32-8	Benzo(a)Pyrene	10	U
193-39-5	Indeno(1,2,3-cd)Pyrene	10	U
53-70-3	Dibenz(a,h)Anthracene	10	U
191-24-2	Benzo(g,h,i)Perylene	10	U

(1) - Cannot be separated from Diphenylamine
FORM I SV-2

3/90

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW3-2-WO

Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 646

SAS No.:

SDG No.: 23714

Matrix: (soil/water) WATER

Lab Sample ID: 23715

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: I1440

Level: (low/med) LOW

Date Received: 03/24/95

% Moisture: decanted: (Y/N)

Date Extracted: 03/29/95

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 04/04/95

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH:

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

Number TICs found: 1

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 12-34-22	Aldol Condensation Product	5.54	9	ABJN

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF WATER ANALYSIS FOR TENTATIVELY IDENTIFIED
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS

CLIENT	: NM-8000 NIAGARA FALLS AFB	UNITS	: UG/L
TEST NAME	: SEMI-VOLATILES	MATRIX	: WATER
SAMPLE ID LAB	: EE-95-23715	DATE RECEIVED	: 03/24/95
SAMPLE ID CLIENT	: NM8-MW3-2-WO-032495	DATE EXTRACTED	: 03/29/95
SDG #	: 23714	DATE ANALYZED	: 04/04/95
SAMPLE VOLUME	: 1000 ML	INJECTION VOLUME	: 2.0 UL
FINAL VOLUME	: 1000 UL	DILUTION FACTOR	: 1.0

9500.646

Total hydrocarbons
present as mass 57 3

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW3-3-WO

Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 646

SAS No.:

SDG No.: 23714

Matrix: (soil/water) WATER

Lab Sample ID: 23716

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: I1441

Level: (low/med) LOW

Date Received: 03/24/95

% Moisture: decanted: (Y/N)

Date Extracted: 03/29/95

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 04/04/95

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

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

CAS NO.

COMPOUND

Q

108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl) Ether	10	UU
95-57-8	2-Chlorophenol	10	UUU
541-73-1	1,3-Dichlorobenzene	10	UUUU
106-46-7	1,4-Dichlorobenzene	10	UUUUU
95-50-1	1,2-Dichlorobenzene	10	UUUUUU
95-48-7	2-Methylphenol	10	UUUUUUU
108-60-1	2,2'-oxybis(1-Chloropropane)	10	UUUUUUUU
106-44-5	4-Methylphenol	10	UUUUUUUUU
621-64-7	N-Nitroso-Di-n-Propylamine	10	UUUUUUUUUU
67-72-1	Hexachloroethane	10	UUUUUUUUUUU
98-95-3	Nitrobenzene	10	UUUUUUUUUUUU
78-59-1	Isophorone	10	UUUUUUUUUUUUU
88-75-5	2-Nitrophenol	10	UUUUUUUUUUUUUU
105-67-9	2,4-Dimethylphenol	10	UUUUUUUUUUUUUUU
111-91-1	bis(2-Chloroethoxy)Methane	10	UUUUUUUUUUUUUUUU
120-83-2	2,4-Dichlorophenol	10	UUUUUUUUUUUUUUUUU
120-82-1	1,2,4-Trichlorobenzene	10	UUUUUUUUUUUUUUUUUU
91-20-3	Naphthalene	10	UUUUUUUUUUUUUUUUUUU
106-47-8	4-Chloroaniline	10	UUUUUUUUUUUUUUUUUUUU
87-68-3	Hexachlorobutadiene	10	UUUUUUUUUUUUUUUUUUUUU
59-50-7	4-Chloro-3-Methylphenol	10	UUUUUUUUUUUUUUUUUUUUUU
91-57-6	2-Methylnaphthalene	10	UUUUUUUUUUUUUUUUUUUUUUU
77-47-4	Hexachlorocyclopentadiene	10	UUUUUUUUUUUUUUUUUUUUUUU
88-06-2	2,4,6-Trichlorophenol	10	UUUUUUUUUUUUUUUUUUUUUUUU
95-95-4	2,4,5-Trichlorophenol	50	UUUUUUUUUUUUUUUUUUUUUUUUU
91-58-7	2-Chloronaphthalene	10	UUUUUUUUUUUUUUUUUUUUUUUUU
88-74-4	2-Nitroaniline	50	UUUUUUUUUUUUUUUUUUUUUUUUU
131-11-3	Dimethylphthalate	10	UUUUUUUUUUUUUUUUUUUUUUUUU
208-96-8	Acenaphthylene	10	UUUUUUUUUUUUUUUUUUUUUUUUU
606-20-2	2,6-Dinitrotoluene	10	UUUUUUUUUUUUUUUUUUUUUUUUU
99-09-2	3-Nitroaniline	50	UUUUUUUUUUUUUUUUUUUUUUUUU
83-32-9	Acenaphthene	10	UUUUUUUUUUUUUUUUUUUUUUUUU

FORM I SV-1

3/90

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW3-3-WO

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 646

SAS No.:

SDG No.: 23714

Matrix: (soil/water) WATER

Lab Sample ID: 23716

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: I1441

Level: (low/med) LOW

Date Received: 03/24/95

% Moisture: decanted: (Y/N)

Date Extracted: 03/29/95

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 04/04/95

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH:

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

CAS NO.

COMPOUND

Q

51-28-5-----	2,4-Dinitrophenol	50	U
100-02-7-----	4-Nitrophenol	50	U
132-64-9-----	Dibenzofuran	10	U
121-14-2-----	2,4-Dinitrotoluene	10	U
84-66-2-----	Diethylphthalate	10	U
7005-72-3-----	4-Chlorophenyl-phenylether	10	U
86-73-7-----	Fluorene	10	U
100-01-6-----	4-Nitroaniline	50	U
534-52-1-----	4,6-Dinitro-2-methylphenol	50	U
86-30-6-----	N-Nitrosodiphenylamine (1)	10	U
101-55-3-----	4-Bromophenyl-phenylether	10	U
118-74-1-----	Hexachlorobenzene	10	U
87-86-5-----	Pentachlorophenol	50	U
85-01-8-----	Phenanthrene	10	U
120-12-7-----	Anthracene	10	U
86-74-8-----	Carbazole	10	U
84-74-2-----	Di-n-Butylphthalate	10	U
206-44-0-----	Fluoranthene	10	U
92-87-5-----	Benzidine	50	U
55-85-0-----	Benzoic Acid	50	U
100-51-6-----	Benzyl Alcohol	10	U
129-00-0-----	Pyrene	10	U
85-68-7-----	Butylbenzylphthalate	10	U
91-94-1-----	3,3'-Dichlorobenzidine	20	U
56-55-3-----	Benzo(a)Anthracene	10	U
218-01-9-----	Chrysene	10	U
117-81-7-----	bis(2-Ethylhexyl) Phthalate	10	U
117-84-0-----	Di-n-Octyl Phthalate	10	U
205-99-2-----	Benzo(b) Fluoranthene	10	U
207-08-9-----	Benzo(k) Fluoranthene	10	U
50-32-8-----	Benzo(a) Pyrene	10	U
193-39-5-----	Indeno(1,2,3-cd) Pyrene	10	U
53-70-3-----	Dibenz(a,h) Anthracene	10	U
191-24-2-----	Benzo(g,h,i) Perylene	10	U

(1) - Cannot be separated from Diphenylamine
FORM I SV-2

3/90

1F
 SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW3-3-WO

Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 646

SAS No.:

SDG No.: 23714

Matrix: (soil/water) WATER

Lab Sample ID: 23716

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: I1441

Level: (low/med) LOW

Date Received: 03/24/95

% Moisture: decanted: (Y/N)

Date Extracted: 03/29/95

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 04/04/95

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH:

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

Number TICs found: 2

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 12-34-22	Aldol Condensation Product	5.53	7	ABJN
2.	UNKNOWN	16.40	27	J

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF WATER ANALYSIS FOR TENTATIVELY IDENTIFIED
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS

CLIENT	: NM-8000 NIAGARA FALLS AFB	UNITS	: UG/L
TEST NAME	: SEMI-VOLATILES	MATRIX	: WATER
SAMPLE ID LAB	: EE-95-23716	DATE RECEIVED	: 03/24/95
SAMPLE ID CLIENT	: NM8-MW3-3-WO-032495	DATE EXTRACTED	: 03/29/95
SDG #	: 23714	DATE ANALYZED	: 04/04/95
SAMPLE VOLUME	: 1000 ML	INJECTION VOLUME	: 2.0 UL
FINAL VOLUME	: 1000 UL	DILUTION FACTOR	: 1.0

9500.646

Total hydrocarbons
present as mass 57 5

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW3-3-WORE

Name: E & E INC. Contract: _____
 Lab Code: EANDE Case No.: 646 SAS No.: _____ SDG No.: 23714
 Matrix: (soil/water) WATER Lab Sample ID: 23716RE
 Sample wt/vol: 1000 (g/mL) ML Lab File ID: G0009
 Level: (low/med) LOW Date Received: 03/24/95
 % Moisture: decanted: (Y/N) Date Extracted: 04/11/95
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/14/95
 Injection Volume: 2.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____

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

Q

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl) Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U

FORM I SV-1

3/90

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW3-3-WORE

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 646

SAS No.:

SDG No.: 23714

Matrix: (soil/water) WATER

Lab Sample ID: 23716RE

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: G0009

Level: (low/med) LOW

Date Received: 03/24/95

% Moisture: decanted: (Y/N)

Date Extracted: 04/11/95

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 04/14/95

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

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

Q

CAS NO.

COMPOUND

51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
92-87-5	Benzidine	50	U
55-85-0	Benzoic Acid	50	U
100-51-6	Benzyl Alcohol	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo (a) Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl) Phthalate	10	U
117-84-0	Di-n-Octyl Phthalate	10	U
205-99-2	Benzo (b) Fluoranthene	10	U
207-08-9	Benzo (k) Fluoranthene	10	U
50-32-8	Benzo (a) Pyrene	10	U
193-39-5	Indeno (1,2,3-cd) Pyrene	10	U
53-70-3	Dibenz (a,h) Anthracene	10	U
191-24-2	Benzo (g,h,i) Perylene	10	U

(1) - Cannot be separated from Diphenylamine
FORM I SV-2

3/90

101

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW3-3-WORE

Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 646

SAS No.:

SDG No.: 23714

Matrix: (soil/water) WATER

Lab Sample ID: 23716RE

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: G0009

Level: (low/med) LOW

Date Received: 03/24/95

% Moisture: decanted: (Y/N)

Date Extracted: 04/11/95

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 04/14/95

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs found: 2

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 12-34-22	Aldol Condensation Product	3.74	7	ABJN
2.	UNKNOWN	26.74	48	J

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF WATER ANALYSIS FOR TENTATIVELY IDENTIFIED
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS

CLIENT	: NM-8000 NIAGARA FALLS AFB	UNITS	: UG/L
TEST NAME	: SEMI-VOLATILES	MATRIX	: WATER
SAMPLE ID LAB	: EE-95-23716 RE	DATE RECEIVED	: 03/24/95
SAMPLE ID CLIENT	: NM8-MW3-3-WO-032495	DATE EXTRACTED	: 04/11/95
SDG #	: 23714	DATE ANALYZED	: 04/14/95
SAMPLE VOLUME	: 1000 ML	INJECTION VOLUME	: 2.0 UL
FINAL VOLUME	: 1000 UL	DILUTION FACTOR	: 1.0

9500.646

Total hydrocarbons
present as mass 57 10

TEST CODE :WPCB 1

JOB NUMBER :9500.646

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NM-8000 NIAGARA FALLS AFB

TEST NAME : PCB

UNITS : UG/L

SAMPLE ID LAB : EE-95-23714

MATRIX: WATER

SAMPLE ID CLIENT: NM8-MW3-1-WO-032395

DATE RECEIVED : 03/24/95

SDG # : 23714

DATE EXTRACTED: 03/29/95

DATE ANALYZED : 04/04/95

SAMPLE VOLUME: 1000 mL

INJECTION VOLUME: 4 uL

FINAL VOLUME : 1.0 mL

DILUTION FACTOR : 1.0

PARAMETER	RESULTS	Q	QNT. LIMIT
PCB-1242	ND		0.50
PCB-1254	0.61		0.50
PCB-1221	ND		0.50
PCB-1232	ND		0.50
PCB-1248	ND		0.50
PCB-1260	ND		0.50
PCB-1016	ND		0.50

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

B = ALSO PRESENT IN BLANK

N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE

TEST CODE :WPCB 1

JOB NUMBER :9500.646

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NM-8000 NIAGARA FALLS AFB

TEST NAME : PCB

UNITS : UG/L

SAMPLE ID LAB : EE-95-23715

MATRIX: WATER

SAMPLE ID CLIENT: NM8-MW3-2-WO-032395

DATE RECEIVED : 03/24/95

SDG # : 23714

DATE EXTRACTED: 03/29/95

DATE ANALYZED : 04/05/95

SAMPLE VOLUME: 1000 mL

INJECTION VOLUME: 4 uL

FINAL VOLUME : 1.0 mL

DILUTION FACTOR : 1.0

PARAMETER	RESULTS	Q	QNT. LIMIT
PCB-1242	ND		0.50
PCB-1254	ND		0.50
PCB-1221	ND		0.50
PCB-1232	ND		0.50
PCB-1248	ND		0.50
PCB-1260	ND		0.50
PCB-1016	ND		0.50

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

B = ALSO PRESENT IN BLANK

N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE

TEST CODE :WPCB 1

JOB NUMBER :9500.646

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NM-8000 NIAGARA FALLS AFB

TEST NAME : PCB

UNITS : UG/L

SAMPLE ID LAB : EE-95-23716

MATRIX: WATER

SAMPLE ID CLIENT: NM8-MW3-3-WO-032395

DATE RECEIVED : 03/24/95

SDG # : 23714

DATE EXTRACTED: 03/29/95

DATE ANALYZED : 04/04/95

SAMPLE VOLUME: 1000 mL

INJECTION VOLUME: 4 uL

FINAL VOLUME : 1.0 mL

DILUTION FACTOR : 1.0

PARAMETER	RESULTS	Q	QNT. LIMIT
PCB-1242	ND		0.50
PCB-1254	ND		0.50
PCB-1221	ND		0.50
PCB-1232	ND		0.50
PCB-1248	ND		0.50
PCB-1260	ND		0.50
PCB-1016	ND		0.50

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

B = ALSO PRESENT IN BLANK

N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE

JOB NUMBER : 9500.646

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NM-8000 NIAGARA FALLS AFB

SAMPLE ID LAB : EE-95-23714

MATRIX: WATER

SAMPLE ID CLIENT: NM8-MW3-1-WO-032395

DATE RECEIVED : 03/24/95

SDG # : 23714

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Arsenic	ND		5.0	UG/L
Lead	26		5.0	UG/L
Antimony	ND		60	UG/L
Beryllium	ND		5.0	UG/L
Cadmium	ND		5.0	UG/L
Chromium Total	ND		10	UG/L
Copper	22		20	UG/L
Nickel	ND		20	UG/L
Silver	ND		10	UG/L
Zinc	75		10	UG/L
Selenium	ND		10	UG/L
Thallium	ND		5.0	UG/L
Mercury	ND		0.20	UG/L

QUALIFIERS: C = COMMENT
 J = ESTIMATED VALUE

ND = NOT DETECTED

JOB NUMBER :9500.646

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NM-8000 NIAGARA FALLS AFB

SAMPLE ID LAB :EE-95-23715

MATRIX: WATER

SAMPLE ID CLIENT: NM8-MW3-2-WO-032395

DATE RECEIVED : 03/24/95

SDG # : 23714

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Arsenic	ND		5.0	UG/L
Lead	54		5.0	UG/L
Antimony	ND		60	UG/L
Beryllium	ND		5.0	UG/L
Cadmium	ND		5.0	UG/L
Chromium Total	ND		10	UG/L
Copper	ND		20	UG/L
Nickel	ND		20	UG/L
Silver	ND		10	UG/L
Zinc	130		10	UG/L
Selenium	ND		5.0	UG/L
Thallium	ND		5.0	UG/L
Mercury	ND		0.20	UG/L

QUALIFIERS: C = COMMENT
 J = ESTIMATED VALUE

ND = NOT DETECTED

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JOB NUMBER :9500.646

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NM-8000 NIAGARA FALLS AFB

SAMPLE ID LAB :EE-95-23716

MATRIX: WATER

SAMPLE ID CLIENT: NM8-MW3-3-WO-032395

DATE RECEIVED : 03/24/95

SDG # : 23714

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
-----	-----	-	-----	-----
Arsenic	ND		5.0	UG/L
Lead	26		5.0	UG/L
Antimony	ND		60	UG/L
Beryllium	ND		5.0	UG/L
Cadmium	ND		5.0	UG/L
Chromium Total	ND		10	UG/L
Copper	ND		20	UG/L
Nickel	ND		20	UG/L
Silver	ND		10	UG/L
Zinc	540		10	UG/L
Selenium	ND		5.0	UG/L
Thallium	ND		5.0	UG/L
Mercury	ND		0.20	UG/L

QUALIFIERS: C = COMMENT
 J = ESTIMATED VALUE

ND = NOT DETECTED

JOB NUMBER : 9500.646

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NM-8000 NIAGARA FALLS AFB

SAMPLE ID LAB : EE-95-23725

MATRIX: WATER

SAMPLE ID CLIENT: NM8-MW3-4-WO-032395

DATE RECEIVED : 03/24/95

SDG # : 23714

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Arsenic	ND		5.0	UG/L
Lead	ND		5.0	UG/L
Antimony	ND		60	UG/L
Beryllium	ND		5.0	UG/L
Cadmium	ND		5.0	UG/L
Chromium Total	ND		10	UG/L
Copper	ND		20	UG/L
Nickel	ND		20	UG/L
Silver	ND		10	UG/L
Zinc	21		10	UG/L
Selenium	ND		5.0	UG/L
Thallium	ND		5.0	UG/L
Mercury	ND		0.20	UG/L

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

JOB NUMBER : 9500.646

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NM-8000 NIAGARA FALLS AFB

SAMPLE ID LAB : EE-95-23726

MATRIX: WATER

SAMPLE ID CLIENT: NM8-MW3-5A-WM-032395

DATE RECEIVED : 03/24/95

SDG # : 23714

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Arsenic	ND		5.0	UG/L
Lead	6.9		5.0	UG/L
Antimony	ND		60	UG/L
Beryllium	ND		5.0	UG/L
Cadmium	ND		5.0	UG/L
Chromium Total	ND		10	UG/L
Copper	ND		20	UG/L
Nickel	ND		20	UG/L
Silver	ND		10	UG/L
Zinc	28		10	UG/L
Selenium	ND		5.0	UG/L
Thallium	ND		5.0	UG/L
Mercury	ND		0.20	UG/L

QUALIFIERS: C = COMMENT
 J = ESTIMATED VALUE

ND = NOT DETECTED

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F-390

JOB NUMBER : 9500.646

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NM-8000 NIAGARA FALLS AFB

SAMPLE ID LAB : EE-95-23727

MATRIX: WATER

SAMPLE ID CLIENT: NM8-MW3-6A-WO-032395

DATE RECEIVED : 03/24/95

SDG # : 23714

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Arsenic	17		5.0	UG/L
Lead	100		5.0	UG/L
Antimony	ND		60	UG/L
Beryllium	ND		5.0	UG/L
Cadmium	ND		5.0	UG/L
Chromium Total	23		10	UG/L
Copper	33		20	UG/L
Nickel	41		20	UG/L
Silver	ND		10	UG/L
Zinc	1700		10	UG/L
Selenium	ND		5.0	UG/L
Thallium	ND		5.0	UG/L
Mercury	ND		0.20	UG/L

QUALIFIERS: C = COMMENT
 J = ESTIMATED VALUE

ND = NOT DETECTED

CHAIN-OF-CUSTODY RECORD

Project No.: NM 7023 CE 2092 CDA 2050			Project Name: NIAGARA FALLS IAP			Project Manager: J. BASTIEN			REMARKS Temp Blank Count #1 Temp Blank Count #2											
Samplers: (Signatures) <i>[Signature]</i>			Field Team Leader: Craig Taylor																	
STATION NUMBER	DATE 1995	TIME	SAMPLE TYPE			SAMPLE INFORMATION EXPECTED COMPOUNDS (Concentration)*	STATION LOCATION	NUMBER OF CON-TAINERS	Acid Rainfall Base Rainfall											
			COMP	GRAB	AIR															
	24 May	0814	X			Acid Rainfall (Low)	MW13-5A	1	✓			NM 9023								
	"	0900	X			" " "	MW13-3	1	✓			NM 9023								
	"	1250	X			" " "	MW14-2	1	✓			NM 8060								
	"	1255	Y			" " "	MW14-3	1	✓			NM 8060								
	"	1320	Y			" " "	MW13-6	1	✓			CE 2092								
	"	1350	Y			" " "	MW13-6D	1	✓			CE 2092								
	"	1340	Y			" " "	MW13-3	1	✓			NM 9023								
	"	1418	Y			" " "	MWB-1	1	✓			NM 8060								
	"	1426	X			" " "	MWB-4	1	✓			NM 8060								
	"	1445	X			Acid Rainfall (Low)	MW12-1	1	✓			NM 8060								
	"	1502	X			Base Rainfall (Low)	MW1-7	1	✓			CE 2092								
	"	0911	X			Base Rainfall/Acid Rainfall (Low)	SD3-1	1	✓			NM 9023								
	"	"	X			" " " " "	" (D.D.)	1	✓	✓		Field Duplicate NM 9023								
	"	"	X			" " " " "	" 115/450	1	✓	✓		NM 9023 115/450								
Relinquished By: (Signature) <i>[Signature]</i>			Date/Time 24 May 95 1735			Received By: (Signature) <i>[Signature]</i>			Date/Time			Received By: (Signature)			Date/Time			Ship Via		
Relinquished By: (Signature)			Date/Time			Received By: (Signature)			Date/Time			Received By: (Signature)			Date/Time			Ship Via		
Relinquished By: (Signature)			Date/Time			Received For Laboratory By: (Signature) <i>[Signature]</i>			Date/Time			Received For Laboratory By: (Signature)			Date/Time			Ship Via		

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files
 * See CONCENTRATION RANGE on back of form.

recycled paper

F-393

ecology and environment

To be included with all lab data and with each workplan

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE IDENTIFICATION AND ANALYTICAL REQUIREMENT SUMMARY

Customer Sample Code	Laboratory Sample Code	Analytical Requirements					
		*VOA GC/MS Method #	*BNA GC/MS Method #	*VOA GC Method #	*Pest PCBs Method #	*Metals	*Other
SD3-1-SD	26718		8270				
SD3-1-SD	26719						
MW03-03-WD	26720						
MW03-5A-WD	26721						
MW13-3-WD	26722						

TEST CODE :WAP_0A1

JOB NUMBER :9501.143

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NM-9000 RFI SITE 3 - NFAFB AFRES

TEST NAME : 8270 ACID PHENOL UNITS : UG/L

SAMPLE ID LAB : EE-95-26720 MATRIX: WATER

SAMPLE ID CLIENT: NM9-MW03-03-WO-052495

PARAMETER	RESULTS	Q	QNT. LIMIT
phenol	ND		10
2-chlorophenol	ND		10
2-nitrophenol	ND		10
2,4-dimethylphenol	ND		10
2,4-dichlorophenol	ND		10
4-chloro-3-methylphenol	ND		10
2,4,6-trichlorophenol	ND		10
2,4-dinitrophenol	ND		50
4-nitrophenol	ND		50
4,6-dinitro-2-methylphenol	ND		50
pentachlorophenol	ND		50
2-methylphenol	ND		10
4-methylphenol	ND		10
benzoic acid	ND		50
2,4,5-trichlorophenol	ND		50

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

B = ALSO PRESENT IN BLANK

N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE

A = PHENOMENON OF METHODOLOGY WITH ACID PRESERVATION

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF WATER ANALYSIS FOR TENTATIVELY IDENTIFIED
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS

(all results in ug/L)

9501.143

E & E Lab.
No. 95- 26720

Analysis
Date 05/25/95

Compound Sample
 Identity NM9-MW03-03-WO-052495

Trichloroethene	
cas# 79016 (1.77)**	88.0
Aldol condensation	
product (3.66)	11.0 B
Unknown (8.59)	9.00
Unknown (10.27)	6.00
Unknown (11.11)	11.0
Unknown (11.30)	5.00
Unknown aminoacid (13.59)	13.0
Unknown carboxylic acid (18.76)	13.0
Unknown carboxylic acid (21.61)	4.00
Unknown carboxylic acid (24.3)	6.00
Unknown (26.56)	91.0
Unknown (27.56)	4.00
Unknown hydrocarbon (30.39)	6.00
Unknown hydrocarbon (32.36)	6.00
Unknown hydrocarbon (33.29)	5.00

Total Hydrocarbons Present as m/z 57 - 20.4

** Values are approximate retention times, in minutes.

B = Present in associated method blank

TEST CODE :WAP_0A1

JOB NUMBER :9501.143

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NM-9000 RFI SITE 3 - NFAFB AFRES
TEST NAME : 8270 ACID PHENOL UNITS : UG/L
SAMPLE ID LAB : EE-95-26721 MATRIX: WATER
SAMPLE ID CLIENT: NM9-MW03-5A-WO-052495

PARAMETER	RESULTS	Q	QNT. LIMIT
phenol	ND		10
2-chlorophenol	ND		10
2-nitrophenol	ND		10
2,4-dimethylphenol	ND		10
2,4-dichlorophenol	ND		10
4-chloro-3-methylphenol	ND		10
2,4,6-trichlorophenol	ND		10
2,4-dinitrophenol	ND		50
4-nitrophenol	ND		50
4,6-dinitro-2-methylphenol	ND		50
pentachlorophenol	ND		50
2-methylphenol	ND		10
4-methylphenol	ND		10
benzoic acid	ND		50
2,4,5-trichlorophenol	ND		50

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE
A = PHENOMENON OF METHODOLOGY WITH ACID PRESERVATION

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF WATER ANALYSIS FOR TENTATIVELY IDENTIFIED
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS

(all results in ug/L)

9501.143

E & E Lab. No. 95-	26721
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Analysis Date	05/25/95
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Compound	Sample Identity	NM9-MW03-5A-WO-052495
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Aldol condensation product (3.66)**	5.00 B
Caprolactam cas# 105602 (13.46)	19.0

Total Hydrocarbons Present as m/z 57 -	6.79
--	------

** Values are approximate retention times, in minutes.

B = Present in associated method blank

TEST CODE :WAP_0A1

JOB NUMBER :9501.143

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NM-9000 RFI SITE 3 - NFAFB AFRES
TEST NAME : 8270 ACID PHENOL UNITS : UG/L
SAMPLE ID LAB : METHOD BLANK (3146/3147) MATRIX: WATER

PARAMETER	RESULTS	Q	QNT. LIMIT
phenol	ND		10
2-chlorophenol	ND		10
2-nitrophenol	ND		10
2,4-dimethylphenol	ND		10
2,4-dichlorophenol	ND		10
4-chloro-3-methylphenol	ND		10
2,4,6-trichlorophenol	ND		10
2,4-dinitrophenol	ND		50
4-nitrophenol	ND		50
4,6-dinitro-2-methylphenol	ND		50
pentachlorophenol	ND		50
2-methylphenol	ND		10
4-methylphenol	ND		10
benzoic acid	ND		50
2,4,5-trichlorophenol	ND		50

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE
A = PHENOMENON OF METHODOLOGY WITH ACID PRESERVATION

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF WATER ANALYSIS FOR TENTATIVELY IDENTIFIED
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS

(all results in ug/L)

9501.143

E & E Lab. No. 95-	Method Blank (3146/3147)
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Analysis Date	05/25/95
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Compound	Sample Identity
----------	--------------------

Aldol condensation product cas# 123422 (3.68)**	5.00
--	------

Total Hydrocarbons Present as m/z 57 - 7.18

** Values are approximate retention times, in minutes.

TEST CODE : SBNA0A1

JOB NUMBER : 9501.143

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NM-9000 RFI SITE 3 - NFAFB AFRES

RESULTS IN DRY WEIGHT

%SOLIDS : 54 %

TEST NAME : 8270 BNA

UNITS : UG/KG

SAMPLE ID LAB : EE-95-26718

MATRIX : SOLID

SAMPLE ID CLIENT: NM9-SD3-1-SO-052495

PARAMETER	RESULTS	Q	QNT. LIMIT
phenol	ND		610
bis(2-chloroethyl) ether	ND		610
2-chlorophenol	ND		610
1,3-dichlorobenzene	ND		610
1,4-dichlorobenzene	ND		610
benzyl alcohol	ND		610
1,2-dichlorobenzene	ND		610
2-methylphenol	ND		610
bis(2-chloroisopropyl) ether	ND		610
4-methylphenol	ND		610
n-nitroso-di-n-propylamine	ND		610
hexachloroethane	ND		610
nitrobenzene	ND		610
isophorone	ND		610
2-nitrophenol	ND		610
2,4-dimethylphenol	ND		610
benzoic acid	ND		3000
bis(2-chloroethoxy) methane	ND		610
2,4-dichlorophenol	ND		610
1,2,4-trichlorobenzene	ND		610
naphthalene	ND		610
4-chloroaniline	ND		610
hexachlorobutadiene	ND		610
4-chloro-3-methylphenol	ND		610
2-methylnaphthalene	ND		610
hexachlorocyclopentadiene	ND		610
2,4,6-trichlorophenol	ND		610
2,4,5-trichlorophenol	ND		3000
2-chloronaphthalene	ND		610
2-nitroaniline	ND		3000
dimethylphthalate	ND		610
acenaphthylene	ND		610
3-nitroaniline	ND		3000
acenaphthene	ND		610
2,4-dinitrophenol	ND		3000

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

B = ALSO PRESENT IN BLANK

X = EXCEEDS CALIBRATION LIMIT

N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE

A = PHENOMENON OF METHODOLOGY WITH ACID PRESERVATION

TEST CODE : SBNA0A1

JOB NUMBER : 9501.143

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NM-9000 RFI SITE 3 - NFAFB AFRES

RESULTS IN DRY WEIGHT %SOLIDS : 54 %

TEST NAME : 8270 BNA UNITS : UG/KG

SAMPLE ID LAB : EE-95-26718 MATRIX : SOLID

SAMPLE ID CLIENT: NM9-SD3-1-SO-052495

PARAMETER	RESULTS	Q	QNT. LIMIT
4-nitrophenol	ND		3000
dibenzofuran	ND		610
2,4-Dinitrotoluene	ND		610
2,6-Dinitrotoluene	ND		610
diethylphthalate	2400		610
4-chlorophenylphenylether	ND		610
fluorene	ND		610
4-nitroaniline	ND		3000
4,6-dinitro-2-methylphenol	ND		3000
n-nitrosodiphenylamine	ND		610
4-bromophenylphenylether	ND		610
hexachlorobenzene	ND		610
pentachlorophenol	ND		3000
phenanthrene	84	J	610
anthracene	ND		610
fluoranthene	170	J	610
di-n-butylphthalate	ND		610
pyrene	150	J	610
butylbenzylphthalate	ND		610
3,3'-dichlorobenzidine	ND		1200
benzo(a)anthracene	120	J	610
bis(2-ethylhexyl)phthalate	110	J	610
chrysene	120	J	610
di-n-octylphthalate	ND		610
benzo(b)fluoranthene	200	J	610
benzo(k)fluoranthene	ND		610
benzo(a)pyrene	100	J	610
indeno(1,2,3-cd)pyrene	78	J	610
dibenzo(a,h)anthracene	ND		610
benzo(ghi)perylene	62	J	610

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

B = ALSO PRESENT IN BLANK

X = EXCEEDS CALIBRATION LIMIT

N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE

A = PHENOMENON OF METHODOLOGY WITH ACID PRESERVATION

RESULTS OF SOIL ANALYSIS FOR TENTATIVELY IDENTIFIED
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS

(all results in ug/kg as received)

9501.143

E & E Lab.	
No. 95-	26718

Analysis	
Date	05/31/95

Compound	Sample Identity	NM9-SD3-1-SO-052495
----------	-----------------	---------------------

Aldol condensation	
product cas# 123422 (4.29)**	12800 B
Unknown (5.82)	600 B
Unknown (6.60)	333 B
Unknown (7.65)	128 B
Unknown (7.81)	750 B
Unknown (9.25)	500
Unknown carboxylic acid (21.67)	361
Unknown carboxylic acid (24.09)	402
Unknown carboxylic acid (24.39)	406
Unknown (25.28)	200
Unknown (28.42)	550
Unknown (29.44)	200
Unknown hydrocarbon (30.43)	507
Unknown hydrocarbon (32.38)	517
Unknown hydrocarbon (35.94)	433
Unknown (36.14)	167
Unknown oxygenated hydrocarbon (37.21)	150
Unknown oxygenated hydrocarbon (38.06)	633
Unknown (38.59)	167
Unknown (39.15)	217
Unknown (40.96)	200

Total Hydrocarbons Present as m/z 57 - 763

** Values are approximate retention times, in minutes.

TEST CODE : SBNA0A1

JOB NUMBER : 9501.143

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NM-9000 RFI SITE 3 - NFAFB AFRES

RESULTS IN DRY WEIGHT

%SOLIDS : 64 %

TEST NAME : 8270 BNA

UNITS : UG/KG

SAMPLE ID LAB : EE-95-26719

MATRIX : SOLID

SAMPLE ID CLIENT: NM9-SD3-1-SD-052495

PARAMETER	RESULTS	Q	QNT. LIMIT
phenol	ND		520
bis(2-chloroethyl) ether	ND		520
2-chlorophenol	ND		520
1,3-dichlorobenzene	ND		520
1,4-dichlorobenzene	ND		520
benzyl alcohol	ND		520
1,2-dichlorobenzene	ND		520
2-methylphenol	ND		520
bis(2-chloroisopropyl) ether	ND		520
4-methylphenol	ND		520
n-nitroso-di-n-propylamine	ND		520
hexachloroethane	ND		520
nitrobenzene	ND		520
isophorone	ND		520
2-nitrophenol	ND		520
2,4-dimethylphenol	ND		520
benzoic acid	ND		2500
bis(2-chloroethoxy) methane	ND		520
2,4-dichlorophenol	ND		520
1,2,4-trichlorobenzene	ND		520
naphthalene	ND		520
4-chloroaniline	ND		520
hexachlorobutadiene	ND		520
4-chloro-3-methylphenol	ND		520
2-methylnaphthalene	ND		520
hexachlorocyclopentadiene	ND		520
2,4,6-trichlorophenol	ND		520
2,4,5-trichlorophenol	ND		2500
2-chloronaphthalene	ND		520
2-nitroaniline	ND		2500
dimethylphthalate	ND		520
acenaphthylene	ND		520
3-nitroaniline	ND		2500
acenaphthene	ND		520
2,4-dinitrophenol	ND		2500

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

B = ALSO PRESENT IN BLANK

X = EXCEEDS CALIBRATION LIMIT

N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE

A = PHENOMENON OF METHODOLOGY WITH ACID PRESERVATION

TEST CODE : SBNA0A1

JOB NUMBER : 9501.143

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NM-9000 RFI SITE 3 - NFAFB AFRES

RESULTS IN DRY WEIGHT %SOLIDS : 64 %

TEST NAME : 8270 BNA UNITS : UG/KG

SAMPLE ID LAB : EE-95-26719 MATRIX : SOLID

SAMPLE ID CLIENT: NM9-SD3-1-SD-052495

PARAMETER	RESULTS	Q	QNT. LIMIT
4-nitrophenol	ND		2500
dibenzofuran	ND		520
2,4-Dinitrotoluene	ND		520
2,6-Dinitrotoluene	ND		520
diethylphthalate	ND		520
4-chlorophenylphenylether	ND		520
fluorene	ND		520
4-nitroaniline	ND		2500
4,6-dinitro-2-methylphenol	ND		2500
n-nitrosodiphenylamine	ND		520
4-bromophenylphenylether	ND		520
hexachlorobenzene	ND		520
pentachlorophenol	ND		2500
phenanthrene	ND		520
anthracene	ND		520
fluoranthene	58	J	520
di-n-butylphthalate	ND		520
pyrene	ND		520
butylbenzylphthalate	ND		520
3,3'-dichlorobenzidine	ND		1000
benzo(a)anthracene	ND		520
bis(2-ethylhexyl)phthalate	ND		520
chrysene	ND		520
di-n-octylphthalate	ND		520
benzo(b)fluoranthene	ND		520
benzo(k)fluoranthene	ND		520
benzo(a)pyrene	ND		520
indeno(1,2,3-cd)pyrene	ND		520
dibenzo(a,h)anthracene	ND		520
benzo(ghi)perylene	ND		520

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

B = ALSO PRESENT IN BLANK

X = EXCEEDS CALIBRATION LIMIT

N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE

A = PHENOMENON OF METHODOLOGY WITH ACID PRESERVATION

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF SOIL ANALYSIS FOR TENTATIVELY IDENTIFIED
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS

(all results in ug/kg as received)

9501.143

E & E Lab.
No. 95- 26719

Analysis
Date 05/31/95

Compound Sample
 Identity NM9-SD3-1-SD-052495

Aldol condensation	
product cas# 123422 (4.34)**	10600 B
Unknown (6.61)	183 B
Unknown (6.92)	117
Unknown carboxylic	
acid (21.68)	66.7
Unknown (21.79)	167
Unknown carboxylic	
acid (24.10)	100
Unknown carboxylic	
acid (24.38)	406
Unknown (25.26)	66.7
Unknown carboxylic	
acid (26.58)	117
Unknown (26.92)	283
Unknown hydrocarbon (29.38)	66.7
Unknown (29.96)	66.7
Unknown hydrocarbon (30.42)	66.7
Unknown hydrocarbon (32.38)	150
Unknown hydrocarbon (35.93)	599
Unknown (38.13)	66.7

Total Hydrocarbons Present as m/z 57 - 367

** Values are approximate retention times, in minutes.

B = Present in associated method blank

TEST CODE : SBNA0A1

JOB NUMBER : 9501.143

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NM-9000 RFI SITE 3 - NFAFB AFRES
TEST NAME : 8270 BNA UNITS : UG/KG
SAMPLE ID LAB : METHOD BLANK MATRIX : SOLID

PARAMETER	RESULTS	Q	QNT. LIMIT
phenol	ND		330
bis(2-chloroethyl) ether	ND		330
2-chlorophenol	ND		330
1,3-dichlorobenzene	ND		330
1,4-dichlorobenzene	ND		330
benzyl alcohol	ND		330
1,2-dichlorobenzene	ND		330
2-methylphenol	ND		330
bis(2-chloroisopropyl) ether	ND		330
4-methylphenol	ND		330
n-nitroso-di-n-propylamine	ND		330
hexachloroethane	ND		330
nitrobenzene	ND		330
isophorone	ND		330
2-nitrophenol	ND		330
2,4-dimethylphenol	ND		330
benzoic acid	ND		1600
bis(2-chloroethoxy) methane	ND		330
2,4-dichlorophenol	ND		330
1,2,4-trichlorobenzene	ND		330
naphthalene	ND		330
4-chloroaniline	ND		330
hexachlorobutadiene	ND		330
4-chloro-3-methylphenol	ND		330
2-methylnaphthalene	ND		330
hexachlorocyclopentadiene	ND		330
2,4,6-trichlorophenol	ND		330
2,4,5-trichlorophenol	ND		1600
2-chloronaphthalene	ND		330
2-nitroaniline	ND		1600
dimethylphthalate	ND		330
acenaphthylene	ND		330
3-nitroaniline	ND		1600
acenaphthene	ND		330
2,4-dinitrophenol	ND		1600

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
X = EXCEEDS CALIBRATION LIMIT
N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE
A = PHENOMENON OF METHODOLOGY WITH ACID PRESERVATION

TEST CODE : SBNA0A1

JOB NUMBER : 9501.143

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NM-9000 RFI SITE 3 - NFAFB AFRES

TEST NAME : 8270 BNA

UNITS : UG/KG

SAMPLE ID LAB : METHOD BLANK

MATRIX : SOLID

PARAMETER	RESULTS	Q	QNT. LIMIT
4-nitrophenol	ND		1600
dibenzofuran	ND		330
2,4-Dinitrotoluene	ND		330
2,6-Dinitrotoluene	ND		330
diethylphthalate	ND		330
4-chlorophenylphenylether	ND		330
fluorene	ND		330
4-nitroaniline	ND		1600
4,6-dinitro-2-methylphenol	ND		1600
n-nitrosodiphenylamine	ND		330
4-bromophenylphenylether	ND		330
hexachlorobenzene	ND		330
pentachlorophenol	ND		1600
phenanthrene	ND		330
anthracene	ND		330
fluoranthene	ND		330
di-n-butylphthalate	ND		330
pyrene	ND		330
butylbenzylphthalate	ND		330
3,3'-dichlorobenzidine	ND		660
benzo(a)anthracene	ND		330
bis(2-ethylhexyl)phthalate	ND		330
chrysene	ND		330
di-n-octylphthalate	ND		330
benzo(b)fluoranthene	ND		330
benzo(k)fluoranthene	ND		330
benzo(a)pyrene	ND		330
indeno(1,2,3-cd)pyrene	ND		330
dibenzo(a,h)anthracene	ND		330
benzo(ghi)perylene	ND		330

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

B = ALSO PRESENT IN BLANK

X = EXCEEDS CALIBRATION LIMIT

N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE

A = PHENOMENON OF METHODOLOGY WITH ACID PRESERVATION

RESULTS OF SOIL ANALYSIS FOR TENTATIVELY IDENTIFIED
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS

(all results in ug/kg)

9501.143

E & E Lab. Method
No. 95- Blank

Analysis Date
Date 05/30/95

Compound Sample
 Identity

Aldol condensation	
product cas# 123422 (4.24)**	17700
Unknown (4.37)	100
Unknown (4.58)	834
Unknown (5.66)	83.4
Unknown (5.81)	800
Trichloroethane isomer (5.90)	66.7
Unknown (6.59)	367
Unknown (7.63)	133
Unknown (7.75)	317
1-Phenyl ethanone (9.43)	117
Unknown (11.19)	183
Unknown carboxylic acid (24.30)	83.4

Total Hydrocarbons Present as m/z 57 - 433

** Values are approximate retention times, in minutes.

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKW1

Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 562

SAS No.:

SDG No.: 23123

Matrix: (soil/water) WATER

Lab Sample ID: VOA_BLANK

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: F0774

Level: (low/med) LOW

Date Received:

% Moisture: not dec.

Date Analyzed: 03/17/95

GC Column: VOCOL ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

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

CAS NO.

COMPOUND

Q

74-87-3-----	Chloromethane	10	U
74-83-9-----	Bromomethane	10	U
75-01-4-----	Vinyl Chloride	10	U
75-00-3-----	Chloroethane	10	U
75-09-2-----	Methylene Chloride	5	U
67-64-1-----	Acetone	10	U
75-15-0-----	Carbon Disulfide	5	U
75-35-4-----	1,1-Dichloroethene	5	U
75-34-3-----	1,1-Dichloroethane	5	U
156-59-2-----	cis-1,2-Dichloroethene	5	U
156-60-5-----	trans-1,2-Dichloroethene	5	U
67-66-3-----	Chloroform	5	U
107-06-2-----	1,2-Dichloroethane	5	U
78-93-3-----	2-Butanone	10	U
71-55-6-----	1,1,1-Trichloroethane	5	U
56-23-5-----	Carbon Tetrachloride	5	U
75-27-4-----	Bromodichloromethane	5	U
78-87-5-----	1,2-Dichloropropane	5	U
10061-01-5-----	cis-1,3-Dichloropropene	5	U
79-01-6-----	Trichloroethene	5	U
124-48-1-----	Dibromochloromethane	5	U
79-00-5-----	1,1,2-Trichloroethane	5	U
71-43-2-----	Benzene	5	U
10061-02-6-----	trans-1,3-Dichloropropene	5	U
75-25-2-----	Bromoform	5	U
108-10-1-----	4-Methyl-2-Pentanone	10	U
591-78-6-----	2-Hexanone	10	U
127-18-4-----	Tetrachloroethene	5	U
79-34-5-----	1,1,2,2-Tetrachloroethane	5	U
108-88-3-----	Toluene	5	U
108-90-7-----	Chlorobenzene	5	U
100-41-4-----	Ethylbenzene	5	U
100-42-5-----	Styrene	5	U
1330-20-7-----	Xylene (total)	5	U

FORM I VOA

3/90

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKW1

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 562

SAS No.:

SDG No.: 23123

Matrix: (soil/water) WATER

Lab Sample ID: VOA_BLANK

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: F0774

Level: (low/med) LOW

Date Received:

% Moisture: not dec.

Date Analyzed: 03/17/95

GC Column: VOCOL ID: 0.530 (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
=====	=====	=====	=====	=====

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF WATER ANALYSIS FOR TENTATIVELY IDENTIFIED
VOLATILE ORGANIC COMPOUNDS BY GC/MS

CLIENT : NM-9000 NIAGARA FALLS AFB

TEST NAME : PURGEABLES

SAMPLE ID LAB : Method Blank

SAMPLE ID CLIENT: VBLKW1

SDG # : 23123

SAMPLE VOLUME: 5.0 ML

FINAL VOLUME : NA

UNITS : UG/L

MATRIX: WATER

DATE RECEIVED : NA

DATE EXTRACTED: NA

DATE ANALYZED : 03/17/95

INJECTION VOLUME: NA

DILUTION FACTOR : 1.0

9500.562

Total Hydrocarbons Present as m/z 57 - 3

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLS1

Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 562

SAS No.:

SDG No.: 23123

Matrix: (soil/water) SOIL

Lab Sample ID: VOA_HEAT_BLK

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: C0678

Level: (low/med) LOW

Date Received:

% Moisture: not dec.

Date Analyzed: 03/20/95

GC Column: VOCOL ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	2	J
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

FORM I VOA

3/90

F-413

1E
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKS1

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 562

SAS No.:

SDG No.: 23123

Matrix: (soil/water) SOIL

Lab Sample ID: VOA_HEAT_BLK

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: C0678

Level: (low/med) LOW

Date Received:

% Moisture: not dec.

Date Analyzed: 03/20/95

GC Column: VOCOL ID: 0.530 (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
=====	=====	=====	=====	=====

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF SOIL ANALYSIS FOR TENTATIVELY IDENTIFIED
VOLATILE ORGANIC COMPOUNDS BY GC/MS

CLIENT : NM-9000 NIAGARA FALLS AFB
TEST NAME : PURGEABLES
SAMPLE ID LAB : Method Blank
SAMPLE ID CLIENT: VBLKS1
SDG # : 23123

SAMPLE VOLUME: 5.0 G
FINAL VOLUME : NA

UNITS : UG/KG
MATRIX: SOIL
DATE RECEIVED : NA
DATE EXTRACTED: NA
DATE ANALYZED : 03/20/95
INJECTION VOLUME: NA
DILUTION FACTOR : 1.0

9500.562

Total Hydrocarbons Present as m/z 57 - 17

F-415

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKS2

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 562

SAS No.:

SDG No.: 23123

Matrix: (soil/water) SOIL

Lab Sample ID: VOA_HEAT_BLK

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: C0736

Level: (low/med) LOW

Date Received:

% Moisture: not dec.

Date Analyzed: 03/22/95

GC Column: VOCOL ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

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

CAS NO.

COMPOUND

Q

74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	UU
75-01-4	Vinyl Chloride	10	UUU
75-00-3	Chloroethane	10	UUUU
75-09-2	Methylene Chloride	5	UUUU
67-64-1	Acetone	4	JUU
75-15-0	Carbon Disulfide	5	UUUU
75-35-4	1,1-Dichloroethene	5	UUUU
75-34-3	1,1-Dichloroethane	5	UUUU
156-59-2	cis-1,2-Dichloroethene	5	UUUU
156-60-5	trans-1,2-Dichloroethene	5	UUUU
67-66-3	Chloroform	5	UUUU
107-06-2	1,2-Dichloroethane	5	UUUU
78-93-3	2-Butanone	10	UUUU
71-55-6	1,1,1-Trichloroethane	5	UUUU
56-23-5	Carbon Tetrachloride	5	UUUU
75-27-4	Bromodichloromethane	5	UUUU
78-87-5	1,2-Dichloropropane	5	UUUU
10061-01-5	cis-1,3-Dichloropropene	5	UUUU
79-01-6	Trichloroethene	5	UUUU
124-48-1	Dibromochloromethane	5	UUUU
79-00-5	1,1,2-Trichloroethane	5	UUUU
71-43-2	Benzene	5	UUUU
10061-02-6	trans-1,3-Dichloropropene	5	UUUU
75-25-2	Bromoform	5	UUUU
108-10-1	4-Methyl-2-Pentanone	10	UUUU
591-78-6	2-Hexanone	10	UUUU
127-18-4	Tetrachloroethene	5	UUUU
79-34-5	1,1,2,2-Tetrachloroethane	5	UUUU
108-88-3	Toluene	5	UUUU
108-90-7	Chlorobenzene	5	UUUU
100-41-4	Ethylbenzene	5	UUUU
100-42-5	Styrene	5	UUUU
1330-20-7	Xylene (total)	5	UUUU

FORM I VOA

3/90

1E
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKS2

Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 562

SAS No.:

SDG No.: 23123

Matrix: (soil/water) SOIL

Lab Sample ID: VOA_HEAT_BLK

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: C0736

Level: (low/med) LOW

Date Received:

% Moisture: not dec.

Date Analyzed: 03/22/95

GC Column: VOCOL ID: 0.530 (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

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF SOIL ANALYSIS FOR TENTATIVELY IDENTIFIED
VOLATILE ORGANIC COMPOUNDS BY GC/MS

CLIENT : NM-9000 NIAGARA FALLS AFB
TEST NAME : PURGEABLES
SAMPLE ID LAB : Method Blank
SAMPLE ID CLIENT: VBLKS2
SDG # : 23123

SAMPLE VOLUME: 5.0 G
FINAL VOLUME : NA

UNITS : UG/KG
MATRIX: SOIL
DATE RECEIVED : NA
DATE EXTRACTED: NA
DATE ANALYZED : 03/22/95
INJECTION VOLUME: NA
DILUTION FACTOR : 1.0

9500.562

Total Hydrocarbons Present as m/z 57 - 18

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKW1

Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 562

SAS No.:

SDG No.: 23123

Matrix: (soil/water) WATER

Lab Sample ID: SBLKW_03-17

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: E1685

Level: (low/med) LOW

Date Received:

% Moisture: decanted: (Y/N)

Date Extracted: 03/17/95

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 03/22/95

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

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

CAS NO.

COMPOUND

Q

108-95-2-----	Phenol	10	U
111-44-4-----	bis(2-Chloroethyl) Ether	10	U
95-57-8-----	2-Chlorophenol	10	U
541-73-1-----	1,3-Dichlorobenzene	10	U
106-46-7-----	1,4-Dichlorobenzene	10	U
95-50-1-----	1,2-Dichlorobenzene	10	U
95-48-7-----	2-Methylphenol	10	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5-----	4-Methylphenol	10	U
621-64-7-----	N-Nitroso-Di-n-Propylamine	10	U
67-72-1-----	Hexachloroethane	10	U
98-95-3-----	Nitrobenzene	10	U
78-59-1-----	Isophorone	10	U
88-75-5-----	2-Nitrophenol	10	U
105-67-9-----	2,4-Dimethylphenol	10	U
111-91-1-----	bis(2-Chloroethoxy) Methane	10	U
120-83-2-----	2,4-Dichlorophenol	10	U
120-82-1-----	1,2,4-Trichlorobenzene	10	U
91-20-3-----	Naphthalene	10	U
106-47-8-----	4-Chloroaniline	10	U
87-68-3-----	Hexachlorobutadiene	10	U
59-50-7-----	4-Chloro-3-Methylphenol	10	U
91-57-6-----	2-Methylnaphthalene	10	U
77-47-4-----	Hexachlorocyclopentadiene	10	U
88-06-2-----	2,4,6-Trichlorophenol	10	U
95-95-4-----	2,4,5-Trichlorophenol	50	U
91-58-7-----	2-Chloronaphthalene	10	U
88-74-4-----	2-Nitroaniline	50	U
131-11-3-----	Dimethylphthalate	10	U
208-96-8-----	Acenaphthylene	10	U
606-20-2-----	2,6-Dinitrotoluene	10	U
99-09-2-----	3-Nitroaniline	50	U
83-32-9-----	Acenaphthene	10	U

FORM I SV-1

3/90

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKW1

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 562

SAS No.:

SDG No.: 23123

Matrix: (soil/water) WATER

Lab Sample ID: SBLKW_03-17

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: E1685

Level: (low/med) LOW

Date Received:

% Moisture: decanted: (Y/N)

Date Extracted: 03/17/95

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 03/22/95

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH:

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

Q

CAS NO.	COMPOUND	UG/L	Q
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
92-87-5	Benzidine	50	U
55-85-0	Benzoic Acid	50	U
100-51-6	Benzyl Alcohol	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a) Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl) Phthalate	10	U
117-84-0	Di-n-Octyl Phthalate	10	U
205-99-2	Benzo(b) Fluoranthene	10	U
207-08-9	Benzo(k) Fluoranthene	10	U
50-32-8	Benzo(a) Pyrene	10	U
193-39-5	Indeno(1,2,3-cd) Pyrene	10	U
53-70-3	Dibenz(a,h) Anthracene	10	U
191-24-2	Benzo(g,h,i) Perylene	10	U

(1) - Cannot be separated from Diphenylamine
FORM I SV-2

3/90

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLKW1

Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 562

SAS No.:

SDG No.: 23123

Matrix: (soil/water) WATER

Lab Sample ID: SBLKW_03-17

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: E1685

Level: (low/med) LOW

Date Received:

% Moisture: decanted: (Y/N)

Date Extracted: 03/17/95

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 03/22/95

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

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

Number TICs found: 1

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 12-34-22	Aldol Condensation Product	5.63	27	AJN

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF WATER ANALYSIS FOR TENTATIVELY IDENTIFIED
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS

CLIENT : NM-9000 NIAGARA FALLS AFB
TEST NAME : SEMI-VOLATILES
SAMPLE ID LAB : METHOD BLANK
SAMPLE ID CLIENT: SBLKW1
SDG # : 23123

UNITS : UG/L
MATRIX: WATER
DATE RECEIVED : NA
DATE EXTRACTED: 03/17/95
DATE ANALYZED : 03/22/95
INJECTION VOLUME: 2.0 UL
DILUTION FACTOR : 1.0

SAMPLE VOLUME: 1000 ML
FINAL VOLUME : 1000 UL

9500.562

Total hydrocarbons
present as mass 57

6

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKS1

Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 562

SAS No.:

SDG No.: 23123

Matrix: (soil/water) SOIL

Lab Sample ID: SBLKS_03-20

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E1723

Level: (low/med) LOW

Date Received:

% Moisture: decanted: (Y/N) N

Date Extracted: 03/20/95

Concentrated Extract Volume: 500:0 (uL)

Date Analyzed: 03/24/95

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH:

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

CAS NO. COMPOUND UG/KG Q

108-95-2-----	Phenol	330	U
111-44-4-----	bis(2-Chloroethyl)Ether	330	U
95-57-8-----	2-Chlorophenol	330	U
541-73-1-----	1,3-Dichlorobenzene	330	U
106-46-7-----	1,4-Dichlorobenzene	330	U
95-50-1-----	1,2-Dichlorobenzene	330	U
95-48-7-----	2-Methylphenol	330	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	330	U
106-44-5-----	4-Methylphenol	330	U
621-64-7-----	N-Nitroso-Di-n-Propylamine	330	U
67-72-1-----	Hexachloroethane	330	U
98-95-3-----	Nitrobenzene	330	U
78-59-1-----	Isophorone	330	U
88-75-5-----	2-Nitrophenol	330	U
105-67-9-----	2,4-Dimethylphenol	330	U
111-91-1-----	bis(2-Chloroethoxy)Methane	330	U
120-83-2-----	2,4-Dichlorophenol	330	U
120-82-1-----	1,2,4-Trichlorobenzene	330	U
91-20-3-----	Naphthalene	330	U
106-47-8-----	4-Chloroaniline	330	U
87-68-3-----	Hexachlorobutadiene	330	U
59-50-7-----	4-Chloro-3-Methylphenol	330	U
91-57-6-----	2-Methylnaphthalene	330	U
77-47-4-----	Hexachlorocyclopentadiene	330	U
88-06-2-----	2,4,6-Trichlorophenol	330	U
95-95-4-----	2,4,5-Trichlorophenol	1600	U
91-58-7-----	2-Chloronaphthalene	330	U
88-74-4-----	2-Nitroaniline	1600	U
131-11-3-----	Dimethylphthalate	330	U
208-96-8-----	Acenaphthylene	330	U
606-20-2-----	2,6-Dinitrotoluene	330	U
99-09-2-----	3-Nitroaniline	1600	U
83-32-9-----	Acenaphthene	330	U

FORM I SV-1

3/90

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKS1

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 562

SAS No.:

SDG No.: 23123

Matrix: (soil/water) SOIL

Lab Sample ID: SBLKS_03-20

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E1723

Level: (low/med) LOW

Date Received:

% Moisture: decanted: (Y/N) N

Date Extracted: 03/20/95

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 03/24/95

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

Cleanup: (Y/N) Y

pH:

CONCENTRATION UNITS:

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

Q

CAS NO.

COMPOUND

51-28-5-----	2,4-Dinitrophenol	1600	U
100-02-7-----	4-Nitrophenol	1600	U
132-64-9-----	Dibenzofuran	330	U
121-14-2-----	2,4-Dinitrotoluene	330	U
84-66-2-----	Diethylphthalate	330	U
7005-72-3-----	4-Chlorophenyl-phenylether	330	U
86-73-7-----	Fluorene	330	U
100-01-6-----	4-Nitroaniline	1600	U
534-52-1-----	4,6-Dinitro-2-methylphenol	1600	U
86-30-6-----	N-Nitrosodiphenylamine (1)	330	U
101-55-3-----	4-Bromophenyl-phenylether	330	U
118-74-1-----	Hexachlorobenzene	330	U
87-86-5-----	Pentachlorophenol	1600	U
85-01-8-----	Phenanthrene	330	U
120-12-7-----	Anthracene	330	U
86-74-8-----	Carbazole	330	U
84-74-2-----	Di-n-Butylphthalate	330	U
206-44-0-----	Fluoranthene	330	U
92-87-5-----	Benzidine	1600	U
55-85-0-----	Benzoic Acid	1600	U
100-51-6-----	Benzyl Alcohol	330	U
129-00-0-----	Pyrene	330	U
85-68-7-----	Butylbenzylphthalate	330	U
91-94-1-----	3,3'-Dichlorobenzidine	660	U
56-55-3-----	Benzo(a)Anthracene	330	U
218-01-9-----	Chrysene	330	U
117-81-7-----	bis(2-Ethylhexyl)Phthalate	330	U
117-84-0-----	Di-n-Octyl Phthalate	330	U
205-99-2-----	Benzo(b)Fluoranthene	330	U
207-08-9-----	Benzo(k)Fluoranthene	330	U
50-32-8-----	Benzo(a)Pyrene	330	U
193-39-5-----	Indeno(1,2,3-cd)Pyrene	330	U
53-70-3-----	Dibenz(a,h)Anthracene	330	U
191-24-2-----	Benzo(g,h,i)Perylene	330	U

(1) - Cannot be separated from Diphenylamine

FORM I SV-2

3/90

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLKS1

Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 562

SAS No.:

SDG No.: 23123

Matrix: (soil/water) SOIL

Lab Sample ID: SBLKS_03-20

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E1723

Level: (low/med) LOW

Date Received:

% Moisture: decanted: (Y/N) N

Date Extracted: 03/20/95

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 03/24/95

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH:

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

Number TICs found: 9

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 12-34-22	Aldol Condensation Product	6.11	38000	AJN
2.	UNKNOWN	7.52	120	J
3.	UNKNOWN OXY. HYDROCARBON	7.67	1500	J
4.	UNKNOWN	8.49	650	J
5.	UNKNOWN	9.58	180	J
6.	UNKNOWN	12.94	230	J
7.	UNKNOWN	13.96	180	J
8.	UNKNOWN	10.94	130	J
9.	UNKNOWN CARBOXYLIC ACID	28.61	66	J

FORM I SV-TIC

3/90

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ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF SOIL ANALYSIS FOR TENTATIVELY IDENTIFIED
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS

CLIENT	: NM-9000 NIAGARA FALLS AFB	% SOLIDS :
TEST NAME	: SEMI-VOLATILES	UNITS : UG/KG
SAMPLE ID LAB	: METHOD BLANK	MATRIX: SOIL
SAMPLE ID CLIENT	: SBLKS1	DATE RECEIVED : NA
SDG #	: 23123	DATE EXTRACTED: 03/20/95
		DATE ANALYZED : 03/24/95
SAMPLE VOLUME:	30 G	INJECTION VOLUME: 2.0 UL
FINAL VOLUME :	500 UL	DILUTION FACTOR : 1.0

9500.562

Total hydrocarbons
present as mass 57 730

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET.

EPA SAMPLE NO.

SBLKS2

Lab Name: E & E INC.
 Lab Code: EANDE Case No.: 562
 Matrix: (soil/water) SOIL
 Sample wt/vol: 30.0 (g/mL) G
 Level: (low/med) LOW
 % Moisture: decanted: (Y/N) N
 Concentrated Extract Volume: 500.0 (uL)
 Injection Volume: 2.0 (uL)
 GPC Cleanup: (Y/N) Y pH:

Contract:
 SAS No.:
 SDG No.: 23123
 Lab Sample ID: SBLKS_03-28
 Lab File ID: G9834
 Date Received:
 Date Extracted: 03/28/95
 Date Analyzed: 03/30/95
 Dilution Factor: 1.0

CAS NO. COMPOUND CONCENTRATION UNITS:
 (ug/L or ug/Kg) UG/KG Q

108-95-2	Phenol	330	U
111-44-4	bis(2-Chloroethyl) Ether	330	U
95-57-8	2-Chlorophenol	330	U
541-73-1	1,3-Dichlorobenzene	330	U
106-46-7	1,4-Dichlorobenzene	330	U
95-50-1	1,2-Dichlorobenzene	330	U
95-48-7	2-Methylphenol	330	U
108-60-1	2,2'-oxybis(1-Chloropropane)	330	U
106-44-5	4-Methylphenol	330	U
621-64-7	N-Nitroso-Di-n-Propylamine	330	U
67-72-1	Hexachloroethane	330	U
98-95-3	Nitrobenzene	330	U
78-59-1	Isophorone	330	U
88-75-5	2-Nitrophenol	330	U
105-67-9	2,4-Dimethylphenol	330	U
111-91-1	bis(2-Chloroethoxy) Methane	330	U
120-83-2	2,4-Dichlorophenol	330	U
120-82-1	1,2,4-Trichlorobenzene	330	U
91-20-3	Naphthalene	330	U
106-47-8	4-Chloroaniline	330	U
87-68-3	Hexachlorobutadiene	330	U
59-50-7	4-Chloro-3-Methylphenol	330	U
91-57-6	2-Methylnaphthalene	330	U
77-47-4	Hexachlorocyclopentadiene	330	U
88-06-2	2,4,6-Trichlorophenol	330	U
95-95-4	2,4,5-Trichlorophenol	330	U
91-58-7	2-Chloronaphthalene	1600	U
88-74-4	2-Nitroaniline	330	U
131-11-3	Dimethylphthalate	1600	U
208-96-8	Acenaphthylene	330	U
606-20-2	2,6-Dinitrotoluene	330	U
99-09-2	3-Nitroaniline	330	U
83-32-9	Acenaphthene	1600	U
		330	U

FORM I SV-1

3/90

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKS2

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 562

SAS No.:

SDG No.: 23123

Matrix: (soil/water) SOIL

Lab Sample ID: SBLKS_03-28

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: G9834

Level: (low/med) LOW

Date Received:

% Moisture: decanted: (Y/N) N

Date Extracted: 03/28/95

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 03/30/95

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

RPC Cleanup: (Y/N) Y

pH:

CONCENTRATION UNITS:

CAS NO.

COMPOUND

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

Q

51-28-5-----	2,4-Dinitrophenol	1600	U
100-02-7-----	4-Nitrophenol	1600	U
132-64-9-----	Dibenzofuran	330	U
121-14-2-----	2,4-Dinitrotoluene	330	U
84-66-2-----	Diethylphthalate	330	U
7005-72-3-----	4-Chlorophenyl-phenylether	330	U
86-73-7-----	Fluorene	330	U
100-01-6-----	4-Nitroaniline	1600	U
534-52-1-----	4,6-Dinitro-2-methylphenol	1600	U
86-30-6-----	N-Nitrosodiphenylamine (1)	330	U
101-55-3-----	4-Bromophenyl-phenylether	330	U
118-74-1-----	Hexachlorobenzene	330	U
87-86-5-----	Pentachlorophenol	1600	U
85-01-8-----	Phenanthrene	330	U
120-12-7-----	Anthracene	330	U
86-74-8-----	Carbazole	330	U
84-74-2-----	Di-n-Butylphthalate	330	U
206-44-0-----	Fluoranthene	330	U
92-87-5-----	Benzidine	1600	U
55-85-0-----	Benzoic Acid	1600	U
100-51-6-----	Benzyl Alcohol	330	U
129-00-0-----	Pyrene	330	U
85-68-7-----	Butylbenzylphthalate	330	U
91-94-1-----	3,3'-Dichlorobenzidine	660	U
56-55-3-----	Benzo(a)Anthracene	330	U
218-01-9-----	Chrysene	330	U
117-81-7-----	bis(2-Ethylhexyl) Phthalate	330	U
117-84-0-----	Di-n-Octyl Phthalate	330	U
205-99-2-----	Benzo(b)Fluoranthene	330	U
207-08-9-----	Benzo(k)Fluoranthene	330	U
50-32-8-----	Benzo(a)Pyrene	330	U
193-39-5-----	Indeno(1,2,3-cd)Pyrene	330	U
53-70-3-----	Dibenz(a,h)Anthracene	330	U
191-24-2-----	Benzo(g,h,i)Perylene	330	U

(1) - Cannot be separated from Diphenylamine

FORM I SV-2

3/90

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLKS2

Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 562

SAS No.:

SDG No.: 23123

Matrix: (soil/water) SOIL

Lab Sample ID: SBLKS_03-28

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: G9834

Level: (low/med) LOW

Date Received:

% Moisture: decanted: (Y/N) N

Date Extracted: 03/28/95

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 03/30/95

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH:

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

Number TICs found: 9

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN HYDROCARBON	4.17	130	J
2. 12-34-22	Aldol Condensation Product	4.76	20000	AJN
3.	UNKNOWN	5.66	170	J
4.	UNKNOWN	5.74	66	J
5.	UNKNOWN	6.40	1800	J
6.	CYCLOHEXENONE ISOMER	6.69	66	J
7.	UNKNOWN	7.12	150	J
8.	UNKNOWN	8.03	180	J
9. 98-86-2	Acetophenone	9.89	100	JN

FORM I SV-TIC

3/90

F-429

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ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF SOIL ANALYSIS FOR TENTATIVELY IDENTIFIED
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS

CLIENT	: NM-9000 NIAGARA FALLS AFB	% SOLIDS :
TEST NAME	: SEMI-VOLATILES	UNITS : UG/KG
SAMPLE ID LAB	: METHOD BLANK	MATRIX: SOIL
SAMPLE ID CLIENT:	SBLKS2	DATE RECEIVED : NA
SDG #	: 23123	DATE EXTRACTED: 03/28/95
		DATE ANALYZED : 03/30/95
SAMPLE VOLUME:	30 G	INJECTION VOLUME: 2.0 UL
FINAL VOLUME :	500 UL	DILUTION FACTOR : 1.0

9500.562

Total hydrocarbons
present as mass 57 590

METALS SECTION

JOB NUMBER : 9500.562

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NM-9000 RFI SITE 3 - NEAFB AFRES

SAMPLE ID LAB : METHOD BLANK (693)

MATRIX: SOLID

DATE RECEIVED : 03/16/95

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	ND		5.0	MG/KG
Antimony	ND		6.0	MG/KG
Beryllium	ND		0.50	MG/KG
Cadmium	ND		0.50	MG/KG
Chromium Total	ND		1.0	MG/KG
Copper	ND		2.0	MG/KG
Nickel	ND		2.0	MG/KG
Silver	ND		1.0	MG/KG
Zinc	ND		1.0	MG/KG

QUALIFIERS: C = COMMENT
 J = ESTIMATED VALUE

ND = NOT DETECTED

METALS SECTION

JOB NUMBER : 9500.562

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NM-9000 RFI SITE 3 - NFAFB AFRES
SAMPLE ID LAB : METHOD BLANK (694) MATRIX: SOLID
DATE RECEIVED : 03/16/95

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Arsenic	ND		0.50	MG/KG
Selenium	ND		0.50	MG/KG
Thallium	ND		0.50	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER : 9500.562

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NM-9000 RFI SITE 3 - NFAFB AFRES
SAMPLE ID LAB : METHOD BLANK (03/21) MATRIX: SOLID
DATE RECEIVED : 03/16/95

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Mercury	ND		0.10	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKS3

Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 597

SAS No.:

SDG No.: 23365

Matrix: (soil/water) SOIL

Lab Sample ID: VOA_HEAT_BLK

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: C0710

Level: (low/med) LOW

Date Received:

% Moisture: not dec.

Date Analyzed: 03/21/95

GC Column: VOCOL ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

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

CAS NO. COMPOUND UG/KG Q

74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

FORM I VOA

3/90

F-435

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKS3

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 597

SAS No.:

SDG No.: 23365

Matrix: (soil/water) SOIL

Lab Sample ID: VOA_HEAT_BLK

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: C0710

Level: (low/med) LOW

Date Received:

% Moisture: not dec.

Date Analyzed: 03/21/95

GC Column: VOCOL ID: 0.530 (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
=====	=====	=====	=====	=====

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF SOIL ANALYSIS FOR TENTATIVELY IDENTIFIED
VOLATILE ORGANIC COMPOUNDS BY GC/MS

CLIENT	: NM-9000 NIAGARA FALLS AFB	UNITS	: UG/KG
TEST NAME	: PURGEABLES	MATRIX	: SOLID
SAMPLE ID LAB	: Method Blank	DATE RECEIVED	: NA
SAMPLE ID CLIENT	: VBLKS3	DATE EXTRACTED	: NA
SDG #	: 23365	DATE ANALYZED	: 03/21/95
SAMPLE VOLUME	: 5.0 G	INJECTION VOLUME	: NA
FINAL VOLUME	: NA	DILUTION FACTOR	: 1.0

9500.597

Total Hydrocarbons Present as m/z 57 - 4

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKS1

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 597

SAS No.:

SDG No.: 23365

Matrix: (soil/water) SOIL

Lab Sample ID: VOA_HEAT_BLK

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: C0736

Level: (low/med) LOW

Date Received:

% Moisture: not dec.

Date Analyzed: 03/22/95

GC Column: VOCOL ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	4	J
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBKLS1

Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 597

SAS No.:

SDG No.: 23365

Matrix: (soil/water) SOIL

Lab Sample ID: VOA_HEAT_BLK

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: C0736

Level: (low/med) LOW

Date Received:

% Moisture: not dec.

Date Analyzed: 03/22/95

GC Column: VOCOL ID: 0.530 (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
=====	=====	=====	=====	=====

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF SOIL ANALYSIS FOR TENTATIVELY IDENTIFIED
VOLATILE ORGANIC COMPOUNDS BY GC/MS

CLIENT	: NM-9000 NIAGARA FALLS AFB	UNITS	: UG/KG
TEST NAME	: PURGEABLES	MATRIX	: SOLID
SAMPLE ID LAB	: Method Blank	DATE RECEIVED	: NA
SAMPLE ID CLIENT	: VBLKS1	DATE EXTRACTED	: NA
SDG #	: 23365	DATE ANALYZED	: 03/22/95
SAMPLE VOLUME	: 5.0 G	INJECTION VOLUME	: NA
FINAL VOLUME	: NA	DILUTION FACTOR	: 1.0

9500.597

Total Hydrocarbons Present as m/z 57 - 3

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBKLS2

Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 597

SAS No.:

SDG No.: 23365

Matrix: (soil/water) SOIL

Lab Sample ID: VOA_HEAT_BLK

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: C0764

Level: (low/med) LOW

Date Received:

% Moisture: not dec.

Date Analyzed: 03/23/95

GC Column: VOCOL ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	2	J
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

FORM I VOA

3/90

F-441

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKS2

Lab Name: E & E INC.

Contract:

Lab Code: EANDE Case No.: 597

SAS No.:

SDG No.: 23365

Matrix: (soil/water) SOIL

Lab Sample ID: VOA_HEAT_BLK

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: C0764

Level: (low/med) LOW

Date Received:

% Moisture: not dec.

Date Analyzed: 03/23/95

GC Column: VOCOL ID: 0.530 (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
=====	=====	=====	=====	=====

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF SOIL ANALYSIS FOR TENTATIVELY IDENTIFIED
VOLATILE ORGANIC COMPOUNDS BY GC/MS

CLIENT	: NM-9000 NIAGARA FALLS AFB	UNITS	: UG/KG
TEST NAME	: PURGEABLES	MATRIX	: SOLID
SAMPLE ID LAB	: Method Blank	DATE RECEIVED	: NA
SAMPLE ID CLIENT	: VBLKS2	DATE EXTRACTED	: NA
SDG #	: 23365	DATE ANALYZED	: 03/23/95
SAMPLE VOLUME	: 5.0 G	INJECTION VOLUME	: NA
FINAL VOLUME	: NA	DILUTION FACTOR	: 1.0

9500.597

Total Hydrocarbons Present as m/z 57 - 3

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF WATER ANALYSIS FOR TENTATIVELY IDENTIFIED
VOLATILE ORGANIC COMPOUNDS BY GC/MS

CLIENT : NM-9000 NIAGARA FALLS AFB
TEST NAME : PURGEABLES
SAMPLE ID LAB : Method Blank
SAMPLE ID CLIENT: VBLKW1
SDG # : 23365

UNITS : UG/L
MATRIX: WATER
DATE RECEIVED : NA
DATE EXTRACTED: NA
DATE ANALYZED : 03/29/95
INJECTION VOLUME: NA
DILUTION FACTOR : 1.0

SAMPLE VOLUME: 5.0 mL
FINAL VOLUME : NA

9500.597

Total Hydrocarbons Present as m/z 57 - 3

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA- SAMPLE NO.

VBLKM1

Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 597

SAS No.:

SDG No.: 23365

Matrix: (soil/water) SOIL

Lab Sample ID: VOA_MEOH_BLK

Sample wt/vol: 4.0 (g/mL) G

Lab File ID: C0844

Level: (low/med) MED

Date Received:

% Moisture: not dec.

Date Analyzed: 03/31/95

GC Column: VOCOL ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume: 100 (uL)

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

CAS NO. COMPOUND Q

74-87-3	-----Chloromethane	1200	U
74-83-9	-----Bromomethane	1200	U
75-01-4	-----Vinyl Chloride	1200	U
75-00-3	-----Chloroethane	1200	U
75-09-2	-----Methylene Chloride	280	J
67-64-1	-----Acetone	1200	
75-15-0	-----Carbon Disulfide	620	U
75-35-4	-----1,1-Dichloroethene	620	U
75-34-3	-----1,1-Dichloroethane	620	U
156-59-2	-----cis-1,2-Dichloroethene	620	U
156-60-5	-----trans-1,2-Dichloroethene	620	U
67-66-3	-----Chloroform	620	U
107-06-2	-----1,2-Dichloroethane	620	U
78-93-3	-----2-Butanone	1700	
71-55-6	-----1,1,1-Trichloroethane	620	U
56-23-5	-----Carbon Tetrachloride	620	U
75-27-4	-----Bromodichloromethane	620	U
78-87-5	-----1,2-Dichloropropane	620	U
10061-01-5	-----cis-1,3-Dichloropropene	620	U
79-01-6	-----Trichloroethene	620	U
124-48-1	-----Dibromochloromethane	620	U
79-00-5	-----1,1,2-Trichloroethane	620	U
71-43-2	-----Benzene	620	U
10061-02-6	-----trans-1,3-Dichloropropene	620	U
75-25-2	-----Bromoform	620	U
108-10-1	-----4-Methyl-2-Pentanone	1200	U
591-78-6	-----2-Hexanone	1200	U
127-18-4	-----Tetrachloroethene	620	U
79-34-5	-----1,1,2,2-Tetrachloroethane	620	U
108-88-3	-----Toluene	620	U
108-90-7	-----Chlorobenzene	620	U
100-41-4	-----Ethylbenzene	620	U
100-42-5	-----Styrene	620	U
1330-20-7	-----Xylene (total)	620	U

FORM I VOA

3/90

F-445

1E
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKM1

Name: E & E INC.

Contract:

Mode: EANDE

Case No.: 597

SAS No.:

SDG No.: 23365

Matrix: (soil/water) SOIL

Lab Sample ID: VOA_MEOH_BLK

Sample wt/vol: 4.0 (g/mL) G

Lab File ID: C0844

Level: (low/med) MED

Date Received:

% Moisture: not dec.

Date Analyzed: 03/31/95

GC Column: VOCOL ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume: 100 (uL)

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF SOIL ANALYSIS FOR TENTATIVELY IDENTIFIED
VOLATILE ORGANIC COMPOUNDS BY GC/MS

CLIENT : NM-9000 NIAGARA FALLS AFB
TEST NAME : PURGEABLES
SAMPLE ID LAB : Method Blank
SAMPLE ID CLIENT: VBLKM1
SDG # : 23365

UNITS : UG/KG
MATRIX: SOLID
DATE RECEIVED : NA
DATE EXTRACTED: NA
DATE ANALYZED : 03/31/95
INJECTION VOLUME: 100 uL
DILUTION FACTOR : 1.0

SAMPLE VOLUME: 4.0 G
FINAL VOLUME : 10 mL

9500.597

Total Hydrocarbons Present as m/z 57 - 500

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKS1

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 597

SAS No.:

SDG No.: 23365

Matrix: (soil/water) SOIL

Lab Sample ID: SBLKS_03-23

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: G9815

Level: (low/med) LOW

Date Received:

% Moisture: decanted: (Y/N) N

Date Extracted: 03/23/95

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 03/29/95

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH:

CONCENTRATION UNITS:

CAS NO.

COMPOUND

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

Q

108-95-2-----	Phenol	330	U
111-44-4-----	bis(2-Chloroethyl) Ether	330	U
95-57-8-----	2-Chlorophenol	330	U
541-73-1-----	1,3-Dichlorobenzene	330	U
106-46-7-----	1,4-Dichlorobenzene	330	U
95-50-1-----	1,2-Dichlorobenzene	330	U
95-48-7-----	2-Methylphenol	330	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	330	U
106-44-5-----	4-Methylphenol	330	U
621-64-7-----	N-Nitroso-Di-n-Propylamine	330	U
67-72-1-----	Hexachloroethane	330	U
98-95-3-----	Nitrobenzene	330	U
78-59-1-----	Isophorone	330	U
88-75-5-----	2-Nitrophenol	330	U
105-67-9-----	2,4-Dimethylphenol	330	U
111-91-1-----	bis(2-Chloroethoxy)Methane	330	U
120-83-2-----	2,4-Dichlorophenol	330	U
120-82-1-----	1,2,4-Trichlorobenzene	330	U
91-20-3-----	Naphthalene	330	U
106-47-8-----	4-Chloroaniline	330	U
87-68-3-----	Hexachlorobutadiene	330	U
59-50-7-----	4-Chloro-3-Methylphenol	330	U
91-57-6-----	2-Methylnaphthalene	330	U
77-47-4-----	Hexachlorocyclopentadiene	330	U
88-06-2-----	2,4,6-Trichlorophenol	330	U
95-95-4-----	2,4,5-Trichlorophenol	1600	U
91-58-7-----	2-Chloronaphthalene	330	U
88-74-4-----	2-Nitroaniline	1600	U
131-11-3-----	Dimethylphthalate	330	U
208-96-8-----	Acenaphthylene	330	U
606-20-2-----	2,6-Dinitrotoluene	330	U
99-09-2-----	3-Nitroaniline	1600	U
83-32-9-----	Acenaphthene	330	U

FORM I SV-1

3/90

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKS1

Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 597

SAS No.:

SDG No.: 23365

Matrix: (soil/water) SOIL

Lab Sample ID: SBLKS_03-23

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: G9815

Level: (low/med) LOW

Date Received:

% Moisture: decanted: (Y/N) N

Date Extracted: 03/23/95

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 03/29/95

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH:

CONCENTRATION UNITS:

CAS NO.

COMPOUND

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

Q

51-28-5-----	2,4-Dinitrophenol	1600	U
100-02-7-----	4-Nitrophenol	1600	U
132-64-9-----	Dibenzofuran	330	U
121-14-2-----	2,4-Dinitrotoluene	330	U
84-66-2-----	Diethylphthalate	330	U
7005-72-3-----	4-Chlorophenyl-phenylether	330	U
86-73-7-----	Fluorene	330	U
100-01-6-----	4-Nitroaniline	1600	U
534-52-1-----	4,6-Dinitro-2-methylphenol	1600	U
86-30-6-----	N-Nitrosodiphenylamine (1)	330	U
101-55-3-----	4-Bromophenyl-phenylether	330	U
118-74-1-----	Hexachlorobenzene	330	U
87-86-5-----	Pentachlorophenol	1600	U
85-01-8-----	Phenanthrene	330	U
120-12-7-----	Anthracene	330	U
86-74-8-----	Carbazole	330	U
84-74-2-----	Di-n-Butylphthalate	330	U
206-44-0-----	Fluoranthene	330	U
92-87-5-----	Benzidine	1600	U
55-85-0-----	Benzoic Acid	1600	U
100-51-6-----	Benzyl Alcohol	330	U
129-00-0-----	Pyrene	330	U
85-68-7-----	Butylbenzylphthalate	330	U
91-94-1-----	3,3'-Dichlorobenzidine	660	U
56-55-3-----	Benzo(a)Anthracene	330	U
218-01-9-----	Chrysene	330	U
117-81-7-----	bis(2-Ethylhexyl)Phthalate	330	U
117-84-0-----	Di-n-Octyl Phthalate	330	U
205-99-2-----	Benzo(b)Fluoranthene	330	U
207-08-9-----	Benzo(k)Fluoranthene	330	U
50-32-8-----	Benzo(a)Pyrene	330	U
193-39-5-----	Indeno(1,2,3-cd)Pyrene	330	U
53-70-3-----	Dibenz(a,h)Anthracene	330	U
191-24-2-----	Benzo(g,h,i)Perylene	330	U

(1) - Cannot be separated from Diphenylamine
FORM I SV-2

3/90

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLKS1

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 597

SAS No.:

SDG No.: 23365

Matrix: (soil/water) SOIL

Lab Sample ID: SBLKS_03-23

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: G9815

Level: (low/med) LOW

Date Received:

% Moisture: decanted: (Y/N) N

Date Extracted: 03/23/95

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 03/29/95

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH:

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

Number TICs found: 11

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 12-34-22	Aldol Condensation Product	4.89	46000	AJN
2.	UNKNOWN	6.28	66	J
3.	UNKNOWN	6.46	2200	J
4.	UNKNOWN OXY. HYDROCARBON	6.74	170	J
5.	UNKNOWN	7.08	83	J
6.	UNKNOWN	7.16	170	J
7.	UNKNOWN	8.09	200	J
8.	UNKNOWN	8.19	83	J
9. 98-86-2	Acetophenone	9.97	66	JN
10.	UNKNOWN CARBOXYLIC ACID	24.96	170	J
11.	UNKNOWN CARBOXYLIC ACID	27.44	100	J

RESULTS OF SOIL ANALYSIS FOR TENTATIVELY IDENTIFIED
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS

CLIENT : NM-8000 NIAGARA FALLS AFB
TEST NAME : SEMI-VOLATILES
SAMPLE ID LAB : Method Blank
SAMPLE ID CLIENT: SBLKS1
SDG # : 23365
SAMPLE VOLUME: 30 G
FINAL VOLUME : 500 UL
UNITS : UG/KG
MATRIX: SOLID
DATE RECEIVED : NA
DATE EXTRACTED: 03/23/95
DATE ANALYZED : 03/29/95
INJECTION VOLUME: 2.0 UL
DILUTION FACTOR : 1.0

9500.597

Total hydrocarbons
present as mass 57 310

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.:

SBLKW1

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 597

SAS No.:

SDG No.: 23365

Matrix: (soil/water) WATER

Lab Sample ID: SBLKW_03-29

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: I1418

Level: (low/med) LOW

Date Received:

% Moisture: decanted: (Y/N)

Date Extracted: 03/29/95

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 04/03/95

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GC Cleanup: (Y/N) N

pH:

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

CAS NO.

COMPOUND

Q

108-95-2-----	Phenol	10	U
111-44-4-----	bis(2-Chloroethyl) Ether	10	U
95-57-8-----	2-Chlorophenol	10	U
541-73-1-----	1,3-Dichlorobenzene	10	U
106-46-7-----	1,4-Dichlorobenzene	10	U
95-50-1-----	1,2-Dichlorobenzene	10	U
95-48-7-----	2-Methylphenol	10	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5-----	4-Methylphenol	10	U
621-64-7-----	N-Nitroso-Di-n-Propylamine	10	U
67-72-1-----	Hexachloroethane	10	U
98-95-3-----	Nitrobenzene	10	U
78-59-1-----	Isophorone	10	U
88-75-5-----	2-Nitrophenol	10	U
105-67-9-----	2,4-Dimethylphenol	10	U
111-91-1-----	bis(2-Chloroethoxy)Methane	10	U
120-83-2-----	2,4-Dichlorophenol	10	U
120-82-1-----	1,2,4-Trichlorobenzene	10	U
91-20-3-----	Naphthalene	10	U
106-47-8-----	4-Chloroaniline	10	U
87-68-3-----	Hexachlorobutadiene	10	U
59-50-7-----	4-Chloro-3-Methylphenol	10	U
91-57-6-----	2-Methylnaphthalene	10	U
77-47-4-----	Hexachlorocyclopentadiene	10	U
88-06-2-----	2,4,6-Trichlorophenol	10	U
95-95-4-----	2,4,5-Trichlorophenol	50	U
91-58-7-----	2-Chloronaphthalene	10	U
88-74-4-----	2-Nitroaniline	50	U
131-11-3-----	Dimethylphthalate	10	U
208-96-8-----	Acenaphthylene	10	U
606-20-2-----	2,6-Dinitrotoluene	10	U
99-09-2-----	3-Nitroaniline	50	U
83-32-9-----	Acenaphthene	10	U

FORM I SV-1

3/90

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKW1

Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 597

SAS No.:

SDG No.: 23365

Matrix: (soil/water) WATER

Lab Sample ID: SBLKW_03-29

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: I1418

Level: (low/med) LOW

Date Received:

% Moisture: decanted: (Y/N)

Date Extracted: 03/29/95

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 04/03/95

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH:

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

Q

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
92-87-5	Benzidine	50	U
55-85-0	Benzoic Acid	50	U
100-51-6	Benzyl Alcohol	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl) Phthalate	10	U
117-84-0	Di-n-Octyl Phthalate	10	U
205-99-2	Benzo(b) Fluoranthene	10	U
207-08-9	Benzo(k) Fluoranthene	10	U
50-32-8	Benzo(a) Pyrene	10	U
193-39-5	Indeno(1,2,3-cd) Pyrene	10	U
53-70-3	Dibenz(a,h) Anthracene	10	U
191-24-2	Benzo(g,h,i) Perylene	10	U

(1) - Cannot be separated from Diphenylamine

FORM I SV-2

3/90

F-453

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLKW1

Name: E & E INC.

Contract:

Code: EANDE

Case No.: 597

SAS No.:

SDG No.: 23365

Matrix: (soil/water) WATER

Lab Sample ID: SBLKW_03-29

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: I1418

Level: (low/med) LOW

Date Received:

% Moisture: decanted: (Y/N)

Date Extracted: 03/29/95

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 04/03/95

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

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

Number TICs found: 2

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 12-34-22	Aldol Condensation Product	5.54	25	AJN
2.	UNKNOWN	7.94	4	J

TEST CODE :WPCB 1

JOB NUMBER :9500.633/9500.647

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NM-9000 RFI SITE 3 - NFAFB AFRES

TEST NAME : PCB

UNITS : UG/L

SAMPLE ID LAB : METHOD BLANK (1239)

MATRIX: WATER

DATE EXTRACTED: 03/29/95

DATE ANALYZED : 04/06/95

SAMPLE VOLUME: 1000 mL

INJECTION VOLUME: 4.0 uL

FINAL VOLUME : 1.0 mL

DILUTION FACTOR : 1.0

PARAMETER	RESULTS	Q	QNT. LIMIT
PCB-1242	ND		0.50
PCB-1254	ND		0.50
PCB-1221	ND		0.50
PCB-1232	ND		0.50
PCB-1248	ND		0.50
PCB-1260	ND		0.50
PCB-1016	ND		0.50

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

B = ALSO PRESENT IN BLANK

N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE

METALS SECTION

JOB NUMBER : 9500.597/9500.614

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NM-9000 RFI SITE 3 - NFAFB AFRES
SAMPLE ID LAB : METHOD BLANK (716) MATRIX: SOLID
SDG # : 23365

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Arsenic	ND		0.50	MG/KG
Lead	ND		0.50	MG/KG
Antimony	ND		6.0	MG/KG
Beryllium	ND		0.50	MG/KG
Cadmium	ND		0.50	MG/KG
Chromium Total	ND		1.0	MG/KG
Copper	ND		2.0	MG/KG
Nickel	ND		2.0	MG/KG
Silver	ND		1.0	MG/KG
Zinc	ND		1.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9500.597/9500.614

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NM-9000 RFI SITE 3 - NFAFB AFRES
SAMPLE ID LAB : METHOD BLANK (717) MATRIX: SOLID
SDG # : 23365

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
-----	-----	-	-----	-----
Thallium	ND		0.50	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER : 9500.597/9500.614

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NM-9000 RFI SITE 3 - NFAFB AFRES
SAMPLE ID LAB : METHOD BLANK (03/24) MATRIX: SOLID
SDG # : 23365

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Mercury	ND		0.20	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE

JOB NUMBER : 9500.647

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NM-8000 NIAGARA FALLS AFB
SAMPLE ID LAB : METHOD BLANK (731) MATRIX: WATER

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
-----	-----	-	-----	-----
Antimony	ND		60	UG/L
Beryllium	ND		5.0	UG/L
Cadmium	ND		5.0	UG/L
Chromium Total	ND		10	UG/L
Copper	ND		20	UG/L
Nickel	ND		20	UG/L
Silver	ND		10	UG/L
Zinc	ND		10	UG/L

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

JOB NUMBER : 9500.647

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NM-8000 NIAGARA FALLS AFB
SAMPLE ID LAB : METHOD BLANK (730) MATRIX: WATER

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Arsenic	ND		5.0	UG/L
Lead	ND		5.0	UG/L
Selenium	ND		5.0	UG/L
Thallium	ND		5.0	UG/L

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

F-461

JOB NUMBER : 9500.647

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NM-8000 NIAGARA FALLS AFB

SAMPLE ID LAB : METHOD BLANK (3/30) MATRIX: WATER

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Mercury	ND		0.20	UG/L

QUALIFIERS: C = COMMENT
J = ESTIMATED VALUE

ND = NOT DETECTED

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKW1

Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 611

SAS No.:

SDG No.: 23452

Matrix: (soil/water) WATER

Lab Sample ID: VOA_BLANK

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: F1006

Level: (low/med) LOW

Date Received:

% Moisture: not dec.

Date Analyzed: 03/29/95

GC Column: VOCOL ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

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

CAS NO. COMPOUND Q

74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

FORM I VOA

3/90

1E
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKW1

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 611

SAS No.:

SDG No.: 23452

Matrix: (soil/water) WATER

Lab Sample ID: VOA_BLANK

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: F1006

Level: (low/med) LOW

Date Received:

% Moisture: not dec.

Date Analyzed: 03/29/95

GC Column: VOCOL ID: 0.530 (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
=====	=====	=====	=====	=====

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF WATER ANALYSIS FOR TENTATIVELY IDENTIFIED
VOLATILE ORGANIC COMPOUNDS BY GC/MS

CLIENT	: OI-2000 NIAGARA FALLS AFB	UNITS	: UG/L
TEST NAME	: PURGEABLES	MATRIX	: WATER
SAMPLE ID LAB	: Method Blank	DATE RECEIVED	: NA
SAMPLE ID CLIENT	: VBLKW1	DATE EXTRACTED	: NA
SDG #	: 23452	DATE ANALYZED	: 03/29/95
SAMPLE VOLUME	: 5.0 ML	INJECTION VOLUME	: NA
FINAL VOLUME	: NA	DILUTION FACTOR	: 1.0

9500.611

Total Hydrocarbons Present as m/z 57 - 3

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKW2

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 611

SAS No.:

SDG No.: 23452

Matrix: (soil/water) WATER

Lab Sample ID: SBLKW_03-28

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: E1815

Level: (low/med) LOW

Date Received:

% Moisture: decanted: (Y/N)

Date Extracted: 03/28/95

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 04/03/95

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GC Cleanup: (Y/N) N

pH:

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

Q

CAS NO.	COMPOUND	UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl) Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U

FORM I SV-1

3/90

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKW2

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 611

SAS No.:

SDG No.: 23452

Matrix: (soil/water) WATER

Lab Sample ID: SBLKW_03-28

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: E1815

Level: (low/med) LOW

Date Received:

% Moisture: decanted: (Y/N)

Date Extracted: 03/28/95

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 04/03/95

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH:

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

Q

CAS NO.

COMPOUND

51-28-5-----	2,4-Dinitrophenol	50	U
100-02-7-----	4-Nitrophenol	50	UU
132-64-9-----	Dibenzofuran	10	UUUU
121-14-2-----	2,4-Dinitrotoluene	10	UUUU
84-66-2-----	Diethylphthalate	10	UUUU
7005-72-3-----	4-Chlorophenyl-phenylether	10	UUUU
86-73-7-----	Fluorene	10	UUUU
100-01-6-----	4-Nitroaniline	50	UUUU
534-52-1-----	4,6-Dinitro-2-methylphenol	50	UUUU
86-30-6-----	N-Nitrosodiphenylamine (1)	10	UUUU
101-55-3-----	4-Bromophenyl-phenylether	10	UUUU
118-74-1-----	Hexachlorobenzene	10	UUUU
87-86-5-----	Pentachlorophenol	50	UUUU
85-01-8-----	Phenanthrene	10	UUUU
120-12-7-----	Anthracene	10	UUUU
86-74-8-----	Carbazole	10	UUUU
84-74-2-----	Di-n-Butylphthalate	10	UUUU
206-44-0-----	Fluoranthene	10	UUUU
92-87-5-----	Benzidine	50	UUUU
55-85-0-----	Benzoic Acid	50	UUUU
100-51-6-----	Benzyl Alcohol	10	UUUU
129-00-0-----	Pyrene	10	UUUU
85-68-7-----	Butylbenzylphthalate	10	UUUU
91-94-1-----	3,3'-Dichlorobenzidine	20	UUUU
56-55-3-----	Benzo(a)Anthracene	10	UUUU
218-01-9-----	Chrysene	10	UUUU
117-81-7-----	bis(2-Ethylhexyl) Phthalate	10	UUUU
117-84-0-----	Di-n-Octyl Phthalate	10	UUUU
205-99-2-----	Benzo(b)Fluoranthene	10	UUUU
207-08-9-----	Benzo(k)Fluoranthene	10	UUUU
50-32-8-----	Benzo(a)Pyrene	10	UUUU
193-39-5-----	Indeno(1,2,3-cd)Pyrene	10	UUUU
53-70-3-----	Dibenz(a,h)Anthracene	10	UUUU
191-24-2-----	Benzo(g,h,i)Perylene	10	UUUU

(1) - Cannot be separated from Diphenylamine
FORM I SV-2

3/90

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLKW2

Lab Name: E & E INC. Contract: _____
 Lab Code: EANDE Case No.: 611 SAS No.: _____ SDG No.: 23452
 Matrix: (soil/water) WATER Lab Sample ID: SBLKW_03-28
 Sample wt/vol: 1000 (g/mL) ML Lab File ID: E1815
 Level: (low/med) LOW Date Received: _____
 % Moisture: decanted: (Y/N) Date Extracted: 03/28/95
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/03/95
 Injection Volume: 2.0 (uL) Dilution Factor: 1.0
 GFC Cleanup: (Y/N) N pH: _____

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

TICs found: 1

AS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 12-34-22	Aldol Condensation Product	5.34	7	AJN

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF WATER ANALYSIS FOR TENTATIVELY IDENTIFIED
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS

CLIENT : NM-8000 NIAGARA FALLS AFB
TEST NAME : SEMI-VOLATILES
SAMPLE ID LAB : Method Blank
SAMPLE ID CLIENT: SBLKW2
SDG # : 23452

UNITS : UG/L
MATRIX: WATER
DATE RECEIVED : NA
DATE EXTRACTED: 03/28/95
DATE ANALYZED : 04/03/95
INJECTION VOLUME: 2.0 UL
DILUTION FACTOR : 1.0

SAMPLE VOLUME: 1000 ML
FINAL VOLUME : 1000 UL

9500.611

Total hydrocarbons
present as mass 57

4

220

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKW5

Lab Name: E & E INC. Contract: _____
 Lab Code: EANDE Case No.: 611 SAS No.: _____ SDG No.: 23452
 Matrix: (soil/water) WATER Lab Sample ID: SBLKW_04-11
 Sample wt/vol: 1000 (g/mL) ML Lab File ID: G0004
 Level: (low/med) LOW Date Received: _____
 % Moisture: decanted: (Y/N) Date Extracted: 04/11/95
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/14/95
 Injection Volume: 2.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____

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

Q

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl) Ether	10	UU
95-57-8	2-Chlorophenol	10	UUU
541-73-1	1,3-Dichlorobenzene	10	UUUU
106-46-7	1,4-Dichlorobenzene	10	UUUU
95-50-1	1,2-Dichlorobenzene	10	UUUU
95-48-7	2-Methylphenol	10	UUUU
108-60-1	2,2'-oxybis(1-Chloropropane)	10	UUUU
106-44-5	4-Methylphenol	10	UUUU
621-64-7	N-Nitroso-Di-n-Propylamine	10	UUUU
67-72-1	Hexachloroethane	10	UUUU
98-95-3	Nitrobenzene	10	UUUU
78-59-1	Isophorone	10	UUUU
88-75-5	2-Nitrophenol	10	UUUU
105-67-9	2,4-Dimethylphenol	10	UUUU
111-91-1	bis(2-Chloroethoxy)Methane	10	UUUU
120-83-2	2,4-Dichlorophenol	10	UUUU
120-82-1	1,2,4-Trichlorobenzene	10	UUUU
91-20-3	Naphthalene	10	UUUU
106-47-8	4-Chloroaniline	10	UUUU
87-68-3	Hexachlorobutadiene	10	UUUU
59-50-7	4-Chloro-3-Methylphenol	10	UUUU
91-57-6	2-Methylnaphthalene	10	UUUU
77-47-4	Hexachlorocyclopentadiene	10	UUUU
88-06-2	2,4,6-Trichlorophenol	10	UUUU
95-95-4	2,4,5-Trichlorophenol	50	UUUU
91-58-7	2-Chloronaphthalene	10	UUUU
88-74-4	2-Nitroaniline	50	UUUU
131-11-3	Dimethylphthalate	10	UUUU
208-96-8	Acenaphthylene	10	UUUU
606-20-2	2,6-Dinitrotoluene	10	UUUU
99-09-2	3-Nitroaniline	50	UUUU
83-32-9	Acenaphthene	10	UUUU

FORM I SV-1

3/90

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKW5

Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 611

SAS No.:

SDG No.: 23452

Matrix: (soil/water) WATER

Lab Sample ID: SBLKW_04-11

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: G0004

Level: (low/med) LOW

Date Received:

% Moisture: decanted: (Y/N)

Date Extracted: 04/11/95

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 04/14/95

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

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

CAS NO.

COMPOUND

Q

51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	UU
132-64-9	Dibenzofuran	10	UU
121-14-2	2,4-Dinitrotoluene	10	UU
84-66-2	Diethylphthalate	10	UU
7005-72-3	4-Chlorophenyl-phenylether	10	UU
86-73-7	Fluorene	10	UU
100-01-6	4-Nitroaniline	50	UU
534-52-1	4,6-Dinitro-2-methylphenol	50	UU
86-30-6	N-Nitrosodiphenylamine (1)	10	UU
101-55-3	4-Bromophenyl-phenylether	10	UU
118-74-1	Hexachlorobenzene	10	UU
87-86-5	Pentachlorophenol	50	UU
85-01-8	Phenanthrene	10	UU
120-12-7	Anthracene	10	UU
86-74-8	Carbazole	10	UU
84-74-2	Di-n-Butylphthalate	10	UU
206-44-0	Fluoranthene	10	UU
92-87-5	Benzidine	50	UU
55-85-0	Benzoic Acid	50	UU
100-51-6	Benzyl Alcohol	10	UU
129-00-0	Pyrene	10	UU
85-68-7	Butylbenzylphthalate	10	UU
91-94-1	3,3'-Dichlorobenzidine	20	UU
56-55-3	Benzo(a)Anthracene	10	UU
218-01-9	Chrysene	10	UU
117-81-7	bis(2-Ethylhexyl)Phthalate	10	UU
117-84-0	Di-n-Octyl Phthalate	10	UU
205-99-2	Benzo(b)Fluoranthene	10	UU
207-08-9	Benzo(k)Fluoranthene	10	UU
50-32-8	Benzo(a)Pyrene	10	UU
193-39-5	Indeno(1,2,3-cd)Pyrene	10	UU
53-70-3	Dibenz(a,h)Anthracene	10	UU
191-24-2	Benzo(g,h,i)Perylene	10	U

(1) - Cannot be separated from Diphenylamine
FORM I SV-2

3/90

F-471

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLKW5

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 611

SAS No.:

SDG No.: 23452

Matrix: (soil/water) WATER

Lab Sample ID: SBLKW_04-11

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: G0004

Level: (low/med) LOW

Date Received:

% Moisture: decanted: (Y/N)

Date Extracted: 04/11/95

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 04/14/95

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

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

Number TICs found: 1

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 12-34-22	Aldol Condensation Product	3.77	8	AJN

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF WATER ANALYSIS FOR TENTATIVELY IDENTIFIED
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS

CLIENT : NM-8000 NIAGARA FALLS AFB
TEST NAME : SEMI-VOLATILES
SAMPLE ID LAB : Method Blank
SAMPLE ID CLIENT: SBLKW5
SDG # : 23452

UNITS : UG/L
MATRIX: WATER
DATE RECEIVED : NA
DATE EXTRACTED: 04/11/95
DATE ANALYZED : 04/14/95
INJECTION VOLUME: 2.0 UL
DILUTION FACTOR : 1.0

SAMPLE VOLUME: 1000 ML
FINAL VOLUME : 1000 UL

9500.611

Total hydrocarbons
present as mass 57

7

260

TEST CODE :WPCB 1

JOB NUMBER :9500.611/9500.629

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NM-8000 NIAGARA FALLS AFB

TEST NAME : PCB

UNITS : UG/L

SAMPLE ID LAB : METHOD BLANK (1149)

MATRIX: WATER

DATE EXTRACTED: 03/23/95

DATE ANALYZED : 03/30/95

SAMPLE VOLUME: 1000 mLs

INJECTION VOLUME: 4.0 uL

FINAL VOLUME : 1.0 mL

DILUTION FACTOR : 1.0

PARAMETER	RESULTS	Q	QNT. LIMIT
PCB-1242	ND		0.50
PCB-1254	ND		0.50
PCB-1221	ND		0.50
PCB-1232	ND		0.50
PCB-1248	ND		0.50
PCB-1260	ND		0.50
PCB-1016	ND		0.50

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

B = ALSO PRESENT IN BLANK

N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE

TEST CODE :WPCB 1

JOB NUMBER :9500.611/9500.629

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NM-8000 NIAGARA FALLS AFB

TEST NAME : PCB

UNITS : UG/L

SAMPLE ID LAB : METHOD BLANK (1231)

MATRIX: WATER

DATE EXTRACTED: 03/23/95

DATE ANALYZED : 03/30/95

SAMPLE VOLUME: 1000 mLs

INJECTION VOLUME: 4.0 uL

FINAL VOLUME : 1.0 mL

DILUTION FACTOR : 1.0

PARAMETER	RESULTS	Q	QNT. LIMIT
PCB-1242	ND		0.50
PCB-1254	ND		0.50
PCB-1221	ND		0.50
PCB-1232	ND		0.50
PCB-1248	ND		0.50
PCB-1260	ND		0.50
PCB-1016.	ND		0.50

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

B = ALSO PRESENT IN BLANK

N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE

TEST CODE :WPCB 1

JOB NUMBER :9500.611/9500.629

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NM-8000 NIAGARA FALLS AFB

TEST NAME : PCB

UNITS : UG/L

SAMPLE ID LAB : METHOD BLANK (1239)

MATRIX: WATER

DATE EXTRACTED: 03/23/95

DATE ANALYZED : 03/30/95

SAMPLE VOLUME: 1000 mLs

INJECTION VOLUME: 4.0 uL

FINAL VOLUME : 1.0 mL

DILUTION FACTOR : 1.0

PARAMETER	RESULTS	Q	QNT. LIMIT
PCB-1242	ND		0.50
PCB-1254	ND		0.50
PCB-1221	ND		0.50
PCB-1232	ND		0.50
PCB-1248	ND		0.50
PCB-1260	ND		0.50
PCB-1016	ND		0.50

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

B = ALSO PRESENT IN BLANK

N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE

JOB NUMBER : 9500.611/9500.629

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NM-8000 NIAGARA FALLS AFB

SAMPLE ID LAB : METHOD BLANK (712)

MATRIX: WATER

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	ND		5.0	UG/L
Antimony	ND		60	UG/L
Beryllium	ND		5.0	UG/L
Cadmium	ND		5.0	UG/L
Chromium Total	ND		10	UG/L
Copper	ND		20	UG/L
Nickel	ND		20	UG/L
Silver	ND		10	UG/L
Zinc	ND		10	UG/L

QUALIFIERS: C = COMMENT
 J = ESTIMATED VALUE

ND = NOT DETECTED

JOB NUMBER : 9500.611/9500.629

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NM-8000 NIAGARA FALLS AFB

SAMPLE ID LAB : METHOD BLANK (713) MATRIX: WATER

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Arsenic	ND		5.0	UG/L
Lead	ND		5.0	UG/L
Selenium	ND		5.0	UG/L
Thallium	ND		5.0	UG/L

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

JOB NUMBER :9500.629

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NM-8000 NIAGARA FALLS AFB
SAMPLE ID LAB : METHOD BLANK (714) MATRIX: WATER

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Antimony	ND		60	UG/L
Beryllium	ND		5.0	UG/L
Cadmium	ND		5.0	UG/L
Chromium Total	ND		10	UG/L
Copper	ND		20	UG/L
Nickel	ND		20	UG/L
Silver	ND		10	UG/L
Zinc	ND		10	UG/L

QUALIFIERS: C = COMMENT
 J = ESTIMATED VALUE

ND = NOT DETECTED

JOB NUMBER : 9500.629

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NM-8000 NIAGARA FALLS AFB

SAMPLE ID LAB : METHOD BLANK (715) MATRIX: WATER

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Arsenic	ND		5.0	UG/L
Lead	ND		5.0	UG/L
Selenium	ND		5.0	UG/L
Thallium	ND		5.0	UG/L

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

JOB NUMBER : 9500.611/9500.629

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NM-8000 NIAGARA FALLS AFB
SAMPLE ID LAB : METHOD BLANK (03/30) MATRIX: WATER

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Mercury	ND		0.20	UG/L

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE

307

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKW1

Name: E & E INC. Contract: _____

Lab Code: EANDE Case No.: 646 SAS No.: _____ SDG No.: 23714

Matrix: (soil/water) WATER Lab Sample ID: VOA_BLANK

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: F1062

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. Date Analyzed: 03/30/95

GC Column: VOCOL ID: 0.530 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

1E
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKW1

o Name: E & E INC.

Contract:

b Code: EANDE

Case No.: 646

SAS No.:

SDG No.: 23714

Matrix: (soil/water) WATER

Lab Sample ID: VOA_BLANK

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: F1062

Level: (low/med) LOW

Date Received:

% Moisture: not dec.

Date Analyzed: 03/30/95

GC Column: VOCOL ID: 0.530 (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
=====	=====	=====	=====	=====

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF WATER ANALYSIS FOR TENTATIVELY IDENTIFIED
VOLATILE ORGANIC COMPOUNDS BY GC/MS

CLIENT : OI-2000 NIAGARA FALLS APB
TEST NAME : PURGEABLES UNITS : UG/L
SAMPLE ID LAB : Method Blank MATRIX: WATER
SAMPLE ID CLIENT: VBLKW1 DATE RECEIVED : NA
SDG # : 23714 DATE EXTRACTED: NA
DATE ANALYZED : 03/30/95
SAMPLE VOLUME: 5.0 ML INJECTION VOLUME: NA
FINAL VOLUME : NA DILUTION FACTOR : 1.0

9500.646

Total Hydrocarbons Present as m/z 57 - 3

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKW2

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 646

SAS No.:

SDG No.: 23714

Matrix: (soil/water) WATER

Lab Sample ID: VOA_BLANK

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: F1083

Level: (low/med) LOW

Date Received:

% Moisture: not dec.

Date Analyzed: 03/31/95

GC Column: VOCOL ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

74-87-3	-----Chloromethane	10	U
74-83-9	-----Bromomethane	10	U
75-01-4	-----Vinyl Chloride	10	U
75-00-3	-----Chloroethane	10	U
75-09-2	-----Methylene Chloride	5	U
67-64-1	-----Acetone	10	U
75-15-0	-----Carbon Disulfide	5	U
75-35-4	-----1,1-Dichloroethene	5	U
75-34-3	-----1,1-Dichloroethane	5	U
156-59-2	-----cis-1,2-Dichloroethene	5	U
156-60-5	-----trans-1,2-Dichloroethene	5	U
67-66-3	-----Chloroform	5	U
107-06-2	-----1,2-Dichloroethane	5	U
78-93-3	-----2-Butanone	10	U
71-55-6	-----1,1,1-Trichloroethane	5	U
56-23-5	-----Carbon Tetrachloride	5	U
75-27-4	-----Bromodichloromethane	5	U
78-87-5	-----1,2-Dichloropropane	5	U
10061-01-5	-----cis-1,3-Dichloropropene	5	U
79-01-6	-----Trichloroethene	5	U
124-48-1	-----Dibromochloromethane	5	U
79-00-5	-----1,1,2-Trichloroethane	5	U
71-43-2	-----Benzene	5	U
10061-02-6	-----trans-1,3-Dichloropropene	5	U
75-25-2	-----Bromoform	5	U
108-10-1	-----4-Methyl-2-Pentanone	10	U
591-78-6	-----2-Hexanone	10	U
127-18-4	-----Tetrachloroethene	5	U
79-34-5	-----1,1,2,2-Tetrachloroethane	5	U
108-88-3	-----Toluene	5	U
108-90-7	-----Chlorobenzene	5	U
100-41-4	-----Ethylbenzene	5	U
100-42-5	-----Styrene	5	U
1330-20-7	-----Xylene (total)	5	U

1E
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKW2

Name: E & E INC. Contract: _____
 Lab Code: EANDE Case No.: 646 SAS No.: _____ SDG No.: 23714
 Matrix: (soil/water) WATER Lab Sample ID: VOA_BLANK
 Sample wt/vol: 5.0 (g/mL) ML Lab File ID: F1083
 Level: (low/med) LOW Date Received: _____
 % Moisture: not dec. Date Analyzed: 03/31/95
 GC Column: VOCOL ID: 0.530 (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

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF WATER ANALYSIS FOR TENTATIVELY IDENTIFIED
VOLATILE ORGANIC COMPOUNDS BY GC/MS

CLIENT	: OI-2000 NIAGARA FALLS AFB	UNITS	: UG/L
TEST NAME	: PURGEABLES	MATRIX	: WATER
SAMPLE ID LAB	: Method Blank	DATE RECEIVED	: NA
SAMPLE ID CLIENT	: VBLKW2	DATE EXTRACTED	: NA
SDG #	: 23714	DATE ANALYZED	: 03/31/95
SAMPLE VOLUME	: 5.0 ML	INJECTION VOLUME	: NA
FINAL VOLUME	: NA	DILUTION FACTOR	: 1.0

9500.646

Total Hydrocarbons Present as m/z 57 - 4

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW3-1-WO

Name: E & E INC. Contract: _____
 Lab Code: EANDE Case No.: 646 SAS No.: _____ SDG No.: 23714
 Matrix: (soil/water) WATER Lab Sample ID: 23714
 Sample wt/vol: 1000 (g/mL) ML Lab File ID: I1439
 Level: (low/med) LOW Date Received: 03/24/95
 % Moisture: decanted: (Y/N) Date Extracted: 03/29/95
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/04/95
 Injection Volume: 2.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____

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

Number TICs found: 2

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 12-34-22	Aldol Condensation Product	5.57	52	ABJN
2.	UNKNOWN .	9.55	4	J

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF WATER ANALYSIS FOR TENTATIVELY IDENTIFIED
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS

CLIENT : NM-8000 NIAGARA FALLS AFB
TEST NAME : SEMI-VOLATILES
SAMPLE ID LAB : EE-95-23714
SAMPLE ID CLIENT: NM8-MW3-1-WO-032495
SDG # : 23714
UNITS : UG/L
MATRIX: WATER
DATE RECEIVED : 03/24/95
DATE EXTRACTED: 03/29/95
DATE ANALYZED : 04/04/95
INJECTION VOLUME: 2.0 UL
DILUTION FACTOR : 1.0
SAMPLE VOLUME: 1000 ML
FINAL VOLUME : 1000 UL

9500.646

Total hydrocarbons
present as mass 57 4

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW3-2-WO

Name: E & E INC. Contract: _____

Lab Code: EANDE Case No.: 646 SAS No.: _____ SDG No.: 23714

Matrix: (soil/water) WATER Lab Sample ID: 23715

Sample wt/vol: 1000 (g/mL) ML Lab File ID: I1440

Level: (low/med) LOW Date Received: 03/24/95

% Moisture: decanted: (Y/N) Date Extracted: 03/29/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/04/95

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

Number TICs found: 1

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 12-34-22	Aldol Condensation Product	5.54	9	ABJN

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF WATER ANALYSIS FOR TENTATIVELY IDENTIFIED
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS

CLIENT	: NM-8000 NIAGARA FALLS AFB	UNITS	: UG/L
TEST NAME	: SEMI-VOLATILES	MATRIX	: WATER
SAMPLE ID LAB	: EE-95-23715	DATE RECEIVED	: 03/24/95
SAMPLE ID CLIENT	: NM8-MW3-2-WO-032495	DATE EXTRACTED	: 03/29/95
SDG #	: 23714	DATE ANALYZED	: 04/04/95
SAMPLE VOLUME	: 1000 ML	INJECTION VOLUME	: 2.0 UL
FINAL VOLUME	: 1000 UL	DILUTION FACTOR	: 1.0

9500.646

Total hydrocarbons
present as mass 57 3

0 91

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW3-3-WO

Name: E & E INC.

Contract:

Lab Code: EANDE Case No.: 646 SAS No.: SDG No.: 23714

Matrix: (soil/water) WATER Lab Sample ID: 23716

Sample wt/vol: 1000 (g/mL) ML Lab File ID: I1441

Level: (low/med) LOW Date Received: 03/24/95

% Moisture: decanted: (Y/N) Date Extracted: 03/29/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/04/95

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs found: 2 CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 12-34-22	Aldol Condensation Product	5.53	7	ABJN
2.	UNKNOWN	16.40	27	J

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF WATER ANALYSIS FOR TENTATIVELY IDENTIFIED
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS

CLIENT	: NM-8000 NIAGARA FALLS AFB	UNITS	: UG/L
TEST NAME	: SEMI-VOLATILES	MATRIX	: WATER
SAMPLE ID LAB	: EE-95-23716	DATE RECEIVED	: 03/24/95
SAMPLE ID CLIENT	: NM8-MW3-3-WO-032495	DATE EXTRACTED	: 03/29/95
SDG #	: 23714	DATE ANALYZED	: 04/04/95
SAMPLE VOLUME	: 1000 ML	INJECTION VOLUME	: 2.0 UL
FINAL VOLUME	: 1000 UL	DILUTION FACTOR	: 1.0

9500.646

Total hydrocarbons
present as mass 57 5

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW3-3-WORE

Name: E & E INC. Contract: _____
 Lab Code: EANDE Case No.: 646 SAS No.: _____ SDG No.: 23714
 Matrix: (soil/water) WATER Lab Sample ID: 23716RE
 Sample wt/vol: 1000 (g/mL) ML Lab File ID: G0009
 Level: (low/med) LOW Date Received: 03/24/95
 % Moisture: decanted: (Y/N) Date Extracted: 04/11/95
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/14/95
 Injection Volume: 2.0(uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____

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

Number TICs found: 2

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 12-34-22	Aldol Condensation Product	3.74	7	ABJN
2.	UNKNOWN	26.74	48	J

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF WATER ANALYSIS FOR TENTATIVELY IDENTIFIED
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS

CLIENT : NM-8000 NIAGARA FALLS AFB

TEST NAME : SEMI-VOLATILES

SAMPLE ID LAB : EE-95-23716 RE

SAMPLE ID CLIENT: NM8-MW3-3-WO-032495

SDG # : 23714

UNITS : UG/L

MATRIX: WATER

DATE RECEIVED : 03/24/95

DATE EXTRACTED: 04/11/95

DATE ANALYZED : 04/14/95

SAMPLE VOLUME: 1000 ML

INJECTION VOLUME: 2.0 UL

FINAL VOLUME : 1000 UL

DILUTION FACTOR : 1.0

9500.646

Total hydrocarbons
present as mass 57

10

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKW1

Client Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 646

SAS No.:

SDG No.: 23714

Matrix: (soil/water) WATER

Lab Sample ID: SBLKW_03-29

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: I1418

Level: (low/med) LOW

Date Received:

Moisture: decanted: (Y/N)

Date Extracted: 03/29/95

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 04/03/95

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

PC Cleanup: (Y/N) N

pH:

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

CAS NO. COMPOUND UG/L Q

108-95-2-----	Phenol	10	U
111-44-4-----	bis(2-Chloroethyl)Ether	10	U
95-57-8-----	2-Chlorophenol	10	U
541-73-1-----	1,3-Dichlorobenzene	10	U
106-46-7-----	1,4-Dichlorobenzene	10	U
95-50-1-----	1,2-Dichlorobenzene	10	U
95-48-7-----	2-Methylphenol	10	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5-----	4-Methylphenol	10	U
621-64-7-----	N-Nitroso-Di-n-Propylamine	10	U
67-72-1-----	Hexachloroethane	10	U
98-95-3-----	Nitrobenzene	10	U
78-59-1-----	Isophorone	10	U
88-75-5-----	2-Nitrophenol	10	U
105-67-9-----	2,4-Dimethylphenol	10	U
111-91-1-----	bis(2-Chloroethoxy)Methane	10	U
120-83-2-----	2,4-Dichlorophenol	10	U
120-82-1-----	1,2,4-Trichlorobenzene	10	U
91-20-3-----	Naphthalene	10	U
106-47-8-----	4-Chloroaniline	10	U
87-68-3-----	Hexachlorobutadiene	10	U
59-50-7-----	4-Chloro-3-Methylphenol	10	U
91-57-6-----	2-Methylnaphthalene	10	U
77-47-4-----	Hexachlorocyclopentadiene	10	U
88-06-2-----	2,4,6-Trichlorophenol	10	U
95-95-4-----	2,4,5-Trichlorophenol	50	U
91-58-7-----	2-Chloronaphthalene	10	U
88-74-4-----	2-Nitroaniline	50	U
131-11-3-----	Dimethylphthalate	10	U
208-96-8-----	Acenaphthylene	10	U
606-20-2-----	2,6-Dinitrotoluene	10	U
99-09-2-----	3-Nitroaniline	50	U
83-32-9-----	Acenaphthene	10	U

FORM I SV-1

3/90

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.:

SBLKW1

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 646

SAS No.:

SDG No.: 23714

Matrix: (soil/water) WATER

Lab Sample ID: SBLKW_03-29

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: I1418

Level: (low/med) LOW

Date Received:

% Moisture: decanted: (Y/N)

Date Extracted: 03/29/95

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 04/03/95

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

Cleanup: (Y/N) N

pH:

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

CAS NO. COMPOUND Q

51-28-5-----	2,4-Dinitrophenol	50	U
100-02-7-----	4-Nitrophenol	50	UU
132-64-9-----	Dibenzofuran	10	UUU
121-14-2-----	2,4-Dinitrotoluene	10	UUUU
84-66-2-----	Diethylphthalate	10	UUUUU
7005-72-3-----	4-Chlorophenyl-phenylether	10	UUUUUU
86-73-7-----	Fluorene	10	UUUUUUU
100-01-6-----	4-Nitroaniline	50	UUUUUUU
534-52-1-----	4,6-Dinitro-2-methylphenol	50	UUUUUUU
86-30-6-----	N-Nitrosodiphenylamine (1)	10	UUUUUUU
101-55-3-----	4-Bromophenyl-phenylether	10	UUUUUUU
118-74-1-----	Hexachlorobenzene	10	UUUUUUU
87-86-5-----	Pentachlorophenol	50	UUUUUUU
85-01-8-----	Phenanthrene	10	UUUUUUU
120-12-7-----	Anthracene	10	UUUUUUU
86-74-8-----	Carbazole	10	UUUUUUU
84-74-2-----	Di-n-Butylphthalate	10	UUUUUUU
206-44-0-----	Fluoranthene	10	UUUUUUU
92-87-5-----	Benzidine	50	UUUUUUU
55-85-0-----	Benzoic Acid	50	UUUUUUU
100-51-6-----	Benzyl Alcohol	10	UUUUUUU
129-00-0-----	Pyrene	10	UUUUUUU
85-68-7-----	Butylbenzylphthalate	10	UUUUUUU
91-94-1-----	3,3'-Dichlorobenzidine	20	UUUUUUU
56-55-3-----	Benzo(a)Anthracene	10	UUUUUUU
218-01-9-----	Chrysene	10	UUUUUUU
117-81-7-----	bis(2-Ethylhexyl)Phthalate	10	UUUUUUU
117-84-0-----	Di-n-Octyl Phthalate	10	UUUUUUU
205-99-2-----	Benzo(b)Fluoranthene	10	UUUUUUU
207-08-9-----	Benzo(k)Fluoranthene	10	UUUUUUU
50-32-8-----	Benzo(a)Pyrene	10	UUUUUUU
193-39-5-----	Indeno(1,2,3-cd)Pyrene	10	UUUUUUU
53-70-3-----	Dibenz(a,h)Anthracene	10	UUUUUUU
191-24-2-----	Benzo(g,h,i)Perylene	10	UUUUUUU

(1) - Cannot be separated from Diphenylamine
FORM I SV-2

3/90

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLKW1

Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 646

SAS No.:

SDG No.: 23714

Matrix: (soil/water) WATER

Lab Sample ID: SBLKW_03-29

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: I1418

Level: (low/med) LOW

Date Received:

% Moisture: decanted: (Y/N)

Date Extracted: 03/29/95

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 04/03/95

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH:

Number TICs found: 2

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 12-34-22	Aldol Condensation Product	5.54	25	AJN
2.	UNKNOWN	7.94	4	J

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF WATER ANALYSIS FOR TENTATIVELY IDENTIFIED
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS

CLIENT : NM-8000 NIAGARA FALLS AFB

TEST NAME : SEMI-VOLATILES

SAMPLE ID LAB : Method Blank

SAMPLE ID CLIENT: SBLKW1

SDG # : 23714

SAMPLE VOLUME: 1000 ML

FINAL VOLUME : 1000 UL

UNITS : UG/L

MATRIX: WATER

DATE RECEIVED : NA

DATE EXTRACTED: 03/29/95

DATE ANALYZED : 04/03/95

INJECTION VOLUME: 2.0 UL

DILUTION FACTOR : 1.0

9500.646

Total hydrocarbons
present as mass 57

3

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKW2

Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 646

SAS No.:

SDG No.: 23714

Matrix: (soil/water) WATER

Lab Sample ID: SBLKW_04-11

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: G0004

Level: (low/med) LOW

Date Received:

% Moisture: decanted: (Y/N)

Date Extracted: 04/11/95

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 04/14/95

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH:

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

Q

CAS NO.

COMPOUND

108-95-2-----	Phenol	10	U
111-44-4-----	bis(2-Chloroethyl) Ether	10	U
95-57-8-----	2-Chlorophenol	10	U
541-73-1-----	1,3-Dichlorobenzene	10	U
106-46-7-----	1,4-Dichlorobenzene	10	U
95-50-1-----	1,2-Dichlorobenzene	10	U
95-48-7-----	2-Methylphenol	10	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5-----	4-Methylphenol	10	U
621-64-7-----	N-Nitroso-Di-n-Propylamine	10	U
67-72-1-----	Hexachloroethane	10	U
98-95-3-----	Nitrobenzene	10	U
78-59-1-----	Isophorone	10	U
88-75-5-----	2-Nitrophenol	10	U
105-67-9-----	2,4-Dimethylphenol	10	U
111-91-1-----	bis(2-Chloroethoxy)Methane	10	U
120-83-2-----	2,4-Dichlorophenol	10	U
120-82-1-----	1,2,4-Trichlorobenzene	10	U
91-20-3-----	Naphthalene	10	U
106-47-8-----	4-Chloroaniline	10	U
87-68-3-----	Hexachlorobutadiene	10	U
59-50-7-----	4-Chloro-3-Methylphenol	10	U
91-57-6-----	2-Methylnaphthalene	10	U
77-47-4-----	Hexachlorocyclopentadiene	10	U
88-06-2-----	2,4,6-Trichlorophenol	10	U
95-95-4-----	2,4,5-Trichlorophenol	50	U
91-58-7-----	2-Chloronaphthalene	10	U
88-74-4-----	2-Nitroaniline	50	U
131-11-3-----	Dimethylphthalate	10	U
208-96-8-----	Acenaphthylene	10	U
606-20-2-----	2,6-Dinitrotoluene	10	U
99-09-2-----	3-Nitroaniline	50	U
83-32-9-----	Acenaphthene	10	U

FORM I SV-1

3/90

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKW2

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 646

SAS No.:

SDG No.: 23714

Matrix: (soil/water) WATER

Lab Sample ID: SBLKW_04-11

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: G0004

Level: (low/med) LOW

Date Received:

% Moisture: decanted: (Y/N)

Date Extracted: 04/11/95

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 04/14/95

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

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

CAS NO. COMPOUND UG/L Q

51-28-5-----	2,4-Dinitrophenol	50	U
100-02-7-----	4-Nitrophenol	50	UU
132-64-9-----	Dibenzofuran	10	UU
121-14-2-----	2,4-Dinitrotoluene	10	UU
84-66-2-----	Diethylphthalate	10	UU
7005-72-3-----	4-Chlorophenyl-phenylether	10	UU
86-73-7-----	Fluorene	10	UU
100-01-6-----	4-Nitroaniline	50	UU
534-52-1-----	4,6-Dinitro-2-methylphenol	50	UU
86-30-6-----	N-Nitrosodiphenylamine (1)	10	UU
101-55-3-----	4-Bromophenyl-phenylether	10	UU
118-74-1-----	Hexachlorobenzene	10	UU
87-86-5-----	Pentachlorophenol	50	UU
85-01-8-----	Phenanthrene	10	UU
120-12-7-----	Anthracene	10	UU
86-74-8-----	Carbazole	10	UU
84-74-2-----	Di-n-Butylphthalate	10	UU
206-44-0-----	Fluoranthene	10	UU
92-87-5-----	Benzidine	50	UU
55-85-0-----	Benzoic Acid	50	UU
100-51-6-----	Benzyl Alcohol	10	UU
129-00-0-----	Pyrene	10	UU
85-68-7-----	Butylbenzylphthalate	10	UU
91-94-1-----	3,3'-Dichlorobenzidine	20	UU
56-55-3-----	Benzo(a)Anthracene	10	UU
218-01-9-----	Chrysene	10	UU
117-81-7-----	bis(2-Ethylhexyl) Phthalate	10	UU
117-84-0-----	Di-n-Octyl Phthalate	10	UU
205-99-2-----	Benzo(b) Fluoranthene	10	UU
207-08-9-----	Benzo(k) Fluoranthene	10	UU
50-32-8-----	Benzo(a) Pyrene	10	UU
193-39-5-----	Indeno(1,2,3-cd) Pyrene	10	UU
53-70-3-----	Dibenz(a,h) Anthracene	10	UU
191-24-2-----	Benzo(g,h,i) Perylene	10	U

(1) - Cannot be separated from Diphenylamine
FORM I SV-2

3/90

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLKW2

Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 646

SAS No.:

SDG No.: 23714

Matrix: (soil/water) WATER

Lab Sample ID: SBLKW_04-11

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: G0004

Level: (low/med) LOW

Date Received:

Moisture: decanted: (Y/N)

Date Extracted: 04/11/95

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 04/14/95

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

SPC Cleanup: (Y/N) N pH:

Number TICs found: 1

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 12-34-22	Aldol Condensation Product	3.77	8	AJN

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF WATER ANALYSIS FOR TENTATIVELY IDENTIFIED
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS

CLIENT : NM-8000 NIAGARA FALLS AFB
TEST NAME : SEMI-VOLATILES
SAMPLE ID LAB : Method Blank
SAMPLE ID CLIENT: SBLKW2
SDG # : 23714

SAMPLE VOLUME: 1000 ML
FINAL VOLUME : 1000 UL

UNITS : UG/L
MATRIX: WATER
DATE RECEIVED : NA
DATE EXTRACTED: 04/11/95
DATE ANALYZED : 04/14/95
INJECTION VOLUME: 2.0 UL
DILUTION FACTOR : 1.0

9500.646

Total hydrocarbons
present as mass 57 7

TEST CODE : WPCB 1

JOB NUMBER : 9500.646

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NM-8000 NIAGARA FALLS AFB

TEST NAME : PCB

UNITS : UG/L

SAMPLE ID LAB : METHOD BLANK (1239)

MATRIX: WATER

DATE EXTRACTED: 03/29/95

DATE ANALYZED : 04/06/95

SAMPLE VOLUME: 1000 mL

INJECTION VOLUME: 4 uL

FINAL VOLUME : 1.0 mL

DILUTION FACTOR : 1.0

PARAMETER	RESULTS	Q	QNT. LIMIT
PCB-1242	ND		0.50
PCB-1254	ND		0.50
PCB-1221	ND		0.50
PCB-1232	ND		0.50
PCB-1248	ND		0.50
PCB-1260	ND		0.50
PCB-1016	ND		0.50

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

B = ALSO PRESENT IN BLANK

N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE

JOB NUMBER : 9500.646

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NM-8000 NIAGARA FALLS AFB

SAMPLE ID LAB : METHOD BLANK (729)

MATRIX: WATER

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Antimony	ND		60	UG/L
Beryllium	ND		5.0	UG/L
Cadmium	ND		5.0	UG/L
Chromium Total	ND		10	UG/L
Copper	ND		20	UG/L
Nickel	ND		20	UG/L
Silver	ND		10	UG/L
Zinc	ND		10	UG/L

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

JOB NUMBER : 9500.646
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NM-8000 NIAGARA FALLS AFB
SAMPLE ID LAB : METHOD BLANK (730) MATRIX: WATER

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Arsenic	ND		5.0	UG/L
Lead	ND		5.0	UG/L
Selenium	ND		5.0	UG/L
Thallium	ND		5.0	UG/L

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE

JOB NUMBER : 9500.646

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NM-8000 NIAGARA FALLS AFB
SAMPLE ID LAB : METHOD BLANK (3/30) MATRIX: WATER

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Mercury	ND		0.20	UG/L

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

TEST CODE : SPURG 1

JOB NUMBER : 9500.340

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NM-9000 RFI SITE 3 - NFAFB AFRES
TEST NAME : PURGEABLES UNITS : UG/KG
SAMPLE ID LAB : METHOD BLANK (02/17) MATRIX : SOLID
DATE EXTRACTED: NA
DATE ANALYZED : 02/17/95

SAMPLE VOLUME: 5 mL
FINAL VOLUME : NA

INJECTION VOLUME: NA
DILUTION FACTOR : 1.0

PARAMETER	RESULTS	Q	QNT. LIMIT
Chloromethane	ND		10
Bromomethane	ND		10
Vinyl chloride	ND		10
Chloroethane	ND		10
Methylene chloride	ND		5.0
1,1-Dichloroethene	ND		5.0
1,1-Dichloroethane	ND		5.0
cis-1,2-Dichloroethene	ND		5.0
trans-1,2-Dichloroethene	ND		5.0
Chloroform	ND		5.0
1,2-Dichloroethane	ND		5.0
1,1,1-Trichloroethane	ND		5.0
Carbon tetrachloride	ND		5.0
Bromodichloromethane	ND		5.0
1,2-Dichloropropane	ND		5.0
trans-1,3-dichloropropene	ND		5.0
Trichloroethene	ND		5.0
Dibromochloromethane	ND		5.0
1,1,2-Trichloroethane	ND		5.0
Benzene	ND		5.0
cis-1,3-dichloropropene	ND		5.0
2-Chloroethylvinyl ether	ND		10
Bromoform	ND		5.0
Tetrachloroethene	ND		5.0
1,1,2,2-Tetrachloroethane	ND		5.0
Toluene	ND		5.0
Chlorobenzene	ND		5.0
Ethylbenzene	ND		5.0
Acetone	13		10
Carbon disulfide	ND		5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 X = EXCEEDS CALIBRATION LIMIT
 N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE
 A = PHENOMENON OF METHODOLOGY WITH ACID PRESERVATION
 NA = NOT APPLICABLE

TEST CODE : SPURG 1

JOB NUMBER : 9500.340

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NM-9000 RFI SITE 3 - NFAFB AFRES
TEST NAME : PURGEABLES UNITS : UG/KG
SAMPLE ID LAB : METHOD BLANK (02/17) MATRIX : SOLID
DATE EXTRACTED: NA
DATE ANALYZED : 02/17/95

SAMPLE VOLUME: 5 mL
FINAL VOLUME : NA

INJECTION VOLUME: NA
DILUTION FACTOR : 1.0

PARAMETER	RESULTS	Q	QNT. LIMIT
2-Butanone	ND		10
Vinyl acetate	ND		10
2-Hexanone	ND		10
Styrene	ND		5.0
Total xylenes	ND		5.0
4-Methyl-2-pentanone	ND		10

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
X = EXCEEDS CALIBRATION LIMIT
N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE
A = PHENOMENON OF METHODOLOGY WITH ACID PRESERVATION
NA = NOT APPLICABLE

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF WATER ANALYSIS FOR TENTATIVELY IDENTIFIED
VOLATILE ORGANIC COMPOUNDS BY GC/MS

(all results in ug/Kg)

CLIENT : NM-9000 RFI SITE 3 - NFAFB AFRES
TEST NAME : PURGEABLES UNITS : UG/KG
SAMPLE ID LAB : METHOD BLANK (02/17) MATRIX: SOLID
DATE EXTRACTED: NA
DATE ANALYZED : 02/17/95
INJECTION VOLUME: NA
DILUTION FACTOR : 1.0
SAMPLE VOLUME: 5 g
FINAL VOLUME : NA

Compound

None Detected

Total Hydrocarbons Present as m/z 57 - 4

** Values are approximate retention times, in minutes.

TEST CODE : WPURG 1

JOB NUMBER : 9500.340/9500.353

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NM-9000 RFI SITE 3 - NFAFB AFRES

TEST NAME : PURGEABLES

UNITS : UG/L

SAMPLE ID LAB : METHOD BLANK (02/20)

MATRIX: WATER

DATE EXTRACTED: NA

DATE ANALYZED : 02/20/95

SAMPLE VOLUME: 5 mL

INJECTION VOLUME: NA

FINAL VOLUME : NA

DILUTION FACTOR : 1.0

PARAMETER	RESULTS	Q	QNT. LIMIT
-----	-----	-	-----
Chloromethane	ND		10
Bromomethane	ND		10
Vinyl chloride	ND		10
Chloroethane	ND		10
Methylene chloride	ND		5.0
1,1-Dichloroethene	ND		5.0
1,1-Dichloroethane	ND		5.0
cis-1,2-Dichloroethene	ND		5.0
trans-1,2-Dichloroethene	ND		5.0
Chloroform	ND		5.0
1,2-Dichloroethane	ND		5.0
1,1,1-Trichloroethane	ND		5.0
Carbon tetrachloride	ND		5.0
Bromodichloromethane	ND		5.0
1,2-Dichloropropane	ND		5.0
trans-1,3-dichloropropene	ND		5.0
Trichloroethene	ND		5.0
Dibromochloromethane	ND		5.0
1,1,2-Trichloroethane	ND		5.0
Benzene	ND		5.0
cis-1,3-dichloropropene	ND		5.0
2-Chloroethylvinyl ether	ND		10
Bromoform	ND		5.0
Tetrachloroethene	ND		5.0
1,1,2,2-Tetrachloroethane	ND		5.0
Toluene	ND		5.0
Chlorobenzene	ND		5.0
Ethylbenzene	ND		5.0
Acetone	ND		10
Carbon disulfide	ND		5.0
2-Butanone	ND		10
Vinyl acetate	ND		10
4-Methyl-2-pentanone	ND		10

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

B = ALSO PRESENT IN BLANK

N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE

A = PHENOMENON OF METHODOLOGY WITH ACID PRESERVATION

NA = NOT APPLICABLE

TEST CODE : WPURG 1

JOB NUMBER : 9500.340/9500.353

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NM-9000 RFI SITE 3 - NFAFB AFRES
 TEST NAME : PURGEABLES UNITS : UG/L
 SAMPLE ID LAB : METHOD BLANK (02/20) MATRIX: WATER
 DATE EXTRACTED: NA
 DATE ANALYZED : 02/20/95
 INJECTION VOLUME: NA
 DILUTION FACTOR : 1.0

SAMPLE VOLUME: 5 mL
 FINAL VOLUME : NA

PARAMETER	RESULTS	Q	QNT. LIMIT
2-Hexanone	ND		10
Styrene	ND		5.0
Total xylenes	ND		5.0

 QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE
 A = PHENOMENON OF METHODOLOGY WITH ACID PRESERVATION
 NA = NOT APPLICABLE

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF WATER ANALYSIS FOR TENTATIVELY IDENTIFIED
VOLATILE ORGANIC COMPOUNDS BY GC/MS

(all results in ug/L)

CLIENT : NM-9000 RFI SITE 3 - NFAPB AFRES
TEST NAME : PURGEABLES UNITS : UG/L
SAMPLE ID LAB : METHOD BLANK (02/20) MATRIX: WATER
DATE EXTRACTED: NA
DATE ANALYZED : 02/20/95
SAMPLE VOLUME: 5 mL INJECTION VOLUME: NA
FINAL VOLUME : NA DILUTION FACTOR : 1.0

Compound

None Detected

Total Hydrocarbons Present as m/z 57 - 3

** Values are approximate retention times, in minutes.

TEST CODE : SPURG 1

JOB NUMBER : 9500.353

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NM-9000 RFI SITE 3 - NFAFB AFRES

TEST NAME : PURGEABLES

UNITS : UG/KG

SAMPLE ID LAB : METHOD BLANK (02/21)

MATRIX : SOLID

DATE EXTRACTED: NA

DATE ANALYZED : 02/21/95

SAMPLE VOLUME: 5 mL

INJECTION VOLUME: NA

FINAL VOLUME : NA

DILUTION FACTOR : 1.0

PARAMETER	RESULTS	Q	QNT. LIMIT
Chloromethane	ND		10
Bromomethane	ND		10
Vinyl chloride	ND		10
Chloroethane	ND		10
Methylene chloride	ND		5.0
1,1-Dichloroethene	ND		5.0
1,1-Dichloroethane	ND		5.0
cis-1,2-Dichloroethene	ND		5.0
trans-1,2-Dichloroethene	ND		5.0
Chloroform	ND		5.0
1,2-Dichloroethane	ND		5.0
1,1,1-Trichloroethane	ND		5.0
Carbon tetrachloride	ND		5.0
Bromodichloromethane	ND		5.0
1,2-Dichloropropane	ND		5.0
trans-1,3-dichloropropene	ND		5.0
Trichloroethene	ND		5.0
Dibromochloromethane	ND		5.0
1,1,2-Trichloroethane	ND		5.0
Benzene	ND		5.0
cis-1,3-dichloropropene	ND		5.0
2-Chloroethylvinyl ether	ND		10
Bromoform	ND		5.0
Tetrachloroethene	ND		5.0
1,1,2,2-Tetrachloroethane	ND		5.0
Toluene	ND		5.0
Chlorobenzene	ND		5.0
Ethylbenzene	ND		5.0
Acetone	8.3	J	10
Carbon disulfide	ND		5.0

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

B = ALSO PRESENT IN BLANK

X = EXCEEDS CALIBRATION LIMIT

NA = NOT APPLICABLE

N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE

A = PHENOMENON OF METHODOLOGY WITH ACID PRESERVATION

TEST CODE : SPURG 1

JOB NUMBER : 9500.353

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NM-9000 RFI SITE 3 - NFAFB AFRES

TEST NAME : PURGEABLES

UNITS : UG/KG

SAMPLE ID LAB : METHOD BLANK (02/21)

MATRIX : SOLID

DATE EXTRACTED: NA

DATE ANALYZED : 02/21/95

SAMPLE VOLUME: 5 mL

INJECTION VOLUME: NA

FINAL VOLUME : NA

DILUTION FACTOR : 1.0

PARAMETER	RESULTS	Q	QNT. LIMIT
-----	-----	-	-----
2-Butanone	ND		10
Vinyl acetate	ND		10
2-Hexanone	ND		10
Styrene	ND		5.0
Total xylenes	ND		5.0
4-Methyl-2-pentanone	ND		10

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

B = ALSO PRESENT IN BLANK

X = EXCEEDS CALIBRATION LIMIT

NA = NOT APPLICABLE

N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE

A = PHENOMENON OF METHODOLOGY WITH ACID PRESERVATION

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF WATER ANALYSIS FOR TENTATIVELY IDENTIFIED
VOLATILE ORGANIC COMPOUNDS BY GC/MS

(all results in ug/Kg)

CLIENT : NM-9000 RFI SITE 3 - NFAFB AFRES
TEST NAME : PURGEABLES UNITS : UG/KG
SAMPLE ID LAB : METHOD BLANK (02/21) MATRIX: SOLID
DATE EXTRACTED: NA
DATE ANALYZED : 02/21/95
SAMPLE VOLUME: 5 g INJECTION VOLUME: NA
FINAL VOLUME : NA DILUTION FACTOR : 1.0

Compound

None Detected

Total Hydrocarbons Present as m/z 57 - 3

** Values are approximate retention times, in minutes.

TEST CODE :WBNBNA1

JOB NUMBER :9500.340/9500.353

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NM-9000 RFI SITE 3 - NFAFB AFRES

TEST NAME : BASE NEUTRAL

UNITS : UG/L

SAMPLE ID LAB : METHOD BLANK (595/596)

MATRIX: WATER

DATE EXTRACTED: 02/20/95

DATE ANALYZED : 02/24/95

SAMPLE VOLUME: 1000 mL

INJECTION VOLUME: 2 uL

FINAL VOLUME : 1.0 mL

DILUTION FACTOR : 1.0

PARAMETER	RESULTS	Q	QNT. LIMIT
bis(2-chloroethyl)ether	ND		10
1,3-Dichlorobenzene	ND		10
1,4-Dichlorobenzene	ND		10
1,2-Dichlorobenzene	ND		10
bis(2-Chloroisopropyl)ether	ND		10
N-nitrosodipropylamine	ND		10
Hexachloroethane	ND		10
Nitrobenzene	ND		10
Isophorone	ND		10
bis(2-Chloroethoxy)methane	ND		10
1,2,4-Trichlorobenzene	ND		10
Naphthalene	ND		10
Hexachlorobutadiene	ND		10
Hexachlorocyclopentadiene	ND		10
2-Chloronaphthalene	ND		10
Dimethyl phthalate	ND		10
Acenaphthylene	ND		10
Fluorene	ND		10
Acenaphthene	ND		10
2,4-Dinitrotoluene	ND		10
2,6-Dinitrotoluene	ND		10
Diethyl phthalate	ND		10
4-Chlorophenyl phenyl ether	ND		10
N-nitrosodiphenylamine	ND		10
4-Bromophenyl phenyl ether	ND		10
Hexachlorobenzene	ND		10
Phenanthrene	ND		10
Anthracene	ND		10
Di-n-butyl phthalate	ND		10
Fluoranthene	ND		10
Benzidine	ND		50
Pyrene	ND		10

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

B = ALSO PRESENT IN BLANK

N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE

A = PHENOMENON OF METHODOLOGY WITH ACID PRESERVATION

TEST CODE :WBNBNA1

JOB NUMBER :9500.340/9500.353

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NM-9000 RFI SITE 3 - NFAFB AFRES

TEST NAME : BASE NEUTRAL

UNITS : UG/L

SAMPLE ID LAB : METHOD BLANK (595/596)

MATRIX: WATER

DATE EXTRACTED: 02/20/95

DATE ANALYZED : 02/24/95

SAMPLE VOLUME: 1000 mL

INJECTION VOLUME: 2 uL

FINAL VOLUME : 1.0 mL

DILUTION FACTOR : 1.0

PARAMETER	RESULTS	Q	QNT. LIMIT
Butylbenzylphthalate	ND		10
3,3'-Dichlorobenzidine	ND		20
Benzo(a)anthracene	ND		10
bis(2-Ethylhexyl)phthalate	ND		10
Chrysene	ND		10
Di-n-octyl phthalate	ND		10
Benzo(b)fluoranthene	ND		10
Benzo(k)fluoranthene	ND		10
Benzo(a)pyrene	ND		10
Indeno(1,2,3-cd)pyrene	ND		10
Dibenz(a,h)anthracene	ND		10
Benzo(ghi)perylene	ND		10
Benzy alcohol	ND		10
4-Chloroaniline	ND		10
2-Methylnaphthalene	ND		10
2-Nitroaniline	ND		50
3-Nitroaniline	ND		50
Dibenzofuran	ND		10
4-Nitroaniline	ND		50

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

B = ALSO PRESENT IN BLANK

N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE

A = PHENOMENON OF METHODOLOGY WITH ACID PRESERVATION

TEST CODE :WAPBNA1

JOB NUMBER :9500.340/9500.353

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NM-9000 RFI SITE 3 - NFAFB AFRES

TEST NAME : ACID PHENOL

UNITS : UG/L

SAMPLE ID LAB : METHOD BLANK (595/596)

MATRIX: WATER

DATE EXTRACTED: 02/20/95

DATE ANALYZED : 02/24/95

SAMPLE VOLUME: 1000 mL

INJECTION VOLUME: 2 uL

FINAL VOLUME : 10 mL

DILUTION FACTOR : 1.0

PARAMETER	RESULTS	Q	QNT. LIMIT
Phenol	ND		10
2-Chlorophenol	ND		10
2-Nitrophenol	ND		10
2,4-Dimethylphenol	ND		10
2,4-Dichlorophenol	ND		10
4-Chloro-3-methylphenol	ND		10
2,4,6-Trichlorophenol	ND		10
2,4-Dinitrophenol	ND		50
4-Nitrophenol	ND		50
4,6-Dinitro-2-methylphenol	ND		50
Pentachlorophenol	ND		50
2-Methylphenol	ND		10
4-Methylphenol	ND		10
Benzoic acid	ND		50
2,4,5-Trichlorophenol	ND		50

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

B = ALSO PRESENT IN BLANK

N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE

A = PHENOMENON OF METHODOLOGY WITH ACID PRESERVATION

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF WATER ANALYSIS FOR TENTATIVELY IDENTIFIED
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS

(all results in ug/L)

SAMPLE VOLUME: 1000 mL
FINAL VOLUME (BN): 1.0 mL
FINAL VOLUME (AP): 10 mL

DATE EXTRACTED: 02/20/95
DATE ANALYZED : 02/24/95
INJECTION VOLUME: 2 uL
DILUTION FACTOR: 1.0

9500.340/9500.353

E & E Lab. No. 95-	Method Blank (595/596)
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Analysis Date	02/24/95
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Compound	Sample Identity
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Aldol Condensation Product (4.50)**	27.0
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Total Hydrocarbons Present as m/z 57 - 5

** Value is approximate retention time, in minutes.

(BN) = BASE NEUTRAL

(AP) = ACID PHENOL

TEST CODE :SBNBNA1

JOB NUMBER :9500.340/9500.353

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NM-9000 RFI SITE 3 - NFAFB AFRES

TEST NAME : BASE NEUTRAL

UNITS : UG/KG

SAMPLE ID LAB : METHOD BLANK (600)

MATRIX : SOLID

DATE EXTRACTED: 02/20/95

DATE ANALYZED : 03/01/95

SAMPLE VOLUME: 30.0 g

INJECTION VOLUME: 2 uL

FINAL VOLUME : 0.5 mL

DILUTION FACTOR : 1.0

PARAMETER	RESULTS	Q	QNT. LIMIT
-----	-----	-	-----
bis(2-chloroethyl)ether	ND		330
1,3-Dichlorobenzene	ND		330
1,4-Dichlorobenzene	ND		330
1,2-Dichlorobenzene	ND		330
bis(2-Chloroisopropyl)ether	ND		330
N-nitrosodipropylamine	ND		330
Hexachloroethane	ND		330
Nitrobenzene	ND		330
Isophorone	ND		330
bis(2-Chloroethoxy)methane	ND		330
1,2,4-Trichlorobenzene	ND		330
Naphthalene	ND		330
Hexachlorobutadiene	ND		330
Hexachlorocyclopentadiene	ND		330
2-Chloronaphthalene	ND		330
Dimethyl phthalate	ND		330
Acenaphthylene	ND		330
Fluorene	ND		330
Acenaphthene	ND		330
2,4-Dinitrotoluene	ND		330
2,6-Dinitrotoluene	ND		330
Diethyl phthalate	ND		330
4-Chlorophenyl phenyl ether	ND		330
N-nitrosodiphenylamine	ND		330
4-Bromophenyl phenyl ether	ND		330
Hexachlorobenzene	ND		330
Phenanthrene	ND		330
Anthracene	ND		330
Di-n-butyl phthalate	ND		330

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

B = ALSO PRESENT IN BLANK

X = EXCEEDS CALIBRATION LIMIT

N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE

A = PHENOMENON OF METHODOLOGY WITH ACID PRESERVATION

TEST CODE :SBNBNA1

JOB NUMBER :9500.340/9500.353

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NM-9000 RFI SITE 3 - NFAFB AFRES

TEST NAME : BASE NEUTRAL

SAMPLE ID LAB : METHOD BLANK (600)

UNITS : UG/KG

MATRIX : SOLID

DATE EXTRACTED: 02/20/95

DATE ANALYZED : 03/01/95

SAMPLE VOLUME: 30.0 g

FINAL VOLUME : 0.5 mL

INJECTION VOLUME: 2 uL

DILUTION FACTOR : 1.0

PARAMETER	RESULTS	Q	QNT. LIMIT
Fluoranthene	ND		330
Benzidine	ND		1600
Pyrene	ND		330
Butylbenzylphthalate	ND		330
3,3'-Dichlorobenzidine	ND		660
Benzo(a)anthracene	ND		360
bis(2-Ethylhexyl)phthalate	35	J	330
Chrysene	ND		330
Di-n-octyl phthalate	ND		330
Benzo(b)fluoranthene	ND		330
Benzo(k)fluoranthene	ND		330
Benzo(a)pyrene	ND		330
Indeno(1,2,3-cd)pyrene	ND		330
Dibenz(a,h)anthracene	ND		330
Benzo(ghi)perylene	ND		330
Benzyl alcohol	ND		330
4-Chloroaniline	ND		330
2-Methylnaphthalene	ND		330
2-Nitroaniline	ND		1600
3-Nitroaniline	ND		1600
Dibenzofuran	ND		330
4-Nitroaniline	ND		1600

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

B = ALSO PRESENT IN BLANK

X = EXCEEDS CALIBRATION LIMIT

N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE

A = PHENOMENON OF METHODOLOGY WITH ACID PRESERVATION

TEST CODE :SAPBNA1

JOB NUMBER :9500.340/9500.353
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NM-9000 RFI SITE 3 - NFAFB AFRES
TEST NAME : ACID PHENOL
SAMPLE ID LAB : METHOD BLANK (600)

UNITS : UG/KG
MATRIX : SOLID
DATE EXTRACTED: 02/20/95
DATE ANALYZED : 03/01/95

SAMPLE VOLUME: 30.0 g
FINAL VOLUME : 0.5 mL

INJECTION VOLUME: 2 uL
DILUTION FACTOR : 1.0

PARAMETER	RESULTS	Q	QNT. LIMIT
Phenol	ND	-	330
2-Chlorophenol	ND		330
2-Nitrophenol	ND		330
2,4-Dimethylphenol	ND		330
2,4-Dichlorophenol	ND		330
4-Chloro-3-methylphenol	ND		330
2,4,6-Trichlorophenol	ND		330
2,4-Dinitrophenol	ND		1600
4-Nitrophenol	ND		1600
4,6-Dinitro-2-methylphenol	ND		1600
Pentachlorophenol	ND		1600
2-Methylphenol	ND		330
4-Methylphenol	ND		330
Benzoic acid	ND		1600
2,4,5-Trichlorophenol	ND		1600

QUALIFIERS: C = COMMENT
J = ESTIMATED VALUE
X = EXCEEDS CALIBRATION LIMIT
N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE
A = PHENOMENON OF METHODOLOGY WITH ACID PRESERVATION
ND = NOT DETECTED
B = ALSO PRESENT IN BLANK

RESULTS OF SOIL ANALYSIS FOR TENTATIVELY IDENTIFIED
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS

(all results in ug/kg)

SAMPLE VOLUME: 30.0 g
FINAL VOLUME : 0.5 mL

DATE EXTRACTED: 02/20/95
DATE ANALYZED : 03/01/95
INJECTION VOLUME: 2 uL
DILUTION FACTOR: 1.0

9500.340/9500.353

E & E Lab. No. 95-	Method Blank (600)
Analysis Date	03/01/95
Compound	Sample Identity
Aldol condensation product (5.09)**	35000
Unknown (6.53)	1000
Unknown (7.40)	150

Total Hydrocarbons Present as m/z 57 - 630

** Values are approximate retention times, in minutes.

METALS SECTION

JOB NUMBER : 9500.340/9500.353

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NM-9000 RFI SITE 3 - NFAFB AFRES

SAMPLE ID LAB : METHOD BLANK (586)

MATRIX: SOLID

DATE EXTRACTED: 02/21/95

DATE ANALYZED : 02/24/95

SAMPLE VOLUME: 100 mL

INJECTION VOLUME: NA

FINAL VOLUME : 100 mL

DILUTION FACTOR : 1.0

PARAMETER	RESULTS	Q	QNT.	LIMIT	UNITS
-----	-----	-----	-----	-----	-----
Arsenic	ND			0.50	MG/KG
Selenium	ND			0.50	MG/KG
Thallium	ND			0.50	MG/KG

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

NA = NOT APPLICABLE

JOB NUMBER : 9500.340/9500.353
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NM-9000 RFI SITE 3 - NFAFB AFRES
SAMPLE ID LAB : METHOD BLANK (592) MATRIX: WATER
DATE EXTRACTED: 02/27/95
DATE ANALYZED : 02/28/95

SAMPLE VOLUME: 100 mL
FINAL VOLUME : 100 mL

INJECTION VOLUME: NA
DILUTION FACTOR : 1.0

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Antimony	ND		60	UG/L
Beryllium	ND		5.0	UG/L
Cadmium	ND		5.0	UG/L
Chromium Total	ND		10	UG/L
Copper	ND		20	UG/L
Nickel	ND		20	UG/L
Silver	ND		10	UG/L
Zinc	ND		10	UG/L

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE NA = NOT APPLICABLE

JOB NUMBER : 9500.340/9500.353

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NM-9000 RFI SITE 3 - NFAFB AFRES

SAMPLE ID LAB : METHOD BLANK (593)

MATRIX: WATER

DATE EXTRACTED: 02/27/95

DATE ANALYZED : 02/28/95

SAMPLE VOLUME: 100 mL

INJECTION VOLUME: NA

FINAL VOLUME : 100 mL

DILUTION FACTOR : 1.0

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
-----	-----	-	-----	-----
Arsenic	ND		5.0	UG/L
Lead	ND		5.0	UG/L
Selenium	ND		5.0	UG/L
Thallium	ND		5.0	UG/L

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

NA = NOT APPLICABLE

JOB NUMBER : 9500.340

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NM-9000 RFI SITE 3 - NFAFB AFRES
SAMPLE ID LAB : METHOD BLANK (02/16) MATRIX: WATER
DATE ANALYZED : 02/16/95

SAMPLE VOLUME: 100 mL INJECTION VOLUME: NA
FINAL VOLUME : NA DILUTION FACTOR : 1.0

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Mercury	ND		0.20	UG/L

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE NA = NOT APPLICABLE

JOB NUMBER : 9500.353

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NM-9000 RFI SITE 3 - NFAFB AFRES

SAMPLE ID LAB : METHOD BLANK (02/17)

MATRIX: WATER

DATE ANALYZED : 02/17/95

SAMPLE VOLUME: 100 mL

INJECTION VOLUME: NA

FINAL VOLUME : NA

DILUTION FACTOR : 1.0

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
-----	-----	-	-----	-----
Mercury	ND		0.20	UG/L

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

NA = NOT APPLICABLE

METALS SECTION

JOB NUMBER : 9500.340/9500.353

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NM-9000 RFI SITE 3 - NFAFB APRES
SAMPLE ID LAB : METHOD BLANK (02/22) MATRIX: SOLID
DATE ANALYZED : 02/22/95

SAMPLE VOLUME: 100 mL
FINAL VOLUME : NA

INJECTION VOLUME: NA
DILUTION FACTOR : 1.0

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Mercury	ND		0.10	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE NA = NOT APPLICABLE

TEST CODE : SPETHY1

JOB NUMBER : 9500.340/9500.353

ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NM-9000 RFI SITE 3 - NFAFB AFRES

UNITS : MG/KG

TEST NAME : TRPH

PARAMETER : Petroleum Hydrocarbons

DATE EXTRACTED: NA

DATE ANALYZED : 03/03/95

SAMPLE VOLUME : 10 g

DILUTION FACTOR: 1.0

SAMPLE ID	RESULTS	Q	QNT. LIMIT
METHOD BLANK (03/03)	ND		20

QUALIFIERS: C = COMMENT

J = ESTIMATED VALUE

NA = NOT APPLICABLE

ND = NOT DETECTED

NA = NOT APPLICABLE

TEST CODE : WPETHY1

JOB NUMBER : 9500.340/9500.353
ELAP ID : 10486

Ecology and Environment, Inc.

CLIENT : NM-9000 RFI SITE 3 - NFAFB AFRES
TEST NAME : TRPH UNITS: MG/L
PARAMETER : Petroleum Hydrocarbons SAMPLE VOLUME: 1000 ML

SAMPLE ID	RESULTS	Q	QNT. LIMIT	DILUTION FACTOR	DATE ANALYZED
METHOD BLANK (03/07)	ND		1.0	1.00	03/07/95

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE
NA = NOT APPLICABLE

Overview

The sample was extracted and analyzed according to the procedures described in EPA Method 8280. Any particular difficulties encountered during the sample handling by Triangle Labs will be discussed in the QC Remarks section below. The results reported relate only to the items tested.

Sample Extraction

The water sample has been separatory funnel extracted with methylene chloride to produce a final extract. Eighty percent of the extract was archived while 20% was processed through the cleanup procedures.

The cleanup of extracts may include the use of bulk acid/base washes, and acid silica, basic silica, activated alumina, and carbon column liquid chromatography.

Sample Analysis

A five point initial calibration curve was analyzed in triplicate on each instrument used for sample analysis. Calibration ranges are listed below and are based on sample size. A continuing calibration check and a column performance evaluation are analyzed at the beginning of each twelve hour period of sample analysis. The daily calibration solution, which is used to evaluate both the GC resolution and the calibration range, is also performed at the end of each twelve hour analytical sequence.

COMPOUNDS	SOLID	WATER	
	10 gram sample	1 liter sample	
	ppb (ug/kg)	ppt (ng/L)	ppb(ug/L)
TCDD/TCDF PeCDD/PeCDF	1-20	10-200	.01-.2
HxCDD/HxCDF HpCDD/HpCDF	2.5-50	25-500	.025-.5
OCDD/OCDF	5-100	50-1000	.05-1.0

Some of the labeled standards used in the analysis have ion fragments with the same mass as the quantitation mass of some of the analytes. These lower mass fragments appear as peaks or "breakthrough" in the analyte channels. This can often be witnessed in the cases of ¹³C₁₂-TCDF internal standard appearing in the TCDD analyte channels, ¹³C₁₂-HxCDD internal and recovery standards appearing in the HpCDF analyte channels, and ¹³C₁₂-HpCDF internal standard appearing in the HpCDD analyte channels. For most of the above situations, the interfering peaks due to the labeled standards lie outside the retention time window of the analyte. In the case of TCDD/TCDF, the interferences usually lie within the retention time window. Whenever breakthrough peaks occur from the labeled standards, these peaks are reported as EMPCs, and may be considered arti-

facts from the labeled standards. This is a limitation caused by the use of low-resolution mass spectrometry (LRMS), recommended in the method.

Quality Control Samples

A laboratory method blank -- identified as the TLI Water Blank -- was prepared along with the sample. One such sample per 20 field samples (or less) of a given matrix is prepared.

The advisory quality control range for internal and surrogate standard percent recoveries is 40-120 percent recovery (25-120 for the OCDD internal standard). If recoveries are below the advisory range, analyte results are judged to be valid as long as the ratio of signal to noise in the standard channel is greater than 10:1 and greater than 10% recovery.

QC Remarks

The release of this particular set of Ecology and Environment, Inc. analytical data by Triangle Labs was authorized by the Quality Control Chemist who has reviewed each sample data package individually following a series of inspections/reviews. When applicable, general deviations from acceptable QC requirements are identified below and comments are made on the effect of these deviations upon the validity and reliability of the results. Specific QC issues associated with this particular project are:

Sample Receipt:

One water and three soil samples were received from Ecology and Environment, Inc. in good condition on February 23, 1995 at 10°C and were stored in a refrigerator at 4°C until the time of extraction. Only the water sample is included in this data package.

Sample Preparation Laboratory: This project shares a method blank with TLI project # 31687.

Mass Spectrometry:

Data Review:

The internal and clean-up standards for these samples are within the QC advisory limits of 40-120% or meet 10:1 signal to noise criteria in all cases.

Other Comments:

No 2,3,7,8-substituted target analytes were detected in the TLI Blank above the method detection limit (MDL).

Sample Calculations:

Method 8280 does not specify which of the two monitored masses to use for quantitation. We have selected which mass to use for each analyte and standard based on the theoretical ratio. For groups with theoretical ratios that are greater than one (the pentas, hexas, and heptas), the first monitored mass should be larger and is therefore used for quantitation. For channels with theoretical ratios of less than one (the tetras and octas), the second monitored mass should generally be larger and is used for quantitation.

Analyte Concentration

The concentration or amount of any analyte is calculated using the following expression.

$$C(\text{o}) = \frac{A_{\text{o}} * Q_{\text{B}}}{A_{\text{B}} * \text{RRF}(\text{o}) * W}$$

where:

$C(\text{o})$ is the concentration or amount of a given analyte

A_{o} is the integrated ion current of the quantitation ion of the analyte

A_{B} is the integrated current of the quantitation ion of the internal standard

Q_{B} is the amount of internal standard added to the sample before extraction

$\text{RRF}(\text{o})$ is the analyte relative response factor from the continuing calibration

W is the sample weight or volume

Detection Limits

The detection limit reported for a target analyte was derived from a method validation study performed by Triangle Laboratories of RTP, Inc. The reported detection limit has been adjusted for each sample using the actual sample size extracted and any dilution factors associated with that sample analysis.

The value reported for "EMPCs" represents the estimated maximum possible concentration reported for GC/MS peaks eluting within the retention time windows established by the daily GC performance analysis, and which are characterized by a signal-to-noise ratio in excess of 2.5:1, but which do not meet the ion abundance ratio criteria. The "EMPC" is calculated by using the same expression used for reporting the identified analyte concentrations. An EMPC can be reported for a non-detected specific isomer (e.g. 2,3,7,8-TCDD) but can also be reported for "totals" (e.g. Total TCDD) in which case the "total" EMPC represents the sum of all the positively identified PCDD/PCDF peaks and of the peaks that do not meet all the identification criteria.

By our interpretation, the analytical data in this project are valid based on the guidelines of EPA Method 8280. Any specific QC concerns or problems have been discussed in the

QC Remarks section with emphasis on their affect on the data. Should Ecology and Environment, Inc. have any questions or comments regarding this data package, please feel free to contact Rose West, Project Manager, at (919) 544-8729.

For Triangle Laboratories of RTP, Inc.,

Report Preparation

Quality Control

Kenneth Varley
Kenneth Varley

Report Preparation Chemist

B Chilton
Vijay Singh Chhabra
Report Preparation Chemist 3/08/95

TL-RTP Project: **31706A**
 Client Sample: **NM9-SB03-01-WR-022195**
 Client Project: **JOB# 9500-385**

Method 8280 PCDD/PCDF Analysis (b)
 Analysis File: **B950436**
 Matrix: **WATER**

PCDD/PCDF SUMMARY REPORT

Specific Analytes	Conc. (ppt)	DL (ppt)	Blank (ppt)	Definitions:
2,3,7,8-TCDD	ND	0.95	ND	Conc. - The concentration of the specific analyte in the units shown.
1,2,3,7,8-PeCDD	ND	6.6	ND	
1,2,3,4,7,8-HxCDD	ND	5.8	ND	DL - The detection limit of the specific analyte in the units shown.
1,2,3,6,7,8-HxCDD	ND	10.2	ND	
1,2,3,7,8,9-HxCDD	ND	6.2	ND	Blank - The concentration of the method blank.
1,2,3,4,6,7,8-HpCDD	ND	5.7	ND	
1,2,3,4,6,7,8,9-OCDD	ND	6.8	ND	ND - (Non-Detect) The concentration of the analyte is less than the detection limit.
2,3,7,8-TCDF	ND	2.2	ND	
1,2,3,7,8-PeCDF	ND	7.9	ND	
2,3,4,7,8-PeCDF	ND	9	ND	
1,2,3,4,7,8-HxCDF	ND	5.8	ND	
1,2,3,6,7,8-HxCDF	ND	3.9	ND	
2,3,4,6,7,8-HxCDF	ND	5.6	ND	
1,2,3,7,8,9-HxCDF	ND	4.5	ND	
1,2,3,4,6,7,8-HpCDF	ND	4.6	ND	
1,2,3,4,7,8,9-HpCDF	ND	5.4	ND	
1,2,3,4,6,7,8,9-OCDF	ND	5.3	ND	

Total Analytes	Conc. (ppt)	DL (ppt)
Total TCDD	ND	0.95
Total PeCDD	ND	6.6
Total HxCDD	ND	7.4
Total HpCDD	ND	5.7
Total TCDF	ND	2.2
Total PeCDF	ND	8.45
Total HxCDF	ND	4.95
Total HpCDF	ND	5

Overview

The samples were extracted and analyzed according to the procedures described in EPA Method 8280. Any particular difficulties encountered during the sample handling by Triangle Labs will be discussed in the QC Remarks section below. The results reported relate only to the items tested.

Sample Extraction

The solid samples have been jar extracted with a series of solvents (hexane, methanol or and/or toluene) to produce a final extract. Eighty percent of the extract was archived while 20% was processed through the cleanup procedures.

The cleanup of extracts may include the use of bulk acid/base washes, and acid silica, basic silica, activated alumina, and carbon column liquid chromatography.

Sample Analysis

A five point initial calibration curve was analyzed in triplicate on each instrument used for sample analysis. Calibration ranges are listed below and are based on sample size. A continuing calibration check and a column performance evaluation are analyzed at the beginning of each twelve hour period of sample analysis. The daily calibration solution, which is used to evaluate both the GC resolution and the calibration range, is also performed at the end of each twelve hour analytical sequence.

COMPOUNDS	SOLID	WATER	
	10 gram sample	1 liter sample	
	ppb (ug/kg)	ppt (ng/L)	ppb(ug/L)
TCDD/TCDF PeCDD/PeCDF	1-20	10-200	.01-.2
HxCDD/HxCDF HpCDD/HpCDF	2.5-50	25-500	.025-.5
OCDD/OCDF	5-100	50-1000	.05-1.0

Some of the labeled standards used in the analysis have ion fragments with the same mass as the quantitation mass of some of the analytes. These lower mass fragments appear as peaks or "breakthrough" in the analyte channels. This can often be witnessed in the cases of ¹³C₁₂-TCDF internal standard appearing in the TCDD analyte channels, ¹³C₁₂-HxCDD internal and recovery standards appearing in the HpCDF analyte channels, and ¹⁴C₁₂-HpCDF internal standard appearing in the HpCDD analyte channels. For most of the above situations, the interfering peaks due to the labeled standards lie outside the retention time window of the analyte. In the case of TCDD/TCDF, the interferences usually lie within the retention time window. Whenever breakthrough peaks occur from the labeled standards, these peaks are reported as EMPCs, and may be considered arti-

facts from the labeled standards. This is a limitation caused by the use of low-resolution mass spectrometry (LRMS), recommended in the method.

Quality Control Samples

A laboratory method blank -- identified as the TLI Soil Blank -- was prepared along with the samples. One such sample per 20 field samples (or less) of a given matrix is prepared.

The advisory quality control range for internal and surrogate standard percent recoveries is 40-120 percent recovery (25-120 for the OCDD internal standard). If recoveries are below the advisory range, analyte results are judged to be valid as long as the ratio of signal to noise in the standard channel is greater than 10:1 and greater than 10% recovery.

QC Remarks

The release of this particular set of Ecology and Environment, Inc. analytical data by Triangle Labs was authorized by the Quality Control Chemist who has reviewed each sample data package individually following a series of inspections/reviews. When applicable, general deviations from acceptable QC requirements are identified below and comments are made on the effect of these deviations upon the validity and reliability of the results. Specific QC issues associated with this particular project are:

Sample Receipt:

Three soil samples were received from Ecology and Environment, Inc. in good condition on February 23, 1995 in good condition at 10°C and were stored in a refrigerator at 4°C until the time of extraction.

Sample Preparation Laboratory:

Mass Spectrometry:

Data Review:

The internal and clean-up standards for these samples are within the QC advisory limits of 40-120% or meet 10:1 signal to noise criteria in all cases.

Other Comments:

No 2,3,7,8-substituted target analytes were detected in the TLI Blank above the method detection limit (MDL).

Sample Calculations:

Method 8280 does not specify which of the two monitored masses to use for quantitation.

We have selected which mass to use for each analyte and standard based on the theoretical ratio. For groups with theoretical ratios that are greater than one (the pentas, hexas, and heptas), the first monitored mass should be larger and is therefore used for quantitation. For channels with theoretical ratios of less than one (the tetras and octas), the second monitored mass should generally be larger and is used for quantitation.

Analyte Concentration

The concentration or amount of any analyte is calculated using the following expression.

$$C(\text{a}) = \frac{A_{\text{a}} * Q_{\text{b}}}{A_{\text{b}} * \text{RRF}(\text{a}) * W}$$

where:

$C(\text{a})$ is the concentration or amount of a given analyte

A_{a} is the integrated ion current of the quantitation ion of the analyte

A_{b} is the integrated current of the quantitation ion of the internal standard

Q_{b} is the amount of internal standard added to the sample before extraction

$\text{RRF}(\text{a})$ is the analyte relative response factor from the continuing calibration

W is the sample weight or volume

Detection Limits

The detection limit reported for a target analyte was derived from a method validation study performed by Triangle Laboratories of RTP, Inc. The reported detection limit has been adjusted for each sample using the actual sample size extracted and any dilution factors associated with that sample analysis.

Data Flags

An "RO" flag is used to indicate that a labeled standard has an ion-abundance ratio that is outside of the acceptable QC limits, most likely due to a coeluting interference. This may have caused the percent recovery of the standard to be overestimated. All quantitations versus this standard, therefore, may be underestimated.

A "V" flag is used to indicate that, although the percent recovery of a labeled standard may be below a specific QC limit, the signal-to-noise ratio of the peak is greater than 10:1. The standard is considered reliably quantifiable. All quantitations derived from the

standard are considered valid as well.

The value reported for "EMPCs" represents the estimated maximum possible concentration reported for GC/MS peaks eluting within the retention time windows established by the daily GC performance analysis, and which are characterized by a signal-to-noise ratio in excess of 2.5:1, but which do not meet the ion abundance ratio criteria. The "EMPC" is calculated by using the same expression used for reporting the identified analyte concentrations. An EMPC can be reported for a non-detected specific isomer (e.g. 2,3,7,8-TCDD) but can also be reported for "totals" (e.g. Total TCDD) in which case the "total" EMPC represents the sum of all the positively identified PCDD/PCDF peaks and of the peaks that do not meet all the identification criteria.

By our interpretation, the analytical data in this project are valid based on the guidelines of EPA Method 8280. Any specific QC concerns or problems have been discussed in the QC Remarks section with emphasis on their affect on the data. Should Ecology and Environment, Inc. have any questions or comments regarding this data package, please feel free to contact Rose West, Project Manager, at (919) 544-5729.

For Triangle Laboratories of RTP, Inc.,

Report Preparation

Bracha Rosenberg 3-10-95
Bracha Rosenberg

Report Preparation Chemist

Quality Control

Selena Armistead 3/10/95
Selena Armistead
Report Preparation Chemist

Total pages in report: 516

ECOLOGY AND ENVIRONMENT ENVIRONMENT

TL-RTP Project: 31706B
 Client Sample: NM9-SB03-01-SO-022195
 Client Project: JOB# 9500-385

Method 8280 PCDD/PCDF Analysis (b)
 Analysis File: E950721
 Matrix: SOIL

PCDD/PCDF SUMMARY REPORT

Specific Analytes	Conc. (ppb)	DL (ppb)	Blank (ppb)	Definitions:
2,3,7,8-TCDD	ND	0.0252	ND	Conc. - The concentration of the specific analyte in the units shown. DL - The detection limit of the specific analyte in the units shown. Blank - The concentration of the method blank. ND - (Non-Detect) The concentration of the analyte is less than the detection limit.
1,2,3,7,8-PeCDD	ND	0.284	ND	
1,2,3,4,7,8-HxCDD	ND	0.117	ND	
1,2,3,6,7,8-HxCDD	ND	0.086	ND	
1,2,3,7,8,9-HxCDD	ND	0.163	ND	
1,2,3,4,6,7,8-HpCDD	ND	0.223	ND	
1,2,3,4,6,7,8,9-OCDD	ND	0.0688	ND	
2,3,7,8-TCDF	ND	0.0297	ND	
1,2,3,7,8-PeCDF	ND	0.106	ND	
2,3,4,7,8-PeCDF	ND	0.202	ND	
1,2,3,4,7,8-HxCDF	ND	0.245	ND	
1,2,3,6,7,8-HxCDF	ND	0.322	ND	
2,3,4,6,7,8-HxCDF	ND	0.281	ND	
1,2,3,7,8,9-HxCDF	ND	0.202	ND	
1,2,3,4,6,7,8-HpCDF	ND	0.175	ND	
1,2,3,4,7,8,9-HpCDF	ND	0.218	ND	
1,2,3,4,6,7,8,9-OCDF	ND	0.203	ND	

Total Analytes	Conc. (ppb)	DL (ppb)	Blank (ppb)
Total TCDD	ND	0.252	ND
Total PeCDD	ND	0.284	ND
Total HxCDD	ND	0.122	ND
Total HpCDD	ND	0.223	ND
Total TCDF	ND	0.0297	ND
Total PeCDF	ND	0.154	ND
Total HxCDF	ND	0.263	ND
Total HpCDF	ND	0.197	ND

ECOLOGY AND ENVIRONMENT

TL-RTP Project: 31706B

Method 8280 PCDD/PCDF Analysis (b)

Client Sample: NM9-SB03-01-SD-022195

Analysis File: E950727

Client Project: JOB# 9500-385

Matrix: SOIL

PCDD/PCDF SUMMARY REPORT

Specific Analytes	Conc. (ppb)	DL (ppb)	Blank (ppb)	Definitions:
2,3,7,8-TCDD	ND	0.0272	ND	
1,2,3,7,8-PeCDD	ND	0.307	ND	
1,2,3,4,7,8-HxCDD	ND	0.126	ND	
1,2,3,6,7,8-HxCDD	ND	0.0928	ND	
1,2,3,7,8,9-HxCDD	ND	0.176	ND	
1,2,3,4,6,7,8-HpCDD	ND	0.241	ND	
1,2,3,4,6,7,8,9-OCDD	0.297	0.0743	ND	
2,3,7,8-TCDF	ND	0.0321	ND	
1,2,3,7,8-PeCDF	ND	0.114	ND	
2,3,4,7,8-PeCDF	ND	0.218	ND	
1,2,3,4,7,8-HxCDF	ND	0.265	ND	
1,2,3,6,7,8-HxCDF	ND	0.348	ND	
2,3,4,6,7,8-HxCDF	ND	0.303	ND	
1,2,3,7,8,9-HxCDF	ND	0.218	ND	
1,2,3,4,6,7,8-HpCDF	ND	0.189	ND	
1,2,3,4,7,8,9-HpCDF	ND	0.236	ND	
1,2,3,4,6,7,8,9-OCDF	ND	0.22	ND	

Total Analytes	Conc. (ppb)	DL (ppb)	
Total TCDD	ND	0.272	
Total PeCDD	ND	0.307	
Total HxCDD	ND	0.132	
Total HpCDD	ND	0.241	
Total TCDF	ND	0.0321	
Total PeCDF	ND	0.166	
Total HxCDF	ND	0.284	
Total HpCDF	ND	0.212	

ECOLOGY AND ENVIRONMENT ENVIRONMENT

TL-RTP Project: **31706B**
 Client Sample: **NM9-SB03-02-SM-022195**
 Client Project: **JOB# 9500-385**

Method 8280 PCDD/PCDF Analysis (b)
 Analysis File: **E950723**
 Matrix: **SOIL**

PCDD/PCDF SUMMARY REPORT

Specific Analytes	Conc. (ppb)	DL (ppb)	Conc. Blank (ppb)	DL (ppb)	Definitions:
2,3,7,8-TCDD	ND	0.0262	ND	0.0262	Conc. - The concentration of the specific analyte in the units shown. DL - The detection limit of the specific analyte in the units shown. Blank - The concentration of the method blank. ND - (Non-Detect) The concentration of the analyte is less than the detection limit.
1,2,3,7,8-PeCDD	ND	0.296	ND	0.296	
1,2,3,4,7,8-HxCDD	ND	0.121	ND	0.121	
1,2,3,6,7,8-HxCDD	ND	0.0896	ND	0.0896	
1,2,3,7,8,9-HxCDD	ND	0.17	ND	0.17	
1,2,3,4,6,7,8-HpCDD	ND	0.232	ND	0.232	
1,2,3,4,6,7,8,9-OCDD	ND	0.0717	ND	0.0717	
2,3,7,8-TCDF	ND	0.031	ND	0.031	ND - (Non-Detect) The concentration of the analyte is less than the detection limit.
1,2,3,7,8-PeCDF	ND	0.11	ND	0.11	
2,3,4,7,8-PeCDF	ND	0.21	ND	0.21	
1,2,3,4,7,8-HxCDF	ND	0.256	ND	0.256	
1,2,3,6,7,8-HxCDF	ND	0.336	ND	0.336	
2,3,4,6,7,8-HxCDF	ND	0.293	ND	0.293	
1,2,3,7,8,9-HxCDF	ND	0.211	ND	0.211	
1,2,3,4,6,7,8-HpCDF	ND	0.183	ND	0.183	
1,2,3,4,7,8,9-HpCDF	ND	0.227	ND	0.227	
1,2,3,4,6,7,8,9-OCDF	ND	0.212	ND	0.212	

Total Analytes	Conc. (ppb)	DL (ppb)	Conc. (ppb)	DL (ppb)
Total TCDD	ND	0.262	0.262	
Total PeCDD	ND	0.296	0.296	
Total HxCDD	ND	0.127	0.127	
Total HpCDD	ND	0.232	0.232	
Total TCDF	ND	0.031	0.031	
Total PeCDF	ND	0.16	0.16	
Total HxCDF	ND	0.274	0.274	
Total HpCDF	ND	0.205	0.205	

Overview

The samples were extracted and analyzed according to the procedures described in EPA Method 8280. Any particular difficulties encountered during the sample handling by Triangle Labs will be discussed in the QC Remarks section below. The results reported relate only to the items tested.

Sample Extraction

The water samples have been separatory funnel extracted with methylene chloride to produce a final extract. Eighty percent of the extract was archived while 20% was processed through the cleanup procedures.

The cleanup of extracts may include the use of bulk acid/base washes, and acid silica, basic silica, activated alumina, and carbon column liquid chromatography.

Sample Analysis

A five point initial calibration curve was analyzed in triplicate on each instrument used for sample analysis. Calibration ranges are listed below and are based on sample size. A continuing calibration check and a column performance evaluation are analyzed at the beginning of each twelve hour period of sample analysis. The daily calibration solution, which is used to evaluate both the GC resolution and the calibration range, is also performed at the end of each twelve hour analytical sequence.

COMPOUNDS	SOLID	WATER	
	10 gram sample ppb (ug/kg)	1 liter sample ppt (ng/L)	ppb(ug/L)
TCDD/TCDF PeCDD/PeCDF	1-20	10-200	.01-.2
HxCDD/HxCDF HpCDD/HpCDF	2.5-50	25-500	.025-.5
OCDD/OCDF	5-100	50-1000	.05-1.0

Some of the labeled standards used in the analysis have ion fragments with the same mass as the quantitation mass of some of the analytes. These lower mass fragments appear as peaks or "breakthrough" in the analyte channels. This can often be witnessed in the cases of ¹³C₁₂-TCDF internal standard appearing in the TCDD analyte channels, ¹³C₁₂-HxCDD internal and recovery standards appearing in the HpCDF analyte channels, and ¹³C₁₂-HpCDF internal standard appearing in the HpCDD analyte channels. For most of the above situations, the interfering peaks due to the labeled standards lie outside the retention time window of the analyte. In the case of TCDD/TCDF, the interferences usually lie within the retention time window. Whenever breakthrough peaks occur from the labeled standards, these peaks are reported as EMPCs, and may be considered artifacts from the labeled standards. This is a limitation caused by the use of low-resolution mass spectrometry (LRMS), recommended in the method.

Quality Control Samples

A laboratory method blank -- identified as the TLI Water Blank -- was prepared along with the samples. One such sample per 20 field samples (or less) of a given matrix is prepared. As per client's request the samples 23600.12 MS and 23600.18 MSD were used to prepare matrix spike and matrix spike duplicate quality control samples. A report summarizing percent recoveries and relative percent differences is included in this data package.

The advisory quality control range for internal and surrogate standard percent recoveries is 40-120 percent recovery (25-120 for the OCDD internal standard). If recoveries are below the advisory range, analyte results are judged to be valid as long as the ratio of signal to noise in the standard channel is greater than 10:1 and greater than 10% recovery.

QC Remarks

The release of this particular set of Ecology and Environment, Inc. analytical data by Triangle Labs was authorized by the Quality Control Chemist who has reviewed each sample data package individually following a series of inspections/reviews. When applicable, general deviations from acceptable QC requirements are identified below and comments are made on the effect of these deviations upon the validity and reliability of the results. Specific QC issues associated with this particular project are:

Sample Receipt:

Seven water samples were received from Ecology and Environment, Inc. in good condition on March 28, 1995 at 5°C and were stored in a refrigerator at 4°C until the time of extraction.

Sample Preparation Laboratory:

Ten to fifteen milliliters of sample 23360.07 was lost during the water shake out. However, the internal standard recoveries for this sample is consistent with the internal standard recoveries for all of the other samples. This small loss of sample is not considered to have an impact on the reported results.

Mass Spectrometry: None.

Data Review:

The internal and clean-up standards for these samples are within the QC advisory limits of 40-120% or meet 10:1 signal to noise criteria in all cases. All MS/MSD percent recoveries and relative percent differences were within QC advisory limits.

Other Comments:

No 2,3,7,8-substituted target analytes were detected in the TLI Blank above the method detection limit (MDL).

Sample Calculations:

Method 8280 does not specify which of the two monitored masses to use for quantitation of all of the isotope-labeled standards. Following the pattern established by the method, we have selected which mass to use for each analyte and standard based on the theoretical ratio. For groups with theoretical ratios that are greater than one (the pentas, hexas, and heptas), the first monitored mass should be larger and is therefore used for quantitation. For channels with theoretical ratios of less than one (the tetras and octas), the second monitored mass should generally be larger and is used for quantitation.

Analyte Concentration

The concentration or amount of any analyte is calculated using the following expression.

$$C(\delta) = \frac{A_{\delta} * Q_{\beta}}{A_{\beta} * RRF(\delta) * W}$$

where:

$C(\delta)$ is the concentration or amount of a given analyte

A_{δ} is the integrated ion current of the quantitation ion of the analyte

A_{β} is the integrated current of the quantitation ion of the internal standard

Q_{β} is the amount of internal standard added to the sample before extraction

$RRF(\delta)$ is the analyte relative response factor from the continuing calibration

W is the sample weight or volume

Detection Limits

The detection limit reported for a target analyte was derived from a method validation study performed by Triangle Laboratories of RTP, Inc. The reported detection limit has been adjusted for each sample using the actual sample size extracted and any dilution factors associated with that sample analysis.

Data Flags None.


The value reported for "EMPCs" represents the estimated maximum possible concentration reported for GC/MS peaks eluting within the retention time windows established by the daily GC performance analysis, and which are characterized by a signal-to-noise ratio in excess of 2.5:1, but which do not meet the ion abundance ratio criteria. The "EMPC" is calculated by using the same expression used for reporting the identified analyte concentrations. An EMPC can be reported for a non-detected specific isomer (e.g. 2,3,7,8-TCDD) but can also be reported for "totals" (e.g. Total TCDD) in which case the "total" EMPC represents the sum of all the positively identified PCDD/PCDF peaks and of the peaks that do not meet all the identification criteria.


By our interpretation, the analytical data in this project are valid based on the guidelines of EPA Method 8280. Any specific QC concerns or problems have been discussed in the QC Remarks section with emphasis on their affect on the data. Should Ecology and Environment, Inc. have any questions or comments regarding this data package, please feel free to contact Rose West, Project Manager, at (919) 544-5729.

For Triangle Laboratories of RTP, Inc.,

Report Preparation

Quality Control


Vijay Singh Chhabra

 4/5/95
PATRICIA CHAGARIS
Report Preparation Chemist

Report Preparation Chemist

Total pages in report: 513

To be included with all lab data and with each workplan

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE IDENTIFICATION AND ANALYTICAL REQUIREMENT SUMMARY

Customer Sample Code	Laboratory Sample Code	Analytical Requirements					*Other
		*VOA GC/MS Method #	*BNA GC/MS Method #	*VOA GC Method #	*Pest PCBs Method #	*Metals	
MW7-1-WR	23360						DIOXIN
MW10-1-WD	23361						
MW10-7-WD	23362						
MW3-5A-WD	23600						
MW3-3-WD	23716						



CHAIN-OF-CUSTODY RECORD

Project No.: NMB0020		Project Name: NIAGARA FALLS IAP-ARS GW STUDY		Project Manager: J. BASTEDO		<div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center;">REMARKS</p> <p style="text-align: center;">METALS PRES. w/ HNO₃</p> <p style="text-align: center;">BOTTLE LOT #'s IN LOG</p> </div>												
Samplers: (Signatures)				Field Team Leader: R. WATT								<div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center;">REMARKS</p> <p style="text-align: center;">METALS PRES. w/ HNO₃</p> <p style="text-align: center;">BOTTLE LOT #'s IN LOG</p> </div>						
DATE		TIME		SAMPLE INFORMATION														STATION LOCATION
STATION NUMBER	DATE	TIME	SAMPLE TYPE	EXPECTED COMPOUNDS (Concentration)*	SAMPLE NO.													
	1995		COMP															
			GRAB															
			AIR															
MWB-5A	3-21	0945		(Low)	NMB-MWB-5A-WO-032195	6	x	x	x	x								
MWB-7		1011			NMB-MWB-7-WO-032195	6	x	x	x	x								
MWB-7D		1005			NMB-MWB-7D-WO-032195	6	x	x	x	x								
MWB-8		0955			NMB-MWB-8-WO-032195	6	x	x	x	x								
MWB-9D		1017			NMB-MWB-9D-WO-032195	6	x	x	x	x								
MWB-10D		0928			NMB-MWB-10D-WO-032195	6	x	x	x	x								
MW7-1		1350			NMB-MW7-1-WO-032195	5	x	x		x								
MW7-2		1325			NMB-MW7-2-WO-032195	5	x	x		x								
MW7-3		1405			NMB-MW7-3-WO-032195	4	x			x								NOT ENOUGH WATER TO GET BNA TODAY
MW7-4		1335			NMB-MW7-4-WO-032195	5	x	x		x								
MW7-4D		1340			NMB-MW7-4D-WO-032195	5	x	x		x								See Job # 9120-595
MW10-1					NMB-MW10-1-WO-032195	7	x	x	x	x	x							
		1535			NMB-MW7-1-WR-032195	7	x	x	x	x	x							RINSTATE
		1140			NMB-MW7-1-WT-032195	3	x											TRIP BLANK
Relinquished By: (Signature)		Date/Time:		Received By: (Signature)		Relinquished By: (Signature)		Date/Time:		Received By: (Signature)		Ship Via: E&E						
Relinquished By: (Signature)		Date/Time:		Received By: (Signature)		Relinquished By: (Signature)		Date/Time:		Received By: (Signature)		BL/Airbill Number: WA						
Relinquished By: (Signature)		Date/Time:		Received For Laboratory By: (Signature)		Relinquished By: (Signature)		Date/Time:		Received For Laboratory By: (Signature)		Date: 3-21-95						

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files
*See CONCENTRATION RANGE on back of form.



CHAIN OF CUSTODY RECORD

Project No.: N18060		Project Name: N18060 FACS TAP ADS GW STUDY		Project Manager: J. BASTEDO		<div style="border: 1px solid black; padding: 5px;"> B2W0 VCS B2W0 INIA B080 PCB B2W0 REDD/RED PRICE FOR PERMS </div>			REMARKS					
Samplers (Signature): <i>G. Att</i>		Field Team Leader: R. WATT												
STATION NUMBER	DATE	TIME	SAMPLE TYPE			SAMPLE INFORMATION	STATION LOCATION, SAMPLER NO.	NUMBER OF CONTAINERS						
			COMP	GRAB	AIR						EXPECTED COMPOUNDS (Concentration)*			
NW107	3-20	1600		✓		(LOW)	NHR-NW10-7-WO-032195	7	X	X	X	X		
		21												
		RELEASER												
		3/21/95												
Relinquished By: (Signature)		Date/Time:	Received By: (Signature)		Date/Time:	Received By: (Signature)		Ship Via:						
<i>[Signature]</i>		3-21-95/1800	<i>[Signature]</i>			<i>[Signature]</i>		EPE						
Relinquished By: (Signature)		Date/Time:	Received By: (Signature)		Date/Time:	Received By: (Signature)		BL/Airbill Number:		Date:				
<i>[Signature]</i>			<i>[Signature]</i>			<i>[Signature]</i>		NA		3-21-95				
Relinquished By: (Signature)		Date/Time:	Received For Laboratory By: (Signature)		Date/Time:	Received For Laboratory By: (Signature)								
<i>[Signature]</i>			<i>Scott Strawn</i>			<i>[Signature]</i>								

BOTTLE LOT #'S IN LOC.
METALS PRES. W/ HNO3 TO #1 & 2

Temp Blanks: 0.5
0.5
2.0
upon receipt 3/21/95 *[Signature]*

[Signature]

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files
and environment



CHAIN-OF-CUSTODY RECORD

Project No.: NM8060		Project Name: NIAGARA FALLS IAP-ARS GW STUDY		Project Manager: J. BASTEDO		REMARKS			
Samplers: (Signatures) <i>Bastedo</i>		Field Team Leader: G. FLORENTINO							
STATION NUMBER	DATE	TIME	SAMPLE TYPE			STATION LOCATION	NUMBER OF CON. TAINERS	REMARKS	
			COMP	GRAB	AIR				EXPECTED COMPOUNDS (Concentration)*
MW330	3-23	1245	X			NM8-MW3-3D-WO-032395	6	X X X X	
3-4		1420	X			NM8-MW3-4-WO-032395	5	X X X X	
3-5A		1355	X			NM8-MW3-5A-WO-032395	6	X X X X	
3-5A		1355	X			NM8-MW3-5A-WM-032395	6	X X X X	
3-5A		1355	X			NM8-MW3-5A-WD-032395	6	X X X X	
3-6A		1515	X			NM8-MW3-6A-WO-032395	5	X X X	
3-7		1225	X			NM8-MW3-7-WO-032395	6	X X X X	
<p>MEH 8240 VOCs Meth 8270 BVA NRH 3080 BVA PCLOR BIL METALS PCDD/PCDF</p>									
<p>LOW</p> <p>↓</p>									
<p>METALS PRESERVED W/ HNO₃ BOTTLE LOTS IN LOG.</p> <p>MS MSD</p>									
Relinquished By: (Signature)		Date/Time:		Received By: (Signature)		Date/Time:		Received By: (Signature)	
Relinquished By: (Signature)		Date/Time:		Received By: (Signature)		Date/Time:		Received By: (Signature)	
Relinquished By: (Signature) <i>J. Bastedo</i>		Date/Time: 1800 3/23/95		Received For Laboratory By: (Signature) <i>Scott Ham</i>		Date/Time:		Received For Laboratory By: (Signature)	
Ship Via: E&E HAND DELIVERY								Date: 03/23/95	

Distribution: Original Accompanies Shipment; Copy to Coordinator Field File
*See CONCENTRATION RANGE on back of form.



CHAIN OF CUSTODY RECORD

Project No.: NM8060		Project Name: NIAGARA FALLS IAP-ARS GW STUDY		Project Manager: J. BASTEDO		Meth 8240 VOCs Meth 8270 BVA Meth 8080 PCBs PQLC PAH-Metals PCDD/PCDF						REMARKS METALS PRESERVED W/ HNO ₃ BOTTLE LOT #'S IN BOOK							
Samplers (Signatures): <i>Angelo...</i>		Field Team Leader: G. FLORENTINO																	
STATION NUMBER	DATE	TIME	SAMPLE TYPE			STATION LOCATION	NUMBER OF CONTAINERS	EXPECTED COMPOUNDS (Concentration)*											
			COMP	GRAB	AIR														
MW3-1	3-24	1145		X		NM8-MW3-1-WO-032495	6	X	X	X	X								
MW3-2		0800		X		NM8-MW3-2-WO-032495	6	X	X	X	X								
MW3-3		0815		X		NM8-MW3-3-WO-032495	7	X	X	X	X	X							
MW3-4		0930		X		NM8-MW3-4-WO-032495	1				X								
MW3-5A		0945		X		NM8-MW3-5A-WO-032495	1				X								
MW3-5A		0745		X		NM8-MW3-5A-WM-032495	1				X								
MW3-5A		0745		X		NM8-MW3-5A-WD-032495	1				X								
MW3-6A		1000		X		NM8-MW3-6A-WO-032495	1				X								
MW13-1		1145		X		NM8-MW13-1-WO-032495	6	X	X	X	X								
MW13-2		1200		X		NM8-MW13-2-WO-032495	6	X	X	X	X								
MW13-3		1116		X		NM8-MW13-3-WO-032495	6	X	X	X	X								
MW13-4		1447		X		NM8-MW13-4-WO-032495	6	X	X	X	X								
MW13-5		1410		X		NM8-MW13-5-WO-032495	6	X	X	X	X								
MW13-5D		1210		X		NM8-MW13-5D-WO-032495	6	X	X	X	X								
Relinquished By: (Signature)		Date/Time:		Received By: (Signature)		Relinquished By: (Signature)		Date/Time:		Received By: (Signature)		Ship Via:							
												EOE HAND DELIVERY							
Relinquished By: (Signature)		Date/Time:		Received By: (Signature)		Relinquished By: (Signature)		Date/Time:		Received By: (Signature)		BL/Airbill Number:							
Relinquished By: (Signature)		Date/Time:		Received For Laboratory By: (Signature)		Relinquished By: (Signature)		Date/Time:		Received For Laboratory By: (Signature)		Date:							
		3/24/95										03/24/95							

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files
CONCENTRATION RANGE on back of form.

ECOLOGY AND ENVIRONMENT

L-RTP Project: 32100
 Client Sample: 23360.07 MW7-1-WR
 Client Project: JOB #9500.596

Method 8280 PCDD/PCDF Analysis (b)
 Analysis File: E951238
 Matrix: WATER

PCDD/PCDF SUMMARY REPORT

Specific Analytes	Conc. (ppt)	DL (ppt)	Blank (ppt)	Definitions:
2,3,7,8-TCDD	ND	1.1	ND	Conc. - The concentration of the specific analyte in the units shown. DL - The detection limit of the specific analyte in the units shown. Blank - The concentration of the method blank. ND - (Non-Detect) The concentration of the analyte is less than the detection limit.
1,2,3,7,8-PeCDD	ND	4.5	ND	
1,2,3,4,7,8-HxCDD	ND	5.8	ND	
1,2,3,6,7,8-HxCDD	ND	7.9	ND	
1,2,3,7,8,9-HxCDD	ND	1.8	ND	
1,2,3,4,6,7,8-HpCDD	ND	2.3	ND	
1,2,3,4,6,7,8,9-OCDD	ND	1.6	ND	
2,3,7,8-TCDF	ND	1.9	ND	
1,2,3,7,8-PeCDF	ND	2.9	ND	
2,3,4,7,8-PeCDF	ND	7.7	ND	
1,2,3,4,7,8-HxCDF	ND	17.5	ND	
1,2,3,6,7,8-HxCDF	ND	7.1	ND	
2,3,4,6,7,8-HxCDF	ND	11	ND	
1,2,3,7,8,9-HxCDF	ND	7.2	ND	
1,2,3,4,6,7,8-HpCDF	ND	1.5	ND	
1,2,3,4,7,8,9-HpCDF	ND	2.7	ND	
1,2,3,4,6,7,8,9-OCDF	ND	4.1	ND	

Total Analytes	Conc. (ppt)	DL (ppt)	
Total TCDD	ND	1.1	
Total PeCDD	ND	4.5	
Total HxCDD	ND	5.17	
Total HpCDD	ND	2.3	
Total TCDF	ND	1.9	
Total PeCDF	ND	5.3	
Total HxCDF	ND	10.7	
Total HpCDF	ND	2.1	

ECOLOGY AND ENVIRONMENT ENVIRONMENT

TL-RTP Project: **32100**
 Client Sample: **23600.06 MW3-SA-WO**
 Client Project: **JOB #9500.624 MS/MSD**

Method 8280 PCDD/PCDF Analysis (b)
 Analysis File: **E951241**
 Matrix: **WATER**

PCDD/PCDF SUMMARY REPORT

Specific Analytes	Conc. (ppt)	DL (ppt)	Blank (ppt)	Definitions
2,3,7,8-TCDD	ND	1.1	ND	Conc. - The concentration of the specific analyte in the units shown. DL - The detection limit of the specific analyte in the units shown. Blank - The concentration of the method blank. ND - (Non-Detect) The concentration of the analyte is less than the detection limit.
1,2,3,7,8-PeCDD	ND	4.5	ND	
1,2,3,4,7,8-HxCDD	ND	5.8	ND	
1,2,3,6,7,8-HxCDD	ND	7.9	ND	
1,2,3,7,8,9-HxCDD	ND	1.8	ND	
1,2,3,4,6,7,8-HpCDD	ND	2.3	ND	
1,2,3,4,6,7,8,9-OCDD	ND	1.6	ND	
2,3,7,8-TCDF	ND	1.9	ND	
1,2,3,7,8-PeCDF	ND	2.9	ND	
2,3,4,7,8-PeCDF	ND	7.7	ND	
1,2,3,4,7,8-HxCDF	ND	17.5	ND	
1,2,3,6,7,8-HxCDF	ND	7.1	ND	
2,3,4,6,7,8-HxCDF	ND	11	ND	
1,2,3,7,8,9-HxCDF	ND	7.2	ND	
1,2,3,4,6,7,8-HpCDF	ND	1.5	ND	
1,2,3,4,7,8,9-HpCDF	ND	2.7	ND	
1,2,3,4,6,7,8,9-OCDF	ND	4.1	ND	

Total Analytes	Conc. (ppt)	DL (ppt)	Conc. (ppt)	DL (ppt)
Total TCDD	ND	1.1		
Total PeCDD	ND	4.5		
Total HxCDD	ND	5.17		
Total HpCDD	ND	2.3		
Total TCDF	ND	1.9		
Total PeCDF	ND	5.3		
Total HxCDF	ND	10.7		
Total HpCDF	ND	2.1		

ECOLOGY AND ENVIRONMENT

TL-RTP Project: 32100
 Client Sample: 23716.07 MW3-3-WO
 Client Project: JOB #9500.646

Method 8280 PCDD/PCDF Analysis (b)
 Analysis File: E951244
 Matrix: WATER

PCDD/PCDF SUMMARY REPORT

Specific Analytes	Conc. (ppt)	DL (ppt)	Blank (ppt)	Definitions:
2,3,7,8-TCDD	ND	1.1	ND	
1,2,3,7,8-PeCDD	ND	4.5	ND	
1,2,3,4,7,8-HxCDD	ND	5.8	ND	
1,2,3,6,7,8-HxCDD	ND	7.9	ND	
1,2,3,7,8,9-HxCDD	ND	1.8	ND	
1,2,3,4,6,7,8-HpCDD	ND	2.3	ND	
1,2,3,4,6,7,8,9-OCDD	ND	1.6	ND	
2,3,7,8-TCDF	ND	1.9	ND	
1,2,3,7,8-PeCDF	ND	2.9	ND	
2,3,4,7,8-PeCDF	ND	7.7	ND	
1,2,3,4,7,8-HxCDF	ND	17.5	ND	
1,2,3,6,7,8-HxCDF	ND	7.1	ND	
2,3,4,6,7,8-HxCDF	ND	11	ND	
1,2,3,7,8,9-HxCDF	ND	7.2	ND	
1,2,3,4,6,7,8-HpCDF	ND	1.5	ND	
1,2,3,4,7,8,9-HpCDF	ND	2.7	ND	
1,2,3,4,6,7,8,9-OCDF	ND	4.1	ND	

Total Analytes	Conc. (ppt)	DL (ppt)
Total TCDD	ND	1.1
Total PeCDD	ND	4.5
Total HxCDD	ND	5.17
Total HpCDD	ND	2.3
Total TCDF	ND	1.9
Total PeCDF	ND	5.3
Total HxCDF	ND	10.7
Total HpCDF	ND	2.1

GP
4/5

1533

TL-RTP Project: 32100

Method 8280 PCDD/PCDF Analysis (b)

Client Sample: TLI WATER BLANK

Analysis File: E951236

Client Project: n/a

Matrix: WATER

PCDD/PCDF SUMMARY REPORT

Specific Analytes	Conc. (ppt)	DL (ppt)	Blank (ppt)	Definitions:
2,3,7,8-TCDD	ND	1.1	ND	<p>Conc. - The concentration of the specific analyte in the units shown.</p> <p>DL - The detection limit of the specific analyte in the units shown.</p> <p>Blank - The concentration of the method blank.</p> <p>ND - (Non-Detect) The concentration of the analyte is less than the detection limit.</p>
1,2,3,7,8-PeCDD	ND	4.5	ND	
1,2,3,4,7,8-HxCDD	ND	5.8	ND	
1,2,3,6,7,8-HxCDD	ND	7.9	ND	
1,2,3,7,8,9-HxCDD	ND	1.8	ND	
1,2,3,4,6,7,8-HpCDD	ND	2.3	ND	
1,2,3,4,6,7,8,9-OCDD	ND	1.6	ND	
2,3,7,8-TCDF	ND	1.9	ND	
1,2,3,7,8-PeCDF	ND	2.9	ND	
2,3,4,7,8-PeCDF	ND	7.7	ND	
1,2,3,4,7,8-HxCDF	ND	17.5	ND	
1,2,3,6,7,8-HxCDF	ND	7.1	ND	
2,3,4,6,7,8-HxCDF	ND	11	ND	
1,2,3,7,8,9-HxCDF	ND	7.2	ND	
1,2,3,4,6,7,8-HpCDF	ND	1.5	ND	
1,2,3,4,7,8,9-HpCDF	ND	2.7	ND	
2,3,4,6,7,8,9-OCDF	ND	4.1	ND	

Total Analytes	Conc. (ppt)	DL (ppt)
Total TCDD	ND	1.1
Total PeCDD	ND	4.5
Total HxCDD	ND	5.17
Total HpCDD	ND	2.3
Total TCDF	ND	1.9
Total PeCDF	ND	5.3
Total HxCDF	ND	10.7
Total HpCDF	ND	2.1

ECOLOGY AND ENVIRONMENT, INC.

TL-RTP Project: 31706A
 Client Sample: TLI WATER BLANK
 Client Project: n/a

Method 8280 PCDD/PCDF Analysis (b)
 Analysis File: B950410
 Matrix: WATER

PCDD/PCDF SUMMARY REPORT

Specific Analytes	Conc. (ppt)	DL (ppt)	Blank (ppt)	Definitions:
2,3,7,8-TCDD	ND	0.95	ND	<p>Conc. - The concentration of the specific analyte in the units shown.</p> <p>DL - The detection limit of the specific analyte in the units shown.</p> <p>Blank - The concentration of the method blank.</p> <p>ND - (Non-Detect) The concentration of the analyte is less than the detection limit.</p>
1,2,3,7,8-PeCDD	ND	6.6	ND	
1,2,3,4,7,8-HxCDD	ND	5.8	ND	
1,2,3,6,7,8-HxCDD	ND	10.2	ND	
1,2,3,7,8,9-HxCDD	ND	6.2	ND	
1,2,3,4,6,7,8-HpCDD	ND	5.7	ND	
1,2,3,4,6,7,8,9-OCDD	ND	6.8	ND	
2,3,7,8-TCDF	ND	2.2	ND	
1,2,3,7,8-PeCDF	ND	7.9	ND	
2,3,4,7,8-PeCDF	ND	9	ND	
1,2,3,4,7,8-HxCDF	ND	5.8	ND	
1,2,3,6,7,8-HxCDF	ND	3.9	ND	
2,3,4,6,7,8-HxCDF	ND	5.6	ND	
1,2,3,7,8,9-HxCDF	ND	4.5	ND	
1,2,3,4,6,7,8-HpCDF	ND	4.6	ND	
1,2,3,4,7,8,9-HpCDF	ND	5.4	ND	
1,2,3,4,6,7,8,9-OCDF	ND	5.3	ND	

Total Analytes	Conc. (ppt)	DL (ppt)	
Total TCDD	ND	0.95	
Total PeCDD	ND	6.6	
Total HxCDD	ND	7.4	
Total HpCDD	ND	5.7	
Total TCDF	ND	2.2	
Total PeCDF	ND	8.45	
Total HxCDF	ND	4.95	
Total HpCDF	ND	5	

ECOLOGY AND ENVIRONMENT ENVIRONMENT

TL-RTP Project: 31706B
 Client Sample: TLI SOIL BLANK
 Client Project: n/a

Method 8280 PCDD/PCDF Analysis (b)
 Analysis File: E950718
 Matrix: NA2SO4

PCDD/PCDF SUMMARY REPORT

Specific Analytes	Conc. (ppb)	DL (ppb)	Blank (ppb)	Definitions:
2,3,7,8-TCDD	ND	0.0199	ND	Conc. - The concentration of the specific analyte in the units shown. DL - The detection limit of the specific analyte in the units shown. Blank - The concentration of the method blank. ND - (Non-Detect) The concentration of the analyte is less than the detection limit.
1,2,3,7,8-PeCDD	ND	0.225	ND	
1,2,3,4,7,8-HxCDD	ND	0.0922	ND	
1,2,3,6,7,8-HxCDD	ND	0.068	ND	
1,2,3,7,8,9-HxCDD	ND	0.129	ND	
1,2,3,4,6,7,8-HpCDD	ND	0.176	ND	
1,2,3,4,6,7,8,9-OCDD	ND	0.0544	ND	
2,3,7,8-TCDF	ND	0.0235	ND	
1,2,3,7,8-PeCDF	ND	0.0837	ND	
2,3,4,7,8-PeCDF	ND	0.159	ND	
1,2,3,4,7,8-HxCDF	ND	0.194	ND	
1,2,3,6,7,8-HxCDF	ND	0.255	ND	
2,3,4,6,7,8-HxCDF	ND	0.222	ND	
1,2,3,7,8,9-HxCDF	ND	0.16	ND	
1,2,3,4,6,7,8-HpCDF	ND	0.139	ND	
1,2,3,4,7,8,9-HpCDF	ND	0.173	ND	
1,2,3,4,6,7,8,9-OCDF	ND	0.161	ND	

Total Analytes	Conc. (ppb)	DL (ppb)	
Total TCDD	ND	0.199	
Total PeCDD	ND	0.225	
Total HxCDD	ND	0.0964	
Total HpCDD	ND	0.176	
Total TCDF	ND	0.0235	
Total PeCDF	ND	0.122	
Total HxCDF	ND	0.208	
Total HpCDF	ND	0.156	