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Monitoring Event 14 – April 1999
Sites 1 and 3 and Eastern Plume,
Naval Air Station, Brunswick, Maine

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

U.S. NAVAL AIR STATION
BRUNSWICK, MAINE

Prepared for

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

Prepared by

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June 1999
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Peter L. Nimmer/mep 6/18/99

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Program Manager

June 1999

QUALITY REVIEW STATEMENT

Contract No. N62472-92-D-1296 EA Project No.: 29600.47.7614
Contract Task Order No. 0047
Activity: Naval Air Station, Brunswick, Maine

Description of Report/Deliverable:

Monitoring Event 14 – April 1999, Sites 1 and 3 and Eastern Plume,
Naval Air Station, Brunswick, Maine

EA CTO Manager: Peter L. Nimmer, P.G.

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

Senior Technical Reviewer

6-17-99

James A. Shultz, C.P.G. (Date)
Senior Geologist

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1. PROJECT ACTIVITIES AND MONITORING EVENT RESULTS

1.1 INTRODUCTION

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

At Sites 1 and 3 and the Eastern Plume, the Navy is performing long-term monitoring, maintenance, and corrective measures as part of the long-term remedial actions required by the Record of Decision for a Remedial Action for Sites 1 and 3 (ABB-ES 1992) and the Record of Decision for No Further Action at Sites 4, 11, and 13 and a Remedial Action for the Eastern Plume (ABB-ES 1998). In 1994, a Long-Term Monitoring Plan (LTMP) was established for Sites 1 and 3 and the Eastern Plume (ABB-ES 1994). A draft revision to the 1994 LTMP was issued in October 1998 (EA 1998); and subsequent to Monitoring Event 14, a draft final version was issued in June 1999 (EA 1999). The draft LTMP document establishes the monitoring and sampling requirements for Sites 1 and 3 and the Eastern Plume and was used during Monitoring Event 14 (EA 1998).

Remedial actions at Sites 1 and 3 included construction of a low permeability slurry wall upgradient and surrounding two disposal trenches to a depth of approximately 90 ft, construction of a low permeability cap atop the landfill, and placement of 2 ground-water extraction wells within the landfill limits. Extraction wells within the landfill limits (EW-6 and EW-7) were deactivated on 19 November 1997 due to continually decreasing yields and stabilized water levels within the confines of the slurry wall. The source of the Eastern Plume has been identified as Sites 4, 11, and 13 (ABB-ES 1998). Ground water in the Eastern Plume is being remediated by a treatment system consisting of 6 ground-water extraction wells designed to provide hydraulic control of the aquifer, and a treatment plant to remove volatile organic compounds (VOC) from the ground water prior to discharge. The extraction system has been operational since April 1995. Extraction well EW-2A, located within the Eastern Plume in the vicinity of monitoring well MW-311, was activated on 12 June 1998 to provide additional hydraulic control in this area. Monthly ground-water extraction and treatment system operations reports provided to the Brunswick Sewer District summarize additional details related to treatment plant operations and maintenance.

Figure 2 shows the gauging and sampling points of the long-term monitoring network, Figure 3 shows long-term monitoring locations where gauging is conducted, and Figure 4 shows points where long-term monitoring samples are collected, as specified in the Draft LTMP (EA 1998). The sampling and gauging points at Sites 1 and 3 and the Eastern Plume are summarized in Tables 1 and 2, respectively.

During Monitoring Event 14, the Maine Department of Environmental Protection identified 3 ground-water seep sampling locations (SEEP-6, SEEP-7, and SEEP-8) within the Eastern Plume. Subsequent to sample collection at these locations by Maine Department of Environmental Protection, EA personnel completed sampling at SEEP-6, SEEP-7, and SEEP-8 as part of Monitoring Event 14. These locations have not been surveyed, and approximate locations are shown on Figure 4.

This report provides the results for the April 1999 monitoring/sampling event (Monitoring Event 14). Appendix A provides field monitoring and sampling forms, Appendix B provides an analytical data quality review, and Appendix C provides analytical report data tables.

Bi-monthly water level gauging data collected during January 1999 are also presented in this report. Temporal trends, conclusions, and recommendations based on data collected during Monitoring Event 14 will be included in the Annual Report for 1999.

1.2 MEASUREMENT OF WATER LEVEL ELEVATIONS

1.2.1 Field Activities

Water level measurements were obtained during Monitoring Event 14 on 1-2 April 1999 at the wells, piezometers, and surface water gauging locations indicated in Tables 1 and 2 for Sites 1 and 3 and Eastern Plume, respectively. Although not required by the Draft LTMP, bi-monthly water level data were collected on 5-7 January 1999 from Sites 1 and 3 and Eastern Plume monitoring wells, piezometers, and extraction wells. These additional bi-monthly water level data were collected to assess potential seasonality or significant variation in ground-water flow direction with time.

Figure 3 provides the locations of ground-water monitoring wells, piezometers, extraction wells, and surface water gauging stations, where water elevation data are collected. Sampling and gauging procedures are detailed in the final report for Monitoring Event 4 (EA 1996) and in the Draft LTMP (EA 1998).

A total of 2.08 in. of precipitation was measured 1 week before and during the January 1999 gauging period, and 1.37 in. of precipitation was measured 1 week before or during the April 1999 gauging period.

1.2.2 Results

Calculated ground-water elevation data are provided in Tables 3 and 4 for Sites 1 and 3 and the Eastern Plume, respectively. Daily pumping rates for each extraction well for the period 1 December 1998 through 30 April 1999 which may affect ground-water potentiometric surface elevations are provided in Table 5. During the well gauging conducted as part of Monitoring Event 14, the following exceptions to the Draft LTMP were noted:

- Water level measurements could not be obtained inthe following dry wells or piezometers: MW-202B (Sites 1 and 3), P-110, and P-124 (Eastern Plume).

- Water level measurements could not be obtained from the following frozen wells and surface water gauging stations located within the Eastern Plume during the January 1999 gauging: MW-207A, MW-331, MW-333, MW-334, MW-309B, EP-3, EP-6, EP-9, and GP-3.

- Extraction wells EW-4 (April 1999) and EW-6 (January and April 1999) could not be gauged due to excess water in the well vault due torainfall which prevented access to the well. Well vaults have been drained.

Shallow and deep potentiometric surface contour maps were prepared based on the water level data collected on 5-7 January and 1-2 April 1999. The shallow potentiometric surface contour maps are based upon data from wells and piezometers screened in the upper stratified silt/sand unit, while the deep potentiometric surface contour maps are based upon data from wells and piezometers screened in the lower sand unit. The shallow interval is under unconfined conditions, while the deep interval is considered to be under semi-confined conditions due to the presence of the transition unit above and the Presumscot Clay formation below. The distinction between shallow and deep potentiometric surfaces was made to reflect differences in potentiometric head observed at depth in wells located across Sites 1 and 3 and the Eastern Plume, and to assess differing flow patterns which may be present in shallow and deep intervals. The interpreted ground-water flow direction for 5-7 January and 1-2 April 1999 gauging events is shown on Figures 5 through 7, respectively, for the shallow portions of the aquifer, and Figures 8 through 11 for the deep portions of the aquifer.

Note that wells MW-210A, MW-210R, and MW-211A located at Sites 1 and 3, and MW-308 and MW-309A in the Eastern Plume, are screened inbedrock at significantly lower depths than deep overburden wells. MW-309B, a shallow bedrock well, is currently considered to be representative of the deep flow system, and is included on deep potentiometric surface maps (Figures 8 and 10). Consistent with previous monitoring events, the measured water elevations at these bedrock wells showed differing water elevations compared to nearby wells screened in the deep overburden and, therefore, the data for these bedrock wells were not used in the development of overburden potentiometric surface contour maps.

At Sites 1 and 3, a comparison of water elevation data collected during long-term monitoring indicates water elevations have decreased in the vicinity of the slurry wall due to active pumping and placement of the slurry wall and landfill cap (Figure 12). The deepest known elevation of the bottom of waste material at Sites 1 and 3 has been reported to be 32.9 ft mean sea level, at well MW-234R. The depth of ground water during January and April 1999 at monitoring well MW-234R was 33.20 and 33.00 ft mean sea level, respectively, which indicates approximately from 0.3 ft to 0.1 ft of waste material remains saturated at this location.

Observations made regarding well conditions during Monitoring Event 14 indicate minor repairs are required at monitoring well MW-217A (separated extension approximately 10 ft below the top of casing), and two artesian wells (MW-207A and MW-309A) at the Eastern Plume require new outer steel casing. These well repairs are not expected to affect water level gauging or ground-water sample results. Repairs have been scheduled to occur during Summer 1999, prior to Monitoring Event 15 (September 1999). The monitoring locations are secured with locks and monitoring points are labeled.

1.3 GROUND-WATER MONITORING, SAMPLING, AND ANALYSIS

1.3.1 Field Activities

The ground-water sampling program was performed during the period of 6-9 and 14 April 1999 at Sites 1 and 3 and Eastern Plume. Dedicated Grundfos Redi-Flo2 stainless steel and Teflon® submersible pumping systems were utilized at a majority of the wells to permit sampling using the low-flow sampling technique with the exception of 5 wells/piezometers located in the Eastern Plume which were sampled using a peristaltic pump (MW-105A, MW-330, MW-333, P-106, and P-111).

At Sites 1 and 3, ground-water samples were collected from the 8 monitoring wells specified in the Draft LTMP (EA 1998). At the Eastern Plume site, ground-water samples were collected from the 28 wells and piezometers, and 5 of 6 extraction wells specified in the Draft LTMP. Extraction well EW-3 is offline due to well damage, and it was not sampled as part of Monitoring Event 14.

Tables 1 and 2 provide lists of the wells/piezometers gauged and sampled during Monitoring Event 14. A detailed description of sample collection methods is provided in the final report for Monitoring Event 4 (EA 1996).

1.3.2 Water Quality Indicator Parameter Measurements

Water quality indicator parameters, including pH, conductivity, temperature, dissolved oxygen, and turbidity, were monitored to ensure stabilization of water quality prior to sample collection. Stabilization of water quality indicator parameters was considered achieved when measurements agreed to within 10 percent on three successive readings and turbidity was below 10 nephelometric turbidity units (NTU). Although not required by the Draft LTMP, oxidation-reduction potential (Eh) was recorded for informational purposes to assess geochemical conditions.

At Sites 1 and 3, 7 of 8 monitoring wells reached equilibrium of the water quality indicator parameters during well purging. Monitoring well MW-217B had 2 water quality parameters (Eh and turbidity) which did not stabilize to within 10 percent on three successive readings. This is consistent with past sampling events. It should be noted that the water level in MW-217B was drawn down to within 1 ft of the top of the pump. The pump was shut off and the well was

allowed to recharge prior to sampling. There was a malfunction with the pH probe on the YSI water quality meter at the time of sampling MW-217B. The probe was recalibrated and there were no further equipment problems.

At the Eastern Plume site, 26 of 28 wells/piezometers reached equilibrium of the water quality indicator parameters during well purging. Monitoring wells MW-305 and MW-330 each had one water quality parameter (turbidity and Eh, respectively) which did not stabilize to within 10 percent on three successive readings. Six of the 28wells/piezometers sampled (MW-205, MW230A, MW231A, MW-305, MW-330, and MW-334) reached equilibrium but had turbidity measurements in excess of 10 NTU. These elevated turbidity measurements are not expected to impact sample quality. Two minor equipment problems were encountered. While sampling well MW-229A, it was determined that the dissolved oxygen probe was inaccurate. The probe was recalibrated and there were no further equipment problems. While sampling MW-231B, it was determined that the turbidity probe was inaccurate. The water was visually clear during sampling. The probe was recalibrated and there were no further equipment problems.

1.3.3 Water Quality Results

Results of water quality indicator parameter monitoring at the time samples were collected are summarized in Tables 6 and 7 for ground-water samples collected at Sites 1 and 3 and the Eastern Plume, respectively. Water quality indicator parameters measured at the time the water samples were collected from extraction wells and treatment plant combined influent and treated effluent samples are summarized in Table 8. The Field Record of Well Gauging, Purging, and Sampling forms and Field Record of Surface Water/Sediment Sampling forms are provided in Appendix A.

Notable results of water quality indicator parameter measurements for ground water are described below for informational purposes, although sample data quality is not expected to be adversely impacted.

1.3.3.1 Sites 1 and 3

- One of 8 wells (MW-218) had a reported turbidity in excess of 10 NTU (19 NTU).

- An elevated level of conductivity was measured at MW-217B compared to other wells at Sites 1 and 3. This well is located within the Sites 1 and 3 landfill, and elevated conductivity results are consistent with previous samples from this well.

- Elevated dissolved oxygen concentrations approaching saturation (>9.0 mg/L) were noted in samples from 5 wells at Sites 1 and 3: MW-203 (9.14 mg/L), MW-204 (11.37 mg/L), MW-219 (9.17 mg/L), MW-240 (10.46 mg/L), and MW-2101 (9.28 mg/L).

- Reduced dissolved oxygen concentrations (<2.0 mg/L) were noted in samples from 2 monitoring wells at Sites 1 and 3 (MW-217B [0.74 mg/L] and MW-218 [0.84 mg/L]).

1.3.3.2 Eastern Plume

- Turbidity values below 10 NTU were recorded at 18 of 28 monitoring wells and piezometers sampled. Turbidity values stabilized at other locations prior to sample collection, with the exception of MW-231B (equipment problem) and MW-305.

- Elevated dissolved oxygen concentrations approaching saturation (>9.0 mg/L) were noted in 7 wells/piezometers at the Eastern Plume: MW-105A (9.89 mg/L), MW-224 (10.60 mg/L), MW-231A (11.72 mg/L), MW-231B (13.00 mg/L), MW-306 (11.53 mg/L), P-111 (10.74 mg/L), and P-132 (13.06 mg/L).

- Reduced dissolved oxygen concentrations (<2.0 mg/L) were noted in 13 monitoring wells.

1.3.3.3 Ground-Water Extraction and Treatment System

- An elevated dissolved oxygen concentration was recorded in the combined effluent.

1.3.4 Ground-Water Analytical Program

Ground-water samples collected from Sites 1 and 3 and the Eastern Plume were submitted for analysis of Target Compound List VOC by U.S. Environmental Protection Agency (EPA) Method 8260B. Ground-water samples collected from Sites 1 and 3 were further analyzed for Target Analyte List elements, including metals by inductively coupled plasma (EPA Method 6010), graphite furnace (EPA Method 7000 Series), and mercury by cold vapor atomic adsorption (EPA Method 7470).

Chromium was analyzed by inductively coupled plasma (EPA Method 6010) as specified in the Draft LTMP; the precision and accuracy objectives and reporting requirements identified in the Draft LTMP were met.

1.3.5 Ground-Water Sampling Results

1.3.5.1 Sites 1 and 3

Table 9 provides a summary of the analytical results for the ground-water samples collected at Sites 1 and 3. Laboratory Form I tables are provided in Appendix C.

1.3.5.2 Eastern Plume

Table 10 summarizes the analytical results for the ground-water samples collected at the Eastern Plume. Laboratory Form I tables are provided in Appendix C.

1.3.5.3 Total Volatile Organic Compound Isoconcentration Maps

The detected total VOC concentrations and interpreted isocontours for wells screened in the unconfined shallow interval at Sites 1 and 3 and the Eastern Plume are shown on Figure 13.

The detected total VOC concentrations and interpreted isocontours for wells screened within the deep interval are shown on Figure 14.

1.3.5.4 Ground-Water Extraction and Treatment System

Table 11 provides a summary of the VOC detected in ground-water extraction wells, treatment system influent, and treatment system combined effluent samples collected at the ground-water extraction and treatment system. The laboratory data (Form I tables) are provided in Appendix C.

1.4 SURFACE WATER AND SEEP SAMPLING AND ANALYSIS

1.4.1 Sampling Activities

The surface water, leachate seep, and leachate seep sediment samples at Sites 1 and 3 and surface water samples and ground-water seep at Eastern Plume were collected on 13 April 1999, in accordance with the general methodologies established in the Draft LTMP (EA 1998). The Maine Department of Environmental Protection identified 3 seep locations within the Eastern Plume (SEEP-6, SEEP-7, and SEEP-8), and one-time sampling was completed separately by EA personnel on 21 April 1999.

Surface water, ground-water seep, leachate seep, and leachate seep sediment samples were collected for analysis of Target Compound List VOC by EPA Method 8260B. Selected surface water samples and the leachate seep sediment samples at Sites 1 and 3 were additionally analyzed for Target Analyte List elements, including metals by inductively coupled plasma (EPA Method 6010), graphite furnace (EPA Method 7000 series), and mercury by cold vapor atomic adsorption (EPA Method 7470). Chromium was analyzed by inductively coupled plasma (EPA Method 6010). The precision and accuracy objectives and reporting requirements identified in the Draft LTMP were met.

1.4.2 Water Quality Indicator Parameter Measurement

Tables 12 and 13 provide a summary of the water quality indicator parameter measurements at the time the surface water and seep samples were collected at Sites 1 and 3, respectively. Notable results of water quality indicator parameters include:

- One leachate seep (SEEP-2) was dry, therefore, water quality parameters could not be measured.

- Surface water samples from SW-15 and SW-16 were collected under a separate program. Water quality parameters were not measured.

- The sample from one leachate seep (SEEP-3) had a reported a turbidity greater than 1,000 NTU.

1.4.3 Laboratory Results

1.4.3.1 Surface Water

Sites 1 and 3

Table 14 provides a summary of the VOC and Target Analyte List elements detected in surface water samples collected at Sites 1 and 3. The reports of laboratory analyses (Form I tables) are provided in Appendix C.

Eastern Plume

Table 15 provides a summary of the constituents detected in surface water samples collected at the Eastern Plume. The reports of laboratory analyses (Form I tables) are provided in Appendix C.

1.4.3.2 Leachate Seep Samples

Sites 1 and 3

Table 16 provides a summary of the constituents detected in leachate seep samples collected at Sites 1 and 3. The analytical reports (Form I tables) are provided inAppendix C.

Eastern Plume

Table 17 provides a summary of the constituents detected in ground-water seep samples collected at Eastern Plume. The analytical reports (Form I tables) are provided inAppendix C.

1.4.3.3 Leachate Sediment Samples

Table 18 provides a summary of the constituents detected in the leachate seep sediment samples collected at Sites 1 and 3. Reports of laboratory analyses (Form I tables) are provided in Appendix C.

1.5 LANDFILL GAS MONITORING AND CAP INSPECTION

1.5.1 Monitoring and Inspection Activities

Gas probe monitoring was conducted at Sites 1 and 3 on 20 April 1999 to monitor and identify subsurface gas migration, as specified in the Draft LTMP (EA 1998). Landfill gas monitoring procedures were performed in accordance with the Draft LTMP (EA 1998) and the final report for Monitoring Event 4 (EA 1996). Gas measurements were taken at each of the 3 gas probes (G-4, G-5, and G-6) located along the north and west side of the Weapons Compound Area and at each of the 14 gas vents (GV-1 through GV-14) located along the north and west sides of the landfill. The gas probe casings were observed to be in good repair and locked, and appeared to be in good condition. Two gas vents (GV-1 and GV-14) were observed to have been completed with plastic impact barriers, although these vents are located in areas away from potential vehicular traffic. Minor animal burrowing was noted in the vicinity of 11 of 14 gas vents.

The engineering inspection of the landfill cap and appurtenances noted the presence of erosion, and corrective measures have been completed to repair the areas of erosion noted in previous sampling events and to prevent further erosion. Significant erosion and standing water were noted in the area of the Sites 1 and 3 stormwater detention basin discharge pipe. Completion of necessary repairs to the landfill cap and drainage system, including the drainage along the eastern border and the western drainage swale, is scheduled to be conducted in the Summer of 1999 and will be summarized in a separate document following completion.

1.5.2 Landfill Gas Monitoring Results

Table 19 provides a summary of landfill gas monitoring conducted at the gas probes and gas vents located at Sites 1 and 3. Sample data were noted both in field logbooks and on the field record forms provided in Appendix A.

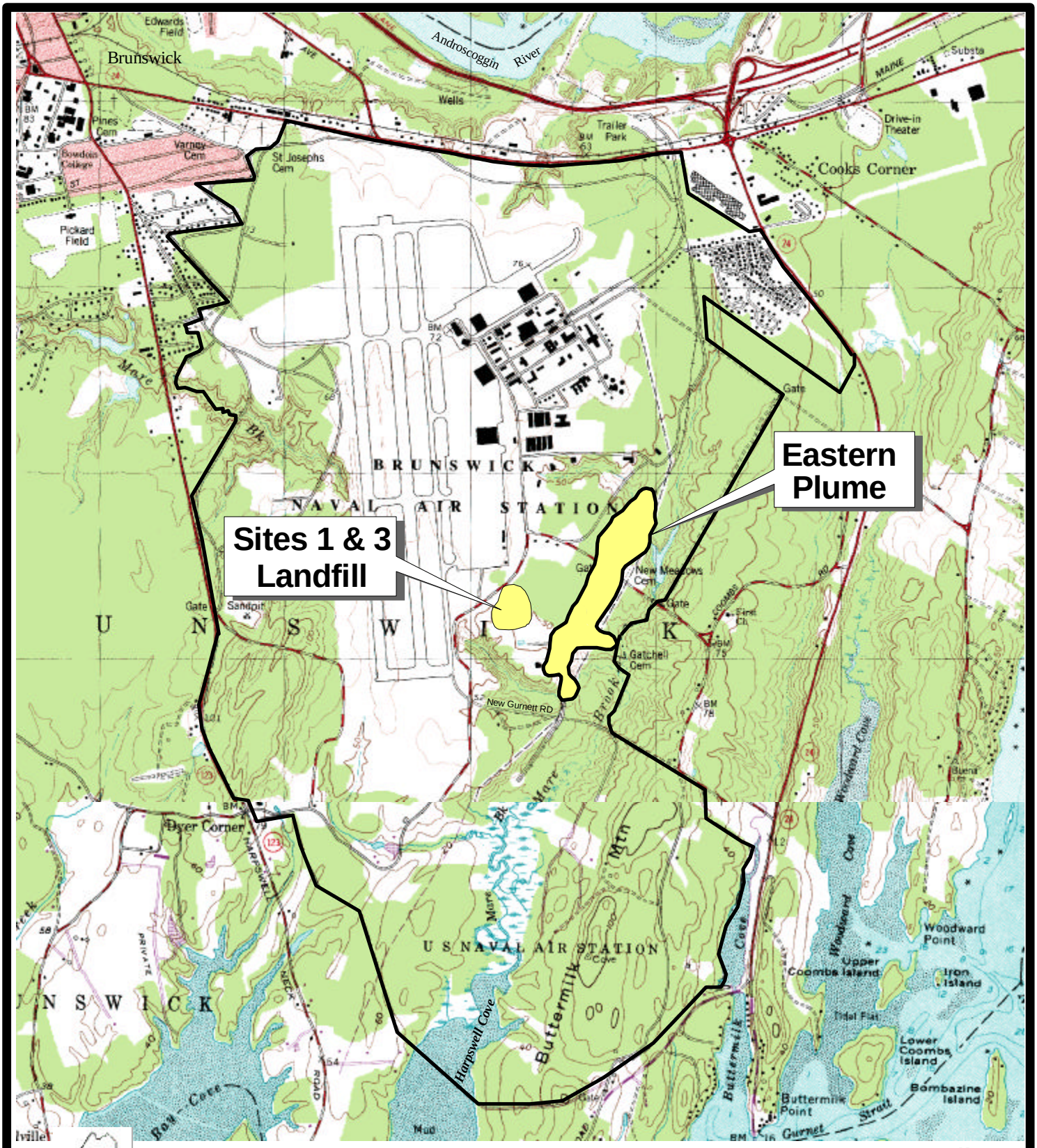
1.6 QUALITY ASSURANCE/QUALITY CONTROL

A rigorous quality assurance/quality control program is required to meet the data quality objectives of the aqueous and sediment sampling program, as outlined in the Quality Assurance Project Plan contained in the Draft LTMP (EA 1998). The data obtained during the April 1999 sampling event were determined to be of sufficient quality to be used for the objectives specified in the Draft LTMP (EA 1998).

1.7 ANALYTICAL DATA QUALITY REVIEW

As required by the Draft Quality Assurance Project Plan contained in the Draft LTMP (EA 1998), a review of laboratory data was performed on selected quality control parameters to evaluate precision, accuracy, representativeness, completeness, and comparability and data quality objective requirements. A summary of the analytical data quality review for chemical

data is provided in Appendix B. With consideration of the data qualifiers and notes provided in Appendix B, the data represented in this report were found to meet specified acceptance criteria and, therefore, represent data in compliance with the Draft Quality Assurance Project Plan (EA 1998). Method detection limits for sediment and aqueous media are included in Appendix B. Notable findings of the analytical data quality review are summarized in Table 20.



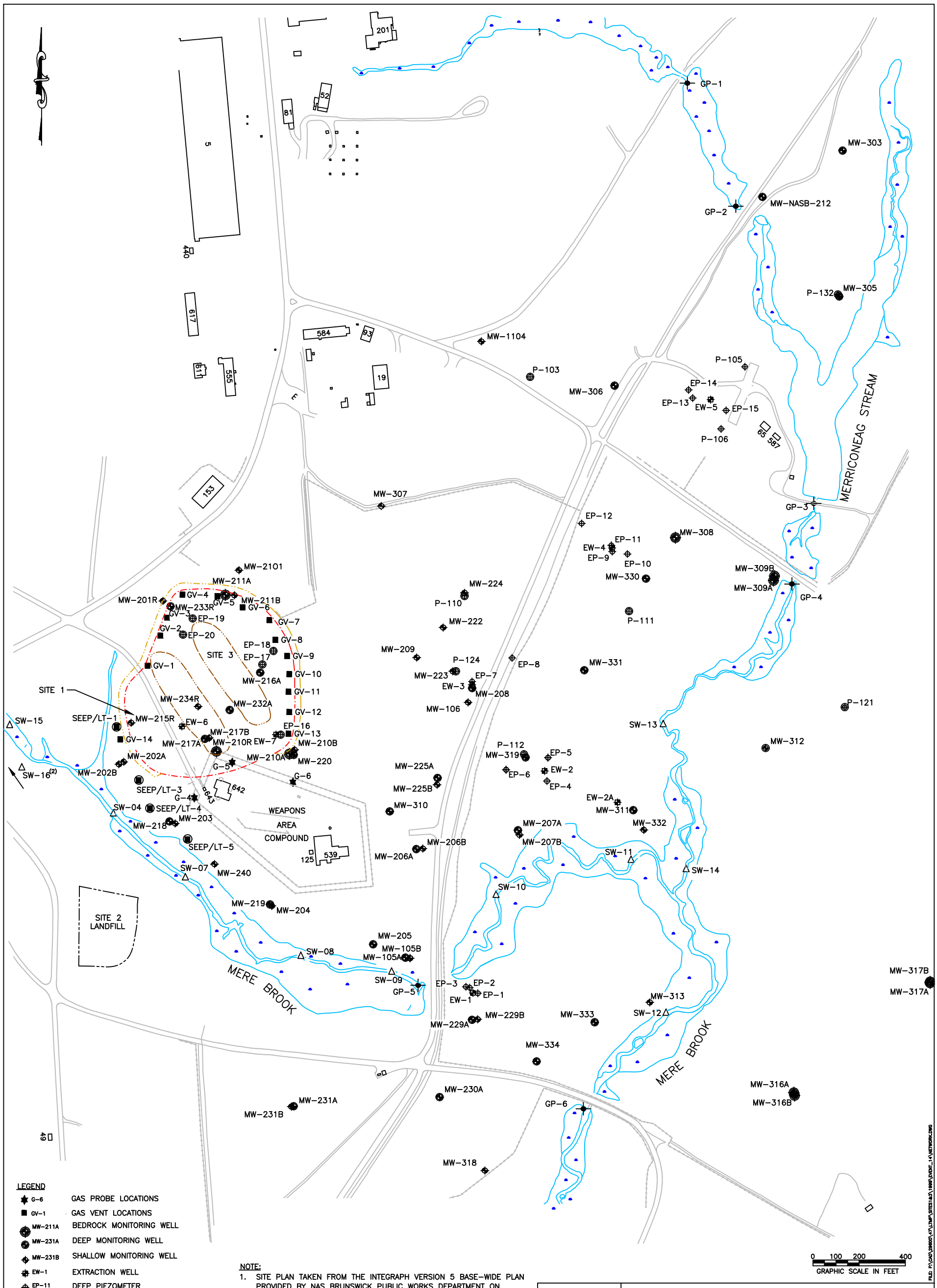
2000 0 2000 4000 Feet

N W E S

SOURCE MAPS: USGS ORRS ISLAND (1978) AND BRUNSWICK (1980) 7.5 MINUTE QUADRANGLES.

EA ENGINEERING, SCIENCE, AND TECHNOLOGY	SITES 1 AND 3 AND EASTERN PLUME NAVAL AIR STATION, BRUNSWICK, MAINE	FIGURE 1 SITE LOCATION MAP

PROJECT MGR	DESIGNED BY	DRAWN BY	CHECKED BY	SCALE	DATE	PROJECT No	FILE No
PLN	BT	BT	PLN	AS SHOWN	27 JAN 1999	29600.47	i\nasb_gis \navy.apr



LEGEND

G-6	GAS PROBE LOCATIONS
GV-1	GAS VENT LOCATIONS
MW-211A	BEDROCK MONITORING WELL
MW-231A	DEEP MONITORING WELL
MW-231B	SHALLOW MONITORING WELL
EW-1	EXTRACTION WELL
EP-11	DEEP PIEZOMETER
EP-16	SHALLOW PIEZOMETER
GP-5	SURFACE WATER GAUGING POINT
SEEP/LT-1	SEEP/LEACHATE LOCATIONS
SW-1	SURFACE WATER
	FENCE
	APPROXIMATE LIMITS OF SLURRY WALL
	APPROXIMATE LIMITS OF SITES 1 & 3
	APPROXIMATE LIMITS OF FORMER DISPOSAL TRENCHES
	APPROXIMATE BOUNDARY OF SITE 2 LANDFILL
	APPROXIMATE LIMIT OF EASTERN PLUME IN 1991 BASED ON DATA COLLECTED AS PART OF RI REPORT (ABB-ES 1991). PLUME SHAPE PROVIDED FOR COMPARISON PURPOSES TO LATER CONDITIONS.

NOTE:
1. SITE PLAN TAKEN FROM THE INTEGRAPH VERSION 5 BASE-WIDE PLAN PROVIDED BY NAS BRUNSWICK PUBLIC WORKS DEPARTMENT ON 13 OCTOBER 1995.
2. SW-16 LOCATED APPROXIMATELY 1,000 FT UPSTREAM OF SITES 1 AND 3.

0 100 200 400
GRAPHIC SCALE IN FEET

FILE: F:\CAD\29600\47\LTMP\SITES1&3\1999\QVENT_14\NETWORK.DWG

SITES 1 & 3 AND EASTERN PLUME
NAVAL AIR STATION, BRUNSWICK, MAINE

FIGURE 2
LONG-TERM MONITORING NETWORK

DATE	7 JUNE 1999
DESIGNED BY	PLN
DRAWN BY	SAP
CHECKED BY	PLN
PROJECT MANAGER	CEM

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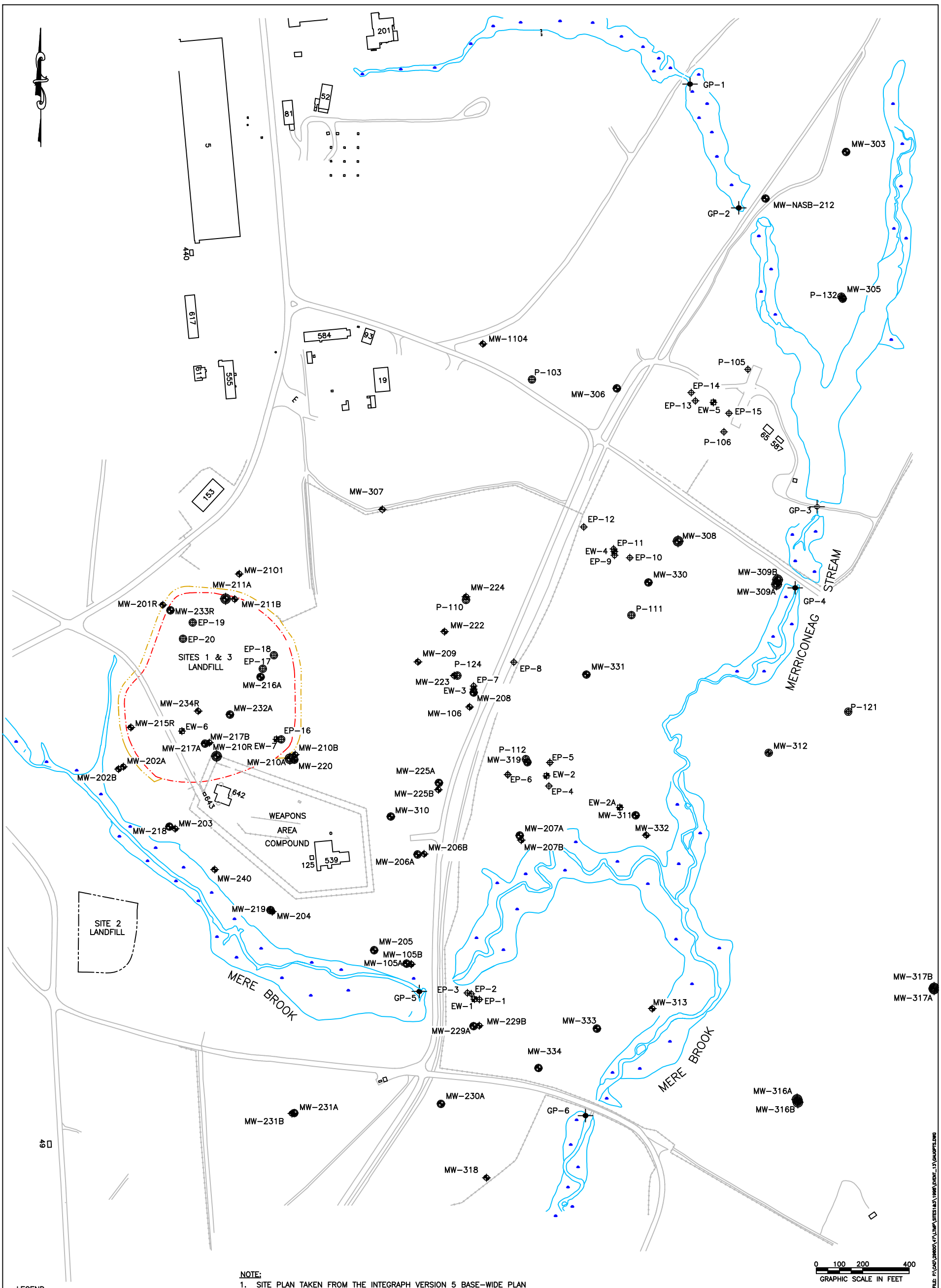
PROJECT NUMBER	29600.47
SCALE	1"=400'
FILE NAME	NETWORK.DWG
DRAWING NUMBER	–
SHEET NUMBER	–



NOTE:

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

LEGEND

MW-211A	BEDROCK MONITORING WELL
MW-231A	DEEP MONITORING WELL
MW-231B	SHALLOW MONITORING WELL
EW-1	EXTRACTION WELL
EP-11	DEEP PIEZOMETER
EP-16	SHALLOW PIEZOMETER
GP-6	SURFACE WATER GAUGING POINT
	FENCE
	APPROXIMATE LIMITS OF SLURRY WALL
	APPROXIMATE LIMITS OF SITES 1 & 3
	APPROXIMATE BOUNDARY OF SITE 2 LANDFILL

SITES 1 & 3 AND EASTERN PLUME

NAVAL AIR STATION, BRUNSWICK, MAINE

FIGURE 3

LONG-TERM MONITORING GAUGING LOCATIONS

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PROJECT NUMBER	29600.47
SCALE	1"=400'
FILE NAME	GAUGPTS.DWG
DRAWING NUMBER	–
SHEET NUMBER	–

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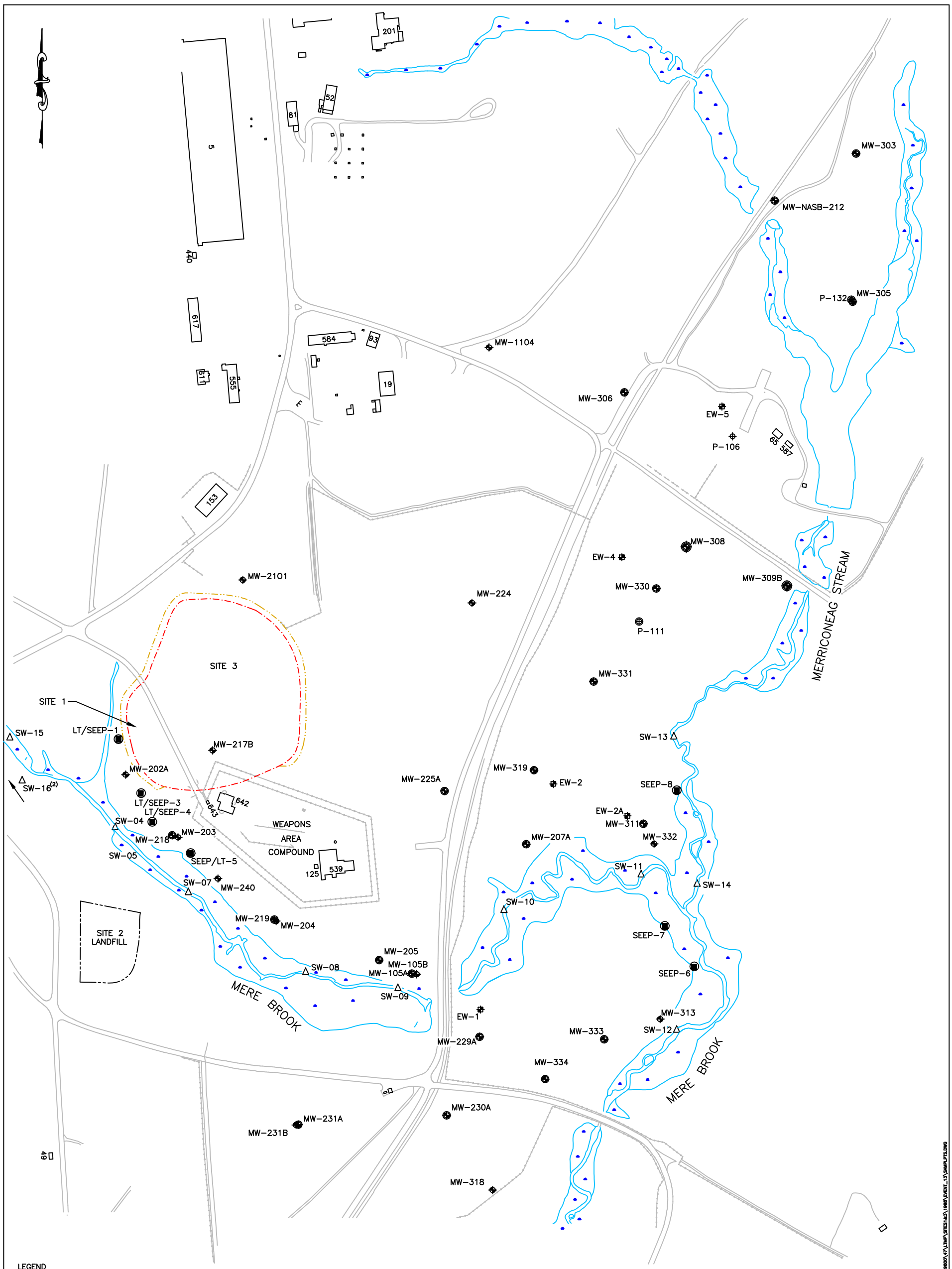

LEGEND

MW-211A	BEDROCK MONITORING WELL
MW-231A	DEEP MONITORING WELL
MW-231B	SHALLOW MONITORING WELL
EW-1	EXTRACTION WELL
P-111	SHALLOW PIEZOMETER
P-106	DEEP PIEZOMETER
LT/SEEP-1	SEEP/LEACHATE LOCATIONS
SW-1	SURFACE WATER
	FENCE
	APPROXIMATE LIMITS OF SLURRY WALL
	APPROXIMATE LIMITS OF SITES 1 & 3
	APPROXIMATE BOUNDARY OF SITE 2 LANDFILL

NOTE:

1. SITE PLAN TAKEN FROM THE INTEGRAPH VERSION 5 BASE-WIDE PLAN PROVIDED BY NAS BRUNSWICK PUBLIC WORKS DEPARTMENT ON 13 OCTOBER 1995.
2. SW-16 LOCATED APPROXIMATELY 1,000 FT UPSTREAM OF SITES 1 AND 3.
3. ONE-TIME SAMPLING OF SEEP-6, 7, AND 8 CONDUCTED DURING MONITORING EVENT 14. APPROXIMATE SAMPLE LOCATIONS SHOWN.

SITES 1 & 3 AND EASTERN PLUME

NAVAL AIR STATION, BRUNSWICK, MAINE

FIGURE 4

LONG-TERM MONITORING SAMPLING POINTS

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PROJECT NUMBER	29600.47
SCALE	1"=400'
FILE NAME	SAMPLPTS.DWG
DRAWING NUMBER	–
SHEET NUMBER	–

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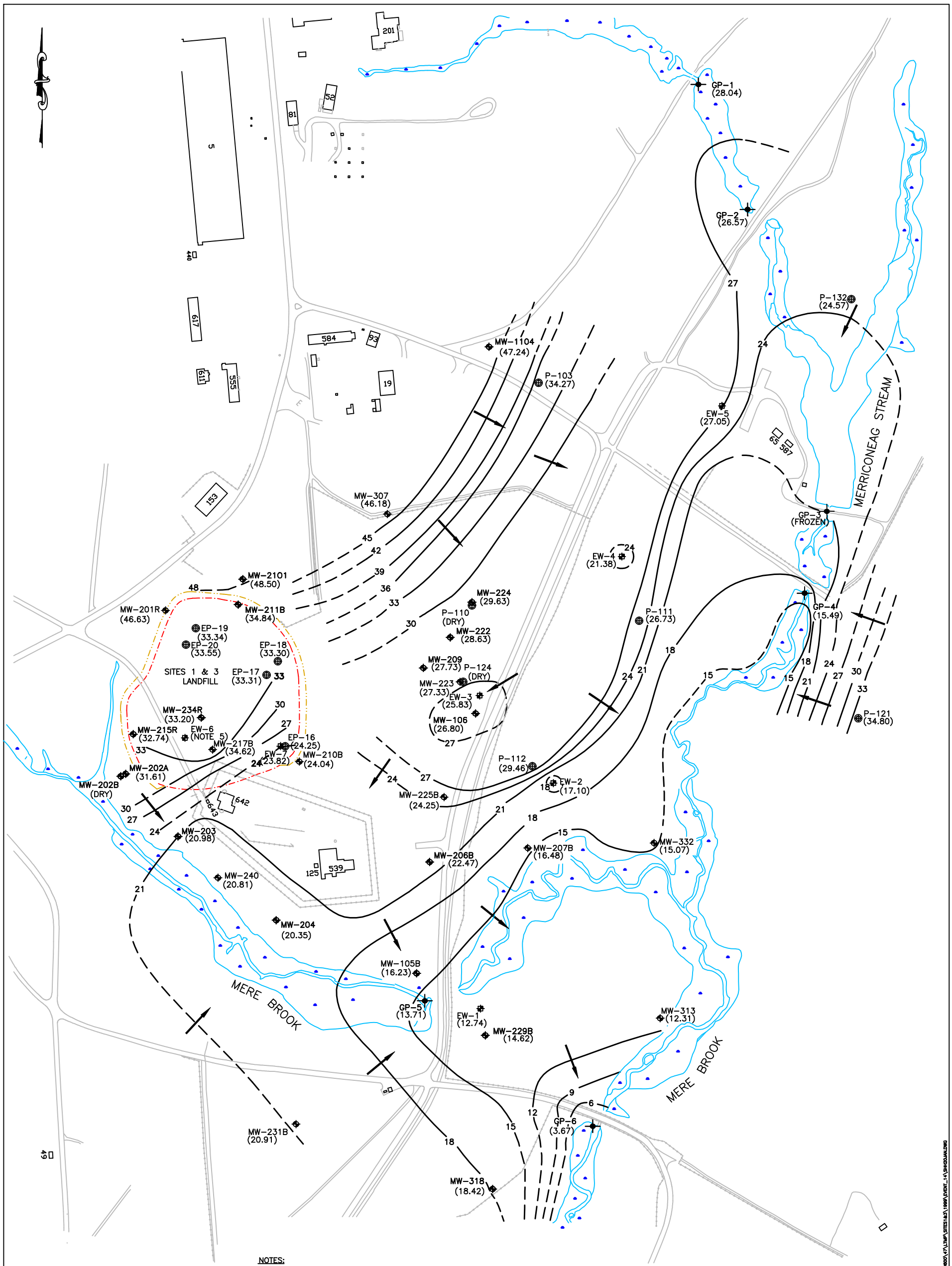

LEGEND

- MW-231B (20.91) SHALLOW MONITORING WELL (POTENTIOMETRIC SURFACE ELEVATION, FT MSL)
- EW-1 (12.74) EXTRACTION WELL (POTENTIOMETRIC SURFACE ELEVATION, FT MSL)
- EP-16 (24.25) SHALLOW PIEZOMETER (POTENTIOMETRIC SURFACE ELEVATION, FT MSL)
- GP-6 (3.67) SURFACE WATER GAUGING POINT (POTENTIOMETRIC SURFACE ELEVATION, FT MSL)
- FENCE
- APPROXIMATE LIMITS OF SLURRY WALL
- APPROXIMATE LIMITS OF SITES 1 & 3
- 27 GROUND-WATER CONTOUR (FT MSL) (DASHED WHERE INFERRED)
- INFERRED GROUND-WATER FLOW DIRECTION

NOTES:

1. WATER LEVEL DATA COLLECTED 5-7 JANUARY 1999. 2.08 IN. OF PRECIPITATION WAS NOTED 1 WEEK BEFORE AND DURING GAUGING PERIOD.
2. EXTRACTION WELLS EW-1, EW-2, EW-2A, EW-4, AND EW-5 WERE IN OPERATION DURING WELL GAUGING ACTIVITY.
3. CONTOUR INTERVAL = 3 FT.
4. SITE PLAN TAKEN FROM THE INTEGRAPH VERSION 5 BASE-WIDE PLAN PROVIDE BY NAS BRUNSWICK PUBLIC WORKS DEPARTMENT ON 13 OCTOBER 1995.
5. EXTRACTION WELL VAULT FLOODED. UNABLE TO OBTAIN WATER LEVEL READING.
6. CONTOURS REPRESENT EVALUATION OF PROBABLE CONDITIONS BASED ON PRESENTLY AVAILABLE DATA. SOME VARIATION FROM THESE CONDITIONS MUST BE EXPECTED.

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SITES 1 & 3 AND EASTERN PLUME

NAVAL AIR STATION, BRUNSWICK, MAINE

FIGURE 5
INTERPRETED SHALLOW GROUND-WATER POTENTIOMETRIC SURFACE CONTOUR MAP, 5-7 JANUARY 1999

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PROJECT MANAGER	CEM

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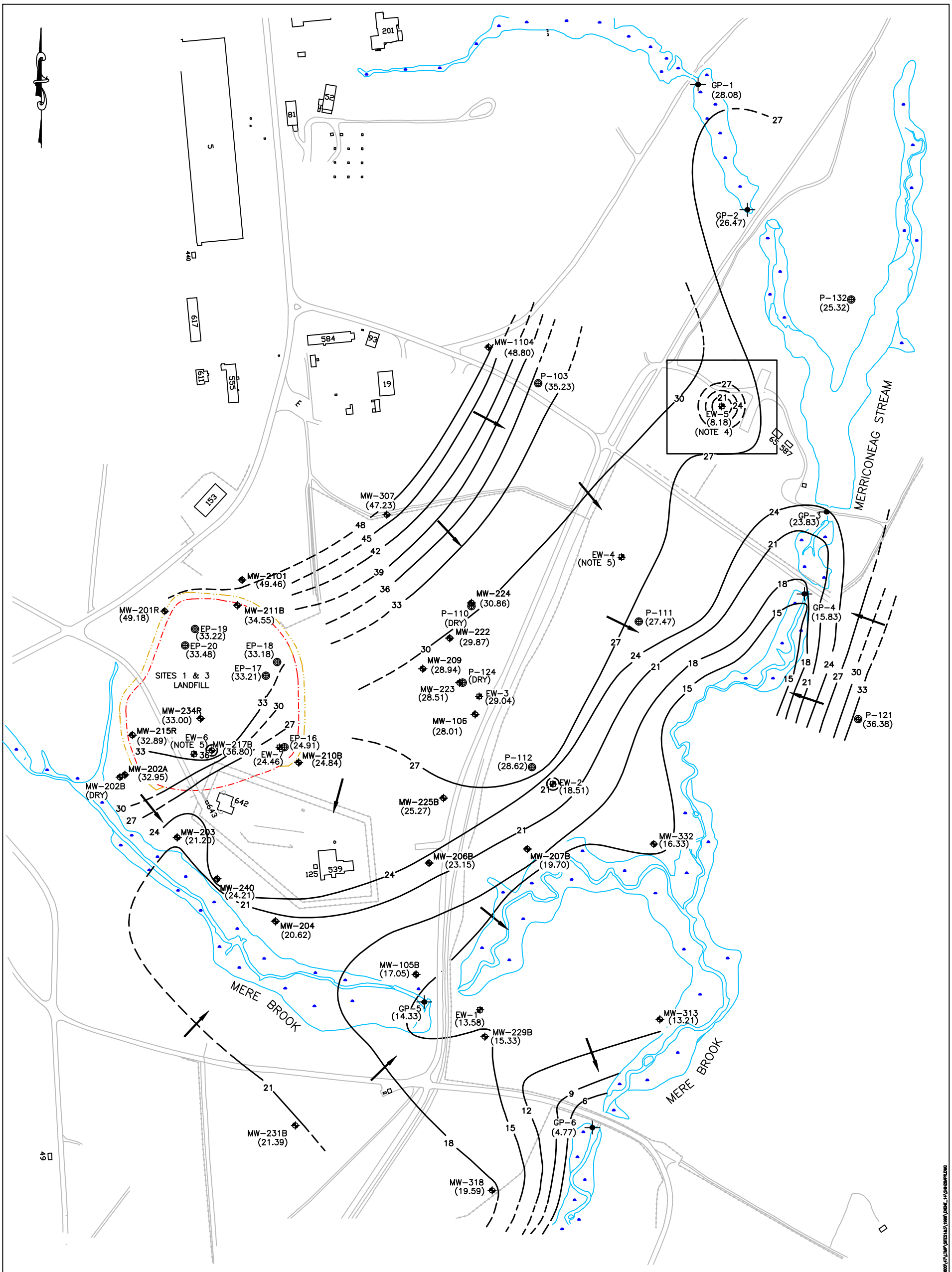
PROJECT NUMBER	29600.47
SCALE	1"=400'
FILE NAME	SHH20JAN.DWG
DRAWING NUMBER	–
SHEET NUMBER	–



LEGEND

- MW-231B (21.39) SHALLOW MONITORING WELL (POTENTIOMETRIC SURFACE ELEVATION, FT MSL)
- EW-1 (13.58) EXTRACTION WELL (POTENTIOMETRIC SURFACE ELEVATION, FT MSL)
- EP-16 (24.91) SHALLOW PIEZOMETER (POTENTIOMETRIC SURFACE ELEVATION, FT MSL)
- GP-5 (14.33) SHALLOW PIEZOMETER (SURFACE WATER ELEVATION, FT MSL)
- FENCE
- APPROXIMATE LIMITS OF SLURRY WALL
- APPROXIMATE LIMITS OF SITES 1 & 3
- 27 GROUND-WATER CONTOUR (FT MSL) (DASHED WHERE INFERRED)
- INFERRED GROUND-WATER FLOW DIRECTION
- BOXED AREAS ARE DETAILED ON FIGURE 7

NOTE:

1. WATER LEVEL DATA COLLECTED 1-2 APRIL 1999. 1.37 IN. OF PRECIPITATION WAS NOTED 1 WEEK BEFORE AND DURING GAUGING PERIOD.
2. EXTRACTION WELLS EW-1, EW-2, EW-2A, EW-4, AND EW-5 WERE IN OPERATION DURING WELL GAUGING ACTIVITY.
3. CONTOUR INTERVAL = 3 FT.
4. THE CONTOURS FOR 18, 15, 12, AND 9 FT ENCOMPASS EW-5 ALTHOUGH THEY COULD NOT BE DISPLAYED DUE TO MAP SCALE (SEE FIGURE 7, DETAIL A).
5. EXTRACTION WELL VAULT FLOODED. UNABLE TO OBTAIN WATER LEVEL READING.
6. SITE PLAN TAKEN FROM THE INTEGRAPH VERSION 5 BASE-WIDE PLAN PROVIDED BY NAS BRUNSWICK PUBLIC WORKS DEPARTMENT ON 13 OCTOBER 1995.
7. CONTOURS REPRESENT EVALUATION OF PROBABLE CONDITIONS BASED ON PRESENTLY AVAILABLE DATA. SOME VARIATION FROM THESE CONDITIONS MUST BE EXPECTED.

SITES 1 & 3 AND EASTERN PLUME

NAVAL AIR STATION, BRUNSWICK, MAINE

FIGURE 6

INTERPRETED SHALLOW GROUND-WATER POTENTIOMETRIC SURFACE CONTOUR MAP, 1-2 APRIL 1999

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PROJECT MANAGER	CEM

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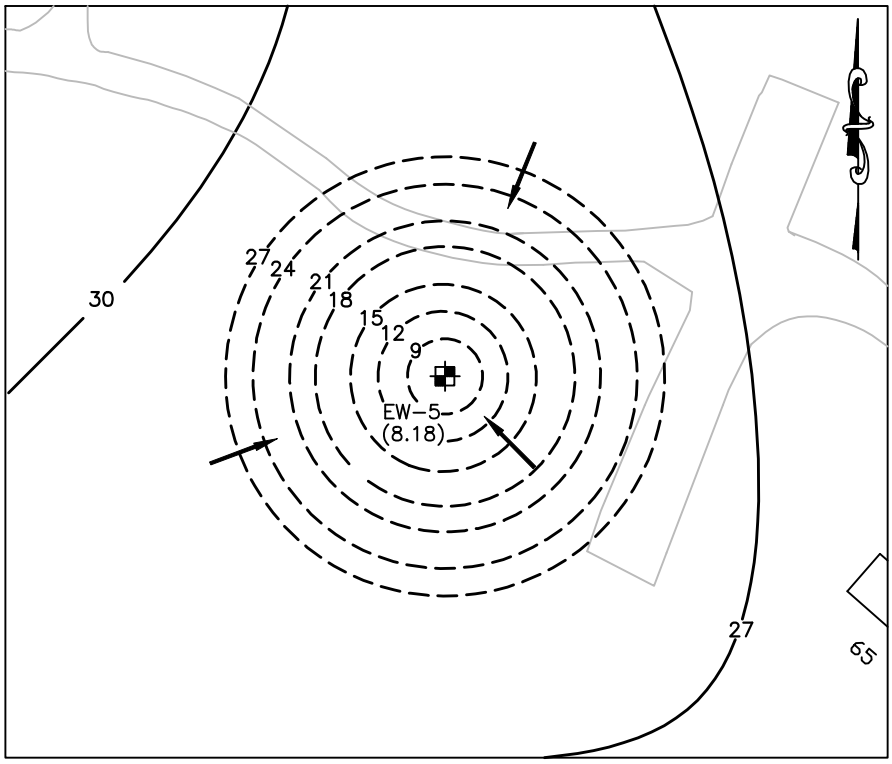
PROJECT NUMBER	29600.47
SCALE	1"=400'
FILE NAME	SHH20APR.DWG
DRAWING NUMBER	–
SHEET NUMBER	–



DETAIL A

0 50 100
GRAPHIC SCALE IN FEET

LEGEND

EW-5 (8.18) EXTRACTION WELL (POTENTIOMETRIC SURFACE ELEVATION, FT MSL)

27 GROUND-WATER CONTOUR (FT MSL) (DASHED WHERE INFERRED)

INFERRED GROUND-WATER FLOW DIRECTION

NOTES:

1. CONTOURS REPRESENT EVALUATION OF PROBABLE CONDITIONS BASED ON PRESENTLY AVAILABLE DATA. SOME VARIATION FROM THESE CONDITIONS MUST BE EXPECTED.
2. INFERRED CONE OF DEPRESSION SHOWN WHERE MINIMAL DATA IS PRESENT. CONE OF DEPRESSION MAY BE SMALLER THAN INFERRED SIZE.

SITES 1 & 3 AND EASTERN PLUME

NAVAL AIR STATION, BRUNSWICK, MAINE

FIGURE 7
EXTRACTION WELL DETAIL MAP, 1-2 APRIL 1999
SHALLOW POTENTIOMETRIC SURFACE

DATE	13 MAY 1999
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PROJECT MANAGER	PLN

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PROJECT NUMBER	29600.47
SCALE	AS SHOWN
FILE NAME	SHEXAPR.DWG
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SHEET NUMBER	–

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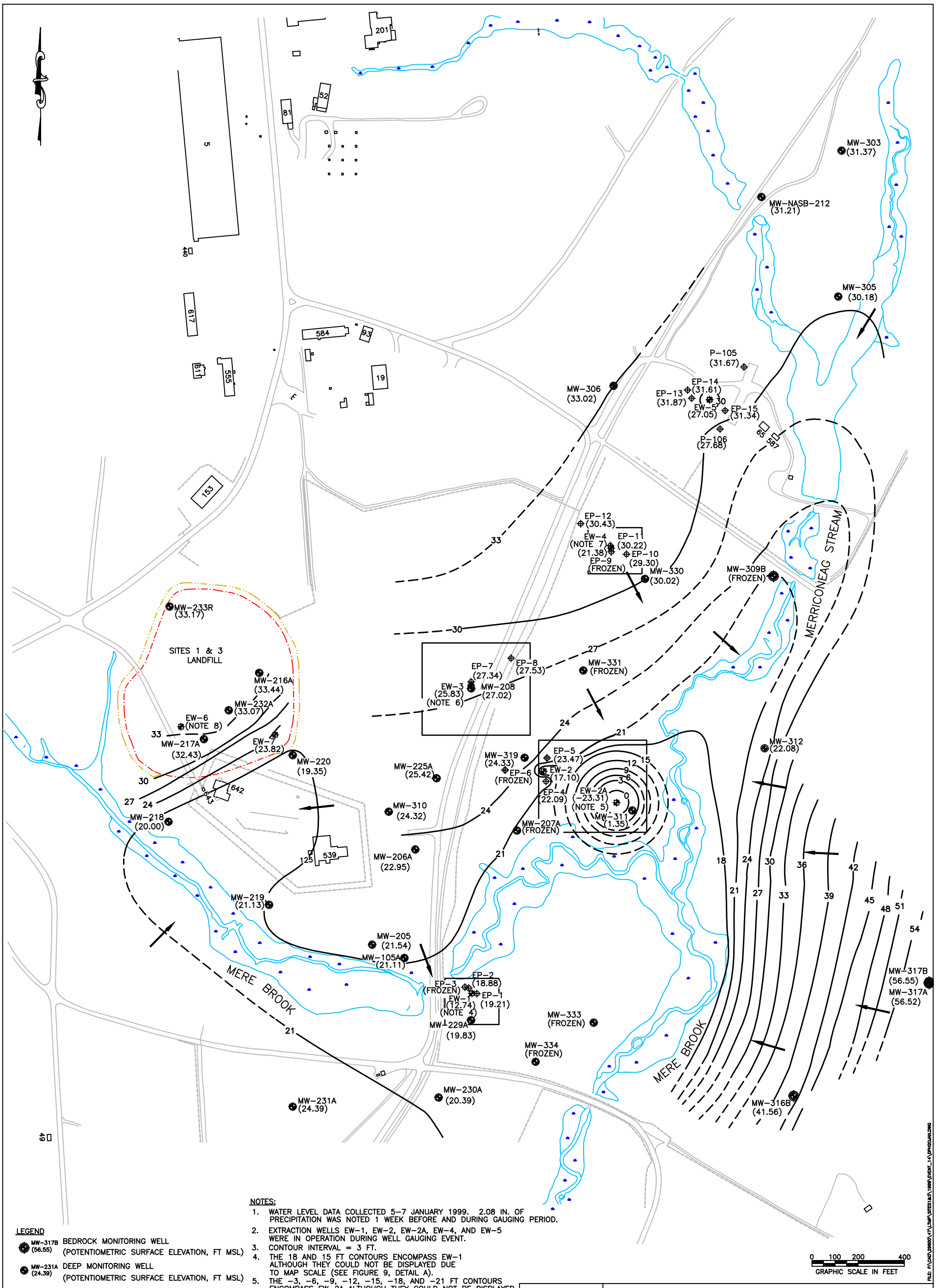

LEGEND

- MW-317B (56.55) BEDROCK MONITORING WELL (POTENTIOMETRIC SURFACE ELEVATION, FT MSL)
- MW-231A (24.39) DEEP MONITORING WELL (POTENTIOMETRIC SURFACE ELEVATION, FT MSL)
- EW-1 (12.74) EXTRACTION WELL (POTENTIOMETRIC SURFACE ELEVATION, FT MSL)
- EP-11 (30.22) DEEP PIEZOMETER (POTENTIOMETRIC SURFACE ELEVATION, FT MSL)
- FENCE
- APPROXIMATE LIMITS OF SLURRY WALL
- APPROXIMATE LIMITS OF SITES 1 & 3
- 27 GROUND-WATER CONTOUR (FT MSL) (DASHED WHERE INFERRED)
- INFERRED GROUND-WATER FLOW DIRECTION
- BOXED AREA IS DETAILED ON FIGURE 9

NOTES:

1. WATER LEVEL DATA COLLECTED 5-7 JANUARY 1999. 2.08 IN. OF PRECIPITATION WAS NOTED 1 WEEK BEFORE AND DURING GAUGING PERIOD.
2. EXTRACTION WELLS EW-1, EW-2, EW-2A, EW-4, AND EW-5 WERE IN OPERATION DURING WELL GAUGING EVENT.
3. CONTOUR INTERVAL = 3 FT.
4. THE 18 AND 15 FT CONTOURS ENCOMPASS EW-1 ALTHOUGH THEY COULD NOT BE DISPLAYED DUE TO MAP SCALE (SEE FIGURE 9, DETAIL A).
5. THE -3, -6, -9, -12, -15, -18, AND -21 FT CONTOURS ENCOMPASS EW-2A ALTHOUGH THEY COULD NOT BE DISPLAYED DUE TO MAP SCALE (SEE FIGURE 9, DETAIL B)
6. THE 27 FT CONTOUR ENCOMPASSES EW-3 ALTHOUGH IT COULD NOT BE DISPLAYED DUE TO MAP SCALE (SEE FIGURE 9, DETAIL C).
7. THE 30, 27, AND 24 FT CONTOURS ENCOMPASS EW-4 ALTHOUGH THEY COULD NOT BE DISPLAYED DUE TO MAP SCALE (SEE FIGURE 9, DETAIL D).
8. EXTRACTION WELL VAULT FLOODED. UNABLE TO OBTAIN WATER LEVEL READING.
9. SITE PLAN TAKEN FROM THE INTEGRAPH VERSION 5 BASE-WIDE PLAN PROVIDED BY NAS BRUNSWICK PUBLIC WORKS DEPARTMENT ON 13 OCTOBER 1995.
10. CONTOURS REPRESENT EVALUATION OF PROBABLE CONDITIONS BASED ON PRESENTLY AVAILABLE DATA. SOME VARIATION FROM THESE CONDITIONS MUST BE EXPECTED.

SITES 1 & 3 AND EASTERN PLUME

NAVAL AIR STATION, BRUNSWICK, MAINE

FIGURE 8

INTERPRETED DEEP GROUND-WATER POTENTIOMETRIC SURFACE CONTOUR MAP, 5-7 JANUARY 1999

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DESIGNED BY	PLN
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PROJECT MANAGER	PLN

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PROJECT NUMBER	29600.47
SCALE	1"=400'
FILE NAME	DPH20JAN.DWG
DRAWING NUMBER	–
SHEET NUMBER	–

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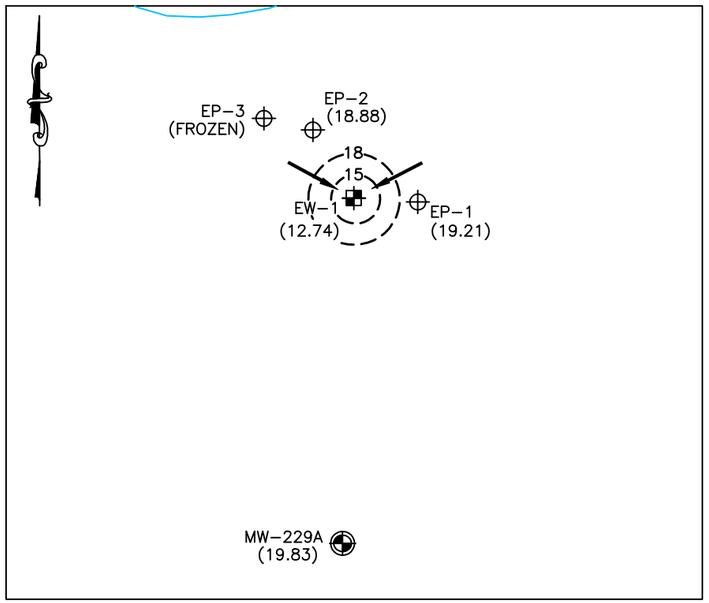
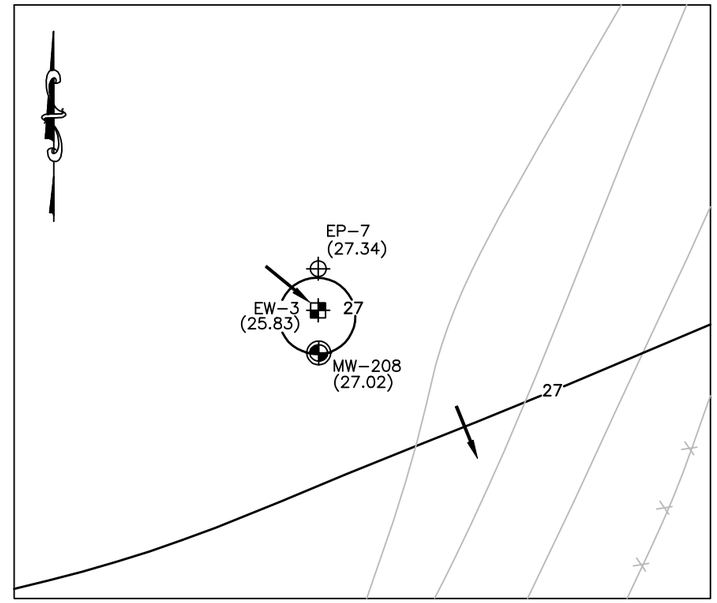


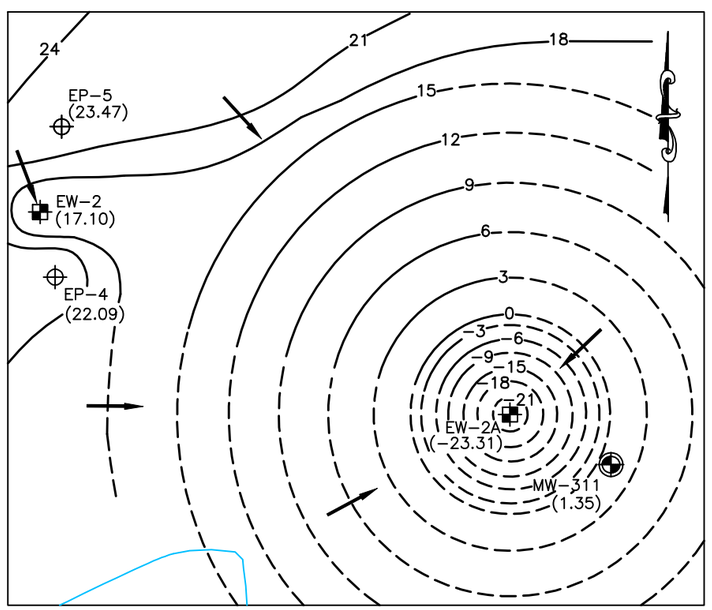
DETAIL A

0 25 50
GRAPHIC SCALE IN FEET



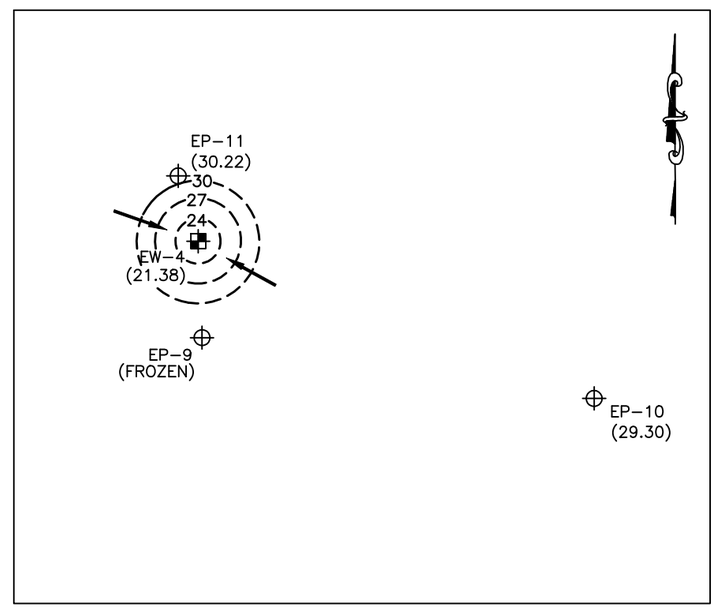
DETAIL C

0 25 50
GRAPHIC SCALE IN FEET



DETAIL B

0 25 50 100
GRAPHIC SCALE IN FEET



DETAIL D

0 10 20
GRAPHIC SCALE IN FEET

LEGEND

MW-229A (19.83)	DEEP MONITORING WELL (POTENTIOMETRIC SURFACE ELEVATION, FT MSL)
EW-1 (12.74)	EXTRACTION WELL (POTENTIOMETRIC SURFACE ELEVATION, FT MSL)
EP-1 (19.21)	PIEZOMETER (WATER TABLE ELEVATION, FT MSL)
—27— –	GROUND-WATER CONTOUR (FT MSL) (DASHED WHERE INFERRED)
→	INFERRED GROUND-WATER FLOW DIRECTION

NOTES:

1. CONTOURS REPRESENT EVALUATION OF PROBABLE CONDITIONS BASED ON PRESENTLY AVAILABLE DATA. SOME VARIATION FROM THESE CONDITIONS MUST BE EXPECTED.
2. INFERRED CONE OF DEPRESSION SHOWN WHERE MINIMAL DATA IS PRESENT. CONE OF DEPRESSION MAY BE SMALLER THAN INFERRED SIZE.

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SITES 1 & 3 AND EASTERN PLUME

NAVAL AIR STATION, BRUNSWICK, MAINE

FIGURE 9
EXTRACTION WELL DETAIL MAP, 5-7 JANUARY 1999
DEEP POTENTIOMETRIC SURFACE

DATE	14 MAY 1999
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PROJECT MANAGER	CEM

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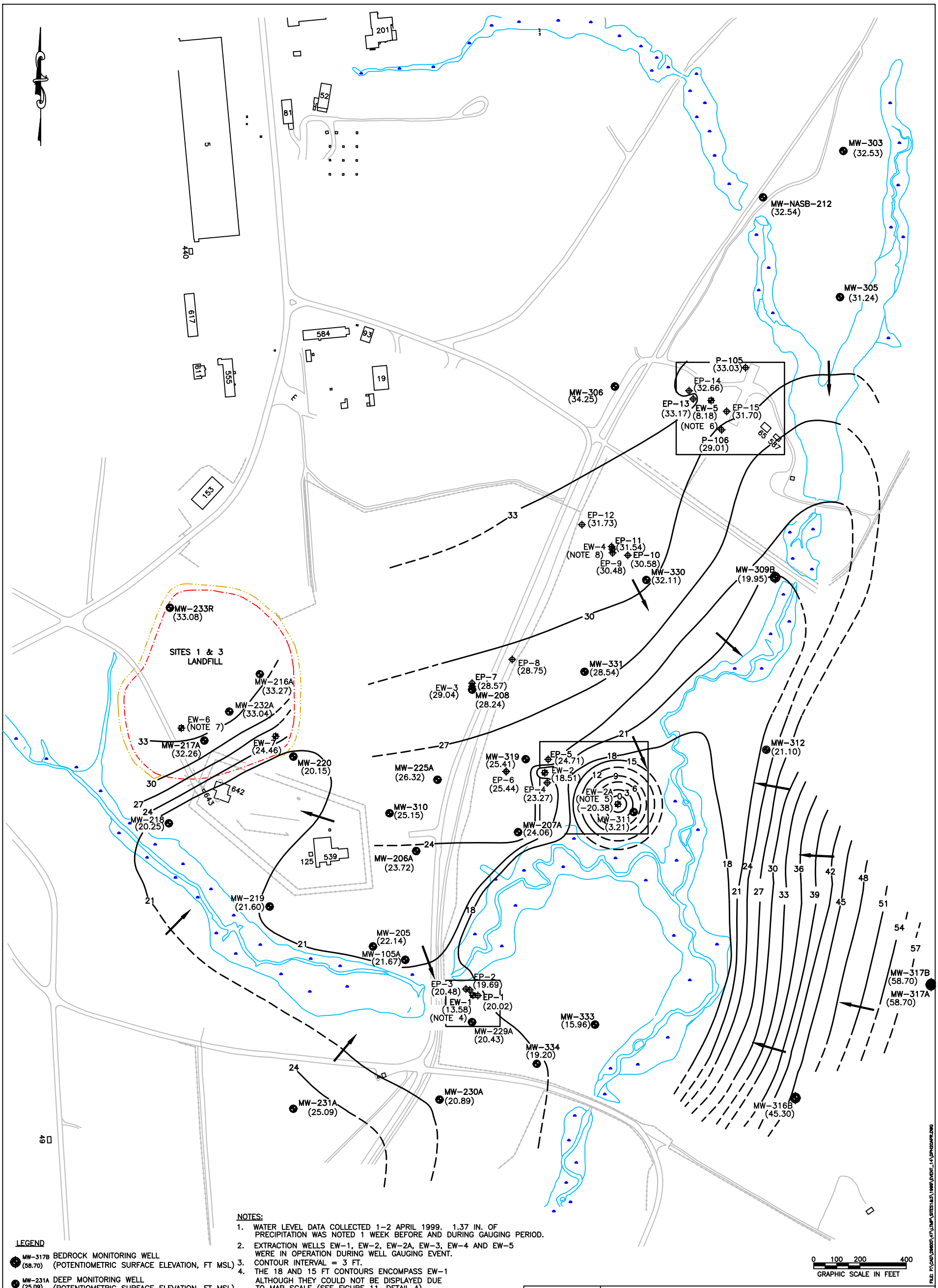
PROJECT NUMBER	29600.47
SCALE	AS SHOWN
FILE NAME	DPEXJAN.DWG
DRAWING NUMBER	–
SHEET NUMBER	–



NOTES:

1. WATER LEVEL DATA COLLECTED 1–2 APRIL 1999. 1.37 IN. OF PRECIPITATION WAS NOTED 1 WEEK BEFORE AND DURING GAUGING PERIOD.
2. EXTRACTION WELLS EW–1, EW–2, EW–2A, EW–3, EW–4 AND EW–5 WERE IN OPERATION DURING WELL GAUGING EVENT.
3. CONTOUR INTERVAL = 3 FT.
4. THE 18 AND 15 FT CONTOURS ENCOMPASS EW–1 ALTHOUGH THEY COULD NOT BE DISPLAYED DUE TO MAP SCALE (SEE FIGURE 11, DETAIL A).
5. THE –3, –6, –9, –12, –15, AND –18 FT CONTOURS ENCOMPASS EW–2A ALTHOUGH THEY COULD NOT BE DISPLAYED DUE TO MAP SCALE (SEE FIGURE 11, DETAIL B).
6. THE 30, 27, 24, 21, 18, 15, 12, AND 9 FT CONTOURS ENCOMPASS ENCOMPASS EW–5 ALTHOUGH THEY COULD NOT BE DISPLAYED DUE TO MAP SCALE (SEE FIGURE 11, DETAIL C).
7. EXTRACTION WELL VAULT FLOODED. UNABLE TO OBTAIN WATER LEVEL READING.
8. SITE PLAN TAKEN FROM THE INTEGRAPH VERSION 5 BASE–WIDE PLAN PROVIDED BY NAS BRUNSWICK PUBLIC WORKS DEPARTMENT ON 13 OCTOBER 1995.
9. CONTOURS REPRESENT EVALUATION OF PROBABLE CONDITIONS BASED ON PRESENTLY AVAILABLE DATA. SOME VARIATION FROM THESE CONDITIONS MUST BE EXPECTED.

LEGEND

- MW–317B (58.70) BEDROCK MONITORING WELL (POTENTIOMETRIC SURFACE ELEVATION, FT MSL)
- MW–231A (25.09) DEEP MONITORING WELL (POTENTIOMETRIC SURFACE ELEVATION, FT MSL)
- EW–1 (13.58) EXTRACTION WELL (POTENTIOMETRIC SURFACE ELEVATION, FT MSL)
- EP–11 (31.54) DEEP PIEZOMETER (POTENTIOMETRIC SURFACE ELEVATION, FT MSL)
- FENCE
- APPROXIMATE LIMITS OF SLURRY WALL
- APPROXIMATE LIMITS OF SITES 1 & 3
- 27 GROUND–WATER CONTOUR (FT MSL) (DASHED WHERE INFERRED)
- INFERRED GROUND–WATER FLOW DIRECTION
- BOXED AREA IS DETAILED ON FIGURE 11

SITES 1 & 3 AND EASTERN PLUME

NAVAL AIR STATION, BRUNSWICK, MAINE

FIGURE 10

INTERPRETED DEEP GROUND–WATER POTENTIOMETRIC SURFACE CONTOUR MAP, 1–2 APRIL 1999

DATE	11 MAY 1999
DESIGNED BY	PLN
DRAWN BY	SAP
CHECKED BY	PLN
PROJECT MANAGER	CEM
PROJECT NUMBER	29600.47
SCALE	1"=400'
FILE NAME	DPH2OAPR.DWG
DRAWING NUMBER	–
SHEET NUMBER	–

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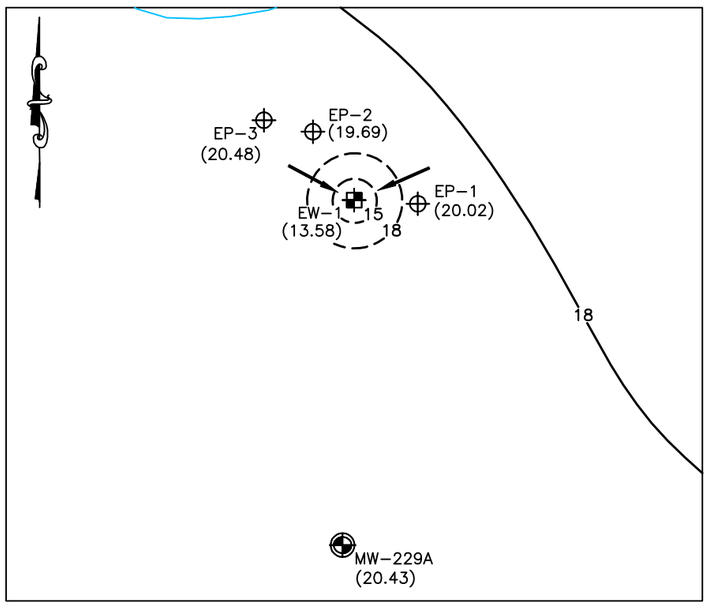
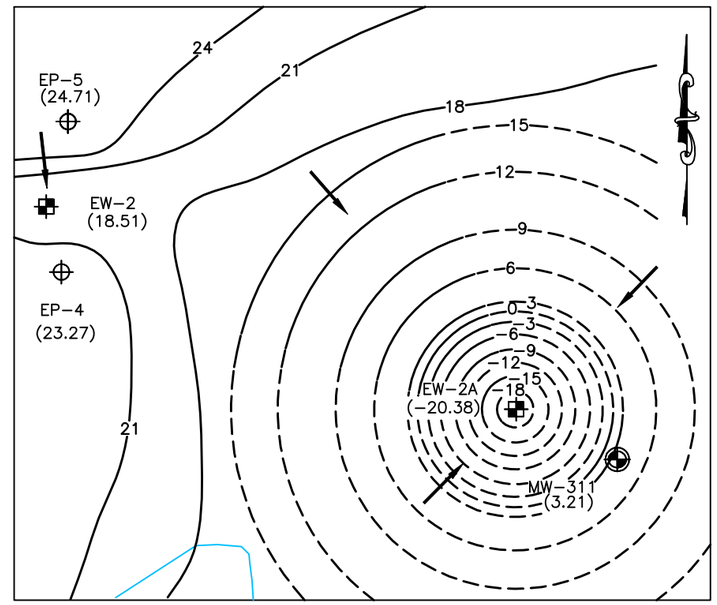


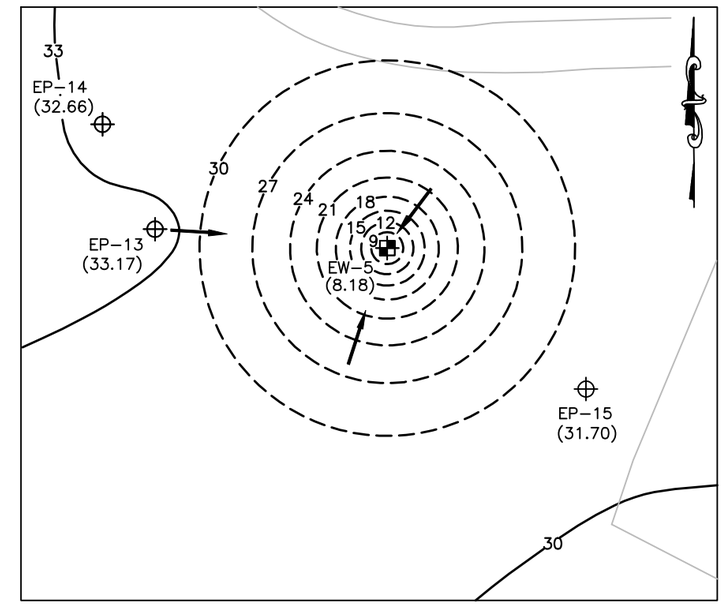
DETAIL A

0 25 50
GRAPHIC SCALE IN FEET



DETAIL B

0 25 50 100
GRAPHIC SCALE IN FEET



DETAIL C

0 25 50
GRAPHIC SCALE IN FEET

FILE: F:\CAD\29600\CTL\TMP\SITES1&3\1999\EXCAV_1-1\DPEXAPR.DWG

LEGEND

- MW-229A (20.43) — DEEP MONITORING WELL (POTENTIOMETRIC SURFACE ELEVATION, FT MSL)
- EW-1 (13.58) — EXTRACTION WELL (POTENTIOMETRIC SURFACE ELEVATION, FT MSL)
- EP-1 (20.02) — PIEZOMETER (WATER TABLE ELEVATION, FT MSL)
- 24 — GROUND-WATER CONTOUR (FT MSL) (DASHED WHERE INFERRED)
- INFERRED GROUND-WATER FLOW DIRECTION

NOTES:

1. CONTOURS REPRESENT EVALUATION OF PROBABLE CONDITIONS BASED ON PRESENTLY AVAILABLE DATA. SOME VARIATION FROM THESE CONDITIONS MUST BE EXPECTED.
2. INFERRED CONE OF DEPRESSION SHOWN WHERE MINIMAL DATA IS PRESENT. CONE OF DEPRESSION MAY BE SMALLER THAN INFERRED SIZE.

SITES 1 & 3 AND EASTERN PLUME

NAVAL AIR STATION, BRUNSWICK, MAINE

FIGURE 11
EXTRACTION WELL DETAIL MAP, 1-2 APRIL 1999
DEEP POTENTIOMETRIC SURFACE

DATE 17 MAY 1999	EA ENGINEERING, SCIENCE, AND TECHNOLOGY	PROJECT NUMBER 29600.47
DESIGNED BY PLN		SCALE AS SHOWN
DRAWN BY SAP		FILE NAME DPEXAPR.DWG
CHECKED BY PLN		DRAWING NUMBER –
PROJECT MANAGER CEM		SHEET NUMBER –

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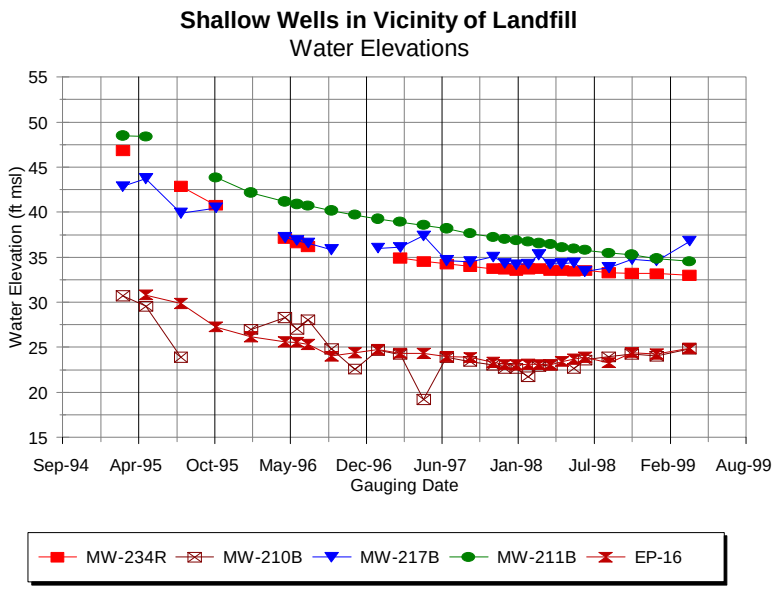


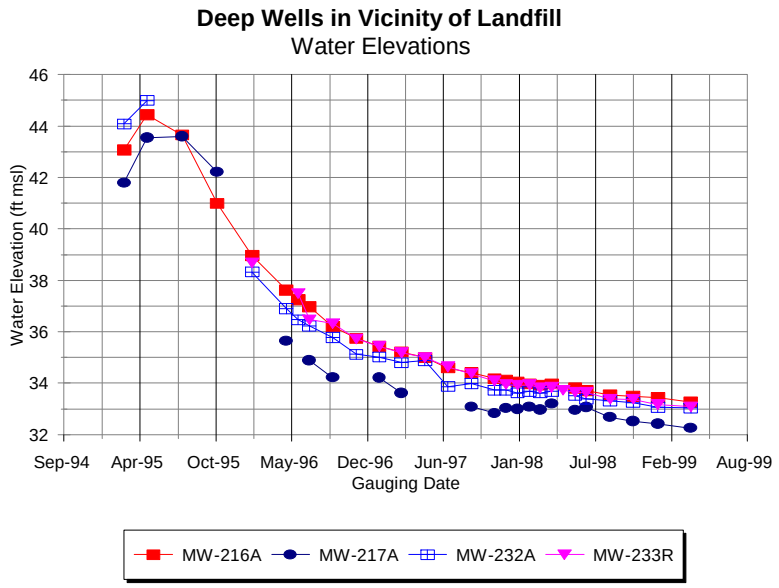
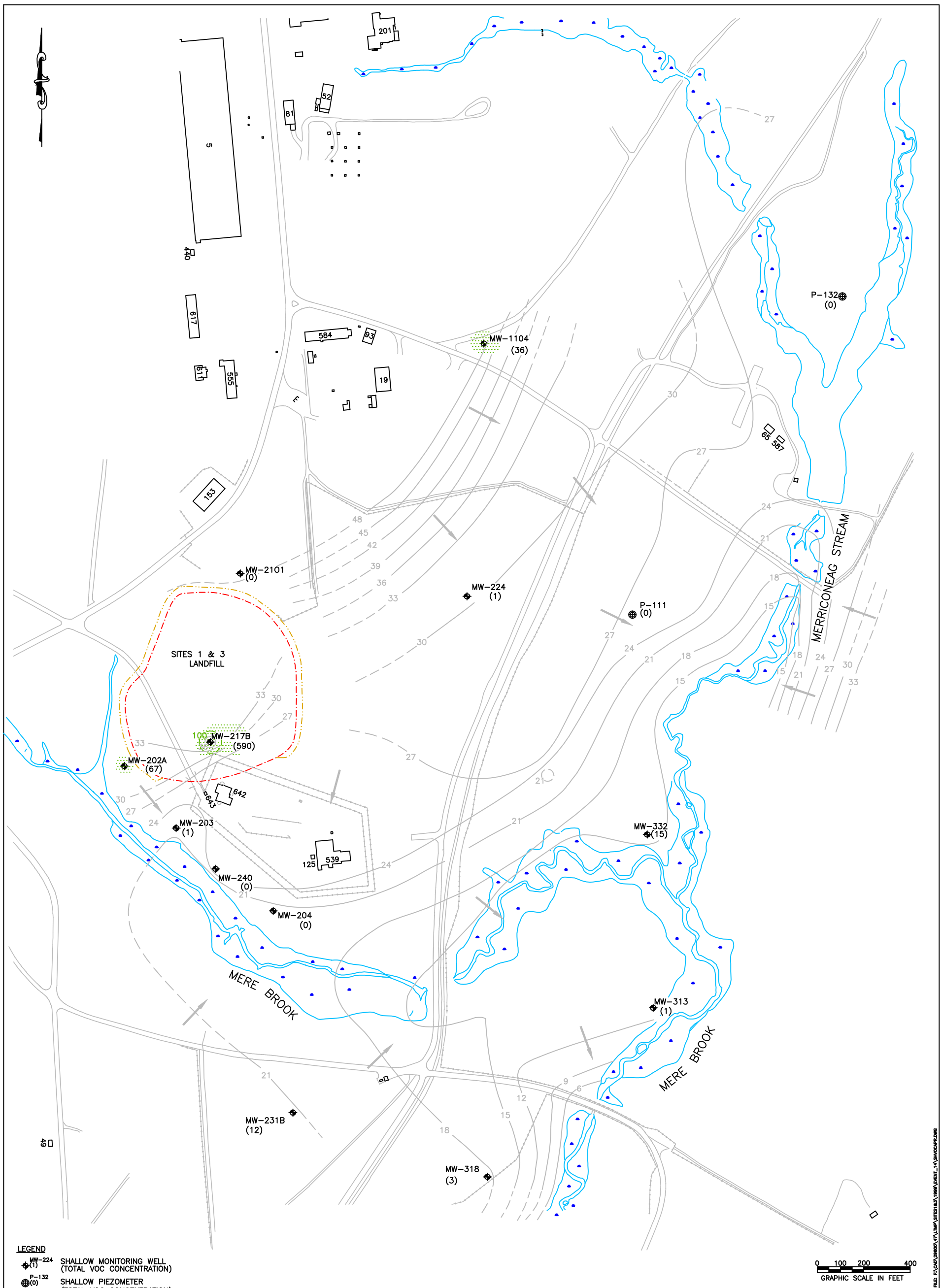


Figure 12: Water elevations within Sites 1 and 3 Landfill, shallow and deep wells.



FILE: F:\CAD\29600\47\LTMP\SITES1&3\1999\EVENT_14\SHVOCAPR.DWG

LEGEND

- MW-224 (1) — SHALLOW MONITORING WELL (TOTAL VOC CONCENTRATION)
- P-132 (0) — SHALLOW PIEZOMETER (TOTAL VOC CONCENTRATION)
- INFERRED AREA ABOVE STATE MEG/FEDERAL MCL CONCENTRATION
- 100 — 100 ug/L TOTAL VOC CONTOUR (DASHED WHERE INFERRED)
- FENCE
- APPROXIMATE LIMITS OF SLURRY WALL
- APPROXIMATE LIMITS OF SITES 1 & 3
- 27 — GROUND-WATER CONTOUR (FT MSL) FOR 1-2 APRIL 1999 FROM FIGURE 6 (DASHED WHERE INFERRED)
- INFERRED GROUND-WATER FLOW DIRECTION

NOTE:

1. SITE PLAN TAKEN FROM THE INTEGRAPH VERSION 5 BASE-WIDE PLAN PROVIDED BY NAS BRUNSWICK PUBLIC WORKS DEPARTMENT ON 13 OCTOBER 1995.
2. CONTOURS REPRESENT EVALUATION OF PROBABLE CONDITIONS BASED ON PRESENTLY AVAILABLE DATA. SOME VARIATION FROM THESE CONDITIONS MUST BE EXPECTED.

SITES 1 & 3 AND EASTERN PLUME

NAVAL AIR STATION, BRUNSWICK, MAINE

FIGURE 13

INTERPRETED TOTAL VOLATILE ORGANIC COMPOUND CONCENTRATION CONTOUR MAP SHALLOW WELLS, MONITORING EVENT 14

DATE	7 JUNE 1999
DESIGNED BY	PLN
DRAWN BY	SAP
CHECKED BY	PLN
PROJECT MANAGER	CEM

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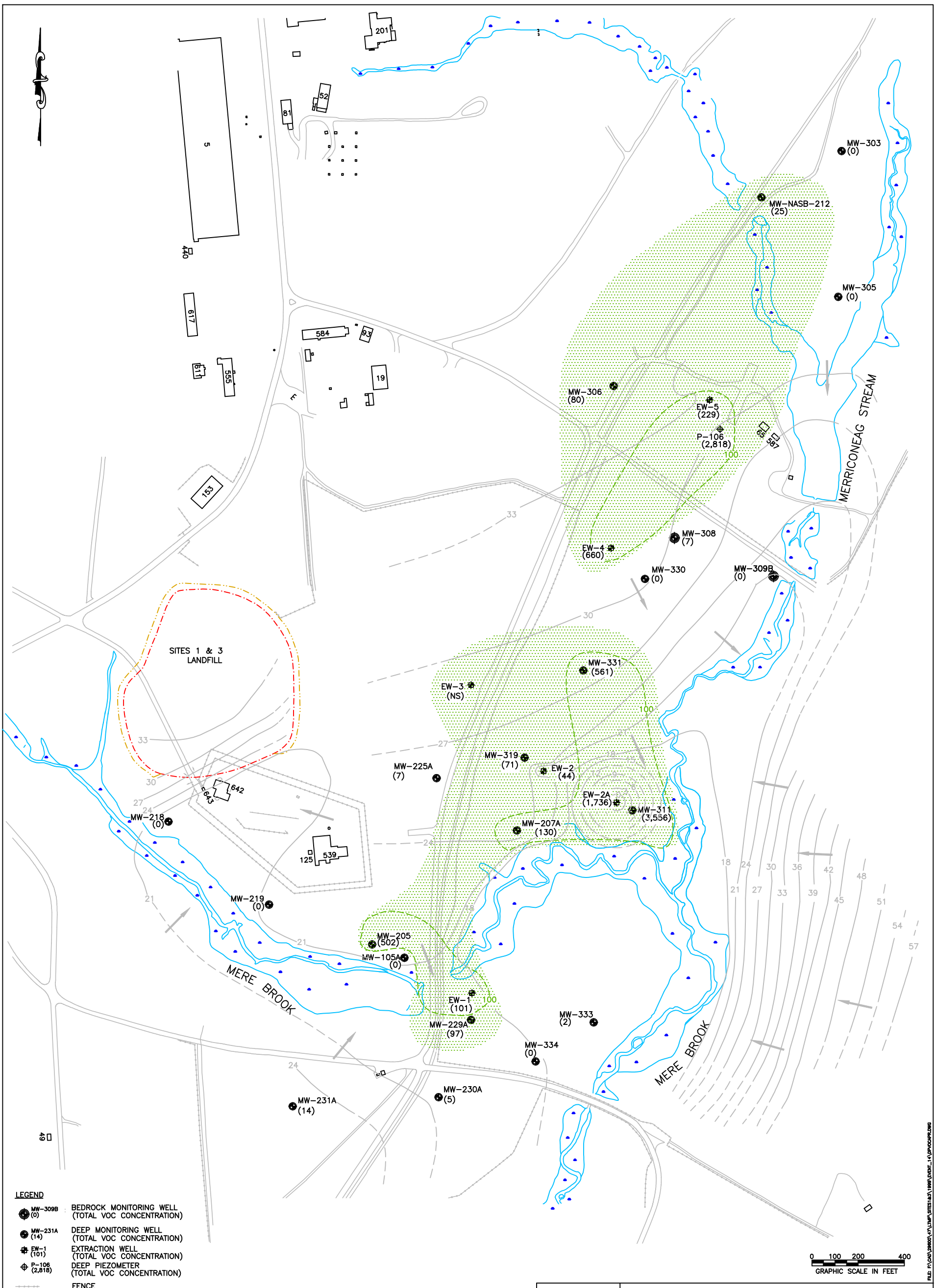
PROJECT NUMBER	29600.47
SCALE	1"=400'
FILE NAME	SHVOCAPR.DWG
DRAWING NUMBER	–
SHEET NUMBER	–



LEGEND

- MW-309B (0) — BEDROCK MONITORING WELL (TOTAL VOC CONCENTRATION)
- MW-231A (14) — DEEP MONITORING WELL (TOTAL VOC CONCENTRATION)
- EW-1 (101) — EXTRACTION WELL (TOTAL VOC CONCENTRATION)
- P-106 (2,818) — DEEP PIEZOMETER (TOTAL VOC CONCENTRATION)
- FENCE
- APPROXIMATE LIMITS OF SLURRY WALL
- APPROXIMATE LIMITS OF SITES 1 & 3
- INFERRED AREA ABOVE STATE MEG/FEDERAL MCL CONCENTRATION
- 100 — 100 ug/L TOTAL VOC CONTOUR (DASHED WHERE INFERRED)
- NS — NOT SAMPLED
- 27 — GROUND-WATER CONTOUR (FT MSL) FOR 1-2 APRIL 1999 FROM FIGURE 10 (DASHED WHERE INFERRED)
- INFERRED GROUND-WATER FLOW DIRECTION

NOTE:

1. SITE PLAN TAKEN FROM THE INTEGRAPH VERSION 5 BASE-WIDE PLAN PROVIDED BY NAS BRUNSWICK PUBLIC WORKS DEPARTMENT ON 13 OCTOBER 1995.
2. CONTOURS REPRESENT EVALUATION OF PROBABLE CONDITIONS BASED ON PRESENTLY AVAILABLE DATA. SOME VARIATION FROM THESE CONDITIONS MUST BE EXPECTED.

SITES 1 & 3 AND EASTERN PLUME

NAVAL AIR STATION, BRUNSWICK, MAINE

FIGURE 14
INTERPRETED TOTAL VOLATILE ORGANIC COMPOUND CONCENTRATION CONTOUR MAP
DEEP WELLS, MONITORING EVENT 14

DATE	9 JUNE 1999
DESIGNED BY	PLN
DRAWN BY	SAP
CHECKED BY	PLN
PROJECT MANAGER	CEM

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PROJECT NUMBER	29600.47
SCALE	1"=400'
FILE NAME	dpvocapr.DWG
DRAWING NUMBER	–
SHEET NUMBER	–

FILE: F:\CAD\29600\47\LTMP\SITES1&3\1999\EVENT_14\DPVOCAPR.DWG

TABLE 1 SUMMARY OF LONG-TERM MONITORING PROGRAM AT SITES 1 AND 3

Sample Type/Location	Monitoring Frequency	Slurry Wall	Sample Parameters			Monitoring Event 14	
			TCL VOC	TAL Elements	Field Parameters[a]	Gauged	Sampled
Shallow Monitoring Wells							
MW-201R	Bi-Annual	Outside	NR	NR	NR	X	NR
MW-202A	Bi-Annual	Outside	X	X	X	X	X
MW-202B	Bi-Annual	Outside	NR	NR	NR	X	NR
MW-203	Bi-Annual	Outside	X	X	X	X	X
MW-204	Bi-Annual	Outside	X	X	X	X	X
MW-210B	Bi-Annual	Outside	NR	NR	NR	X	NR
MW-211B	Bi-Annual	Inside	NR	NR	NR	X	NR
MW-215R	Bi-Annual	Inside	NR	NR	NR	X	NR
MW-217B	Bi-Annual	Inside	X	X	X	X	X
MW-234R	Bi-Annual	Inside	NR	NR	NR	X	NR
MW-240	Bi-Annual	Outside	X	X	X	X	X
MW-2101	Bi-Annual	Outside	X	X	X	X	X
Deep Monitoring Wells							
MW-216A	Bi-Annual	Inside	NR	NR	NR	X	NR
MW-217A	Bi-Annual	Inside	NR	NR	NR	X	NR
MW-218	Bi-Annual	Outside	X	X	X	X	X
MW-219	Bi-Annual	Outside	X	X	X	X	X
MW-220	Bi-Annual	Outside	NR	NR	NR	X	NR
MW-232A	Bi-Annual	Inside	NR	NR	NR	X	NR
MW-233R	Bi-Annual	Inside	NR	NR	NR	X	NR
Bedrock Wells							
MW-210A	Bi-Annual	Outside	NR	NR	NR	X	NR
MW-210R	Bi-Annual	Inside	NR	NR	NR	X	NR
MW-211A	Bi-Annual	Inside	NR	NR	NR	X	NR
Extraction Wells							
EW-6	Bi-Annual	Inside	NR	NR	NR	X	NR
EW-7	Bi-Annual	Inside	NR	NR	NR	X	NR
Shallow EP-Series Piezometers							
EP-16	Bi-Annual	Inside	NR	NR	NR	X	NR
EP-17	Bi-Annual	Inside	NR	NR	NR	X	NR
EP-18	Bi-Annual	Inside	NR	NR	NR	X	NR
EP-19	Bi-Annual	Inside	NR	NR	NR	X	NR
EP-20	Bi-Annual	Inside	NR	NR	NR	X	NR

(a) Determination of field parameters in accordance with EPA/600/4-79/020 using the following methods: pH (Method 150.1), temperature (Method 170.1), specific conductance (Method 120.1), and turbidity (Method 180.1); optional field parameters, including dissolved oxygen (Method 360.1) and Eh, were also recorded. Includes water level measurement.

NOTE: TCL = Target Compound List.
VOC = Volatile organic compounds (EPA SW846).
TAL = Target Analyte List.
NR = Not required.

Sample Type/Location	Monitoring Frequency	Sample Parameters			Monitoring Event 14	
		TCL VOC	TAL Elements	Field Parameters[a]	Gauged	Sampled
Leachate Station Seep						
SEEP-1	Bi-Annual	X	X	X	X[b]	X
SEEP-3	Bi-Annual	X	X	X	X[b]	X
SEEP-4	Bi-Annual	X	X	X	X[b]	X
SEEP-5	Bi-Annual	X	X	X	X[b]	X
Leachate Station Sediment						
LT-1	Bi-Annual	X	X	NR	NR	X
LT-3	Bi-Annual	X	X	NR	NR	X
LT-4	Bi-Annual	X	X	NR	NR	X
LT-5	Bi-Annual	X	X	NR	NR	X
Surface Water						
SW-4	Bi-Annual	X	X	X	X[b]	X
SW-7	Bi-Annual	X	X	X	X[b]	X
SW-8	Bi-Annual	X	X	X	X[b]	X
SW-9	Bi-Annual	X	X	X	X[b]	X
SW-15[c]	Bi-Annual	NR	X	X	X[b]	X
SW-16[c]	Bi-Annual	NR	X	X	X[b]	X

(b) Field measurement of water quality indicator parameters only.
(c) Surface water locations SW-15 and SW-16 are currently sampled as part of a separate program, although results are summarized in monitoring event reports.

TABLE 2 SUMMARY OF LONG-TERM MONITORING PROGRAM AT EASTERN PLUME

Sample Type/Location	Monitoring Frequency	Well Location	Sample Parameters		Monitoring Event 14	
			TCL VOC	Field Parameters[a]	Gauged	Sampled
Shallow Monitoring Wells						
MW-105 B	Bi-Annual	Perimeter	X	X	X	X
MW-106	Bi-Annual	NA	NR	NR	X	NR
MW-206 B	Bi-Annual	NA	NR	NR	X	NR
MW-207 B	Bi-Annual	NA	NR	NR	X	NR
MW-209	Bi-Annual	NA	NR	NR	X	NR
MW-222	Bi-Annual	NA	NR	NR	X	NR
MW-223	Bi-Annual	NA	NR	NR	X	NR
MW-224	Bi-Annual	Perimeter	X	X	X	X
MW-225 B	Bi-Annual	NA	NR	NR	X	NR
MW-229 B	Bi-Annual	NA	NR	NR	X	NR
MW-231B	Bi-Annual	Sentinel	X	X	X	X
MW-307	Bi-Annual	NA	NR	NR	X	NR
MW-313	Bi-Annual	Sentinel	X	X	X	X
MW-318	Bi-Annual	Sentinel	X	X	X	X
MW-332	Bi-Annual	Interior Plume	X	X	X	X
MW-1104	Bi-Annual	Perimeter	X	X	X	X
Deep Monitoring Wells						
MW-105 A	Bi-Annual	Perimeter	X	X	X	X
MW-205	Bi-Annual	Interior Plume	X	X	X	X
MW-206 A	Bi-Annual	NA	NR	NR	X	NR
MW-207 A	Bi-Annual	Interior Plume	X	X	X	X
MW-208	Bi-Annual	NA	NR	NR	X	NR
MW-225 A	Bi-Annual	Perimeter	X	X	X	X
MW-229 A	Bi-Annual	Perimeter	X	X	X	X
MW-230 A	Bi-Annual	Sentinel	X	X	X	X
MW-231A	Bi-Annual	Sentinel	X	X	X	X
MW-303	Bi-Annual	Sentinel	X	X	X	X
MW-305	Bi-Annual	Sentinel	X	X	X	X
MW-306	Bi-Annual	Perimeter	X	X	X	X
MW-310	Bi-Annual	NA	NR	NR	X	NR
MW-311	Bi-Annual	Interior Plume	X	X	X	X

(a) Determination of field parameters in accordance with EPA/600/4-79/020 using the following methods pH (Method 150.1), temperature (Method 170.1), specific conductance (Method 120.1), and turbidity (Method 180.1); optional field parameters, including dissolved oxygen (Method 360.1) and Eh, were also recorded. Includes water level measurement.

NOTE:
- TCL = Target Compound List.
- VOC = Volatile organic compounds.
- Interior Plume Well = Within area of knowncontamination to monitor plume migration.
- Perimeter Well = Located at the edge of the plume to monitor concentrations of plume boundary.
- Sentinel Well = Outside area of known contamination to be used to warn of plume migration.
- NA = Not applicable. Well is not sampled, therefore, location is not indicated.
- NR = Sampling is not required as per Draft Long-Term Monitoring Plan (EA 1998).

Sample Type/Location	Monitoring Frequency	Well Location	Sample Parameters		Monitoring Event 14	
			TCL VOC	Field Parameters[a]	Gauged	Sampled
Deep Monitoring Well (Continued)						
MW-312	Bi-Annual	NA	NR	NR	X	NR
MW-319	Bi-Annual	Interior Plume	X	X	X	X
MW-330	Bi-Annual	Perimeter	X	X	X	X
MW-331	Bi-Annual	Interior Plume	X	X	X	X
MW-333	Bi-Annual	Sentinel	X	X	X	X
MW-334	Bi-Annual	Sentinel	X	X	X	X
MW-NASB-212	Bi-Annual	Perimeter	X	X	X	X
Bedrock Monitoring Wells						
MW-308	Bi-Annual	Sentinel	X	X	X	X
MW-309 A	Bi-Annual	NA	NR	NR	X	NR
MW-309 B	Bi-Annual	Sentinel	X	X	X	X
MW-316A	Bi-Annual	NA	NR	NR	X	NR
MW-316B	Bi-Annual	NA	NR	NR	X	NR
MW-317A	Bi-Annual	NA	NR	NR	X	NR
MW-317B	Bi-Annual	NA	NR	NR	X	NR
Shallow P-Series Piezometers						
P-103	Bi-Annual	NA	NR	NR	X	NR
P-110	Bi-Annual	NA	NR	NR	X	NR
P-111	Bi-Annual	Perimeter	X	X	X	X
P-112	Bi-Annual	NA	NR	NR	X	NR
P-121	Bi-Annual	NA	NR	NR	X	NR
P-124	Bi-Annual	NA	NR	NR	X	NR
P-132	Bi-Annual	Sentinel	X	X	X	X
Deep P-Series Piezometers						
P-105	Bi-Annual	NA	NR	NR	X	NR
P-106	Bi-Annual	Interior Plume	X	X	X	X
Extraction Wells						
EW-1	Bi-Annual	Interior Plume	X	X	X	X
EW-2	Bi-Annual	Interior Plume	X	X	X	X
EW-2A	Bi-Annual	Interior Plume	X	X	X	X
EW-3	Bi-Annual	Interior Plume	NS	NS	X	NS
EW-4	Bi-Annual	Interior Plume	X	X	X	X
EW-5	Bi-Annual	Interior Plume	X	X	X	X
Deep EP-Series Piezometers						
EP-1	Bi-Annual	NA	NR	NR	X	NR
EP-2	Bi-Annual	NA	NR	NR	X	NR
EP-3	Bi-Annual	NA	NR	NR	X	NR
EP-4	Bi-Annual	NA	NR	NR	X	NR
EP-5	Bi-Annual	NA	NR	NR	X	NR
EP-6	Bi-Annual	NA	NR	NR	X	NR
EP-7	Bi-Annual	NA	NR	NR	X	NR

NOTE: NS = Not sampled. EW-3 was offline for maintenance.

Sample Type/Location	Monitoring Frequency	Well Location	Sample Parameters		Monitoring Event 14	
			TCL VOC	Field Parameters[a]	Gauged	Sampled
Deep EP-Series Piezometers (Continued)						
EP-8	Bi-Annual	NA	NR	NR	X	NR
EP-9	Bi-Annual	NA	NR	NR	X	NR
EP-10	Bi-Annual	NA	NR	NR	X	NR
EP-11	Bi-Annual	NA	NR	NR	X	NR
EP-12	Bi-Annual	NA	NR	NR	X	NR
EP-13	Bi-Annual	NA	NR	NR	X	NR
EP-14	Bi-Annual	NA	NR	NR	X	NR
EP-15	Bi-Annual	NA	NR	NR	X	NR

Sample Type/Location	Monitoring Frequency	Sample Parameters		Monitoring Event 14	
		TCL VOC	Field Parameters[a]	Gauged	Sampled
Surface Water					
SW-10	Bi-Annual	X	X	X[b]	X
SW-11	Bi-Annual	X	X	X[b]	X
SW-12	Bi-Annual	X	X	X[b]	X
SW-13	Bi-Annual	X	X	X[b]	X
SW-14	Bi-Annual	X	X	X[b]	X
GP-1	Bi-Annual	NR	NR	X	NR
GP-2	Bi-Annual	NR	NR	X	NR
GP-3	Bi-Annual	NR	NR	X	NR
GP-4	Bi-Annual	NR	NR	X	NR
GP-5	Bi-Annual	NR	NR	X	NR
GP-6	Bi-Annual	NR	NR	X	NR

(b) Measurement of water quality indicator parameters only.

TABLE 3 MONITORING WELL GAUGING SUMMARY, SITES 1 AND 3

Well Designation	Well Riser Elevation (ft MSL)	Depth to Well Bottom (ft below top of well riser)	Slurry Wall	Bi-Monthly Gauging Data (5 January 1999)		Monitoring Event 14 Gauging Data (2 April 1999)	
				Depth to Water (ft below top of well riser)	Ground-Water Elevation (ft MSL)	Depth to Water (ft below top of well riser)	Ground-Water Elevation (ft MSL)
Shallow Monitoring Wells							
MW-201R	58.88	49.08	Outside	12.25	46.63	9.70	49.18
MW-202A	52.40	31.09	Outside	20.79	31.61	19.45	32.95
MW-202B	53.04	18.12	Outside	Well dry	---	Well dry	---
MW-203	52.75	42.04	Outside	31.77	20.98	31.55	21.20
MW-204	50.50	37.18	Outside	30.15	20.35	29.88	20.62
MW-210B	54.72	40.50	Outside	30.68	24.04	29.88	24.84
MW-211B	65.44	36.50	Inside	30.60	34.84	30.89	34.55
MW-215R	62.26	59.00	Inside	29.52	32.74	29.37	32.89
MW-217B	61.25	32.90	Inside	26.63	34.62	24.45	36.80
MW-234R	68.55	59.52	Inside	35.35	33.20	35.55	33.00
MW-240	52.21	42.60	Outside	31.40	20.81	31.00	24.21
MW-2101	61.05	30.00	Outside	12.55	48.50	11.59	49.46
Deep Monitoring Wells							
MW-216A	71.17	47.71	Inside	37.73	33.44	37.90	33.27
MW-217A	61.78	47.40	Inside	29.35	32.43	29.52	32.26
MW-218	54.16	53.54	Outside	34.16	20.00	33.91	20.25
MW-219	51.87	71.82	Outside	30.74	21.13	30.27	21.60
MW-220	47.20	51.50	Outside	27.85	19.35	27.05	20.15
MW-232A	71.18	54.74	Inside	38.11	33.07	38.14	33.04
MW-233R	63.94	38.71	Inside	30.77	33.17	30.86	33.08
Bedrock Monitoring Wells							
MW-210A	52.17	106.32	Outside	18.82	33.35	18.40	33.77
MW-210R	55.90	112.35	Inside	20.86	35.04	21.22	34.68
MW-211A	65.59	142.76	Inside	24.34	41.25	23.83	41.76
Extraction Wells							
EW-6[(a)]	57.74	39.05	Inside	No data	No data	No data	No data
EW-7	51.13	38.90	Inside	27.31	23.82	26.67	24.46
Shallow EP Series Piezometers							
EP-16	58.92	58.77	Inside	34.67	24.25	34.01	24.91
EP-17	69.73	42.85	Inside	36.42	33.31	36.52	33.21
EP-18	68.58	38.10	Inside	35.28	33.30	35.40	33.18
EP-19	68.22	47.30	Inside	34.88	33.34	35.00	33.22
EP-20	69.55	47.25	Inside	36.00	33.55	36.07	33.48

(a) Unable to gauge EW-6 during gauging events due to excess water in the vault.

NOTE: MSL = Mean sea level.
Dashes (---) indicate data cannot be calculated because well was dry.

TABLE 4 MONITORING WELL GAUGING SUMMARY
EASTERN PLUME

Well Designation	Well Riser Elevation (ft MSL)	Depth to Well Bottom (ft below top of well riser)	Bi-Monthly Gauging Data (5-7 January 1999)		Monitoring Event 14 Gauging Data (1-2 April 1999)	
			Depth to Water (ft below top of well riser)	Ground-Water Elevation (ft MSL)	Depth to Water (ft below top of well riser)	Ground-Water Elevation (ft MSL)
Shallow Monitoring Wells						
MW-105B	24.55	21.91	8.32	16.23	7.50	17.05
MW-106	51.26	37.27	24.46	26.80	23.25	28.01
MW-206B	42.77	27.17	20.30	22.47	19.62	23.15
MW-207B	22.90	9.21	6.42	16.48	3.20	19.70
MW-209	54.84	32.38	27.11	27.73	25.90	28.94
MW-222	57.43	45.34	28.80	28.63	27.56	29.87
MW-223	53.71	42.61	26.38	27.33	25.20	28.51
MW-224	57.63	46.01	28.00	29.63	26.77	30.86
MW-225B	46.25	42.00	22.00	24.25	20.98	25.27
MW-229B	30.08	33.14	15.46	14.62	14.75	15.33
MW-231B	46.31	37.99	25.40	20.91	24.92	21.39
MW-307	62.70	22.21	16.52	46.18	15.47	47.23
MW-313	21.39	37.47	9.08	12.31	8.18	13.21
MW-318	24.28	25.14	5.86	18.42	4.69	19.59
MW-332	25.33	21.03	10.26	15.07	9.00	16.33
MW-1104	60.09	27.55	12.85	47.24	11.29	48.80
Deep Monitoring Wells						
MW-105A	24.19	47.75	3.08	21.11	2.52	21.67
MW-205	45.99	79.00	24.45	21.54	23.85	22.14
MW-206A	43.02	74.36	20.07	22.95	19.30	23.72
MW-207A	24.06	75.55	Frozen	---	0.00	24.06
MW-208	49.40	102.80	22.38	27.02	21.16	28.24
MW-225A	45.95	76.03	20.53	25.42	19.63	26.32
MW-229A	33.83	64.97	14.00	19.83	13.40	20.43
MW-230A	36.32	81.49	15.93	20.39	15.43	20.89
MW-231A	45.41	61.19	21.02	24.39	20.32	25.09
MW-303	44.28	72.75	12.91	31.37	11.75	32.53
MW-305	43.09	53.51	12.91	30.18	11.85	31.24
MW-306	52.12	56.98	19.10	33.02	17.87	34.25
MW-310	53.39	73.25	29.07	24.32	28.24	25.15
MW-311	21.48	56.25	20.13	1.35	18.27	3.21
MW-312	35.97	71.15	13.89	22.08	14.87	21.10

NOTE: MSL = Mean sea level. Dashes (---) indicate ground-water elevation data cannot be calculated because well was frozen or dry.

Well Designation	Well Riser Elevation (ft MSL)	Depth to Well Bottom (ft below top of well riser)	Bi-Monthly Gauging Data (5-7 January 1999)		Monitoring Event 14 Gauging Data (1-2 April 1999)	
			Depth to Water (ft below top of well riser)	Ground-Water Elevation (ft MSL)	Depth to Water (ft below top of well riser)	Ground-Water Elevation (ft MSL)
Deep Monitoring Wells (Continued)						
MW-319	40.16	72.60	15.83	24.33	14.75	25.41
MW-330	35.71	36.36	5.69	30.02	3.60	32.11
MW-331	30.54	56.23	Frozen	---	2.00	28.54
MW-333	27.25	42.85	Frozen	---	11.29	15.96
MW-334	30.93	47.80	Frozen	---	11.73	19.20
MW-NASB-212	41.64	64.29	10.43	31.21	9.10	32.54
Bedrock Monitoring Wells						
MW-308	37.70	73.25	5.65	32.05	4.73	32.97
MW-309A	22.84	72.71	+3.47	26.31	+4.61	27.45
MW-309B	22.32	59.25	Frozen	---	2.37	19.95
MW-316A	53.71	103.10	22.01	31.70	19.90	33.81
MW-316B	54.40	57.85	12.84	41.56	9.10	45.30
MW-317A	71.35	120.79	14.83	56.52	12.65	58.70
MW-317B	70.10	96.95	13.55	56.55	11.40	58.70
Shallow P-Series Piezometers						
P-103	60.35	28.75	26.08	34.27	25.12	35.23
P-110	56.70	23.87	Dry	---	Dry	---
P-111	31.48	9.98	4.75	26.73	4.01	27.47
P-112	41.12	16.41	11.66	29.46	12.50	28.62
P-121	50.78	17.35	15.98	34.80	14.40	36.38
P-124	51.12	23.10	Dry	---	Dry	---
P-132	42.95	32.46	18.38	24.57	17.63	25.32
Deep P-Series Piezometers						
P-105	42.08	70.35	10.41	31.67	9.05	33.03
P-106	38.83	72.40	11.15	27.68	9.82	29.01
Extraction Wells						
EW-1	25.34	99.66	12.60	12.74	11.76	13.58
EW-2	31.63	90.86	14.53	17.10	13.12	18.51
EW-2A	22.27	66.00	45.58	-23.31	42.65	-20.38
EW-3	41.18	67.04	15.35	25.83	12.14	29.04
EW-4	37.13	69.37	15.75	21.38	No data[a]	---
EW-5	36.25	84.99	9.20	27.05	28.07	8.18

(a) Unable to gauge well due to water in well vault.

Well Designation	Well Riser Elevation (ft MSL)	Depth to Well Bottom (ft below top of well riser)	Bi-Monthly Gauging Data (5-7 January 1999)		Monitoring Event 14 Gauging Data (1-2 April 1999)	
			Depth to Water (ft below top of well riser)	Ground-Water Elevation (ft MSL)	Depth to Water (ft below top of well riser)	Ground-Water Elevation (ft MSL)
Deep EP-Series Piezometers						
EP-1	31.67	101.22	12.46	19.21	11.65	20.02
EP-2	29.74	99.00	10.86	18.88	10.05	19.69
EP-3	27.91	89.21	Frozen	---	7.43	20.48
EP-4	32.59	91.11	10.50	22.09	9.32	23.27
EP-5	34.61	79.85	11.14	23.47	9.90	24.71
EP-6	40.14	83.51	Frozen	---	14.70	25.44
EP-7	48.49	70.20	21.15	27.34	19.92	28.57
EP-8	47.31	80.38	19.78	27.53	18.56	28.75
EP-9	37.84	62.46	Frozen	---	7.36	30.48
EP-10	37.78	57.73	8.48	29.30	7.20	30.58
EP-11	41.59	65.03	11.37	30.22	10.05	31.54
EP-12	49.38	69.61	18.95	30.43	17.65	31.73
EP-13	38.96	70.93	7.09	31.87	5.79	33.17
EP-14	43.46	80.05	11.85	31.61	10.80	32.66
EP-15	45.37	82.68	14.03	31.34	13.67	31.70

Surface Water Gauging Stations					
Well Designation	Gauging Point Elevation (ft MSL)	Bi-Monthly Gauging Data (5-7 January 1999)		Monitoring Event 14 Gauging Data (1-2 April 1999)	
		Depth to Water (ft below gauging point)	Surface Water Elevation (ft MSL)	Depth to Water (ft below gauging point)	Surface Water Elevation (ft MSL)
GP-1	31.10	3.06	28.04	3.02	28.08
GP-2	23.92	+2.65	26.57	+2.55	26.47
GP-3	27.33	Frozen	---	3.50	23.83
GP-4	18.39	2.90	15.49	2.56	15.83
GP-5	23.38	9.67	13.71	9.05	14.33
GP-6	15.22	11.55	3.67	10.45	4.77

TABLE 5 GROUND-WATER EXTRACTION FLOW RATE AND RUN TIME SUMMARY
1 DECEMBER 1998 – 30 APRIL 1999, GROUND-WATER EXTRACTION AND TREATMENT SYSTEM (BUILDING 50)

	Date															
	12/1/98	12/2/98	12/3/98	12/4/98	12/5/98	12/6/98	12/7/98	12/8/98	12/9/98	12/10/98	12/11/98	12/12/98	12/13/98	12/14/98	12/15/98	12/16/98
EW-1																
Flow rate (gpm)	10.5	10.0	10.0	10.0	11.0	11.0	11.8	11.8	11.7	12.1	11.8	11.8	11.8	11.8	11.7	11.7
Run time (hours)	24	24	24	20.5	24	24	24	24	24	24	24	24	24	24	24	24
EW-2																
Flow rate (gpm)	14.9	15.8	15.7	15.7	16.5	16.5	17.9	17.9	17.7	18.1	18.2	18.2	18.2	18.2	18.0	18.0
Run time (hours)	24	24	24	20.5	24	24	24	24	24	24	24	24	24	24	24	24
EW-2A																
Flow rate (gpm)	16.5	16.5	21.5	16.6	18.7	18.7	20.7	20.8	20.90	21.1	20.9	21.0	21.0	21.0	21.0	20.9
Run time (hours)	24	24	24	20.5	24	24	24	24	24	24	24	24	24	24	24	24
EW-3																
Flow rate (gpm)	18.9	9.2	7.0	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Run time (hours)	24	24	24	8.5	0	0	0	0	0	0	0	0	0	0	0	0
EW-4																
Flow rate (gpm)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Run time (hours)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EW-5																
Flow rate (gpm)	20.0	18.8	19.0	19.0	19.9	19.9	20.7	20.5	20.6	20.4	20.7	20.0	20.0	20.32	20.20	20.3
Run time (hours)	24	24	24	20.5	24	24	24	24	24	24	24	24	24	24	24	24

	Date														
	12/17/98	12/18/98	12/19/98	12/20/98	12/21/98	12/22/98	12/23/98	12/24/98	12/25/98	12/26/98	12/27/98	12/28/98	12/29/98	12/30/98	12/31/98
EW-1															
Flow rate (gpm)	11.8	11.8	11.7	11.7	11.6	11.4	11.7	11.5	11.5	11.5	11.5	11.5	11.4	11.5	11.4
Run time (hours)	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
EW-2															
Flow rate (gpm)	18.2	18.2	18.1	18.1	18.0	18.1	18.2	17.8	18.0	18.0	18.0	18.0	18.2	18.1	17.9
Run time (hours)	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
EW-2A															
Flow rate (gpm)	20.8	20.6	20.7	20.7	20.7	20.7	20.7	20.5	20.9	20.9	20.9	20.9	21.3	21.2	21.3
Run time (hours)	24	24	24	12	24	24	24	24	24	24	24	24	24	24	24
EW-3															
Flow rate (gpm)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Run time (hours)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EW-4															
Flow rate (gpm)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Run time (hours)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EW-5															
Flow rate (gpm)	19.8	20.1	20.0	20.0	19.9	20.2	20.0	20.3	19.9	19.9	19.9	19.9	19.5	19.8	20.0
Run time (hours)	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24

NOTE: Extraction well EW-3 inoperable after 4 December 1998 due to high turbidity conditions.
Extraction well EW-4 removed from service during the reporting period due to pump assembly failure; equipment was replaced and tested during January 1999. EW-4 was returned to service on 13 January 1999.

	Date															
	1/1/99	1/2/99	1/3/99	1/4/99	1/5/99	1/6/99	1/7/99	1/8/99	1/9/99	1/10/99	1/11/99	1/12/99	1/13/99	1/14/99	1/15/99	1/16/99
EW-1																
Flow rate (gpm)	11.5	11.5	11.5	11.52	10.8	11.2	11.1	0.0	0.0	0.0	0.0	0.0	11.7	11.7	00.7	11.3
Run time (hours)	24	24	21	17.5	24	24	8.5	0	0	0	0	0	11	24	22.5	24
EW-2																
Flow rate (gpm)	17.9	17.9	17.9	17.9	17.4	17.1	17.4	0.0	0.0	0.0	0.0	0.0	17.4	17.4	17.4	17.5
Run time (hours)	24	24	21	17.5	24	24	8.5	0	0	0	0	0	11	24	22.5	24
EW-2A																
Flow rate (gpm)	21.2	21.2	21.2	21.2	19.9	19.9	20.2	0.0	0.0	0.0	0.0	0.0	20.2	20.2	20.2	20.3
Run time (hours)	24	24	21	17.5	24	24	8.5	0	0	0	0	0	11	24	22.5	24
EW-3																
Flow rate (gpm)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Run time (hours)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EW-4																
Flow rate (gpm)	0.0	0.0	0.0	0.0	5.7	14.3	14.5	0.0	0.0	0.0	0.0	0.0	14.0	14.0	14.0	14.4
Run time (hours)	0	0	0	0	24	24	8.5	0	0	0	0	0	11	24	22.5	0
EW-5																
Flow rate (gpm)	20.1	20.1	20.1	20.1	19.4	19.6	19.8	0.0	0.0	0.0	0.0	0.0	19.6	19.6	19.6	19.2
Run time (hours)	24	24	21	17.5	24	24	8.5	0	0	0	0	0	11	24	22.5	24

	Date															
	1/17/99	1/18/99	1/19/99	1/20/99	1/21/99	1/22/99	1/23/99	1/24/99	1/25/99	1/26/99	1/27/99	1/28/99	1/29/99	1/30/99	1/31/99	
EW-1																
Flow rate (gpm)	11.4	11.4	11.4	0.0	11.6	11.9	11.9	11.9	11.4	11.4	11.6	11.5	12.0	12.0	12.0	
Run time (hours)	23	24	15.5	0	24	24	24	24	23.5	24	24	24	24	24	24	
EW-2																
Flow rate (gpm)	17.5	17.5	17.5	18.8	17.2	17.8	17.8	17.8	17.7	17.7	18.0	17.4	17.6	17.6	17.6	
Run time (hours)	23	24	15.5	24	24	24	24	24	23.5	24	24	24	24	24	24	
EW-2A																
Flow rate (gpm)	20.3	20.3	20.3	22.0	20.8	20.6	20.6	20.6	20.1	20.1	20.4	20.3	20.1	20.1	20.1	
Run time (hours)	23	24	15.5	24	24	24	24	24	23.5	24	24	24	24	24	24	
EW-3																
Flow rate (gpm)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Run time (hours)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EW-4																
Flow rate (gpm)	14.4	14.4	14.4	15.0	14.3	14.5	14.5	14.5	14.5	14.5	14.5	14.6	14.4	14.4	14.4	
Run time (hours)	23	24	15.5	24	24	24	24	24	23.5	24	24	24	24	24	24	
EW-5																
Flow rate (gpm)	19.2	19.2	19.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	4.5	4.5	4.5	
Run time (hours)	23	24	15.5	0	0	0	0	0	0	0	0	24	24	24	24	

NOTE: Extraction wells shut down 9-12 January 1999 due to malfunction unrelated to the treatment plant at Theater Pump Station.

	Date													
	2/1/99	2/2/99	2/3/99	2/4/99	2/5/99	2/6/99	2/7/99	2/8/99	2/9/99	2/10/99	2/11/99	2/12/99	2/13/99	2/14/99
EW-1														
Flow rate (gpm)	11.6	11.4	11.4	11.2	11.3	11.3	11.3	11.3	11.1	11.1	11.2	11.1	11.1	11.2
Run time (hours)	23.5	24	24	24	24	24	24	24	24	24	24	24	24	24
EW-2														
Flow rate (gpm)	17.3	17.2	17.4	17.3	17.1	17.2	17.2	17.4	17.4	17.2	17.4	17.4	17.4	17.3
Run time (hours)	23.5	24	24	24	24	24	24	24	24	24	24	24	24	24
EW-2A														
Flow rate (gpm)	20.0	20.2	19.9	19.9	19.9	19.8	19.9	19.8	19.7	19.6	19.6	19.4	19.4	19.5
Run time (hours)	23.5	24	24	24	24	24	24	24	24	24	24	24	24	24
EW-3														
Flow rate (gpm)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Run time (hours)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EW-4														
Flow rate (gpm)	14.3	14.0	14.2	14.0	13.9	13.8	13.9	13.8	14.0	14.0	14.0	14.0	14.0	14.0
Run time (hours)	23.5	24	24	24	24	24	24	24	24	24	24	24	24	24
EW-5														
Flow rate (gpm)	4.3	4.4	4.3	4.3	8.6	8.5	8.4	8.4	8.2	8.3	8.3	8.2	8.2	8.2
Run time (hours)	23.5	24	24	24	24	24	24	24	24	24	24	24	24	24

	Date													
	2/15/99	2/16/99	2/17/99	2/18/99	2/19/99	2/20/99	2/21/99	2/22/99	2/23/99	2/24/99	2/25/99	2/26/99	2/27/99	2/28/99
EW-1														
Flow rate (gpm)	11.2	11.3	10.9	11.0	11.2	11.0	11.0	10.9	10.7	10.5	10.8	10.7	10.7	10.7
Run time (hours)	24	24	24	24	24	24	24	24	24	24	24	24	24	24
EW-2														
Flow rate (gpm)	17.3	17.5	17.4	17.5	17.1	17.1	17.2	17.2	17.2	17.2	17.2	16.8	16.9	16.9
Run time (hours)	24	24	24	24	24	24	24	24	24	24	24	24	24	24
EW-2A														
Flow rate (gpm)	19.5	19.4	19.6	19.4	19.1	19.2	19.2	19.3	19.2	19.2	19.1	19.1	19.1	19.1
Run time (hours)	24	24	24	24	24	24	24	24	24	24	24	24	24	24
EW-3														
Flow rate (gpm)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Run time (hours)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EW-4														
Flow rate (gpm)	14.0	14.1	14.1	14.1	13.9	13.8	13.8	13.7	13.8	13.8	14.1	14.2	14.0	14.0
Run time (hours)	24	24	24	24	24	24	24	24	24	24	24	24	24	24
EW-5														
Flow rate (gpm)	8.2	8.1	8.3	15.5	15.4	15.4	15.4	15.4	15.3	15.2	15.1	15.4	15.2	15.2
Run time (hours)	24	24	24	24	24	24	24	24	24	24	24	24	24	24

	Date															
	3/1/99	3/2/99	3/3/99	3/4/99	3/5/99	3/6/99	3/7/99	3/8/99	3/9/99	3/10/99	3/11/99	3/12/99	3/13/99	3/14/99	3/15/99	3/16/99
EW-1																
Flow rate (gpm)	10.5	10.6	10.5	10.6	10.6	10.5[a]	10.5[a]	10.4	10.6	10.7	10.6	10.6	10.7[a]	10.7[a]	10.7	11.0
Run time (hours)	24	24	24	23.5[b]	24	24	24	24	24	24	23[b]	24	24	24	24	24
EW-2																
Flow rate (gpm)	16.7	16.8	16.9	17.0	17.0	17.0[a]	17.0[a]	17.0	17.0	17.3	17.3	17.5	17.3[a]	17.3[a]	17.0	17.6
Run time (hours)	24	24	24	23.5[b]	24	24	24	24	24	24	23[b]	24	24	24	24	24
EW-2A																
Flow rate (gpm)	19.2	19.1	19.2	19.2	19.2	19.1[a]	19.1[a]	19.0	19.1	19.6	18.9	19.6	19.6[a]	19.6[a]	19.6	19.7
Run time (hours)	24	24	24	23.5[b]	24	24	24	24	24	24	23[b]	24	24	24	24	24
EW-3																
Flow rate (gpm)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Run time (hours)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EW-4																
Flow rate (gpm)	14.3	14.0	14.0	14.0	13.9	14.1[a]	14.1[a]	14.2	14.1	14.4	14.2	14.1	14.2[a]	14.2[a]	14.3	14.1
Run time (hours)	24	24	24	23.5[b]	24	24	24	24	24	24	23[b]	24	24	24	24	24
EW-5																
Flow rate (gpm)	15.3	15.3	15.2	15.4	15.8	15.3[a]	15.3[a]	14.8	14.9	15.1	15.3	15.2	15.3[a]	15.3[a]	15.3	15.2
Run time (hours)	24	24	24	14	17	24	24	24	24	24	23[b]	24	24	24	24	24

	Date														
	3/17/99	3/18/99	3/19/99	3/20/99	3/21/99	3/22/99	3/23/99	3/24/99	3/25/99	3/26/99	3/27/99	3/28/99	3/29/99	3/30/99	3/31/99
EW-1															
Flow rate (gpm)	10.9	10.7	10.8	10.6[a]	10.6[a]	10.3	10.6	10.7	11.0	10.9	10.9[a]	10.9[a]	10.7	10.7	10.6
Run time (hours)	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
EW-2															
Flow rate (gpm)	17.6	17.2	17.0	17.1[a]	17.1[a]	17.1	17.2	17.0	17.1	17.2	17.2[a]	17.2[a]	17.2	17.3	17.2
Run time (hours)	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
EW-2A															
Flow rate (gpm)	20.0	19.8	17.1	17.1[a]	17.1[a]	19.7	19.6	19.6	19.6	19.6	19.6[a]	19.6[a]	19.5	19.7	19.6
Run time (hours)	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
EW-3															
Flow rate (gpm)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Run time (hours)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EW-4															
Flow rate (gpm)	14.5	14.3	14.1	14.2[a]	14.2[a]	14.2	14.2	14.1	14.1	14.3	14.3[a]	14.3[a]	14.5	14.4	14.4
Run time (hours)	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
EW-5															
Flow rate (gpm)	15.1	15.3	15.1	15.2[a]	15.2[a]	15.2	14.1	14.8	15.0	14.9	14.9[a]	14.9[a]	14.7	14.7	15.0
Run time (hours)	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24

(a) Estimated value based on flow history.
(b) Operational interruption.

NOTE: GWETS operations interrupted on 4 March 1999 for 0.5 hour and on 11 March 1999 for 1 hour for scheduled plant maintenance.

	Date														
	4/1/99	4/2/99	4/3/99	4/4/99	4/5/99	4/6/99	4/7/99	4/8/99	4/9/99	4/10/99	4/11/99	4/12/99	4/13/99	4/14/99	4/15/99
EW-1															
Flow rate (gpm)	10.3	10.8	10.9[a]	10.9[a]	11.0	11.1	10.6	10.5	10.6	10.4[a]	10.4[a]	10.3	10.6	10.6	10.5
Run time (hours)	24	24	24	24	22.5	22	24	24	24	24	24	24	24	24	24
EW-2															
Flow rate (gpm)	17.3	17.9	17.9[a]	17.9[a]	17.9	17.3	17.2	17.5	17.0	17.1[a]	17.1[a]	17.1	17.2	17.3	17.3
Run time (hours)	24	24	24	24	22.5	22	24	24	24	24	24	24	24	24	24
EW-2A															
Flow rate (gpm)	19.5	20.4	20.4[a]	20.4[a]	20.5	23.2	19.8	19.8	19.9	19.9[a]	19.9[a]	19.9	19.9	19.7	19.7
Run time (hours)	24	24	24	24	22	22	24	24	24	24	24	24	24	24	24
EW-3															
Flow rate (gpm)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Run time (hours)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EW-4															
Flow rate (gpm)	14.4	0.0	0.0	0.0	0.0	14.2	14.2	14.2	14.1	14.2[a]	14.2[a]	14.3	14.2	14.0	14.0
Run time (hours)	13	0	0	0	0	22	24	24	24	24	24	24	24	24	24
EW-5															
Flow rate (gpm)	14.8	15.0	18.0[a]	15.0	14.9	15.5	14.8	14.7	15.0	14.8[a]	14.8[a]	14.7	14.8	14.5	14.9
Run time (hours)	24	24	24	24	22.5	22	24	24	24	24	24	24	24	24	24

	Date														
	4/16/99	4/17/99	4/18/99	4/19/99	4/20/99	4/21/99	4/22/99	4/23/99	4/24/99	4/25/99	4/26/99	4/27/99	4/28/99	4/29/99	4/30/99
EW-1															
Flow rate (gpm)	10.3	10.3[a]	10.3[a]	10.3	10.3	10.3	10.2	10.1[a]	10.1[a]	10.1[a]	10.0	10.1	10.3	9.9	10.3
Run time (hours)	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
EW-2															
Flow rate (gpm)	17.4	17.3[a]	17.3[a]	17.3	17.6	17.4	17.0	17.2[a]	17.2[a]	17.2[a]	17.4	17.1	17.1	17.3	13.1
Run time (hours)	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
EW-2A															
Flow rate (gpm)	19.7	19.6[a]	19.62[a]	19.6	19.7	19.6	19.5	19.5[a]	19.5[a]	19.5[a]	19.6	19.7	19.6	19.6	21.0
Run time (hours)	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
EW-3															
Flow rate (gpm)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Run time (hours)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EW-4															
Flow rate (gpm)	14.2	14.2[a]	14.2[a]	14.3	14.0	14.3	14.1	14.1[a]	14.1[a]	14.1[a]	14.2	14.1	14.1	14.1	14.1
Run time (hours)	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
EW-5															
Flow rate (gpm)	14.8	14.9[a]	14.9[a]	14.9	14.8	14.4	14.5	14.5[a]	14.5[a]	14.5[a]	14.5	14.6	14.5	14.3	14.3
Run time (hours)	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24

TABLE 6 SUMMARY OF WATER QUALITY INDICATOR PARAMETERS MEASURED IN GROUND-WATER SAMPLES COLLECTED ON 14 APRIL 1999, AT SITES 1 AND 3

Well Designation	Location Relative to Slurry Wall	pH	Temperature (°C)	Conductivity (µmhos/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	Eh (mV)
Shallow Monitoring Wells							
MW-202A	Outside	5.36	13.57	520	3.21	0	179
MW-203	Outside	5.53	10.87	694	9.14	3	230
MW-204	Outside	6.37	9.94	39	11.37	0	370
MW-217B	Inside	(a)	13.62	1,657	0.74	238	62
MW-218	Outside	6.01	10.12	856	0.84	19	-27
MW-240	Outside	6.58	12.58	92	10.46	0	379
MW-2101	Outside	5.58	11.46	286	9.28	0	381
Deep Monitoring Wells							
MW-219	Outside	6.18	10.06	104	9.17	1	342

(a) YSI water quality meter pH probe malfunction.

NOTE: NTU = Nephelometric turbidity unit.

TABLE 7 SUMMARY OF WATER QUALITY INDICATOR PARAMETERS MEASURED IN GROUND-WATER SAMPLES COLLECTED ON 6-9 APRIL 1999 AT EASTERN PLUME

Well Designation	pH	Temperature (°C)	Conductivity (µmhos/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	Eh (mV)
Shallow Monitoring Wells						
MW-224	5.58	13.40	60	10.60	49	273
MW-231B	5.54	11.50	46	13.00	(a)	276
MW-313	7.75	8.90	185	1.20	22	168
MW-318	6.67	12.22	89	7.35	2	192
MW-332	8.23	7.34	31	8.78	0	133
MW-1104	5.64	13.27	178	1.94	0	194
Deep Monitoring Wells						
MW-105A	7.43	8.39	39	9.89	2	223
MW-205	10.45	8.96	68	4.69	44	164
MW-207A	6.70	8.79	118	0.18	0	253
MW-225A	6.10	9.30	72	8.40	5	193
MW-229A	7.48	7.67	75	(a)	3	176
MW-230A	7.78	9.40	70	0.27	43	-117
MW-231A	5.57	11.35	46	11.72	102	360
MW-303	7.44	6.93	157	0.95	1	364
MW-305	7.09	8.93	119	0.21	72	194
MW-306	5.90	9.54	46	11.53	5	231
MW-311	7.85	10.23	96	3.14	8	183
MW-319	7.74	9.30	125	5.90	4	216
MW-330	7.92	9.32	75	0.44	129	-30
MW-331	5.81	8.90	1,112	1.40	6	263
MW-333	7.54	8.05	155	0.92	7	350
MW-334	7.92	8.39	126	0.77	40	181
MW-NASB-212	6.50	9.72	141	0.59	4	91
Bedrock Monitoring Wells						
MW-308	8.30	9.14	602	0.26	0	-90
MW-309B	8.53	11.43	200	0.11	8	-79
Shallow P-Series Piezometers						
P-111	6.32	5.43	77	10.74	9	282
P-132	5.95	13.78	22	13.06	17	265
Deep P-Series Piezometers						
P-106	7.19	8.68	94	2.93	6	246

(a) YSI water quality meter dissolved oxygen probe malfunction.

NOTE: NTU = Nephelometric turbidity unit.

TABLE 8 SUMMARY OF WATER QUALITY INDICATOR PARAMETERS MEASURED IN WATER SAMPLES COLLECTED FROM EXTRACTION WELLS AND THE TREATMENT PLANT ON 9 APRIL 1999 AT EASTERN PLUME

Well Designation	pH	Temperature (°C)	Conductivity (Fmhos/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	Eh (mV)
Extraction Wells						
EW-1	8.15	9.33	130	5.38	4	257
EW-2	7.00	8.30	252	9.93	2	320
EW-2A	7.25	8.28	222	9.33	4	299
EW-3	Well offline; no data					
EW-4	7.08	8.73	83	8.78	0	318
EW-5	7.02	8.39	78	6.88	2	326
Ground-Water Treatment Plant						
Eastern Plume Raw Influent	6.99	8.42	160	6.61	0	336
Combined Effluent	6.85	11.10	176	12.02	0	285

NOTE: NTU = Nephelometric turbidity unit.

TABLE 9 SUMMARY OF ANALYTICAL RESULTS FOR GROUND-WATER SAMPLES COLLECTED ON 14 APRIL 1999 AT SITES 1 AND 3

Analyte	MW-202A	MW-202A DUP	MW-203	MW-204	MW-217B	MW-218	MW-219	MW-240	MW-2101			
Well Depth and Location Relative to Slurry Wall	Shallow/ Outside Slurry Wall	Shallow/ Outside Slurry Wall	Shallow/ Outside Slurry Wall	Shallow/ Outside Slurry Wall	Shallow/ Inside Slurry Wall	Deep/ Outside Slurry Wall	Deep/ Outside Slurry Wall	Shallow/ Outside Slurry Wall	Shallow/ Outside Slurry Wall	TRIP-3	MEG[a]	MCL[b]
VOLATILE ORGANIC COMPOUNDS BY EPA METHOD 8260 (Fg/L)												
1,1-Dichloroethane	3	4	0.6J	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	70	---
Total 1,2-Dichloroethene	(<1U)	(<1U)	(<1U)	(<1U)	0.7J	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	70	70
Benzene	(<1U)	(<1U)	(<1U)	(<1U)	5	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	5	5
Chlorobenzene	(<1U)	(<1U)	(<1U)	(<1U)	3	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	47	100
Ethylbenzene	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	700	700
Methylene Chloride	2B	2B	2B	(<1U)	(<1U)	2B	2B	2B	(<1U)	2B	48	5
Toluene	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	1,400	1,000
Vinyl Chloride	(<2U)	(<2U)	(<2U)	(<2U)	**35**	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	0.15	2.0
Total Xylenes	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	600	10,000
1,1,2,2-Tetrachloroethane	10	12	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	---	---
Trichloroethene	(<1U)	2	(<1U)	(<1U)	0.7J	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	5	5
1,1,1-Trichloroethane	37	43	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	200	200
1,2-Dichlorobenzene	(<1U)	(<1U)	(<1U)	(<1U)	260D	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	600	600
1,3-Dichlorobenzene	(<1U)	(<1U)	(<1U)	(<1U)	130	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	600	600
1,4-Dichlorobenzene	(<1U)	(<1U)	(<1U)	(<1U)	**140**	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	27	75
Tetrachloroethene	1	2	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	3	5
Acetone	(<5U)	(<5U)	(<5U)	(<5U)	8	(<5U)	(<5U)	(<5U)	(<5U)	(<5U)	---	---

(a) MEG (Maximum Exposure Guideline) obtained from State of Maine Department of Human Services Revised Maximum Exposure Guidelines, memorandum dated 23 October 1992. Dashes (---) indicate no MEG applicable.
(b) MCL (Maximum Contaminant Level) obtained from 40 CFR Parts 141 and 142 (U.S. EPA 1994). Dashes (---) indicate no MCL applicable.

NOTE: TRIP = Trip blank. Samples associated with QT-4 were analyzed under a separate sample delivery group shipped on the same day.
U = Not detected. Sample quantitation limits are shown as (<____U).
J = Estimated concentration below detection limit.
D = Analysis at a secondary dilution factor.
Only those analytes detected in at least one of the samples, and the chemicals of concern listed in the Draft Long-Term Monitoring Plan (EA 1998) are shown on this table.
Results in bold indicate concentrations above primary Federal MCL and/or State MEG.
Refer to Data Quality Review section (Appendix B) for listing of Method Detection Limits for referenced analytical methods.

Analyte	MW-202A	MW-202A DUP	MW-203	MW-204	MW-217B	MW-218	MW-219	MW-240	MW-2101	TRIP-3	MEG[a]	MCL[b]
Well Depth and Location Relative to Slurry Wall	Shallow/ Outside Slurry Wall	Shallow/ Outside Slurry Wall	Shallow/ Outside Slurry Wall	Shallow/ Outside Slurry Wall	Shallow/ Inside Slurry Wall	Deep/ Outside Slurry Wall	Deep/ Outside Slurry Wall	Shallow/ Outside Slurry Wall	Shallow/ Outside Slurry Wall			
VOLATILE ORGANIC COMPOUNDS BY EPA METHOD 8260 (Fg/L) (Continued)												
1,1,2-Trichloroethane	3	**4**	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	3	5
1,2-Dichloroethane	(<1U)	(<1U)	(<1U)	(<1U)	**8**	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	5	5
Total VOC[c]	54	67	1	0	590	0	0	0	0	NA	NA	NA
TARGET ANALYTE ELEMENTS BY EPA SERIES 6000/7000 METHODS (Fg/L)												
Aluminum	(<20.93U)	(<20.93U)	82.7B*	(<20.93U)	**14,900**	279	162	808	97.5B*	NR	1,430	50-200[d]
Arsenic	(<2.07U)	(<2.07U)	(<2.07U)	(<2.07U)	11.2	**75.0**	(<2.07U)	(<2.07U)	(<2.07U)	NR	---	50
Barium	49.8	52.3	44.1	1.6B*	190	2.9B*	5.0B*	9.1	50.2	NR	1,500	2,000
Beryllium	(<0.21U)	(<0.21U)	(<0.21U)	(<0.21U)	0.99B*	(<0.21U)	(<0.21U)	(<0.21U)	(<0.21U)	NR	---	4
Cadmium	2.6B*	0.81B*	0.34B*	0.34B*	0.43B*	0.44B*	0.31B*	(<0.26U)	0.27B*	NR	5	5
Calcium	71,000	86,400	95,900	2,570	121,000	12,400	8,240	9,040	41,800	NR	---	---
Chromium	10.6B*	2.6B*	**163**	3.7B*	83.2	7.2B*	4.4B*	5.8B*	13.8B*	NR	100	100
Cobalt	8.5B*	11.9B*	23.0B*	(<0.64U)	26.5B*	2.0B*	(<0.64U)	2.4B*	(<0.64U)	NR	---	---
Copper	7.5B*	7.6B*	57.3	3.9B*	31.4	2.5B*	3.6B*	3.9B*	2.3B*	NR	---	1,300[e]
Iron	8,030	11,000	1,190	74.7	42,800	2,430	369	110	117	NR	---	300[d]
Lead	(<1.09U)	(<1.09U)	1.1B*	2.0B*	13.8	(<1.09U)	(<1.09U)	(<1.09U)	2.1B*	NR	20	15[e]
Magnesium	9,120	10,600	16,000	862	43,500	7,020	3,020	1,250	5,620	NR	---	---
Manganese	**878**	**1,140**	42.1	1.4B*	**3,120**	**559**	5.2	15.8	14.2	NR	200	50[d]
Mercury	0.02B*	0.03B*	0.03B*	(<0.02U)	0.04B*	0.04B*	0.03B*	0.04B*	0.03B*	NR	2	2
Nickel	47.0	37.7B*	22.2B*	3.2B*	78.7	5.3B*	4.5B*	8.3B*	7.5B*	NR	150	100
Potassium	6,670	5,770	4,520	610B*	10,100	8,240	1,150	3,290	8,070	NR	---	---
Selenium	(<2.57U)	(<2.57U)	(<2.57U)	(<2.57U)	4.4B*	(<2.57U)	(<2.57U)	(<2.57U)	(<2.57U)	NR	10	50
Silver	(<0.69U)	1.8B*	(<0.69U)	(<0.69U)	(<0.69U)	0.71B*	(<0.69U)	1.8B*	(<0.69U)	NR	50	100
Sodium	13,500	14,400	24,900	4,680	240,000	226,000	8,050	5,170	6,160	NR	---	---
Vanadium	(<0.62U)	(<0.62U)	2.6B*	0.63B*	34.8	(<0.62U)	(<0.62U)	(<0.62U)	(<0.62U)	NR	---	---
Zinc	9.8B*	5.7B*	4.0B*	2.0B*	70.2	12.0B*	17.4B*	3.2B*	7.0B*	NR	---	5,000[d]

(c) Total volatile organic compound calculation does not include common laboratory contaminants such as methylene chloride and acetone. Values are rounded to closest whole number.
(d) Secondary MCL, based on taste, odor, or color.
(e) Action level.

NOTE: NA = Not applicable.
B* = Analyte concentration is between the Instrument Detection Limit and the Contract Required Detection Limit.
NR = Analysis not required in Draft Long-Term Monitoring Plan (EA 1998).

TABLE 10 SUMMARY OF ANALYTICAL RESULTS FOR GROUND-WATER SAMPLES COLLECTED ON 6-9 APRIL 1999 AT EASTERN PLUME

Analyte	MW-105A	MW-205	MW-207A	MW-224	MW-225A	MW-229A	MW-230A	MW-230A DUP	MW-231A	MW-231A DUP		
Well Depth and Location[a]	Deep/ Perimeter	Deep/ Interior Plume	Deep/ Perimeter	Shallow/ Interior Plume	Deep/ Perimeter	Deep/ Perimeter	Deep/ Sentinel	Deep/ Sentinel	Deep/ Sentinel	Deep/ Sentinel	MEG[b]	MCL[c]
VOLATILE ORGANIC COMPOUNDS BY EPA METHOD 8260 (mg/L)												
1,1,1-Trichloroethane	(<1U)	**300D**	31	(<1U)	2	42B	(<1U)	(<1U)	(<1U)	(<1U)	200	200
Total 1,2-Dichloroethene	(<1U)	16	16	(<1U)	2	8	(<1U)	(<1U)	(<1U)	(<1U)	70	70
Methylene Chloride	(<1U)	0.6J	(<1U)	(<1U)	0.9JB	**23B**	**22B**	1	3B	0.7JB	48	5
Trichloroethene	(<1U)	**150**	**46**	(<1U)	2	**37B**	(<1U)	(<1U)	(<1U)	(<1U)	5	5
Tetrachloroethene	(<1U)	**19**	**33**	0.9J	0.8J	**5**	(<1U)	(<1U)	(<1U)	(<1U)	3	5
1,1-Dichloroethene	(<1U)	**17**	4	(<1U)	(<1U)	2	(<1U)	(<1U)	(<1U)	(<1U)	7	7
1,1-Dichloroethane	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	70	---
Total Xylenes	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	600	10,000
Ethylbenzene	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	700	700
Chloroform	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	---	100
Benzene	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	5	5
1,2-Dichloroethane	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	0.7J	0.7J	(<1U)	(<1U)	5	5
2-Butanone	(<5U)	(<5U)	(<5U)	(<5U)	(<5U)	3J	4J	(<5U)	14	8	---	---
Bromodichloromethane	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	---	---
Acetone	(<5U)	(<5U)	(<5U)	(<5U)	(<5U)	(<5U)	(<5U)	(<5U)	4JB	3JB	---	---
Total VOC[d]	0	502	130	1	7	97	5	1	14	8	NA	NA

(a) Definitions of sentinel well, interior plume well, and perimeter well are provided below.
(b) MEG (Maximum Exposure Guideline) obtained from State of Maine Department of Human Services Revised Maximum Exposure Guidelines, memorandum dated 20 October 1992. Dashes (---) indicate no MEG applicable.
(c) MCL (Maximum Contaminant Level) obtained from 40 CFR Parts 141 and 142 (U.S. EPA 1994). Dashes (---) indicate no MCL applicable.
(d) Total volatile organic compound calculation does not include common laboratory contaminants such as methylene chloride and acetone. Values are rounded to closest whole number.

NOTE:
- U = Not detected. Sample quantitation limits are shown as (<____U).
- D = Analysis at a secondary dilution factor.
- B = Compound detected in associated method blank.
- J = Estimated concentration below detection limit.
- NA = Not applicable.
- Interior Plume Well = Within area of known contamination to monitor plume migration.
- Sentinel Well = Outside area of known contamination to be used to warn of plume migration.
- Perimeter Well = Located at edge of the plume to monitor concentrations of plume boundary.

Only those analytes detected in at least one of the samples, and the chemicals of concern listed in the Draft Long-Term Monitoring Plan (EA 1998) are shown on this table.
Results in bold indicate concentrations above Federal MCL and/or State MEG.
Refer to Data Quality Review section (Appendix B) for listing of Method Detection Limits for referenced analytical methods.

Analyte	MW-231B	MW-303	MW-305	MW-306	MW-308	MW-308 DUP	MW-309B	MW-311	MW-313	MW-318	MW-319	MW-330		
Well Depth[a]	Shallow/ Sentinel	Deep/ Sentinel	Deep/ Sentinel	Deep/ Perimeter	Bedrock/ Perimeter	Bedrock/ Perimeter	Bedrock/ Sentinel	Deep/ Interior Plume	Shallow/ Sentinel	Shallow/ Sentinel	Deep/ Interior Plume	Deep/ Interior Plume	MEG[b]	MCL[c]
VOLATILE ORGANIC COMPOUNDS BY EPA METHOD 8260 (Fg/L)														
1,1,1-Trichloroethane	(<1U)	(<1U)	(<1U)	39	(<1U)	(<1U)	(<1U)	**2,400**	(<1U)	(<1U)	6	(<1U)	200	200
Total 1,2-Dichloroethene	(<1U)	(<1U)	(<1U)	7	(<1U)	(<1U)	(<1U)	(<20U)	(<1U)	(<1U)	20	(<1U)	70	70
Methylene Chloride	(<1U)	(<1U)	1B	1B	0.7J	(<1U)	2	**27B**	(<1U)	1B	(<1U)	1	48	5
Trichloroethene	(<1U)	(<1U)	(<1U)	**20**	(<1U)	(<1U)	(<1U)	**720**	(<1U)	(<1U)	**18**	(<1U)	5	5
Tetrachloroethene	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	**15J**	(<1U)	(<1U)	**26**	(<1U)	3	5
1,1-Dichloroethene	(<1U)	(<1U)	(<1U)	2	(<1U)	(<1U)	(<1U)	**330**	(<1U)	(<1U)	0.5J	(<1U)	7	7
1,1-Dichloroethane	(<1U)	(<1U)	(<1U)	4	(<1U)	(<1U)	(<1U)	**79**	1	(<1U)	(<1U)	(<1U)	70	---
Total Xylenes	(<1U)	(<1U)	(<1U)	(<1U)	6	(<1U)	(<1U)	(<20U)	(<1U)	(<1U)	(<1U)	(<1U)	600	10,000
Ethylbenzene	(<1U)	(<1U)	(<1U)	(<1U)	0.9J	(<1U)	(<1U)	(<20U)	(<1U)	(<1U)	(<1U)	(<1U)	700	700
Chloroform	(<1U)	(<1U)	(<1U)	7	(<1U)	(<1U)	(<1U)	(<20U)	(<1U)	(<1U)	(<1U)	(<1U)	---	100
Benzene	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<20U)	(<1U)	(<1U)	(<1U)	(<1U)	5	5
1,2-Dichloroethane	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	**12J**	(<1U)	(<1U)	(<1U)	(<1U)	5	5
2-Butanone	12	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<20U)	(<1U)	3J	(<1U)	(<1U)	---	---
Bromodichloromethane	(<1U)	(<1U)	(<1U)	0.8J	(<1U)	(<1U)	(<1U)	(<20U)	(<1U)	(<1U)	(<1U)	(<1U)	---	---
Acetone	3JB	3J	(<5U)	1B	2J	(<5U)	(<5U)	(<100U)	3JB	3JB	(<5U)	(<5U)	---	---
Total VOC[d]	12	0	0	80	7	0	0	3,556	1	3	71	0	NA	NA

Analyte	MW-331	MW-332	MW-333	MW-334	MW-1104	MW-NASB-212	P-106	P-111	P-132				
Well/Piezometer Depth[a]	Deep/ Interior Plume	Shallow/ Interior Plume	Deep/ Interior Plume	Deep/ Interior Plume	Shallow/ Perimeter	Deep/ Interior Plume	Deep/ Interior Plume	Shallow/ Interior Plume	Shallow/ Sentinel	TRIP-1	TRIP-2	MEG[b]	MCL[c]
VOLATILE ORGANIC COMPOUNDS BY EPA METHOD 8260 (Fg/L)													
1,1,1-Trichloroethane	**350D**	12	(<1U)	(<1U)	15	(<1U)	**2,000D**	(<1U)	(<1U)	(<1U)	(<1U)	200	200
Total 1,2-Dichloroethene	5	(<1U)	(<1U)	(<1U)	10	2	19	(<1U)	(<1U)	(<1U)	(<1U)	70	70
Methylene Chloride	1	0.6JB	0.6JB	2	1	3B	(<1U)	(<1U)	0.6JB	1B	2	48	5
Trichloroethene	**140**	2	(<1U)	(<1U)	**6**	**18**	**540D**	(<1U)	(<1U)	(<1U)	(<1U)	5	5
Tetrachloroethene	**6**	(<1U)	(<1U)	(<1U)	(<1U)	0.8J	**12**	(<1U)	(<1U)	(<1U)	(<1U)	3	5
1,1-Dichloroethene	**43**	0.8J	0.7J	(<1U)	(<1U)	(<1U)	**190D**	(<1U)	(<1U)	(<1U)	(<1U)	7	7
1,1-Dichloroethane	17	(<1U)	1	(<1U)	5	(<1U)	54	(<1U)	(<1U)	(<1U)	(<1U)	70	---
Total Xylenes	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	600	10,000
Ethylbenzene	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	700	700
Chloroform	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	1	(<1U)	(<1U)	(<1U)	(<1U)	---	100
Benzene	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	2	(<1U)	(<1U)	(<1U)	(<1U)	5	5
1,2-Dichloroethane	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	5	5
2-Butanone	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	4J	(<1U)	(<1U)	(<1U)	3J	(<1U)	---	---
Bromodichloromethane	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	---	---
Acetone	4J	(<5U)	(<5U)	(<5U)	(<5U)	(<5U)	(<5U)	(<5U)	(<5U)	3JB	3J	---	---
Total VOC[d]	561	15	2	0	36	25	2,818	0	0	NA	NA	NA	NA

NOTE: TRIP = Trip blank.

TABLE 11 SUMMARY OF ANALYTICAL RESULTS FOR WATER SAMPLES COLLECTED ON 9 APRIL 1999 FROM THE GROUND-WATER EXTRACTION WELLS AND TREATMENT SYSTEM

Analyte	EW-1	EW-2	EW-2A	EW-4	EW-5	TRIP-2
VOLATILE ORGANIC COMPOUNDS BY EPA METHOD 8260 (Fg/L)						
Benzene	(<1U)	(<1U)	0.9J	(<1U)	(<1U)	(<1U)
1,1-Dichloroethane	1	(<1U)	29	22	14	(<1U)
1,1-Dichloroethene	4	1	130	34	17	(<1U)
Total 1,2-Dichloroethene	15	5	9	67	11	(<1U)
Tetrachloroethene	7	20	12	3	0.8J	(<1U)
1,1,1-Trichloroethane	36	10	1,200D	380D	130	(<1U)
Trichloroethene	38	8	350D	150	56	(<1U)
Methylene Chloride	0.7JB	0.7JB	4B	1B	0.8JB	2
1,2-Dichloroethane	(<1U)	(<1U)	3	0.7J	0.6J	(<1U)
1,1,2-Trichloroethane	(<1U)	(<1U)	1	(<1U)	(<1U)	(<1U)
Acetone	(<5U)	(<5U)	(<5U)	(<5U)	(<5U)	3J
Chloroform	(<1U)	(<1U)	0.6J	3	(<1U)	(<1U)
Total VOC[a]	101	44	1,736	660	229	NA

Analyte	Eastern Plume Influent	Combined Effluent	Combined Effluent DUP	Discharge Limit[b]
VOLATILE ORGANIC COMPOUNDS BY EPA METHOD 8260 (Fg/L)				
Benzene	(<1U)	(<1U)	(<1U)	---
1,1-Dichloroethane	16	3	4	94
1,1-Dichloroethene	45	(<1U)	(<1U)	7
Total 1,2-Dichloroethene	22	(<1U)	(<1U)	70
Tetrachloroethene	13	(<1U)	(<1U)	5
1,1,1-Trichloroethane	390D	280D	320D	750
Trichloroethene	140	(<1U)	(<1U)	5
Methylene chloride	1B	0.8JB	0.8JB	5
1,2-Dichloroethane	1	(<1U)	(<1U)	---
1,1,2-Trichloroethane	(<1U)	(<1U)	(<1U)	5
Acetone	(<5U)	(<5U)	(<5U)	---
Chloroform	0.9J	0.7J	0.7J	---

(a) Total volatile organic compound calculation does not include common laboratory contaminants such as methylene chloride and acetone. Values are rounded to closest whole number.

(b) Ground-water treatment plant discharge limits taken from *Agreement to Accept Treated Ground Water*, dated December 1994, and prepared by the Brunswick Municipal Sewer District.

NOTE: TRIP = Trip blank. Samples associated with TRIP-2 were analyzed under a separate sample delivery group shipped on the same day.
U = Not detected. Sample quantitation limits are shown as (<____U).
B = Analyte detected in associated method blank.
J = Estimated concentration below detection limit.
D = Analysis at a secondary dilution factor.
NA = Not applicable.
Only those analytes detected in at least one of the samples, and the chemicals of concern listed in the Draft Long-Term Monitoring Plan (EA 1998), are shown on this table.
Refer to Data Quality Review section (Appendix B) for listing of Method Detection Limits for referenced analytical methods.
Dashes (---) indicate no discharge limit applicable to this compound/analyte.

TABLE 12 SUMMARY OF WATER QUALITY INDICATOR PARAMETERS MEASURED IN SURFACE WATER AND SEEP SAMPLES COLLECTED ON 13 APRIL 1999 AT SITES 1 AND 3

Sample Designation	pH	Temperature (°C)	Conductivity (Fmhos/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	Eh (mV)
Surface Water						
SW-4	7.34	7.42	100	12.22	3	319
SW-7	7.18	7.23	102	12.80	4	322
SW-8	7.27	7.38	101	12.77	3	320
SW-9	7.30	7.29	100	12.80	3	320
SW-15[(a)]			No data			
SW-16[(a)]			No data			
Seep						
SEEP-1	6.81	7.42	529	5.51	4	336
SEEP-3	6.73	6.57	418	8.76	>1,000	318
SEEP-4	6.64	8.10	629	7.89	4	342
SEEP-5	6.87	10.76	546	6.66	37	327

(a) Locations sampled under separate surface water program; water quality indicator parameters not collected.

NOTE: NTU = Nephelometric turbidity unit.

TABLE 13 SUMMARY OF WATER QUALITY INDICATOR PARAMETERS MEASURED IN SURFACE WATER COLLECTED ON 13 AND 21 APRIL 1999 AT EASTERN PLUME

Sample Designation	pH	Temperature (°C)	Conductivity (Fmhos/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	Eh (mV)
Surface Water						
SW-10	7.35	6.46	95	12.42	4	324
SW-11	7.44	5.85	96	12.12	3	308
SW-12	7.80	6.28	94	11.90	6	278
SW-13	7.35	8.54	84	10.94	13	313
SW-14	7.42	8.09	82	10.79	6	309
Seep						
SEEP-6	6.70	8.72	27	10.37	15	112
SEEP-7	6.66	12.22	43	7.40	24	70
SEEP-8	6.66	13.34	29	7.19	12	89

NOTE: NTU = Nephelometric turbidity unit.

TABLE 14 SUMMARY OF ANALYTICAL RESULTS FOR SURFACE WATER SAMPLES COLLECTED ON 13 APRIL 1999 AT SITES 1 AND 3

Analyte	SW-4	SW-7	SW-8	SW-9	SW-9 DUP	SW-15[a]	SW-16[a]	TRIP-3	QS-2	QD-1
VOLATILE ORGANIC COMPOUNDS BY EPA METHOD 8260 (Fg/L)										
Acetone	(<5U)	(<5U)	(<5U)	(<5U)	(<5U)	NR	NR	(<5U)	2J	(<5U)
Methylene chloride	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	NR	NR	2B	4B	1B
TARGET ANALYTE LIST ELEMENTS BY EPA 6000/7000/9000 SERIES METHODS (Fg/L)										
Aluminum	108	88.4B*	69.3B*	(<20.93U)	49.5B*	110	130	NR	(<20.93U)	(<10.76U)
Antimony	2.6B*	(<1.81U)	(<1.81U)	(<1.81U)	(<1.81U)	(<5U)	(<5U)	NR	(<1.81U)	(<1.81U)
Barium	23.8	23.5	22.6	21.5	22.0	30	20	NR	(<0.12U)	(<0.48U)
Cadmium	0.42B*	(<0.26U)	(<0.26U)	(<0.26U)	0.28B*	(<1U)	(<1U)	NR	(<0.26U)	2.6B*
Calcium	6,360	6,590	6,370	6,350	6,180	8,500	7,800	NR	37.0B*	34.1B*
Chromium	2.0B*	3.9B*	0.84B*	(<0.59U)	(<0.59U)	(<10U)	(<10U)	NR	1.3B*	(<4.31U)
Cobalt	(<0.64U)	1.4B*	(<0.64U)	(<0.64U)	0.96B*	(<12U)	(<12U)	NR	(<0.64U)	(<4.45U)
Copper	2.8B*	2.9B*	2.0B*	3.0B*	2.8B*	(<10U)	(<10U)	NR	2.1B*	(<1.62U)
Iron	549	576	514	450	477	170	400	NR	41.3B*	4.7B*
Lead	1.6B*	2.6B*	1.1B*	2.6B*	(<1.09U)	(<2U)	(<2U)	NR	1.3B*	2.3B*
Magnesium	1,450	1,500	1,460	1,440	1,440	1,900	1,600	NR	11.8B*	(<17.16U)
Manganese	121	134	130	132	129	50	80	NR	0.58B*	(<0.97U)
Mercury	0.03B*	0.03B*	0.02B*	0.14B*	0.03B*	(<0.2U)	(<0.2U)	NR	(<0.02U)	(<0.02U)
Nickel	2.5B*	2.0B*	1.1B*	(<0.85U)	1.8B*	(<10U)	(<10U)	NR	(<0.85U)	(<13.21U)
Potassium	1,680	1,650	1,670	1,700	1,640	2,100	1,900	NR	(<449.54U)	(<449.54U)
Silver	1.0B*	2.6B*	1.7B*	(<0.69U)	1.0B*	(<10U)	(<10U)	NR	1.8B*	(<2.54U)
Sodium	16,300	16,500	15,900	15,500	15,300	20,000	16,000	NR	82.8B*	69.9B*
Vanadium	(<0.62U)	(<0.62U)	(<0.62U)	(<0.62U)	(<0.62U)	(<12U)	(<12U)	NR	(<0.62U)	(<3.58U)
Zinc	12.8B*	7.0B*	6.1B*	4.9B*	6.1B*	20	20	NR	1.1B*	(<0.48U)

(a) Samples were taken by Naval Air Station, Brunswick personnel during a separate sampling event.

NOTE:
- TRIP = Trip blank. Samples associated with TRIP-3 were analyzed with a separate sample delivery group shipped on the same day.
- QS = Equipment rinsate blank.
- QD = Source water blank. Samples associated with QD-1 were analyzed with a separate sample delivery group shipped on the same day.
- U = Not detected. Sample quantitation limits are shown as (<__U).
- J = Estimated concentration below detection limit.
- NR = Analysis not required.
- B = Analyte detected in associated method blank.
- B* = Analyte concentration is between the Instrument Limits and the Contract Required Detection Limit.

Only those analytes detected in at least one of the samples, and chemicals of concern listed in the Draft Long-Term Monitoring Plan (EA 1998), are shown on this table.

Refer to Data Quality Review section (Appendix B) for listing of Method Detection Limits for referenced analytical methods.

TABLE 15 SUMMARY OF ANALYTICAL RESULTS FOR SURFACE WATER SAMPLES COLLECTED ON 13 APRIL 1999 AT EASTERN PLUME

Analyte	SW-10	SW-11	SW-12	SW-12 DUP	SW-13	SW-14	TRIP-3	QS-1	QD-1
VOLATILE ORGANIC COMPOUNDS BY EPA METHOD 8260 (Fg/L)									
Methylene Chloride	(<1U)	(<1U)	0.5JB	(<1U)	(<1U)	(<1U)	2B	0.9JB	1B
Acetone	(<5U)	(<5U)	(<5U)	(<5U)	(<5U)	2J	(<5U)	(<5U)	(<5U)

NOTE:
TRIP = Trip blank. Samples associated with TRIP-3 were analyzed under a separate sample delivery group shipped on the same day.
QS = Equipment rinsate blank.
QD = Source water blank.
U = Not detected. Sample quantitation limits are shown as (<____U).
B = Analyte detected in associated method blank.
J = Estimated concentration below detection limit.
Only those analytes detected in at least one of the samples, and chemicals of concern listed in the Draft Long-Term Monitoring Plan (EA 1998), are shown on this table.
Refer to Data Quality Review section (Appendix B) for listing of Method Detection Limits for referenced analytical methods.

TABLE 16 SUMMARY OF ANALYTICAL RESULTS FOR LEACHATE SEEP SAMPLES COLLECTED ON 13 APRIL 1999 AT SITES 1 AND 3

Analyte	SEEP-1	SEEP-3	SEEP-4	SEEP-5	TRIP-3	QS-2	QD-1
VOLATILE ORGANIC COMPOUNDS BY EPA METHOD 8260 (Fg/L)							
1,1-Dichloroethane	(<1U)	2	14	0.6J	(<1U)	(<1U)	(<1U)
Trichloroethene	(<1U)	0.6J	3	(<1U)	(<1U)	(<1U)	(<1U)
1,1,2,2-Tetrachloroethane	2	12	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)
Ethylbenzene	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)
Total Xylenes	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)
Methylene Chloride	(<1U)	0.5JB	(<1U)	(<1U)	2B	4B	1B
1,1,1-Trichloroethane	2	19	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)
1,2-Dichloroethane	(<1U)	(<1U)	0.5J	0.6J	(<1U)	(<1U)	(<1U)
1,2-Dichlorobenzene	(<1U)	(<1U)	(<1U)	1	(<1U)	(<1U)	(<1U)
1,4-Dichlorobenzene	(<1U)	(<1U)	1	2	(<1U)	(<1U)	(<1U)
1,1,2-Trichloroethane	(<1U)	0.8J	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)
1,1-Dichloroethene	(<1U)	(<1U)	0.7J	(<1U)	(<1U)	(<1U)	(<1U)
Acetone	(<5U)	4J	(<5U)	3J	(<5U)	2J	(<5U)
Vinyl Chloride	(<2U)	(<2U)	8	(<2U)	(<2U)	(<2U)	(<2U)
Total 1,2-Dichloroethene	(<1U)	(<1U)	29	(<1U)	(<1U)	(<1U)	(<1U)

NOTE: TRIP = Trip blank. Samples associated with TRIP-3 were analyzed under a separate sample delivery group shipped on the same day.
QS = Equipment rinsate blank.
QD = Source water blank. Samples associated with QD-001 were analyzed under a separate sample delivery group shipped on the same day.
U = Not detected. Sample quantitation limits are shown as (<___U).
B = Compound detected in associated method blank.
J = Estimated concentration below detection limit.
SEEP-2 was dry, therefore, no aqueous sample was collected.
Only those analytes detected in at least one of the samples and the chemicals of concern listed in the Draft Long-Term Monitoring Plan (EA 1998) are shown on this table.

Analyte	SEEP-1	SEEP-3	SEEP-4	SEEP-5	TRIP-3	QS-2	QD-1
TARGET ANALYTE LIST ELEMENTS BY EPA SERIES 6000/7000 METHODS (Fg/L)							
Aluminum	77.3B*	9,360	(<20.93U)	326	NR	(<20.93U)	(<10.76U)
Antimony	(<1.81U)	26.4B*	2.2B*	3.2B*	NR	(<1.81U)	(<1.81U)
Arsenic	(<2.07U)	182	(<2.07U)	612	NR	(<2.07U)	(<2.07U)
Barium	47.0	1,350	51.9	85.7	NR	(<0.12U)	(<0.48U)
Beryllium	(<0.21U)	4.1B*	0.22B*	0.22B*	NR	(<0.21U)	(<0.33U)
Cadmium	(<0.26U)	(<1.30U)	0.37B*	0.54B*	NR	(<0.26U)	2.6B*
Calcium	106,000	130,000	104,000	60,600	NR	37.0B*	34.1B*
Chromium	(<0.59U)	44.4	1.3B*	(<0.59U)	NR	1.3B*	(<4.31U)
Cobalt	8.8B*	105	4.0B*	3.0B*	NR	(<0.64U)	(<4.45U)
Copper	(<0.55U)	13.8B*	2.7B*	9.3B*	NR	2.1B*	(<1.62U)
Iron	1,720	1,130,000	7,520	146,000	NR	41.3B*	4.7B*
Lead	(<1.09U)	115	(<1.09U)	1.1B*	NR	1.3B*	2.3B*
Magnesium	8,280	13,800	16,100	19,500	NR	11.8B*	(<17.16U)
Manganese	118	100,000	735	1,130	NR	0.58B*	(<0.97U)
Mercury	0.05B*	3.1	(<0.02U)	0.03B*	NR	(<0.02U)	(<0.02U)
Nickel	9.8B*	44.1	2.6B*	(<0.85U)	NR	(<0.85U)	(<13.21U)
Potassium	7,910	5,190	10,900	4,130	NR	(<449.54	(<449.54U)
Selenium	2.9B*	32.8B*	(<2.57U)	(<2.57U)	NR	(<2.57U)	(<2.57U)
Silver	(<0.69U)	12.7B*	1.8B*	0.82B*	NR	1.8B*	(<2.54U)
Sodium	16,200	20,400	39,700	30,700	NR	82.8B*	69.9B*
Thallium	(<4.49U)	(<22.45U)	(<4.49U)	(<4.49U)	NR	(<4.49U)	(<4.49U)
Vanadium	(<0.62U)	56.6B*	(<0.62U)	2.5B*	NR	(<0.62U)	(<3.58U)
Zinc	13.4B*	35.0	3.3B*	12.0B*	NR	1.1B*	(<0.48U)

NOTE: B* = Analyte concentration is between the Instrument Detection Limit and the Contract Required Detection Limit.
NR = Analysis not required.

TABLE 17 SUMMARY OF ANALYTICAL RESULTS FOR SEEP SAMPLES COLLECTED ON 21 APRIL 1999 AT EASTERN PLUME

Analyte	SEEP-6	SEEP-7	SEEP-7 DUP	SEEP-8	TRIP-5	QS-1	QD-1
VOLATILE ORGANIC COMPOUNDS BY EPA METHOD 8260 (Fg/L)							
Methylene Chloride	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	0.9JB	1B
Acetone	(<5U)	(<5U)	(<5U)	3J	(<5U)	(<5U)	(<5U)

NOTE:
TRIP = Trip blank.
QS = Equipment rinsate blank.
QD = Source water blank.
U = Not detected. Sample quantitation limits are shown as (<____U).
B = Analyte detected in associated method blank.
J = Estimated concentration below detection limit.
Only those analytes detected in at least one of the samples are shown on this table.
Refer to Data Quality Review section (Appendix B) for listing of Method Detection Limits for referenced analytical methods.
The locations of SEEP-6, SEEP-7, and SEEP-8 have not been surveyed, and approximate locations are shown on Figure 4.

TABLE 18 SUMMARY OF ANALYTICAL RESULTS FOR LEACHATE SEDIMENT SAMPLES COLLECTED ON 13 APRIL 1999 AT SITES 1 AND 3

Analyte	LT-1[a]	LT-3[a]	LT-4	LT-4 DUP	LT-5	TRIP-3 (Fg/L)	QS-2 (Fg/L)	QD-1 (Fg/L)
VOLATILE ORGANIC COMPOUNDS BY EPA METHOD 8260 (mg/kg)								
Methylene chloride	46B	38B	31B	22B	24B	2B	4B	1B
1,1-Dichloroethane	18	60	33	28	(<4U)	(<1U)	(<1U)	(<1U)
Total 1,2-dichloroethene	5J	(<6U)	(<5U)	(<4U)	(<4U)	(<1U)	(<1U)	(<1U)
1,2-Dichlorobenzene	(<9U)	29	19	14	2J	(<1U)	(<1U)	(<1U)
1,3-Dichlorobenzene	(<9U)	8	(<5U)	(<4U)	(<4U)	(<1U)	(<1U)	(<1U)
1,4-Dichlorobenzene	7J	45	23	14	9	(<1U)	(<1U)	(<1U)
Trichloroethene	(<9U)	22	14	10	(<4U)	(<1U)	(<1U)	(<1U)
1,1,2,2-Tetrachloroethane	15	460	(<5U)	(<4U)	(<4U)	(<1U)	(<1U)	(<1U)
Chloroform	10B	8B	6B	5B	4B	(<1U)	(<1U)	(<1U)
1,1,1-Trichloroethane	(<9U)	310	(<5U)	(<4U)	(<4U)	(<1U)	(<1U)	(<1U)
Tetrachloroethene	12	67	(<5U)	(<4U)	(<4U)	(<1U)	(<1U)	(<1U)
Chlorobenzene	(<9U)	10	3J	(<4U)	(<4U)	(<1U)	(<1U)	(<1U)
1,2-Dichloroethane	9	(<6U)	(<5U)	(<4U)	(<4U)	(<1U)	(<1U)	(<1U)
Acetone	(<46U)	(<29U)	(<24U)	(<19U)	(<20U)	(<5U)	2J	(<5U)
1,1,2-Trichloroethane	21	19	(<5U)	(<4U)	(<4U)	(<1U)	(<1U)	(<1U)

(a) Reanalysis due to low surrogate recovery.

NOTE: TRIP = Trip blank. Samples associated with TRIP-3 were analyzed under a separate sample delivery group shipped on the same day.
QS = Equipment rinsate blank. Samples associated with QS-2 were analyzed under a separate sample delivery group shipped on the same day.
QD = Source water blank. Samples associated with QD-1 were analyzed under a separate sample delivery group shipped on the same day.
J = Estimated concentration below detection limit.
B = Compound detected in associated method blank.
U = Not detected. Sample quantitation limits are shown as (<____U).
D = Analysis at a secondary dilution factor.
Only those analytes detected in at least one of the samples, and chemicals of concern listed in the Draft Long-Term Monitoring Plan (EA 1998), are shown on this table.

Analyte	LT-1[a]	LT-3[a]	LT-4	LT-4 DUP	LT-5	TRIP-3 (Fg/L)	QS-2 (Fg/L)	QD-1 (Fg/L)
TARGET ANALYTE LIST ELEMENTS BY EPA SERIES 6000/7000 METHODS (mg/kg)								
Aluminum	1,980	3,860	432	590	2,200	NR	(<20.93U)	(<10.76U)
Arsenic	8.2	28.0	18.3	25.3	2,580	NR	(<2.07U)	(<2.07U)
Barium	133	233	669	751	92.8	NR	(<0.12U)	(<0.48U)
Beryllium	1.5B*	0.70B*	(<0.30U)	(<0.28U)	(<0.27U)	NR	(<0.21U)	(<0.33U)
Cadmium	1.7B*	1.9B*	(<0.38U)	(<0.35U)	(<0.33U)	NR	(<0.26U)	2.6B*
Calcium	12,900	11,200	12,200	11,300	5,680	NR	37.0B*	34.1B*
Chromium	1.7B*	38.4	(<0.85U)	(<0.79U)	(<0.75U)	NR	1.3B*	(<4.31U)
Cobalt	93.7B*	24.6	54.9	58.8	17.6B*	NR	(<0.64U)	(<4.45U)
Copper	9.2B*	6.8B*	(<0.79U)	(<0.74U)	(<0.70U)	NR	2.1B*	(<1.62U)
Iron	159,000	190,000	478,000	490,000	426,000	NR	41.3B*	4.7B*
Lead	21.1	38.5	11.0	14.1	12.4	NR	1.3B*	2.3B*
Magnesium	553	955	419	364	700	NR	11.8B*	(<17.16U)
Manganese	2,800	14,900	30,700	39,000	669	NR	0.58B*	(<0.97U)
Mercury	0.34	1.5	0.30	0.18	0.1B*	NR	(<0.02U)	(<0.02U)
Nickel	71.2	17.0	12.0B*	12.4B*	10.2B*	NR	(<0.85U)	(<13.21U)
Potassium	(<1,596.17U)	(<1,741.21	940B*	922B*	(<573.08U)	NR	(<449.54U)	(<449.54U)
Selenium	(<1.83U)	9.0	14.9	23.5	(<3.28U)	NR	(<2.57U)	(<2.57U)
Silver	(<0.49U)	1.6B*	3.6B*	5.1B*	(<0.88U)	NR	1.8B*	(<2.54U)
Sodium	272B*	262B*	302	279	171	NR	82.8B*	69.9B*
Thallium	4.3B*	5.0B*	14.5B*	16.2B*	12.8B*	NR	(<4.49U)	(<4.49U)
Vanadium	17.7B*	18.3	6.6B*	8.6B*	14.0B*	NR	(<0.62U)	(<3.58U)
Zinc	93.5	25.0	22.9B*	22.9B*	18.1B*	NR	1.1B*	(<0.48U)

NOTE: B* = Analyte concentration is between the Instrument Detection Limit and the Contract Required Detection Limit.
NR = Analysis not required.

TABLE 19 SUMMARY OF LANDFILL GAS MONITORING CONDUCTED ON 20 APRIL 1999 AT SITES 1 AND 3

Gas Vent Designation	Depth to Bottom (ft)	Pressure (in. H_g)	Percent Methane	Percent Oxygen	Percent Carbon Dioxide
Gas Probes					
G-4	7.26	29.7	0.1	19.2	1.4
G-5	7.21	29.7	0.1	18.9	3.3
G-6	7.22	29.7	0.2	20.1	0.3
Gas Vents					
GV-1	6.72	29.7	0.0	20.8	0.0
GV-2	4.76	29.7	0.0	21.0	0.0
GV-3	4.52	29.7	0.0	21.0	0.0
GV-4	4.47	29.7	0.0	21.0	0.0
GV-5	4.52	29.7	0.0	21.1	0.0
GV-6	4.59	29.7	0.0	20.9	0.0
GV-7	4.63	29.7	0.0	21.1	0.0
GV-8	4.57	29.7	0.0	21.2	0.0
GV-9	4.59	29.7	0.1	21.1	0.0
GV-10	4.60	29.7	0.0	21.1	0.0
GV-11	4.54	29.7	0.0	21.2	0.0
GV-12	4.56	29.7	0.0	20.7	0.0
GV-13	4.56	29.7	0.1	20.4	0.6
GV-14	4.56	29.7	0.0	20.9	0.0

NOTE: Depth to bottom measured from top of polyvinyl chloride coupling.

TABLE 20 SUMMARY OF ANALYTICAL DATA QUALITY REVIEW

Sample Location	Findings of Laboratory Data Quality Review
GROUND WATER	
MW-1104	Result for methylene chloride is a false-positive.
MW-334	Result for methylene chloride is a false-positive.
MW-330A	Result for methylene chloride is a false-positive.
MW-309B	Result for methylene chloride is a false-positive.
MW-330A DUP	Result for methylene chloride is a false-positive.
MW-202A	Results for trichloroethene, tetrachloroethene, and iron are considered estimates of the reported values. Result for methylene chloride is a false-positive.
MW-202A DUP	Results for trichloroethene, tetrachloroethene, and iron are considered estimates of the reported values. Result for methylene chloride is a false-positive.
MW-203	Result for methylene chloride is a false-positive.
MW-218	Result for methylene chloride is a false-positive.
MW-219	Result for methylene chloride is a false-positive.
MW-240	Result for methylene chloride is a false-positive.
MW-225A	Result for methylene chloride is a false-positive.
MW-231A	Results for methylene chloride and acetone are false-positives. The result for 2-butanone is considered an estimate of the reported values.
MW-231A DUP	Results for methylene chloride and acetone are false-positives. The result for 2-butanone is considered an estimate of the reported values.
MW-305	Result for methylene chloride is a false-positive.
MW-306	Results for methylene chloride and acetone are false-positives.
MW-318	Results for methylene chloride and acetone are false-positives.
MW-332	Result for methylene chloride is a false-positive.
MW-333	Result for methylene chloride is a false-positive.
MW-NASB-212	Result for methylene chloride is a false-positive.
P-132	Result for methylene chloride is a false-positive.
MW-303	Result for acetone is a false-positive.
MW-231B	Result for acetone is a false-positive.
MW-313	Result for acetone is a false-positive.
MW-308	Results for methylene chloride and acetone are false-positives.
MW-331	Results for methylene chloride and acetone are false-positives.
TREATMENT PLANT SAMPLES	
EW-1	Result for methylene chloride is a false-positive.
EW-2	Result for methylene chloride is a false-positive.
EW-2A	Result for methylene chloride is a false-positive.
EW-3	Result for methylene chloride is a false-positive.
EW-4	Result for methylene chloride is a false-positive.
EW-5	Result for methylene chloride is a false-positive.
Eastern Plume Influent	Result for methylene chloride is a false-positive.
Combined Effluent	Result for methylene chloride is a false-positive.
Combined Effluent DUP	Result for methylene chloride is a false-positive.

Sample Location	Findings of Laboratory Data Quality Review
SURFACE WATER	
SW-4	Results for lead, cadmium, chromium, copper, and silver are false-positives.
SW-7	Results for lead, chromium, copper, and silver are false-positives.
SW-8	Results for lead, chromium, copper, and silver are false-positives.
SW-9	Results for lead, copper, and zinc are false-positives.
SW-9 DUP	Results for cadmium, copper, and silver are false-positives.
SW-12	Result for methylene chloride is a false-positive.
LEACHATE STATION SEEP	
SEEP-3	Result for methylene chloride and acetone are false-positives.
SEEP-4	Results for cadmium, chromium, copper, silver, and zinc are false-positives.
SEEP-5	Results for lead, cadmium, copper, acetone, and silver are false-positives.
LEACHATE STATION SEDIMENT	
LT-1	Results for aluminum and antimony are considered estimates of the reported values. Results for copper, chromium, sodium, and cadmium are false-positives.
LT-3	Results for aluminum and antimony are considered estimates of the reported values. Results for silver, copper, sodium, and cadmium are false-positives.
LT-4	Results for aluminum and antimony are considered estimates of the reported values. Results for silver, sodium, and lead are false-positives.
LT-4 DUP	Results for aluminum and antimony are considered estimates of the reported values. Results for silver, sodium, and chloroform are false-positives.
LT-5	Results for aluminum and antimony are considered estimates of the reported values. Results for chloroform and sodium are false-positives.
QUALITY ASSURANCE/QUALITY CONTROL SAMPLES	
QD-1	Result for methylene chloride is a false-positive.
QS-1	Result for methylene chloride is a false-positive.
QS-2	Result for methylene chloride is a false-positive.
TRIP-1	Results for methylene chloride and acetone are false-positives.
TRIP-3	Result for methylene chloride is a false-positive.

REFERENCES

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Appendix A

Field Monitoring and Sampling Forms

A.1 Field Record of Well Gauging Forms
A.2 Field Record of Well Gauging, Purging, and Sampling Forms
A.3 Field Record of Surface Water and Sediment Sampling Forms
A.4 Field Record of Seep Sampling Forms
A.5 Field Record of Landfill Gas Monitoring

Appendix A.1

Field Record of Well Gauging Forms

EA ENGINEERING, SCIENCE, AND TECHNOLOGY, INC.

FIELD RECORD OF WELL GAUGING

Project Name: LTMP Bimonthly Gauging January FY99 Sites 1-3	Project No: 29600.47.7220	Date: 5 January 1999
Weather/Temperature: clear, sunny, cold (0°-20°)		
EA Personnel: S. Chase, B.P. Andersen	Equipment: Slope indicator, TVA-1000	

Well No.	Labeled/ Capped	Well Locked	VOCs Concentration (ppm) Air Ambient	VOCs Concentration (ppm) Well Mouth	Casing/Seal Condition	Protective Casing Elevation (ft MSL)	PVC Casing Elevation (ft MSL)	Depth to Water (ft)	Measured Well Depth (ft)	Water Table Elevation (ft MSL)
EP-16	Y / Y	Y	0	0	GOOD		58.92	34.67	58.77	24.25
MW-216A	Y Y	Y	0	0	GOOD		71.17	37.73	47.71	33.44
MW-211A	Y Y	Y	0	0	GOOD		65.59	24.34	142.76	41.25
MW-211B	Y Y	Y	0	0	GOOD		65.44	30.60	36.50	34.84
MW-210I	Y Y	Y	0	0	GOOD		61.05	12.55	30.00	48.50
MW-201R	Y Y	Y	0	0	GOOD		58.88	12.25	49.08	46.63
MW-233R	Y Y	Y	0	0	GOOD		63.94	30.77	38.71	33.17
MW-215R	Y Y	Y	0	0	GOOD		62.26	29.52	59.00	32.74
MW-202A	Y Y	Y	0	0	GOOD		52.40	20.79	31.09	31.61
MW-202B	Y Y	Y	0	0	GOOD		53.04	DRY	18.12	~~53.04~~ DRY
MW-203	Y Y	Y	0	0	GOOD		52.75	31.77	42.04	20.98
MW-218	Y Y	Y	0	0	GOOD		54.16	34.16	53.54	20.00
MW-204	Y Y	Y	0	0	GOOD		50.50	30.15	37.18	20.35
MW-219	Y Y	Y	0	0	GOOD		51.87	30.74	71.82	21.13
EW-6	Y Y	Y	0	0	GOOD		57.74	Frozen	39.05	—
EW-7	Y Y	Y	0	0	GOOD		51.13	27.31	38.90	23.82
MW-234R	Y Y	Y	0	0	GOOD		68.55	35.35	59.52	33.20

NOTE: MSL = Mean sea level; PVC = Polyvinyl chloride; VOC = Volatile organic compounds.

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EA ENGINEERING, SCIENCE, AND TECHNOLOGY, INC.

FIELD RECORD OF WELL GAUGING

Project Name: LTMP Bimonthly Gauging Jan 1999 Sit-013	Project No: 29600.47.7220	Date: 5 January 98
Weather/Temperature: Clear, Sunny, Cold (0°-10°)		
EA Personnel: S.Y. Chase, B.D. Andersen	Equipment: Slope indicator TVA-1000	

Well No.	Labeled/ Capped	Well Locked	VOCs Concentration (ppm) Air Ambient	VOCs Concentration (ppm) Well Mouth	Casing/Seal Condition	Protective Casing Elevation (ft MSL)	PVC Casing Elevation (ft MSL)	Depth to Water (ft)	Measured Well Depth (ft)	Water Table Elevation (ft MSL)
MW-232A	Y Y	Y	0	0	Good		71.18	38.11	54.74	33.07
MW-217B	Y Y	Y	0	0	Good		61.25	26.63	32.90	34.62
MW-217A	Y Y	Y	0	0	Good		61.78	29.35	47.40	32.43
MW-220	Y Y	Y	0	0	Good		47.20	27.85	51.50	19.35
MW-210A	Y Y	Y	0	0	Good		52.17	18.82	106.32	33.35
MW-210B	Y Y	Y	0	0	Good		54.72	30.68	40.50	24.04
EP-20	Y Y	Y	0	0	Good		69.55	36.00	47.25	33.55
EP-19	Y Y	Y	0	0	Good		68.22	34.88	47.30	33.34
EP-18	Y Y	Y	0	0	Good		68.58	35.28	38.10	33.30
EP-17	Y Y	Y	0	0	Good		69.73	36.42	42.85	33.31
MW-210R	Y Y	Y	0	0	Good		55.90	20.86	112.35	35.04
MW-240	Y Y	Y	0	0	Good		52.21	31.40	42.60	20.81

NOTE: MSL = Mean sea level; PVC = Polyvinyl chloride; VOC = Volatile organic compounds.

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EA ENGINEERING, SCIENCE, AND TECHNOLOGY, INC.

FIELD RECORD OF WELL GAUGING

Project Name: LTMP Bimonthly Gauging January 1999 Eastern Plume	Project No: 29600.47.7220	Date: 5-7 January 99
Weather/Temperature: Cold (-5-0°) clear, Sun		
EA Personnel: SYC, BDA	Equipment: Slope indicator, TVA-1000	

Well No.	Labeled/ Capped	Well Locked	VOCs Concentration (ppm) Air Ambient	VOCs Concentration (ppm) Well Mouth	Casing/Seal Condition	Protective Casing Elevation (ft MSL)	PVC Casing Elevation (ft MSL)	Depth to Water (ft)	Measured Well Depth (ft)	Water Table Elevation (ft MSL)
MW-310	Y Y	Y	0	0	Good		53.39	29.07	73.25	24.32
MW-206A	Y Y	Y	0	0	Good		43.02	20.07	74.36	22.95
MW-206B	Y Y	Y	0	0	Good		42.77	20.30	27.17	22.47
MW-225A	Y Y	Y	0	0	Good		45.95	20.53	76.03	25.42
MW-225B	Y Y	Y	0	0	Good		46.25	22.00	42.00	24.25
MW-105A	Y Y	Y	0	0	Good		24.19	3.08	47.75	21.11
MW-105B	Y Y	Y	0	0	Good		24.55	8.32	21.91	16.23
MW-231A	Y Y	Y	0	0	Good		45.41	21.02	61.19	24.39
MW-231B	Y Y	Y	0	0	Good		46.31	25.40	37.99	20.91
MW-230A	Y Y	Y	0	0	Good		36.32	15.93	81.49	20.39
MW-318	Y Y	Y	0	0	Good		24.28	5.86	25.14	18.42
MW-229A	Y Y	Y	0	0	Good		33.83	14.00	64.97	19.83
MW-229B	Y Y	Y	0	0	Good		30.08	15.46	33.14	14.62
MW-313	Y Y	Y	0	0	Good		21.39	9.08	37.47	12.31
EP-1	Y Y	Y	0	0	Good		31.67	12.46	101.22	19.21
EP-2	Y Y	Y	0	0	Good		29.74	10.86	99.00	18.88
EP-3	Y Y	Y	0	0	Good		27.91	Frozen	89.21	———

NOTE: MSL = Mean sea level; PVC = Polyvinyl chloride; VOC = Volatile organic compounds.

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EA ENGINEERING, SCIENCE, AND TECHNOLOGY, INC.

FIELD RECORD OF WELL GAUGING

Project Name: LTMP Bimonthly Gauging January 1999 Eastern Plume	Project No: 29600.47.7220	Date: 5-7 Jan 99
Weather/Temperature: cold (-5-0°) clear, sun		
EA Personnel: BA SC	Equipment: Slope indicator, TVA-1000	

Well No.	Labeled/ Capped	Well Locked	VOCs Concentration (ppm) Air Ambient	VOCs Concentration (ppm) Well Mouth	Casing/Seal Condition	Protective Casing Elevation (ft MSL)	PVC Casing Elevation (ft MSL)	Depth to Water (ft)	Measured Well Depth (ft)	Water Table Elevation (ft MSL)
EW-1	Y Y	Y	0	0	Good		25.34	12.60	99.66	12.74
MW 205	Y Y	Y	0	0	Good		45.99	24.45	79.00	21.54
EW-2	Y Y	Y	0	0	Good		31.63	14.53	90.86	17.10
EP-4	Y Y	Y	0	0	Good		32.59	10.50	91.11	22.09
EP-5	Y Y	Y	0	0	Good		34.61	11.14	79.85	23.47
EP-6	Y Y	Y	0	*	Good		40.14	Frozen	83.51	—
MW-207A	Y Y	Y	0	*	Casing Rusted		24.06	Frozen	75.55	—
MW-207B	Y Y	Y	0	0	Good		22.90	6.42	9.21	16.48
MW-311B	Y Y	Y	0	0	Good		21.48	20.13	56.25	1.35
P-112	Y Y	Y	0	0	Good		41.12	11.66	16.41	29.46
MW-319	Y Y	Y	0	0	Good		40.16	15.83	72.60	24.33
MW-106	Y Y	Y	0	0	Good		51.26	24.46	37.27	26.80
MW-208	Y Y	Y	0	0	Good		49.40	22.38	102.80	27.02
EW-3	Y Y	Y	0	0	Good		41.18	15.35	67.04	25.83
MW-223	Y Y	Y	0	0	Good		53.71	26.38	42.61	27.33
P-124	Y Y	Y	0	0	Good		51.12	DRY	23.10	—
EW-2A	Y Y	Y	0	0	Good		22.27	45.58	66.00	-23.31

NOTE: MSL = Mean sea level; PVC = Polyvinyl chloride; VOC = Volatile organic compounds.

EW-1 11 gpm
EW-2 18 gpm
EW-2A 21 gpm

* lock Frozen, unable to get reading

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EA ENGINEERING, SCIENCE, AND TECHNOLOGY, INC.

FIELD RECORD OF WELL GAUGING

Eastern Plume

Project Name: LTMP Bimonthly gauging January 1999	Project No: 29600.47.7220	Date: 5-7 Jan 99
Weather/Temperature: Cold (-5-0°) clear sun		
EA Personnel: SYC, BA	Equipment: Slope indicator, TVA-1000	

Well No.	Labeled/ Capped	Well Locked	VOCs Concentration (ppm) Air Ambient	VOCs Concentration (ppm) Well Mouth	Casing/Seal Condition	Protective Casing Elevation (ft MSL)	PVC Casing Elevation (ft MSL)	Depth to Water (ft)	Measured Well Depth (ft)	Water Table Elevation (ft MSL)
MW-209	Y Y	Y	0	0	Good		54.84	27.11	32.38	27.73
MW-222	Y Y	Y	0	0	Good		57.43	28.80	45.34	28.63
P-110	Y Y	Y	0	0	Good		56.70	DRY	23.87	—
MW-224	Y Y	Y	0	0	Good		57.63	28.00	46.01	29.63
EP-7	Y Y	Y	0	0	Good		48.49	21.15	70.20	27.34
EP-8	Y Y	Y	0	0	Good		47.31	19.78	80.38	27.53
EW-4	Y Y	Y	0	0	Good		37.13	15.75	69.37	21.38
EP-9	Y Y	Y	0	*	Good		37.84	Frozen	62.46	—
EP-10	Y Y	Y	0	0	Good		37.78	8.48	57.73	29.30
EP-11	Y Y	Y	0	0	Good		41.59	11.37	65.03	30.22
EP-12	Y Y	Y	0	0	Good		49.38	18.95	69.61	30.43
MW-307	Y Y	Y	0	0	Good		62.70	16.52	22.21	46.18
EW-5	Y Y	Y	0	0	Good		36.25	9.20	84.99	27.05
P-105	Y Y	Y	0	0	Good		42.08	10.41	70.35	31.67
P-106	Y Y	Y	0	0	Good		38.83	11.15	72.40	27.68
EP-13	Y Y	Y	0	0	Good		38.96	7.09	70.93	31.87
EP-14	Y Y	Y	0	0	Good		43.46	11.85	80.05	31.61

NOTE: MSL = Mean sea level; PVC = Polyvinyl chloride; VOC = Volatile organic compounds.

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EA ENGINEERING, SCIENCE, AND TECHNOLOGY, INC.

FIELD RECORD OF WELL GAUGING

Project Name: LTMP Bimonthly Gauging Jan 1999 Eastern Plume | Project No: 29600.47.7220 | Date: 5-7 Jan 99

Weather/Temperature: cold (-5-0°) clear, sun

EA Personnel: BA SC | Equipment: Slope indicator TUA-1000

Well No.	Labeled/ Capped	Well Locked	VOCs Concentration (ppm) Air Ambient	VOCs Concentration (ppm) Well Mouth	Casing/Seal Condition	Protective Casing Elevation (ft MSL)	PVC Casing Elevation (ft MSL)	Depth to Water (ft)	Measured Well Depth (ft)	Water Table Elevation (ft MSL)
EP-15	Y Y	Y	0	0	Good		45.37	14.03	82.68	31.34
P-132	Y Y	Y	0	0	Good		42.95	18.38	32.46	24.57
MW-303	Y Y	Y	0	0	Good		44.28	12.91	72.75	31.37
MW-305	Y Y	Y	0	0	Good		43.09	12.91	53.51	30.18
MW-NASB212	Y Y	Y	0	0	Good		41.64	10.43	64.29	31.21
MW-306	Y Y	Y	0	0	Good		52.12	19.10	56.98	33.02
P-103	Y Y	Y	0	0	Good		60.35	26.08	28.75	34.27
MW-1104	Y Y	Y	0	0	Good		60.09	12.85	27.55	47.24
P-111	Y Y	Y	0	0	Good		31.48	4.75	9.98	26.73
MW-308	Y Y	Y	0	0	Good		37.70	5.65	73.25	32.05
MW-309A	Y Y	Y	0	0	Good		22.84	+3.47	72.71	26.31
MW-309B	Y Y	Y	0	0	Good		22.32	Frozen at 068	59.25	—
MW-312	Y Y	Y	0	0	Good		35.97	13.89	71.15	22.08
MW-316A	Y Y	Y	0	0	Good		53.71	22.01	103.10	31.70
MW-316B	Y Y	Y	0	0	Good		54.46	12.84	57.85	41.56
MW-317A	Y Y	Y	0	0	Good		71.35	14.83	120.79	56.52
MW317B	Y Y	Y	0	0	Good		70.10	13.55	96.95	56.55

NOTE: MSL = Mean sea level; PVC = Polyvinyl chloride; VOC = Volatile organic compounds.

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EA ENGINEERING, SCIENCE, AND TECHNOLOGY, INC.

FIELD RECORD OF WELL GAUGING

Project Name: LTMP Bimonthly Gauging Jan 1999 Eastern Plume	Project No: 29600477220	Date: 5-7 Jan 99
Weather/Temperature: Cold (-5.0°) Clear, Sun		
EA Personnel: SC, BA	Equipment: Slope indicator, TVA-1000	

Well No.	Labeled/ Capped	Well Locked	VOCs Concentration (ppm) Air Ambient	VOCs Concentration (ppm) Well Mouth	Casing/Seal Condition	Protective Casing Elevation (ft MSL)	PVC Casing Elevation (ft MSL)	Depth to Water (ft)	Measured Well Depth (ft)	Water Table Elevation (ft MSL)
P-121	YY	Y	0	0			50.78	15.98	17.35	34.80
P-123	YY	Y	Blocked				54.19	—	Blocked	—
MW-330	YY	Y	0	0			35.71	5.69	36.30	30.02
MW-331	YY	Y	0	*			30.54	Frozen	56.23	—
MW-332	YY	Y	0	0			25.33	10.26	21.03	15.07
MW-333	YY	Y	0	0			27.25	Frozen	42.85	—
MW-334	YY	Y	0	*			30.93	Frozen	47.80	—
GP-1							31.10	3.06		28.04
GP-2							23.92	+2.65		26.57
GP-3							27.33	Frozen 3.0		—
GP-4							18.39	2.90		15.49
GP-5							23.38	9.67		13.71
GP-6							15.22	11.55		3.67

NOTE: MSL = Mean sea level; PVC = Polyvinyl chloride; VOC = Volatile organic compounds.

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EA ENGINEERING, SCIENCE, AND TECHNOLOGY, INC.

FIELD RECORD OF WELL GAUGING

Project Name/Site Name: Event 14 (April 1999) Sites 1+3	Project No. 29600477504
Weather/Temperature: overcast, 50°	Date: 4/12/99
EA Personnel: SK, BB	Equipment: Slope indicator TUA-1000

Well No.	Labeled/ Capped	Well Locked	VOCs Concentration (ppm)		Casing/Seal Condition	Protective Casing Elevation (ft)	PVC Casing Elevation (ft)	Depth to Water (ft)	Measured Well Depth (ft)	Water Table Elevation (ft)
			Air Ambient	Well Mouth						
EP-16	Y Y	Y	0	0	Good		58.92	34.01	58.77	24.91
MW-216A	Y Y	Y	0	100	Good		71.17	37.90	49.71	33.27
MW-211A	Y Y	Y	0	0	Good		65.59	23.83	142.76	41.76
MW-211B	Y Y	Y	0	0	Good		65.44	30.89	36.50	34.55
MW-210I	Y Y	Y	0	0	Good		61.05	11.59	30.00	49.46
MW-201R	Y Y	Y	0	0	Good		58.88	9.70	49.08	49.18
MW-233R	Y Y	Y	0	0	Good		63.94	30.86	38.71	33.08
MW-215R	Y Y	Y	0	0	Good		62.26	29.37	59.00	32.89
MW-202A	Y Y	Y	0	0	Good		52.40	19.45	31.09	32.95
MW-202B	Y Y	Y	0	0	Good		53.04	DRY	18.12	—
MW-203	Y Y	Y	0	0	Good		52.75	3 .55	42.04	21.20
MW-218	Y Y	Y	0	0	Good		54.16	33.91	53.54	20.25
MW-204	Y Y	Y	0	0	Good		50.50	29.88	37.18	20.62

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

EA ENGINEERING, SCIENCE, AND TECHNOLOGY, INC.

FIELD RECORD OF WELL GAUGING

Project Name/Site Name: Event 14 (April 1999) Sites 1+3	Project No. 29600.47.7504
Weather/Temperature: overcast, 50°	Date: 4/2/99
EA Personnel: BB, SK	Equipment: TVA-1000, Slope indicator

Well No.	Labeled/ Capped	Well Locked	VOCs Concentration (ppm) Air Ambient	VOCs Concentration (ppm) Well Mouth	Casing/Seal Condition	Protective Casing Elevation (ft)	PVC Casing Elevation (ft)	Depth to Water (ft)	Measured Well Depth (ft)	Water Table Elevation (ft)
MW-219	Y Y	Y	0	0	Good		51.87	30.27	71.82	21.60
EW-6	Y Y	Y	0	0	Good		57.74	*	39.05	———
EW-7	Y Y	Y	0	0	Good		51.13	26.67	38.90	24.46
MW-234R	Y Y	Y	0	0	Good		68.55	35.55	59.52	33.00
MW-232A	Y Y	Y	0	0	Good		71.18	38.14	54.74	33.04
MW-217B	Y Y	Y	0	0	Good		61.25	24.45	32.90	36.80
MW-217A	Y Y	Y	0	0	Good		61.78	29.52	47.40	32.26
MW220	Y Y	Y	0	0	Good		47.20	27.05	51.50	20.15
MW-210A	Y Y	Y	0	0	Good		52.17	18.40	106.32	33.77
MW210B	Y Y	Y	0	0	Good		54.72	29.88	40.50	24.84
EP-20	Y Y	Y	0	250	Good		69.55	36.07	47.25	33.48
EP-19	Y Y	Y	0	0	Good		68.22	35.00	47.30	33.22
EP-18	Y Y	Y	0	0	Good		68.58	35.40	38.10	33.18

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

* water in vault

EA ENGINEERING, SCIENCE, AND TECHNOLOGY, INC.

FIELD RECORD OF WELL GAUGING

Project Name/Site Name: Event 14 (April 1999) Sites 1+3	Project No. 29600.47.7504
Weather/Temperature: ~~Sunny~~ overcast, 50°	Date: 4/2/99
EA Personnel: SK, BB	Equipment: TVA-1000, Slope indicator

Well No.	Labeled/ Capped	Well Locked	VOCs Concentration (ppm)		Casing/Seal Condition	Protective Casing Elevation (ft)	PVC Casing Elevation (ft)	Depth to Water (ft)	Measured Well Depth (ft)	Water Table Elevation (ft)
			Air Ambient	Well Mouth						
EP-17	Y Y	Y	0	0	Good		69.73	36.52	42.85	33.21
MW-210R	Y Y	Y	0	0	Good		55.90	21.22	112.35	34.68
MW-240	Y Y	Y	0	2	Good		55.21	31.00	42.60	24.21

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

EA ENGINEERING, SCIENCE, AND TECHNOLOGY, INC.

FIELD RECORD OF WELL GAUGING

Project Name/Site Name: Event 14 (April 1999) Eastern Plume	Project No. 29600.47.7504
Weather/Temperature: Sunny, 50°, windy	Date: 4/1/99
EA Personnel: BB, SK	Equipment: Slope indicator, TVA-1000

Well No.	Labeled/ Capped	Well Locked	VOCs Concentration (ppm)		Casing/Seal Condition	Protective Casing Elevation (ft)	PVC Casing Elevation (ft)	Depth to Water (ft)	Measured Well Depth (ft)	Water Table Elevation (ft)
			Air Ambient	Well Mouth						
MW-310	Y Y	Y	0	0	Good		53.39	28.24	73.25	25.15
MW-206A	Y Y	Y	0	0	Good		43.02	19.30	74.36	23.72
MW-206B	Y Y	Y	0	0	Good		42.77	19.62	27.17	23.15
MW-225A	Y Y	Y	0	0	Good		45.95	19.63	76.03	26.32
MW-225B	Y Y	Y	0	0	Good		46.25	20.98	42.00	25.27
MW-105A	Y Y	Y	0	0	Good		24.19	2.52	47.75	21.67
MW-105B	Y Y	Y	0	0	Good		24.55	7.50	21.91	17.05
MW-231A	Y Y	Y	0	0	Good		45.41	20.32	61.19	25.09
MW-231B	Y Y	Y	0	0	Good		46.31	24.92	37.99	21.39
MW-236A	Y Y	Y	0	0	Good		36.32	15.43	81.49	20.89
MW-318	Y Y	Y	0	0	Good		24.28	4.69	25.14	19.59
MW-229A	Y Y	Y	0	0	Good		33.83	13.40	64.97	20.43
MW-229B	Y Y	Y	0	0	Good		30.08	14.75	33.14	15.33

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

EA ENGINEERING, SCIENCE, AND TECHNOLOGY, INC.

FIELD RECORD OF WELL GAUGING

Project Name/Site Name: Event 14 (April 1999) Eastern Plume	Project No. 29600.47.7504
Weather/Temperature: sunny, 50°, windy	Date: 4/1/99
EA Personnel: BB, SK	Equipment: Slope indicator TVA-1000

Well No.	Labeled/ Capped	Well Locked	VOCs Concentration (ppm) Air Ambient	VOCs Concentration (ppm) Well Mouth	Casing/Seal Condition	Protective Casing Elevation (ft)	PVC Casing Elevation (ft)	Depth to Water (ft)	Measured Well Depth (ft)	Water Table Elevation (ft)
MW-313	Y Y	Y	0	0	Good		21.39	8.18	37.47	13.21
EP-1	Y Y	Y	0	0	Good		31.67	11.65	101.22	20.02
EP-2	Y Y	Y	0	0	Good		29.74	10.05	99.00	19.69
EP-3	Y Y	Y	0	0	Good		27.91	7.43	89.21	20.48
EW-1	Y Y	Y	0	0	Good		25.34	11.76	99.66	13.58
MW-205	Y Y	Y	0	0	Good		45.99	23.85	79.00	22.14
EW-2	Y Y	Y	0	0	Good		31.63	13.12	40.86	18.51
EP-4	Y Y	Y	0	0	Good		32.59	9.32	91.11	23.27
EP-5	Y Y	Y	0	0	Good		34.61	9.90	79.85	24.71
EP-6	Y Y	Y	0	0	Good		40.14	14.70	83.51	25.44
MW-207A	Y Y	Y	0	0	Good		24.06	0.00	75.55	24.06
MW-207B	Y Y	Y	0	0	Good		22.90	3.20	9.21	19.70
MW-311	Y Y	Y	0	0	Good		21.48	18.27	56.25	3.21
EW-2A	Y Y	Y	0	0	Good		22.27	42.65	66.00	-20.38

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

EA ENGINEERING, SCIENCE, AND TECHNOLOGY, INC.

FIELD RECORD OF WELL GAUGING

Project Name/Site Name: Event 14 (April 1999) Eastern Plume	Project No. 29600477504
Weather/Temperature: Sunny, 50°, windy	Date: 4/1/99
EA Personnel: SK, BB	Equipment: Slope indicator, TVA-1000

Well No.	Labeled/ Capped	Well Locked	VOCs Concentration (ppm) Air Ambient	VOCs Concentration (ppm) Well Mouth	Casing/Seal Condition	Protective Casing Elevation (ft)	PVC Casing Elevation (ft)	Depth to Water (ft)	Measured Well Depth (ft)	Water Table Elevation (ft)
P-112	Y Y	Y	0	0	Good		41.12	12.50	16.41	28.62
MW-319	Y Y	Y	0	0	Good		40.16	14.75	72.60	25.41
MW-106	Y Y	Y	0	0	Good		51.26	23.25	37.27	28.01
MW-208	Y Y	Y	0	0	Good		49.40	21.16	102.80	28.24
EW-3	Y Y	Y	0	0	Good		41.18	12.14	67.04	29.04
MW-223	Y Y	Y	0	0	Good		53.71	25.20	42.61	28.51
P-124	Y Y	Y	0	0	Good		51.12	DRY	23.10	—
MW-209	Y Y	Y	0	0	Good		54.84	25.90	32.38	28.94
MW-222	Y Y	Y	0	0	Good		57.43	27.56	45.34	29.87
P-110	Y Y	Y	0	0	Good		56.70	DRY	23.87	—
MW-224	Y Y	Y	0	0	Good		57.63	26.77	46.01	30.86
EP-7	Y Y	Y	0	0	Good		48.49	19.92	70.20	28.57
EP-8	Y Y	Y	0	0	Good		47.31	18.56	80.38	28.75

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

EA ENGINEERING, SCIENCE, AND TECHNOLOGY, INC.

FIELD RECORD OF WELL GAUGING

Project Name/Site Name: Event 14 (April 1999) Eastern Plume	Project No. 29600.47.7504
Weather/Temperature: Sunny, 50°, windy	Date: 4/1/99
EA Personnel: BB, SK	Equipment: Slope indicator TUA-1000

Well No.	Labeled/ Capped	Well Locked	VOCs Concentration (ppm)		Casing/Seal Condition	Protective Casing Elevation (ft)	PVC Casing Elevation (ft)	Depth to Water (ft)	Measured Well Depth (ft)	Water Table Elevation (ft)
			Air Ambient	Well Mouth						
EW-4	Y Y	Y	0	0	Good		37.13	*	69.37	—
EP-9	Y Y	Y	0	0	Good		37.84	7.36	62.46	30.48
EP-10	Y Y	Y	0	0	Good		37.78	7.20	57.73	30.58
EP-11	Y Y	Y	0	0	Good		41.59	10.05	65.03	31.54
EP-12	Y Y	Y	0	0	Good		49.38	17.65	69.61	31.73
MW-307	Y Y	Y	0	0	Good		62.70	15.47	22.21	47.23
EW-5	Y Y	Y	0	0	Good		36.25	28.07	84.99	8.18
P-105	Y Y	Y	0	0	Good		42.08	9.05	70.35	33.03
P-106	Y Y	Y	0	0	Good		38.83	9.82	72.40	29.01
EP-13	Y Y	Y	0	0	Good		38.96	5.79	70.93	33.17
EP-14	Y Y	Y	0	0	Good		43.46	10.80	80.05	32.66
EP-15	Y Y	Y	0	0	Good		45.37	13.67	82.68	31.70
P-132	Y Y	Y	0	0	Good		42.95	17.63	32.46	25.32

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

* water in well vault

EA ENGINEERING, SCIENCE, AND TECHNOLOGY, INC.

FIELD RECORD OF WELL GAUGING

Project Name/Site Name: Event 14 (April 1999) Eastern Plume	Project No. 29600.47.7504
Weather/Temperature: Sunny, 50°, windy	Date: 4/1/99
EA Personnel: BB, SK	Equipment: TVA-1000, slope indicator

Well No.	Labeled/ Capped	Well Locked	VOCs Concentration (ppm) Air Ambient	VOCs Concentration (ppm) Well Mouth	Casing/Seal Condition	Protective Casing Elevation (ft)	PVC Casing Elevation (ft)	Depth to Water (ft)	Measured Well Depth (ft)	Water Table Elevation (ft)
MW-303	Y Y	Y	0	0	Good		44.28	11.75	72.75	32.53
MW-305	Y Y	Y	0	0	Good		43.09	11.85	53.51	31.24
MW-NASB 212	Y Y	Y	0	0	Good		41.64	9.10	64.29	32.54
MW-306	Y Y	Y	0	0	Good		52.12	17.87	56.98	34.25
P-103	Y Y	Y	0	0	Good		60.35	25.12	28.75	35.23
MW-1104	Y Y	Y	0	0	Good		60.09	11.29	27.55	48.80
P-111	Y Y	Y	0	0	Good		31.48	4.01	9.98	27.47
MW-308	Y Y	Y	0	0	Good		37.70	4.73	73.25	32.97
MW-309A	Y Y	Y	0	0	Good		22.84	4.61	72.71	27.45
MW-309B	Y Y	Y	0	0	Good		22.32	2.37	59.25	19.95
MW-312	Y Y	Y	0	0	Good		35.97	14.87	71.15	21.10
MW-316A	Y Y	Y	0	0	Good		53.71	19.90	103.10	33.81
MW-316B	Y Y	Y	0	0	Good		54.40	9.10	57.85	45.30

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

EA ENGINEERING, SCIENCE, AND TECHNOLOGY, INC.

FIELD RECORD OF WELL GAUGING

Project Name/Site Name: Event 14 (April 1999) Eastern Plume	Project No. 29600.47.7504
Weather/Temperature: sunny, 50°, windy	Date: 4/1/99
EA Personnel: BB, SK	Equipment: TVA-1000, Slope indicator

Well No.	Labeled/ Capped	Well Locked	VOCs Concentration (ppm)		Casing/Seal Condition	Protective Casing Elevation (ft)	PVC Casing Elevation (ft)	Depth to Water (ft)	Measured Well Depth (ft)	Water Table Elevation (ft)
			Air Ambient	Well Mouth						
MW317A	Y Y	Y	0	0	Good		71.35	12.65	120.79	58.70
MW317B	Y Y	Y	0	0	Good		70.10	11.40	96.95	58.70
P-121	Y Y	Y	0	0	Good		50.78	14.40	77.35	36.38
P123	Y Y	Y	0	0	Good		54.19	Blocked	Blocked	—
MW330	Y Y	Y	0	0	Good		35.71	3.60	36.36	32.11
MW331	Y Y	Y	0	0	Good		30.54	2.00	56.23	28.54
MW332	Y Y	Y	0	0	Good		25.33	9.00	21.03	16.33
MW333	Y Y	Y	0	0	Good		27.25	11.29	42.85	15.96
MW334	Y Y	Y	0	0	Good		30.93	11.73	47.80	19.20

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

EA ENGINEERING, SCIENCE, AND TECHNOLOGY, INC.

FIELD RECORD OF WELL GAUGING

Project Name/Site Name: Event 14 (April 1999) Eastern Plume	Project No. 29600.47.7504
Weather/Temperature: Sunny, 50°, windy	Date: 4/1/99
EA Personnel: BB, SK	Equipment: ~~FWA~~ Slope indicator

Well No.	Labeled/ Capped	Well Locked	VOCs Concentration (ppm)		Casing/Seal Condition	Protective Casing Elevation (ft)	PVC Casing Elevation (ft)	Depth to Water (ft)	Measured Well Depth (ft)	Water Table Elevation (ft)
			Air Ambient	Well Mouth						
GP-1							31.10	3.02		28.08
GP-2						23.92	~~28.95~~	+2.55	26.47	~~31.50~~
GP-3							27.33	3.50		23.83
GP-4							18.39	2.56		15.83
GP-5							23.38	9.05	14.33	~~24.33~~
GP-6							15.22	10.45		4.77

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

Appendix A.2

Field Record of Well Gauging, Purging, and Sampling Forms

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: NAS Brunswick
PROJECT NUMBER: 29600.47.7504
WELL I.D.: MW-202A
WELL LOCK STATUS: Locked
WELL CONDITION: Good
WEATHER: ±40 Cloudy/windy

GAUGE DATE: 4/14/99
GAUGE TIME: 1017
SOUNDING METHOD: Slope Indicator
MEASUREMENT REF: TOC
STICK UP/DOWN (ft): 2.11
WELL DIAMETER (in.): 2"

PURGE DATE: 4/14/99
PURGE TIME: 1020
PURGE METHOD: Low Flow
FIELD PERSONNEL: BJR/PH
AMBIENT AIR VOCs (ppm) Start: 0.0 End: 0.0
WELL MOUTH VOCs (ppm): Start: 0.0 End: 0.0

WELL VOLUME

A. WELL DEPTH (ft): 31.09
B. DEPTH TO WATER (ft): 21.60
C. LIQUID DEPTH (ft) (A-B): 9.49
D. WELL VOLUME/FT (L): 0.605
E. WELL VOLUME (L) (C*D): 5.74
F. THREE WELL VOLUMES (L) (E*3): 17.22

Parameter	Beginning	1	2	3	4 *	5
Time (min)	1025	1030	1035	1040	1045	1050
Depth to Water (ft)	21.60	21.60	21.15	21.15	20.63	20.63
Purge Rate (L/min)	.2	.2	.2	.2	.2	.2
Volume Purged (L)	1	2	3	4	5	6
pH	3.58	4.84	5.38	5.53	5.59	5.67
Temperature (°C)	10.14	11.08	12.65	13.10	14.66	14.51
Conductivity (μmhos/cm)	262	298	280	297	428	520
Dissolved Oxygen (mg/L)	7.85	6.81	5.65	4.97	4.60	3.53
Turbidity (NTU)	30	24	8	8	60	69
Eh (mv)	266	266	252	244	238	219

TOTAL QUANTITY OF WATER REMOVED (L): 10.2

SAMPLERS: BJR/PH
SAMPLING TIME (START/END): 1114 - 1118
SAMPLING DATE: 4/14/98
DECONTAMINATION FLUIDS USED: DI
SAMPLE TYPE: Grab
SAMPLE PRESERVATIVES: HCl, HNO3
SAMPLE BOTTLE IDs: BN-14-S1-MW202A-MS/MSD and BN-14-S1-MW202D
SAMPLE PARAMETERS: VOC, Total metals

COMMENTS AND OBSERVATIONS: Purge water containerized and disposed of at treatment plant - Have to adjust flow to keep pump rate constant and flow going * clog blows through pump - DTW 21 not 24

DTB 3.26

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING (OVERFLOW PAGE)

Site Name: NAS Brunswick	Project No.: 29600.47.7504 Date: 4/14/99
Well ID: MW-202A	Field Personnel: KB/RH

**

Parameter	6	7	8	9	10	11
Time (min.)	1055	1100	1105	1108	1111	
Depth to Water (ft)	23.19	23.19	22.11	22.11	22.11	
Purge Rate (L/min)	.2	.2	.2	.2	.2	
Volume Purged (L)	7	8	9	9.6	10.2	
pH	5.81	5.64	5.43	5.47	5.36	
Temperature (°C)	13.58	13.02	13.06	13.17	13.57	
Conductivity (μmhos/cm)	479	486	499	507	520	
Dissolved Oxygen (mg/L)	5.30	4.58	3.15	3.19	3.21	
Turbidity (NTU)	54	5	2	1	0	
Eh (mv)	208	184	182	180	179	

Parameter	12	13	14	15	16	17
Time (min)						
Depth to Water (ft)						
Purge Rate (L/min)						
Volume Purged (L)						
pH						
Temperature (°C)						
Conductivity (μmhos/cm)						
Dissolved Oxygen (mg/L)						
Turbidity (NTU)						
Eh (mv)						

COMMENTS AND OBSERVATIONS **Clean flow cell

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: NAS Brunswick
WELL I.D.: mw-203
WELL CONDITION: Good

PROJECT NUMBER: 29600.47.7504
WELL LOCK STATUS: Locked
WEATHER: Cloudy/cool/windy ±40

GAUGE DATE: 4/14/99
SOUNDING METHOD: Slope Indicator
STICK UP/DOWN (ft): 2.12

GAUGE TIME: 1417
MEASUREMENT REF: TOC
WELL DIAMETER (in.): 2"

PURGE DATE: 4/14/99
PURGE METHOD: Low Flow
AMBIENT AIR VOCs (ppm) Start: 0.0 End: 0.0

PURGE TIME: 1420
FIELD PERSONNEL: KS/RH
WELL MOUTH VOCs (ppm): Start: 0.0 End: 0.0

WELL VOLUME

A. WELL DEPTH (ft): 42.04
B. DEPTH TO WATER (ft): 31.65
C. LIQUID DEPTH (ft) (A-B): 10.39

D. WELL VOLUME/FT (L): 0.605
E. WELL VOLUME (L) (C*D): 6.29
F. THREE WELL VOLUMES (L) (E*3): 18.87

Parameter	Beginning	1	2	3	4	5
Time (min)	1425	1430	1435	1440	1445	
Depth to Water (ft)	31.65	31.65	31.50	31.51	31.51	
Purge Rate (L/min)	.2	.2	.2	.2	.2	
Volume Purged (L)	1	2	3	4	5	
pH	5.19	5.52	5.63	5.69	5.53	
Temperature (°C)	10.00	10.12	9.91	10.25	10.87	
Conductivity (μmhos/cm)	649	671	639	633	694	
Dissolved Oxygen (mg/L)	9.60	9.47	9.53	9.52	9.14	
Turbidity (NTU)	7	5	5	3	3	
Eh (mv)	227	236	247	236	230	

TOTAL QUANTITY OF WATER REMOVED (L): 5

SAMPLERS: KS/RH
SAMPLING TIME (START/END): 1448-1455
SAMPLING DATE: 4/14/99
DECONTAMINATION FLUIDS USED: DI
SAMPLE TYPE: Grab
SAMPLE PRESERVATIVES: HCl, HNO3
SAMPLE BOTTLE IDs: BN-14-S1-mw203
SAMPLE PARAMETERS: VOC, TAL metals

COMMENTS AND OBSERVATIONS:
DTB 42.20

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: Sites 1 and 3
WELL I.D.: MW 204
WELL CONDITION: Good

PROJECT NUMBER: 29600.47.5704
WELL LOCK STATUS: Good
WEATHER: Cloudy, Windy, 60°

GAUGE DATE: 4/14/99
SOUNDING METHOD: Slope Indicator
STICK UP/DOWN (ft): 1.74

GAUGE TIME: 1320
MEASUREMENT REF: TOC
WELL DIAMETER (in.): 2

PURGE DATE: 4/14/99
PURGE METHOD: Low Flow
AMBIENT AIR VOCs (ppm) Start: 0.0 End: 0.0

PURGE TIME: 1322
FIELD PERSONNEL: JG/BA
WELL MOUTH VOCs (ppm): Start: 0.0 End: 0.0

WELL VOLUME

A. WELL DEPTH (ft): 37.18
B. DEPTH TO WATER (ft): 29.90
C. LIQUID DEPTH (ft) (A-B): 7.28

D. WELL VOLUME/FT (L): 0.605
E. WELL VOLUME (L) (C*D): 4.4
F. THREE WELL VOLUMES (L) (E*3): 13.2

Parameter	Beginning	1	2	3	4	5
Time (min)	1322	1327	1332	1337	1342	1347
Depth to Water (ft)	29.90	29.91	29.91	29.91	29.91	29.91
Purge Rate (L/min)	0.2	0.2	0.2	0.2	0.2	0.2
Volume Purged (L)	—	1	2	3	4	5
pH	6.17	6.67	6.20	6.35	6.38	6.38
Temperature (°C)	9.57	8.76	9.65	9.73	9.78	9.89
Conductivity (μmhos/cm)	40	38	39	39	39	39
Dissolved Oxygen (mg/L)	13.04	12.29	12.24	11.86	11.70	11.48
Turbidity (NTU)	7	0	0	0	0	0
Eh (mv)	486	444	444	422	396	380

TOTAL QUANTITY OF WATER REMOVED (L): 6

SAMPLERS: JG/BA
SAMPLING TIME (START/END): 1352
SAMPLING DATE: 4/14/99
DECONTAMINATION FLUIDS USED: DI
SAMPLE TYPE: Grab
SAMPLE PRESERVATIVES: HCl, HNO3
SAMPLE BOTTLE IDs: BN-14-S1-MW 204
SAMPLE PARAMETERS: VOCs, Metals

COMMENTS AND OBSERVATIONS:

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING (OVERFLOW PAGE)

Site Name: Sites 1 and 3	Project No.: 2960447.5704	Date: 4/14/99
Well ID: MW 204	Field Personnel: JG/BA	

Parameter	6	7	8	9	10	11
Time (min.)	1350					
Depth to Water (ft)	29.91					
Purge Rate (L/min)	0.2					
Volume Purged (L)	6					
pH	6.37					
Temperature (°C)	9.94					
Conductivity (μmhos/cm)	39					
Dissolved Oxygen (mg/L)	11.37					
Turbidity (NTU)	0					
Eh (mv)	370					

Parameter	12	13	14	15	16	17
Time (min)						
Depth to Water (ft)						
Purge Rate (L/min)						
Volume Purged (L)						
pH						
Temperature (°C)						
Conductivity (μmhos/cm)						
Dissolved Oxygen (mg/L)						
Turbidity (NTU)						
Eh (mv)						

COMMENTS AND OBSERVATIONS _____

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: NAS Brunswick
PROJECT NUMBER: 29600.47.7504
WELL I.D.: MW-217B
WELL LOCK STATUS: Locked
WELL CONDITION: Good
WEATHER: Sunny/Windy ±40

GAUGE DATE: 4/14/99
GAUGE TIME: 0847
SOUNDING METHOD: Slope Indicator
MEASUREMENT REF: TOC
STICK UP/DOWN (ft): 1.30
WELL DIAMETER (in.): 2"

PURGE DATE: 4/14/99
PURGE TIME: 0850
PURGE METHOD: Low Flow
FIELD PERSONNEL: KS/RH
AMBIENT AIR VOCs (ppm) Start: 8.0 End: 0.0
WELL MOUTH VOCs (ppm): Start: 60.0 End: 0.0 FID

WELL VOLUME

A. WELL DEPTH (ft): 32.90
B. DEPTH TO WATER (ft): 24.2
C. LIQUID DEPTH (ft) (A-B): 8.7
D. WELL VOLUME/FT (L): 0.605
E. WELL VOLUME (L) (C*D): 5.26
F. THREE WELL VOLUMES (L) (E*3): 15.8

Parameter	Beginning	1	2	3	4	5 *
Time (min)	0855	0900	0905	0910	0915	0920
Depth to Water (ft)	23.80	23.80	24.00	24.00	23.80	23.80
Purge Rate (L/min)	.2	.2	.2	.2	.2	.2
Volume Purged (L)	1	2	3	4	5	6
pH	1.66	1.68	0.77	1.59	0.40	
Temperature (°C)	9.50	10.47	13.02	14.74	13.62	
Conductivity (μmhos/cm)	1434	1501	1576	1792	1657	
Dissolved Oxygen (mg/L)	0.55	0.53	0.93	0.53	0.74	
Turbidity (NTU)	214	215	216	230	238	
Eh (mv)	99	84	73	63	62	↓

TOTAL QUANTITY OF WATER REMOVED (L): 5

SAMPLERS: KS/RH
SAMPLING TIME (START/END): 0936-0944
SAMPLING DATE: 4/14/99
DECONTAMINATION FLUIDS USED: DI
SAMPLE TYPE: Grab
SAMPLE PRESERVATIVES: HCl, HNO_3
SAMPLE BOTTLE IDs: BN-14-S1-MW217B
SAMPLE PARAMETERS: VOC, TAL Elements

COMMENTS AND OBSERVATIONS: Have to keep shutting down pump to keep flow going - severe silting - can not keep parameters stable *draw down to 27.5 - shut down pump to recharge - unable to maintain any flow - re-charges and sampled
DTB - 32.90 217A DTM - 47.40
purge water containerized and disposed of @ treatment plant

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: NAS Brunswick
WELL I.D.: MW-218
WELL CONDITION: Good

PROJECT NUMBER: 29600.47.7504
WELL LOCK STATUS: Locked
WEATHER: Cloudy/cool/±40

GAUGE DATE: 4/14/99
SOUNDING METHOD: Slope Indicator
STICK UP/DOWN (ft): 2.61

GAUGE TIME: 1313
MEASUREMENT REF: TOC
WELL DIAMETER (in.): 2"

PURGE DATE: 4/14/99
PURGE METHOD: Low Flow
AMBIENT AIR VOCs (ppm) Start: 0.0 End: 0.0

PURGE TIME: 1315
FIELD PERSONNEL: KS/RH
WELL MOUTH VOCs (ppm): Start: 0.0 End: 0.0

WELL VOLUME

A. WELL DEPTH (ft): 53.54
B. DEPTH TO WATER (ft): 33.33
C. LIQUID DEPTH (ft) (A-B): 20.21
D. WELL VOLUME/FT (L): 0.605
E. WELL VOLUME (L) (C*D): 12.2
F. THREE WELL VOLUMES (L) (E*3): 36.6

Parameter	Beginning	1	2	3	4	5
Time (min)	1320	1325	1330	1335	1340	1345
Depth to Water (ft)	37.33	37.33	37.33	37.85	37.85	37.85
Purge Rate (L/min)	.2	.2	.2	.2	.2	.2
Volume Purged (L)	1	2	3	4	5	6
pH	3.66	5.58	6.76	7.38	7.14	7.27
Temperature (°C)	10.89	10.37	10.18	10.45	10.31	10.15
Conductivity (μmhos/cm)	890	943	915	897	899	846
Dissolved Oxygen (mg/L)	2.04	0.94	0.81	0.80	0.83	0.81
Turbidity (NTU)	28	26	20	13	17	17
Eh (mv)	76	20	-23	-43	-43	-42

TOTAL QUANTITY OF WATER REMOVED (L): 9

SAMPLERS: KS/RH
SAMPLING TIME (START/END): 1404-1410
SAMPLING DATE: 4/14/99
DECONTAMINATION FLUIDS USED: DI
SAMPLE TYPE: Grab
SAMPLE PRESERVATIVES: HCl, HNO_3
SAMPLE BOTTLE IDs: BN-14-S1-MW218
SAMPLE PARAMETERS: VOC - Tal Elements
COMMENTS AND OBSERVATIONS: Purge water Containerized and disposed of at treatment plant

DTB - 53.79

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING (OVERFLOW PAGE)

Site Name: NAS Brunswick	Project No. 29600.477504	Date: 4/14/99	
Well ID: MW-218	Field Personnel: KS/RH		

Parameter	6	7	8	9	10	11
Time (min.)	1350	1355	1400			
Depth to Water (ft)	37.86	37.86	37.86			
Purge Rate (L/min)	.2	.2	.2			
Volume Purged (L)	7	8	9			
pH	6.50	6.36	6.01			
Temperature (°C)	9.87	10.07	10.12			
Conductivity (μmhos/cm)	848	849	856			
Dissolved Oxygen (mg/L)	0.73	0.91	0.84			
Turbidity (NTU)	18	18	19			
Eh (mv)	-29	-27	-27			

Parameter	12	13	14	15	16	17
Time (min)						
Depth to Water (ft)						
Purge Rate (L/min)						
Volume Purged (L)						
pH						
Temperature (°C)						
Conductivity (μmhos/cm)						
Dissolved Oxygen (mg/L)						
Turbidity (NTU)						
Eh (mv)						

COMMENTS AND OBSERVATIONS _____

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: Sites 1 and 3
WELL I.D.: MW 29
WELL CONDITION: Good

PROJECT NUMBER: 29600.47.5704
WELL LOCK STATUS: Good
WEATHER: Cloudy, Windy, 50°F

GAUGE DATE: 4/14/99
SOUNDING METHOD: Slope Indicator
STICK UP/DOWN (ft): 2.56

GAUGE TIME: 1025
MEASUREMENT REF: TOC
WELL DIAMETER (in.): 2

PURGE DATE: 4/14/99
PURGE METHOD: Low Flow
AMBIENT AIR VOCs (ppm) Start: 0.0 End: 0.0

PURGE TIME: 1026
FIELD PERSONNEL: YG/BA
WELL MOUTH VOCs (ppm): Start: 0.0 End: 0.0

WELL VOLUME

A. WELL DEPTH (ft): 71.82
B. DEPTH TO WATER (ft): 30.29
C. LIQUID DEPTH (ft) (A-B): 41.53

D. WELL VOLUME/FT (L): 0.605
E. WELL VOLUME (L) (C*D): 25.1
F. THREE WELL VOLUMES (L) (E*3): 75.3

Parameter	Beginning	1	2	3	4	5
Time (min)	1026	1031	1036	1041	1046	1051
Depth to Water (ft)	30.29	30.31	30.31	30.31	30.33	30.33
Purge Rate (L/min)	0.2	0.2	0.2	0.2	0.2	0.2
Volume Purged (L)	–	1	2	3	4	5
pH	6.67	6.39	6.31	6.34	6.34	6.29
Temperature (°C)	8.90	8.21	8.22	8.35	8.76	9.32
Conductivity (μmhos/cm)	99	97	101	103	102	102
Dissolved Oxygen (mg/L)	11.90	9.23	9.06	8.97	8.89	8.79
Turbidity (NTU)	17	5	30	50	24	29
Eh (mv)	342	346	341	334	329	332

TOTAL QUANTITY OF WATER REMOVED (L): 12

SAMPLERS: YG/BA
SAMPLING TIME (START/END): 1120
SAMPLING DATE: 4/14/99
DECONTAMINATION FLUIDS USED: DI
SAMPLE TYPE: Grab
SAMPLE PRESERVATIVES: HCl, HNO_3
SAMPLE BOTTLE IDs: BN-14-51 MW29
SAMPLE PARAMETERS: VOC, Metals

COMMENTS AND OBSERVATIONS:

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING (OVERFLOW PAGE)

Site Name: Sites 1 and 3	Project No.: 29600.47.5104	Date: 4/14/99	
Well ID: MW 219	Field Personnel: JG/BA		

Parameter	6	7	8	9	10	11
Time (min.)	1056	1101	1106	1111	1114	1117
Depth to Water (ft)	30.31	30.31	30.31	30.31	30.31	30.31
Purge Rate (L/min)	0.2	0.2	0.2	0.2	0.2	0.2
Volume Purged (L)	6	7	8	9	10	11
pH	5.51	6.11	6.18	6.18	6.18	6.18
Temperature (°C)	9.68	9.81	9.84	9.95	10.00	10.06
Conductivity (μmhos/cm)	103	102	103	102	102	104
Dissolved Oxygen (mg/L)	9.51	9.92	9.42	9.26	9.17	9.17
Turbidity (NTU)	9	9	5	2	0	1
Eh (mv)	420	390	370	356	349	342

Parameter	12	13	14	15	16	17
Time (min)						
Depth to Water (ft)						
Purge Rate (L/min)						
Volume Purged (L)						
pH						
Temperature (°C)						
Conductivity (μmhos/cm)						
Dissolved Oxygen (mg/L)						
Turbidity (NTU)						
Eh (mv)						

COMMENTS AND OBSERVATIONS _____

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: Sites 1 and 3
WELL I.D.: MW 240
WELL CONDITION: Good

PROJECT NUMBER: 29600 47.5704
WELL LOCK STATUS: Good
WEATHER: Cloudy, Windy 50°F

GAUGE DATE: 4/14/99
SOUNDING METHOD: Slope
STICK UP/DOWN (ft):

GAUGE TIME: 1410
MEASUREMENT REF: TOC
WELL DIAMETER (in.): 2

PURGE DATE: 4/14/99
PURGE METHOD: Low flow

PURGE TIME: 1412
FIELD PERSONNEL: JG/BA

AMBIENT AIR VOCs (ppm) Start: 0.0 End: 0.0

WELL MOUTH VOCs (ppm): Start: 0.0 End: 0.0

WELL VOLUME

A. WELL DEPTH (ft): 43 47.68
B. DEPTH TO WATER (ft): 31.04
C. LIQUID DEPTH (ft) (A-B): 11.56
D. WELL VOLUME/FT (L): 0.605
E. WELL VOLUME (L) (C*D): 6.99
F. THREE WELL VOLUMES (L) (E*3): 21.0

Parameter	Beginning	1	2	3	4	5
Time (min)	1412	1417	1422	1427	1432	1435
Depth to Water (ft)	31.04	31.05	31.05	31.05	31.05	31.05
Purge Rate (L/min)	0.2	0.2	0.2	0.2	0.2	0.2
Volume Purged (L)	—	1	2	3	4	5
pH	6.12	6.68	6.70	6.68	6.62	6.62
Temperature (°C)	9.24	9.09	9.15	11.14	12.32	12.44
Conductivity (μmhos/cm)	100	85	87	90	93	92
Dissolved Oxygen (mg/L)	11.85	11.30	11.20	10.64	10.49	10.46
Turbidity (NTU)	1	1	2	0	0	0
Eh (mv)	457	421	413	401	390	384

TOTAL QUANTITY OF WATER REMOVED (L): 6

SAMPLERS: JG/BA
SAMPLING TIME (START/END): 1440

SAMPLING DATE: 4/14/99
DECONTAMINATION FLUIDS USED:

SAMPLE TYPE: Grab
SAMPLE PRESERVATIVES: HCl, HNO3

SAMPLE BOTTLE IDs: BN.14.S1.MW240

SAMPLE PARAMETERS: VOC, Metals

COMMENTS AND OBSERVATIONS:

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING (OVERFLOW PAGE)

Site Name: Sites 1 and 3	Project No.: 2960.47.5704	Date: 4/14/99
Well ID: MW 240	Field Personnel: JG/BA	

Parameter	6	7	8	9	10	11
Time (min.)	1438					
Depth to Water (ft)	31.05					
Purge Rate (L/min)	0.2					
Volume Purged (L)	6					
pH	6.58					
Temperature (°C)	12.58					
Conductivity (μmhos/cm)	92					
Dissolved Oxygen (mg/L)	10.46					
Turbidity (NTU)	0					
Eh (mv)	379					

Parameter	12	13	14	15	16	17
Time (min)						
Depth to Water (ft)						
Purge Rate (L/min)						
Volume Purged (L)						
pH						
Temperature (°C)						
Conductivity (μmhos/cm)						
Dissolved Oxygen (mg/L)						
Turbidity (NTU)						
Eh (mv)						

COMMENTS AND OBSERVATIONS _____

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: Sites 1&3
WELL I.D.: MW-2101
WELL CONDITION: GOOD

PROJECT NUMBER: 29600.47 7504
WELL LOCK STATUS: GOOD
WEATHER: Sun with clouds, N breeze

GAUGE DATE: 4/14/99
SOUNDING METHOD: Slope Indicator
STICK UP/DOWN (ft): 5.24

GAUGE TIME: 0900
MEASUREMENT REF: TOC
WELL DIAMETER (in.): 2

PURGE DATE: 4/14/99
PURGE METHOD: Low Flow
AMBIENT AIR VOCs (ppm) Start: 0.0 End: 0.0

PURGE TIME: 0901
FIELD PERSONNEL: VG/BA
WELL MOUTH VOCs (ppm): Start: 0.0 End: 0.0

WELL VOLUME

A. WELL DEPTH (ft): 30.00
B. DEPTH TO WATER (ft): 11.38
C. LIQUID DEPTH (ft) (A-B): 18.62
D. WELL VOLUME/FT (L): 0.605
E. WELL VOLUME (L) (C*D): 1.127
F. THREE WELL VOLUMES (L) (E*3): 33.8

Parameter	Beginning	1	2	3	4	5
Time (min)	0901	0906	0911	0916	0921	0926
Depth to Water (ft)	11.38	11.38	11.38	11.38	11.39	11.39
Purge Rate (L/min)	0.15	0.15	0.15	0.15	0.15	0.15
Volume Purged (L)	—	0.75	1.50	2.25	3	3.75
pH	5.81	5.74	4.89	5.47	5.59	5.60
Temperature (°C)	7.80	7.80	8.33	9.46	10.12	10.30
Conductivity (μmhos/cm)	258	257	257	265	278	274
Dissolved Oxygen (mg/L)	11.02	10.75	11.78	10.47	10.11	9.89
Turbidity (NTU)	0	0	0	0	0	1
Eh (mv)	443	426	457	419	385	368

TOTAL QUANTITY OF WATER REMOVED (L): 7.65

SAMPLERS: VG/BA
SAMPLING TIME (START/END): 0954
SAMPLING DATE: 4/14/99
DECONTAMINATION FLUIDS USED: DI/
SAMPLE TYPE: Grab
SAMPLE PRESERVATIVES: HCl, HNO_3
SAMPLE BOTTLE IDs: BN-14-S1-MW-2101
SAMPLE PARAMETERS: VOC, Metals

COMMENTS AND OBSERVATIONS:

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING (OVERFLOW PAGE)

Site Name: Sites 1 and 3	Project No.: 29600475704	Date: 4/14/99
Well ID: BN-14-S1 MW2101	Field Personnel: JG/BA	

Parameter	6	7	8	9	10	11
Time (min.)	0931	0936	0941	0946	0949	0952
Depth to Water (ft)	11.40	11.39	11.39	11.39	11.38	11.38
Purge Rate (L/min)	0.15	0.15	0.15	0.15	0.15	0.15
Volume Purged (L)	4.5	5.25	6	6.75	7.20	7.65
pH	5.60	5.60	5.60	5.58	5.57	5.58
Temperature (°C)	10.46	10.47	10.36	10.99	11.52	11.46
Conductivity (μmhos/cm)	276	277	279	276	285	286
Dissolved Oxygen (mg/L)	9.57	9.35	9.19	9.39	9.32	9.28
Turbidity (NTU)	3	5	7	0	0	0
Eh (mv)	356	346	339	404	391	381

Parameter	12	13	14	15	16	17
Time (min)						
Depth to Water (ft)						
Purge Rate (L/min)						
Volume Purged (L)						
pH						
Temperature (°C)						
Conductivity (μmhos/cm)						
Dissolved Oxygen (mg/L)						
Turbidity (NTU)						
Eh (mv)						

COMMENTS AND OBSERVATIONS _____

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: Eastern Plume
WELL I.D.: MW 105A
WELL CONDITION: Good

PROJECT NUMBER: 29600.76.7504
WELL LOCK STATUS: Good
WEATHER: Light Rain, 45°F

GAUGE DATE: 4/8/99
SOUNDING METHOD: Slope Indicator
STICK UP/DOWN (ft): 3.17

GAUGE TIME: 1045
MEASUREMENT REF: TOC
WELL DIAMETER (in.): 2

PURGE DATE: 4/8/99
PURGE METHOD: Low Flow
AMBIENT AIR VOCs (ppm) Start: 0.0 End: 0.0

PURGE TIME: 1051
FIELD PERSONNEL: JG/BA
WELL MOUTH VOCs (ppm): Start: 0.0 End: 0.0

WELL VOLUME

A. WELL DEPTH (ft): 47.75
B. DEPTH TO WATER (ft): 2.51
C. LIQUID DEPTH (ft) (A-B): 45.24

D. WELL VOLUME/FT (L): 0.605
E. WELL VOLUME (L) (C*D): 27.4
F. THREE WELL VOLUMES (L) (E*3): 82.2

Parameter	Beginning	1	2	3	4	5
Time (min)	1051	1056	1100	1105	1108	1111
Depth to Water (ft)	2.51	2.51	2.51	2.51	2.50	2.60
Purge Rate (L/min)	0.1	0.1	0.1	0.1	0.1	0.1
Volume Purged (L)	—	0.5	1.0	1.5	2.0	2.5
pH	7.60	7.66	7.39	7.48	7.46	7.43
Temperature (°C)	7.39	7.72	8.08	8.14	8.28	8.39
Conductivity (μmhos/cm)	38	37	37	38	38	39
Dissolved Oxygen (mg/L)	10.67	9.57	9.89	10.00	9.64	9.89
Turbidity (NTU)	3	4	3	4	2	2
Eh (mv)	202	208	210	216	221	223

TOTAL QUANTITY OF WATER REMOVED (L): 2.5

SAMPLERS: JG/BA
SAMPLING TIME (START/END): 1114
SAMPLING DATE: 4/8/99
DECONTAMINATION FLUIDS USED: DI
SAMPLE TYPE: GRAB
SAMPLE PRESERVATIVES: HCl
SAMPLE BOTTLE IDs: BN-14-EP-MW 105A
SAMPLE PARAMETERS: VOCs

COMMENTS AND OBSERVATIONS:

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: NAS Brunswick
WELL I.D.: MW-205
WELL CONDITION: Good

PROJECT NUMBER: 29600.47.7504
WELL LOCK STATUS: Locked
WEATHER: Cloudy ±40 | Rain

GAUGE DATE: 4/8/99
SOUNDING METHOD: Slope Indicator
STICK UP/DOWN (ft): 1.94

GAUGE TIME: 0832
MEASUREMENT REF: TOC
WELL DIAMETER (in.): 2"

PURGE DATE: 4/8/99
PURGE METHOD: Low Flow
AMBIENT AIR VOCs (ppm) Start: 0.0 End: 0.0

PURGE TIME: 0835
FIELD PERSONNEL: KS/RH
WELL MOUTH VOCs (ppm): Start: 0.0 End: 0.0

WELL VOLUME

A. WELL DEPTH (ft): 79.00
B. DEPTH TO WATER (ft): 23.97
C. LIQUID DEPTH (ft) (A-B): 55.03
D. WELL VOLUME/FT (L): 0.605
E. WELL VOLUME (L) (C*D): 33.29
F. THREE WELL VOLUMES (L) (E*3): 99.9

Parameter	Beginning	1	2	3	4	5
Time (min)	0840	0845	0850	0855	0900	0905
Depth to Water (ft)	23.97	23.97	23.97	23.97	23.97	23.85
Purge Rate (L/min)	.2	.2	.2	.2	.2	.2
Volume Purged (L)	1	2	3	4	5	6
pH	7.35	9.15	9.85	10.14	10.47	10.61
Temperature (°C)	7.95	7.98	8.02	8.08	8.27	8.41
Conductivity (μmhos/cm)	60	59	68	72	74	80
Dissolved Oxygen (mg/L)	5.49	5.05	4.94	4.88	4.87	4.88
Turbidity (NTU)	46	53	65	67	68	70
Eh (mv)	370	288	254	240	221	213

TOTAL QUANTITY OF WATER REMOVED (L): 15

SAMPLERS: KS/RH
SAMPLING TIME (START/END): 0954-0959
SAMPLING DATE: 4/8/99
DECONTAMINATION FLUIDS USED: DI
SAMPLE TYPE: Grab
SAMPLE PRESERVATIVES: HCl
SAMPLE BOTTLE IDs: BN-14-EP-MW205
SAMPLE PARAMETERS: VOC

COMMENTS AND OBSERVATIONS: H_2O Containerized & disposed of at Treatment Plant

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING (OVERFLOW PAGE)

Site Name: NAS Brunswick	Project No.: 29600.47.7504 Date: 4/8/99
Well ID: MW-205	Field Personnel: KS/RH

Parameter	6	7 *	8	9	10	11
Time (min.)	0910	0915	0920	0925	0930	0935
Depth to Water (ft)	23.85	23.91	23.91	23.91	23.91	23.91
Purge Rate (L/min)	.2	.2	.2	.2	.2	.2
Volume Purged (L)	7	8	9	10	11	12
pH	10.76	10.77	8.06	9.53	10.17	10.39
Temperature (°C)	8.67	8.84	9.13	9.22	9.25	9.26
Conductivity (μmhos/cm)	75	88	77	77	73	73
Dissolved Oxygen (mg/L)	4.84	4.79	5.45	4.86	4.71	4.66
Turbidity (NTU)	61	56	53	45	44	43
Eh (mv)	194	185	189	182	177	172

Parameter	12	13	14	15	16	17
Time (min)	0940	0945	0950			
Depth to Water (ft)	23.91	23.91	23.91			
Purge Rate (L/min)	.2	.2	.2			
Volume Purged (L)	13	14	15			
pH	10.76	10.50	10.45			
Temperature (°C)	9.10	9.01	8.96			
Conductivity (μmhos/cm)	70	68	68			
Dissolved Oxygen (mg/L)	4.66	4.71	4.69			
Turbidity (NTU)	40	42	44			
Eh (mv)	167	166	164			

COMMENTS AND OBSERVATIONS * dump Flow Cell

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: NAS Brunswick
WELL I.D.: MW 207A
WELL CONDITION: Good

PROJECT NUMBER: 29600.47.7504
WELL LOCK STATUS: Locked
WEATHER: Cloudy ±40

GAUGE DATE: 4/8/99
SOUNDING METHOD: Slope Indicator
STICK UP/DOWN (ft): 2.50

GAUGE TIME: 1112
MEASUREMENT REF: TOC
WELL DIAMETER (in.): 2"

PURGE DATE: 4/8/9
PURGE METHOD: Low Flow
AMBIENT AIR VOCs (ppm) Start: 0.0 End: 0.0

PURGE TIME: 1115
FIELD PERSONNEL: CS/RH
WELL MOUTH VOCs (ppm): Start: 0.0 End: 0.0

WELL VOLUME

A. WELL DEPTH (ft): 75.55
B. DEPTH TO WATER (ft): 1.75
C. LIQUID DEPTH (ft) (A-B): 73.80

D. WELL VOLUME/FT (L): 0.605
E. WELL VOLUME (L) (C*D): 44.6
F. THREE WELL VOLUMES (L) (E*3): 133.8

Parameter	Beginning	1	2	3	4	5
Time (min)	1120	1125	1130	1133	1136	1139
Depth to Water (ft)	1.75	2.37	2.37	2.37	2.37	2.37
Purge Rate (L/min)	1.6	1.6	1.6	1.6	1.6	1.6
Volume Purged (L)	8	16	24	28.8	33.6	38.4
pH	6.77	6.94	6.83	6.79	6.71	6.70
Temperature (°C)	7.87	8.16	8.51	8.69	8.75	8.79
Conductivity (μmhos/cm)	161	155	134	129	119	118
Dissolved Oxygen (mg/L)	2.06	0.35	0.23	.19	.19	.18
Turbidity (NTU)	15	13	9	3	3	0
Eh (mv)	306	288	284	268	268	253

TOTAL QUANTITY OF WATER REMOVED (L): 38.4

SAMPLERS: CS/RH
SAMPLING TIME (START/END): 1141 - 1145
SAMPLING DATE: 4/8/99
DECONTAMINATION FLUIDS USED: DI
SAMPLE TYPE: Grab
SAMPLE PRESERVATIVES: HCl
SAMPLE BOTTLE IDs: BN-14-EP-MW207A
SAMPLE PARAMETERS: VOC

COMMENTS AND OBSERVATIONS: Water in well full up to Top of PVC
Purge water containerized and disposed of at treatment plant

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: NAS Brunswick
WELL I.D.: MW-224
WELL CONDITION: Good

PROJECT NUMBER: 29600.47.7504
WELL LOCK STATUS: Locked
WEATHER: P. Cloudy ≑45°

GAUGE DATE: 4/7/99
SOUNDING METHOD: Slope Indicator
STICK UP/DOWN (ft): 2.55

GAUGE TIME: 1307
MEASUREMENT REF: TOC
WELL DIAMETER (in.): 2"

PURGE DATE: 4/7/99
PURGE METHOD: Low Flow
AMBIENT AIR VOCs (ppm) Start: 0.0 End: 0.0

PURGE TIME: 1310
FIELD PERSONNEL: KS/RH
WELL MOUTH VOCs (ppm): Start: 0.1 End: 0.0

WELL VOLUME

A. WELL DEPTH (ft): 46.01
B. DEPTH TO WATER (ft): 26.56
C. LIQUID DEPTH (ft) (A-B): 19.45

D. WELL VOLUME/FT (L): 0.605
E. WELL VOLUME (L) (C*D): 11.8
F. THREE WELL VOLUMES (L) (E*3): 35.4

Parameter	Beginning	1	2	3	4	5
Time (min)	1315	1320	1325	1330	1335	1340
Depth to Water (ft)	26.56	26.56	26.56	26.60	26.60	26.60
Purge Rate (L/min)	.2	.2	.2	.2	.2	.2
Volume Purged (L)	1	2	3	4	5	6
pH	1.20	4.00	4.81	5.10	5.43	5.50
Temperature (°C)	8.77	9.00	10.61	11.49	12.63	12.85
Conductivity (μmhos/cm)	56	54	55	60	62	64
Dissolved Oxygen (mg/L)	13.13	12.59	11.85	11.67	11.16	11.19
Turbidity (NTU)	1	2	6	11	24	33
Eh (mv)	490	365	309	292	276	273

TOTAL QUANTITY OF WATER REMOVED (L): 8.2

SAMPLERS: KS/RH
SAMPLING TIME (START/END): 1354-1359
SAMPLING DATE: 4/7/99
DECONTAMINATION FLUIDS USED: DI
SAMPLE TYPE: Grab
SAMPLE PRESERVATIVES: HCl
SAMPLE BOTTLE IDs: BN-14-EP-MW224
SAMPLE PARAMETERS: VOC

COMMENTS AND OBSERVATIONS: Water Containerized and disposed of @ Treatment plant

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING (OVERFLOW PAGE)

Site Name: NAS Brunswick	Project No.: 29600.47	Date: 4/7/99
Well ID: MW-22A	Field Personnel: CS/RH	

Parameter	6	7	8	9	10	11
Time (min.)	1345	1348	1351			
Depth to Water (ft)	26.60	26.61	26.61			
Purge Rate (L/min)	.2	.2	.2			
Volume Purged (L)	7	7.6	8.2			
pH	5.55	5.57	5.58			
Temperature (°C)	13.10	13.26	13.40			
Conductivity (μmhos/cm)	61	60	60			
Dissolved Oxygen (mg/L)	11.10	10.70	10.60			
Turbidity (NTU)	45	47	49			
Eh (mv)	271	272	273			

Parameter	12	13	14	15	16	17
Time (min)						
Depth to Water (ft)						
Purge Rate (L/min)						
Volume Purged (L)						
pH						
Temperature (°C)						
Conductivity (μmhos/cm)						
Dissolved Oxygen (mg/L)						
Turbidity (NTU)						
Eh (mv)						

COMMENTS AND OBSERVATIONS _____

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: NAS Brunswick
WELL I.D.: MW-225A
WELL CONDITION: Good

PROJECT NUMBER: 29600.47.7504
WELL LOCK STATUS: Locked
WEATHER: M. Cloudy ±40

GAUGE DATE: 4/7/99
SOUNDING METHOD: Slope Indicator
STICK UP/DOWN (ft): 2.81

GAUGE TIME: 1055
MEASUREMENT REF: TOC
WELL DIAMETER (in.): 2"

PURGE DATE: 4/7/99
PURGE METHOD: Low Flow
AMBIENT AIR VOCs (ppm) Start: 0.0 End: 0.0

PURGE TIME: 1100
FIELD PERSONNEL: KS/RH
WELL MOUTH VOCs (ppm): Start: 0.5 End: 0.0

WELL VOLUME

A. WELL DEPTH (ft): 76.03
B. DEPTH TO WATER (ft): 19.57
C. LIQUID DEPTH (ft) (A-B): 56.46

D. WELL VOLUME/FT (L): 0.605
E. WELL VOLUME (L) (C*D): 34.2
F. THREE WELL VOLUMES (L) (E*3): 102.6

Parameter	Beginning	1	2	3	4 *	5
Time (min)	1105	1110	1115	1120	1125	1130
Depth to Water (ft)	19.57	19.57	19.52	19.52	19.53	19.53
Purge Rate (L/min)	.2	.2	.2	.2	.2	.2
Volume Purged (L)	1	2	3	4	5	6
pH	2.67	5.10	3.06	3.40	5.61	5.75
Temperature (°C)	8.58	8.56	9.50	9.72	9.34	8.43
Conductivity (μmhos/cm)	80	90	92	94	79	75
Dissolved Oxygen (mg/L)	9.16	9.02	8.97	9.00	9.28	8.68
Turbidity (NTU)	KS ~~6.67~~	17	17	20	31	16
Eh (mv)	257	207	277	284	260	218

TOTAL QUANTITY OF WATER REMOVED (L): 9.8

SAMPLERS: KS/RH
SAMPLING TIME (START/END): 1153 - 1158
SAMPLING DATE: 4/7/99
DECONTAMINATION FLUIDS USED: DI
SAMPLE TYPE: Grab
SAMPLE PRESERVATIVES: HCl
SAMPLE BOTTLE IDs: BN-14-EP-MW225A
SAMPLE PARAMETERS: VOC

COMMENTS AND OBSERVATIONS: * Empty Flow cell

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING (OVERFLOW PAGE)

Site Name: NAS Brunswick	Project No.: 29	Date: 4/7/99
Well ID: MW-225A	Field Personnel: KS/RH	

Parameter	6	7	8	9	10	11
Time (min.)	1135	1140	1143	1146	1149	
Depth to Water (ft)	19.53	19.54	19.54	19.54	19.54	
Purge Rate (L/min)	.2	.2	.2	.2	.2	
Volume Purged (L)	7	8	8.6	9.2	9.8	
pH	5.90	6.00	6.04	6.05	6.10	
Temperature (°C)	8.52	8.85	9.07	9.20	9.30	
Conductivity (μmhos/cm)	70	71	70	71	72	
Dissolved Oxygen (mg/L)	8.45	8.46	8.40	8.44	8.40	
Turbidity (NTU)	13	9	10	6	5	
Eh (mv)	203	196	195	194	193	

Parameter	12	13	14	15	16	17
Time (min)						
Depth to Water (ft)						
Purge Rate (L/min)						
Volume Purged (L)						
pH						
Temperature (°C)						
Conductivity (μmhos/cm)						
Dissolved Oxygen (mg/L)						
Turbidity (NTU)						
Eh (mv)						

COMMENTS AND OBSERVATIONS _____

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: EASTERN PLUME
WELL I.D.: MW-229A
WELL CONDITION: GOOD

PROJECT NUMBER: 29600 47.7504
WELL LOCK STATUS: GOOD
WEATHER: PC, 50°F, BREEZY

GAUGE DATE: 04/07/99
SOUNDING METHOD: slope indicator
STICK UP/DOWN (ft): 2.55

GAUGE TIME: 09 32
MEASUREMENT REF: TOC
WELL DIAMETER (in.): 2in

PURGE DATE: 4/7/99
PURGE METHOD: low flow
AMBIENT AIR VOCs (ppm) Start: 0.0 End: 0.0

PURGE TIME: 09 33
FIELD PERSONNEL: JG/BA
WELL MOUTH VOCs (ppm): Start: 0.0 End: 0.0

WELL VOLUME

A. WELL DEPTH (ft): 64.97
B. DEPTH TO WATER (ft): 13.31
C. LIQUID DEPTH (ft) (A-B): 51.66
D. WELL VOLUME/FT (L): 0.605
E. WELL VOLUME (L) (C*D): 31.3
F. THREE WELL VOLUMES (L) (E*3): 93.9

Parameter	Beginning	1	2	3	4	5
Time (min)	09 33	09 38	09 43	09 48	09 53	
Depth to Water (ft)	13.31	13.40	13.40	13.42	13.	
Purge Rate (L/min)	0.2	0.2	0.2	0.2	0.2	
Volume Purged (L)	—	1	2	3	4	
pH	7.91	7.72	7.62	7.53	7.48	
Temperature (°C)	6.91	7.22	7.25	7.39	7.67	
Conductivity (μmhos/cm)	109	95	81	74	75	
Dissolved Oxygen (mg/L)	58	50	48	46	46	
Turbidity (NTU)	0	0	5	3	3	
Eh (mv)	155	173	178	178	176	

TOTAL QUANTITY OF WATER REMOVED (L): 4

SAMPLERS: BA/JG
SAMPLING TIME (START/END): 09 53
SAMPLING DATE: 4/7/99
DECONTAMINATION FLUIDS USED: DI
SAMPLE TYPE: GRAB
SAMPLE PRESERVATIVES: HCl
SAMPLE BOTTLE IDs: ~~BNAB~~ 14-EP-MW 229A
SAMPLE PARAMETERS: VOC by 8260
COMMENTS AND OBSERVATIONS: problem w/DO probe recalibrated Following Sampling

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: NAS Brunswick
WELL I.D.: MW-230A
WELL CONDITION: Good

PROJECT NUMBER: 29600.47.7504
WELL LOCK STATUS: Locked
WEATHER: P. Sunny

GAUGE DATE: 4/7/99
SOUNDING METHOD: Slope Indicator
STICK UP/DOWN (ft): 2.21

GAUGE TIME: 0912
MEASUREMENT REF: TOC
WELL DIAMETER (in.): 2"

PURGE DATE: 4/7/99
PURGE METHOD: Low Flow
AMBIENT AIR VOCs (ppm) Start: 0.0 End: 0.0

PURGE TIME: 0915
FIELD PERSONNEL: KS/RH
WELL MOUTH VOCs (ppm): Start: 0.1 End: 6.1

WELL VOLUME

A. WELL DEPTH (ft): 81.49
B. DEPTH TO WATER (ft): 15.66
C. LIQUID DEPTH (ft) (A-B): 65.83
D. WELL VOLUME/FT (L): 0.605
E. WELL VOLUME (L) (C*D): 39.3
F. THREE WELL VOLUMES (L) (E*3): 117.9

Parameter	Beginning	1	2	3	4	5
Time (min)	0920	0925	0930	0935	0940	0945
Depth to Water (ft)	15.66	15.50	15.50	15.50	15.50	15.50
Purge Rate (L/min)	.2	.2	.2	.2	.2	.2
Volume Purged (L)	1	2	3	4	5	6
pH	7.57	7.47	7.53	7.59	7.62	7.65
Temperature (°C)	7.42	7.55	7.85	8.38	8.59	8.77
Conductivity (μmhos/cm)	71	68	64	64	64	67
Dissolved Oxygen (mg/L)	2.19	0.67	1.02	1.03	0.79	0.61
Turbidity (NTU)	96	133	137	110	99	85
Eh (mv)	45	-63	-90	-99	-103	-106

TOTAL QUANTITY OF WATER REMOVED (L): 14

SAMPLERS: KS/RH
SAMPLING TIME (START/END): 1028 - 1034
SAMPLING DATE: 4/7/99
DECONTAMINATION FLUIDS USED: DI
SAMPLE TYPE: Grab
SAMPLE PRESERVATIVES: HCl
SAMPLE BOTTLE IDs: BN-14-EP-MW230A BN-14-EP-MW XD2
SAMPLE PARAMETERS: VOC

COMMENTS AND OBSERVATIONS:

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING (OVERFLOW PAGE)

Site Name: NAS Brunswick	Project No.: 29600.47	Date: 4/7/99
Well ID: MW-230A	Field Personnel: KS/RH	

Parameter	6	7	8	9	10	11
Time (min.)	0950	0955	1000	1005	1010	1015
Depth to Water (ft)	15.50	15.50	15.50	15.50	15.50	15.50
Purge Rate (L/min)	.2	.2	.2	.2	.2	.2
Volume Purged (L)	7	8	9	10	11	12
pH	7.69	7.71	7.73	7.76	7.77	7.79
Temperature (°C)	8.92	9.01	9.09	9.18	9.27	9.35
Conductivity (μmhos/cm)	78	70	70	70	72	70
Dissolved Oxygen (mg/L)	0.53	0.48	0.36	0.28	0.32	0.29
Turbidity (NTU)	70	62	56	50	46	45
Eh (mv)	-109	-112	-113	-114	-116	-116

Parameter	12	13	14	15	16	17
Time (min)	1020	1025				
Depth to Water (ft)	15.50	15.50				
Purge Rate (L/min)	.2	.2				
Volume Purged (L)	13	14				
pH	7.79	7.78				
Temperature (°C)	9.40	9.40				
Conductivity (μmhos/cm)	71	70				
Dissolved Oxygen (mg/L)	0.28	0.27				
Turbidity (NTU)	44	43				
Eh (mv)	-117	-117				

COMMENTS AND OBSERVATIONS _____

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: NAS Brunswick
WELL I.D.: MW-231A
WELL CONDITION: Good

PROJECT NUMBER: 29600.47.7504
WELL LOCK STATUS: Locked
WEATHER: Sunny ±40

GAUGE DATE: 4/6/99
SOUNDING METHOD: Slope Indicator
STICK UP/DOWN (ft): 2.65

GAUGE TIME: 0835
MEASUREMENT REF: TOC
WELL DIAMETER (in.): 2"

PURGE DATE: 4/6/99
PURGE METHOD: Low Flow
AMBIENT AIR VOCs (ppm) Start: Ø End: Ø

PURGE TIME: 0835
FIELD PERSONNEL: KS/RH
WELL MOUTH VOCs (ppm): Start: Ø End: Ø

WELL VOLUME

A. WELL DEPTH (ft): 61.19
B. DEPTH TO WATER (ft): 20.15
C. LIQUID DEPTH (ft) (A-B): 41.04

D. WELL VOLUME/FT (L): 0.605
E. WELL VOLUME (L) (C*D): 24.8
F. THREE WELL VOLUMES (L) (E*3): 74.4

Parameter	Beginning	1	2	3	4	5
Time (min)	0840	0845	0850	0855	0900	0905
Depth to Water (ft)	20.15	20.35	20.35	20.26	20.26	20.26
Purge Rate (L/min)	.2	.2	.2	.2	.2	.2
Volume Purged (L)	1	2	3	4	5	6
pH	5.45	3.33	4.38	5.18	5.79	3.43
Temperature (°C)	6.89	7.92	8.46	8.70	9.15	9.87
Conductivity (μmhos/cm)	49	47	46	46	42	43
Dissolved Oxygen (mg/L)	12.3	13.32	12.47	11.48	11.30	11.33
Turbidity (NTU)	49	94	150	127	202	183
Eh (mv)	243	390	315	305	298	360

TOTAL QUANTITY OF WATER REMOVED (L): 19.8

SAMPLERS: KS/RH
SAMPLING TIME (START/END): 1006-1014
SAMPLING DATE: 4/6/99
DECONTAMINATION FLUIDS USED: DI
SAMPLE TYPE: Grab
SAMPLE PRESERVATIVES: HCl
SAMPLE BOTTLE IDs: BN-14-EP-MW231A MS/MSD and BN-14-EP-MW231 DUP
SAMPLE PARAMETERS: VOC

COMMENTS AND OBSERVATIONS: Clean Flow cell several times - clean optics
DO DUP and MS/MSD

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING (OVERFLOW PAGE)

Site Name: NAS Brunswick	Project No.: 29600.47	Date: 4/6/99
Well ID: MW-231A	Field Personnel: KGIRH	

Parameter	6	7	8	9	10	11
Time (min.)	0910	0915	0920	0925	0930	0935
Depth to Water (ft)	20.26	20.26	20.37	20.47	20.43	20.49
Purge Rate (L/min)	.2	.2	.2	.2	.2	.2
Volume Purged (L)	7	8	9	10	11	12
pH	1.80	3.57	1.32	1.57	1.70	4.17
Temperature (°C)	10.09	10.04	10.00	10.18	11.43	11.23
Conductivity (μmhos/cm)	45	48	45	45	47	46
Dissolved Oxygen (mg/L)	11.95	11.45	12.30	12.04	12.12	11.77
Turbidity (NTU)	179	162	135	222	195	106
Eh (mv)	399	365	422	426	393	388

Parameter	12	13	14	15	16	17
Time (min)	0940	0945	0950	0955	1000	
Depth to Water (ft)	20.49	20.49	20.49	20.49	20.53	
Purge Rate (L/min)	.2	.2	.2	.2	.2	
Volume Purged (L)	13	14	15	16	17	
pH	5.13	5.32	5.11	5.14	5.57	
Temperature (°C)	11.23	11.26	11.32	11.35	11.35	
Conductivity (μmhos/cm)	47	44	47	46	46	
Dissolved Oxygen (mg/L)	11.75	11.80	12.08	11.92	11.72	
Turbidity (NTU)	93	97	96	99	102	
Eh (mv)	370	370	402	374	360	

COMMENTS AND OBSERVATIONS _____

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: NAS Brunswick
PROJECT NUMBER: 29600.47.7504
WELL I.D.: MW-231B
WELL LOCK STATUS: Locked
WELL CONDITION: Good
WEATHER: Sunny ± 45

GAUGE DATE: 4/6/99
GAUGE TIME: 1033
SOUNDING METHOD: Slope Indicator
MEASUREMENT REF: TOC
STICK UP/DOWN (ft): 3.60
WELL DIAMETER (in.): 2"

PURGE DATE: 4/6/99
PURGE TIME: 1035
PURGE METHOD: Low Flow
FIELD PERSONNEL: KJ/RH
AMBIENT AIR VOCs (ppm) Start: 0.0 End: 0.0
WELL MOUTH VOCs (ppm): Start: 0.1 End: 0.0

WELL VOLUME

A. WELL DEPTH (ft): 37.79
B. DEPTH TO WATER (ft): 25.72
C. LIQUID DEPTH (ft) (A-B): 12.07
D. WELL VOLUME/FT (L): 0.605
E. WELL VOLUME (L) (C*D): 7.3
F. THREE WELL VOLUMES (L) (E*3): 21.9

Parameter	Beginning	1	2	3	4	5
Time (min)	1040	1045	1050	1055	1100	1105
Depth to Water (ft)	25.72	25.22	25.22	25.15	25.18	25.16
Purge Rate (L/min)	.2	.2	.2	.2	.2	.2
Volume Purged (L)	1	2	3	4	5	6
pH	3.00	4.91	5.75	4.40	5.44	5.44
Temperature (°C)	9.45	8.83	11.20	13.03	13.35	13.93
Conductivity (μmhos/cm)	48	50	50	53	52	57
Dissolved Oxygen (mg/L)	13.34	13.77	13.24	13.50	13.35	13.05
Turbidity (NTU)	190	100	77	36	25	19
Eh (mv)	364	326	306	344	322	304

TOTAL QUANTITY OF WATER REMOVED (L): 15

SAMPLERS: KJ/RH
SAMPLING TIME (START/END): 1150
SAMPLING DATE: 4/6/99
DECONTAMINATION FLUIDS USED: DI
SAMPLE TYPE: Grab
SAMPLE PRESERVATIVES: HCl
SAMPLE BOTTLE IDs: BN-14-EP-MW231B
SAMPLE PARAMETERS: VOC

COMMENTS AND OBSERVATIONS: Pump shut down 2X - pluged up with silt
* Pump must have blown out silt clog - Flow increased quick, thus temp fluctuation as well as other parameters - Water visually clear take sample

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING (OVERFLOW PAGE)

Site Name: NAS Brunswick	Project No.: 29600.47	Date: 4/6/99
Well ID: MW-231B	Field Personnel: KSRH	

Parameter	6	7	8	9	* 10	11
Time (min.)	1110	1115	1120	1125	1130	1135
Depth to Water (ft)	25.10	25.10	25.10	25.10	25.19	25.19
Purge Rate (L/min)	.2	.2	.2	.2	.2	.2
Volume Purged (L)	7	8	9	10	11	12
pH	5.76	6.09	6.04	5.85	5.96	5.38
Temperature (°C)	14.02	14.41	15.00	20.96	16.00	11.43
Conductivity (μmhos/cm)	57	55	63	63	59	49
Dissolved Oxygen (mg/L)	12.90	12.40	12.10	11.70	12.00	13.32
Turbidity (NTU)	60	60	95	113	85	114
Eh (mv)	290	274	268	263	267	296

Parameter	12	13	14	15	16	17
Time (min)	1140	1145				
Depth to Water (ft)	25.19	25.22 KS				
Purge Rate (L/min)	.2	.2				
Volume Purged (L)	13	14				
pH	5.52	5.54				
Temperature (°C)	11.46	11.50				
Conductivity (μmhos/cm)	47	46				
Dissolved Oxygen (mg/L)	13.40	13.00				
Turbidity (NTU)	210	301				
Eh (mv)	281	276				

COMMENTS AND OBSERVATIONS * See page 1

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: Eastern Plume
WELL I.D.: MW-303
WELL CONDITION: Good

PROJECT NUMBER: 29600.47
WELL LOCK STATUS: Good
WEATHER: clear, sunny.

GAUGE DATE: 4/6/99
SOUNDING METHOD: slope indicator
STICK UP/DOWN (ft): 1.81

GAUGE TIME: 1530
MEASUREMENT REF: TOC
WELL DIAMETER (in.): 2"

PURGE DATE: 4/6/99
PURGE METHOD: Low flow
AMBIENT AIR VOCs (ppm) Start: 0.0 End: 0.0

PURGE TIME: 1536
FIELD PERSONNEL: JG, BA
WELL MOUTH VOCs (ppm): Start: 0.0 End: 0.0

WELL VOLUME

A. WELL DEPTH (ft): 72.75
B. DEPTH TO WATER (ft): 11.65
C. LIQUID DEPTH (ft) (A-B): 61.1

D. WELL VOLUME/FT (L): 0.605
E. WELL VOLUME (L) (C*D): 37
F. THREE WELL VOLUMES (L) (E*3): 111

Parameter	Beginning	1	2	3	4	5
Time (min)	1540	1545	1550	1555	1600	1603
Depth to Water (ft)	11.65	11.65	11.65	11.65	11.65	11.65
Purge Rate (L/min)	.2	.2	.2	.2	.2	.2
Volume Purged (L)	.8	1.8	2.8	3.8	4.8	5.8
pH	5.69	5.72	6.70	7.11	7.31	7.39
Temperature (°C)	7.30	7.01	6.89	6.84	6.85	6.87
Conductivity (μmhos/cm)	156	154	155	155	156	157
Dissolved Oxygen (mg/L)	5.29	3.31	1.76	1.31	1.08	1.02
Turbidity (NTU)	2	1	2	2	1	1
Eh (mv)	454	416	394	381	371	368

TOTAL QUANTITY OF WATER REMOVED (L): 7

SAMPLERS: JG, BA
SAMPLING TIME (START/END): 1610
SAMPLING DATE: 4/6/99
DECONTAMINATION FLUIDS USED: DI
SAMPLE TYPE: Grab
SAMPLE PRESERVATIVES: HCL
SAMPLE BOTTLE IDs: BN-14-EP-MW303
SAMPLE PARAMETERS: VOC 8260

COMMENTS AND OBSERVATIONS:

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING (OVERFLOW PAGE)

Site Name: EASTERN Plume	Project No.: 29600.47	Date: 4/6/99
Well ID: MW-303	Field Personnel: JG BA	

Parameter	6	7	8	9	10	11
Time (min.)	1606					
Depth to Water (ft)	11.65					
Purge Rate (L/min)	.2					
Volume Purged (L)	6.0					
pH	7.44					
Temperature (°C)	6.93					
Conductivity (μmhos/cm)	157					
Dissolved Oxygen (mg/L)	0.95					
Turbidity (NTU)	1					
Eh (mv)	364					

Parameter	12	13	14	15	16	17
Time (min)						
Depth to Water (ft)						
Purge Rate (L/min)						
Volume Purged (L)						
pH						
Temperature (°C)						
Conductivity (μmhos/cm)						
Dissolved Oxygen (mg/L)						
Turbidity (NTU)						
Eh (mv)						

COMMENTS AND OBSERVATIONS _____

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: NAS Brunswick
WELL I.D.: mw-305
WELL CONDITION: Good

PROJECT NUMBER: 29600.47.7504
WELL LOCK STATUS: Locked
WEATHER: Sunny ±45

GAUGE DATE: 4/6/99
SOUNDING METHOD: Slope Indicator
STICK UP/DOWN (ft): 2.70

GAUGE TIME: 1612
MEASUREMENT REF: TOC
WELL DIAMETER (in.): 2"

PURGE DATE: 4/6/99
PURGE METHOD: Low flow
AMBIENT AIR VOCs (ppm) Start: 0.0 End: 0.0

PURGE TIME: 1615
FIELD PERSONNEL: KB/RH
WELL MOUTH VOCs (ppm): Start: 0.0 End: 0.0

WELL VOLUME

A. WELL DEPTH (ft): 53.51
B. DEPTH TO WATER (ft): 11.90
C. LIQUID DEPTH (ft) (A-B): 41.61

D. WELL VOLUME/FT (L): 0.605
E. WELL VOLUME (L) (C*D): 25.2
F. THREE WELL VOLUMES (L) (E*3): 75.6

Parameter	Beginning	1	2	3	4	5
Time (min)	1620	1625	1630	1635	1640	1645
Depth to Water (ft)	11.90	KB 13.99	13.98	14.27	14.27	14.27
Purge Rate (L/min)	.2	.2	.2	.2	.2	.2
Volume Purged (L)	1	2	3	4	5	6
pH	4.00	1.90	4.75	6.05	5.61	7.17
Temperature (°C)	7.55	7.17	7.31	7.73	8.21	8.46
Conductivity (μmhos/cm)	94	125	127	65	84	89
Dissolved Oxygen (mg/L)	4.36	1.29	0.44	0.41	0.17	0.21
Turbidity (NTU)	47	469	405	309	159	132
Eh (mv)	306	278	255	238	231	208

TOTAL QUANTITY OF WATER REMOVED (L): 10

SAMPLERS: KB/RH
SAMPLING TIME (START/END): 1700-1705
SAMPLING DATE: 4/6/99
DECONTAMINATION FLUIDS USED: DI
SAMPLE TYPE: Grab
SAMPLE PRESERVATIVES: HCl
SAMPLE BOTTLE IDs: BN-14-EP-MW305
SAMPLE PARAMETERS: VOC

COMMENTS AND OBSERVATIONS:
Recalibrated YSI lunchtime for Cond and checked all functions for other parameters

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING (OVERFLOW PAGE)

Site Name: NAS Brunswick	Project No.: 29600.47	Date: 4/6/99
Well ID: MW-305	Field Personnel: KS/RH	

Parameter	6	7	8	9	10	11
Time (min.)	1650	1655	1658			
Depth to Water (ft)	14.29	14.29	14.29			
Purge Rate (L/min)	.2	.2	.2			
Volume Purged (L)	7	8	8.6			
pH	7.49	7.17	7.09			
Temperature (°C)	8.90	9.00	8.93			
Conductivity (μmhos/cm)	126	121	119			
Dissolved Oxygen (mg/L)	0.20	0.20	0.21			
Turbidity (NTU)	55	64	72			
Eh (mv)	190	198	194			

Parameter	12	13	14	15	16	17
Time (min)						
Depth to Water (ft)						
Purge Rate (L/min)						
Volume Purged (L)						
pH						
Temperature (°C)						
Conductivity (μmhos/cm)						
Dissolved Oxygen (mg/L)						
Turbidity (NTU)						
Eh (mv)						

COMMENTS AND OBSERVATIONS

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: NAS Brunswick
PROJECT NUMBER: 29600.47.7504
WELL I.D.: MW-306
WELL LOCK STATUS: Locked
WELL CONDITION: Good
WEATHER: Sunny ± 50

GAUGE DATE: 4/7/99
GAUGE TIME: 1432
SOUNDING METHOD: Slope Indicator
MEASUREMENT REF: TOC
STICK UP/DOWN (ft): 2.35
WELL DIAMETER (in.): 2"

PURGE DATE: 4/7/99
PURGE TIME: 1435
PURGE METHOD: Low Flow
FIELD PERSONNEL: KS/RH
AMBIENT AIR VOCs (ppm) Start: 0.0 End: 0.0
WELL MOUTH VOCs (ppm): Start: 0.0 End: 0.0

WELL VOLUME

A. WELL DEPTH (ft): 56.98
B. DEPTH TO WATER (ft): 17.92
C. LIQUID DEPTH (ft) (A-B): 39.06
D. WELL VOLUME/FT (L): 0.605
E. WELL VOLUME (L) (C*D): 23.6
F. THREE WELL VOLUMES (L) (E*3): 70.8

Parameter	Beginning	1	2	3	4	5
Time (min)	1440	1445	1450	1455	1458	1501
Depth to Water (ft)	17.92	17.92	17.92	17.81	17.81	17.81
Purge Rate (L/min)	.2	.2	.2	.2	.2	.2
Volume Purged (L)	1	2	3	4	4.6	5.2
pH	2.27	5.25	5.61	5.80	5.90	5.90
Temperature (°C)	8.04	8.12	8.52	9.09	9.40	9.54
Conductivity (μmhos/cm)	45	40	47	45	45	46
Dissolved Oxygen (mg/L)	12.04	11.69	11.82	11.76	11.65	11.53
Turbidity (NTU)	16	17	13	9	7	5
Eh (mv)	471	266	240	235	232	231

TOTAL QUANTITY OF WATER REMOVED (L): 5.2

SAMPLERS: KS/RH
SAMPLING TIME (START/END): 1506 - 1510
SAMPLING DATE: 4/7/99
DECONTAMINATION FLUIDS USED: DI
SAMPLE TYPE: Grab
SAMPLE PRESERVATIVES: HCl
SAMPLE BOTTLE IDs: BN-14-EP-MW306
SAMPLE PARAMETERS: VOC

COMMENTS AND OBSERVATIONS:

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: NAS Brunswick
PROJECT NUMBER: 29600.47.7504
WELL I.D.: MW-308
WELL LOCK STATUS: Locked
WELL CONDITION: Good
WEATHER: Sunny ±45

GAUGE DATE: 4/8/99
GAUGE TIME: 1352
SOUNDING METHOD: Slope Indicator
MEASUREMENT REF: TOC
STICK UP/DOWN (ft): 2.44
WELL DIAMETER (in.): 2"

PURGE DATE: 4/8/99
PURGE TIME: 1355
PURGE METHOD: Low Flow
FIELD PERSONNEL: KS/RH
AMBIENT AIR VOCs (ppm) Start: 0.0 End: 0.0
WELL MOUTH VOCs (ppm): Start: 0.0 End: 0.0

WELL VOLUME

A. WELL DEPTH (ft): 73.25
B. DEPTH TO WATER (ft): 5.10
C. LIQUID DEPTH (ft) (A-B): 68.15
D. WELL VOLUME/FT (L): 0.605
E. WELL VOLUME (L) (C*D): 41.2
F. THREE WELL VOLUMES (L) (E*3): 123.6

Parameter	Beginning	1	2	3	4	5
Time (min)	1400	1405	1408	1411	1414	1417
Depth to Water (ft)	5.10	5.10	5.10	5.10	5.10	5.10
Purge Rate (L/min)	.2	.2	.2	.2	.2	.2
Volume Purged (L)	1	2	2.6	3.2	3.8	4.4
pH	3.20	7.07	7.37	7.91	8.07	8.30
Temperature (°C)	8.18	8.58	8.71	8.93	9.02	9.14
Conductivity (μmhos/cm)	590	595	597	597	603	602
Dissolved Oxygen (mg/L)	0.51	0.34	0.33	0.28	0.26	0.26
Turbidity (NTU)	0	0	0	0	0	0
Eh (mv)	26	-62	-69	-82	-88	-90

TOTAL QUANTITY OF WATER REMOVED (L): 4.4

SAMPLERS: KS/RH
SAMPLING TIME (START/END): 1420-1428
SAMPLING DATE: 4/8/98
DECONTAMINATION FLUIDS USED: DI
SAMPLE TYPE: Grab
SAMPLE PRESERVATIVES: HCl
SAMPLE BOTTLE IDs: BN-14-EP-mw308
SAMPLE PARAMETERS: VOC

COMMENTS AND OBSERVATIONS: collect MS/MSD
collect BN-14-EP-MWXD3

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: NAS Brunswick
WELL I.D.: mw-309B
WELL CONDITION: Good

PROJECT NUMBER: 29600.47.7504
WELL LOCK STATUS: Locked
WEATHER: Sunny ±50

GAUGE DATE: 4/8/99
SOUNDING METHOD: Slope Indicator
STICK UP/DOWN (ft): 2.42

GAUGE TIME: 1459
MEASUREMENT REF: TOC
WELL DIAMETER (in.): 2"

PURGE DATE: 4/8/99
PURGE METHOD: Low Flow
AMBIENT AIR VOCs (ppm) Start: 0.0 End: 0.0

PURGE TIME: 1500
FIELD PERSONNEL: KS/RH
WELL MOUTH VOCs (ppm): Start: 0.0 End: 0.0

WELL VOLUME

A. WELL DEPTH (ft): 59.25
B. DEPTH TO WATER (ft): 2.19
C. LIQUID DEPTH (ft) (A-B): 57.06

D. WELL VOLUME/FT (L): 0.605
E. WELL VOLUME (L) (C*D): 34.5
F. THREE WELL VOLUMES (L) (E*3): 103.5

Parameter	Beginning	1	2	3	4	5
Time (min)	1505	1510	1515	1520	1525	1530
Depth to Water (ft)	2.19	2.19	4.80	6.00	9.30	12.42
Purge Rate (L/min)	.2	.2	.2	.2	.2	.2
* Volume Purged (L)	1	2	3	4	5	6
pH	5.70	7.27	8.04	8.25	8.37	8.47
Temperature (°C)	8.75	8.90	8.36	9.18	9.55	9.60
Conductivity (μmhos/cm)	198	192	185	188	190	195
Dissolved Oxygen (mg/L)	0.46	0.26	0.15	0.11	0.10	0.10
Turbidity (NTU)	3	14	47	34	22	15
Eh (mv)	231	204	-9	-51	-62	-68

TOTAL QUANTITY OF WATER REMOVED (L): 11.2

SAMPLERS: KS/RH
SAMPLING TIME (START/END): 1559-1605
SAMPLING DATE: 4/8/99
DECONTAMINATION FLUIDS USED: DI
SAMPLE TYPE: Grab
SAMPLE PRESERVATIVES: HCl
SAMPLE BOTTLE IDs: BN-14-EP-mw309B
SAMPLE PARAMETERS: VOC

COMMENTS AND OBSERVATIONS: *Hard to keep water flowing- have to keep adjusting pump

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING (OVERFLOW PAGE)

Site Name: NAS Brunswick	Project No.: 29600.47 7504 Date: 4/8/99
Well ID: MW-309B	Field Personnel: KS/PH

Parameter	6	7	8	9	10	11
Time (min.)	1535	1540	1545	1550	1553	1556
Depth to Water (ft)	15.36	18.86	22.22	26.20	28.25	28.90
Purge Rate (L/min)	.2	.2	.2	.2	.2	.2
Volume Purged (L)	7	8	9	10	10.6	11.2
pH	8.52	8.56	8.58	8.56	8.59	8.53
Temperature (°C)	10.06	11.01	11.10	11.46	11.34	11.43
Conductivity (μmhos/cm)	194	199	201	188	196	200
Dissolved Oxygen (mg/L)	0.12	0.09	0.11	0.10	0.10	0.11
Turbidity (NTU)	15	13	11	9	9	8
Eh (mv)	-73	-75	-80	-80	-80	-79

Parameter	12	13	14	15	16	17
Time (min)						
Depth to Water (ft)						
Purge Rate (L/min)						
Volume Purged (L)						
pH						
Temperature (°C)						
Conductivity (μmhos/cm)						
Dissolved Oxygen (mg/L)						
Turbidity (NTU)						
Eh (mv)						

COMMENTS AND OBSERVATIONS _____

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: Eastern Plume
PROJECT NUMBER: 29600.47
WELL I.D.: MW-311
WELL LOCK STATUS: Good
WELL CONDITION: Good
WEATHER: overcast, breezy

GAUGE DATE: 4/7/99
GAUGE TIME: 1216
SOUNDING METHOD: Slope indicator
MEASUREMENT REF: TOC
STICK UP/DOWN (ft): 2.30
WELL DIAMETER (in.): 2"

PURGE DATE: 4/7/99
PURGE TIME: 1217
PURGE METHOD: Low flow
FIELD PERSONNEL: JL, AA
AMBIENT AIR VOCs (ppm) Start: 0.0 End: 0.0
WELL MOUTH VOCs (ppm): Start: 0.0 End: 0.0

WELL VOLUME

A. WELL DEPTH (ft): 56.25
B. DEPTH TO WATER (ft): 18.29
C. LIQUID DEPTH (ft) (A-B): 37.96
D. WELL VOLUME/FT (L): 0.605
E. WELL VOLUME (L) (C*D): 23
F. THREE WELL VOLUMES (L) (E*3): 69

Parameter	Beginning	1	2	3	4	5
Time (min)	1221	1226	1231	1236	1241	1246
Depth to Water (ft)	18.32	18.95	18.98	18.99	19.05	19.16
Purge Rate (L/min)	.2	.2	.2	.2	.2	.2
Volume Purged (L)	.8	1.8	2.8	3.8	4.8	5.8
pH	4.55	6.57	7.42	7.72	7.82	7.85
Temperature (°C)	8.14	7.91	8.44	9.04	9.32	9.88
Conductivity (μmhos/cm)	92	91	91	93	95	96
Dissolved Oxygen (mg/L)	4.61	3.26	2.26	2.45	2.55	2.64
Turbidity (NTU)	19	36	34	26	21	17
Eh (mv)	264	244	223	205	195	187

TOTAL QUANTITY OF WATER REMOVED (L): 11.6

SAMPLERS: JL, BH
SAMPLING TIME (START/END): 1315
SAMPLING DATE: 4/7/99
DECONTAMINATION FLUIDS USED: DI
SAMPLE TYPE: Grab
SAMPLE PRESERVATIVES: HCL
SAMPLE BOTTLE IDs: BN-14-EP-MW311
SAMPLE PARAMETERS: VOCs 8260

COMMENTS AND OBSERVATIONS:

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING (OVERFLOW PAGE)

Site Name: EASTERN Plume	Project No.: 2960047	Date: 4/7/99
Well ID: MW-311	Field Personnel: JG, BA	

Parameter	6	7	8	9	10	11
Time (min.)	1251	1256	1259	1302	1305	1308
Depth to Water (ft)	19.15	19.14	19.14	19.12	19.12	19.12
Purge Rate (L/min)	.2	.2	.2	.2	.2	.2
Volume Purged (L)	6.8	7.8	8.4	9.0	9.6	10.2
pH	7.87	7.85	7.85	7.85	7.85	7.86
Temperature (°C)	9.93	10.07	10.07	10.10	10.11	10.14
Conductivity (μmhos/cm)	98	98	96	97	97	97
Dissolved Oxygen (mg/L)	2.87	3.05	3.04	3.06	3.08	3.13
Turbidity (NTU)	12	10	10	10	9	8
Eh (mv)	184	183	180	180	182	182

Parameter	12	13	14	15	16	17
Time (min)	1311					
Depth to Water (ft)	19.12					
Purge Rate (L/min)	.2					
Volume Purged (L)	10.8					
pH	7.85					
Temperature (°C)	10.23					
Conductivity (μmhos/cm)	96					
Dissolved Oxygen (mg/L)	3.14					
Turbidity (NTU)	8					
Eh (mv)	183					

COMMENTS AND OBSERVATIONS _____

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: Eastern Plume
PROJECT NUMBER: 29600.47
WELL I.D.: MW-313
WELL LOCK STATUS: Good
WELL CONDITION: good
WEATHER: clear, 50°

GAUGE DATE: 4/6/99
GAUGE TIME: 1052
SOUNDING METHOD: slope indicator
MEASUREMENT REF: TOC
STICK UP/DOWN (ft): 3.35
WELL DIAMETER (in.): 2"

PURGE DATE: 4/6/99
PURGE TIME: 1054
PURGE METHOD: Low Flow
FIELD PERSONNEL: JG BA
AMBIENT AIR VOCs (ppm) Start: 0.0 End: 0.0
WELL MOUTH VOCs (ppm): Start: 0.0 End: 0.0

WELL VOLUME

A. WELL DEPTH (ft): 37.47
B. DEPTH TO WATER (ft): 8.51
C. LIQUID DEPTH (ft) (A-B): 28.96
D. WELL VOLUME/FT (L): 0.605
E. WELL VOLUME (L) (C*D): 17.4
F. THREE WELL VOLUMES (L) (E*3): 52.2

Parameter	Beginning	1	2	3	4	5
Time (min)	10:55	1120*	1125	1130	1135	1140
Depth to Water (ft)	8.51	9.32	9.32	9.32	9.32	9.38
Purge Rate (L/min)	.3	.3	.3	.3	.3	.3
Volume Purged (L)	.3	6.3	7.8	9.3	10.8	12.3
pH	6.37	8.03	8.02	8.01	7.98	7.94
Temperature (°C)	7.30	7.96	7.96	7.95	7.95	8.02
Conductivity (μmhos/cm)	316	232	231	231	231	228
Dissolved Oxygen (mg/L)	8.19	1.33	1.34	1.35	1.35	1.40
Turbidity (NTU)	153	127	127	63	55	47
Eh (mv)	243	189	187	185	182	178

TOTAL QUANTITY OF WATER REMOVED (L): 27.2

SAMPLERS: JG/BA
SAMPLING TIME (START/END): 1236
SAMPLING DATE: 4/6/99
DECONTAMINATION FLUIDS USED: DI
SAMPLE TYPE: GRAB
SAMPLE PRESERVATIVES: HCL
SAMPLE BOTTLE IDs: BN-14-EA-MW313
SAMPLE PARAMETERS: VOCs 8260

COMMENTS AND OBSERVATIONS: * minor problems with turbidity meter - re cal using 0.1 and 20 NTU standards.

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING (OVERFLOW PAGE)

Site Name: EASTEEN Plume	Project No.: 29600.47	Date: 4/6/99
Well ID: MW-313	Field Personnel: JG, BA	

Parameter	6	7	8	9	10	11
Time (min.)	1145	1150	1155	1200	1205	1210
Depth to Water (ft)	9.36	9.38	9.38	9.38	9.38	9.38
Purge Rate (L/min)	.3	.3	.3	.3	.3	.3
Volume Purged (L)	13.8	15.3	16.8	18.3	19.8	21.3
pH	7.91	7.91	7.87	7.84	7.82	7.79
Temperature (°C)	8.27	8.41	8.41	8.53	8.60	8.63
Conductivity (μmhos/cm)	218	212	211	208	203	201
Dissolved Oxygen (mg/L)	1.44	1.44	1.37	1.39	1.33	1.33
Turbidity (NTU)	42	36	33	28	23	23
Eh (mv)	176	171	169	169	168	168

Parameter	12	13	14	15	16	17
Time (min)	1215	1220	1225	1230		
Depth to Water (ft)	9.46	9.46	9.48	9.48		
Purge Rate (L/min)	.3	.3	.3	.3		
Volume Purged (L)	22.8	24.3	25.8	26.3		
pH	7.77	7.75	7.74	7.75		
Temperature (°C)	8.82	8.96	8.90	8.90		
Conductivity (μmhos/cm)	192	187	185	185		
Dissolved Oxygen (mg/L)	1.31	1.26	1.19	1.20		
Turbidity (NTU)	21	20	21	22		
Eh (mv)	168	168	168	168		

COMMENTS AND OBSERVATIONS

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: NAS Brunswick
PROJECT NUMBER: 29600.47.7504
WELL I.D.: MW-318
WELL LOCK STATUS: Locked
WELL CONDITION: Good
WEATHER: Sunny ~50

GAUGE DATE: 4/6/99
GAUGE TIME: 1314
SOUNDING METHOD: Slope Indicator
MEASUREMENT REF: TOC
STICK UP/DOWN (ft): 2.57
WELL DIAMETER (in.): 2"

PURGE DATE: 4/6/99
PURGE TIME: 1320 15 KS
PURGE METHOD: Low Flow
FIELD PERSONNEL: KS/RH
AMBIENT AIR VOCs (ppm) Start: 0.0 End: 0.0
WELL MOUTH VOCs (ppm): Start: 0.3 End: 0.1

WELL VOLUME

A. WELL DEPTH (ft): 25.14
B. DEPTH TO WATER (ft): 5.10
C. LIQUID DEPTH (ft) (A-B): 20.04
D. WELL VOLUME/FT (L): 0.605
E. WELL VOLUME (L) (C*D): 12.
F. THREE WELL VOLUMES (L) (E*3): 36

Parameter	Beginning	1	2	3	4	5
Time (min)	1320	1325	1330	1335	1340	1345
Depth to Water (ft)	5.10	5.30	5.30	5.50	5.50	5.47
Purge Rate (L/min)	.2	.2	.2	.2	.2	.2
Volume Purged (L)	1	2	3	4	5	6
pH	6.00	6.77	6.72	6.85	7.63	6.73
Temperature (°C)	8.87	9.56	11.49	11.60	11.81	11.95
Conductivity (μmhos/cm)	67	52	84	92	92	89
Dissolved Oxygen (mg/L)	0.80	1.04	5.12	5.33	6.58	6.88
Turbidity (NTU)	15	9	6	4	3	3
Eh (mv)	229	214	203	194	192	192

TOTAL QUANTITY OF WATER REMOVED (L): 10

SAMPLERS: KS/RH
SAMPLING TIME (START/END): 1404
SAMPLING DATE: 4/6/99
DECONTAMINATION FLUIDS USED: DI
SAMPLE TYPE: Grab
SAMPLE PRESERVATIVES: HCl
SAMPLE BOTTLE IDs: BN-14-EP-MW318
SAMPLE PARAMETERS: VOC
COMMENTS AND OBSERVATIONS:

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING (OVERFLOW PAGE)

Site Name: NAS Brunswick	Project No.: 29600.47	Date: 4/6/99
Well ID: MW-318	Field Personnel: KS/RH	

Parameter	6	7	8	9	10	11
Time (min.)	1350	1355	1400			
Depth to Water (ft)	5.47	5.47	5.50			
Purge Rate (L/min)	.2	.2	.2			
Volume Purged (L)	7	8	9			
pH	6.72	6.70	6.67			
Temperature (°C)	12.07	12.17	12.22			
Conductivity (μmhos/cm)	89	91	89			
Dissolved Oxygen (mg/L)	7.01	7.20	7.35			
Turbidity (NTU)	3	2	2			
Eh (mv)	191	191	192			

Parameter	12	13	14	15	16	17
Time (min)						
Depth to Water (ft)						
Purge Rate (L/min)						
Volume Purged (L)						
pH						
Temperature (°C)						
Conductivity (μmhos/cm)						
Dissolved Oxygen (mg/L)						
Turbidity (NTU)						
Eh (mv)						

COMMENTS AND OBSERVATIONS _____

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: EASTERN Plume
PROJECT NUMBER: 29600.47
WELL I.D.: MW-319
WELL LOCK STATUS: GOOD
WELL CONDITION: GOOD
WEATHER: overcast breezy.

GAUGE DATE: 4/7/99
GAUGE TIME: 1435
SOUNDING METHOD: slope indicator
MEASUREMENT REF: TOC
STICK UP/DOWN (ft): 2.30
WELL DIAMETER (in.): 2

PURGE DATE: 4/7/99
PURGE TIME: 1438
PURGE METHOD: Low flow
FIELD PERSONNEL: JG, BA
AMBIENT AIR VOCs (ppm) Start: 0.0 End: 0.0
WELL MOUTH VOCs (ppm): Start: 0.0 End: 0.0

WELL VOLUME

A. WELL DEPTH (ft): 72.60
B. DEPTH TO WATER (ft): 14.46
C. LIQUID DEPTH (ft) (A-B): 58.14
D. WELL VOLUME/FT (L): 0.605
E. WELL VOLUME (L) (C*D): 35.2
F. THREE WELL VOLUMES (L) (E*3): 105.6

Parameter	Beginning	1	2	3	4	5
Time (min)	1440	1445	1450	1455	1458	1501
Depth to Water (ft)	14.49	14.49	14.49	14.49	14.49	14.49
Purge Rate (L/min)	.2	.2	.2	.2	.2	.2
Volume Purged (L)	.4	1.4	2.4	3.4	4.0	4.6
pH	8.15	8.09	8.00	7.84	7.77	7.74
Temperature (°C)	9.83	9.87	9.40	9.49	9.34	9.30
Conductivity (μmhos/cm)	113	112	114	123	126	125
Dissolved Oxygen (mg/L)	9.46	9.13	8.68	6.09	5.93	5.90
Turbidity (NTU)	2	1	3	6	6	4
Eh (mv)	197	202	207	213	215	216

TOTAL QUANTITY OF WATER REMOVED (L): 5.4

SAMPLERS: JG BA
SAMPLING TIME (START/END): 1505
SAMPLING DATE: 4/7/99
DECONTAMINATION FLUIDS USED: DI
SAMPLE TYPE: GRAB
SAMPLE PRESERVATIVES: HCL
SAMPLE BOTTLE IDs: BN-14-EP-MW319
SAMPLE PARAMETERS: VOC 8260

COMMENTS AND OBSERVATIONS:

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: Eastern Plume
WELL I.D.: MW 330
WELL CONDITION:

PROJECT NUMBER: 29600.47.5704
WELL LOCK STATUS: GOOD
WEATHER: CLEAR 55°

GAUGE DATE: 4/9/99
SOUNDING METHOD: Skipe Indicator
STICK UP/DOWN (ft): 2.7

GAUGE TIME: 1129
MEASUREMENT REF: TOC
WELL DIAMETER (in.): 2

PURGE DATE: 4/9/99
PURGE METHOD: Low Flow
AMBIENT AIR VOCs (ppm) Start: 0.0 End: 0.0

PURGE TIME: 1131
FIELD PERSONNEL: BA/JG
WELL MOUTH VOCs (ppm): Start: 0.0 End: 0.0

WELL VOLUME

A. WELL DEPTH (ft): 36.36
B. DEPTH TO WATER (ft): 4.00
C. LIQUID DEPTH (ft) (A-B): 32.36
D. WELL VOLUME/FT (L): 0.605
E. WELL VOLUME (L) (C*D): 19.6
F. THREE WELL VOLUMES (L) (E*3): 58.8

Parameter	Beginning	1	2	3	4	5
Time (min)	1131	1136	1141	1146	1151	1156
Depth to Water (ft)	4.00	9.00	9.35	9.86	10.20	10.33
Purge Rate (L/min)	0.5	0.5	0.5	0.3	0.3	0.3
Volume Purged (L)	—	2.5	5	6.5	8.0	9.5
pH	7.81	7.89	7.92	7.96	7.94	7.96
Temperature (°C)	9.36	9.61	9.60	9.47	9.46	9.57
Conductivity (μmhos/cm)	75	76	76	75	75	76
Dissolved Oxygen (mg/L)	0.85	0.84	2.31	2.34	3.57	2.53
Turbidity (NTU)	427	234	214	214	412	217
Eh (mv)	268	235	189	144	108	67

TOTAL QUANTITY OF WATER REMOVED (L): 27.5

SAMPLERS: JG/BA
SAMPLING TIME (START/END): 1133

SAMPLING DATE: 4/9/99
DECONTAMINATION FLUIDS USED:

SAMPLE TYPE: GRAB
SAMPLE PRESERVATIVES: HCl

SAMPLE BOTTLE IDs: BN-EP-14

SAMPLE PARAMETERS: VOCs

COMMENTS AND OBSERVATIONS:

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING (OVERFLOW PAGE)

Site Name: Eastern Plume	Project No.: 96W47 5704	Date: 4/9/99
Well ID: MW 330	Field Personnel: JC/BA	

Parameter	6	7	8	9	10	11
Time (min.)	1201	1206	1211	1216	1221	1226
Depth to Water (ft)	10.36	10.42	10.51	10.54	10.59	10.42
Purge Rate (L/min)	0.3	0.3	0.3	0.3	0.3	0.3
Volume Purged (L)	11	12.5	14	15.5	17	18.5
pH	7.96	7.97	7.97	7.97	7.95	7.98
Temperature (°C)	9.55	9.35	9.45	9.58	9.63	9.14
Conductivity (μmhos/cm)	76	75	76	76	76	75
Dissolved Oxygen (mg/L)	2.48	2.97	2.62	2.97	2.72	1.56
Turbidity (NTU)	219	217	216	215	216	215
Eh (mv)	41	24	16	8	4	-6.

Parameter	12	13	14	15	16	17
Time (min)	1231	1236	1241	1246	1251	1256
Depth to Water (ft)	13.01	14.12	14.20	15.07	15.41	15.31
Purge Rate (L/min)	0.3	0.3	0.3	0.3	0.3	0.3
Volume Purged (L)	20	21.5	23	24.5	26	27.5
pH	7.98	7.98	7.90	7.91	7.92	7.92
Temperature (°C)	9.01	8.97	9.27	9.14	9.22	9.32
Conductivity (μmhos/cm)	74	74	72	75	74	75
Dissolved Oxygen (mg/L)	1.03	0.98	3.15	0.54	0.47	0.44
Turbidity (NTU)	214	408	152	120	123	129
Eh (mv)	-15	-21	-4	-17	-23	-20

COMMENTS AND OBSERVATIONS Flushed out flow cell at 1237

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: NAS Brunswick
PROJECT NUMBER: 29600.47.7504
WELL I.D.: MW 331
WELL LOCK STATUS: Locked
WELL CONDITION: Good
WEATHER: Cloudy/cool ± 40

GAUGE DATE: 4/8/99
GAUGE TIME: 1203
SOUNDING METHOD: Slope Indicator
MEASUREMENT REF: TOC
STICK UP/DOWN (ft):
WELL DIAMETER (in.): 2"

PURGE DATE: 4/8/99
PURGE TIME: 1205
PURGE METHOD: Low Flow
FIELD PERSONNEL: KS/RH
AMBIENT AIR VOCs (ppm) Start: 0.0 End: 0.0
WELL MOUTH VOCs (ppm): Start: 0.06 End: 0.0

WELL VOLUME

A. WELL DEPTH (ft): 56.23
B. DEPTH TO WATER (ft): 2.15
C. LIQUID DEPTH (ft) (A-B): 54.08
D. WELL VOLUME/FT (L): 0.605
E. WELL VOLUME (L) (C*D): 32.7
F. THREE WELL VOLUMES (L) (E*3): 98.1

Parameter	Beginning	1	2	3	4	5
Time (min)	1210	1215	1220	1225	1230	
Depth to Water (ft)	2.15	2.17	2.17	2.17	2.17	
Purge Rate (L/min)	1	1	1	1	1	
Volume Purged (L)	5	10	15	20	25 KS	
pH	4.45	5.30	5.75	5.80	~~8.90~~ 5.81	
Temperature (°C)	7.62	8.51	8.80	8.87	8.90	
Conductivity (μmhos/cm)	971	1098	1104	1107	1112	
Dissolved Oxygen (mg/L)	2.35	1.41	1.44	1.40	1.40	
Turbidity (NTU)	388	37	9	7	6	
Eh (mv)	280	276	269	267	263	

TOTAL QUANTITY OF WATER REMOVED (L): 25

SAMPLERS: KS/RH
SAMPLING TIME (START/END): 1233-1237
SAMPLING DATE: 4/8/99
DECONTAMINATION FLUIDS USED: DI
SAMPLE TYPE: Grab
SAMPLE PRESERVATIVES: HCl
SAMPLE BOTTLE IDs: BN-14-EP-MW331
SAMPLE PARAMETERS: VOC

COMMENTS AND OBSERVATIONS:

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: Eastern Plume
PROJECT NUMBER: 29600.47
WELL I.D.: MW-332
WELL LOCK STATUS: Good
WELL CONDITION: Good
WEATHER: overcast, cool.

GAUGE DATE: 4/7/99
GAUGE TIME: 1023
SOUNDING METHOD: slope indicator
MEASUREMENT REF: TOC
STICK UP/DOWN (ft):
WELL DIAMETER (in.): 2"

PURGE DATE: 4/7/99
PURGE TIME: ~~1025~~* 1128
PURGE METHOD: Low flow
FIELD PERSONNEL: JG, BA
AMBIENT AIR VOCs (ppm) Start: 0.0 End: 0.0
WELL MOUTH VOCs (ppm): Start: 0.0 End: 0.0

WELL VOLUME

A. WELL DEPTH (ft): 21.03
B. DEPTH TO WATER (ft): 9.20
C. LIQUID DEPTH (ft) (A-B): 11.83
D. WELL VOLUME/FT (L): 0.605
E. WELL VOLUME (L) (C*D): 7.2
F. THREE WELL VOLUMES (L) (E*3): 21.6

Parameter	Beginning	1	2	3	4	5
Time (min)	1130 ~~1028~~*	1135	1140	1145	1148	1151
Depth to Water (ft)	9.70	9.43	9.41	9.40	9.38	9.38
Purge Rate (L/min)	0.2	.2	.2	.2	.2	.2
Volume Purged (L)	.4	1.4	2.4	3.4	4.4	5.0
pH	6.93	7.20	7.88	7.57	8.18	8.20
Temperature (°C)	6.33	5.24	5.51	6.74	7.15	7.28
Conductivity (μmhos/cm)	32	25	27	30	32	32
Dissolved Oxygen (mg/L)	9.66	9.05	8.67	8.59	8.64	8.73
Turbidity (NTU)	26	10	7	3	1	1
Eh (mv)	75	124	114	134	129	130

TOTAL QUANTITY OF WATER REMOVED (L): 7.0

SAMPLERS: JG BA
SAMPLING TIME (START/END): 1203
SAMPLING DATE: 4/7/99
DECONTAMINATION FLUIDS USED: DI
SAMPLE TYPE: Grab
SAMPLE PRESERVATIVES: HCL
SAMPLE BOTTLE IDs: BN-14-EP-MW332
SAMPLE PARAMETERS: VOC 8260

COMMENTS AND OBSERVATIONS: * switch to another YSI (6100)m

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING (OVERFLOW PAGE)

Site Name: Eastern Plume	Project No.: 2960047	Date: 6/7/99
Well ID: MW 332	Field Personnel: JG BA	

Parameter	6	7	8	9	10	11
Time (min.)	1154	1157				
Depth to Water (ft)	9.38	9.37				
Purge Rate (L/min)	.2	.2				
Volume Purged (L)	5.6	6.2				
pH	8.23	8.23				
Temperature (°C)	7.34	7.34				
Conductivity (μmhos/cm)	32	31				
Dissolved Oxygen (mg/L)	8.70	8.78				
Turbidity (NTU)	1	0				
Eh (mv)	131	133				

Parameter	12	13	14	15	16	17
Time (min)						
Depth to Water (ft)						
Purge Rate (L/min)						
Volume Purged (L)						
pH						
Temperature (°C)						
Conductivity (μmhos/cm)						
Dissolved Oxygen (mg/L)						
Turbidity (NTU)						
Eh (mv)						

COMMENTS AND OBSERVATIONS _____

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: Eastern Plume
WELL I.D.: MW-333
WELL CONDITION: Good

PROJECT NUMBER: 29600.47
WELL LOCK STATUS: Good
WEATHER: clear, sun

GAUGE DATE: 4/6/99
SOUNDING METHOD: slope indicator
STICK UP/DOWN (ft):

GAUGE TIME: 1330
MEASUREMENT REF: TOC
WELL DIAMETER (in.): 2"

PURGE DATE: 4/6/99
PURGE METHOD: Low Flow
AMBIENT AIR VOCs (ppm) Start: 0.0 End: 0.0

PURGE TIME: 1335
FIELD PERSONNEL: JG, BA
WELL MOUTH VOCs (ppm): Start: 0.0 End: 0.0

WELL VOLUME

A. WELL DEPTH (ft): 42.85
B. DEPTH TO WATER (ft): 11.05
C. LIQUID DEPTH (ft) (A-B): 31.8

D. WELL VOLUME/FT (L): 0.605
E. WELL VOLUME (L) (C*D): 19.2
F. THREE WELL VOLUMES (L) (E*3): 57.6

Parameter	Beginning	1	2	3	4	5
Time (min)	1340	1345	1350	1355	1400	1405
Depth to Water (ft)	11.89	11.90	11.92	11.98	12.14	12.00
Purge Rate (L/min)	.15	.15	.15	.15	.15	.15
Volume Purged (L)	.8	1.6	2.4	3.2	4.0	4.8
pH	6.28	6.29	6.32	7.03	7.31	7.44
Temperature (°C)	7.06	7.04	7.23	7.58	7.76	7.91
Conductivity (μmhos/cm)	157	165	162	164	157	157
Dissolved Oxygen (mg/L)	3.82	1.68	1.34	1.32	1.11	1.05
Turbidity (NTU)	30	50	35	17	13	8
Eh (mv)	465	426	405	384	370	361

TOTAL QUANTITY OF WATER REMOVED (L): 6.0

SAMPLERS: JG/BA
SAMPLING TIME (START/END): 1420
SAMPLING DATE: 4/6/99
DECONTAMINATION FLUIDS USED: DI
SAMPLE TYPE: GRAB
SAMPLE PRESERVATIVES: HCL
SAMPLE BOTTLE IDs: BN-14-EP-MW333
SAMPLE PARAMETERS: VOC 8260
COMMENTS AND OBSERVATIONS: Sulfur odor

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING (OVERFLOW PAGE)

Site Name: EASTERN Plume	Project No.: 2960047	Date: 4/6/94
Well ID: MW 333	Field Personnel: JG BA	

Parameter	6	7	8	9	10	11
Time (min.)	1408	1411				
Depth to Water (ft)	12.12	11.98				
Purge Rate (L/min)	.15	.15				
Volume Purged (L)	5.3	5.8				
pH	7.50	7.54				
Temperature (°C)	7.98	8.05				
Conductivity (μmhos/cm)	158	155				
Dissolved Oxygen (mg/L)	0.98	0.92				
Turbidity (NTU)	8	7				
Eh (mv)	356	350				

Parameter	12	13	14	15	16	17
Time (min)						
Depth to Water (ft)						
Purge Rate (L/min)						
Volume Purged (L)						
pH						
Temperature (°C)						
Conductivity (μmhos/cm)						
Dissolved Oxygen (mg/L)						
Turbidity (NTU)						
Eh (mv)						

COMMENTS AND OBSERVATIONS _____

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: Eastern Plume
WELL I.D.: ~~BN 14 EP~~ MW 334
WELL CONDITION: 2 Good

PROJECT NUMBER: 29600.47.5704
WELL LOCK STATUS: GOOD
WEATHER: CLOUDY, 43°F

GAUGE DATE: 4/8/99
SOUNDING METHOD: Slope Indicator
STICK UP/DOWN (ft): 2.85

GAUGE TIME: 0840
MEASUREMENT REF: TOC
WELL DIAMETER (in.): 2

PURGE DATE: 4/8/99
PURGE METHOD: Low Flow
AMBIENT AIR VOCs (ppm) Start: 0.0 End: 0.0

PURGE TIME: 0848 → 0853, 0938 → 1015 ~~0953~~
FIELD PERSONNEL: BA/JG
WELL MOUTH VOCs (ppm): Start: 0.0 End: 0.0

WELL VOLUME

A. WELL DEPTH (ft): 47.80
B. DEPTH TO WATER (ft): 11.66
C. LIQUID DEPTH (ft) (A-B): 36.14
D. WELL VOLUME/FT (L): 0.605
E. WELL VOLUME (L) (C*D): 21.9
F. THREE WELL VOLUMES (L) (E*3): 65.7

Parameter	Beginning	1	2	3	4	5
Time (min)	0848	~~0853~~	0938	0943	0948	0953
Depth to Water (ft)	11.66		13.66	14.16	~~14~~ 13.58	12.92
Purge Rate (L/min)	0.5		0.5	0.5	0.5	0.5
Volume Purged (L)	—		2.5	5	7.5	10
pH	8.44		8.16	7.98	7.84	7.79
Temperature (°C)	8.36		7.94	8.27	8.44	8.49
Conductivity (μmhos/cm)	134		148	125	123	123
Dissolved Oxygen (mg/L)	-0.09		2.20	2.32	1.07	1.05
Turbidity (NTU)	43		131	60	42	38
Eh (mv)	161		177	175	176	177

Air bubble in DO measurement. Back of plant. Recirculate

TOTAL QUANTITY OF WATER REMOVED (L): 15.9

SAMPLERS: JG/BA
SAMPLING TIME (START/END): ~~0848~~ ~~09~~ 1017
SAMPLING DATE: 4/8/99
DECONTAMINATION FLUIDS USED: DI
SAMPLE TYPE: GRAB
SAMPLE PRESERVATIVES: HCl
SAMPLE BOTTLE IDs: BN 14 EP MW 334
SAMPLE PARAMETERS: VOCs
COMMENTS AND OBSERVATIONS:

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING (OVERFLOW PAGE)

Site Name: Eastern Plume	Project No.: 29600767.04	Date: 4/8/99
Well ID: MW 334	Field Personnel: BA/JG	

Parameter	6	7	8	9	10	11
Time (min.)	0958	1003	1006	1009	1012	1015
Depth to Water (ft)	12.72	12.68	12.68	12.64	12.62	12.61
Purge Rate (L/min)	0.5	0.2	0.2	0.2	0.2	0.2
Volume Purged (L)	12.5	13.5	14.1	14.7	15.3	15.9
pH	7.64	7.78	7.86	7.93	7.93	7.92
Temperature (°C)	8.43	8.42	8.41	8.38	8.38	8.39
Conductivity (μmhos/cm)	124	124	124	125	125	126
Dissolved Oxygen (mg/L)	1.56	1.30	0.86	0.77	0.74	0.77
Turbidity (NTU)	38	32	32	39	40	40
Eh (mv)	179	179	180	181	181	181

Parameter	12	13	14	15	16	17
Time (min)						
Depth to Water (ft)						
Purge Rate (L/min)						
Volume Purged (L)						
pH						
Temperature (°C)						
Conductivity (μmhos/cm)						
Dissolved Oxygen (mg/L)						
Turbidity (NTU)						
Eh (mv)						

COMMENTS AND OBSERVATIONS _____

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: NAS Brunswick
PROJECT NUMBER: 29600.47.7504
WELL I.D.: MW-1104
WELL LOCK STATUS: Locked
WELL CONDITION: Good
WEATHER: Sunny ± 45

GAUGE DATE: 4/9/99
GAUGE TIME: 0819
SOUNDING METHOD: Slope Indicator
MEASUREMENT REF: TOC
STICK UP/DOWN (ft): 2.25
WELL DIAMETER (in.): 2"

PURGE DATE: 4/9/99
PURGE TIME: 0820
PURGE METHOD: Low Flow
FIELD PERSONNEL: KS/RH
AMBIENT AIR VOCs (ppm) Start: 0.0 End: 0.0
WELL MOUTH VOCs (ppm): Start: 0.0 End: 0.0

WELL VOLUME

A. WELL DEPTH (ft): 27.55
B. DEPTH TO WATER (ft): 11.45
C. LIQUID DEPTH (ft) (A-B): 16.1
D. WELL VOLUME/FT (L): 0.605
E. WELL VOLUME (L) (C*D): 9.7
F. THREE WELL VOLUMES (L) (E*3): 29.1

Parameter	Beginning	1	2	3	4	5 *
Time (min)	0825	0830	0835	0840	0845	0850
Depth to Water (ft)	11.45	11.45	11.24	11.24	11.41	11.41
Purge Rate (L/min)	.2	.2	.2	.2	.2	.2
Volume Purged (L)	1	2	3	4	5	6
pH	2.50	4.41	5.18	5.52	5.71	5.68
Temperature (°C)	7.27	8.56	10.94	11.90	12.83	13.41
Conductivity (μmhos/cm)	160	175	179	174	172	169
Dissolved Oxygen (mg/L)	3.97	3.97	3.35	2.97	2.35	3.04
Turbidity (NTU)	161	160	177	193	215	Ø
Eh (mv)	374	268	219	201	195	208

TOTAL QUANTITY OF WATER REMOVED (L): 8.2

SAMPLERS: KS/RH
SAMPLING TIME (START/END): 0905-0909
SAMPLING DATE: 4/9/99
DECONTAMINATION FLUIDS USED: DI
SAMPLE TYPE: Grab
SAMPLE PRESERVATIVES: HCl
SAMPLE BOTTLE IDs: BN-14-EP-MW1104
SAMPLE PARAMETERS: VOC
COMMENTS AND OBSERVATIONS: * Empty Flow Cell

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING (OVERFLOW PAGE)

Site Name: NAS Brunswick	Project No.: 29600.47.3504 Date: 4/9/99
Well ID: MW-1104	Field Personnel: KS/RH

Parameter	6	7	8	9	10	11
Time (min.)	0855	0858	0901			
Depth to Water (ft)	11.41	11.41	11.41			
Purge Rate (L/min)	.2	.2	.2			
Volume Purged (L)	7	7.6	8.2			
pH	5.65	5.60	5.64			
Temperature (°C)	13.05	13.08	13.27			
Conductivity (μmhos/cm)	175	173	178			
Dissolved Oxygen (mg/L)	1.98	1.98	1.94			
Turbidity (NTU)	0	0	0			
Eh (mv)	201	197	194			

Parameter	12	13	14	15	16	17
Time (min)						
Depth to Water (ft)						
Purge Rate (L/min)						
Volume Purged (L)						
pH						
Temperature (°C)						
Conductivity (μmhos/cm)						
Dissolved Oxygen (mg/L)						
Turbidity (NTU)						
Eh (mv)						

COMMENTS AND OBSERVATIONS _____

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: NASB Brunswick
PROJECT NUMBER: 29600.47.7504
WELL I.D.: MW-NASB-212
WELL LOCK STATUS: Locked
WELL CONDITION: Good
WEATHER: Sunny Windy ±40

GAUGE DATE: 4/7/99
GAUGE TIME: 1531
SOUNDING METHOD: Slope Indicator
MEASUREMENT REF: TOC
STICK UP/DOWN (ft): 2.96
WELL DIAMETER (in.): 2"

PURGE DATE: 4/7/99
PURGE TIME: 1535
PURGE METHOD: Low Flow
FIELD PERSONNEL: KS/RH
AMBIENT AIR VOCs (ppm) Start: 0.0 End: 0.0
WELL MOUTH VOCs (ppm): Start: 0.0 End: 0.0

WELL VOLUME

A. WELL DEPTH (ft): 64.29
B. DEPTH TO WATER (ft): 9.00
C. LIQUID DEPTH (ft) (A-B): 55.29
D. WELL VOLUME/FT (L): 0.605
E. WELL VOLUME (L) (C*D): 33.5
F. THREE WELL VOLUMES (L) (E*3): 100.5

Parameter	Beginning	1	2	3	4	5
Time (min)	1540	1545	1550	1555	1600	1605
Depth to Water (ft)	9.00	9.00	9.00	9.00	9.00	9.00
Purge Rate (L/min)	.2	.2	.2	.2	.2	.2
Volume Purged (L)	1	2	3	4	5	6
pH	3.00	5.56	6.04	6.31	6.42	6.48
Temperature (°C)	9.29	8.58	8.67	9.00	9.45	9.65
Conductivity (μmhos/cm)	135	135	135	140	140	140
Dissolved Oxygen (mg/L)	8.39	1.61	1.20	.77	.63	.60
Turbidity (NTU)	0	24	15	7	6	5
Eh (mv)	275	192	142	112	99	92

TOTAL QUANTITY OF WATER REMOVED (L): 6.6

SAMPLERS: KS/RH
SAMPLING TIME (START/END): 1611 – 1615
SAMPLING DATE: 4/7/99
DECONTAMINATION FLUIDS USED: DI
SAMPLE TYPE: Grab
SAMPLE PRESERVATIVES: HCl
SAMPLE BOTTLE IDs: BN-14-EP-MW-NASB-212
SAMPLE PARAMETERS: VOC

COMMENTS AND OBSERVATIONS:

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING (OVERFLOW PAGE)

Site Name: NAS Brunswick	Project No.: 29600.47	Date: 4/7/99
Well ID: MW-NASB-212	Field Personnel: KB/RH	

Parameter	6	7	8	9	10	11
Time (min.)	1608					
Depth to Water (ft)	9.00					
Purge Rate (L/min)	.2					
Volume Purged (L)	6.6					
pH	6.50					
Temperature (°C)	9.72					
Conductivity (μmhos/cm)	141					
Dissolved Oxygen (mg/L)	.59					
Turbidity (NTU)	4					
Eh (mv)	91					

Parameter	12	13	14	15	16	17
Time (min)						
Depth to Water (ft)						
Purge Rate (L/min)						
Volume Purged (L)						
pH						
Temperature (°C)						
Conductivity (μmhos/cm)						
Dissolved Oxygen (mg/L)						
Turbidity (NTU)						
Eh (mv)						

COMMENTS AND OBSERVATIONS _____

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: Eastern Plume
PROJECT NUMBER: 29600.47.5704
WELL I.D.: MW P-106
WELL LOCK STATUS: Good
WELL CONDITION: Good
WEATHER: Cloudy 45°F, Breezy

GAUGE DATE: 4/8/99
GAUGE TIME: 1134
SOUNDING METHOD: Slope Indicator
MEASUREMENT REF: TOC
STICK UP/DOWN (ft): 2.53
WELL DIAMETER (in.): 1

PURGE DATE: 4/8/99
PURGE TIME: 1145
PURGE METHOD: Low flow
FIELD PERSONNEL: JG/BA
AMBIENT AIR VOCs (ppm) Start: 0.0 End: 0.0
WELL MOUTH VOCs (ppm): Start: 0.0 End: 0.0

WELL VOLUME

A. WELL DEPTH (ft): 72.4
B. DEPTH TO WATER (ft): 9.60
C. LIQUID DEPTH (ft) (A-B): 62.8
D. WELL VOLUME/FT (L): 0.085
E. WELL VOLUME (L) (C*D): 5.3
F. THREE WELL VOLUMES (L) (E*3): 15.9

Parameter	Beginning	1	2	3	4	5
Time (min)	1145	1150	1155	1200	1205	1210
Depth to Water (ft)	9.60	—	—	—	—	—
Purge Rate (L/min)	0.2	0.2	0.2	0.2	0.2	0.2
Volume Purged (L)	—	1	2	3	4	5
pH	7.26	7.27	7.26	7.21	7.24	7.25
Temperature (°C)	8.00	8.54	8.60	8.10	8.22	8.28
Conductivity (μmhos/cm)	81	83	85	85	88	92
Dissolved Oxygen (mg/L)	3.86	4.24	4.44	4.20	3.21	3.44
Turbidity (NTU)	5	17	76	96	94	45
Eh (mv)	248	240	239	241	243	244

TOTAL QUANTITY OF WATER REMOVED (L): 10.6

SAMPLERS: JG/BA
SAMPLING TIME (START/END): 1238
SAMPLING DATE: 4/8/99
DECONTAMINATION FLUIDS USED: DI
SAMPLE TYPE: GRAB
SAMPLE PRESERVATIVES: HCl
SAMPLE BOTTLE IDs: BN-14 EP - P106
SAMPLE PARAMETERS: VOCs
COMMENTS AND OBSERVATIONS:

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING (OVERFLOW PAGE)

Site Name: Eastern Plume	Project No.: 29647.5704	Date: 4/8/99
Well ID: P-06	Field Personnel: JG/BA	

Parameter	6	7	8	9	10	11
Time (min.)	1215	1220	1225	1228	1231	1234
Depth to Water (ft)	—	—	—	—	—	~~9.71~~
Purge Rate (L/min)	0.2	0.2	0.2	0.2	0.2	0.2
Volume Purged (L)	6	7	8	8.6	9.2	9.8
pH	7.20	7.21	7.20	7.17	7.14	7.19
Temperature (°C)	8.28	8.37	8.47	8.50	8.56	8.68
Conductivity (μmhos/cm)	92	93	93	93	93	94
Dissolved Oxygen (mg/L)	2.82	3.02	3.33	2.86	2.85	2.93
Turbidity (NTU)	28	17	9	9	7	6
Eh (mv)	246	246	245	246	249	246

Parameter	12	13	14	15	16	17
Time (min)						
Depth to Water (ft)						
Purge Rate (L/min)						
Volume Purged (L)						
pH						
Temperature (°C)						
Conductivity (μmhos/cm)						
Dissolved Oxygen (mg/L)						
Turbidity (NTU)						
Eh (mv)						

COMMENTS AND OBSERVATIONS _____

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: Eastern Plume
WELL I.D.: P-111
WELL CONDITION: GOOD

PROJECT NUMBER: 29600.47.7504
WELL LOCK STATUS: GOOD
WEATHER: CLEAR, BREEZY, 50°F

GAUGE DATE: 4/8/99
SOUNDING METHOD: Slope Indicator
STICK UP/DOWN (ft):

GAUGE TIME: 1420 → 1532
MEASUREMENT REF: TOC
WELL DIAMETER (in.): 1

PURGE DATE: 4/8/99
PURGE METHOD: Low Flow
AMBIENT AIR VOCs (ppm) Start: 0.0 End: 0.0

PURGE TIME: 1426
FIELD PERSONNEL: JG/BA
WELL MOUTH VOCs (ppm): Start: 0.0 End: 0.0

WELL VOLUME

A. WELL DEPTH (ft): 9.98
B. DEPTH TO WATER (ft): 4.14
C. LIQUID DEPTH (ft) (A-B): 5.84
D. WELL VOLUME/FT (L): 0.085
E. WELL VOLUME (L) (C*D): 0.5
F. THREE WELL VOLUMES (L) (E*3): 1.5

Parameter	Beginning	1	2	3	4	5
Time (min)	1426	1431	1436	1441	1446	1451
Depth to Water (ft)	4.14	—	—	—	—	—
Purge Rate (L/min)	0.5	0.5	0.5	0.5	0.5	0.5
Volume Purged (L)	—	2.5	5	7.5	10	12.5
pH	7.29	6.86	6.14	6.11	6.49	6.37
Temperature (°C)	6.80	5.10	4.88	4.84	4.87	4.85
Conductivity (μmhos/cm)	87	76	76	74	76	77
Dissolved Oxygen (mg/L)	8.29	10.56	10.85	10.84	11.25	11.41
Turbidity (NTU)	383	397	138	45	26	33
Eh (mv)	204	224	236	242	247	252

TOTAL QUANTITY OF WATER REMOVED (L): 35.5

SAMPLERS: JG/BA
SAMPLING TIME (START/END): 1534
SAMPLING DATE: 4/8/99
DECONTAMINATION FLUIDS USED: DI
SAMPLE TYPE: GRAB
SAMPLE PRESERVATIVES: HCl
SAMPLE BOTTLE IDs: BN-14-EP-P-111
SAMPLE PARAMETERS: VOCs

COMMENTS AND OBSERVATIONS:

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING (OVERFLOW PAGE)

Site Name: Eastern Plume	Project No.: 29600475104	Date: 4/8/97	
Well ID: P-111	Field Personnel: BA/JG		

Parameter	6	7	8	9	10	11
Time (min.)	1454	1457	1500	1505	1508	1511
Depth to Water (ft)	—	—	—	—	—	—
Purge Rate (L/min)	0.5	0.5	0.5	0.5	0.5	0.5
Volume Purged (L)	14	15.5	17	22	23.5	25
pH	6.92	6.90	6.57	6.65	6.67	6.57
Temperature (°C)	4.90	4.99	5.04	5.08	5.16	5.20
Conductivity (μmhos/cm)	77	77	77	77	77	77
Dissolved Oxygen (mg/L)	10.40	11.43	10.46	10.69	10.55	10.67
Turbidity (NTU)	26	20	16	12	51	50
Eh (mv)	257	254	262	262	269	271

Parameter	12	13	14	15	16	17
Time (min)	1514	1517	1520	1523	1526	1529
Depth to Water (ft)	—	—	—	—	—	—
Purge Rate (L/min)	0.5	0.5	0.5	0.5	0.5	0.5
Volume Purged (L)	26.5	28	29.5	31	32.5	34
pH	6.57	6.53	6.42	6.48	6.39	6.36
Temperature (°C)	5.24	5.25	5.32	5.32	5.30	5.39
Conductivity (μmhos/cm)	77	77	78	78	77	77
Dissolved Oxygen (mg/L)	10.80	10.78	10.73	10.80	10.77	10.74
Turbidity (NTU)	36	25	19	14	129	8
Eh (mv)	270	275	277	277	280	281

COMMENTS AND OBSERVATIONS _____

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING (OVERFLOW PAGE)

Site Name: Eastern Plume		Project No.: 29600475704	Date: 4-8-99
Well ID: P-111		Field Personnel: JG / BA	

Parameter	6	7	8	9	10	11
Time (min.)	1532					
Depth to Water (ft)	—					
Purge Rate (L/min)	0.5					
Volume Purged (L)	35.5					
pH	6.32					
Temperature (°C)	5.43					
Conductivity (μmhos/cm)	77					
Dissolved Oxygen (mg/L)	10.74					
Turbidity (NTU)	9					
Eh (mv)	282					

Parameter	12	13	14	15	16	17
Time (min)						
Depth to Water (ft)						
Purge Rate (L/min)						
Volume Purged (L)						
pH						
Temperature (°C)						
Conductivity (μmhos/cm)						
Dissolved Oxygen (mg/L)						
Turbidity (NTU)						
Eh (mv)						

COMMENTS AND OBSERVATIONS _____

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: NAS Brunswick
PROJECT NUMBER: 29600.47.7504
WELL I.D.: P-132
WELL LOCK STATUS: Locked
WELL CONDITION: Good
WEATHER: Sunny ≈50

GAUGE DATE: 4/6/99
GAUGE TIME: 1508
SOUNDING METHOD: Slope Indicator
MEASUREMENT REF: TOC
STICK UP/DOWN (ft):
WELL DIAMETER (in.): 2"

PURGE DATE: 4/6/99
PURGE TIME: 1510
PURGE METHOD: Low Flow
FIELD PERSONNEL: KS/RH
AMBIENT AIR VOCs (ppm) Start: 0.0 End: 0.0
WELL MOUTH VOCs (ppm): Start: 0.0 End: 0.0

WELL VOLUME

A. WELL DEPTH (ft): 32.46
B. DEPTH TO WATER (ft): 17.65
C. LIQUID DEPTH (ft) (A-B): 14.81
D. WELL VOLUME/FT (L): 0.605
E. WELL VOLUME (L) (C*D): 8.96
F. THREE WELL VOLUMES (L) (E*3): 26.9

Parameter	Beginning	1	2	3	4	5
Time (min)	1515	1520	1525	1530	1535	1540
Depth to Water (ft)	17.66	17.63	17.63	17.64	17.59	17.60
Purge Rate (L/min)	.2	.2	.2	.2	.2	.2
Volume Purged (L)	1	2	3	4	5	6
pH	4.43	5.16	5.57	5.71	5.52	5.64
Temperature (°C)	8.02	9.38	11.86	12.48	12.81	13.24
Conductivity (μmhos/cm)	27	25	22	22	22	24
Dissolved Oxygen (mg/L)	13.77	13.50	13.58	13.65	13.75	13.27
Turbidity (NTU)	222	108	41	34	37	27
Eh (mv)	220	222	235	240	269	261

TOTAL QUANTITY OF WATER REMOVED (L): 12

SAMPLERS: KS/RH
SAMPLING TIME (START/END): 1604-1610
SAMPLING DATE: 4/6/99
DECONTAMINATION FLUIDS USED: DI
SAMPLE TYPE: Grab
SAMPLE PRESERVATIVES: HCl
SAMPLE BOTTLE IDs: BN-14-EP-P132
SAMPLE PARAMETERS: VOC

COMMENTS AND OBSERVATIONS:

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING (OVERFLOW PAGE)

Site Name: NAS Brunswick	Project No.: 29600.47	Date: 4/6/99
Well ID: P-132	Field Personnel: KS/RH	

readings switched KS

Parameter	6	7	8	9	10	11
Time (min.)	1545	1550	1555	1600		
Depth to Water (ft)	17.68	17.68 KS	17.68	17.68		
Purge Rate (L/min)	.2	.2	.2	.2		
Volume Purged (L)	7	8	~~10~~ 9	10		
pH	5.71	5.91	5.88	5.95		
Temperature (°C)	13.51	13.69	13.69	13.78		
Conductivity (μmhos/cm)	21	21	22	22		
Dissolved Oxygen (mg/L)	13.17	13.07	13.33	13.06		
Turbidity (NTU)	20	17	17	17		
Eh (mv)	263	265	264	265		

Parameter	12	13	14	15	16	17
Time (min)						
Depth to Water (ft)						
Purge Rate (L/min)						
Volume Purged (L)						
pH						
Temperature (°C)						
Conductivity (μmhos/cm)						
Dissolved Oxygen (mg/L)						
Turbidity (NTU)						
Eh (mv)						

COMMENTS AND OBSERVATIONS _____

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: Eastern Plume
WELL I.D.: EW01
WELL CONDITION: GOOD

PROJECT NUMBER: 29600.47.5704
WELL LOCK STATUS: GOOD
WEATHER: CLEAR, 45°F

GAUGE DATE: ~~NA~~ 4/9/99
SOUNDING METHOD: ~~NA~~ Slope indicator
STICK UP/DOWN (ft):

GAUGE TIME: ~~NA~~ 0858
MEASUREMENT REF: ~~NA~~ TOC
WELL DIAMETER (in.): 6

PURGE DATE: 4/ NA
PURGE METHOD: NA
AMBIENT AIR VOCs (ppm) Start: 0.0 End: 0.0

PURGE TIME: NA
FIELD PERSONNEL: JG DK
WELL MOUTH VOCs (ppm): Start: 0.0 End: 0.0

WELL VOLUME

A. WELL DEPTH (ft): NA
B. DEPTH TO WATER (ft): 11.76
C. LIQUID DEPTH (ft) (A-B): NA
D. WELL VOLUME/FT (L): NA
E. WELL VOLUME (L) (C*D): NA
F. THREE WELL VOLUMES (L) (E*3): NA

Parameter	Beginning	1	2	3	4	5
Time (min)	0900					
Depth to Water (ft)	—					
Purge Rate (L/min)	NA					
Volume Purged (L)	NA					
pH	8.15					
Temperature (°C)	9.33					
Conductivity (μmhos/cm)	130					
Dissolved Oxygen (mg/L)	5.38					
Turbidity (NTU)	4					
Eh (mv)	257					

TOTAL QUANTITY OF WATER REMOVED (L): NA

SAMPLERS: JG/BA
SAMPLING TIME (START/END): 0903
SAMPLING DATE: 4/9/99
DECONTAMINATION FLUIDS USED: DI
SAMPLE TYPE: GRAB
SAMPLE PRESERVATIVES: HCl
SAMPLE BOTTLE IDs: BN-14-EP-EW 01
SAMPLE PARAMETERS: ~~HE~~ VOC
COMMENTS AND OBSERVATIONS: Flow @ 1 gpm

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: Eastern Plume
PROJECT NUMBER: 29600.47-5704
WELL I.D.: EW 02
WELL LOCK STATUS: GOOD
WELL CONDITION: GOOD
WEATHER: CLEAR 45°F

GAUGE DATE: ~~NA~~ 4/9/99
GAUGE TIME: ~~NA~~ 0930
SOUNDING METHOD: ~~NA~~ Slope indicator
MEASUREMENT REF: TOC
STICK UP/DOWN (ft):
WELL DIAMETER (in.): 6

PURGE DATE: NA
PURGE TIME: NA
PURGE METHOD: NA
FIELD PERSONNEL: JG BA
AMBIENT AIR VOCs (ppm) Start: 0.0 End: 0.0
WELL MOUTH VOCs (ppm): Start: 0.0 End: 0.0

WELL VOLUME

A. WELL DEPTH (ft): NA
B. DEPTH TO WATER (ft): 13.12
C. LIQUID DEPTH (ft) (A-B): NA
D. WELL VOLUME/FT (L): NA
E. WELL VOLUME (L) (C*D): NA
F. THREE WELL VOLUMES (L) (E*3): NA

Parameter	Beginning	1	2	3	4	5
Time (min)	0932					
Depth to Water (ft)	—					
Purge Rate (L/min)	NA					
Volume Purged (L)	NA					
pH	7.00					
Temperature (°C)	8.30					
Conductivity (μmhos/cm)	252					
Dissolved Oxygen (mg/L)	9.93					
Turbidity (NTU)	2					
Eh (mv)	320					

TOTAL QUANTITY OF WATER REMOVED (L): NA

SAMPLERS: JG/BA
SAMPLING TIME (START/END): 0933
SAMPLING DATE: 4/9/99
DECONTAMINATION FLUIDS USED:
SAMPLE TYPE: GRAB
SAMPLE PRESERVATIVES: HCl
SAMPLE BOTTLE IDs: BN-14-VP-EW02
SAMPLE PARAMETERS: VOC
COMMENTS AND OBSERVATIONS: Flow @ 1 gpm

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: Eastern Plume
PROJECT NUMBER: 29600.47.5704
WELL I.D.: EW02A
WELL LOCK STATUS: GOOD
WELL CONDITION: GOOD
WEATHER: CLEAR, 45°F

GAUGE DATE: ~~NA~~ 4/9/99
GAUGE TIME: ~~NA~~ 0900
SOUNDING METHOD: ~~NA~~ Slope indicator
MEASUREMENT REF: ~~NA~~ TOC
STICK UP/DOWN (ft):
WELL DIAMETER (in.):

PURGE DATE: NA
PURGE TIME: NA
PURGE METHOD: NA
FIELD PERSONNEL: JG BA
AMBIENT AIR VOCs (ppm) Start: 0.0 End: 0.0
WELL MOUTH VOCs (ppm): Start: 0.0 End: 0.0

WELL VOLUME

A. WELL DEPTH (ft): NA
B. DEPTH TO WATER (ft): ~~[illegible]~~ 42.65
C. LIQUID DEPTH (ft) (A-B): NA
D. WELL VOLUME/FT (L): NA
E. WELL VOLUME (L) (C*D): NA
F. THREE WELL VOLUMES (L) (E*3): NA

Parameter	Beginning	1	2	3	4	5
Time (min)	0921					
Depth to Water (ft)	—					
Purge Rate (L/min)	NA					
Volume Purged (L)	NA					
pH	7.25					
Temperature (°C)	8.28					
Conductivity (μmhos/cm)	222					
Dissolved Oxygen (mg/L)	9.33					
Turbidity (NTU)	4					
Eh (mv)	209					

TOTAL QUANTITY OF WATER REMOVED (L): NA

SAMPLERS: JG/BA
SAMPLING TIME (START/END): 0922
SAMPLING DATE: 4/9/99
DECONTAMINATION FLUIDS USED: DI
SAMPLE TYPE: GRAB
SAMPLE PRESERVATIVES: HCl
SAMPLE BOTTLE IDs: BN-14-EP-EW02A
SAMPLE PARAMETERS: VOCs
COMMENTS AND OBSERVATIONS: Flow @ 70gpm

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: Eastern Plume
PROJECT NUMBER: 29600.47.7504
WELL I.D.: EW-03
WELL LOCK STATUS: locked
WELL CONDITION: good
WEATHER: clear 50°F

GAUGE DATE: 4/9/99
GAUGE TIME: N/A
SOUNDING METHOD: Slopeindicator
MEASUREMENT REF: TOC
STICK UP/DOWN (ft): NA
WELL DIAMETER (in.): 4

PURGE DATE: NA
PURGE TIME: NA
PURGE METHOD: NA
FIELD PERSONNEL: NA
AMBIENT AIR VOCs (ppm) Start: _____ End: _____
WELL MOUTH VOCs (ppm): Start: _____ End: _____

WELL VOLUME

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

Parameter	Beginning	1	2	3	4	5
Time (min)						
Depth to Water (ft)	Well		off	line		
Purge Rate (L/min)						
Volume Purged (L)						
pH						
Temperature (°C)	Not		Sampled			
Conductivity (μmhos/cm)						
Dissolved Oxygen (mg/L)						
Turbidity (NTU)						
Eh (mv)						

TOTAL QUANTITY OF WATER REMOVED (L): _____

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

SAMPLING DATE: _____ DECONTAMINATION FLUIDS USED: _____

SAMPLE TYPE: _____ SAMPLE PRESERVATIVES: _____

SAMPLE BOTTLE IDs: _____

SAMPLE PARAMETERS: _____

COMMENTS AND OBSERVATIONS: _____

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: Eastern Plume
PROJECT NUMBER: 29600.47.5704
WELL I.D.: EN 04
WELL LOCK STATUS: Good
WELL CONDITION: Good
WEATHER: Clear 50°F

GAUGE DATE: ~~NA~~ 4/9/99
GAUGE TIME: ~~NA~~ 0949
SOUNDING METHOD: ~~NA~~ slope indicator
MEASUREMENT REF: TOC
STICK UP/DOWN (ft): NA
WELL DIAMETER (in.):

PURGE DATE: NA
PURGE TIME: NA
PURGE METHOD: NA
FIELD PERSONNEL: JG/MA
AMBIENT AIR VOCs (ppm) Start: 0.0 End: 0.0
WELL MOUTH VOCs (ppm): Start: 0.0 End: 0.0

WELL VOLUME

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

Parameter	Beginning	1	2	3	4	5
Time (min)	09 50					
Depth to Water (ft)	–					
Purge Rate (L/min)	NA					
Volume Purged (L)	NA					
pH	7.08					
Temperature (°C)	8.73					
Conductivity (μmhos/cm)	83					
Dissolved Oxygen (mg/L)	8.78					
Turbidity (NTU)	0					
Eh (mv)	318					

TOTAL QUANTITY OF WATER REMOVED (L): NA

SAMPLERS: JG/BA
SAMPLING TIME (START/END): 0951
SAMPLING DATE: 4/9/99
DECONTAMINATION FLUIDS USED: DI
SAMPLE TYPE: GRAB
SAMPLE PRESERVATIVES: HCl
SAMPLE BOTTLE IDs: BN-14-EP EN 04
SAMPLE PARAMETERS: VOCs
COMMENTS AND OBSERVATIONS: Flow @ 15 gpm

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: Eastern Plume
PROJECT NUMBER: 21600.47.5704
WELL I.D.: EW 05
WELL LOCK STATUS: GOOD
WELL CONDITION: Good
WEATHER: Clear, 50°

GAUGE DATE: ~~NA~~ 4/9/99
GAUGE TIME: ~~NA~~ 1000
SOUNDING METHOD: Slope indicator
MEASUREMENT REF: TOC
STICK UP/DOWN (ft):
WELL DIAMETER (in.):

PURGE DATE: NA
PURGE TIME: NA
PURGE METHOD: NA
FIELD PERSONNEL: JG/BA
AMBIENT AIR VOCs (ppm) Start: 0.0 End: 0.0
WELL MOUTH VOCs (ppm): Start: 0.0 End: 0.0

WELL VOLUME

A. WELL DEPTH (ft):
B. DEPTH TO WATER (ft): 28.07
C. LIQUID DEPTH (ft) (A-B):
D. WELL VOLUME/FT (L):
E. WELL VOLUME (L) (C*D):
F. THREE WELL VOLUMES (L) (E*3):

Parameter	Beginning	1	2	3	4	5
Time (min)	~~09~~ 1003					
Depth to Water (ft)	—					
Purge Rate (L/min)	NA					
Volume Purged (L)	NA					
pH	7.02					
Temperature (°C)	8.39					
Conductivity (μmhos/cm)	78					
Dissolved Oxygen (mg/L)	6.88					
Turbidity (NTU)	2					
Eh (mv)	326					

TOTAL QUANTITY OF WATER REMOVED (L): NA

SAMPLERS: JG/BA
SAMPLING TIME (START/END): 1004
SAMPLING DATE: 4/9/99
DECONTAMINATION FLUIDS USED: DI
SAMPLE TYPE: GRAB
SAMPLE PRESERVATIVES: HCl
SAMPLE BOTTLE IDs: BN-14-VP-EW-05
SAMPLE PARAMETERS: VOC
COMMENTS AND OBSERVATIONS: Flow @ 15 gpm

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: Eastern Plume Influent
WELL I.D.: Influent
WELL CONDITION: Good

PROJECT NUMBER: 29600.47
WELL LOCK STATUS: NA
WEATHER: Clear. 45°F

GAUGE DATE: NA
SOUNDING METHOD: NA
STICK UP/DOWN (ft): NA

GAUGE TIME: NA
MEASUREMENT REF: NA
WELL DIAMETER (in.): NA

PURGE DATE: 9 Apr 99
PURGE METHOD:
AMBIENT AIR VOCs (ppm) Start: 0.0 End: 0.0

PURGE TIME: NA
FIELD PERSONNEL: NA
WELL MOUTH VOCs (ppm): Start: NA End: NA

WELL VOLUME

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

Parameter	Beginning	1	2	3	4	5
Time (min)	1037					
Depth to Water (ft)	NA					
Purge Rate (L/min)	NA					
Volume Purged (L)	NA					
pH	6.99					
Temperature (°C)	8.42					
Conductivity (μmhos/cm)	160					
Dissolved Oxygen (mg/L)	6.61					
Turbidity (NTU)	0					
Eh (mv)	336					

TOTAL QUANTITY OF WATER REMOVED (L): NA

SAMPLERS: JG
SAMPLING TIME (START/END): 1039
SAMPLING DATE: 4/9/99
DECONTAMINATION FLUIDS USED: None
SAMPLE TYPE: Grab
SAMPLE PRESERVATIVES: HCL
SAMPLE BOTTLE IDs: BN-14-EP-TR001
SAMPLE PARAMETERS: VOCs 8260

COMMENTS AND OBSERVATIONS:

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: Treatment Plant
WELL I.D.: Effluent
WELL CONDITION: Good

PROJECT NUMBER: 29600.017
WELL LOCK STATUS: NA
WEATHER: Clear 45°F

GAUGE DATE: NA
SOUNDING METHOD: NA
STICK UP/DOWN (ft): NA

GAUGE TIME: NA
MEASUREMENT REF: NA
WELL DIAMETER (in.): NA

PURGE DATE: NA
PURGE METHOD: NA
AMBIENT AIR VOCs (ppm) Start: 0.0 End: 0.0

PURGE TIME: NA
FIELD PERSONNEL: JG BA
WELL MOUTH VOCs (ppm): Start: NA End: NA

WELL VOLUME

A. WELL DEPTH (ft): NA
B. DEPTH TO WATER (ft): NA
C. LIQUID DEPTH (ft) (A-B): NA

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

Parameter	Beginning	1	2	3	4	5
Time (min)	1055					
Depth to Water (ft)	NA					
Purge Rate (L/min)	NA					
Volume Purged (L)	NA					
pH	6.85					
Temperature (°C)	11.10					
Conductivity (μmhos/cm)	176					
Dissolved Oxygen (mg/L)	12.02					
Turbidity (NTU)	0					
Eh (mv)	285					

TOTAL QUANTITY OF WATER REMOVED (L): 1L

SAMPLERS: BA, JG
SAMPLING TIME (START/END): 1050
SAMPLING DATE: 4/9/99
DECONTAMINATION FLUIDS USED: None
SAMPLE TYPE: Grab
SAMPLE PRESERVATIVES: ~~HCl~~ Na_2SO_3
SAMPLE BOTTLE IDs: BN-14-TE-TP002 (MS/MSD) & BN-14-EP-TEXD1
SAMPLE PARAMETERS: VOCs 8260
COMMENTS AND OBSERVATIONS: Test for oxidizing agents none detected.

Appendix A.3

Field Record of Surface Water and Sediment Sampling Forms

EA Engineering, Science, and Technology

FIELD RECORD OF SURFACE WATER AND SEDIMENT SAMPLING

Site Name: Sites 1 & 3			Project Number: 29600.47
Sample Location ID: SW-04			Date: 4/13/99
Sampling Time: 1310	Start: 1310	End: 1315	Sample Team Members: JG / BF

SURFACE WATER INFORMATION

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

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

Water Quality Parameters
( ) Temperature 7.42 °C
( ) Conductivity 100 µmhs/cm
( ) ph 7.34 units
( ) Dissolved oxygen 12.22 mg/L
( ) Turibidity 3 NTU
( ) Eh 319 mv

Water Depth and Sample Location 2 (ft)

Depth of Sample from Top of Water 0.6 (ft)

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

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

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

Sample Location Sketch:
( ) Yes
(X) No

Method Used:
( ) Winkler
(X) Probe

SEDIMENT INFORMATION

Type of Sample Collected:
( ) Discrete
( ) Composite

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

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

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

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

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

SAMPLES COLLECTED

Check if Required at this Location	Matrix: Surface Water	Matrix: Sediment	Check if Preserved with Acid/Base	Volume Required	Check if Sample Collected	Sample Bottle IDs
✓	✓		HCL / HNO3	1, 125ml	✓	BN-14-S1-SW04

NOTES/SKETCH

EA Engineering, Science, and Technology

FIELD RECORD OF SURFACE WATER AND SEDIMENT SAMPLING

Site Name: Sites 1 & 3			Project Number: 29600.47	
Sample Location ID: SW 07			Date: 4/13/99	
Sampling Time: 1250	Start: 1250	End: 1259	Sample Team Members: JG/MK	

SURFACE WATER INFORMATION

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

Water Depth and Sample Location .5 (ft)

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

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

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

Water Quality Parameters
(✓) Temperature 7.23 °C
(✓) Conductivity 102 µmhs/cm
(✓) ph 7.18 units
(✓) Dissolved oxygen 12.80 mg/L
(✓) Turibidity 4 NTU
(✓) Eh 322 mv

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

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

Sample Location Sketch:
( ) Yes
(X) No

Method Used:
( ) Winkler
(X) Probe

SEDIMENT INFORMATION

Type of Sample Collected:
( ) Discrete
( ) Composite

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

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

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

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

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

SAMPLES COLLECTED

Check if Required at this Location	Matrix: Surface Water	Matrix: Sediment	Check if Preserved with Acid/Base	Volume Required	Check if Sample Collected	Sample Bottle IDs
✓	✓		HCL/HNO3	1,125ml	✓	BN-14-S1-SW07

NOTES/SKETCH

EA Engineering, Science, and Technology

FIELD RECORD OF SURFACE WATER AND SEDIMENT SAMPLING

Site Name: Site 103			Project Number: 29600.47
Sample Location ID: SW-08			Date: 4/13/99
Sampling Time: 1235	Start: 1235	End: 1239	Sample Team Members: JG / BD

SURFACE WATER INFORMATION

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

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

Water Quality Parameters
(X) Temperature 7.38 °C
(X) Conductivity 101 µmhs/cm
(X) ph 7.27 units
(X) Dissolved oxygen 12.77 mg/L
(X) Turibidity 3 NTU
(X) Eh 320 mv

Water Depth and Sample Location .75 (ft)

Depth of Sample from Top of Water .4 (ft)

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

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

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

Sample Location Sketch:
( ) Yes
(X) No

Method Used:
( ) Winkler
(X) Probe

SEDIMENT INFORMATION

Type of Sample Collected:
( ) Discrete
( ) Composite

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

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

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

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

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

SAMPLES COLLECTED

Check if Required at this Location	Matrix: Surface Water	Matrix: Sediment	Check if Preserved with Acid/Base	Volume Required	Check if Sample Collected	Sample Bottle IDs
✓	✓		HCL/HNO3	1,125ml	✓	BN-14-01-SW08

NOTES/SKETCH

EA Engineering, Science, and Technology

FIELD RECORD OF SURFACE WATER AND SEDIMENT SAMPLING

Site Name: Site 103			Project Number: 29600.47
Sample Location ID: SW-09			Date: 4/13/99
Sampling Time: 1210	Start: 1210	End: 1220	Sample Team Members: JG/AT

SURFACE WATER INFORMATION

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

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

Water Quality Parameters
(✓) Temperature 7.29 °C
(✓) Conductivity 100 µmhs/cm
(✓) ph 7.30 units
(✓) Dissolved oxygen 12.80 mg/L
(✓) Turibidity 3 NTU
(✓) Eh 320 mv

Water Depth and Sample Location .5 (ft)

Depth of Sample from Top of Water 12 (ft)

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

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

Field QC Data: (X) Field Duplicate Collected
Duplicate ID SWXD1
(X) MS/MSD

Sample Location Sketch:
( ) Yes
(X) No

Method Used:
( ) Winkler
(X) Probe

SEDIMENT INFORMATION

Type of Sample Collected:
( ) Discrete
( ) Composite

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

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

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

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

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

SAMPLES COLLECTED

Check if Required at this Location	Matrix: Surface Water	Matrix: Sediment	Check if Preserved with Acid/Base	Volume Required	Check if Sample Collected	Sample Bottle IDs
✓	✓		HCL/HNO3	1,125ml	✓	BN-14-S1-SW09
	✓		HCL/HNO3	1,125ml	✓	BN-14-S1-SWXD1

NOTES/SKETCH

EA Engineering, Science, and Technology

FIELD RECORD OF SURFACE WATER AND SEDIMENT SAMPLING

Site Name: BFW EASTERN PLUME			Project Number: 29600.47
Sample Location ID: SW-10			Date: 4/13/99
Sampling Time: 1055	Start: 1055	End: 1100	Sample Team Members: JG BB, LD, BL

SURFACE WATER INFORMATION

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

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

Water Quality Parameters
(X) Temperature 6.46 °C
(X) Conductivity 95 µmhs/cm
(X) ph 7.35 units
( ) Dissolved oxygen 12.42 mg/L
(X) Turibidity 4 NTU
(X) Eh 324 mv

Water Depth and Sample Location 1.5 (ft)

Depth of Sample from Top of Water .4 (ft)

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

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

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

Sample Location Sketch:
( ) Yes
(X) No

Method Used:
( ) Winkler
(X) Probe

SEDIMENT INFORMATION

Type of Sample Collected:
( ) Discrete
( ) Composite

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

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

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

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

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

SAMPLES COLLECTED

Check if Required at this Location	Matrix: Surface Water	Matrix: Sediment	Check if Preserved with Acid/Base	Volume Required	Check if Sample Collected	Sample Bottle IDs
✓	✓		HCL ✓	3x40 ml	✓	BN-14-EP-SW10

NOTES/SKETCH

EA Engineering, Science, and Technology

FIELD RECORD OF SURFACE WATER AND SEDIMENT SAMPLING

Site Name: Eastern Plume			Project Number: 29600.47
Sample Location ID: SW-11			Date: 4/13/99
Sampling Time: 0935	Start: 935	End: 0940	Sample Team Members: JG/BB

SURFACE WATER INFORMATION

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

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

Water Quality Parameters
(X) Temperature 5.85 °C
(✓) Conductivity 96 µmhs/cm
(✓) ph 7.44 units
(✓) Dissolved oxygen 12.12 mg/L
(✓) Turibidity 3 NTU
(✓) Eh 308 mv

Water Depth and Sample Location .8 (ft)

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

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

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

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

Sample Location Sketch:
( ) Yes
(X) No

Method Used:
( ) Winkler
(X) Probe

SEDIMENT INFORMATION

Type of Sample Collected:
( ) Discrete
( ) Composite

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

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

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

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

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

SAMPLES COLLECTED

Check if Required at this Location	Matrix: Surface Water	Matrix: Sediment	Check if Preserved with Acid/Base	Volume Required	Check if Sample Collected	Sample Bottle IDs
✓	X		HCL ✓	3x40ml	✓	BN-14-EP-SW11

NOTES/SKETCH

EA Engineering, Science, and Technology

FIELD RECORD OF SURFACE WATER AND SEDIMENT SAMPLING

Site Name: EASTERN PLUME			Project Number: 29600 47
Sample Location ID: SW-12			Date: 4/13/99
Sampling Time: 0850	Start: 0850	End: 0855	Sample Team Members: BB, BA, JG,

SURFACE WATER INFORMATION

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

Water Depth and Sample Location 1 (ft)

Depth of Sample from Top of Water 8 (ft)

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

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

Water Quality Parameters
(✓) Temperature 6.25 °C
(✓) Conductivity 94 µmhs/cm
(✓) ph 7.80 units
(✓) Dissolved oxygen 11.90 mg/L
(✓) Turibidity 6 NTU
(✓) Eh 278 mv

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

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

Sample Location Sketch:
( ) Yes
(X) No

Method Used:
( ) Winkler
(X) Probe

SEDIMENT INFORMATION

Type of Sample Collected:
( ) Discrete
( ) Composite

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

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

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

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

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

SAMPLES COLLECTED

Check if Required at this Location	Matrix: Surface Water	Matrix: Sediment	Check if Preserved with Acid/Base	Volume Required	Check if Sample Collected	Sample Bottle IDs
✓	X		HCL	6x40ml	✓	BW-14-EP-SW12
✓	X		HCL	3x40ml	✓	BW-14-EP-SWXD1

NOTES/SKETCH

EA Engineering, Science, and Technology

FIELD RECORD OF SURFACE WATER AND SEDIMENT SAMPLING

Site Name: EASTERN PLUME			Project Number: 29600.47
Sample Location ID: SW-13			Date: 4/13/99
Sampling Time: 1025	Start: 1025	End: 1030	Sample Team Members: JG, BB, LD, BA

SURFACE WATER INFORMATION

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

Water Depth and Sample Location 1.5 (ft)

Depth of Sample from Top of Water .5 (ft)

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

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

Water Quality Parameters
(X) Temperature 8.5 °C
(X) Conductivity 84 µmhs/cm
(X) ph 7.35 units
(X) Dissolved oxygen 10.94 mg/L
(X) Turibidity 13 NTU
(X) Eh 313 mv

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

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

Sample Location Sketch:
( ) Yes
(X) No

Method Used:
( ) Winkler
(X) Probe

SEDIMENT INFORMATION

Type of Sample Collected:
( ) Discrete
( ) Composite

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

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

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

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

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

SAMPLES COLLECTED

Check if Required at this Location	Matrix: Surface Water	Matrix: Sediment	Check if Preserved with Acid/Base	Volume Required	Check if Sample Collected	Sample Bottle IDs
✓	✓		HCL	3x40ml	✓	BN-14-EP-SW13

NOTES/SKETCH

EA Engineering, Science, and Technology

FIELD RECORD OF SURFACE WATER AND SEDIMENT SAMPLING

Site Name: EASTERN Plume			Project Number: 29600.47
Sample Location ID: SW-14			Date: 4/13/99
Sampling Time: 0955	Start: 955	End: 1000	Sample Team Members: JG BB BH LD

SURFACE WATER INFORMATION

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

Water Depth and Sample Location 1.5 (ft)

Depth of Sample from Top of Water .8 (ft)

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

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

Water Quality Parameters
(X) Temperature 8.09 °C
(X) Conductivity 82 µmhs/cm
(X) ph 7.42 units
(X) Dissolved oxygen 16.71 mg/L
(X) Turibidity 6 NTU
(X) Eh 309 mv

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

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

Sample Location Sketch:
( ) Yes
(X) No

Method Used:
( ) Winkler
(X) Probe

SEDIMENT INFORMATION

Type of Sample Collected:
( ) Discrete
( ) Composite

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

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

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

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

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

SAMPLES COLLECTED

Check if Required at this Location	Matrix: Surface Water	Matrix: Sediment	Check if Preserved with Acid/Base	Volume Required	Check if Sample Collected	Sample Bottle IDs
✓	✓		HCL	3x40ml	✓	BN-14-EP-SW14

NOTES/SKETCH

Appendix A.4

Field Record of Seep Sampling Forms

EA Engineering, Science, and Technology

FIELD RECORD OF SURFACE WATER AND SEDIMENT SAMPLING

Site Name: Site 123			Project Number: 24600.47
Sample Location ID: Seep 01			Date: 4/13/99
Sampling Time: 1325	Start: 1325	End: 1330	Sample Team Members: JL BL

SURFACE WATER INFORMATION

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

Water Depth and Sample Location .2 (ft)

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

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

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

Water Quality Parameters
(✓) Temperature 7.42 °C
(✓) Conductivity 529 µmhs/cm
(✓) ph 6.81 units
(✓) Dissolved oxygen 5.51 mg/L
(✓) Turibidity 4 NTU
(✓) Eh 336 mv

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

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

Sample Location Sketch:
( ) Yes
(X) No

Method Used:
( ) Winkler
(X) Probe

SEDIMENT INFORMATION

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

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

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

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

Sample Observations:
( ) Odor _____
(X) Color ORANGE /Brown
( ) _____

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

SAMPLES COLLECTED

Check if Required at this Location	Matrix: Surface Water	Matrix: Sediment	Check if Preserved with Acid/Base	Volume Required	Check if Sample Collected	Sample Bottle IDs
✓	✓		HCL/HNO3	1,125ml	✓	BN-14-SI-LTSW01
✓		✓		8oz	✓	BN-14-SI-LTSD01

NOTES/SKETCH

EA Engineering, Science, and Technology

FIELD RECORD OF SURFACE WATER AND SEDIMENT SAMPLING

Site Name: Site 1 & 3			Project Number: 29600.47
Sample Location ID: Seep 2			Date: 4/13/99
Sampling Time:	Start:	End:	Sample Team Members: JG BA

SURFACE WATER INFORMATION

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

Water Depth and Sample Location _____ (ft)

Depth of Sample from Top of Water _____ (ft)

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

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

Water Quality Parameters
( ) Temperature _____ °C
( ) Conductivity _____ µmhs/cm
( ) ph _____ units
( ) Dissolved oxygen _____ mg/L
( ) Turibidity _____ NTU
( ) Eh _____ mv

Seep 2 DRY
No sample

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

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

Sample Location Sketch:
( ) Yes
( ) No

Method Used:
( ) Winkler
( ) Probe

SEDIMENT INFORMATION

Type of Sample Collected:
( ) Discrete
( ) Composite

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

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

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

- DRY -
No Sample.

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

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

SAMPLES COLLECTED

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

NOTES/SKETCH

EA Engineering, Science, and Technology

FIELD RECORD OF SURFACE WATER AND SEDIMENT SAMPLING

Site Name: Sites 1&3			Project Number: 29600.47
Sample Location ID: Seep 3			Date: 4/13/99
Sampling Time: 1355	Start: 1355	End: 1400	Sample Team Members: JG/BA

SURFACE WATER INFORMATION

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

Water Depth and Sample Location .12 (ft)

Depth of Sample from Top of Water .12 (ft)

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

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

Water Quality Parameters
(X) Temperature 6.57 °C
(X) Conductivity 418 µmhs/cm
(X) ph 6.73 units
(X) Dissolved oxygen 8.76 mg/L
(X) Turibidity >1000 NTU
(X) Eh 318 mv

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

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

Sample Location Sketch:
( ) Yes
(X) No

Method Used:
( ) Winkler
(X) Probe

SEDIMENT INFORMATION

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

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

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

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

Sample Observations:
(X) Odor none
(X) Color Orange
( ) _____

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

SAMPLES COLLECTED

Check if Required at this Location	Matrix: Surface Water	Matrix: Sediment	Check if Preserved with Acid/Base	Volume Required	Check if Sample Collected	Sample Bottle IDs
✓	✓		HCL/HNO3	12 120ml	✓	BN-14-S1- LTSW03
✓		✓	none	8oz	✓	BN-14-S1- LTSD03

NOTES/SKETCH

EA Engineering, Science, and Technology

FIELD RECORD OF SURFACE WATER AND SEDIMENT SAMPLING

Site Name: Sites 1 & 3			Project Number: 29600.47
Sample Location ID: Seep 04			Date: 4/13/99
Sampling Time: 1425	Start: 1425	End: 1430	Sample Team Members: JG BA

SURFACE WATER INFORMATION

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

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

Water Quality Parameters
(X) Temperature 8.10 °C
(X) Conductivity 629 µmhs/cm
(X) ph 6.64 units
(X) Dissolved oxygen 7.89 mg/L
(X) Turibidity 4 NTU
(X) Eh 342 mv

Water Depth and Sample Location .2 (ft)

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

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

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

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

Sample Location Sketch:
( ) Yes
(✓) No

Method Used:
( ) Winkler
(✓) Probe

SEDIMENT INFORMATION

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

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

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

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

Sample Observations:
( ) Odor _____
( ) Color Orange/Brown
( ) _____

Field QC Data: (X) Field Duplicate Collected
Duplicate ID LTXD2
(X) MS/MSD

SAMPLES COLLECTED

Check if Required at this Location	Matrix: Surface Water	Matrix: Sediment	Check if Preserved with Acid/Base	Volume Required	Check if Sample Collected	Sample Bottle IDs
✓	X		HCL/HNO3	1,125	✓	BN-14-S1-LTSW04
✓		X			✓	BN-14-S1-LTSD04
✓		X			✓	BN-14-S1-LTXD2

NOTES/SKETCH

EA Engineering, Science, and Technology

FIELD RECORD OF SURFACE WATER AND SEDIMENT SAMPLING

Site Name: Site 103			Project Number: 29600.47
Sample Location ID: Seep 05			Date: 4/13/99
Sampling Time: 1455	Start: 1455	End: 1505	Sample Team Members: JG, BA

SURFACE WATER INFORMATION

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

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

Water Quality Parameters
(✓) Temperature 10.76 °C
(✓) Conductivity 546 µmhs/cm
(✓) ph 6.87 units
(✓) Dissolved oxygen 6.66 mg/L
(✓) Turibidity 37 NTU
(✓) Eh 327 mv

Water Depth and Sample Location .2 (ft)

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

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

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

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

Sample Location Sketch:
( ) Yes
(X) No

Method Used:
( ) Winkler
(X) Probe

SEDIMENT INFORMATION

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

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

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

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

Sample Observations:
(X) Odor None
(X) Color Orange/Brn.
( ) _____

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

SAMPLES COLLECTED

Check if Required at this Location	Matrix: Surface Water	Matrix: Sediment	Check if Preserved with Acid/Base	Volume Required	Check if Sample Collected	Sample Bottle IDs
✓	✓		HCL (+)N03	1/120ml	✓	BN-14-S1-LTSW05
✓		✓	none	8oz		BN-14-S1-LTSD05

NOTES/SKETCH

EA Engineering, Science, and Technology

FIELD RECORD OF SURFACE WATER AND SEDIMENT SAMPLING

Site Name: Eastern Plume			Project Number: 29600477504
Sample Location ID: Seep-06			Date: 4/21/99
Sampling Time: 1400	Start: 1400	End: 1410	Sample Team Members: SC, BB

SURFACE WATER INFORMATION

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

Water Depth and Sample Location 0.5 (ft)

Depth of Sample from Top of Water 0.2 (ft)

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

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

Water Quality Parameters
(✓) Temperature 8.72 °C
(✓) Conductivity 27 µmhs/cm
(✓) ph 6.70 units
(✓) Dissolved oxygen 10.37 mg/L
(✓) Turibidity 15 NTU
(✓) Eh 112 mv

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

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

Sample Location Sketch:
( ) Yes
(X) No

Method Used:
( ) Winkler
(X) Probe

SEDIMENT INFORMATION

Type of Sample Collected:
( ) Discrete
( ) Composite

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

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

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

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

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

SAMPLES COLLECTED

Check if Required at this Location	Matrix: Surface Water	Matrix: Sediment	Check if Preserved with Acid/Base	Volume Required	Check if Sample Collected	Sample Bottle IDs
✓	✓		HCL	3x 40ml	✓	BN-14-ED-LTSW6

NOTES/SKETCH

EA Engineering, Science, and Technology

FIELD RECORD OF SURFACE WATER AND SEDIMENT SAMPLING

Site Name: Eastern Plume			Project Number: 29600477504
Sample Location ID: Seep-07			Date: 4/21/99
Sampling Time: 1330	Start: 1330	End: 1335	Sample Team Members: SC, BB

SURFACE WATER INFORMATION

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

Water Depth and Sample Location _____ (ft)

Depth of Sample from Top of Water _____ (ft)

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

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

Water Quality Parameters
(X) Temperature 12.22°C
(X) Conductivity 43 µmhs/cm
(X) ph 6.66 units
(X) Dissolved oxygen 7.40 mg/L
(X) Turibidity 24 NTU
(X) Eh 70 mv

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

Field QC Data: (X) Field Duplicate Collected
Duplicate ID BN14EP
( ) MS/MSD LTXD1

Sample Location Sketch:
( ) Yes
( ) No

Method Used:
( ) Winkler
(X) Probe

SEDIMENT INFORMATION

Type of Sample Collected:
( ) Discrete
( ) Composite

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

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

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

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

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

SAMPLES COLLECTED

Check if Required at this Location	Matrix: Surface Water	Matrix: Sediment	Check if Preserved with Acid/Base	Volume Required	Check if Sample Collected	Sample Bottle IDs
✓	✓		HCL	3x40ml	✓	BN14EPLTSW7
✓	✓		HCL	3x40ml	✓	BN14EPLTXD1

NOTES/SKETCH

EA Engineering, Science, and Technology

FIELD RECORD OF SURFACE WATER AND SEDIMENT SAMPLING

Site Name: Eastern Plume			Project Number: 29600477504
Sample Location ID: Seep-08			Date: 4/21/99
Sampling Time: 1345	Start: 1345	End: 1350	Sample Team Members: BB, SC

SURFACE WATER INFORMATION

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

Water Depth and Sample Location _____ (ft)

Depth of Sample from Top of Water _____ (ft)

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

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

Water Quality Parameters
(X) Temperature 13.34 °C
(X) Conductivity 29 µmhs/cm
(X) ph 6.66 units
(X) Dissolved oxygen 7.19 mg/L
(X) Turibidity 12 NTU
(X) Eh 89 mv

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

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

Sample Location Sketch:
( ) Yes
(X) No

Method Used:
( ) Winkler
(X) Probe

SEDIMENT INFORMATION

Type of Sample Collected:
( ) Discrete
( ) Composite

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

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

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

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

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

SAMPLES COLLECTED

Check if Required at this Location	Matrix: Surface Water	Matrix: Sediment	Check if Preserved with Acid/Base	Volume Required	Check if Sample Collected	Sample Bottle IDs
✓	✓		HCL	3x40ml	✓	BN14EPLTSW08

NOTES/SKETCH

Appendix A.5

Field Record of Landfill Gas Monitoring

EA Engineering, Science, and Technology

FIELD RECORD OF LANDFILL GAS MONITORING

Project Name: LTMP ENGINEERING INSPECTION	Project No: 29600.47	Date: 4/20/99
Weather/Temperature/Barometric Pressure: SUNNY, CLEAR, 55°F		
EA Personnel: BCB	Equipment: GA-90	
Equipment Calibration Information:		

ID No.	Labeled/ Capped	Probe/Vent Locked	Casing/Seal Condition	Depth to Bottom (ft)	Pressure (in. ~~H_2O~~ HG)	Percent Methane	Percent Oxygen	Percent CO_2	Comments
1			GOOD		29.7	0	20.8	0	NO VISIBLE BURROWS
2			GOOD		29.7	0	21.0	0	LARGE ANIMAL BURROW
3			GOOD		29.7	0	21.0	0	SMALL ANIMAL BURROWS
4			GOOD		29.7	0	21.0	0	NO VISIBLE BURROWS
5			GOOD		29.7	0	21.1	0	MULTIPLE ANIMAL BURROWS
6			GOOD		29.7	0	20.9	0	MULTIPLE ANIMAL BURROWS
7			GOOD		29.7	0	21.1	0	MULTIPLE ANIMAL BURROWS
8			GOOD		29.7	0	21.2	0	MULTIPLE ANIMAL BURROWS
9			GOOD		29.7	0.1	21.1	0	MULTIPLE ANIMAL BURROWS
10			GOOD		29.7	0	21.1	0	MULTIPLE ANIMAL BURROWS
11			GOOD		29.7	0	21.2	0	MULTIPLE ANIMAL BURROWS
12			INC.		29.7	0	20.7	0	NO VISIBLE BURROWS
13			INC.		29.7	0.1	20.4	0.6	MULTIPLE ANIMAL BURROWS
14			GOOD		29.7	0	20.9	0	MULTIPLE ANIMAL BURROWS

GAS PROBES						
4	GOOD	29.7	0.1	19.2	1.4	—
5	GOOD	29.7	0.1	18.9	3.3	—
6	GOOD	29.7	0.2	20.1	0.3	—

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Appendix B

Analytical Data Quality Review

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APPENDIX B
ANALYTICAL DATA QUALITY REVIEW

B.1 INTRODUCTION

This project utilized both field and analytical laboratory quality control measures to ensure that the data quality objectives presented in the project-specific Quality Assurance Project Plan (QAPP) (EA 1998)[1] were met.

The sampling program consisted of 68 aqueous samples (of which 8 were field duplicates) (ground-water, surface water, and leachate seep samples) collected from Sites 1 and 3 and Eastern Plume, and 5 sediment samples (of which 1 was a field duplicate) collected from Sites 1 and 3. For the combined analyses for these sites, the laboratory was provided with 1 sediment and 6 aqueous sample delivery groups (SDG) which included 2 rinsate blanks, 4 trip blanks, and 1 source water blank. Field sample duplicates and source water, equipment rinsate, and trip blanks were collected at the frequency required by the QAPP.

Analytical quality control was reviewed for compliance against data quality objectives established for precision and accuracy for each sample and analysis type, including field quality control blanks (i.e., trip blank) and field sample duplication. Analytical precision was based upon the mean relative percent difference (RPD) of the matrix spike/matrix spike duplicates (MS/MSD) for organic analysis and the RPD of the laboratory duplicates for inorganic analysis. Accuracy was based upon the reported spike recoveries for the laboratory control standard (LCS), MS/MSD and system monitoring compound (SMC) recoveries (for organic analysis), and LCS and MS recoveries (for inorganic analysis).

The ability of the laboratory to extract compounds is confirmed by the recoveries of the LCS. MS/MSD and SMC recoveries measure the effect of the sample matrix on sample preparation and measurement methodology. Known quantities of target compounds are spiked into the sample matrix for the MS/MSD, and recoveries are used to measure potential bias due to matrix effects. SMC, which are structurally similar to the targeted analytes, are used to evaluate the recovery of the target compounds, which are then used as indicators for all of the analytes. The accuracy of the LCS spike recoveries is used in conjunction with the MS/MSD when evaluating organic analyses.

Data completeness was quantified by reviewing the number of usable results to the number of results reported. Reported field sample completeness was quantified by comparing the number of samples specified in the Draft Long-Term Monitoring Plan (LTMP) (EA 1998) to the number of samples collected during Monitoring Event 14.

1. EA Engineering, Science, and Technology. 1998. Draft Long-Term Monitoring Plan. Sites 1 and 3 and Eastern Plume, Naval Air Station, Brunswick, Maine. Prepared for Department of the Navy Northern Division, Naval Facilities Engineering Command. October.

For clarity, the following terms are defined for use throughout Appendix B:

- **Instrument Detection Limit (IDL)?** Defined as the lowest concentration that can be determined to be statistically different from instrument background noise (instrument blank).

- **Method Detection Limit?** The minimum concentration of a substance that can be measured and reported with 99 percent confidence that the analyte concentration is greater than zero and is determined from analysis of a sample for a given matrix. The method detection limits for soil and aqueous media are summarized in Appendix B.1.

- **Contract Required Detection Limit/Contract Required Quantitation Limit (CRDL/CRQL)?** Minimum level of detection acceptable under the contract Statement of Work in order to ensure regulatory compliance. This terminology is widely accepted in the industry as defined by the U.S. Environmental Protection Agency (EPA) contract laboratory protocols and is a standard list of inorganic analyte concentrations and organic compound concentrations on which laboratory flags and data validation qualifiers are based. These published concentrations are meant to be above the laboratory IDLs in order toensure a level of confidence. The published CRDLs/CRQLs are specific to the Contract Laboratory Program methodology but are often used throughout industry methods. The data user should be aware that stated CRDLs/CRQLs are generic for a method and are affected for each sample by sample size, concentration, percent solids, and dilution factors.

- **Practical Quantitation Limit?** Defined as the lowest level that can be reasonably achieved within specified units of precision and accuracy during routine laboratory operating conditions.

The following sections summarize the results of this program:

Data Quality Review		Holding Time	Field Blank Contamination	Precision		Accuracy			Completeness	
				Laboratory	Field	SMC	MS/MSD	LCS	Analytical	Field
Aqueous	VOC	✓	✓B	✓	✓J	✓	✓	✓		
	Metals	✓	✓B	✓	✓J	NA	✓	✓		
Sediment	VOC	✓	✓B	✓	✓	✓	✓	✓	100%	100%
	Metals	✓	✓B	✓	✓	NA	✓	✓		

NOTE:
VOC = Volatile organic compounds.
✓ = The data are usable as reported based on the data quality review of this quality measurement.
B = The data have been affected by field blank/laboratory contamination; false-positives may exist.
✓J = The data are usable, however, some analyte concentrations should be considered estimates of their true concentrations.
NA = The quality measurement does not apply to this matrix or analytical methodology.

All volatile organic compound (VOC) and metals data for Sites 1 and 3 and Eastern Plume are usable as reported based on the accuracy and precision review provided herein. Minor sample biases are identified and a detailed description of field/laboratory blank contamination (Section B.6) and accuracy issues (Section B.4) are provided below.

B.1.1 Field Sampling Program Quality Control

Field sampling quality control was acceptable and conducted according to the Draft QAPP (EA 1998). A field quality control duplicate sample was collected for each matrix (i.e., sediment and water) and analyzed for the same parameters as the environmental samples to determine field sampling precision. The potential for cross-contamination of volatile organics during sample storage and shipment was monitored by trip blanks which were shipped with each sample cooler containing aqueous samples. The trip blanks were analyzed for VOC by EPA SW-846, Method 8260B. To document the effectiveness of decontamination protocols, rinsate blank samples were collected by running de-ionized water through non-dedicated sampling equipment into the appropriate sample containers and analyzing for the same parameters as the environmental samples. In addition, a source water blank was analyzed to assess the chemical quality of the water used in the decontamination process. The source water blank was also analyzed for the same parameters as the environmental samples.

B.1.2 Laboratory Analytical Quality Control Program

The precision and accuracy objectives and reporting requirements identified in the Draft LTMP were met. Ground-water samples collected at Sites 1 and 3 and the Eastern Plume were analyzed for Target Compound List (TCL) VOC by EPA Method 8260B. Surface water and leachate station seep and sediment samples were collected at Sites 1 and 3 for analysis of TCL by EPA Method 8260B and Target Analyte List (TAL) elements, including metals by inductively coupled plasma (EPA Method 6010A) and mercury by cold vapor atomic adsorption (EPA Method 7471A/7470M[2]). Arsenic, selenium, thallium, and chromium were analyzed by inductively coupled plasma (EPA Method 6010) rather than graphite furnace atomic adsorption (EPA 7000 series methods) as specified in Draft LTMP (EA 1998); the precision and accuracy objectives and reporting requirements identified in the LTMP were met. The quality control measures specified in the SW-846 methodology (MS/MSD, SMC, LCS, and laboratory duplicates), as well as those in the QAPP (EA 1998), were used by the laboratory to establish proper analytical quality control.

The range of results for the data quality objective parameters is discussed for each sample matrix in the sections below.

B.2 SAMPLE HOLDING TIMES

The holding times were met for all methods and sample matrixes; all data are usable as reported. Holding times (defined as from date of sample collection to date of sample preparation/analyses) were compared against the maximum holding times identified in the quality control requirements of the referenced analytical methods.

2. To use a microwave digestion versus water bath.

B.3 PRECISION

B.3.1 Volatile Organic Compounds

The surface water, monitoring wells, combined effluent, and seep sediment sample results are usable as reported based on precision criteria. Five VOC were used to qualify the MS/MSD RPD. The control limits identified in the QAPP were used to evaluate the data. MS/MSD sets were performed on Samples MW-202 and SW-9 from Sites 1 and 3; MW-308, MW-231, and P-132 from Eastern Plume; and sediment seep Sample LT-4 from Sites 1 and 3. A surface water sample and treatment plant sample were designated for MS/MSD analyses for the Eastern Plume site, however, the laboratory did not analyze these samples. Consequently, the surface water and treatment plant samples for the Eastern Plumewere not evaluated for analytical precision.

The surface water and monitoring well sample MS/MSD RPDs (from Sites 1 and 3 and Eastern Plume) met acceptance criteria, therefore, the analytical precision was determined to be acceptable and the aqueous VOC data usable asreported based on the review of laboratory precision. All laboratory prepared spikes (performed in both method blanks and LCS) had acceptable RPDs.

The solid seep sample MS/MSD RPDs from Sites 1 and 3 met acceptance criteria, therefore, the analytical precision was determined to be acceptable and the sediment VOC data usable as reported based on the review of laboratory precision.

B.3.2 Target Analyte List Metals

The aqueous and sediment laboratory duplicate precision measurements were within the laboratory control limits, therefore, the aqueous and sediment metals data are considered usable based on the review of analytical precision. All 23 analytes were used to quantify the laboratory duplicate RPD. There were no control limits identified in the QAPP for aqueous or sediment duplicate RPD for TAL metals, therefore, the laboratory control limits were used. The laboratory replicated the analyses of Samples QD-1, LT-4, MW-202A, and SW-9.

B.4 ACCURACY

B.4.1 Volatile Organic Compounds

The surface water, monitoring well, combined effluent, and seep sediment results are usable as reported. Three SMCs are normally used to measure the ability of the laboratory to purge the target analytes from the environmental samples; however, the laboratory reported an additional SMC. The SMC control limits for the aqueous and sediment samples identified in the QAPP and reported by the laboratory were identical forthe first three SMC. The fourth SMC, dibromofluoromethane, was not listed in the QAPP; therefore, laboratory limits were used to evaluate the data.

The aqueous SMC recoveries were within the QAPP control limits, with the exception of 1,2-dichloroethane-d4 in 5 samples (SEEP-3 [118 percent], SEEP-4 [117 percent], SEEP-5 [122 percent], SW-7 [122 percent], and rinsate blank QS-002 [117 percent]), and in 5 diluted samples (P-106 [128 percent], MW-205 [135 percent], MW-331 [120 percent], EW-2A [115 percent], and EW-4 [118 percent]); dibromofluoromethane in 6 samples (MW-205 [79 percent], MW-331 [85 percent], treatment plant effluent [82 percent], SEEP-5 [126 percent], rinsate blank QS-002 [120 percent], and SW-7 [125 percent]) and in 4 diluted samples (MW-205 [119 percent], MW-331 [120 percent], EW-4 [122 percent], and treatment plant Eastern Plume influent [119 percent]); and toluene-d8 in 3 samples (treatment plant effluent [114 percent], EW-2 [113 percent], and SW-9 [118 percent]) and in 2 diluted samples (EW-2A [114 percent] and treatment plant Eastern Plume influent [112 percent]). The recoveries stated previously were, however, inside the laboratory control limits and, therefore, are usable as reported for both Sites 1 and 3 and the Eastern Plume, based on the review of SMC accuracy.

The sediment SMC recoveries were within the QAPP control limits, with the exception of dibromofluoromethane in the reanalysis of sample LT-1 (48 percent); toluene in 2 samples (LT-1 [72 percent] and LT-3 [87 percent]) and in 2 reanalyzed samples (LT-1 [82 percent] and LT-3 [79 percent]); and bromofluorobenzene in 5 samples (LT-1 [79 percent], LT-3 [47 percent], LT-4 [68 percent], LT-4 DUP [77 percent], and LT-5 [64 percent]) and in 2 reanalyzed samples (LT-1 [60 percent] and LT-3 [43 percent]). Of the above mentioned sample recoveries, toluene in 2 samples (LT-1 and LT-3) and 2 reanalyzed samples (LT-1 and LT-3) and bromofluorobenzene in 3 samples (LT-4, LT-4 DUP, and LT-5) were within the laboratory limits and, therefore, are usable as reported for Sites 1 and 3. The remaining sample recoveries of toluene in the reanalysis of LT-1 and bromofluorobenzene in 2 samples (LT-1 and LT-3) and 2 reanalyzed samples (LT-1 and LT-3) were also outside the laboratory limits. The laboratory appropriately repeated the analysis results for these samples. The re-analysis results indicated similar results for the SMC. The re-analysis and the original analysis results for the above-mentioned samples should be considered most usable and, therefore, the data are included in the summary tables. The data user should be aware that the low recoveries of this SMC indicate a possible low analytical bias due to sample matrix, and the sample data should still be considered usable.

Five VOC were used to quantify the MS/MSD recoveries against QAPP control limits. The recovery limits identified in the QAPP were different than those reported by the laboratory. The data Reviewer used the QAPP limits to evaluate the data. The laboratory performed MS/MSD spikes on Samples MW-202 and SW-9 from Sites 1 and 3; MW-308, MW-231, and P-132 from Eastern Plume; and sediment seep Sample LT-4 from Sites 1 and 3. A surface water sample and treatment plant sample were designated for MS/MSD analyses for the Eastern Plume site, however, the laboratory did not analyze these samples. Consequently, the surface water and treatment plant samples for the Eastern Plumewere not evaluated for analytical accuracy.

The aqueous and sediment MS/MSD recoveries for Sites 1 and 3 and Eastern Plume were within the established control limits, therefore, all data are usable as reported based on the review of MS/MSD accuracy.

The aqueous and sediment VOC data are usable as reported based on the review of LCS accuracy. Five VOC are used to quantify LCS recoveries against laboratory established control limits. Although no LCS recovery limits are stated in the QAPP, the aqueous and sediment LCS recoveries are within laboratory established control limits, confirming the laboratory's purging efficiency for both aqueous and solid matrices.

B.4.2 Target Analyte List Metals

All metals are usable as reported based on accuracy criteria. Nineteen TAL analytes were used to quantify MS recoveries for aqueous and sediment samples. Calcium, magnesium, potassium, and sodium were not required as spiking compounds due to the potential for these compounds to be present in the environmental samples at high concentrations. The MS samples were analyzed at the correct frequency, and the accuracy control limits used to evaluate the data were taken from the QAPP.

The laboratory performed an MS on 3 aqueous (MW-202A, SW-9, and the source water blank). The MS recoveries were within the established control limits of 75-125 percent, therefore, all data are usable as reported based on the review of MS/MSD accuracy.

The laboratory performed an MS on solid seep sample LT-4. The MS recoveries for sample LT-01 were within the established control limits, with the exception of aluminum (143.1 percent) and antimony (70.8 percent). The analytical results for aluminum should be considered estimated in the following samples: LT-1, LT-3, LT-4, LT-5, and LT-4 DUP. The non-detect results for antimony should be considered estimated in the following samples: LT-1, LT-3, LT-4, LT-5, and LT-4 DUP.

All 23 TAL analytes were used to quantify the LCS recoveries against laboratory established control limits. No LCS recovery limits were stated in the QAPP. The aqueous LCS recoveries for Sites 1 and 3 and Eastern Plume samples were within laboratory established control limits, confirming the laboratory's ability to perform sample digestion/distillation. The aqueous and sediment results should be considered usable based on the review of the LCS accuracy.

B.5 COMPLETENESS

Field sampling completeness was quantified by comparing the number of samples analyzed to the number of samples scheduled for collection. At Sites 1 and 3, 24 of 24 samples were collected for a field completeness of 100 percent. At Eastern Plume, 49 of 49 samples were collected for a field completeness of 100 percent.

The field quality control blanks (e.g., trip blanks) were collected at the proper frequency. A total of 3 trip blanks were collected for Sites 1 and 3 and Eastern Plume. There were 2 rinsate blanks associated with Sites 1 and 3 and Eastern Plume. The rinsate blanks collected for Sites 1 and 3 and Eastern Plume included 1 rinsate blank associated with the sediment samples and 1 was

associated with the surface water/seep samples. The 2 rinsate samples and 1 source water blank for Sites 1 and 3 and Eastern Plume were submitted in compliance with the QAPP.

Analytical completeness was quantitated by reviewing the number of acceptable analytical results to the total number of analytical results. Usable analytical data for Sites 1 and 3 and Eastern Plume were available for all analytes/compounds, therefore, there is a total analytical completeness of 100 percent.

B.6 FIELD QUALITY CONTROL BLANKS

Monitoring well, surface water, seep, and field blank samples contain results that are false-positive based on both field and method blank criteria. Field quality control blanks (rinsate blanks) were evaluated for contamination that may have been introduced during field sampling activities. Trip blanks are indicators for contamination of VOC during sample shipment. In cases where contamination exists, environmental samples should be reviewed for possible false-positives. The field quality control blanks collected for Sites 1 and 3 and Eastern Plume included 4 trip blanks, 2 rinsate blanks, and 1 source water blank.

B.6.1 Laboratory Method Blanks

Method blanks were reviewed and the following VOC were present in the method blanks: methylene chloride, chloroform, 1,1,1-trichloroethane, trichloroethene, acetone, and 2-butanone. Trichloroethene, 1,1,1-trichloroethane, and 2-butanone were not considered false-positives in any of the samples for Sites 1 and 3 or the Eastern Plume because the results were either greater than 5X the method blank value or a non-detect value.

The positive methylene chloride results for 32 samples (MW-202A, MW-202A DUP, MW-203, MW-218, MW-219, MW-240, TRIP-3, rinsate blank QS-2, source water blank, SEEP-3, MW-225A, MW-231A, MW-231A DUP, MW-305, MW-306, MW-318, MW-332, MW-333, MW-NASB-212, P-132, TRIP-1, SW-12, rinsate blank QS-1, EW-1, EW-2, EW-3, EW-4, EW-2A, EW-5, Eastern Plume influent, Combined Effluent, and Combined Effluent DUP) should be considered false-positives due to method blank contamination.

The positive acetone results for 5 samples (TRIP-1, MW-231B, MW-313, MW-231A, and MW-231A DUP) should be considered false-positives due to method blank contamination.

The positive chloroform results for 2 samples (LT-4 DUP and LT-5) should be considered false-positives due to method blank contamination.

B.6.2 Trip Blanks

Trip blanks associated with Sites 1 and 3 and Eastern Plume were analyzed for VOC. The results of the 4 trip blanks are shown in the following table:

Compounds	Units	TRIP-1	TRIP-2	TRIP-3	TRIP-5
Acetone	Fg/L	3JB	3J	(<5U)	(<5U)
Methylene Chloride	Fg/L	1B	2	2B	(<5U)

NOTE: J = Estimated concentration below detection limit.
B = Compound detected in associated method blank.
U = Not detected. Sample quantitation limits are shown as (<___U).

The positive acetone results in 5 samples (MW-303, MW-306, MW-308, MW-318, and MW-331) should be considered false-positives. The positive results in 5 samples (TRIP-1, MW-231B, MW-313, MW-231A, MW-231A DUP) were previously noted as false-positives due to method blank contamination (see above for more details). All non-detected acetone data are unaffected.

The positive methylene chloride results in 7 samples (MW-230A DUP, MW-308, MW-309B, MW-330, MW-331, MW-334, and MW-1104) should be considered false-positives. The positive results in 32 samples (MW-202A, MW-202A DUP, MW-203, MW-218, MW-219, MW-240, TRIP-3, rinsate blank QS-2, source water blank, SEEP-3, MW-225A, MW-231A, MW-231A DUP, MW-305, MW-306, MW-318, MW-332, MW-333, MW-NASB-212, P-132, TRIP-1, SW-12, rinsate blank QS-1, EW-1, EW-2, EW-3, EW-4, EW-2A, EW-5, Eastern Plume influent, Combined Effluent, and Combined Effluent DUP) were previously noted as false-positives due to method blank contamination (see above for more details). The methylene chloride concentrations in 3 samples (MW-229A, MW-230A, and MW-311) were high enough not to be affected by the associated trip blank and method blank contaminations. All non-detected acetone data are unaffected.

B.6.3 Rinsate Blanks

The equipment rinsate blanks associated with sediment and surface water samples collected at Sites 1 and 3 and Eastern Plume were analyzed for VOC and TAL metals. The positive results of the 2 rinsate blanks (QS-1 [dedicated jar rinsate] and QS-2 [equipment rinsate]) and the associated source water blank (QD-1) associated with Sites 1 and 3 and Eastern Plume are shown in the table below:

Compounds/Analytes	Units	QS-1	QS-2	QD-1
Acetone	Fg/L	(<5U)	2J	(<5U)
Methylene Chloride	Fg/L	0.9JB	4B	1B
Cadmium	Fg/L	(<1.94U)	(<0.26U)	2.6B*
Calcium	Fg/L	38.0B*	37.0B*	34.1B*
Chromium	Fg/L	(<4.31U)	1.3B*	(<4.31U)
Copper	Fg/L	(<1.62U)	2.1B*	(<1.62U)
Iron	Fg/L	6.5B*	41.3B*	4.7B*
Lead	Fg/L	2.3B*	1.3B*	2.3B*
Magnesium	Fg/L	20.7B*	11.8B*	(<17.16U)
Manganese	Fg/L	(<0.97U)	0.58B*	(<0.97U)
Silver	Fg/L	2.8B*	1.8B*	(<2.54U)
Sodium	Fg/L	135	82.8B*	69.9B*
Zinc	Fg/L	2.4B*	1.1B*	(<0.48U)

NOTE: U = Not detected. Sample quantitation limits are shown as (<___U).
J = Estimated concentration below detection limit.
B = Compound detected in associated method blank.
B* = Analyte concentration is between the IDL and the CRDL.

The analytical results of the equipment rinsate blanks and source water blank indicate that there was minor VOC contamination present. See prior method blank and trip blank discussions for actions taken for methylene chloride contamination. The analytical results for acetone in 2 samples (SEEP-3 and SEEP-5) should be considered false-positive due to rinsate blank contamination.

Analytes calcium, iron, magnesium, and manganese in the samples far exceed the associated source water blank and rinsate blank contamination, therefore, samples were unaffected by calcium, iron, magnesium, and manganese contamination.

Lead was identified in both the rinsate blanks and the source water blank. The appearance of lead in the associated source water blank indicates that this analyte is a contaminant of the rinse water and not a constituent left by poor decontamination procedures. Six samples (SW-9, SW-4, SW-7, SW-8, LT-4, and SEEP-5) had positive concentrations of lead within the expected range of variability of the rinsate blank contamination and should, therefore, be considered as false-positives due to rinsate blank contamination.

Sodium was identified in both the rinsate blanks and the source water blank. The appearance of sodium in the associated source water blank indicates that this analyte is a contaminant of the rinse water and not a constituent left by poor decontamination procedures. Five samples (LT-1, LT-4 DUP, LT-3, LT-4, and LT-5) had positive concentrations of sodium within the expected range of variability of the rinsate blank contamination and should, therefore, be considered as false-positives due to rinsate blank contamination.

Cadmium was identified in the source water blank. Six samples (SW-4, SW-9 DUP, LT-1, LT-3, SEEP-4, and SEEP-5) had positive concentrations of cadmium within the expected range of variability of the source water blank contamination and should, therefore, be considered as false-positives due to rinsate blank contamination.

Chromium was identified in the rinsate blank. Five samples (SW-4, SW-7, SW-8, LT-1, and SEEP-4) had positive concentrations of chromium within the expected range of variability of the rinsate blank contamination and should, therefore, be considered as false-positives due to rinsate blank contamination.

Copper was identified in the rinsate blank. Nine samples (SW-4, SW-7, SW-8, SW-9, SW-9 DUP, LT-1, LT-3, SEEP-4, and SEEP-5) had positive concentrations of copper within the expected range of variability of the rinsate blank contamination and should, therefore, be considered as false-positives due to rinsate blank contamination.

Silver was identified in the rinsate blank. Nine samples (SW-4, SW-7, SW-8, SW-9 DUP, LT-3, LT-4, LT-4 DUP, SEEP-4, and SEEP-5) had positive concentrations of silver within the expected range of variability of the rinsate blank contamination and should, therefore, be considered as false-positives due to rinsate blank contamination.

Zinc was identified in the rinsate blank. Two samples (SW-9 and SEEP-4) had positive concentrations of zinc within the expected range of variability of the rinsate blank contamination and should, therefore, be considered as false-positives due to rinsate blank contamination.

B.7 DUPLICATE FIELD SAMPLES

Results for some analytes and compounds in the field duplicates for monitoring well, aqueous seep, and leachate sediment samples are estimated due to field duplicate criteria. Field duplicate samples are used to evaluate the overall precision for both the field and laboratory, and the homogeneity of the sample matrix. Typically, these results have more variability than laboratory precision measurements with the extremes being noted in soil matrices. Based on EPA Region I criteria for evaluating field duplicates, the following guidelines were used to review the field duplicates taken during the sampling event. The overall precision of organic compounds was evaluated as the RPD (non-detects were defined as one-half the reporting limit) and considered acceptable at an RPD of less than 30 percent for water samples and 50 percent for soil samples. Overall precision for inorganic analytes was evaluated by reviewing the difference of the field duplicate for analytes with concentrations less than 5X the reporting limit (the difference cannot be greater than "2X the reporting limit for water samples or cannot be greater than "4X reporting limit for soil samples), and by the RPD (less than 30 percent for water samples and 50 percent for soil samples) for the analytes greater than 5X the reporting limit. Non-detects were defined as one-half the reporting limit for difference measurements. The reporting limits used to evaluate the data are based on those presented in the QAPP.

The sample locations of the field duplicated samples were not identified to the laboratory. A total of 9 samples were duplicated for Sites 1 and 3 and Eastern Plume (collected during the ground-water, surface water, sediment, seep, and treatment plant sampling programs). Each SDG had the appropriate number of duplicate field samples collected. The RPD results from the 4 field duplicate ground-water samples, 2 field duplicate surface water sample, 1 field duplicate leachate seep sample, 1 field duplicate leachate sediment sample, and 1 field duplicate effluent sample are shown in the tables below.

The following table shows the field duplicate results from the surface water samples associated with SDG S1SW9:

Compounds/Analytes	Units	SW-9	SW-9 DUP	RPD%	Difference
Aluminum	Fg/L	(<20.93U)	49.5B*	NA	39.04
Barium	Fg/L	21.5	22.0	NA	0.5
Cadmium	Fg/L	(<0.26U)	0.28B*	NA	0.15
Calcium	Fg/L	6,350	6,180	2.7	NR
Cobalt	Fg/L	(<0.64U)	0.96B*	NA	0.64
Copper	Fg/L	3.0B*	2.8B*	NA	0.2
Iron	Fg/L	450	477	5.83	NR
Lead	Fg/L	2.6B*	(<1.09U)	NA	2.06
Magnesium	Fg/L	1,440	1,440	0	NR
Manganese	Fg/L	132	129	2	NR
Mercury	Fg/L	0.14B*	0.03B*	NA	0.11
Nickel	Fg/L	(<0.85U)	1.8B*	NA	1.38
Potassium	Fg/L	1,700	1,640	NA	60
Silver	Fg/L	(<0.69U)	1.0B*	NA	0.66
Sodium	Fg/L	15,500	15,300	1	NR
Zinc	Fg/L	4.9B*	6.1B*	NA	1.2

NOTE: U = Not detected. Sample quantitation limits are shown as (<__U).
B* = Analyte concentration is between the IDL and the CRDL.
NA = Not applicable; analyte concentration was less than 5X the reporting limit.
NR = Not required; analyte concentration was greater than 5X the reporting limit and, therefore, the RPD was applied.
Results in bold indicate an exceedance of the precision requirements.

All precision requirements were met for the field duplicate analyses; the results are usable as reported.

The following table shows the field duplicate results from the surface water samples associated with SDG EPSW12:

Compound/Analyte	Units	SW-12	SW-12 DUP	RPD%
Methylene Chloride	Fg/L	0.5JB	(<1U)	0

NOTE: J = Estimated concentration below detection limit.
B = Compound detected in associated method blank.
U = Not detected. Sample quantitation limits are shown as (<__U).
Results in bold indicate an exceedance of the precision requirements.

The data user should note that the results for methylene chloride should be considered false-positive due to method blank contamination and, therefore, the precision criteria would not apply. All precision requirements were met for the field duplicate analyses (see Section B.6 for discussion); the results are usable as reported.

The following tables show the field duplicate sample results associated with the monitoring well samples at Sites 1 and 3.

The following table shows the field duplicate sample results associated with SDG S1MW2101:

Compounds/Analytes	Units	MW-202A	MW-202S DUP	RPD%	Difference
1,1-Dichloroethane	Fg/L	3	4	28	---
Methylene Chloride	Fg/L	2B	2B	0	---
1,1,2,2-Tetrachloroethane	Fg/L	10	12	18	---
Trichloroethene	Fg/L	(<1U)	2	**120**	---
1,1,1-Trichloroethane	Fg/L	37	43	15	---
Tetrachloroethene	Fg/L	1	2	**67**	---
1,1,2-Trichloroethane	Fg/L	3	4	28	---
Barium	Fg/L	49.8	52.3	4.9	NR
Cadmium	Fg/L	2.6B*	0.81B*	NA	1.79
Calcium	Fg/L	71,000	86,400	19.6	NR
Chromium	Fg/L	10.6B*	2.6B*	NA	8
Cobalt	Fg/L	8.5B*	11.9B*	NA	3.4
Copper	Fg/L	7.5B*	7.6B*	NA	0.1
Iron	Fg/L	8,030	11,000	**31**	NR
Magnesium	Fg/L	9,120	10,600	15	NR
Manganese	Fg/L	878	1,140	26	NR
Mercury	Fg/L	0.02B*	0.03B*	NA	0.01
Nickel	Fg/L	47.0	37.7B*	NA	9.3
Potassium	Fg/L	6,670	5,770	14	NR
Silver	Fg/L	(<0.69U)	1.8B*	NA	1.45
Sodium	Fg/L	13,500	14,400	6	NR
Zinc	Fg/L	9.8B*	5.7B*	NA	4.1

NOTE: NR = Not required; analyte concentration was greater than 5X the reporting limit and, therefore, the RPD was applied.
B* = Analyte concentration is between the IDL and the CRDL.
NA = Not applicable; analyte concentration was less than 5X the reporting limit.
U = Not detected. Sample quantitation limits are shown as (<__U).
Results in bold indicate an exceedance of the precision requirements.

All precision requirements were met for the field duplicate analyses with the exception of trichloroethene, tetrachloroethene, and iron. The results for trichloroethene, tetrachloroethene, and iron should be considered estimations of their true concentrations in Sample MW-202A due to the lack of precision between field sample duplicates.

The field duplicate sample results for aqueous seep samples associated with SDG EPSW12 (SEEP-7 and SEEP-7 DUP) had no detected analytes (analyzed for volatile organic analytes only as per the scope of work) for organics and, therefore, met all precision requirements. The analytical results for SEEP-7 are usable as reported based on review of the field duplicate precision.

The following table shows the results of theleachate sediment sample field duplicate associated with S1LTSD1:

Compounds/Analytes	Units	LT-4	LT-4 DUP	RPD%	Difference
Aluminum	mg/kg	432	590	NA	158
Arsenic	mg/kg	18.3	25.3	NA	7
Barium	mg/kg	669	751	11	NR
Calcium	mg/kg	12,200	11,300	8	NR
Cobalt	mg/kg	54.9	58.8	NA	3.9
Iron	mg/kg	478,000	490,000	2.5	NR
Lead	mg/kg	11.0	14.1	NA	3.1
Magnesium	mg/kg	419	364	14	NR
Manganese	mg/kg	30,700	39,000	24	NR
Mercury	mg/kg	0.30	0.18	NA	0.12
Nickel	mg/kg	12.0B*	12.4B*	NA	0.4
Potassium	mg/kg	940B*	922B*	NA	18
Selenium	mg/kg	14.9	23.5	NA	8.6
Silver	mg/kg	3.6B*	5.1B*	NA	1.5
Sodium	mg/kg	302	279	NA	23
Thallium	mg/kg	14.5B*	16.2B*	NA	1.7
Vanadium	mg/kg	6.6B*	8.6B*	NA	2
Zinc	mg/kg	22.9B*	22.9B*	NA	0

NOTE: NA = Not applicable; analyte concentration was less than 5X the CRDL.
NR = Not required; analyte concentration was greater than 5X the CRDL and, therefore, the RPD was applied.
B* = Analyte concentration is between the IDL and the CRDL.
Results in bold indicate an exceedance of the precision requirements.

All precision requirements were met for the field duplicate analyses; the results are usable as reported.

The following tables shows the field duplicate sample results associated with the Eastern Plume monitoring well samples.

The following table shows the first set of field duplicate sample results associated with the samples from SDG EPMW231A:

Compounds	Units	MW-231A	MW-231A DUP	RPD%
Methylene chloride	Fg/L	3B	0.7JB	**124**
Acetone	Fg/L	4JB	3JB	29
2-Butanone	Fg/L	14	8	**54**

NOTE: B = Compound detected in associated method blank.
J = Estimated concentration below detection limit.
Results in bold indicate an exceedance of the precision requirements.

All precision requirements were met for the field duplicate analyses with the exception of methylene chloride and 2-butanone. The results for 2-butanone should be considered estimations of the true concentration in Sample MW-231A due to the lack of precision between field sample duplicates. The data user should note that the results for methylene chloride should be considered false-positive due to method blank contamination and, therefore, the precision criteria would not apply. All other analytical results are usable (see Section B.6 for discussion) as reported for Sample MW-231A based on review of the field duplicate data.

The following table shows the second set of field duplicate sample results associated with the samples from SDG EPMW231A:

Compounds	Units	MW-230A	MW-230A DUP	RPD%
Methylene Chloride	Fg/L	22B	1	**183**
1,2-Dichloroethane	Fg/L	0.7J	0.7J	0
2-Butanone	Fg/L	4J	(<5U)	**46**

NOTE: B = Compound detected in associated method blank.
J = Estimated concentration below detection limit.
U = Not detected. Sample quantitation limits are shown as (<__U)
Results in bold indicate an exceedance of the precision requirements.

All precision requirements were met for the field duplicate analyses with the exception of methylene chloride and 2-butanone. The exceedance of the RPD criteria for 2-butanone should not be considered to be significant as the concentrations are at or near the IDL where analytical error is expected. The data user should note that the results for methylene chloride should be considered false-positive due to trip blank contamination and, therefore, the precision criteria would not apply. All other analytical results are usable (see Section B.6 for discussion) as reported for Sample MW-230A based on review of the field duplicate data.

The following table shows the field duplicate sample results from the samples associated with SDG EPMW205:

Compounds	Units	MW-308	MW-308 DUP	RPD%
Methylene Chloride	Fg/L	0.7J	(<1U)	**40**
Total Xylenes	Fg/L	6	(<1U)	**169**
Ethylbenzene	Fg/L	0.9J	(<1U)	**57**
Acetone	Fg/L	2J	(<5U)	22

NOTE: J = Estimated concentration below detection limit.
U = Not detected. Sample quantitation limits are shown as (<__U).
Results in bold indicate an exceedance of the precision requirements.

The exceedance of the RPD criteria for total xylenes and ethylbenzene should not be considered to be significant as the concentrations are at or near the IDL where analytical error is expected. The data user should note that the results for methylene chloride should be considered false-positive due to trip blank contamination and, therefore, the precision criteria would not apply. All other analytical results are usable (see Section B.6 for discussion) as reported for Sample MW-308 based on review of the field duplicate data.

The following table shows the field duplicate sample results associated with the treatment plant samples from SDG EPEW1:

Compounds	Units	Combine Effluent	Combine Effluent DUP	RPD%
1,1-Dichloroethane	Fg/L	3	4	28.6
1,1,1-Trichloroethane	Fg/L	280D	320D	13.3
Methylene Chloride	Fg/L	0.8JB	0.8JB	0
Chloroform	Fg/L	0.7J	0.7J	0

NOTE: D = This flag indicates an analysis at a secondary dilution factor.
J = Estimated concentration below detection limit.
B = Compound detected in associated method blank.

All precision requirements were met for the field duplicate analyses; the results are usable as reported.

B.8 METHOD DETECTION LIMITS FOR SOLID AND AQUEOUS SAMPLES

Appendix B.1 provides the method detection limits for solid and aqueous samples. The method detection limit represents the minimum concentration of a substance that can be measured and reported with 99 percent confidence that the analyte concentration is greater than zero and is determined from analysis of a sample for a given matrix.

Appendix B.1

Method Detection Limits for Solid and Aqueous Samples

Date:4/8/99

Mat[illegible]L, METHODS 5035 / 8260B

Compound List: 8260B

Instrument: 5972-S

Katahdin Analytical Services

[illegible] Study

Dates of Analysis	Spike	Data Files
070898	5.0ug/Kg	S0182 - S0188

Analyst: DJP

Reviewed and Approved by.

S826SMDL.XLS

Date: 040899

Compound	Spike	S0182	S0183	S0184	S0185	S0186	S0187	S0188	AVG	STD DEV	MDL
1,1,1,2-TETRACHLOROETHANE	5.00	4.16	4.22	4.21	4.27	4.13	4.10	4.25	4.19	0.06	0.20
1,1,1-TRICHLOROETHANE	5.00	4.05	3.83	4.07	4.45	4.58	4.34	4.67	4.28	0.31	0.97
1,1,2,2-TETRACHLOROETHANE	5.00	9.16	9.61	9.90	9.23	7.91	8.91	8.07	8.97	0.74	2.34
1,1,2-TRICHLOROETHANE	5.00	4.75	4.91	4.79	4.94	4.92	5.03	4.86	4.89	0.09	0.30
1,1-DICHLOROETHANE	5.00	4.70	4.67	4.68	5.13	5.16	5.11	5.25	4.96	0.26	0.82
1,1-DICHLOROETHENE	5.00	4.23	4.08	4.16	4.61	4.66	4.77	4.94	4.49	0.33	1.05
1,1-DICHLOROPROPENE	5.00	4.17	4.08	4.13	4.31	4.27	4.14	4.07	4.17	0.09	0.29
1,2,3-TRICHLOROBENZENE	5.00	3.90	4.07	4.25	4.10	4.06	4.07	3.88	4.05	0.13	0.39
1,2,3-TRICHLOROPROPANE	5.00	2.59	5.98	5.85	2.78	5.41	5.34	2.83	4.40	1.57	4.95
1,2,4-TRICHLOROBENZENE	5.00	4.03	4.07	3.83	4.05	3.89	3.60	3.75	3.89	0.18	0.55
1,2,4-TRIMETHYLBENZENE	5.00	4.24	4.17	4.26	4.20	4.23	4.23	4.34	4.24	0.05	0.17
1,2-DIBROMO-3-CHLOROPROPANE	5.00	4.80	3.97	5.23	4.83	4.40	4.63	4.58	4.63	0.39	1.23
1,2-DIBROMOETHANE	5.00	4.66	5.08	5.15	4.93	4.95	4.54	4.93	4.89	0.22	0.69
1,2-DICHLOROBENZENE	5.00	4.14	4.12	4.20	4.40	4.18	4.37	4.19	4.23	0.11	0.35
1,2-DICHLOROETHANE	5.00	4.57	4.80	4.61	4.60	4.77	4.70	4.52	4.65	0.11	0.33
1,2-DICHLOROETHENE (CIS)	5.00	4.42	4.68	4.64	4.84	4.90	4.72	5.07	4.75	0.21	0.65
1,2-DICHLOROETHENE (TRANS)	5.00	4.25	4.60	4.36	4.93	4.65	4.63	5.07	4.64	0.29	0.91
1,2-DICHLOROPROPANE	5.00	4.49	4.81	4.94	4.70	5.22	4.91	4.89	4.85	0.23	0.71
1,3,5-TRICHLOROBENZENE	5.00	4.09	4.05	4.22	4.08	3.80	4.00	3.99	4.03	0.13	0.40
1,3,5-TRIMETHYLBENZENE	5.00	4.22	4.00	4.17	4.27	4.39	4.19	4.31	4.22	0.12	0.39
1,3-DICHLOROBENZENE	5.00	4.03	4.29	4.36	4.21	4.46	4.23	4.18	4.25	0.14	0.43
1,3-DICHLOROPROPANE	5.00	4.47	4.77	4.61	4.84	4.75	4.55	4.67	4.67	0.13	0.41
1,4-DICHLOROBENZENE	5.00	4.31	4.22	4.57	4.15	4.43	4.19	4.28	4.31	0.15	0.46
2,2-DICHLOROPROPANE	5.00	2.88	3.48	3.30	3.69	4.03	3.57	4.27	3.60	0.46	1.44
2-BUTANONE	5.00	7.20	6.06	7.39	10.15	7.40	9.43	8.14	7.97	1.40	4.41
2-CHLOROETHYLVINYLETHER	5.00	4.18	4.42	4.70	5.07	4.68	4.02	5.19	4.61	0.43	1.36
2-CHLOROTOLUENE	5.00	4.26	4.29	4.35	4.34	4.71	4.25	4.27	4.35	0.16	0.51
2-HEXANONE	5.00	6.10	6.73	5.67	6.16	6.37	7.04	6.13	6.31	0.45	1.42
4-CHLOROTOLUENE	5.00	4.42	4.32	4.51	4.46	4.61	4.50	4.58	4.49	0.10	0.31
4-METHYL-2-PENTANONE	5.00	7.19	7.03	7.67	6.51	8.12	6.98	6.03	7.07	0.69	2.18
ACETONE	5.00	8.01	7.51	7.88	7.96	8.26	9.73	9.62	8.42	0.88	2.78
ACROLEIN	5.00	5.04	6.53	8.26	6.81	7.16	7.45	7.81	7.01	1.05	3.29
ACRYLONITRILE	5.00	6.20	6.81	6.73	6.91	6.39	7.53	6.23	6.69	0.47	1.47
BENZENE	5.00	4.35	4.43	4.55	4.70	4.71	4.71	4.75	4.60	0.16	0.50

Date:4/8/99

Matrix: SOIL, METHODS 5035 / 8260B

Compound List: 8260B

Instrument: 5972-S

Katahdin Analytical Services
MDL Study

Dates of Analysis	Spike	Data Files
070898	5.0ug/Kg	S0182 - S0188

Analyst: DJP

Reviewed and Approved by: Date:

S826SMDL.XLS

Compound	Spike	S0182	S0183	S0184	S0185	S0186	S0187	S0188	AVG	STD DEV	MDL
BROMOBENZENE	5.00	3.94	3.83	4.04	3.99	4.29	3.74	4.14	4.00	0.19	0.58
BROMOCHLOROMETHANE	5.00	4.48	5.00	5.25	5.14	4.89	5.25	4.97	5.00	0.27	0.84
BROMODICHLOROMETHANE	5.00	4.18	4.46	4.40	4.47	4.35	4.54	4.62	4.43	0.14	0.45
BROMOFORM	5.00	3.93	4.08	4.30	4.01	3.97	3.62	3.78	3.96	0.22	0.68
BROMOMETHANE	5.00	5.24	5.67	5.90	5.27	5.95	6.94	5.53	5.79	0.58	1.82
CARBON DISULFIDE	5.00	4.49	4.62	4.61	5.06	4.91	4.88	5.18	4.82	0.26	0.80
CARBON TETRACHLORIDE	5.00	3.91	3.74	3.93	4.00	4.13	3.96	4.15	3.97	0.14	0.44
CHLOROBENZENE	5.00	4.28	4.13	4.22	4.38	4.47	4.16	4.51	4.31	0.15	0.47
CHLOROETHANE	5.00	4.72	4.58	5.09	4.98	4.93	5.00	5.34	4.95	0.25	0.78
CHLOROFORM	5.00	4.97	4.96	5.18	5.46	5.34	5.45	5.68	5.29	0.27	0.84
CHLOROMETHANE	5.00	5.09	5.38	5.40	5.94	5.83	5.86	6.17	5.67	0.38	1.20
CIS-1,3-DICHLOROPROPENE	5.00	4.49	4.33	4.65	4.46	4.48	4.68	4.48	4.51	0.12	0.38
DIBROMOCHLOROMETHANE	5.00	4.12	4.24	4.14	4.11	4.24	4.18	3.98	4.14	0.09	0.28
DIBROMOMETHANE	5.00	4.47	4.70	4.98	4.91	4.99	4.93	4.76	4.82	0.19	0.60
DICHLORODIFLUOROMETHANE	5.00	4.21	4.16	4.10	4.65	4.75	4.54	4.77	4.45	0.29	0.91
DIETHYL ETHER	5.00	5.14	5.42	6.02	5.48	5.50	5.48	5.35	5.48	0.27	0.84
ETHYLBENZENE	5.00	4.15	4.23	4.09	4.44	4.31	4.19	4.46	4.27	0.14	0.45
FREON-113	5.00	3.68	4.02	4.12	4.32	4.14	4.14	4.18	4.09	0.20	0.63
HEXACHLOROBUTADIENE	5.00	3.81	3.93	3.64	3.66	3.69	3.52	3.85	3.73	0.14	0.44
ISOPROPYLBENZENE	5.00	3.98	3.82	3.91	4.00	4.28	3.97	4.11	4.01	0.15	0.47
M+P-XYLENE	5.00	8.10	7.80	7.73	8.63	8.66	8.42	8.61	8.28	0.40	1.26
METHYLENE CHLORIDE	5.00	12.99	13.94	11.59	13.88	13.34	14.50	13.44	13.38	0.93	2.92
MTBE	5.00	5.09	5.05	5.35	5.40	5.30	5.30	5.34	5.26	0.14	0.43
N-BUTYLBENZENE	5.00	4.12	3.94	3.99	4.09	4.23	4.23	4.50	4.16	0.19	0.59
N-PROPYLBENZENE	5.00	4.84	4.77	4.90	4.86	5.23	4.86	2.50	4.57	0.92	2.90
NAPHTHALENE	5.00	3.62	4.08	4.08	4.07	4.12	4.11	3.92	4.00	0.18	0.57
O-XYLENE	5.00	4.03	3.83	3.92	4.39	4.07	4.20	4.03	4.07	0.18	0.58
P-ISOPROPYLTOLUENE	5.00	4.03	3.76	3.94	3.93	4.11	4.13	4.22	4.02	0.15	0.48
SEC-BUTYLBENZENE	5.00	3.99	3.95	4.01	4.16	4.33	4.21	4.21	4.12	0.14	0.44
STYRENE	5.00	3.84	4.14	4.12	4.44	4.45	4.18	4.33	4.21	0.21	0.67
TERT-BUTYLBENZENE	5.00	4.04	3.93	4.01	4.25	4.22	4.05	4.28	4.11	0.14	0.43
TETRACHLOROETHENE	5.00	3.55	3.53	3.60	3.90	3.71	3.59	3.84	3.67	0.15	0.46
TETRAHYDROFURAN	5.00	7.83	8.37	6.92	[illegible]	8.20	7.98	8.85	8.04	0.59	1.88
TOLUE[illegible]	5.00	4.64	4.49	4.52	[illegible]	4.72	4.78	5.16	4.74	0.23	0.72

Date:4/6/99

Ma[illegible]OIL, METHODS 5035 / 8260B

Compound List: 8260B

Instrument: 5972-S

[illegible]tahdin Analytical Services
[illegible]L Study

Dates of Analysis	Spike	Data Files
070898	5.0ug/Kg	S0182 - S0188

Analyst: DJP

Reviewed and Approved by:

Date:

S826SMDL.XLS

Compound	Spike	S0182	S0183	S0184	S0185	S0186	S0187	S0188	AVG	STD DEV	MDL
TRANS-1,3-DICHLOROPROPENE	5.00	4.46	4.46	4.73	4.70	5.08	4.63	4.61	4.67	0.21	0.66
TRICHLOROETHENE	5.00	4.09	4.31	4.23	4.40	4.41	4.46	4.40	4.33	0.13	0.41
TRICHLOROFLUOROMETHANE	5.00	4.10	4.39	4.29	4.79	4.59	4.69	5.02	4.55	0.31	0.99
VINYL ACETATE	5.00	5.79	5.51	4.87	4.50	5.22	5.01	3.97	4.98	0.61	1.93
VINYL CHLORIDE	5.00	4.35	4.96	4.38	5.01	5.00	5.07	5.11	4.84	0.33	1.03

Date: 2/11/99 7:42:49 AM

Matrix:Aqueous

Compound List: 8260B

Instrument: 5972-S

Katahdin Analytical Services
MDL Study

Dates of Analysis	Spike	Data Files
2/10/99	0.5ug/ml	S3424-S3440
	5.0ug/ml	S3432-S3438

Analyst DJP

Reviewed and Approved by: JB Date: 021799

S8260FIN.XLS

Compound	Spike	S3424	S3425	S3426	S3427	S3428	S3431	S3440	AVG	STD DEV	MDL
1,1,1,2-TETRACHLOROETHANE	0.50	0.30	0.46	0.45	0.46	0.39	0.37	0.31	0.39	0.07	0.22
1,1,1-TRICHLOROETHANE	0.50	0.37	0.50	0.55	0.57	0.36	0.38	0.53	0.47	0.09	0.29
1,1,2,2-TETRACHLOROETHANE	0.50	0.40	0.47	0.48	0.50	0.42	0.34	0.37	0.43	0.06	0.19
1,1,2-TRICHLOROETHANE	0.50	0.49	0.44	0.40	0.42	0.46	0.31	0.38	0.41	0.06	0.18
1,1-DICHLOROETHANE	0.50	0.42	0.58	0.55	0.56	0.43	0.52	0.51	0.51	0.06	0.20
1,1-DICHLOROETHENE	0.50	0.19	0.58	0.56	0.41	0.37	0.35	0.46	0.42	0.13	0.42
1,1-DICHLOROPROPENE	0.50	0.39	0.51	0.51	0.54	0.35	0.44	0.41	0.45	0.07	0.22
1,2,3-TRICHLOROBENZENE	0.50	0.54	0.37	0.49	0.46	0.22	0.32	0.38	0.40	0.11	0.34
1,2,3-TRICHLOROPROPANE	0.50	0.37	0.36	0.33	0.37	0.32	0.21	0.26	0.32	0.06	0.19
1,2,4-TRICHLOROBENZENE	0.50	0.49	0.41	0.43	0.46	0.38	0.24	0.47	0.41	0.08	0.27
1,2,4-TRIMETHYLBENZENE	0.50	0.45	0.55	0.55	0.44	0.44	0.41	0.41	0.46	0.06	0.19
1,2-DIBROMO-3-CHLOROPROPANE	5.00	2.57	3.70	3.48	3.28	4.39	4.05	3.57	3.58	0.58	1.82
1,2-DIBROMOETHANE	0.50	0.38	0.40	0.38	0.48	0.42	0.33	0.35	0.39	0.05	0.15
1,2-DICHLOROBENZENE	0.50	0.43	0.56	0.48	0.54	0.41	0.45	0.42	0.47	0.06	0.19
1,2-DICHLOROETHANE	0.50	0.72	0.75	0.68	0.89	0.71	0.72	0.75	0.75	0.07	0.21
1,2-DICHLOROETHENE (CIS)	0.50	0.51	0.54	0.49	0.48	0.47	0.49	0.46	0.49	0.03	0.08
1,2-DICHLOROETHENE (TRANS)	0.50	0.43	0.53	0.55	0.58	0.45	0.41	0.50	0.49	0.06	0.20
1,2-DICHLOROPROPANE	0.50	0.42	0.51	0.42	0.53	0.45	0.46	0.44	0.46	0.04	0.14
1,3,5-TRICHLOROBENZENE	0.50	0.34	0.36	0.31	0.43	0.17	0.31	0.18	0.30	0.09	0.30
1,3,5-TRIMETHYLBENZENE	0.50	0.40	0.52	0.45	0.44	0.45	0.37	0.39	0.43	0.05	0.16
1,3-DICHLOROBENZENE	0.50	0.41	0.52	0.48	0.55	0.41	0.47	0.48	0.47	0.05	0.16
1,3-DICHLOROPROPANE	0.50	0.41	0.50	0.59	0.54	0.51	0.40	0.37	0.47	0.08	0.26
1,4-DICHLOROBENZENE	0.50	0.47	0.64	0.57	0.60	0.53	0.47	0.54	0.55	0.06	0.20
2,2-DICHLOROPROPANE	0.50	0.38	0.58	0.55	0.47	0.40	0.46	0.38	0.46	0.08	0.25
2-BUTANONE	5.00	3.62	3.67	3.88	3.77	3.86	3.80	3.76	3.77	0.09	0.30
2-CHLOROETHYLVINYLETHER	5.00	2.66	2.77	3.11	2.85	2.79	3.10	3.05	2.90	0.18	0.57
2-CHLOROTOLUENE	0.50	0.45	0.59	0.53	0.50	0.44	0.42	0.41	0.48	0.07	0.21
2-HEXANONE	5.00	2.82	3.35	3.09	3.11	3.50	3.41	3.65	3.28	0.28	0.89
4-CHLOROTOLUENE	0.50	0.43	0.52	0.50	0.48	0.41	0.41	0.44	0.46	0.04	0.14
4-METHYL-2-PENTANONE	5.00	3.55	3.78	3.90	3.73	4.01	3.96	4.06	3.86	0.18	0.56
ACETONE	5.00	5.54	5.52	6.05	5.50	6.27	5.88	6.23	5.86	0.34	1.07
ACROLEIN	5.00	5.60	4.85	5.69	6.29	5.66	5.29	5.75	5.59	0.44	1.39
ACRYLONITRILE	5.00	3.70	3.68	4.11	3.91	4.16	4.15	3.78	3.92	0.22	0.68
BENZENE	0.50	0.48	0.56	0.56	0.56	0.50	0.49	0.49	0.52	0.04	0.12

Date: 2/11/99 7:42:49 AM

Matrix: Aqueous

Compound List 8260B

Instrument: 5972-S

Katahdin Analytical Services
MDL Study

Dates of Analysis	Spike	Data Files
2/10/99	0.5ug/ml	S3424-S3440
	5.0ug/ml	S3432-S3438

Analyst: DJP

Reviewed and Approved by: JB Date: 021799

S8260FIN.XLS

Compound	Spike	S3424	S3425	S3426	S3427	S3428	S3431	S3440	AVG	STD DEV	MDL
BROMOBENZENE	0.50	0.29	0.59	0.37	0.42	0.41	0.36	0.36	0.40	0.09	0.29
BROMOCHLOROMETHANE	0.50	0.25	0.41	0.32	0.45	0.40	0.31	0.14	0.33	0.11	0.34
BROMODICHLOROMETHANE	0.50	0.38	0.47	0.44	0.53	0.47	0.46	0.57	0.47	0.06	0.19
BROMOFORM	0.50	0.30	0.32	0.18	0.36	0.13	0.14	0.26	0.24	0.09	0.29
BROMOMETHANE	0.50	0.61	0.62	0.55	0.58	0.60	0.79	0.62	0.62	0.08	0.24
CARBON DISULFIDE	0.50	0.44	0.65	0.60	0.60	0.47	0.50	0.47	0.53	0.08	0.26
CARBON TETRACHLORIDE	0.50	0.30	0.46	0.36	0.44	0.15	0.35	0.40	0.35	0.10	0.33
CHLOROBENZENE	0.50	0.44	0.55	0.55	0.56	0.45	0.44	0.50	0.50	0.06	0.17
CHLOROETHANE	0.50	0.35	0.44	0.35	0.50	0.38	0.29	0.14	0.35	0.11	0.36
CHLOROFORM	0.50	0.61	0.70	0.80	0.80	0.72	0.68	0.70	0.72	0.07	0.21
CHLOROMETHANE	0.50	0.32	0.52	0.44	0.52	0.45	0.43	0.43	0.44	0.07	0.21
CIS-1,3-DICHLOROPROPENE	0.50	0.49	0.44	0.52	0.52	0.51	0.44	0.41	0.48	0.05	0.14
DIBROMOCHLOROMETHANE	0.50	0.33	0.38	0.40	0.43	0.32	0.29	0.37	0.36	0.05	0.15
DIBROMOMETHANE	0.50	0.44	0.33	0.45	0.55	0.36	0.24	0.46	0.40	0.10	0.32
DICHLORODIFLUOROMETHANE	0.50	0.28	0.44	0.31	0.38	0.29	0.29	0.30	0.33	0.06	0.19
DIETHYL ETHER	0.50	0.43	0.43	0.44	0.58	0.46	0.39	0.27	0.43	0.09	0.29
ETHYLBENZENE	0.50	0.39	0.54	0.51	0.52	0.46	0.43	0.48	0.48	0.05	0.17
FREON-113	0.50	0.24	0.42	0.32	0.27	0.23	0.11	0.13	0.25	0.11	0.34
HEXACHLOROBUTADIENE	5.00	3.59	3.69	4.11	4.20	4.18	3.87	4.28	3.99	0.27	0.85
ISOPROPYLBENZENE	0.50	0.38	0.54	0.50	0.51	0.40	0.38	0.39	0.44	0.07	0.22
M+P-XYLENE	1.00	0.87	1.03	0.99	1.00	0.82	0.82	0.78	0.90	0.10	0.32
METHYLENE CHLORIDE	0.50	1.17	1.27	1.17	1.17	1.31	1.31	1.53	1.28	0.13	0.41
MTBE	0.50	0.49	0.46	0.49	0.58	0.48	0.44	0.47	0.49	0.04	0.14
N-BUTYLBENZENE	0.50	0.39	0.48	0.49	0.44	0.34	0.39	0.36	0.41	0.06	0.18
N-PROPYLBENZENE	0.50	0.42	0.53	0.53	0.52	0.40	0.43	0.43	0.47	0.06	0.18
NAPHTHALENE	0.50	0.53	0.48	0.52	0.53	0.42	0.40	0.45	0.48	0.05	0.17
O-XYLENE	0.50	0.39	0.53	0.49	0.47	0.38	0.36	0.39	0.43	0.07	0.21
P-ISOPROPYLTOLUENE	0.50	0.33	0.48	0.50	0.39	0.35	0.32	0.28	0.38	0.08	0.26
SEC-BUTYLBENZENE	0.50	0.39	0.57	0.51	0.48	0.35	0.40	0.39	0.44	0.08	0.25
STYRENE	0.50	0.37	0.42	0.42	0.42	0.38	0.39	0.38	0.40	0.02	0.07
TERT-BUTYLBENZENE	0.50	0.39	0.50	0.52	0.44	0.34	0.36	0.36	0.42	0.07	0.23
TETRACHLOROETHENE	0.50	0.31	0.43	0.57	0.51	0.24	0.34	0.43	0.40	0.12	0.36
TETRAHYDROFURAN	5.00	3.59	3.69	4.11	4.20	4.18	3.87	4.28	3.99	0.27	0.85
TOLUENE	0.50	0.44	0.56	0.58	0.55	0.45	0.49	0.49	0.51	0.06	0.17

Date: 2/11/99 7:42:49 AM

Matrix:Aqueous

Compound List: 8260B

Instrument: 5972-S

Katahdin Analytical Services
MDL Study

Dates of Analysis	Spike	Data Files
2/10/99	0.5ug/ml	S3424-S3440
	5.0ug/ml	S3432-S3438

Analyst: DJP

Reviewed and Approved by: JB Date: 021799

S8260FIN.XLS

Compound	Spike	S3424	S3425	S3426	S3427	S3428	S3431	S3440	AVG	STD DEV	MDL
TRANS-1,3-DICHLOROPROPENE	5.00	4.53	4.65	4.59	4.99	4.83	5.03	4.81	4.78	0.19	0.61
TRICHLOROETHENE	0.50	0.40	0.50	0.47	0.47	0.48	0.50	0.47	0.47	0.03	0.11
TRICHLOROFLUOROMETHANE	0.50	0.20	0.42	0.39	0.44	0.24	0.27	0.30	0.32	0.09	0.30
VINYL ACETATE	0.50	0.50	0.49	0.57	0.61	0.52	0.42	0.41	0.50	0.07	0.23
VINYL CHLORIDE	0.50	0.23	0.52	0.51	0.44	0.28	0.33	0.35	0.38	0.11	0.35

METALS MDL SUMMARY REPORT

INSTRUMENT ID: *A* *TJA TRACE ICP* *METHOD: 6010*

ELEMENT: *Ag* *(mg/L)*

FILE	DATE	DIGEST	REP1	REP2	REP3	REP4	REP5	REP6	REP7	REP8	REP9	REP10	TV	AVG	% REC	STDEV	MDL	
APA28A	01/28/1999	MDLAQA01R	0.00292	0.00286	0.00273	0.00267	0.00274	0.00315	0.00263	0.00330	0.00251	0.00216	0.003	0.00277	92.2%	0.00032	0.00091	OK

ELEMENT: *Al* *(mg/L)*

FILE	DATE	DIGEST	REP1	REP2	REP3	REP4	REP5	REP6	REP7	REP8	REP9	REP10	TV	AVG	% REC	STDEV	MDL	
APA12A	01/12/1999	MDLAQA01	0.01130	0.02263	0.02448	0.01887	0.02140	0.02490	0.04081	0.03063	0.03147	0.03793	0.04	0.02644	66.1%	0.00891	0.02513	OK

ELEMENT: *As* *(mg/L)*

FILE	DATE	DIGEST	REP1	REP2	REP3	REP4	REP5	REP6	REP7	REP8	REP9	REP10	TV	AVG	% REC	STDEV	MDL	
APA28A	01/28/1999	MDLAQA01R	0.00482	0.00562	0.00444	0.00622	0.00529	0.00477	0.00596	0.00432	0.00553	0.00581	0.006	0.00528	88.0%	0.00066	0.00186	OK

ELEMENT: *B* *(mg/L)*

FILE	DATE	DIGEST	REP1	REP2	REP3	REP4	REP5	REP6	REP7	REP8	REP9	REP10	TV	AVG	% REC	STDEV	MDL	
APA28A	01/28/1999	MDLAQA01R	0.08197	0.10596	0.10762	0.14125	0.16091	0.01417	0.00797	0.00842	0.01067	0.00683	0.004	0.06458	1614.4%	0.06161	0.17381	TOO LOW

ELEMENT: *Ba* *(mg/L)*

FILE	DATE	DIGEST	REP1	REP2	REP3	REP4	REP5	REP6	REP7	REP8	REP9	REP10	TV	AVG	% REC	STDEV	MDL	
APA12A	01/12/1999	MDLAQA01	0.00049	0.00056	0.00042	0.00054	0.00051	0.00037	0.00058	0.00047	0.00049	0.00049	0.0004	0.00049	123.0%	0.00006	0.00018	OK

ELEMENT: *Be* *(mg/L)*

FILE	DATE	DIGEST	REP1	REP2	REP3	REP4	REP5	REP6	REP7	REP8	REP9	REP10	TV	AVG	% REC	STDEV	MDL	
APA12A	01/12/1999	MDLAQA01	0.00051	0.00056	0.00080	0.00052	0.00050	0.00047	0.00055	0.00046	0.00036	0.00039	0.0004	0.00051	128.0%	0.00012	0.00034	OK

ELEMENT: *Ca* *(mg/L)*

FILE	DATE	DIGEST	REP1	REP2	REP3	REP4	REP5	REP6	REP7	REP8	REP9	REP10	TV	AVG	% REC	STDEV	MDL	
APA12A	01/12/1999	MDLAQA01	0.00830	0.00732	-0.00535	0.00758	0.00467	-0.00077	0.01248	-0.00051	-0.00263	-0.00123	0.02	0.00299	14.9%	0.00583	0.01646	OK

ELEMENT: *Cd* *(mg/L)*

FILE	DATE	DIGEST	REP1	REP2	REP3	REP4	REP5	REP6	REP7	REP8	REP9	REP10	TV	AVG	% REC	STDEV	MDL	
APA28A	01/28/1999	MDLAQA01R	0.00060	0.00089	0.00053	0.00048	0.00076	0.00075	0.00055	0.00063	0.00067	0.00079	0.0006	0.00066	110.8%	0.00013	0.00037	OK

ELEMENT: *Co* *(mg/L)*

FILE	DATE	DIGEST	REP1	REP2	REP3	REP4	REP5	REP6	REP7	REP8	REP9	REP10	TV	AVG	% REC	STDEV	MDL	
APA12A	01/12/1999	MDLAQA01	0.00058	0.00088	0.00078	0.00049	0.00101	0.00073	0.00089	0.00101	0.00083	0.00113	0.002	0.00083	41.6%	0.00020	0.00056	OK

METALS MDL SUMMARY REPORT

INSTRUMENT ID: *A* *TJA TRACE ICP* *METHOD: 6010*

ELEMENT: *Cr* *(mg/L)*

FILE	DATE	DIGEST	REP1	REP2	REP3	REP4	REP5	REP6	REP7	REP8	REP9	REP10	TV	AVG	% REC	STDEV	MDL	
APA12A	01/12/1999	MDLAQA01	0.00216	0.00233	0.00235	0.00218	0.00227	0.00216	0.00232	0.00239	0.00201	0.00237	0.002	0.00225	112.7%	0.00012	0.00034	Too High

ELEMENT: *Cu* *(mg/L)*

FILE	DATE	DIGEST	REP1	REP2	REP3	REP4	REP5	REP6	REP7	REP8	REP9	REP10	TV	AVG	% REC	STDEV	MDL	
APA12A	01/12/1999	MDLAQA01	0.00077	0.00075	0.00019	0.00049	0.00043	0.00056	0.00050	0.00038	0.00026	0.00049	0.002	0.00048	24.1%	0.00019	0.00052	OK

ELEMENT: *Fe* *(mg/L)*

FILE	DATE	DIGEST	REP1	REP2	REP3	REP4	REP5	REP6	REP7	REP8	REP9	REP10	TV	AVG	% REC	STDEV	MDL	
APA12A	01/12/1999	MDLAQA01	0.03789	0.05189	0.04539	0.05112	0.05462	0.04866	0.05258	0.05602	0.05340	0.04840	0.03	0.05000	166.7%	0.00530	0.01495	OK

ELEMENT: *Mg* *(mg/L)*

FILE	DATE	DIGEST	REP1	REP2	REP3	REP4	REP5	REP6	REP7	REP8	REP9	REP10	TV	AVG	% REC	STDEV	MDL	
APA12A	01/12/1999	MDLAQA01	0.02074	0.02176	0.01852	0.01874	0.02067	0.01887	0.01928	0.01926	0.01866	0.02290	0.02	0.01994	99.7%	0.00150	0.00425	OK

ELEMENT: *Mn* *(mg/L)*

FILE	DATE	DIGEST	REP1	REP2	REP3	REP4	REP5	REP6	REP7	REP8	REP9	REP10	TV	AVG	% REC	STDEV	MDL	
APA12A	01/12/1999	MDLAQA01	0.00069	0.00070	0.00062	0.00070	0.00078	0.00080	0.00088	0.00076	0.00058	0.00067	0.0004	0.00073	182.0%	0.00008	0.00022	OK

ELEMENT: *Mo* *(mg/L)*

FILE	DATE	DIGEST	REP1	REP2	REP3	REP4	REP5	REP6	REP7	REP8	REP9	REP10	TV	AVG	% REC	STDEV	MDL	
APA12A	01/12/1999	MDLAQA01	0.00354	0.00259	0.00281	0.00293	0.00279	0.00306	0.00330	0.00303	0.00299	0.00273	0.003	0.00298	99.2%	0.00028	0.00079	OK

ELEMENT: *Ni* *(mg/L)*

FILE	DATE	DIGEST	REP1	REP2	REP3	REP4	REP5	REP6	REP7	REP8	REP9	REP10	TV	AVG	% REC	STDEV	MDL	
APA12A	01/12/1999	MDLAQA01	0.00269	0.00194	0.00154	0.00227	0.00188	0.00124	0.00241	0.00210	0.00212	0.00247	0.002	0.00207	103.3%	0.00044	0.00124	OK

ELEMENT: *Pb* *(mg/L)*

FILE	DATE	DIGEST	REP1	REP2	REP3	REP4	REP5	REP6	REP7	REP8	REP9	REP10	TV	AVG	% REC	STDEV	MDL	
APA12A	01/12/1999	MDLAQA01	0.00691	0.00678	0.00729	0.00670	0.00714	0.00723	0.00708	0.01085	0.00657	0.00702	0.004	0.00736	183.9%	0.00125	0.00352	OK

ELEMENT: *Sb* *(mg/L)*

FILE	DATE	DIGEST	REP1	REP2	REP3	REP4	REP5	REP6	REP7	REP8	REP9	REP10	TV	AVG	% REC	STDEV	MDL	
APA12A	01/12/1999	MDLAQA01	0.00670	0.00660	0.00504	0.00536	0.00599	0.00658	0.00735	0.00709	0.00547	0.00645	0.006	0.00626	104.4%	0.00077	0.00217	OK

METALS MDL SUMMARY REPORT

INSTRUMENT ID: *A* *TJA TRACE ICP* *METHOD: 6010*

ELEMENT: *Se* *(mg/L)*

FILE	DATE	DIGEST	REP1	REP2	REP3	REP4	REP5	REP6	REP7	REP8	REP9	REP10	TV	AVG	% REC	STDEV	MDL	
APA12A	01/12/1999	MDLAQA01	0.00759	0.00606	0.00457	0.00425	0.00613	0.00489	0.00597	0.00491	0.00566	0.00677	0.008	0.00568	71.0%	0.00104	0.00294	OK

ELEMENT: *Sn* *(mg/L)*

FILE	DATE	DIGEST	REP1	REP2	REP3	REP4	REP5	REP6	REP7	REP8	REP9	REP10	TV	AVG	% REC	STDEV	MDL	
APA12A	01/12/1999	MDLAQA01	0.00591	0.00680	0.00416	0.00489	0.00546	0.00437	0.00249	0.00348	0.00479	0.00328	0.006	0.00456	76.1%	0.00130	0.00365	OK

ELEMENT: *Sr* *(mg/L)*

FILE	DATE	DIGEST	REP1	REP2	REP3	REP4	REP5	REP6	REP7	REP8	REP9	REP10	TV	AVG	% REC	STDEV	MDL	
APA12A	01/12/1999	MDLAQA01	0.00017	0.00017	0.00014	0.00017	0.00014	0.00013	0.00018	0.00016	0.00014	0.00016	0.0001	0.00016	156.0%	0.00002	0.00005	OK

ELEMENT: *Ti* *(mg/L)*

FILE	DATE	DIGEST	REP1	REP2	REP3	REP4	REP5	REP6	REP7	REP8	REP9	REP10	TV	AVG	% REC	STDEV	MDL	
APA12A	01/12/1999	MDLAQA01	0.00029	0.00046	0.00043	0.00048	0.00041	0.00032	0.00040	0.00029	0.00054	0.00057	0.001	0.00042	42.1%	0.00010	0.00028	OK

ELEMENT: *Tl* *(mg/L)*

FILE	DATE	DIGEST	REP1	REP2	REP3	REP4	REP5	REP6	REP7	REP8	REP9	REP10	TV	AVG	% REC	STDEV	MDL	
APA12A	01/12/1999	MDLAQA01	0.00327	0.00169	0.00182	0.00028	0.00209	0.00167	0.00218	0.00207	0.00228	0.00200	0.01	0.00193	19.3%	0.00074	0.00208	OK

ELEMENT: *V* *(mg/L)*

FILE	DATE	DIGEST	REP1	REP2	REP3	REP4	REP5	REP6	REP7	REP8	REP9	REP10	TV	AVG	% REC	STDEV	MDL	
APA28A	01/28/1999	MDLAQA01R	0.00191	0.00197	0.00193	0.00190	0.00219	0.00165	0.00166	0.00176	0.00212	0.00183	0.002	0.00189	94.6%	0.00018	0.00050	OK

ELEMENT: *Zn* *(mg/L)*

FILE	DATE	DIGEST	REP1	REP2	REP3	REP4	REP5	REP6	REP7	REP8	REP9	REP10	TV	AVG	% REC	STDEV	MDL	
APA12A	01/12/1999	MDLAQA01	0.00200	0.00128	0.00352	0.00310	0.00323	0.00123	0.00185	0.00150	0.00153	0.00165	0.001	0.00209	208.9%	0.00086	0.00243	TOO LOW

METALS MDL SUMMARY REPORT

INSTRUMENT ID: *B* *TJA 61 ICP* *METHOD: 6010*

ELEMENT: *Ag* *(mg/L)*

FILE	DATE	DIGEST	REP1	REP2	REP3	REP4	REP5	REP6	REP7	REP8	REP9	REP10	TV	AVG	% REC	STDEV	MDL	
BPA18A	01/18/1999	MDLAQB01	0.00146	0.00051	0.00004	0.00098	0.00052	-0.00042	0.00053	0.00147	-0.00043	0.00099	0.009	0.00056	6.3%	0.00068	0.00193	OK

ELEMENT: *Al* *(mg/L)*

FILE	DATE	DIGEST	REP1	REP2	REP3	REP4	REP5	REP6	REP7	REP8	REP9	REP10	TV	AVG	% REC	STDEV	MDL	
BPA20A	01/20/1999	MDLAQB01	0.01633	0.05685	0.06152	0.05987	0.06072	0.05930	0.05897	0.05834	0.05462	0.06592	0.05	0.05994	119.9%	0.00428	0.01207	OK

ELEMENT: *As* *(mg/L)*

FILE	DATE	DIGEST	REP1	REP2	REP3	REP4	REP5	REP6	REP7	REP8	REP9	REP10	TV	AVG	% REC	STDEV	MDL	
BPA18A	01/18/1999	MDLAQB01	0.04267	0.04703	0.03154	0.03698	0.04563	0.03883	0.04625	0.03339	0.05241	0.03915	0.05	0.04030	80.6%	0.00657	0.01853	OK

ELEMENT: *B* *(mg/L)*

FILE	DATE	DIGEST	REP1	REP2	REP3	REP4	REP5	REP6	REP7	REP8	REP9	REP10	TV	AVG	% REC	STDEV	MDL	
BPA18A	01/18/1999	MDLAQB01	0.03244	0.03336	0.04111	0.02903	0.02501	0.03209	0.03754	0.02582	0.02671	0.03266	0.02	0.03157	157.8%	0.00514	0.01451	OK

ELEMENT: *Ba* *(mg/L)*

FILE	DATE	DIGEST	REP1	REP2	REP3	REP4	REP5	REP6	REP7	REP8	REP9	REP10	TV	AVG	% REC	STDEV	MDL	
BPA18A	01/18/1999	MDLAQB01	0.00199	0.00157	0.00164	0.00178	0.00165	0.00158	0.00188	0.00164	0.00129	0.00150	0.0015	0.00165	110.1%	0.00020	0.00056	OK

ELEMENT: *Be* *(mg/L)*

FILE	DATE	DIGEST	REP1	REP2	REP3	REP4	REP5	REP6	REP7	REP8	REP9	REP10	TV	AVG	% REC	STDEV	MDL	
BPA18A	01/18/1999	MDLAQB01	0.00124	0.00094	0.00096	0.00133	0.00124	0.00111	0.00111	0.00124	0.00095	0.00109	0.001	0.00111	111.1%	0.00013	0.00035	OK

ELEMENT: *Ca* *(mg/L)*

FILE	DATE	DIGEST	REP1	REP2	REP3	REP4	REP5	REP6	REP7	REP8	REP9	REP10	TV	AVG	% REC	STDEV	MDL	
BPA18A	01/18/1999	MDLAQB01	0.05614	0.04206	0.07946	0.07193	0.05893	0.04046	0.05249	0.06103	0.03900	0.05444	0.05	0.05559	111.2%	0.01323	0.03733	OK

ELEMENT: *Cd* *(mg/L)*

FILE	DATE	DIGEST	REP1	REP2	REP3	REP4	REP5	REP6	REP7	REP8	REP9	REP10	TV	AVG	% REC	STDEV	MDL	
BPA18A	01/18/1999	MDLAQB01	0.00616	0.00401	0.00518	0.00540	0.00513	0.00518	0.00388	0.00600	0.00482	0.00569	0.005	0.00514	102.9%	0.00075	0.00213	OK

ELEMENT: *Co* *(mg/L)*

FILE	DATE	DIGEST	REP1	REP2	REP3	REP4	REP5	REP6	REP7	REP8	REP9	REP10	TV	AVG	% REC	STDEV	MDL	
BPA18A	01/18/1999	MDLAQB01	0.01076	0.00991	0.00991	0.00988	0.01009	0.00943	0.00804	0.00938	0.00851	0.01113	0.01	0.00970	97.0%	0.00093	0.00261	OK

METALS MDL SUMMARY REPORT

INSTRUMENT ID: *B TJA 61 ICP* *METHOD: 6010*

ELEMENT: *Cr (mg/L)*

FILE	DATE	DIGEST	REP1	REP2	REP3	REP4	REP5	REP6	REP7	REP8	REP9	REP10	TV	AVG	% REC	STDEV	MDL	
BPA20A	01/20/1999	MDLAQB01	0.01072	0.01167	0.01066	0.00810	0.01233	0.01264	0.01245	0.00989	0.01164	0.00798	0.01	0.01081	108.1%	0.00170	0.00480	OK

ELEMENT: *Cu (mg/L)*

FILE	DATE	DIGEST	REP1	REP2	REP3	REP4	REP5	REP6	REP7	REP8	REP9	REP10	TV	AVG	% REC	STDEV	MDL	
BPA20A	01/20/1999	MDLAQB01	0.00444	0.00421	0.00386	0.00370	0.00382	0.00428	0.00284	0.00316	0.00315	0.00254	0.005	0.00360	72.0%	0.00065	0.00182	OK

ELEMENT: *Fe (mg/L)*

FILE	DATE	DIGEST	REP1	REP2	REP3	REP4	REP5	REP6	REP7	REP8	REP9	REP10	TV	AVG	% REC	STDEV	MDL	
BPA20A	01/20/1999	MDLAQB01	0.08410	0.06129	0.08856	0.06498	0.06465	0.07501	0.05943	0.06594	0.05920	0.06001	0.015	0.06832	455.4%	0.01062	0.02995	TOO LOW

ELEMENT: *K (mg/L)*

FILE	DATE	DIGEST	REP1	REP2	REP3	REP4	REP5	REP6	REP7	REP8	REP9	REP10	TV	AVG	% REC	STDEV	MDL	
BPA18A	01/18/1999	MDLAQB01	0.62368	0.62742	0.71847	0.75544	0.95415	0.65780	0.82003	0.79465	0.90771	0.79323	1	0.76526	76.5%	0.11230	0.31679	OK

ELEMENT: *Mg (mg/L)*

FILE	DATE	DIGEST	REP1	REP2	REP3	REP4	REP5	REP6	REP7	REP8	REP9	REP10	TV	AVG	% REC	STDEV	MDL	
BPA20A	01/20/1999	MDLAQB01	0.05042	0.05726	0.06143	0.05738	0.06045	0.06527	0.05227	0.05024	0.05836	0.04751	0.05	0.05606	112.1%	0.00572	0.01614	OK

ELEMENT: *Mn (mg/L)*

FILE	DATE	DIGEST	REP1	REP2	REP3	REP4	REP5	REP6	REP7	REP8	REP9	REP10	TV	AVG	% REC	STDEV	MDL	
BPA18A	01/18/1999	MDLAQB01	0.00255	0.00219	0.00256	0.00146	0.00221	0.00222	0.00149	0.00220	0.00221	0.00220	0.002	0.00213	106.4%	0.00037	0.00105	OK

ELEMENT: *Na (mg/L)*

FILE	DATE	DIGEST	REP1	REP2	REP3	REP4	REP5	REP6	REP7	REP8	REP9	REP10	TV	AVG	% REC	STDEV	MDL	
BPA18A	01/18/1999	MDLAQB01	0.10486	0.08721	0.10661	0.10094	0.10292	0.09447	0.09895	0.10426	0.08354	0.09693	0.05	0.09807	196.1%	0.00770	0.02171	OK

ELEMENT: *Ni (mg/L)*

FILE	DATE	DIGEST	REP1	REP2	REP3	REP4	REP5	REP6	REP7	REP8	REP9	REP10	TV	AVG	% REC	STDEV	MDL	
BPA18A	01/18/1999	MDLAQB01	0.01908	0.01684	0.02816	0.02511	0.01717	0.01941	0.01758	0.02226	0.02973	0.01978	0.02	0.02149	107.5%	0.00467	0.01318	OK

ELEMENT: *Pb (mg/L)*

FILE	DATE	DIGEST	REP1	REP2	REP3	REP4	REP5	REP6	REP7	REP8	REP9	REP10	TV	AVG	% REC	STDEV	MDL	
BPA18A	01/18/1999	MDLAQB01	0.03335	0.04253	0.05620	0.04065	0.05564	0.04024	0.04704	0.04549	0.04648	0.04913	0.05	0.04568	91.4%	0.00700	0.01975	OK

METALS MDL SUMMARY REPORT

INSTRUMENT ID: *B* *TJA 61 ICP* *METHOD: 6010*

ELEMENT: *Sb* *(mg/L)*

FILE	DATE	DIGEST	REP1	REP2	REP3	REP4	REP5	REP6	REP7	REP8	REP9	REP10	TV	AVG	% REC	STDEV	MDL	
BPA18A	01/18/1999	MDLAQB01	0.01289	0.02042	0.02048	0.01396	0.02271	0.02274	0.02293	0.02271	0.02275	0.02267	0.02	0.02043	102.1%	0.00382	0.01077	OK

ELEMENT: *Se* *(mg/L)*

FILE	DATE	DIGEST	REP1	REP2	REP3	REP4	REP5	REP6	REP7	REP8	REP9	REP10	TV	AVG	% REC	STDEV	MDL	
BPA18A	01/18/1999	MDLAQB01	0.05854	0.05869	0.04852	0.04250	0.04737	0.04903	0.05098	0.03107	0.02667	0.05163	0.05	0.04650	93.0%	0.01053	0.02971	OK

ELEMENT: *Si* *(mg/L)*

FILE	DATE	DIGEST	REP1	REP2	REP3	REP4	REP5	REP6	REP7	REP8	REP9	REP10	TV	AVG	% REC	STDEV	MDL	
BPA20A	01/20/1999	MDLAQB01	0.15707	0.12006	0.17962	0.10531	0.10252	0.09428	0.08746	0.12685	0.04998	0.11094	0.05	0.11341	226.8%	0.03616	0.10201	TOO LOW

ELEMENT: *V* *(mg/L)*

FILE	DATE	DIGEST	REP1	REP2	REP3	REP4	REP5	REP6	REP7	REP8	REP9	REP10	TV	AVG	% REC	STDEV	MDL	
BPA18A	01/18/1999	MDLAQB01	0.00990	0.01212	0.00994	0.01211	0.01222	0.01003	0.01236	0.01219	0.01110	0.01329	0.01	0.01153	115.3%	0.00120	0.00339	OK

ELEMENT: *Zn* *(mg/L)*

FILE	DATE	DIGEST	REP1	REP2	REP3	REP4	REP5	REP6	REP7	REP8	REP9	REP10	TV	AVG	% REC	STDEV	MDL	
BPA20A	01/20/1999	MDLAQB01	0.00218	0.00321	0.00519	0.00456	0.00268	0.00127	0.00274	0.00436	0.00124	0.00463	0.003	0.00321	106.9%	0.00143	0.00402	TOO LOW

METALS MDL SUMMARY REPORT

INSTRUMENT ID: *D LEEMAN PS200* *METHOD: 7470*

ELEMENT: *Hg (ug/L)*

FILE	DATE	DIGEST	REP1	REP2	REP3	REP4	REP5	REP6	REP7	REP8	REP9	REP10	TV	AVG	% REC	STDEV	MDL	
DPA21B	01/21/1999	MDLAQD-01	0.01700	0.11400	0.10300	0.23700	0.12800	0.11200	0.11600	0.10900	0.12800	0.11600	0.1	0.11800	118.0%	0.05263	0.14847	TOO LOW

Appendix C

Analytical Report Data Tables

C.1 Ground-Water Samples Sites 1 and 3
C.2 Ground-Water Samples Eastern Plume
C.3 Aqueous Samples Ground-Water Extraction and Treatment System
C.4 Surface Water Samples Sites 1 and 3
C.5 Sediment Samples Sites 1 and 3
C.6 Leachate Station Seep Samples Sites 1 and 3
C.7 Leachate Station Sediment Samples Sites 1 and 3
C.8 MS/MSD Recovery Reports

Appendix C.1

Ground-Water Samples
Sites 1 and 3

APPENDIX C.1

SAMPLE KEY - SITES 1 AND 3
NAVAL AIR STATION, BRUNSWICK, MAINE

Sample Designation	Sample Station
Monitoring Wells	
SI-MW202A	MW-202A
SI-MWXD1	MW-202A (DUP)
SI-MW203	MW-203
SI-MW204	MW-204
SI-MW217B	MW-217B
SI-MW218	MW-218
SI-MW219	MW-219
SI-MW240	MW-240
SI-MW2101	MW-2101
Trip Blank	
TRIP-3	TRIP-3

Katahdin
ANALYTICAL SERVICES
340 County Road No. 5
P.O. Box 720
Westbrook, ME 04098
Tel: (207) 874-2400
Fax: (207) 775-4029

CHAIN of CUSTODY

PLEASE PRINT IN PEN

Client: EA Engineering
Contact: Pete Nimmer
Phone #: (914) 565-8100
Fax #: (914) 565-8203
Address: 3 Washington Center
City: Newburgh
State: NY
Zip Code: 12550
Purchase Order #:
Proj. Name / No.:
Katahdin Quote #:
Bill (if different than above):
Address:
Sampler (Print / Sign): Brian Andersen Brian D. Andersen
Copies To: see comments

LAB USE ONLY
WORK ORDER #: WP1995 - *
KATAHDIN PROJECT MANAGER:

REMARKS:

SHIPPING INFO: ☐ FED EX ☐ UPS ☐ CLIENT
AIRBILL NO:
TEMP°C ☐ TEMP BLANK ☐ INTACT ☐ NOT INTACT

ANALYSIS AND CONTAINER TYPE PRESERVATIVES

*	Sample Description	Date / Time coll'd	Matrix	No. of Cntrs.	VOC 8260 (Filt. ☐Y ☒N)	VOAs HCL (Filt. ☐Y ☐N)	TAL Elements and 1L plastic HNO3 (Filt. ☐Y ☐N)	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N
	BN-14-S1-MW2101	4/14/99/0954	water	4	X	X									
	BN-14-S1-MW217B	4/14/99/0936	water	4	X	X									
	BN-14-S1-MW202A	4/14/99/1114	water	8	X	X	MS/MSD								
	BN-14-S1-MW204	4/14/99/1352	water	4	X	X									
	BN-14-S1-MW219	4/14/99/1120	water	4	X	X									
	BN-14-S1-MW218	4/14/99/1404	water	4	X	X									
	BN-14-S1-MW210	4/14/99/1440	water	4	X	X									
	BN-14-S1-MW203	4/14/99/1448	water	4	X	X									
	BN-14-S1-MWXD1	4/14/99/—	water	4	X	X									
		/													
		/													
		/													
		/													
		/													
		/													
		/													

COMMENTS: Send full data package to Newburgh. Send form 1s & COC to Sue Chace at Brunswick
Trip blank - BN Trip 3 with samples / all samples in SDG BN-14-S1-MW2101. SDG complete.

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
[signature]	4/14/99 1645	[signature] 4-15-99 1645	[signature] 4/14/99 1745	04-14-99 1745	[signature]
Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)

FORMSOURCE INC. ☎ (207) 782-3311
FORM # CHN-OF-CSTDY

ORIGINAL 0000008

Katahdin ANALYTICAL SERVICES
340 County Road No. 5
P.O. Box 720
Westbrook, ME 04098
Tel: (207) 874-2400
Fax: (207) 775-4029

CHAIN of CUSTODY

PLEASE PRINT IN PEN

Client: EA Engineering
Contact: Pete Nimmer
Phone #: (914) 565-8100
Fax #: (914) 565-820

Address: 3 Washington Center
City: Newburgh
State: NY
Zip Code: 12550

Purchase Order #:
Proj. Name / No.: LTMP-14 / 29600.47
Katahdin Quote #:

Bill (if different than above):
Address:

Sampler (Print / Sign): Kim Shutty / Kim Shutty
Copies To: See Comments

LAB USE ONLY
WORK ORDER #: WP1992
KATAHDIN PROJECT MANAGER:

REMARKS:

SHIPPING INFO: ☐ FED EX ☐ UPS ☐ CLIENT
AIRBILL NO:
TEMP°C: ☐ TEMP BLANK ☐ INTACT ☐ NOT INTACT

ANALYSIS AND CONTAINER TYPE PRESERVATIVES

*	Sample Description	Date / Time coll'd	Matrix	No. of Cntrs.	Filt. ☐Y ☒N VOC by 8260 HCL - VOAs	Filt. ☐Y ☐N Tal Elements HNO3 - by 6010	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y C
	BN-14-S9-MW072	4/12/99 / 1059	WATER	3	+									
	BN-14-S9-MW075	4/12/99 / 1055	WATER	3	+									
	BN-14-S9-MW074	4/12/99 / 1157	water	3	+									
	BN-14-S9-MW076	4/12/99 / 1250	water	3	+									
	BN-14-S9-MW227	4/12/99 / 1456	water	3	+									
	BN-14-S9-MW080	4/12/99 / 1606	water	3	X									
	BN-14-S9-MW22	4/12/99 / 1649	water	3	X									
	BN-14-S9-MW-71	4/12/99 / 1602	water	3	X									
	BN-14-S9-MS/MSD MW069	4/13/99 / 0922	water	6	X	X								
	BN-14-S9-MWXD1	4/13/99 / —	water	3	X	X								
	BN-14-S9-MW079	4/13/99 / 1034	water	1		X								
	BN-14-S9-MW070	4/13/99 / 1431	water	1		X								
	BN-TRIP 3	4/12/99 / 1059	water	2	X									
		/												
		/												
		/												

COMMENTS: all samples in SDG# BN-14-S9-MW072. SDG complete. Send full data package to Newburgh. Send form 1s ~~to~~ COCs to Sue Chase in Brunswick.

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
[signature]	4/14/99 1645	B M 4/14/99 1645	B M 4/14/99 1745	04-14-99 1745	[signature]
Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1995-3
SDG: BN14S1MW2101
Report Date: 5/11/99
PO No. : 29600.47.7504
Project: NASB LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/27/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-S1-MW202A	AQ	4/14/99	4/14/99	4/27/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	B2	ug/L	1.0	1.0	1.0
ACETONE	<5	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	3	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	37	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	3	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	10	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: B

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1995-3
SDG: BN14S1MW2101
Report Date: 5/11/99
PO No. : 29600.47.7504
Project: NASB LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/27/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-S1-MW202A	AQ	4/14/99	4/14/99	4/27/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	96	%	1.0		
TOLUENE-D8	94	%	1.0		
P-BROMOFLUOROBENZENE	92	%	1.0		
1,2-DICHLOROETHANE-D4	101	%	1.0		

Report Notes: B

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** BN-14-S1-MW202A

Matrix: WATER **SDG Name:** BN14S1MW2101

Percent Solids: 0.00 **Lab Sample ID:** WP1995-003

Concentration Units (ug/L or mg/Kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF
7429-90-5	ALUMINUM	20.93	U		P	1
7440-36-0	ANTIMONY	1.81	U		P	1
7440-38-2	ARSENIC	2.07	U		P	1
7440-39-3	BARIUM	49.8			P	1
7440-41-7	BERYLLIUM	0.21	U		P	1
7440-43-9	CADMIUM	2.6	B		P	1
7440-70-2	CALCIUM	71000			P	1
7440-47-3	CHROMIUM	10.6	B		P	1
7440-48-4	COBALT	8.5	B		P	1
7440-50-8	COPPER	7.5	B		P	1
7439-89-6	IRON	8030			P	1
7439-92-1	LEAD	1.09	U		P	1
7439-95-4	MAGNESIUM	9120		N	P	1
7439-96-5	MANGANESE	878			P	1
7439-97-6	MERCURY	0.02	B		CV	1
7440-02-0	NICKEL	47.0			P	1
7440-09-7	POTASSIUM	6670			P	1
7782-49-2	SELENIUM	2.57	U		P	1
7440-22-4	SILVER	0.69	U		P	1
7440-23-5	SODIUM	13500			P	1
7440-28-0	THALLIUM	4.49	U		P	1
7440-62-2	VANADIUM	0.62	U		P	1
7440-66-6	ZINC	9.8	B		P	1

Color Before: COLORLESS Clarity Before: CLEAR

Color After: COLORLESS Clarity After: CLEAR

Comments:

FORM I - IN

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1995-9
SDG: BN14S1MW2101
Report Date: 5/11/99
PO No. : 29600.47.7504
Project: NASB LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/27/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-S1-MWXD1	AQ	4/14/99	4/14/99	4/27/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	B2	ug/L	1.0	1.0	1.0
ACETONE	<5	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	4	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	43	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	2	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	4	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	2	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	12	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: B

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1995-9
SDG: BN14S1MW2101
Report Date: 5/11/99
PO No. : 29600.47.7504
Project: NASB LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/27/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-S1-MWXD1	AQ	4/14/99	4/14/99	4/27/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	103	%	1.0		
TOLUENE-D8	95	%	1.0		
P-BROMOFLUOROBENZENE	93	%	1.0		
1,2-DICHLOROETHANE-D4	108	%	1.0		

Report Notes: B

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** BN-14-S1-MWXD1

Matrix: WATER **SDG Name:** BN14S1MW2101

Percent Solids: 0.00 **Lab Sample ID:** WP1995-009

Concentration Units (ug/L or mg/Kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF
7429-90-5	ALUMINUM	20.93	U		P	1
7440-36-0	ANTIMONY	1.81	U		P	1
7440-38-2	ARSENIC	2.07	U		P	1
7440-39-3	BARIUM	52.3			P	1
7440-41-7	BERYLLIUM	0.21	U		P	1
7440-43-9	CADMIUM	0.81	B		P	1
7440-70-2	CALCIUM	86400			P	1
7440-47-3	CHROMIUM	2.6	B		P	1
7440-48-4	COBALT	11.9	B		P	1
7440-50-8	COPPER	7.6	B		P	1
7439-89-6	IRON	11000			P	1
7439-92-1	LEAD	1.09	U		P	1
7439-95-4	MAGNESIUM	10600		N	P	1
7439-96-5	MANGANESE	1140			P	1
7439-97-6	MERCURY	0.03	B		CV	1
7440-02-0	NICKEL	37.7	B		P	1
7440-09-7	POTASSIUM	5770			P	1
7782-49-2	SELENIUM	2.57	U		P	1
7440-22-4	SILVER	1.8	B		P	1
7440-23-5	SODIUM	14400			P	1
7440-28-0	THALLIUM	4.49	U		P	1
7440-62-2	VANADIUM	0.62	U		P	1
7440-66-6	ZINC	5.7	B		P	1

Color Before: COLORLESS Clarity Before: CLEAR

Color After: COLORLESS Clarity After: CLEAR

Comments:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1995-8
SDG: BN14S1MW2101
Report Date: 5/11/99
PO No. : 29600.47.7504
Project: NASB LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/27/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-S1-MW203	AQ	4/14/99	4/14/99	4/27/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	B2	ug/L	1.0	1.0	1.0
ACETONE	<5	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	J0.6	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: B, J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1995-8
SDG: BN14S1MW2101
Report Date: 5/11/99
PO No. : 29600.47.7504
Project: NASB LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/27/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-S1-MW203	AQ	4/14/99	4/14/99	4/27/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	95	%	1.0		
TOLUENE-D8	97	%	1.0		
P-BROMOFLUOROBENZENE	94	%	1.0		
1,2-DICHLOROETHANE-D4	101	%	1.0		

Report Notes: B, J

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** BN-14-S1-MW203

Matrix: WATER **SDG Name:** BN14S1MW2101

Percent Solids: 0.00 **Lab Sample ID:** WP1995-008

Concentration Units (ug/L or mg/Kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF
7429-90-5	ALUMINUM	82.7	B		P	1
7440-36-0	ANTIMONY	1.81	U		P	1
7440-38-2	ARSENIC	2.07	U		P	1
7440-39-3	BARIUM	44.1			P	1
7440-41-7	BERYLLIUM	0.21	U		P	1
7440-43-9	CADMIUM	0.34	B		P	1
7440-70-2	CALCIUM	95900			P	1
7440-47-3	CHROMIUM	163			P	1
7440-48-4	COBALT	23.0	B		P	1
7440-50-8	COPPER	57.3			P	1
7439-89-6	IRON	1190			P	1
7439-92-1	LEAD	1.1	B		P	1
7439-95-4	MAGNESIUM	16000		N	P	1
7439-96-5	MANGANESE	42.1			P	1
7439-97-6	MERCURY	0.03	B		CV	1
7440-02-0	NICKEL	22.2	B		P	1
7440-09-7	POTASSIUM	4520			P	1
7782-49-2	SELENIUM	2.57	U		P	1
7440-22-4	SILVER	0.69	U		P	1
7440-23-5	SODIUM	24900			P	1
7440-28-0	THALLIUM	4.49	U		P	1
7440-62-2	VANADIUM	2.6	B		P	1
7440-66-6	ZINC	4.0	B		P	1

Color Before: COLORLESS Clarity Before: CLEAR

Color After: COLORLESS Clarity After: CLEAR

Comments:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1995-4
SDG: BN14S1MW2101
Report Date: 5/11/99
PO No. : 29600.47.7504
Project: NASB LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/25/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-S1-MW204	AQ	4/14/99	4/14/99	4/25/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	<1	ug/L	1.0	1.0	1.0
ACETONE	<5	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1995-4
SDG: BN14S1MW2101
Report Date: 5/11/99
PO No. : 29600.47.7504
Project: NASB LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/25/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-S1-MW204	AQ	4/14/99	4/14/99	4/25/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	98	%	1.0		
TOLUENE-D8	100	%	1.0		
P-BROMOFLUOROBENZENE	99	%	1.0		
1,2-DICHLOROETHANE-D4	97	%	1.0		

Report Notes:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** BN-14-S1-MW204

Matrix: WATER **SDG Name:** BN14S1MW2101

Percent Solids: 0.00 **Lab Sample ID:** WP1995-004

Concentration Units (ug/L or mg/Kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF
7429-90-5	ALUMINUM	20.93	U		P	1
7440-36-0	ANTIMONY	1.81	U		P	1
7440-38-2	ARSENIC	2.07	U		P	1
7440-39-3	BARIUM	1.6	B		P	1
7440-41-7	BERYLLIUM	0.21	U		P	1
7440-43-9	CADMIUM	0.34	B		P	1
7440-70-2	CALCIUM	2570			P	1
7440-47-3	CHROMIUM	3.7	B		P	1
7440-48-4	COBALT	0.64	U		P	1
7440-50-8	COPPER	3.9	B		P	1
7439-89-6	IRON	74.7			P	1
7439-92-1	LEAD	2.0	B		P	1
7439-95-4	MAGNESIUM	862		N	P	1
7439-96-5	MANGANESE	1.4	B		P	1
7439-97-6	MERCURY	0.02	U		CV	1
7440-02-0	NICKEL	3.2	B		P	1
7440-09-7	POTASSIUM	610	B		P	1
7782-49-2	SELENIUM	2.57	U		P	1
7440-22-4	SILVER	0.69	U		P	1
7440-23-5	SODIUM	4680			P	1
7440-28-0	THALLIUM	4.49	U		P	1
7440-62-2	VANADIUM	0.63	B		P	1
7440-66-6	ZINC	2.0	B		P	1

Color Before: COLORLESS Clarity Before: CLEAR

Color After: COLORLESS Clarity After: CLEAR

Comments:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1995-2
SDG: BN14S1MW2101
Report Date: 5/11/99
PO No. : 29600.47.7504
Project: NASB LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/25/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-S1-MW217B	AQ	4/14/99	4/14/99	4/25/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	35	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	<1	ug/L	1.0	1.0	1.0
ACETONE	8	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	J0.7	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	8	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	J0.7	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	5	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	3	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: J, E

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1995-2
SDG: BN14S1MW2101
Report Date: 5/11/99
PO No. : 29600.47.7504
Project: NASB LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/25/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-S1-MW217B	AQ	4/14/99	4/14/99	4/25/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	E210	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	130	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	140	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	98	%	1.0		
TOLUENE-D8	101	%	1.0		
P-BROMOFLUOROBENZENE	100	%	1.0		
1,2-DICHLOROETHANE-D4	103	%	1.0		

Report Notes: J, E

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1995-2DL
SDG: BN14S1MW2101
Report Date: 5/11/99
PO No. : 29600.47.7504
Project: NASB LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/26/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-S1-MW217B	AQ	4/14/99	4/14/99	4/26/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<4	ug/L	2.0	4	2.0
BROMOMETHANE	<4	ug/L	2.0	4	2.0
VINYL CHLORIDE	39	ug/L	2.0	4	2.0
CHLOROETHANE	<4	ug/L	2.0	4	2.0
METHYLENE CHLORIDE	B3	ug/L	2.0	2	1.0
ACETONE	24	ug/L	2.0	10	5
CARBON DISULFIDE	<2	ug/L	2.0	2	1.0
1,1-DICHLOROETHENE	<2	ug/L	2.0	2	1.0
1,1-DICHLOROETHANE	J1	ug/L	2.0	2	1.0
TOTAL 1,2-DICHLOROETHENE	2	ug/L	2.0	2	1.0
CHLOROFORM	<2	ug/L	2.0	2	1.0
1,2-DICHLOROETHANE	<2	ug/L	2.0	2	1.0
2-BUTANONE	<10	ug/L	2.0	10	5
1,1,1-TRICHLOROETHANE	<2	ug/L	2.0	2	1.0
CARBON TETRACHLORIDE	<2	ug/L	2.0	2	1.0
BROMODICHLOROMETHANE	<2	ug/L	2.0	2	1.0
1,2-DICHLOROPROPANE	<2	ug/L	2.0	2	1.0
CIS-1,3-DICHLOROPROPENE	<2	ug/L	2.0	2	1.0
TRICHLOROETHENE	<2	ug/L	2.0	2	1.0
DIBROMOCHLOROMETHANE	<2	ug/L	2.0	2	1.0
1,1,2-TRICHLOROETHANE	<2	ug/L	2.0	2	1.0
BENZENE	6	ug/L	2.0	2	1.0
TRANS-1,3-DICHLOROPROPENE	<2	ug/L	2.0	2	1.0
BROMOFORM	<2	ug/L	2.0	2	1.0
4-METHYL-2-PENTANONE	<6	ug/L	2.0	6	3
2-HEXANONE	<8	ug/L	2.0	8	4
TETRACHLOROETHENE	<2	ug/L	2.0	2	1.0
1,1,2,2-TETRACHLOROETHANE	<2	ug/L	2.0	2	1.0
TOLUENE	<2	ug/L	2.0	2	1.0
CHLOROBENZENE	4	ug/L	2.0	2	1.0
ETHYLBENZENE	<2	ug/L	2.0	2	1.0
STYRENE	<2	ug/L	2.0	2	1.0
TOTAL XYLENES	<2	ug/L	2.0	2	1.0

Report Notes: B, J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1995-2DL
SDG: BN14S1MW2101
Report Date: 5/11/99
PO No. : 29600.47.7504
Project: NASB LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/26/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-S1-MW217B	AQ	4/14/99	4/14/99	4/26/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	260	ug/L	2.0	2	1.0
1,3-DICHLOROBENZENE	150	ug/L	2.0	2	1.0
1,4-DICHLOROBENZENE	170	ug/L	2.0	2	1.0
DIBROMOFLUOROMETHANE	93	%	2.0		
TOLUENE-D8	98	%	2.0		
P-BROMOFLUOROBENZENE	95	%	2.0		
1,2-DICHLOROETHANE-D4	96	%	2.0		

Report Notes: B, J

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** BN-14-S1-MW217B

Matrix: WATER **SDG Name:** BN14S1MW2101

Percent Solids: 0.00 **Lab Sample ID:** WP1995-002

Concentration Units (ug/L or mg/Kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF
7429-90-5	ALUMINUM	14900			P	1
7440-36-0	ANTIMONY	1.81	U		P	1
7440-38-2	ARSENIC	11.2			P	1
7440-39-3	BARIUM	190			P	1
7440-41-7	BERYLLIUM	0.99	B		P	1
7440-43-9	CADMIUM	0.43	B		P	1
7440-70-2	CALCIUM	121000			P	1
7440-47-3	CHROMIUM	83.2			P	1
7440-48-4	COBALT	26.5	B		P	1
7440-50-8	COPPER	31.4			P	1
7439-89-6	IRON	42800			P	1
7439-92-1	LEAD	13.8			P	1
7439-95-4	MAGNESIUM	43500		N	P	1
7439-96-5	MANGANESE	3120			P	1
7439-97-6	MERCURY	0.04	B		CV	1
7440-02-0	NICKEL	78.7			P	1
7440-09-7	POTASSIUM	10100			P	1
7782-49-2	SELENIUM	4.4	B		P	1
7440-22-4	SILVER	0.69	U		P	1
7440-23-5	SODIUM	240000			P	1
7440-28-0	THALLIUM	4.49	U		P	1
7440-62-2	VANADIUM	34.8			P	1
7440-66-6	ZINC	70.2			P	1

Color Before: YELLOW Clarity Before: CLOUDY

Color After: YELLOW Clarity After: CLEAR

Comments:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1995-6
SDG: BN14S1MW2101
Report Date: 5/11/99
PO No. : 29600.47.7504
Project: NASB LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/27/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-S1-MW218	AQ	4/14/99	4/14/99	4/27/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	B2	ug/L	1.0	1.0	1.0
ACETONE	<5	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: B

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1995-6
SDG: BN14S1MW2101
Report Date: 5/11/99
PO No. : 29600.47.7504
Project: NASB LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/27/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-S1-MW218	AQ	4/14/99	4/14/99	4/27/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	93	%	1.0		
TOLUENE-D8	98	%	1.0		
P-BROMOFLUOROBENZENE	97	%	1.0		
1,2-DICHLOROETHANE-D4	94	%	1.0		

Report Notes: B

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** BN-14-S1-MW218

Matrix: WATER **SDG Name:** BN14S1MW2101

Percent Solids: 0.00 **Lab Sample ID:** WP1995-006

Concentration Units (ug/L or mg/Kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF
7429-90-5	ALUMINUM	279			P	1
7440-36-0	ANTIMONY	1.81	U		P	1
7440-38-2	ARSENIC	75.0			P	1
7440-39-3	BARIUM	2.9	B		P	1
7440-41-7	BERYLLIUM	0.21	U		P	1
7440-43-9	CADMIUM	0.44	B		P	1
7440-70-2	CALCIUM	12400			P	1
7440-47-3	CHROMIUM	7.2	B		P	1
7440-48-4	COBALT	2.0	B		P	1
7440-50-8	COPPER	2.5	B		P	1
7439-89-6	IRON	2430			P	1
7439-92-1	LEAD	1.09	U		P	1
7439-95-4	MAGNESIUM	7020		N	P	1
7439-96-5	MANGANESE	559			P	1
7439-97-6	MERCURY	0.04	B		CV	1
7440-02-0	NICKEL	5.3	B		P	1
7440-09-7	POTASSIUM	8240			P	1
7782-49-2	SELENIUM	2.57	U		P	1
7440-22-4	SILVER	0.71	B		P	1
7440-23-5	SODIUM	226000			P	1
7440-28-0	THALLIUM	4.49	U		P	1
7440-62-2	VANADIUM	0.62	U		P	1
7440-66-6	ZINC	12.0	B		P	1

Color Before: COLORLESS Clarity Before: CLEAR

Color After: COLORLESS Clarity After: CLEAR

Comments:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1995-5
SDG: BN14S1MW2101
Report Date: 5/11/99
PO No. : 29600.47.7504
Project: NASB LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/27/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-S1-MW219	AQ	4/14/99	4/14/99	4/27/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	B2	ug/L	1.0	1.0	1.0
ACETONE	<5	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: B

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1995-5
SDG: BN14S1MW2101
Report Date: 5/11/99
PO No. : 29600.47.7504
Project: NASB LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/27/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-S1-MW219	AQ	4/14/99	4/14/99	4/27/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	98	%	1.0		
TOLUENE-D8	93	%	1.0		
P-BROMOFLUOROBENZENE	95	%	1.0		
1,2-DICHLOROETHANE-D4	101	%	1.0		

Report Notes: B

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** BN-14-S1-MW219

Matrix: WATER **SDG Name:** BN14S1MW2101

Percent Solids: 0.00 **Lab Sample ID:** WP1995-005

Concentration Units (ug/L or mg/Kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF
7429-90-5	ALUMINUM	162			P	1
7440-36-0	ANTIMONY	1.81	U		P	1
7440-38-2	ARSENIC	2.07	U		P	1
7440-39-3	BARIUM	5.0	B		P	1
7440-41-7	BERYLLIUM	0.21	U		P	1
7440-43-9	CADMIUM	0.31	B		P	1
7440-70-2	CALCIUM	8240			P	1
7440-47-3	CHROMIUM	4.4	B		P	1
7440-48-4	COBALT	0.64	U		P	1
7440-50-8	COPPER	3.6	B		P	1
7439-89-6	IRON	369			P	1
7439-92-1	LEAD	1.09	U		P	1
7439-95-4	MAGNESIUM	3020		N	P	1
7439-96-5	MANGANESE	5.2			P	1
7439-97-6	MERCURY	0.03	B		CV	1
7440-02-0	NICKEL	4.5	B		P	1
7440-09-7	POTASSIUM	1150			P	1
7782-49-2	SELENIUM	2.57	U		P	1
7440-22-4	SILVER	0.69	U		P	1
7440-23-5	SODIUM	8050			P	1
7440-28-0	THALLIUM	4.49	U		P	1
7440-62-2	VANADIUM	0.62	U		P	1
7440-66-6	ZINC	17.4	B		P	1

Color Before: COLORLESS Clarity Before: CLEAR

Color After: COLORLESS Clarity After: CLEAR

Comments:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1995-7
SDG: BN14S1MW2101
Report Date: 5/11/99
PO No. : 29600.47.7504
Project: NASB LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/27/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-S1-MW240	AQ	4/14/99	4/14/99	4/27/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	B2	ug/L	1.0	1.0	1.0
ACETONE	<5	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: B

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1995-7
SDG: BN14S1MW2101
Report Date: 5/11/99
PO No. : 29600.47.7504
Project: NASB LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/27/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-S1-MW240	AQ	4/14/99	4/14/99	4/27/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	94	%	1.0		
TOLUENE-D8	96	%	1.0		
P-BROMOFLUOROBENZENE	94	%	1.0		
1,2-DICHLOROETHANE-D4	100	%	1.0		

Report Notes: B

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** BN-14-S1-MW240

Matrix: WATER **SDG Name:** BN14S1MW2101

Percent Solids: 0.00 **Lab Sample ID:** WP1995-007

Concentration Units (ug/L or mg/Kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF
7429-90-5	ALUMINUM	808			P	1
7440-36-0	ANTIMONY	1.81	U		P	1
7440-38-2	ARSENIC	2.07	U		P	1
7440-39-3	BARIUM	9.1			P	1
7440-41-7	BERYLLIUM	0.21	U		P	1
7440-43-9	CADMIUM	0.26	U		P	1
7440-70-2	CALCIUM	9040			P	1
7440-47-3	CHROMIUM	5.8	B		P	1
7440-48-4	COBALT	2.4	B		P	1
7440-50-8	COPPER	3.9	B		P	1
7439-89-6	IRON	110			P	1
7439-92-1	LEAD	1.09	U		P	1
7439-95-4	MAGNESIUM	1250		N	P	1
7439-96-5	MANGANESE	15.8			P	1
7439-97-6	MERCURY	0.04	B		CV	1
7440-02-0	NICKEL	8.3	B		P	1
7440-09-7	POTASSIUM	3290			P	1
7782-49-2	SELENIUM	2.57	U		P	1
7440-22-4	SILVER	1.8	B		P	1
7440-23-5	SODIUM	5170			P	1
7440-28-0	THALLIUM	4.49	U		P	1
7440-62-2	VANADIUM	0.62	U		P	1
7440-66-6	ZINC	3.2	B		P	1

Color Before: COLORLESS Clarity Before: CLEAR

Color After: COLORLESS Clarity After: CLEAR

Comments:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1995-1
SDG: BN14S1MW2101
Report Date: 5/11/99
PO No. : 29600.47.7504
Project: NASB LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/25/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-S1-MW2101	AQ	4/14/99	4/14/99	4/25/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	<1	ug/L	1.0	1.0	1.0
ACETONE	<5	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1995-1
SDG: BN14S1MW2101
Report Date: 5/11/99
PO No. : 29600.47.7504
Project: NASB LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/25/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-S1-MW2101	AQ	4/14/99	4/14/99	4/25/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	101	%	1.0		
TOLUENE-D8	102	%	1.0		
P-BROMOFLUOROBENZENE	96	%	1.0		
1,2-DICHLOROETHANE-D4	104	%	1.0		

Report Notes:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** BN-14-S1-MW2101

Matrix: WATER **SDG Name:** BN14S1MW2101

Percent Solids: 0.00 **Lab Sample ID:** WP1995-001

Concentration Units (ug/L or mg/Kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF
7429-90-5	ALUMINUM	97.5	B		P	1
7440-36-0	ANTIMONY	1.81	U		P	1
7440-38-2	ARSENIC	2.07	U		P	1
7440-39-3	BARIUM	50.2			P	1
7440-41-7	BERYLLIUM	0.21	U		P	1
7440-43-9	CADMIUM	0.27	B		P	1
7440-70-2	CALCIUM	41800			P	1
7440-47-3	CHROMIUM	13.8	B		P	1
7440-48-4	COBALT	0.64	U		P	1
7440-50-8	COPPER	2.3	B		P	1
7439-89-6	IRON	117			P	1
7439-92-1	LEAD	2.1	B		P	1
7439-95-4	MAGNESIUM	5620		N	P	1
7439-96-5	MANGANESE	14.2			P	1
7439-97-6	MERCURY	0.03	B		CV	1
7440-02-0	NICKEL	7.5	B		P	1
7440-09-7	POTASSIUM	8070			P	1
7782-49-2	SELENIUM	2.57	U		P	1
7440-22-4	SILVER	0.69	U		P	1
7440-23-5	SODIUM	6160			P	1
7440-28-0	THALLIUM	4.49	U		P	1
7440-62-2	VANADIUM	0.62	U		P	1
7440-66-6	ZINC	7.0	B		P	1

Color Before: COLORLESS Clarity Before: CLEAR

Color After: COLORLESS Clarity After: CLEAR

Comments:

FORM I - IN

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1992-9
SDG: BN14S9MW072
Report Date: 5/6/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/24/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-TRIP3	AQ	4/12/99	4/14/99	4/24/99	JSS	5030	JSS

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	B2	ug/L	1.0	1.0	1.0
ACETONE	<5	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: B

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1992-9
SDG: BN14S9MW072
Report Date: 5/6/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/24/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-TRIP3	AQ	4/12/99	4/14/99	4/24/99	JSS	5030	JSS

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	114	%	1.0		
TOLUENE-D8	106	%	1.0		
P-BROMOFLUOROBENZENE	98	%	1.0		
1,2-DICHLOROETHANE-D4	110	%	1.0		

Report Notes: B

Appendix C.2

Ground-Water Samples
Eastern Plume

APPENDIX C.2

SAMPLE KEY - EASTERN PLUME
NAVAL AIR STATION, BRUNSWICK, MAINE

Sample Designation	Sample Station
Ground-Water Samples	
EP-MW105A	MW-105A
EP-MW205	MW-205
EP-MW207A	MW-207A
EP-MW224	MW-224
EP-MW225A	MW-225A
EP-MW229A	MW-229A
EP-MW230A	MW-230A
EP-MWXD2	MW-230A (DUP)
EP-MW231A	MW-231A
EP-MWXD1	MW-231A (DUP)
EP-MW231B	MW-231B
EP-MW303	MW-303
EP-MW305	MW-305
EP-MW306	MW-306
EP-MW308	MW-308
EP-MWXD3	MW-308 (DUP)
EP-MW309B	MW-309B
EP-MW311	MW-311
EP-MW313	MW-313
EP-MW318	MW-318
EP-MW319	MW-319
EP-MW330	MW-330
EP-MW331	MW-331
EP-MW332	MW-332
EP-MW333	MW-333
EP-MW334	MW-334
EP-MW1104	MW-1104
EP-MW-NASB-212	MW-NASB-212
EP-P106	P-106
EP-P111	P-111
EP-P132	P-132
Trip Blanks	
TRIP-1	TRIP-1
TRIP-2	TRIP-2

Katahdin ANALYTICAL SERVICES
340 County Road No. 5
P.O. Box 720
Westbrook, ME 04098
Tel: (207) 874-2400
Fax: (207) 775-4029

CHAIN of CUSTODY

PLEASE PRINT IN PEN

Client: EA Engineering | Contact: Peter Nimmer | Phone #: (914) 565-8100 | Fax #: (914) 565-8203

Address: 3 Washington Center | City: Newburgh | State: NY | Zip Code: 12550

Purchase Order #: | Proj. Name / No.: ~~EA~~ NASB LTMP14/29600.47 7504 | Katahdin Quote #:

Bill (if different than above): | Address:

Sampler (Print / Sign): James Gatherer / [signature] | Copies To: Peter Nimmer see comment

LAB USE ONLY | WORK ORDER # WP1857 | KATAHDIN PROJECT MANAGER: Andrea Colby

REMARKS:

SHIPPING INFO: ☑ FED EX ☐ UPS ☐ CLIENT

AIRBILL NO:

TEMP°C _____ ☐ TEMP BLANK ☐ INTACT ☐ NOT INTACT

ANALYSIS AND CONTAINER TYPE PRESERVATIVES

*	Sample Description	Date / Time coll'd	Matrix	No. of Cntrs.	VOCs by 8260 VOA w/ HCl (Filt. ☐Y ☑N)	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐
	BN-14-EP-MW X D1	040699/—	WATER	3	X										
	BN-14 EP 231A/ BN 14-EP MW 231A MS/MSD	040699/1006	WATER	6	X										
	BN-TRIP 1	040699/1006	WATER	2	X										
	BN-14-EP-MW231B	040699/1150	WATER	3	X										
	BN-14-EP-MW318	040699/1404	WATER	3	X										
	BN-14-EP-MW313	040699/1236	WATER	3	X										
	BN-14-EP-MW333	040699/1420	WATER	3	X										
	BN-14-EP-MW303	040699/1610	WATER	3	X										
	BN-14-EP-P132	4/6/99/1604	water	3	X										
	BN-14-EP-MW305	4/6/99/1700	water	3	X										
	BN-14-EP-MW229A	4/7/99/0954	water	3	X										
	BN-14-EP-MW230A	4/7/99/1028	water	3	X										
	BN-14-EP-MW225A	4/7/99/1153	water	3	X										
	BN-14-EP-MW332	4/7/99/1203	water	3	X										
	BN-14-EP-MW311	4/7/99/1315	water	3	X										
	BN-14-EP-MW306	4/7/99/1506	water	3	X										

COMMENTS: Please send full DATA Package to Newburgh. Send Form 1s & COC to Sue Chase in Brunswick Me.

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
Brian D Clendenen	4/7/99 1630	[signature]			
Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
		[signature]	4/7/99 1700		

FORMSOURCE INC. ☎ (207) 782-3311
FORM # CHN-OF-CSTDY

ORIGINAL 0000006

Katahdin
ANALYTICAL SERVICES
340 County Road No. 5
P.O. Box 720
Westbrook, ME 04098
Tel: (207) 874-2400
Fax: (207) 775-4029

CHAIN of CUSTODY

PLEASE PRINT IN PEN

Client: EA Engineering
Contact: Pete Nimmer
Phone #: (914) 565-8100
Fax #: (914) 565-8203
Address: 3 Washington Center
City: Newburgh
State: NY
Zip Code: 12550
Purchase Order #:
Proj. Name / No.: NASB-LTMP14 / 29600.47 7504
Katahdin Quote #:
Bill (if different than above):
Address:
Sampler (Print / Sign): Brian D Andersen BRIAN D. Andersen
Copies To: see comments.

LAB USE ONLY
WORK ORDER #: _ *
KATAHDIN PROJECT MANAGER
REMARKS:
SHIPPING INFO: ☐ FED EX ☐ UPS ☐ CLIENT
AIRBILL NO:
TEMP°C ☐ TEMP BLANK ☐ INTACT ☐ NOT INTACT

ANALYSIS AND CONTAINER TYPE PRESERVATIVES

*	Sample Description	Date / Time coll'd	Matrix	No. of Cntrs.	VOCs by 8260 VOA w/HCL Filt. ☐Y ☒N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐
	BN-14-EP-MW-FD2	4/7/99/ —	water	3	X									
	BN-14-EP-MW 224	4/7/99/1354	water	3	X									
	BN-14-EP-MW 319	4/7/99/1505	water	3	X									
		/												
		/												
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COMMENTS: Please send full Data Package to Newburgh. Send Form 1s & COC to Sue Chase Brunswick ME

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
Brian D Andersen	4/7/99 1630	[illegible]			
Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
		[illegible]			

Katahdin ANALYTICAL SERVICES
340 County Road No. 5
P.O. Box 720
Westbrook, ME 04098
Tel: (207) 874-2400
Fax: (207) 775-4029

CHAIN of CUSTODY

PLEASE PRINT IN PEN

Client	Contact	Phone #	Fax #
EA Engineering	Pete Nimmer	(914) 565-8100	(914) 565-820

Address: 3 WASHINGTON CENTER City: Newburgh State: NY Zip Code: 12550

Purchase Order #: Proj. Name / No.: NASB- LTMP Event 14 29600.47 7504 Katahdin Quote #:

Bill (if different than above): Address:

Sampler (Print / Sign): James Gathover Copies To: see comments

LAB USE ONLY WORK ORDER #:

KATAHDIN PROJECT MANAGER

REMARKS:

SHIPPING INFO: ☐ FED EX ☐ UPS ☐ CLIENT

AIRBILL NO:

TEMP°C ☐ TEMP BLANK ☐ INTACT ☐ NOT INTACT

ANALYSIS AND CONTAINER TYPE PRESERVATIVES

*	Sample Description	Date / Time coll'd	Matrix	No. of Cntrs.	VOCs by 8260 (Filt. ☐Y ☐N)	VOAs w HCL (Filt. ☐Y ☐N)	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N
	BN-14-EP-MW-NASB-212	4/7/99/1611	WATER	3	X									
	BN-14-EP-MW205	4/8/99/0954	WATER	3	X									
	BN-14-EP-MW105A	4/8/99/1114	H_2O	3	X									
	BN-14-EP-MW207A	4/8/99/1141	H_2O	3	X									
	BN-14-EP-MW331	4/8/99/1233	H_2O	3	X									
	BN-14-EP-P106	4/8/99/1235	H_2O	3	X									
	BN-14-EP-MW308	4/8/99/1420	H_2O	6	X									
	BN-14-EP-MWXD3	4/8/99/—	H_2O	3	X									
	BN-14-EP-P111	4/8/99/1534	H_2O	3	X									
	BN-14-EP-MW309B	4/8/99/1559	H_2O	3	X									
	BN-TRIP 2	4/7/99/1611	H_2O	3	X									
	BN-14-EP-MW334	4/8/99/1017	H_2O	3	X									
	BN-14-EP-MW1104	4/9/99/0905	H_2O	3	X									
	BN-14-EP-MW330	4/9/99/1333	H_2O	3	X									
		/												
		/												

COMMENTS Send full data package to Newburgh. Send Form 1s and COC to Sue Chase in Brunsw
SAMPLE BN-14-EP-MW-NASB212 ends first SDG. Second SDG for Eastern Plume is BN-14-EP-MW205 star
with sample BN-14-EP-MW205 and ends with BN-14-EP-MW330.

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
Brian Anderson	4/9/99 1515	B. Moz			
Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
			4/9/99 1620		

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1911-2
SDG: BN14EPMW205
Report Date: 4/30/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/17/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-EP-MW105A	AQ	4/8/99	4/9/99	4/17/99	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	<1	ug/L	1.0	1.0	1.0
ACETONE	<5	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1911-2
SDG: BN14EPMW205
Report Date: 4/30/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/17/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-EP-MW105A	AQ	4/8/99	4/9/99	4/17/99	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	90	%	1.0		
TOLUENE-D8	97	%	1.0		
P-BROMOFLUOROBENZENE	92	%	1.0		
1,2-DICHLOROETHANE-D4	88	%	1.0		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1911-1
SDG: BN14EPMW205
Report Date: 4/30/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/17/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-EP-MW205	AQ	4/8/99	4/9/99	4/17/99	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	J0.6	ug/L	1.0	1.0	1.0
ACETONE	<5	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	17	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	16	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	E240	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	150	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	19	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: J, E

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1911-1
SDG: BN14EPMW205
Report Date: 4/30/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/17/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-EP-MW205	AQ	4/8/99	4/9/99	4/17/99	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	79	%	1.0		
TOLUENE-D8	98	%	1.0		
P-BROMOFLUOROBENZENE	95	%	1.0		
1,2-DICHLOROETHANE-D4	79	%	1.0		

Report Notes: J, E

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1911-1DL
SDG: BN14EPMW205
Report Date: 4/30/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/20/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-EP-MW205	AQ	4/8/99	4/9/99	4/20/99	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<10	ug/L	5.0	10	2.0
BROMOMETHANE	<10	ug/L	5.0	10	2.0
VINYL CHLORIDE	<10	ug/L	5.0	10	2.0
CHLOROETHANE	<10	ug/L	5.0	10	2.0
METHYLENE CHLORIDE	B11	ug/L	5.0	5	1.0
ACETONE	<25	ug/L	5.0	25	5
CARBON DISULFIDE	<5	ug/L	5.0	5	1.0
1,1-DICHLOROETHENE	20	ug/L	5.0	5	1.0
1,1-DICHLOROETHANE	<5	ug/L	5.0	5	1.0
TOTAL 1,2-DICHLOROETHENE	15	ug/L	5.0	5	1.0
CHLOROFORM	J3	ug/L	5.0	5	1.0
1,2-DICHLOROETHANE	J2	ug/L	5.0	5	1.0
2-BUTANONE	<25	ug/L	5.0	25	5
1,1,1-TRICHLOROETHANE	300	ug/L	5.0	5	1.0
CARBON TETRACHLORIDE	<5	ug/L	5.0	5	1.0
BROMODICHLOROMETHANE	<5	ug/L	5.0	5	1.0
1,2-DICHLOROPROPANE	<5	ug/L	5.0	5	1.0
CIS-1,3-DICHLOROPROPENE	<5	ug/L	5.0	5	1.0
TRICHLOROETHENE	160	ug/L	5.0	5	1.0
DIBROMOCHLOROMETHANE	<5	ug/L	5.0	5	1.0
1,1,2-TRICHLOROETHANE	<5	ug/L	5.0	5	1.0
BENZENE	<5	ug/L	5.0	5	1.0
TRANS-1,3-DICHLOROPROPENE	<5	ug/L	5.0	5	1.0
BROMOFORM	<5	ug/L	5.0	5	1.0
4-METHYL-2-PENTANONE	<15	ug/L	5.0	15	3
2-HEXANONE	<20	ug/L	5.0	20	4
TETRACHLOROETHENE	15	ug/L	5.0	5	1.0
1,1,2,2-TETRACHLOROETHANE	<5	ug/L	5.0	5	1.0
TOLUENE	<5	ug/L	5.0	5	1.0
CHLOROBENZENE	<5	ug/L	5.0	5	1.0
ETHYLBENZENE	<5	ug/L	5.0	5	1.0
STYRENE	<5	ug/L	5.0	5	1.0
TOTAL XYLENES	<5	ug/L	5.0	5	1.0

Report Notes: B, J, O-2

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1911-1DL
SDG: BN14EPMW205
Report Date: 4/30/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/20/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-EP-MW205	AQ	4/8/99	4/9/99	4/20/99	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<5	ug/L	5.0	5	1.0
1,3-DICHLOROBENZENE	<5	ug/L	5.0	5	1.0
1,4-DICHLOROBENZENE	<5	ug/L	5.0	5	1.0
DIBROMOFLUOROMETHANE	119	%	5.0		
TOLUENE-D8	108	%	5.0		
P-BROMOFLUOROBENZENE	106	%	5.0		
1,2-DICHLOROETHANE-D4	135	%	5.0		

Report Notes: B, J, O-2

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1911-3
SDG: BN14EPMW205
Report Date: 4/30/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/17/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-EP-MW207A	AQ	4/8/99	4/9/99	4/17/99	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	<1	ug/L	1.0	1.0	1.0
ACETONE	<5	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	4	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	16	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	31	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	46	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	33	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1911-3
SDG: BN14EPMW205
Report Date: 4/30/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/17/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-EP-MW207A	AQ	4/8/99	4/9/99	4/17/99	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	92	%	1.0		
TOLUENE-D8	98	%	1.0		
P-BROMOFLUOROBENZENE	95	%	1.0		
1,2-DICHLOROETHANE-D4	89	%	1.0		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1857-18
SDG: BN14EP231A
Report Date: 5/3/99
PO No.: 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/12/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-EP-MW224	AQ	4/7/99	4/7/99	4/12/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	<1	ug/L	1.0	1.0	1.0
ACETONE	<5	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	J0.9	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1857-18
SDG: BN14EP231A
Report Date: 5/3/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/12/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-EP-MW224	AQ	4/7/99	4/7/99	4/12/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	118	%	1.0		
TOLUENE-D8	109	%	1.0		
P-BROMOFLUOROBENZENE	93	%	1.0		
1,2-DICHLOROETHANE-D4	114	%	1.0		

Report Notes: J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1857-13
SDG: BN14EP231A
Report Date: 5/3/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/15/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-EP-MW225A	AQ	4/7/99	4/7/99	4/15/99	JSS	5030	JSS

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	JB0.9	ug/L	1.0	1.0	1.0
ACETONE	<5	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	2	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	2	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	2	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	J0.8	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: B, J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1857-13
SDG: BN14EP231A
Report Date: 5/3/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/15/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-EP-MW225A	AQ	4/7/99	4/7/99	4/15/99	JSS	5030	JSS

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	109	%	1.0		
TOLUENE-D8	107	%	1.0		
P-BROMOFLUOROBENZENE	77	%	1.0		
1,2-DICHLOROETHANE-D4	81	%	1.0		

Report Notes: B, J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1857-11
SDG: BN14EP231A
Report Date: 5/3/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/14/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-EP-MW229A	AQ	4/7/99	4/7/99	4/14/99	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	B23	ug/L	1.0	1.0	1.0
ACETONE	<5	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	2	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	8	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	J3	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	B42	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	B37	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	5	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: B, J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1857-11
SDG: BN14EP231A
Report Date: 5/3/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/14/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-EP-MW229A	AQ	4/7/99	4/7/99	4/14/99	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	100	%	1.0		
TOLUENE-D8	94	%	1.0		
P-BROMOFLUOROBENZENE	90	%	1.0		
1,2-DICHLOROETHANE-D4	106	%	1.0		

Report Notes: B, J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1857-12
SDG: BN14EP231A
Report Date: 5/3/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/14/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-EP-MW230A	AQ	4/7/99	4/7/99	4/14/99	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	B22	ug/L	1.0	1.0	1.0
ACETONE	<5	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	J0.7	ug/L	1.0	1.0	1.0
2-BUTANONE	J4	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: B, J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1857-12
SDG: BN14EP231A
Report Date: 5/3/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/14/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-EP-MW230A	AQ	4/7/99	4/7/99	4/14/99	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	100	%	1.0		
TOLUENE-D8	95	%	1.0		
P-BROMOFLUOROBENZENE	91	%	1.0		
1,2-DICHLOROETHANE-D4	106	%	1.0		

Report Notes: B, J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1857-17
SDG: BN14EP231A
Report Date: 5/3/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/12/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-EP-MWXD2	AQ	4/7/99	4/7/99	4/12/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	1	ug/L	1.0	1.0	1.0
ACETONE	<5	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	J0.7	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1857-17
SDG: BN14EP231A
Report Date: 5/3/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/12/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-EP-MWXD2	AQ	4/7/99	4/7/99	4/12/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	117	%	1.0		
TOLUENE-D8	107	%	1.0		
P-BROMOFLUOROBENZENE	91	%	1.0		
1,2-DICHLOROETHANE-D4	112	%	1.0		

Report Notes: J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1857-2
SDG: BN14EP231A
Report Date: 5/3/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/10/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-EP-231A	AQ	4/6/99	4/7/99	4/10/99	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	B3	ug/L	1.0	1.0	1.0
ACETONE	JB4	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	14	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: B, J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1857-2
SDG: BN14EP231A
Report Date: 5/3/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/10/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-EP-231A	AQ	4/6/99	4/7/99	4/10/99	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	92	%	1.0		
TOLUENE-D8	85	%	1.0		
P-BROMOFLUOROBENZENE	76	%	1.0		
1,2-DICHLOROETHANE-D4	87	%	1.0		

Report Notes: B, J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1857-1
SDG: BN14EP231A
Report Date: 5/3/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/10/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-EP-MWXD1	AQ	4/6/99	4/7/99	4/10/99	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	JB0.7	ug/L	1.0	1.0	1.0
ACETONE	JB3	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	8	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: B, J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1857-1
SDG: BN14EP231A
Report Date: 5/3/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/10/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-EP-MWXD1	AQ	4/6/99	4/7/99	4/10/99	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	92	%	1.0		
TOLUENE-D8	86	%	1.0		
P-BROMOFLUOROBENZENE	78	%	1.0		
1,2-DICHLOROETHANE-D4	89	%	1.0		

Report Notes: B, J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1857-4
SDG: BN14EP231A
Report Date: 5/3/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/10/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-EP-MW231B	AQ	4/6/99	4/7/99	4/10/99	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	<1	ug/L	1.0	1.0	1.0
ACETONE	JB3	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	12	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: B, J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1857-4
SDG: BN14EP231A
Report Date: 5/3/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/10/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-EP-MW231B	AQ	4/6/99	4/7/99	4/10/99	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	96	%	1.0		
TOLUENE-D8	98	%	1.0		
P-BROMOFLUOROBENZENE	87	%	1.0		
1,2-DICHLOROETHANE-D4	83	%	1.0		

Report Notes: B, J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1857-8
SDG: BN14EP231A
Report Date: 5/3/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/13/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-EP-MN303	AQ	4/6/99	4/7/99	4/13/99	JSS	5030	JSS

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	<1	ug/L	1.0	1.0	1.0
ACETONE	J3	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1857-8
SDG: BN14EP231A
Report Date: 5/3/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/13/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-EP-MN303	AQ	4/6/99	4/7/99	4/13/99	JSS	5030	JSS

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	102	%	1.0		
TOLUENE-D8	105	%	1.0		
P-BROMOFLUOROBENZENE	98	%	1.0		
1,2-DICHLOROETHANE-D4	99	%	1.0		

Report Notes: J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1857-10
SDG: BN14EP231A
Report Date: 5/3/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/15/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-EP-MW305	AQ	4/6/99	4/7/99	4/15/99	JSS	5030	JSS

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	B1	ug/L	1.0	1.0	1.0
ACETONE	<5	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: B

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1857-10
SDG: BN14EP231A
Report Date: 5/3/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/15/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-EP-MW305	AQ	4/6/99	4/7/99	4/15/99	JSS	5030	JSS

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	116	%	1.0		
TOLUENE-D8	106	%	1.0		
P-BROMOFLUOROBENZENE	91	%	1.0		
1,2-DICHLOROETHANE-D4	110	%	1.0		

Report Notes: B

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1857-16
SDG: BN14EP231A
Report Date: 5/3/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/15/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-EP-MW306	AQ	4/7/99	4/7/99	4/15/99	JSS	5030	JSS

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	B1	ug/L	1.0	1.0	1.0
ACETONE	<5	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	2	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	4	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	7	ug/L	1.0	1.0	1.0
CHLOROFORM	7	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	39	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	J0.8	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	20	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: B, J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1857-16
SDG: BN14EP231A
Report Date: 5/3/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/15/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-EP-MW306	AQ	4/7/99	4/7/99	4/15/99	JSS	5030	JSS

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	122	%	1.0		
TOLUENE-D8	108	%	1.0		
P-BROMOFLUOROBENZENE	89	%	1.0		
1,2-DICHLOROETHANE-D4	112	%	1.0		

Report Notes: B, J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1911-6
SDG: BN14EPMW205
Report Date: 4/30/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/17/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-EP-MW308	AQ	4/8/99	4/9/99	4/17/99	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	J0.7	ug/L	1.0	1.0	1.0
ACETONE	J2	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	J0.9	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	6	ug/L	1.0	1.0	1.0

Report Notes: J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1911-6
SDG: BN14EPMW205
Report Date: 4/30/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/17/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-EP-MW308	AQ	4/8/99	4/9/99	4/17/99	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	91	%	1.0		
TOLUENE-D8	97	%	1.0		
P-BROMOFLUOROBENZENE	97	%	1.0		
1,2-DICHLOROETHANE-D4	89	%	1.0		

Report Notes: J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1911-7
SDG: BN14EPMW205
Report Date: 4/30/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/17/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-EP-MWXD3	AQ	4/8/99	4/9/99	4/17/99	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	<1	ug/L	1.0	1.0	1.0
ACETONE	<5	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1911-7
SDG: BN14EPMW205
Report Date: 4/30/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/17/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-EP-MWXD3	AQ	4/8/99	4/9/99	4/17/99	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	92	%	1.0		
TOLUENE-D8	97	%	1.0		
P-BROMOFLUOROBENZENE	93	%	1.0		
1,2-DICHLOROETHANE-D4	94	%	1.0		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1911-9
SDG: BN14EPMW205
Report Date: 4/30/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/19/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-EP-MW309B	AQ	4/8/99	4/9/99	4/19/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	2	ug/L	1.0	1.0	1.0
ACETONE	<5	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1911-9
SDG: BN14EPMW205
Report Date: 4/30/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/19/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-EP-MW309B	AQ	4/8/99	4/9/99	4/19/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	90	%	1.0		
TOLUENE-D8	100	%	1.0		
P-BROMOFLUOROBENZENE	99	%	1.0		
1,2-DICHLOROETHANE-D4	86	%	1.0		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1857-15
SDG: BN14EP231A
Report Date: 5/4/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/15/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-EP-MW311	AQ	4/7/99	4/7/99	4/15/99	JSS	5030	JSS

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<40	ug/L	20	40	2.0
BROMOMETHANE	<40	ug/L	20	40	2.0
VINYL CHLORIDE	<40	ug/L	20	40	2.0
CHLOROETHANE	<40	ug/L	20	40	2.0
METHYLENE CHLORIDE	B27	ug/L	20	20	1.0
ACETONE	<100	ug/L	20	100	5
CARBON DISULFIDE	<20	ug/L	20	20	1.0
1,1-DICHLOROETHENE	330	ug/L	20	20	1.0
1,1-DICHLOROETHANE	79	ug/L	20	20	1.0
TOTAL 1,2-DICHLOROETHENE	<20	ug/L	20	20	1.0
CHLOROFORM	<20	ug/L	20	20	1.0
1,2-DICHLOROETHANE	J12	ug/L	20	20	1.0
2-BUTANONE	<100	ug/L	20	100	5
1,1,1-TRICHLOROETHANE	2400	ug/L	20	20	1.0
CARBON TETRACHLORIDE	<20	ug/L	20	20	1.0
BROMODICHLOROMETHANE	<20	ug/L	20	20	1.0
1,2-DICHLOROPROPANE	<20	ug/L	20	20	1.0
CIS-1,3-DICHLOROPROPENE	<20	ug/L	20	20	1.0
TRICHLOROETHENE	720	ug/L	20	20	1.0
DIBROMOCHLOROMETHANE	<20	ug/L	20	20	1.0
1,1,2-TRICHLOROETHANE	<20	ug/L	20	20	1.0
BENZENE	<20	ug/L	20	20	1.0
TRANS-1,3-DICHLOROPROPENE	<20	ug/L	20	20	1.0
BROMOFORM	<20	ug/L	20	20	1.0
4-METHYL-2-PENTANONE	<60	ug/L	20	60	3
2-HEXANONE	<80	ug/L	20	80	4
TETRACHLOROETHENE	J15	ug/L	20	20	1.0
1,1,2,2-TETRACHLOROETHANE	<20	ug/L	20	20	1.0
TOLUENE	<20	ug/L	20	20	1.0
CHLOROBENZENE	<20	ug/L	20	20	1.0
ETHYLBENZENE	<20	ug/L	20	20	1.0
STYRENE	<20	ug/L	20	20	1.0
TOTAL XYLENES	<20	ug/L	20	20	1.0

Report Notes: B, J, O-2

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1857-15
SDG: BN14EP231A
Report Date: 5/4/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/15/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-EP-MW311	AQ	4/7/99	4/7/99	4/15/99	JSS	5030	JSS

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<20	ug/L	20	20	1.0
1,3-DICHLOROBENZENE	<20	ug/L	20	20	1.0
1,4-DICHLOROBENZENE	<20	ug/L	20	20	1.0
DIBROMOFLUOROMETHANE	120	%	20		
TOLUENE-D8	109	%	20		
P-BROMOFLUOROBENZENE	90	%	20		
1,2-DICHLOROETHANE-D4	109	%	20		

Report Notes: B, J, O-2

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1857-6
SDG: BN14EP231A
Report Date: 5/3/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/10/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-EP-MW313	AQ	4/6/99	4/7/99	4/10/99	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	<1	ug/L	1.0	1.0	1.0
ACETONE	JB3	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: B, J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1857-6
SDG: BN14EP231A
Report Date: 5/3/99
PO No.: 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/10/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-EP-MW313	AQ	4/6/99	4/7/99	4/10/99	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	97	%	1.0		
TOLUENE-D8	99	%	1.0		
P-BROMOFLUOROBENZENE	92	%	1.0		
1,2-DICHLOROETHANE-D4	86	%	1.0		

Report Notes: B, J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1857-5
SDG: BN14EP231A
Report Date: 5/3/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/10/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-EP-MW318	AQ	4/6/99	4/7/99	4/10/99	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	B1	ug/L	1.0	1.0	1.0
ACETONE	JB3	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	J3	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: B, J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1857-5
SDG: BN14EP231A
Report Date: 5/3/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/10/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-EP-MW318	AQ	4/6/99	4/7/99	4/10/99	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	92	%	1.0		
TOLUENE-D8	92	%	1.0		
P-BROMOFLUOROBENZENE	85	%	1.0		
1,2-DICHLOROETHANE-D4	88	%	1.0		

Report Notes: B, J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1857-19
SDG: BN14EP231A
Report Date: 5/3/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/12/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-EP-MW319	AQ	4/7/99	4/7/99	4/12/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	<1	ug/L	1.0	1.0	1.0
ACETONE	<5	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	J0.5	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	20	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	6	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	18	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	26	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1857-19
SDG: BN14EP231A
Report Date: 5/3/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/12/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-EP-MW319	AQ	4/7/99	4/7/99	4/12/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	115	%	1.0		
TOLUENE-D8	109	%	1.0		
P-BROMOFLUOROBENZENE	91	%	1.0		
1,2-DICHLOROETHANE-D4	112	%	1.0		

Report Notes: J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1911-13
SDG: BN14EPMW205
Report Date: 4/30/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/19/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-EP-MW330	AQ	4/9/99	4/9/99	4/19/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	1	ug/L	1.0	1.0	1.0
ACETONE	<5	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1911-13
SDG: BN14EPMW205
Report Date: 4/30/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/19/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-EP-MW330	AQ	4/9/99	4/9/99	4/19/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	98	%	1.0		
TOLUENE-D8	100	%	1.0		
P-BROMOFLUOROBENZENE	97	%	1.0		
1,2-DICHLOROETHANE-D4	97	%	1.0		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1911-4
SDG: BN14EPMW205
Report Date: 4/30/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/17/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-EP-MW331	AQ	4/8/99	4/9/99	4/17/99	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	1	ug/L	1.0	1.0	1.0
ACETONE	J4	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	43	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	17	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	5	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	E350	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	140	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	6	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: J, E

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1911-4
SDG: BN14EPMW205
Report Date: 4/30/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/17/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-EP-MW331	AQ	4/8/99	4/9/99	4/17/99	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	85	%	1.0		
TOLUENE-D8	97	%	1.0		
P-BROMOFLUOROBENZENE	93	%	1.0		
1,2-DICHLOROETHANE-D4	93	%	1.0		

Report Notes: J, E

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1911-4DL
SDG: BN14EPMW205
Report Date: 4/30/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/20/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-EP-MW331	AQ	4/8/99	4/9/99	4/20/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<10	ug/L	5.0	10	2.0
BROMOMETHANE	<10	ug/L	5.0	10	2.0
VINYL CHLORIDE	<10	ug/L	5.0	10	2.0
CHLOROETHANE	<10	ug/L	5.0	10	2.0
METHYLENE CHLORIDE	JB4	ug/L	5.0	5	1.0
ACETONE	<25	ug/L	5.0	25	5
CARBON DISULFIDE	<5	ug/L	5.0	5	1.0
1,1-DICHLOROETHENE	36	ug/L	5.0	5	1.0
1,1-DICHLOROETHANE	15	ug/L	5.0	5	1.0
TOTAL 1,2-DICHLOROETHENE	J4	ug/L	5.0	5	1.0
CHLOROFORM	<5	ug/L	5.0	5	1.0
1,2-DICHLOROETHANE	J3	ug/L	5.0	5	1.0
2-BUTANONE	<25	ug/L	5.0	25	5
1,1,1-TRICHLOROETHANE	350	ug/L	5.0	5	1.0
CARBON TETRACHLORIDE	<5	ug/L	5.0	5	1.0
BROMODICHLOROMETHANE	<5	ug/L	5.0	5	1.0
1,2-DICHLOROPROPANE	<5	ug/L	5.0	5	1.0
CIS-1,3-DICHLOROPROPENE	<5	ug/L	5.0	5	1.0
TRICHLOROETHENE	120	ug/L	5.0	5	1.0
DIBROMOCHLOROMETHANE	<5	ug/L	5.0	5	1.0
1,1,2-TRICHLOROETHANE	<5	ug/L	5.0	5	1.0
BENZENE	<5	ug/L	5.0	5	1.0
TRANS-1,3-DICHLOROPROPENE	<5	ug/L	5.0	5	1.0
BROMOFORM	<5	ug/L	5.0	5	1.0
4-METHYL-2-PENTANONE	<15	ug/L	5.0	15	3
2-HEXANONE	<20	ug/L	5.0	20	4
TETRACHLOROETHENE	J4	ug/L	5.0	5	1.0
1,1,2,2-TETRACHLOROETHANE	<5	ug/L	5.0	5	1.0
TOLUENE	<5	ug/L	5.0	5	1.0
CHLOROBENZENE	<5	ug/L	5.0	5	1.0
ETHYLBENZENE	<5	ug/L	5.0	5	1.0
STYRENE	<5	ug/L	5.0	5	1.0
TOTAL XYLENES	<5	ug/L	5.0	5	1.0

Report Notes: B, J, O-2

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1911-4DL
SDG: BN14EPMW205
Report Date: 4/30/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/20/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-EP-MW331	AQ	4/8/99	4/9/99	4/20/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<5	ug/L	5.0	5	1.0
1,3-DICHLOROBENZENE	<5	ug/L	5.0	5	1.0
1,4-DICHLOROBENZENE	<5	ug/L	5.0	5	1.0
DIBROMOFLUOROMETHANE	120	%	5.0		
TOLUENE-D8	111	%	5.0		
P-BROMOFLUOROBENZENE	96	%	5.0		
1,2-DICHLOROETHANE-D4	120	%	5.0		

Report Notes: B, J, O-2

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1857-14
SDG: BN14EP231A
Report Date: 5/3/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/15/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-EP-MW332	AQ	4/7/99	4/7/99	4/15/99	JSS	5030	JSS

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	JB0.6	ug/L	1.0	1.0	1.0
ACETONE	<5	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	J0.8	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	12	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	2	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: B, J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1857-14
SDG: BN14EP231A
Report Date: 5/3/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/15/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-EP-MW332	AQ	4/7/99	4/7/99	4/15/99	JSS	5030	JSS

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	121	%	1.0		
TOLUENE-D8	108	%	1.0		
P-BROMOFLUOROBENZENE	88	%	1.0		
1,2-DICHLOROETHANE-D4	111	%	1.0		

Report Notes: B, J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1857-7
SDG: BN14EP231A
Report Date: 5/3/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/13/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-EP-MW333	AQ	4/6/99	4/7/99	4/13/99	JSS	5030	JSS

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	JB0.6	ug/L	1.0	1.0	1.0
ACETONE	<5	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	J0.7	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: B, J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1857-7
SDG: BN14EP231A
Report Date: 5/3/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/13/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-EP-MW333	AQ	4/6/99	4/7/99	4/13/99	JSS	5030	JSS

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	98	%	1.0		
TOLUENE-D8	104	%	1.0		
P-BROMOFLUOROBENZENE	100	%	1.0		
1,2-DICHLOROETHANE-D4	96	%	1.0		

Report Notes: B, J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1911-11
SDG: BN14EPMW205
Report Date: 4/30/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/19/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-EP-MW334	AQ	4/8/99	4/9/99	4/19/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	2	ug/L	1.0	1.0	1.0
ACETONE	<5	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1911-11
SDG: BN14EPMW205
Report Date: 4/30/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/19/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-EP-MW334	AQ	4/8/99	4/9/99	4/19/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	96	%	1.0		
TOLUENE-D8	99	%	1.0		
P-BROMOFLUOROBENZENE	98	%	1.0		
1,2-DICHLOROETHANE-D4	92	%	1.0		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1911-12
SDG: BN14EPMW205
Report Date: 4/30/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/19/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-EP-MW1104	AQ	4/9/99	4/9/99	4/19/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	1	ug/L	1.0	1.0	1.0
ACETONE	<5	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	5	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	10	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	15	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	6	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1911-12
SDG: BN14EPMW205
Report Date: 4/30/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/19/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-EP-MW1104	AQ	4/9/99	4/9/99	4/19/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	96	%	1.0		
TOLUENE-D8	99	%	1.0		
P-BROMOFLUOROBENZENE	98	%	1.0		
1,2-DICHLOROETHANE-D4	93	%	1.0		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1910-1
SDG: BN14EP231A
Report Date: 5/3/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/19/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-EP-MW-NASB-212	AQ	4/7/99	4/9/99	4/19/99	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	B3	ug/L	1.0	1.0	1.0
ACETONE	<5	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	2	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	J4	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	18	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	J0.8	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: B, J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1910-1
SDG: BN14EP231A
Report Date: 5/3/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/19/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-EP-MW-NASB-212	AQ	4/7/99	4/9/99	4/19/99	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	118	%	1.0		
TOLUENE-D8	106	%	1.0		
P-BROMOFLUOROBENZENE	101	%	1.0		
1,2-DICHLOROETHANE-D4	126	%	1.0		

Report Notes: B, J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1911-5
SDG: BN14EPMW205
Report Date: 4/30/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/17/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-EP-P106	AQ	4/8/99	4/9/99	4/17/99	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	<1	ug/L	1.0	1.0	1.0
ACETONE	<5	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	E230	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	54	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	19	ug/L	1.0	1.0	1.0
CHLOROFORM	1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	E1400	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	E520	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	2	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	12	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: E

0000014

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1911-5
SDG: BN14EPMW205
Report Date: 4/30/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/17/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-EP-P106	AQ	4/8/99	4/9/99	4/17/99	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	82	%	1.0		
TOLUENE-D8	97	%	1.0		
P-BROMOFLUOROBENZENE	95	%	1.0		
1,2-DICHLOROETHANE-D4	104	%	1.0		

Report Notes: E

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1911-5DL
SDG: BN14EPMW205
Report Date: 4/30/99
PO No.: 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/19/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-EP-P106	AQ	4/8/99	4/9/99	4/19/99	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<40	ug/L	20	40	2.0
BROMOMETHANE	<40	ug/L	20	40	2.0
VINYL CHLORIDE	<40	ug/L	20	40	2.0
CHLOROETHANE	<40	ug/L	20	40	2.0
METHYLENE CHLORIDE	B50	ug/L	20	20	1.0
ACETONE	J58	ug/L	20	100	5
CARBON DISULFIDE	<20	ug/L	20	20	1.0
1,1-DICHLOROETHENE	190	ug/L	20	20	1.0
1,1-DICHLOROETHANE	52	ug/L	20	20	1.0
TOTAL 1,2-DICHLOROETHENE	J14	ug/L	20	20	1.0
CHLOROFORM	JB11	ug/L	20	20	1.0
1,2-DICHLOROETHANE	J10	ug/L	20	20	1.0
2-BUTANONE	<100	ug/L	20	100	5
1,1,1-TRICHLOROETHANE	2000	ug/L	20	20	1.0
CARBON TETRACHLORIDE	<20	ug/L	20	20	1.0
BROMODICHLOROMETHANE	<20	ug/L	20	20	1.0
1,2-DICHLOROPROPANE	<20	ug/L	20	20	1.0
CIS-1,3-DICHLOROPROPENE	<20	ug/L	20	20	1.0
TRICHLOROETHENE	540	ug/L	20	20	1.0
DIBROMOCHLOROMETHANE	<20	ug/L	20	20	1.0
1,1,2-TRICHLOROETHANE	<20	ug/L	20	20	1.0
BENZENE	<20	ug/L	20	20	1.0
TRANS-1,3-DICHLOROPROPENE	<20	ug/L	20	20	1.0
BROMOFORM	<20	ug/L	20	20	1.0
4-METHYL-2-PENTANONE	<60	ug/L	20	60	3
2-HEXANONE	<80	ug/L	20	80	4
TETRACHLOROETHENE	<20	ug/L	20	20	1.0
1,1,2,2-TETRACHLOROETHANE	<20	ug/L	20	20	1.0
TOLUENE	<20	ug/L	20	20	1.0
CHLOROBENZENE	<20	ug/L	20	20	1.0
ETHYLBENZENE	<20	ug/L	20	20	1.0
STYRENE	<20	ug/L	20	20	1.0
TOTAL XYLENES	<20	ug/L	20	20	1.0

Report Notes: B, J, O-2

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1911-5DL
SDG: BN14EPMW205
Report Date: 4/30/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/19/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-EP-P106	AQ	4/8/99	4/9/99	4/19/99	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<20	ug/L	20	20	1.0
1,3-DICHLOROBENZENE	<20	ug/L	20	20	1.0
1,4-DICHLOROBENZENE	<20	ug/L	20	20	1.0
DIBROMOFLUOROMETHANE	118	%	20		
TOLUENE-D8	98	%	20		
P-BROMOFLUOROBENZENE	92	%	20		
1,2-DICHLOROETHANE-D4	128	%	20		

Report Notes: B, J, O-2

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1911-8
SDG: BN14EPMW205
Report Date: 4/30/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/17/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-EP-P111	AQ	4/8/99	4/9/99	4/17/99	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	<1	ug/L	1.0	1.0	1.0
ACETONE	<5	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1911-8
SDG: BN14EPMW205
Report Date: 4/30/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/17/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-EP-P111	AQ	4/8/99	4/9/99	4/17/99	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	90	%	1.0		
TOLUENE-D8	93	%	1.0		
P-BROMOFLUOROBENZENE	94	%	1.0		
1,2-DICHLOROETHANE-D4	88	%	1.0		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1857-9
SDG: BN14EP231A
Report Date: 5/3/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/13/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-EP-P132	AQ	4/6/99	4/7/99	4/13/99	JSS	5030	JSS

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	JB0.6	ug/L	1.0	1.0	1.0
ACETONE	<5	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: B, J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1857-9
SDG: BN14EP231A
Report Date: 5/3/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/13/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-EP-P132	AQ	4/6/99	4/7/99	4/13/99	JSS	5030	JSS

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	106	%	1.0		
TOLUENE-D8	106	%	1.0		
P-BROMOFLUOROBENZENE	95	%	1.0		
1,2-DICHLOROETHANE-D4	103	%	1.0		

Report Notes: B, J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1857-3
SDG: BN14EP231A
Report Date: 5/3/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/10/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-TRIP1	AQ	4/6/99	4/7/99	4/10/99	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	B1	ug/L	1.0	1.0	1.0
ACETONE	JB3	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	J3	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: B, J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1857-3
SDG: BN14EP231A
Report Date: 5/3/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/10/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-TRIP1	AQ	4/6/99	4/7/99	4/10/99	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	96	%	1.0		
TOLUENE-D8	97	%	1.0		
P-BROMOFLUOROBENZENE	85	%	1.0		
1,2-DICHLOROETHANE-D4	91	%	1.0		

Report Notes: B, J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1911-10
SDG: BN14EPMW205
Report Date: 4/30/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/19/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-TRIP2	AQ	4/7/99	4/9/99	4/19/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	2	ug/L	1.0	1.0	1.0
ACETONE	J3	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1911-10
SDG: BN14EPMW205
Report Date: 4/30/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/19/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-TRIP2	AQ	4/7/99	4/9/99	4/19/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	94	%	1.0		
TOLUENE-D8	99	%	1.0		
P-BROMOFLUOROBENZENE	96	%	1.0		
1,2-DICHLOROETHANE-D4	92	%	1.0		

Report Notes: J

Appendix C.3

Aqueous Samples
Ground-Water Extraction and Treatment System

APPENDIX C.3

SAMPLE KEY - EASTERN PLUME
NAVAL AIR STATION, BRUNSWICK, MAINE

Sample Designation	Sample Station
Ground-Water Treatment System Samples	
EP-EW01	EW-1
EP-EW02	EW-2
EP-EW02A	EW-2A
EP-EW04	EW-4
EP-EW05	EW-5
EP-TP001	INFLUENT (Eastern Plume)
EP-TP022	EFFLUENT
EP-TEXD1	EFFLUENT (DUP)
Trip Blank	
TRIP-2	TRIP-2

Katahdin
340 County Road No. 5
P.O. Box 720
Westbrook, ME 04098
Tel: (207) 874-2400
Fax: (207) 775-4029

CHAIN of CUSTODY

PLEASE PRINT IN PEN

Client: EA Engineering | Contact: Pete Nimmer | Phone #: (914) 565-8100 | Fax #: (914) 565-8203

Address: 3 Washington Center | City: Newburgh | State: NY | Zip Code: 12550

Purchase Order # | Proj. Name / No.: NASB-LTMP Event 14 29600.47 7504 | Katahdin Quote #

Bill (if different than above) | Address

Sampler (Print / Sign): James Gathever | Copies To: See comments

LAB USE ONLY | WORK ORDER #: | KATAHDIN PROJECT MANAGER

REMARKS:

SHIPPING INFO: ☐ FED EX ☐ UPS ☐ CLIENT

AIRBILL NO:

TEMP°C ☐ TEMP BLANK ☐ INTACT ☐ NOT INTACT

ANALYSIS AND CONTAINER TYPE PRESERVATIVES

*	Sample Description	Date / Time coll'd	Matrix	No. of Cntrs.	Filt. ☐Y ☒N VOCs by 8260 VOAs w HCL	Filt. ☐Y ☒N VOCs by 8260 VOAs w Na_2SO_3	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N
	BN-14-EP-EW01	4/9/99/0903	water	3	X									
	BN-14-EP-EW02A	4/9/99/0922	water	3	X									
	BN-14-EP-EW02	4/9/99/0933	water	3	X									
	BN-14-EP-EW04	4/9/99/0951	water	3	X									
	BN-14-EP-EW05	4/9/99/1004	water	3	X									
	BN-14-EP-TP01	4/9/99/1039	water	3	X									
	BN-14-TE-TP02 (T MS/MSD)	4/9/99/1050	water	6		X	Samples not presered with HCL							
	BN-14-EP-TEXD1	4/9/99/—	water	3		X	Samples not presered with HCL							
		/												
		/												
		/												
		/												
		/												
		/												
		/												
		/												

COMMENTS: Send full data package to Newburgh. Send Form 1s and COCs to Sue Chase in Brunswick. Samples start & end SDG BN-14-EP-EW01.

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
Brian Andrews	4/9/99 1515	B Moy			
Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
			4/9/99 1630		

Katahdin
ANALYTICAL SERVICES
340 County Road No. 5
P.O. Box 720
Westbrook, ME 04098
Tel: (207) 874-2400
Fax: (207) 775-4029

CHAIN of CUSTODY

PLEASE PRINT IN PEN

Client: EA Engineering
Contact: Pete Nimmer
Phone #: (914) 565-8100
Fax #: (914) 565-82
Address: 3 WASHINGTON CENTER
City: Newburgh
State: NY
Zip Code: 12550
Purchase Order #:
Proj. Name / No.: NASB- LTMP Event 14 29600.47 7504
Katahdin Quote #:
Bill (if different than above):
Address:
Sampler (Print / Sign): James Gathever
Copies To: See Comments

LAB USE ONLY
WORK ORDER #:
KATAHDIN PROJECT MANAGER
REMARKS:
SHIPPING INFO: ☐ FED EX ☐ UPS ☐ CLIENT
AIRBILL NO:
TEMP°C ☐ TEMP BLANK ☐ INTACT ☐ NOT INTACT

ANALYSIS AND CONTAINER TYPE PRESERVATIVES

*	Sample Description	Date / Time coll'd	Matrix	No. of Cntrs.	VOCs by 8260 VOAs w HCL	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	F ☐Y
	BN-14-EP-MW-NASB-212	4/7/99/1611	WATER	3	X										
	BN-14-EP-MW205	4/8/99/0954	WATER	3	X										
	BN-14-EP-MW105A	4/8/99/1114	H_2O	3	X										
	BN-14-EP-MW207A	4/8/99/1141	H_2O	3	X										
	BN-14-EP-MW331	4/8/99/1233	H_2O	3	X										
	BN-14-EP-P106	4/8/99/1235	H_2O	3	X										
	BN-14-EP-MW308	4/8/99/1420	H_2O	6	X										
	BN-14-EP-MWXD3	4/8/99/—	H_2O	3	X										
	BN-14-EP-P111	4/8/99/1534	H_2O	3	X										
	BN-14-EP-MW309B	4/8/99/1559	H_2O	3	X										
	BN-TRIP 2	4/7/99/1611	H_2O	3	X										
	BN-14-EP-MW334	4/8/99/1017	H_2O	3	X										
	BN-14-EP-MW1104	4/9/99/0905	H_2O	3	X										
	BN-14-EP-MW330	4/9/99/1333	H_2O	3	X										
		/													
		/													

COMMENTS: Send full data package to Newburgh. Send Form 1s and COC to Sue Chase in Brunsw
Sample BN-14-EP-MW-NASB212 ends first SDG. Second SDG for Eastern Plume is BN-14-EP-MW205 star
with sample BN-14-EP-MW205 and ends with BN-14-EP-MW330.

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
Brian Anderson	4/9/99 1515	B. Mag			
Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
			4/9/99 1630		

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1912-1
SDG: BN14EPEW01
Report Date: 5/3/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/19/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BW-14-EP-EW01	AQ	4/9/99	4/9/99	4/19/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	JB0.7	ug/L	1.0	1.0	1.0
ACETONE	<5	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	4	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	15	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	36	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	38	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	7	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: B, J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1912-1
SDG: BN14EPEW01
Report Date: 5/3/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/19/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BW-14-EP-EW01	AQ	4/9/99	4/9/99	4/19/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	92	%	1.0		
TOLUENE-D8	96	%	1.0		
P-BROMOFLUOROBENZENE	93	%	1.0		
1,2-DICHLOROETHANE-D4	86	%	1.0		

Report Notes: B, J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1912-3
SDG: BN14EPEW01
Report Date: 5/3/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/21/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-EP-EW02	AQ	4/9/99	4/9/99	4/21/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	JB0.7	ug/L	1.0	1.0	1.0
ACETONE	<5	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	5	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	10	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	8	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	20	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: B, J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1912-3
SDG: BN14EPEW01
Report Date: 5/3/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/21/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-EP-EW02	AQ	4/9/99	4/9/99	4/21/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	114	%	1.0		
TOLUENE-D8	113	%	1.0		
P-BROMOFLUOROBENZENE	104	%	1.0		
1,2-DICHLOROETHANE-D4	111	%	1.0		

Report Notes: B, J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1912-2
SDG: BN14EPEW01
Report Date: 5/3/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/19/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-EP-EW02A	AQ	4/9/99	4/9/99	4/19/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	B4	ug/L	1.0	1.0	1.0
ACETONE	<5	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	130	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	29	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	9	ug/L	1.0	1.0	1.0
CHLOROFORM	J0.6	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	3	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	E1000	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	E340	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	1	ug/L	1.0	1.0	1.0
BENZENE	J0.9	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	12	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: B, J, E

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1912-2
SDG: BN14EPEW01
Report Date: 5/3/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/19/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-EP-EW02A	AQ	4/9/99	4/9/99	4/19/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	94	%	1.0		
TOLUENE-D8	96	%	1.0		
P-BROMOFLUOROBENZENE	94	%	1.0		
1,2-DICHLOROETHANE-D4	89	%	1.0		

Report Notes: B, J, E

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1912-2DL
SDG: BN14EPEW01
Report Date: 5/3/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/20/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-EP-EW02A	AQ	4/9/99	4/9/99	4/20/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<20	ug/L	10	20	2.0
BROMOMETHANE	<20	ug/L	10	20	2.0
VINYL CHLORIDE	<20	ug/L	10	20	2.0
CHLOROETHANE	<20	ug/L	10	20	2.0
METHYLENE CHLORIDE	JB8	ug/L	10	10	1.0
ACETONE	<50	ug/L	10	50	5
CARBON DISULFIDE	<10	ug/L	10	10	1.0
1,1-DICHLOROETHENE	130	ug/L	10	10	1.0
1,1-DICHLOROETHANE	33	ug/L	10	10	1.0
TOTAL 1,2-DICHLOROETHENE	J7	ug/L	10	10	1.0
CHLOROFORM	<10	ug/L	10	10	1.0
1,2-DICHLOROETHANE	J6	ug/L	10	10	1.0
2-BUTANONE	<50	ug/L	10	50	5
1,1,1-TRICHLOROETHANE	1200	ug/L	10	10	1.0
CARBON TETRACHLORIDE	<10	ug/L	10	10	1.0
BROMODICHLOROMETHANE	<10	ug/L	10	10	1.0
1,2-DICHLOROPROPANE	<10	ug/L	10	10	1.0
CIS-1,3-DICHLOROPROPENE	<10	ug/L	10	10	1.0
TRICHLOROETHENE	350	ug/L	10	10	1.0
DIBROMOCHLOROMETHANE	<10	ug/L	10	10	1.0
1,1,2-TRICHLOROETHANE	<10	ug/L	10	10	1.0
BENZENE	<10	ug/L	10	10	1.0
TRANS-1,3-DICHLOROPROPENE	<10	ug/L	10	10	1.0
BROMOFORM	<10	ug/L	10	10	1.0
4-METHYL-2-PENTANONE	<30	ug/L	10	30	3
2-HEXANONE	<40	ug/L	10	40	4
TETRACHLOROETHENE	12	ug/L	10	10	1.0
1,1,2,2-TETRACHLOROETHANE	<10	ug/L	10	10	1.0
TOLUENE	<10	ug/L	10	10	1.0
CHLOROBENZENE	<10	ug/L	10	10	1.0
ETHYLBENZENE	<10	ug/L	10	10	1.0
STYRENE	<10	ug/L	10	10	1.0
TOTAL XYLENES	<10	ug/L	10	10	1.0

Report Notes: B, J, O-2

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1912-2DL
SDG: BN14EPEW01
Report Date: 5/3/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/20/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-EP-EW02A	AQ	4/9/99	4/9/99	4/20/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<10	ug/L	10	10	1.0
1,3-DICHLOROBENZENE	<10	ug/L	10	10	1.0
1,4-DICHLOROBENZENE	<10	ug/L	10	10	1.0
DIBROMOFLUOROMETHANE	118	%	10		
TOLUENE-D8	113	%	10		
P-BROMOFLUOROBENZENE	96	%	10		
1,2-DICHLOROETHANE-D4	115	%	10		

Report Notes: B, J, O-2

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1912-4
SDG: BN14EPEW01
Report Date: 5/3/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/19/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-EP-EW04	AQ	4/9/99	4/9/99	4/19/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	B1	ug/L	1.0	1.0	1.0
ACETONE	<5	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	34	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	22	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	67	ug/L	1.0	1.0	1.0
CHLOROFORM	3	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	J0.7	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	E360	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	150	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	3	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: B, J, E

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1912-4
SDG: BN14EPEW01
Report Date: 5/3/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/19/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-EP-EW04	AQ	4/9/99	4/9/99	4/19/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	93	%	1.0		
TOLUENE-D8	97	%	1.0		
P-BROMOFLUOROBENZENE	94	%	1.0		
1,2-DICHLOROETHANE-D4	87	%	1.0		

Report Notes: B, J, E

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1912-4DL
SDG: BN14EPEW01
Report Date: 5/3/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/20/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-EP-EW04	AQ	4/9/99	4/9/99	4/20/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<10	ug/L	5.0	10	2.0
BROMOMETHANE	<10	ug/L	5.0	10	2.0
VINYL CHLORIDE	<10	ug/L	5.0	10	2.0
CHLOROETHANE	<10	ug/L	5.0	10	2.0
METHYLENE CHLORIDE	JB3	ug/L	5.0	5	1.0
ACETONE	<25	ug/L	5.0	25	5
CARBON DISULFIDE	<5	ug/L	5.0	5	1.0
1,1-DICHLOROETHENE	31	ug/L	5.0	5	1.0
1,1-DICHLOROETHANE	24	ug/L	5.0	5	1.0
TOTAL 1,2-DICHLOROETHENE	56	ug/L	5.0	5	1.0
CHLOROFORM	J5	ug/L	5.0	5	1.0
1,2-DICHLOROETHANE	<5	ug/L	5.0	5	1.0
2-BUTANONE	<25	ug/L	5.0	25	5
1,1,1-TRICHLOROETHANE	380	ug/L	5.0	5	1.0
CARBON TETRACHLORIDE	<5	ug/L	5.0	5	1.0
BROMODICHLOROMETHANE	<5	ug/L	5.0	5	1.0
1,2-DICHLOROPROPANE	<5	ug/L	5.0	5	1.0
CIS-1,3-DICHLOROPROPENE	<5	ug/L	5.0	5	1.0
TRICHLOROETHENE	140	ug/L	5.0	5	1.0
DIBROMOCHLOROMETHANE	<5	ug/L	5.0	5	1.0
1,1,2-TRICHLOROETHANE	<5	ug/L	5.0	5	1.0
BENZENE	<5	ug/L	5.0	5	1.0
TRANS-1,3-DICHLOROPROPENE	<5	ug/L	5.0	5	1.0
BROMOFORM	<5	ug/L	5.0	5	1.0
4-METHYL-2-PENTANONE	<15	ug/L	5.0	15	3
2-HEXANONE	<20	ug/L	5.0	20	4
TETRACHLOROETHENE	J2	ug/L	5.0	5	1.0
1,1,2,2-TETRACHLOROETHANE	<5	ug/L	5.0	5	1.0
TOLUENE	<5	ug/L	5.0	5	1.0
CHLOROBENZENE	<5	ug/L	5.0	5	1.0
ETHYLBENZENE	<5	ug/L	5.0	5	1.0
STYRENE	<5	ug/L	5.0	5	1.0
TOTAL XYLENES	<5	ug/L	5.0	5	1.0

Report Notes: B, J, O-2

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1912-4DL
SDG: BN14EPEW01
Report Date: 5/3/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/20/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-EP-EW04	AQ	4/9/99	4/9/99	4/20/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<5	ug/L	5.0	5	1.0
1,3-DICHLOROBENZENE	<5	ug/L	5.0	5	1.0
1,4-DICHLOROBENZENE	<5	ug/L	5.0	5	1.0
DIBROMOFLUOROMETHANE	122	%	5.0		
TOLUENE-D8	110	%	5.0		
P-BROMOFLUOROBENZENE	95	%	5.0		
1,2-DICHLOROETHANE-D4	118	%	5.0		

Report Notes: B, J, O-2

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1912-5
SDG: BN14EPEW01
Report Date: 5/3/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/19/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-EP-EW05	AQ	4/9/99	4/9/99	4/19/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	JB0.8	ug/L	1.0	1.0	1.0
ACETONE	<5	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	17	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	14	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	11	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	J0.6	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	130	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	56	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	J0.8	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: B, J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1912-5
SDG: BN14EPEW01
Report Date: 5/3/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/19/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-EP-EW05	AQ	4/9/99	4/9/99	4/19/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	93	%	1.0		
TOLUENE-D8	98	%	1.0		
P-BROMOFLUOROBENZENE	97	%	1.0		
1,2-DICHLOROETHANE-D4	86	%	1.0		

Report Notes: B, J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1911-10
SDG: BN14EPMW205
Report Date: 4/30/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/19/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-TRIP2	AQ	4/7/99	4/9/99	4/19/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	2	ug/L	1.0	1.0	1.0
ACETONE	J3	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1911-10
SDG: BN14EPMW205
Report Date: 4/30/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/19/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-TRIP2	AQ	4/7/99	4/9/99	4/19/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	94	%	1.0		
TOLUENE-D8	99	%	1.0		
P-BROMOFLUOROBENZENE	96	%	1.0		
1,2-DICHLOROETHANE-D4	92	%	1.0		

Report Notes: J

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KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1912-6
SDG: BN14EPEW01
Report Date: 5/3/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/19/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-EP-TP001	AQ	4/9/99	4/9/99	4/19/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	B1	ug/L	1.0	1.0	1.0
ACETONE	<5	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	45	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	16	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	22	ug/L	1.0	1.0	1.0
CHLOROFORM	J0.9	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	E390	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	140	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	13	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: B, J, E

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1912-6
SDG: BN14EPEW01
Report Date: 5/3/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/19/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-EP-TP001	AQ	4/9/99	4/9/99	4/19/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	94	%	1.0		
TOLUENE-D8	97	%	1.0		
P-BROMOFLUOROBENZENE	95	%	1.0		
1,2-DICHLOROETHANE-D4	86	%	1.0		

Report Notes: B, J, E

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1912-6DL
SDG: BN14EPEW01
Report Date: 5/3/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/20/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-EP-TP001	AQ	4/9/99	4/9/99	4/20/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<10	ug/L	5.0	10	2.0
BROMOMETHANE	<10	ug/L	5.0	10	2.0
VINYL CHLORIDE	<10	ug/L	5.0	10	2.0
CHLOROETHANE	<10	ug/L	5.0	10	2.0
METHYLENE CHLORIDE	JB3	ug/L	5.0	5	1.0
ACETONE	<25	ug/L	5.0	25	5
CARBON DISULFIDE	<5	ug/L	5.0	5	1.0
1,1-DICHLOROETHENE	41	ug/L	5.0	5	1.0
1,1-DICHLOROETHANE	15	ug/L	5.0	5	1.0
TOTAL 1,2-DICHLOROETHENE	18	ug/L	5.0	5	1.0
CHLOROFORM	J2	ug/L	5.0	5	1.0
1,2-DICHLOROETHANE	<5	ug/L	5.0	5	1.0
2-BUTANONE	<25	ug/L	5.0	25	5
1,1,1-TRICHLOROETHANE	390	ug/L	5.0	5	1.0
CARBON TETRACHLORIDE	<5	ug/L	5.0	5	1.0
BROMODICHLOROMETHANE	<5	ug/L	5.0	5	1.0
1,2-DICHLOROPROPANE	<5	ug/L	5.0	5	1.0
CIS-1,3-DICHLOROPROPENE	<5	ug/L	5.0	5	1.0
TRICHLOROETHENE	120	ug/L	5.0	5	1.0
DIBROMOCHLOROMETHANE	<5	ug/L	5.0	5	1.0
1,1,2-TRICHLOROETHANE	<5	ug/L	5.0	5	1.0
BENZENE	<5	ug/L	5.0	5	1.0
TRANS-1,3-DICHLOROPROPENE	<5	ug/L	5.0	5	1.0
BROMOFORM	<5	ug/L	5.0	5	1.0
4-METHYL-2-PENTANONE	<15	ug/L	5.0	15	3
2-HEXANONE	<20	ug/L	5.0	20	4
TETRACHLOROETHENE	10	ug/L	5.0	5	1.0
1,1,2,2-TETRACHLOROETHANE	<5	ug/L	5.0	5	1.0
TOLUENE	<5	ug/L	5.0	5	1.0
CHLOROBENZENE	<5	ug/L	5.0	5	1.0
ETHYLBENZENE	<5	ug/L	5.0	5	1.0
STYRENE	<5	ug/L	5.0	5	1.0
TOTAL XYLENES	<5	ug/L	5.0	5	1.0

Report Notes: B, J, O-2

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1912-6DL
SDG: BN14EPEW01
Report Date: 5/3/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/20/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-EP-TP001	AQ	4/9/99	4/9/99	4/20/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<5	ug/L	5.0	5	1.0
1,3-DICHLOROBENZENE	<5	ug/L	5.0	5	1.0
1,4-DICHLOROBENZENE	<5	ug/L	5.0	5	1.0
DIBROMOFLUOROMETHANE	119	%	5.0		
TOLUENE-D8	112	%	5.0		
P-BROMOFLUOROBENZENE	96	%	5.0		
1,2-DICHLOROETHANE-D4	119	%	5.0		

Report Notes: B, J, O-2

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1912-7
SDG: BN14EPEW01
Report Date: 5/3/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/15/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-TE-TP022	AQ	4/9/99	4/9/99	4/15/99	JSS	5030	JSS

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	JB0.8	ug/L	1.0	1.0	1.0
ACETONE	<5	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	3	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	J0.7	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	E310	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: B, J, E

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1912-7
SDG: BN14EPEW01
Report Date: 5/3/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/15/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-TE-TP022	AQ	4/9/99	4/9/99	4/15/99	JSS	5030	JSS

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	107	%	1.0		
TOLUENE-D8	114	%	1.0		
P-BROMOFLUOROBENZENE	95	%	1.0		
1,2-DICHLOROETHANE-D4	99	%	1.0		

Report Notes: B, J, E

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1912-7DL
SDG: BN14EPEW01
Report Date: 5/3/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/17/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-TE-TP022	AQ	4/9/99	4/9/99	4/17/99	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<4	ug/L	2.0	4	2.0
BROMOMETHANE	<4	ug/L	2.0	4	2.0
VINYL CHLORIDE	<4	ug/L	2.0	4	2.0
CHLOROETHANE	<4	ug/L	2.0	4	2.0
METHYLENE CHLORIDE	<2	ug/L	2.0	2	1.0
ACETONE	<10	ug/L	2.0	10	5
CARBON DISULFIDE	<2	ug/L	2.0	2	1.0
1,1-DICHLOROETHENE	<2	ug/L	2.0	2	1.0
1,1-DICHLOROETHANE	4	ug/L	2.0	2	1.0
TOTAL 1,2-DICHLOROETHENE	<2	ug/L	2.0	2	1.0
CHLOROFORM	<2	ug/L	2.0	2	1.0
1,2-DICHLOROETHANE	<2	ug/L	2.0	2	1.0
2-BUTANONE	<10	ug/L	2.0	10	5
1,1,1-TRICHLOROETHANE	280	ug/L	2.0	2	1.0
CARBON TETRACHLORIDE	<2	ug/L	2.0	2	1.0
BROMODICHLOROMETHANE	<2	ug/L	2.0	2	1.0
1,2-DICHLOROPROPANE	<2	ug/L	2.0	2	1.0
CIS-1,3-DICHLOROPROPENE	<2	ug/L	2.0	2	1.0
TRICHLOROETHENE	<2	ug/L	2.0	2	1.0
DIBROMOCHLOROMETHANE	<2	ug/L	2.0	2	1.0
1,1,2-TRICHLOROETHANE	<2	ug/L	2.0	2	1.0
BENZENE	<2	ug/L	2.0	2	1.0
TRANS-1,3-DICHLOROPROPENE	<2	ug/L	2.0	2	1.0
BROMOFORM	<2	ug/L	2.0	2	1.0
4-METHYL-2-PENTANONE	<6	ug/L	2.0	6	3
2-HEXANONE	<8	ug/L	2.0	8	4
TETRACHLOROETHENE	<2	ug/L	2.0	2	1.0
1,1,2,2-TETRACHLOROETHANE	<2	ug/L	2.0	2	1.0
TOLUENE	<2	ug/L	2.0	2	1.0
CHLOROBENZENE	<2	ug/L	2.0	2	1.0
ETHYLBENZENE	<2	ug/L	2.0	2	1.0
STYRENE	<2	ug/L	2.0	2	1.0
TOTAL XYLENES	<2	ug/L	2.0	2	1.0

Report Notes: O-2

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1912-7DL
SDG: BN14EPEW01
Report Date: 5/3/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/17/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-TE-TP022	AQ	4/9/99	4/9/99	4/17/99	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<2	ug/L	2.0	2	1.0
1,3-DICHLOROBENZENE	<2	ug/L	2.0	2	1.0
1,4-DICHLOROBENZENE	<2	ug/L	2.0	2	1.0
DIBROMOFLUOROMETHANE	82	%	2.0		
TOLUENE-D8	94	%	2.0		
P-BROMOFLUOROBENZENE	96	%	2.0		
1,2-DICHLOROETHANE-D4	80	%	2.0		

Report Notes: O-2

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1912-8
SDG: BN14EPEW01
Report Date: 5/3/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/15/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-EP-TEXD1	AQ	4/9/99	4/9/99	4/15/99	JSS	5030	JSS

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	JB0.8	ug/L	1.0	1.0	1.0
ACETONE	<5	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	4	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	J0.7	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	E320	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: B, J, E

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1912-8
SDG: BN14EPEW01
Report Date: 5/3/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/15/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-EP-TEXD1	AQ	4/9/99	4/9/99	4/15/99	JSS	5030	JSS

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	110	%	1.0		
TOLUENE-D8	107	%	1.0		
P-BROMOFLUOROBENZENE	94	%	1.0		
1,2-DICHLOROETHANE-D4	100	%	1.0		

Report Notes: B, J, E

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1912-8DL
SDG: BN14EPEW01
Report Date: 5/3/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/17/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-EP-TEXD1	AQ	4/9/99	4/9/99	4/17/99	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<4	ug/L	2.0	4	2.0
BROMOMETHANE	<4	ug/L	2.0	4	2.0
VINYL CHLORIDE	<4	ug/L	2.0	4	2.0
CHLOROETHANE	<4	ug/L	2.0	4	2.0
METHYLENE CHLORIDE	<2	ug/L	2.0	2	1.0
ACETONE	<10	ug/L	2.0	10	5
CARBON DISULFIDE	<2	ug/L	2.0	2	1.0
1,1-DICHLOROETHENE	<2	ug/L	2.0	2	1.0
1,1-DICHLOROETHANE	4	ug/L	2.0	2	1.0
TOTAL 1,2-DICHLOROETHENE	<2	ug/L	2.0	2	1.0
CHLOROFORM	J1	ug/L	2.0	2	1.0
1,2-DICHLOROETHANE	<2	ug/L	2.0	2	1.0
2-BUTANONE	<10	ug/L	2.0	10	5
1,1,1-TRICHLOROETHANE	320	ug/L	2.0	2	1.0
CARBON TETRACHLORIDE	<2	ug/L	2.0	2	1.0
BROMODICHLOROMETHANE	<2	ug/L	2.0	2	1.0
1,2-DICHLOROPROPANE	<2	ug/L	2.0	2	1.0
CIS-1,3-DICHLOROPROPENE	<2	ug/L	2.0	2	1.0
TRICHLOROETHENE	<2	ug/L	2.0	2	1.0
DIBROMOCHLOROMETHANE	<2	ug/L	2.0	2	1.0
1,1,2-TRICHLOROETHANE	<2	ug/L	2.0	2	1.0
BENZENE	<2	ug/L	2.0	2	1.0
TRANS-1,3-DICHLOROPROPENE	<2	ug/L	2.0	2	1.0
BROMOFORM	<2	ug/L	2.0	2	1.0
4-METHYL-2-PENTANONE	<6	ug/L	2.0	6	3
2-HEXANONE	<8	ug/L	2.0	8	4
TETRACHLOROETHENE	<2	ug/L	2.0	2	1.0
1,1,2,2-TETRACHLOROETHANE	<2	ug/L	2.0	2	1.0
TOLUENE	<2	ug/L	2.0	2	1.0
CHLOROBENZENE	<2	ug/L	2.0	2	1.0
ETHYLBENZENE	<2	ug/L	2.0	2	1.0
STYRENE	<2	ug/L	2.0	2	1.0
TOTAL XYLENES	<2	ug/L	2.0	2	1.0

Report Notes: J, O-2

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1912-8DL
SDG: BN14EPEW01
Report Date: 5/3/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/17/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-EP-TEXD1	AQ	4/9/99	4/9/99	4/17/99	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<2	ug/L	2.0	2	1.0
1,3-DICHLOROBENZENE	<2	ug/L	2.0	2	1.0
1,4-DICHLOROBENZENE	<2	ug/L	2.0	2	1.0
DIBROMOFLUOROMETHANE	89	%	2.0		
TOLUENE-D8	95	%	2.0		
P-BROMOFLUOROBENZENE	97	%	2.0		
1,2-DICHLOROETHANE-D4	87	%	2.0		

Report Notes: J, O-2

Appendix C.4

Surface Water Samples
Sites 1 and 3

APPENDIX C.4

SAMPLE KEY - SITES 1 AND 3
NAVAL AIR STATION, BRUNSWICK, MAINE

Sample Designation	Sample Station
Surface Water Samples	
SI-SW04	SW-04
SI-SW07	SW-07
SI-SW08	SW-08
SI-SW09	SW-09
SI-SWXD1	SW-09 (DUP)
SW-NASB-001	SW-15
SW-NASB-007	SW-16
Trip Blank	
TRIP-3	TRIP-3
Equipment Rinsate Blank	
S1-QS002	QS-002
Source Water Blank	
EP-QD001	QD-001

Katahdin
ANALYTICAL SERVICES
340 County Road No. 5
P.O. Box 720
Westbrook, ME 04098
Tel: (207) 874-2400
Fax: (207) 775-4029

CHAIN of CUSTODY

PLEASE PRINT IN PEN

Client: EA Engineering
Contact: Peter Nimmer
Phone #: (914) 565-8100
Fax #: (914) 565-8203
Address: 3 Washington Center
City: Newburgh
State: NY
Zip Code: 12550
Purchase Order #:
Proj. Name / No.: LTMP-14/29600.47
Katahdin Quote #:
Bill (if different than above):
Address:
Sampler (Print / Sign): Kim Shutty / Kim Shutty
Copies To: See Comments

LAB USE ONLY
WORK ORDER #: WP1994
KATAHDIN PROJECT MANAGER:
REMARKS:
SHIPPING INFO: ☐ FED EX ☐ UPS ☐ CLIENT
AIRBILL NO:
TEMP°C: ☐ TEMP BLANK ☐ INTACT ☐ NOT INTACT

ANALYSIS AND CONTAINER TYPE PRESERVATIVES

*	Sample Description	Date / Time coll'd	Matrix	No. of Cntrs.	VOC by 8260 HCl - VOAS	TAI Elements HNO3 - by 6010	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N
	BN-14-EP-SW12 MS/MSD	4/13/99 / 0850	water	6	X											
	BN-14-EP-SWXD1	4/13/99 / —	water	3	X											
	BN-14-EP-SW11	4/13/99 / 0935	water	3	X											
	BN-14-EP-SW14	4/13/99 / 0955	water	3	X											
	BN-14-EP-SW13	4/13/99 / 1025	water	3	X											
	BN-14-EP-SW10	4/13/99 / 1055	water	3	X											
	BN-14-EP-QD001	4/12/99 / 1710	water	4	X	X										
	BN-14-EP-QS001	4/12/99 / 1720	water	4	X	X										
		/														
		/														
		/														
		/														
		/														
		/														
		/														
		/														

COMMENTS: 911 Samples in SDG-# BN-14-EP-SW12. SDG Complete. Full data pack should be sent to Newburgh. Send form 1s & COC to Sue Chase in Brunswick Me. TRIP blank - BNTrip3 included with samples.

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
[signature]	4/14/99 1645	[signature] 4/14/99 1645	[signature] 4-14-99 1745	04-14-99 1745	[signature]
Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)

Katahdin ANALYTICAL SERVICES
340 County Road No. 5
P.O. Box 720
Westbrook, ME 04098
Tel: (207) 874-2400
Fax: (207) 775-4029

CHAIN of CUSTODY

PLEASE PRINT IN PEN

Client	Contact	Phone #	Fax #
EA Engineering	Pete Nimmer	(914) 565-8100	(914) 565-8203

Address	City	State	Zip Code
3 Washington Center	Newburgh	NY	12550

Purchase Order #: Proj. Name / No.: LTMP-T4 / 29600.47 Katahdin Quote #:

Bill (if different than above): Address:

Sampler (Print / Sign): Kim Shutty / Kim Shutty Copies To: See Comments

LAB USE ONLY — WORK ORDER #: WP1993 - * KATAHDIN PROJECT MANAGER:

REMARKS:

SHIPPING INFO: ☐ FED EX ☐ UPS ☐ CLIENT

AIRBILL NO:

TEMP°C ☐ TEMP BLANK ☐ INTACT ☐ NOT INTACT

ANALYSIS AND CONTAINER TYPE PRESERVATIVES

*	Sample Description	Date / Time coll'd	Matrix	No. of Cntrs.	VOC by 8260 HCl - VOAS (Filt. ☐Y ☒N)	Tal Elements by 6010 HNO3 (Filt. ☐Y ☐N)	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N
	BN-14-S1-SW09 MS/MSD	4/13/99 / 1210	water	8	X	X								
	BN-14-S1-SWXD1	4/13/99 / —	water	4	X	X								
	BN-14-S1-SW08	4/13/99 / 1235	water	4	X	X								
	BN-14-S1-SW04	4/13/99 / 1310	water	4	X	X								
	BN-14-S1-LTSW01	4/13/99 / 1325	water	4	X	X								
	BN-14-S1-LTSW03	4/13/99 / 1355	water	4	X	X								
	BN-14-S1-LTSW04	4/13/99 / 1425	water	4	X	X								
	BN-14-S1-LTSW05	4/13/99 / 1455	water	4	X	X								
	BN-14-S1-QS002	4/13/99 / 1605	water	4	X	X								
	BN-14-S1-SW07	4/13/99 / 1250	water	4	X	X								
		/												
		/												
		/												
		/												
		/												
		/												

COMMENTS: all samples in SDG# BN-14-S1-SW09. SDG Complete. Send complete data package to Newburgh. Send form 1s ~~to~~ COC to ~~Newburgh~~ Sue Chase in Brunswick ME. TRIP blank TRN-TRIP3 with samples.

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
[signature]	4/14/99 1645	[signature] 4-14-99 1645	[signature] 4-14-99 1745	04-14-99 1745	[signature]
Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)

Katahdin ANALYTICAL SERVICES
340 County Road No. 5
P.O. Box 720
Westbrook, ME 04098
Tel: (207) 874-2400
Fax: (207) 775-4029

CHAIN of CUSTODY

PLEASE PRINT IN PEN

Client: EA Engineering
Contact: Pete Nimmer
Phone #: (914) 565-8100
Fax #: (914) 565-820
Address: 3 Washington Center
City: Newburgh
State: NY
Zip Code: 12550
Purchase Order #:
Proj. Name / No.: LTMP-14 / 29600.47
Katahdin Quote #:
Bill (if different than above):
Address:
Sampler (Print / Sign): Kim Shutty / Kim Shutty
Copies To: See Comments

LAB USE ONLY
WORK ORDER #: WP1992
KATAHDIN PROJECT MANAGER:

REMARKS:

SHIPPING INFO: ☐ FED EX ☐ UPS ☐ CLIENT
AIRBILL NO:
TEMP°C: ☐ TEMP BLANK ☐ INTACT ☐ NOT INTACT

ANALYSIS AND CONTAINER TYPE PRESERVATIVES

*	Sample Description	Date / Time coll'd	Matrix	No. of Cntrs.	Filt. ☐Y ☒N: VOC by 8260 HCL-VOAs	Filt. ☐Y ☐N: Tal Elements HNO3-BN 6010	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N
	BN-14-S9-MW072	4/12/99 / 1059	WATER	3	+									
	BN-14-S9-MW075	4/12/99 / 1055	WATER	3	+									
	BN-14-S9-MW074	4/12/99 / 1157	water	3	+									
	BN-14-S9-MW076	4/12/99 / 1250	water	3	+									
	BN-14-S9-MW227	4/12/99 / 1456	water	3	+									
	BN-14-S9-MW080	4/12/99 / 1606	water	3	X									
	BN-14-S9-MW22	4/12/99 / 1649	water	3	X									
	BN-14-S9-MW-71	4/12/99 / 1602	water	3	X									
	BN-14-S9-MW069 MS/MSD	4/13/99 / 0920	water	6	X	X								
	BN-14-S9-MWXD1	4/13/99 / —	water	3	X	X								
	BN-14-S9-MW079	4/13/99 / 1034	water	1		X								
	BN-14-S9-MW070	4/13/99 / 1431	water	1		X								
	BN-TRIP 3	4/12/99 / 1059	water	2	X									
		/												
		/												
		/												

COMMENTS: all samples in SDG# BN-14-S9-MW072. SDG complete. Send full data package to Newburgh. Send form 1s ~~to~~ COCs to Sue Chase in Brunswick.

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
[signature]	4/14/99 1645	B Mz 4/14/99 1642	B Mz 4/14/99 1745	04-14-99 1745	[signature]
Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1993-4
SDG: BN14S1SW09
Report Date: 5/6/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/26/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-S1-SW04	AQ	4/13/99	4/14/99	4/26/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	<1	ug/L	1.0	1.0	1.0
ACETONE	<5	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1993-4
SDG: BN14S1SW09
Report Date: 5/6/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/26/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-S1-SW04	AQ	4/13/99	4/14/99	4/26/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	116	%	1.0		
TOLUENE-D8	107	%	1.0		
P-BROMOFLUOROBENZENE	89	%	1.0		
1,2-DICHLOROETHANE-D4	109	%	1.0		

Report Notes:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services
Client Field ID: BN-14-S1-SW04
Matrix: WATER
SDG Name: BN14S1SW09
Percent Solids: 0.00
Lab Sample ID: WP1993-004

Concentration Units (ug/L or mg/Kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF
7429-90-5	ALUMINUM	108			P	1
7440-36-0	ANTIMONY	2.6	B		P	1
7440-38-2	ARSENIC	2.07	U		P	1
7440-39-3	BARIUM	23.8		E	P	1
7440-41-7	BERYLLIUM	0.21	U		P	1
7440-43-9	CADMIUM	0.42	B		P	1
7440-70-2	CALCIUM	6360			P	1
7440-47-3	CHROMIUM	2.0	B		P	1
7440-48-4	COBALT	0.64	U		P	1
7440-50-8	COPPER	2.8	B		P	1
7439-89-6	IRON	549			P	1
7439-92-1	LEAD	1.6	B		P	1
7439-95-4	MAGNESIUM	1450			P	1
7439-96-5	MANGANESE	121			P	1
7439-97-6	MERCURY	0.03	B		CV	1
7440-02-0	NICKEL	2.5	B		P	1
7440-09-7	POTASSIUM	1680			P	1
7782-49-2	SELENIUM	2.57	U		P	1
7440-22-4	SILVER	1.0	B		P	1
7440-23-5	SODIUM	16300			P	1
7440-28-0	THALLIUM	4.49	U		P	1
7440-62-2	VANADIUM	0.62	U		P	1
7440-66-6	ZINC	12.8	B		P	1

Color Before: COLORLESS
Clarity Before: CLEAR
Color After: COLORLESS
Clarity After: CLEAR
Comments:

FORM I - IN

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1993-10
SDG: BN14S1SW09
Report Date: 5/6/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/26/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-S1-SW07	AQ	4/13/99	4/14/99	4/26/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	<1	ug/L	1.0	1.0	1.0
ACETONE	<5	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1993-10
SDG: BN14S1SW09
Report Date: 5/6/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/26/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-S1-SW07	AQ	4/13/99	4/14/99	4/26/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	125	%	1.0		
TOLUENE-D8	112	%	1.0		
P-BROMOFLUOROBENZENE	86	%	1.0		
1,2-DICHLOROETHANE-D4	122	%	1.0		

Report Notes:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services
Client Field ID: BN-14-S1-SW07
Matrix: WATER
SDG Name: BN14S1SW09
Percent Solids: 0.00
Lab Sample ID: WP1993-010

Concentration Units (ug/L or mg/Kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF
7429-90-5	ALUMINUM	88.4	B		P	1
7440-36-0	ANTIMONY	1.81	U		P	1
7440-38-2	ARSENIC	2.07	U		P	1
7440-39-3	BARIUM	23.5		E	P	1
7440-41-7	BERYLLIUM	0.21	U		P	1
7440-43-9	CADMIUM	0.26	U		P	1
7440-70-2	CALCIUM	6590			P	1
7440-47-3	CHROMIUM	3.9	B		P	1
7440-48-4	COBALT	1.4	B		P	1
7440-50-8	COPPER	2.9	B		P	1
7439-89-6	IRON	576			P	1
7439-92-1	LEAD	2.6	B		P	1
7439-95-4	MAGNESIUM	1500			P	1
7439-96-5	MANGANESE	134			P	1
7439-97-6	MERCURY	0.03	B		CV	1
7440-02-0	NICKEL	2.0	B		P	1
7440-09-7	POTASSIUM	1650			P	1
7782-49-2	SELENIUM	2.57	U		P	1
7440-22-4	SILVER	2.6	B		P	1
7440-23-5	SODIUM	16500			P	1
7440-28-0	THALLIUM	4.49	U		P	1
7440-62-2	VANADIUM	0.62	U		P	1
7440-66-6	ZINC	7.0	B		P	1

Color Before: COLORLESS
Clarity Before: CLEAR
Color After: COLORLESS
Clarity After: CLEAR
Comments:

FORM I - IN

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1993-3
SDG: BN14S1SW09
Report Date: 5/6/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/26/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-S1-SW08	AQ	4/13/99	4/14/99	4/26/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	<1	ug/L	1.0	1.0	1.0
ACETONE	<5	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1993-3
SDG: BN14S1SW09
Report Date: 5/6/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/26/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-S1-SW08	AQ	4/13/99	4/14/99	4/26/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	112	%	1.0		
TOLUENE-D8	105	%	1.0		
P-BROMOFLUOROBENZENE	88	%	1.0		
1,2-DICHLOROETHANE-D4	110	%	1.0		

Report Notes:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services
Client Field ID: BN-14-S1-SW08
Matrix: WATER
SDG Name: BN14S1SW09
Percent Solids: 0.00
Lab Sample ID: WP1993-003

Concentration Units (ug/L or mg/Kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF
7429-90-5	ALUMINUM	69.3	B		P	1
7440-36-0	ANTIMONY	1.81	U		P	1
7440-38-2	ARSENIC	2.07	U		P	1
7440-39-3	BARIUM	22.6		E	P	1
7440-41-7	BERYLLIUM	0.21	U		P	1
7440-43-9	CADMIUM	0.26	U		P	1
7440-70-2	CALCIUM	6370			P	1
7440-47-3	CHROMIUM	0.84	B		P	1
7440-48-4	COBALT	0.64	U		P	1
7440-50-8	COPPER	2.0	B		P	1
7439-89-6	IRON	514			P	1
7439-92-1	LEAD	1.1	B		P	1
7439-95-4	MAGNESIUM	1460			P	1
7439-96-5	MANGANESE	130			P	1
7439-97-6	MERCURY	0.02	B		CV	1
7440-02-0	NICKEL	1.1	B		P	1
7440-09-7	POTASSIUM	1670			P	1
7782-49-2	SELENIUM	2.57	U		P	1
7440-22-4	SILVER	1.7	B		P	1
7440-23-5	SODIUM	15900			P	1
7440-28-0	THALLIUM	4.49	U		P	1
7440-62-2	VANADIUM	0.62	U		P	1
7440-66-6	ZINC	6.1	B		P	1

Color Before: COLORLESS
Clarity Before: CLEAR
Color After: COLORLESS
Clarity After: CLEAR
Comments:

FORM I - IN

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1993-1
SDG: BN14S1SW09
Report Date: 5/6/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/26/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-S1-SW09	AQ	4/13/99	4/14/99	4/26/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	<1	ug/L	1.0	1.0	1.0
ACETONE	<5	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1993-1
SDG: BN14S1SW09
Report Date: 5/6/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/26/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-S1-SW09	AQ	4/13/99	4/14/99	4/26/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	107	%	1.0		
TOLUENE-D8	118	%	1.0		
P-BROMOFLUOROBENZENE	95	%	1.0		
1,2-DICHLOROETHANE-D4	104	%	1.0		

Report Notes:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services
Client Field ID: BN-14-S1-SW09
Matrix: WATER
SDG Name: BN14S1SW09
Percent Solids: 0.00
Lab Sample ID: WP1993-001

Concentration Units (ug/L or mg/Kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF
7429-90-5	ALUMINUM	20.93	U		P	1
7440-36-0	ANTIMONY	1.81	U		P	1
7440-38-2	ARSENIC	2.07	U		P	1
7440-39-3	BARIUM	21.5		E	P	1
7440-41-7	BERYLLIUM	0.21	U		P	1
7440-43-9	CADMIUM	0.26	U		P	1
7440-70-2	CALCIUM	6350			P	1
7440-47-3	CHROMIUM	0.59	U		P	1
7440-48-4	COBALT	0.64	U		P	1
7440-50-8	COPPER	3.0	B		P	1
7439-89-6	IRON	450			P	1
7439-92-1	LEAD	2.6	B		P	1
7439-95-4	MAGNESIUM	1440			P	1
7439-96-5	MANGANESE	132			P	1
7439-97-6	MERCURY	0.14	B		CV	1
7440-02-0	NICKEL	0.85	U		P	1
7440-09-7	POTASSIUM	1700			P	1
7782-49-2	SELENIUM	2.57	U		P	1
7440-22-4	SILVER	0.69	U		P	1
7440-23-5	SODIUM	15500			P	1
7440-28-0	THALLIUM	4.49	U		P	1
7440-62-2	VANADIUM	0.62	U		P	1
7440-66-6	ZINC	4.9	B		P	1

Color Before: COLORLESS
Clarity Before: CLEAR
Color After: COLORLESS
Clarity After: CLEAR
Comments:

FORM I - IN

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1993-2
SDG: BN14S1SW09
Report Date: 5/6/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/26/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-S1-SWXD1	AQ	4/13/99	4/14/99	4/26/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	<1	ug/L	1.0	1.0	1.0
ACETONE	<5	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1993-2
SDG: BN14S1SW09
Report Date: 5/6/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/26/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-S1-SWXD1	AQ	4/13/99	4/14/99	4/26/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	110	%	1.0		
TOLUENE-D8	105	%	1.0		
P-BROMOFLUOROBENZENE	90	%	1.0		
1,2-DICHLOROETHANE-D4	106	%	1.0		

Report Notes:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services
Client Field ID: BN-14-S1-SWXD1
Matrix: WATER
SDG Name: BN14S1SW09
Percent Solids: 0.00
Lab Sample ID: WP1993-002

Concentration Units (ug/L or mg/Kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF
7429-90-5	ALUMINUM	49.5	B		P	1
7440-36-0	ANTIMONY	1.81	U		P	1
7440-38-2	ARSENIC	2.07	U		P	1
7440-39-3	BARIUM	22.0		E	P	1
7440-41-7	BERYLLIUM	0.21	U		P	1
7440-43-9	CADMIUM	0.28	B		P	1
7440-70-2	CALCIUM	6180			P	1
7440-47-3	CHROMIUM	0.59	U		P	1
7440-48-4	COBALT	0.96	B		P	1
7440-50-8	COPPER	2.8	B		P	1
7439-89-6	IRON	477			P	1
7439-92-1	LEAD	1.09	U		P	1
7439-95-4	MAGNESIUM	1440			P	1
7439-96-5	MANGANESE	129			P	1
7439-97-6	MERCURY	0.03	B		CV	1
7440-02-0	NICKEL	1.8	B		P	1
7440-09-7	POTASSIUM	1640			P	1
7782-49-2	SELENIUM	2.57	U		P	1
7440-22-4	SILVER	1.0	B		P	1
7440-23-5	SODIUM	15300			P	1
7440-28-0	THALLIUM	4.49	U		P	1
7440-62-2	VANADIUM	0.62	U		P	1
7440-66-6	ZINC	6.1	B		P	1

Color Before: COLORLESS
Clarity Before: CLEAR
Color After: COLORLESS
Clarity After: CLEAR
Comments:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: -

Lab Number: WP1992-9
SDG: BN14S9MW072
Report Date: 5/6/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/24/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-TRIP3	AQ	4/12/99	4/14/99	4/24/99	JSS	5030	JSS

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	B2	ug/L	1.0	1.0	1.0
ACETONE	<5	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: B

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1992-9
SDG: BN14S9MW072
Report Date: 5/6/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/24/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-TRIP3	AQ	4/12/99	4/14/99	4/24/99	JSS	5030	JSS

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	114	%	1.0		
TOLUENE-D8	106	%	1.0		
P-BROMOFLUOROBENZENE	98	%	1.0		
1,2-DICHLOROETHANE-D4	110	%	1.0		

Report Notes: B

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1993-9
SDG: BN14S1SW09
Report Date: 5/6/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/26/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-S1-QS002	AQ	4/13/99	4/14/99	4/26/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	B4	ug/L	1.0	1.0	1.0
ACETONE	J2	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: B, J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1993-9
SDG: BN14S1SW09
Report Date: 5/6/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/26/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-S1-QS002	AQ	4/13/99	4/14/99	4/26/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	120	%	1.0		
TOLUENE-D8	108	%	1.0		
P-BROMOFLUOROBENZENE	87	%	1.0		
1,2-DICHLOROETHANE-D4	117	%	1.0		

Report Notes: B, J

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services
Client Field ID: BN-14-S1-QS002
Matrix: WATER
SDG Name: BN14S1SW09
Percent Solids: 0.00
Lab Sample ID: WP1993-009

Concentration Units (ug/L or mg/Kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF
7429-90-5	ALUMINUM	20.93	U		P	1
7440-36-0	ANTIMONY	1.81	U		P	1
7440-38-2	ARSENIC	2.07	U		P	1
7440-39-3	BARIUM	0.12	U	E	P	1
7440-41-7	BERYLLIUM	0.21	U		P	1
7440-43-9	CADMIUM	0.26	U		P	1
7440-70-2	CALCIUM	37.0	B		P	1
7440-47-3	CHROMIUM	1.3	B		P	1
7440-48-4	COBALT	0.64	U		P	1
7440-50-8	COPPER	2.1	B		P	1
7439-89-6	IRON	41.3	B		P	1
7439-92-1	LEAD	1.3	B		P	1
7439-95-4	MAGNESIUM	11.8	B		P	1
7439-96-5	MANGANESE	0.58	B		P	1
7439-97-6	MERCURY	0.02	U		CV	1
7440-02-0	NICKEL	0.85	U		P	1
7440-09-7	POTASSIUM	449.54	U		P	1
7782-49-2	SELENIUM	2.57	U		P	1
7440-22-4	SILVER	1.8	B		P	1
7440-23-5	SODIUM	82.8	B		P	1
7440-28-0	THALLIUM	4.49	U		P	1
7440-62-2	VANADIUM	0.62	U		P	1
7440-66-6	ZINC	1.1	B		P	1

Color Before: COLORLESS
Clarity Before: CLEAR
Color After: COLORLESS
Clarity After: CLEAR
Comments:

FORM I - IN

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1994-7
SDG: BN14EPSW12
Report Date: 5/25/99
PO No. : 29600.47.7504
Project: NASB LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/25/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-EP-QD001	AQ	4/12/99	4/14/99	4/25/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	B1	ug/L	1.0	1.0	1.0
ACETONE	<5	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1 0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1 0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1 0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: B

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1994-7
SDG: BN14EPSW12
Report Date: 5/25/99
PO No. : 29600.47.7504
Project: NASB LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/25/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-EP-QD001	AQ	4/12/99	4/14/99	4/25/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	98	%	1.0		
TOLUENE-D8	99	%	1.0		
P-BROMOFLUOROBENZENE	99	%	1.0		
1,2-DICHLOROETHANE-D4	98	%	1.0		

Report Notes: B

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** BN-14-EP-QD001

Matrix: WATER **SDG Name:** BN14EPSW12

Percent Solids: 0.00 **Lab Sample ID:** WP1994-007

Concentration Units (ug/L or mg/Kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF
7429-90-5	ALUMINUM	10.76	U		P	1
7440-36-0	ANTIMONY	1.81	U		P	1
7440-38-2	ARSENIC	2.07	U		P	1
7440-39-3	BARIUM	0.48	U		P	1
7440-41-7	BERYLLIUM	0.33	U		P	1
7440-43-9	CADMIUM	2.6	B		P	1
7440-70-2	CALCIUM	34.1	B		P	1
7440-47-3	CHROMIUM	4.31	U		P	1
7440-48-4	COBALT	4.45	U		P	1
7440-50-8	COPPER	1.62	U		P	1
7439-89-6	IRON	4.7	B		P	1
7439-92-1	LEAD	2.3	B		P	1
7439-95-4	MAGNESIUM	17.16	U		P	1
7439-96-5	MANGANESE	0.97	U		P	1
7439-97-6	MERCURY	0.02	U		CV	1
7440-02-0	NICKEL	13.21	U		P	1
7440-09-7	POTASSIUM	449.54	U		P	1
7782-49-2	SELENIUM	2.57	U		P	1
7440-22-4	SILVER	2.54	U		P	1
7440-23-5	SODIUM	69.9	B		P	1
7440-28-0	THALLIUM	4.49	U		P	1
7440-62-2	VANADIUM	3.58	U		P	1
7440-66-6	ZINC	0.48	U		P	1

Color Before: COLORLESS Clarity Before: CLEAR

Color After: COLORLESS Clarity After: CLEAR

Comments:

ANALYSIS REPORT

binax+nel

P.O. Box 788
Waterville, Maine 04903-0788

Administrative Offices
Phone: 207-873-7711
Fax: 207-873-7022
Customer Service
Phone: 800-244-8378
Fax: 207-873-7022

Attention: JON ZIEGRA
BRUNSWICK NAVAL AIR STATION
400 ORION ST NORTH
BRUNSWICK, ME 04011

Lab ID Number: AB15913
Project Number: AB040101
P.O. Number: N60087-99-RC-K580
Date Collected: 04/01/99 09:20 AM
DateReceived: 04/01/99 03:30 PM
Date Reported: 04/26/99

Sample Matrix: S-WATER
Sample Description: SW-NASB-001
Sample Type: GRAB

Parameter	Result	Unit	Detection Limit	Method	Date	Analyst
Pyrene	See Attached	ug/L	10	EPA 8270	04/09/99	VAM
Terphenyl-d14 (Surrogate)	See Attached	%	33	EPA 8270	04/09/99	VAM
Silver Total	<0.01	mg/L	0.01	EPA 6010	04/15/99	LMM
Aluminum Total	0.11	mg/L	0.02	EPA 6010	04/06/99	LMM
Arsenic Total	<0.002	mg/L	0.002	EPA 6010	04/15/99	LMM
Barium Total	0.03	mg/L	0.01	EPA 6010	04/06/99	LMM
Beryllium Total	<0.001	mg/L	0.001	EPA 6010	04/15/99	LMM
BOD 5 day	<2	mg/L	2	SM 5210B	04/02/99	SCL
Calcium Total	8.5	mg/L	0.5	EPA 6010	04/06/99	LMM
Cadmium Total	<0.001	mg/L	0.001	EPA 6010	04/15/99	LMM
Chlorine, Total Residual	<0.05	mg/L	0.05	SM 4500CLE	04/01/99	SCL
Cobalt Total	<0.012	mg/L	0.012	EPA 6010	04/15/99	LMM
COD	10	mg/L	10	SM 5220C	04/06/99	SCL
Specific Conductance	140	umhos/cm	1	EPA 120.1	04/01/99	MJG
Chromium Total	<0.01	mg/L	0.01	EPA 6010	04/06/99	LMM
Copper Total	<0.01	mg/L	0.01	EPA 6010	04/06/99	LMM
Dissolved Oxygen	11.4	mg/L	1	Measure	04/01/99	MJG
Iron Total	0.17	mg/L	0.01	EPA 6010	04/06/99	LMM
Mercury by Cold Vapor	<0.0002	mg/L	0.0002	EPA 245.1A	04/21/99	MMR
Potassium Total	2.1	mg/L	0.5	EPA 6010	04/06/99	LMM
Magnesium Total	1.9	mg/L	0.5	EPA 6010	04/06/99	LMM
Manganese Total	0.05	mg/L	0.01	EPA 6010	04/06/99	LMM
Sodium Total	20	mg/L	0.5	EPA 6010	04/06/99	LMM
Ammonia	<0.2	mg/L	0.2	EPA 350.1	04/08/99	CLD
Nickel Total	<0.01	mg/L	0.01	EPA 6010	04/06/99	LMM
Nitrite	<0.05	mg/L	0.05	EPA 353.2	04/02/99	CLD
Nitrate	0.99	mg/L	0.5	EPA 353.2	04/02/99	CLD
Lead Total	<0.002	mg/L	0.002	EPA 6010	04/15/99	LMM
pH	6.2	stu	2	EPA 150.1	04/01/99	MJG
Phosphorus, Total	<0.05	mg/L	0.05	EPA 365.2	04/06/99	CDB
Antimony Total	<0.005	mg/L	0.005	EPA 6010	04/15/99	LMM
Selenium Total	<0.003	mg/L	0.003	EPA 6010	04/15/99	LMM

Reviewed By: James E. Curlett **Review Date:** 4/26/99

James E. Curlett, Lab Manager

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binax-nel ANALYSIS REPORT

P.O. Box 788
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Administrative Offices
Phone: 207-873-7711
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Customer Service
Phone: 800-244-8
Fax: 207-873-7022

Attention: JON ZIEGRA
BRUNSWICK NAVAL AIR STATION
400 ORION ST NORTH
BRUNSWICK, ME 04011

Lab ID Number: AB15913
Project Number: AB040101
P.O. Number: N60087-99-RC-K580
Date Collected: 04/01/99 09:20 AM
DateReceived: 04/01/99 03:30 PM
Date Reported: 04/26/99

Sample Matrix: S-WATER
Sample Description: SW-NASB-001
Sample Type: GRAB

Parameter	Result	Unit	Detection Limit	Method	Date	Analyst
Total Dissolved Solids	95	mg/L	1	EPA 160.1	04/06/99	DRH
Temperature	6.4	Degrees C	1	EPA 170.1	04/01/99	MJG
Thallium Total	<0.01	mg/L	0.01	EPA 6010	04/15/99	LMM
Total Suspended Solids	<1	mg/L	1	EPA 160.2	04/05/99	DRH
Vanadium Total	<0.012	mg/L	0.012	EPA 6010	04/15/99	LMM
Zinc Total	0.02	mg/L	0.01	EPA 6010	04/06/99	LMM

Comments:

Reviewed By: James E. Curlett, Lab Manager

Review Date: 4/26/99

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ANALYSIS REPORT

binax+nel

Box 788
Waterville, Maine 04903-0788

Administrative Offices
Phone: 207-873-7711
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Customer Service
Phone: 800-244-8378
Fax: 207-873-7022

Attention: JON ZIEGRA
BRUNSWICK NAVAL AIR STATION
400 ORION ST NORTH
BRUNSWICK, ME 04011

Lab ID Number: AB15917
Project Number: AB040101
P.O. Number: N60087-99-RC-K580
Date Collected: 04/01/99 10:15 AM
DateReceived: 04/01/99 03:30 PM
Date Reported: 04/26/99

Sample Matrix: S-WATER
Sample Description: SW-NASB-007
Sample Type: GRAB

Parameter	Result	Unit	Detection Limit	Method	Date	Analyst
Pyrene	See Attached	ug/L	10	EPA 8270	04/14/99	VAM
Terphenyl-d14 (Surrogate)	See Attached	%	33	EPA 8270	04/14/99	VAM
Silver Total	<0.01	mg/L	0.01	EPA 6010	04/15/99	LMM
Aluminum Total	0.13	mg/L	0.02	EPA 6010	04/06/99	LMM
Arsenic Total	<0.002	mg/L	0.002	EPA 6010	04/15/99	LMM
Barium Total	0.02	mg/L	0.01	EPA 6010	04/06/99	LMM
Beryllium Total	<0.001	mg/L	0.001	EPA 6010	04/15/99	LMM
BOD 5 day	<2	mg/L	2	SM 5210B	04/02/99	SCL
Calcium Total	7.8	mg/L	0.5	EPA 6010	04/06/99	LMM
Cadmium Total	<0.001	mg/L	0.001	EPA 6010	04/15/99	LMM
Chlorine, Total Residual	<0.05	mg/L	0.05	SM 4500CLE	04/01/99	SCL
Cobalt Total	<0.012	mg/L	0.012	EPA 6010	04/15/99	LMM
COD	12	mg/L	10	SM 5220C	04/06/99	SCL
Specific Conductance	130	umhos/cm	1	EPA 120.1	04/01/99	MJG
Chromium Total	<0.01	mg/L	0.01	EPA 6010	04/06/99	LMM
Copper Total	<0.01	mg/L	0.01	EPA 6010	04/06/99	LMM
Dissolved Oxygen	11.6	mg/L	1	Measure	04/01/99	MJG
Iron Total	0.40	mg/L	0.01	EPA 6010	04/06/99	LMM
Mercury by Cold Vapor	<0.0002	mg/L	0.0002	EPA 245.1A	04/21/99	MMR
Potassium Total	1.9	mg/L	1	EPA 6010	04/06/99	LMM
Magnesium Total	1.6	mg/L	1	EPA 6010	04/06/99	LMM
Manganese Total	0.08	mg/L	0.01	EPA 6010	04/06/99	LMM
Sodium Total	16	mg/L	1	EPA 6010	04/06/99	LMM
Ammonia	<0.2	mg/L	0.2	EPA 350.1	04/08/99	CLD
Nickel Total	<0.01	mg/L	0.01	EPA 6010	04/06/99	LMM
Nitrite	<0.05	mg/L	0.05	EPA 353.2	04/02/99	CLD
Nitrate	1.0	mg/L	0.5	EPA 353.2	04/02/99	CLD
Lead Total	<0.002	mg/L	0.002	EPA 6010	04/15/99	LMM
pH	6.2	stu	2	EPA 150.1	04/01/99	MJG
Phosphorus, Total	<0.05	mg/L	0.05	EPA 365.2	04/06/99	CDB
Antimony Total	<0.005	mg/L	0.005	EPA 6010	04/15/99	LMM
Selenium Total	<0.003	mg/L	0.003	EPA 6010	04/15/99	LMM

Reviewed By: James E. Curlett **Review Date:** 4/26/99

James E. Curlett, Lab Manager

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P.O. Box 788
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Customer Service
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Fax: 207-873-7022

Attention: JON ZIEGRA
BRUNSWICK NAVAL AIR STATION
400 ORION ST NORTH
BRUNSWICK, ME 04011

Lab ID Number: AB15917
Project Number: AB040101
P.O. Number: N60087-99-RC-K580
Date Collected: 04/01/99 10:15 AM
DateReceived: 04/01/99 03:30 PM
Date Reported: 04/26/99

Sample Matrix: S-WATER
Sample Description: SW-NASB-007
Sample Type: GRAB

Parameter	Result	Unit	Detection Limit	Method	Date	Analyst
Total Dissolved Solids	83	mg/L	1	EPA 160.1	04/06/99	DRH
Temperature	6.8	Degrees C	1	EPA 170.1	04/01/99	MJG
Thallium Total	<0.01	mg/L	0.01	EPA 6010	04/15/99	LMM
Total Suspended Solids	<1	mg/L	1	EPA 160.2	04/05/99	DRH
Vanadium Total	<0.012	mg/L	0.012	EPA 6010	04/15/99	LMM
Zinc Total	0.02	mg/L	0.01	EPA 6010	04/06/99	LMM

* *The method reagent blank associated with this sample contained 0.013 mg/L zinc which is just over the 0.01 mg/L reporting limit. This indicates possible low level zinc contamination.*

Comments:

Please see the specific analysis comment(s) above

Reviewed By: James E. Curlett
James E. Curlett, Lab Manager

Review Date: 4/26/99

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Appendix C.5

Surface Water Samples
Eastern Plume

APPENDIX C.5

SAMPLE KEY – EASTERN PLUME
NAVAL AIR STATION, BRUNSWICK, MAINE

Sample Designation	Sample Station
Surface Water Samples	
EP-SW10	SW-10
EP-SW11	SW-11
EP-SW12	SW-12
EP-SWXD1	SW-12 (DUP)
EP-SW13	SW-13
EP-SW14	SW-14
Trip Blank	
TRIP-3	TRIP-3
Equipment Rinsate Blank	
EP-QS001	QS-001
Source Water Blank	
EP-QD001	QD-001

Katahdin ANALYTICAL SERVICES
340 County Road No. 5
P.O. Box 720
Westbrook, ME 04098
Tel: (207) 874-2400
Fax: (207) 775-4029

CHAIN of CUSTODY

PLEASE PRINT IN PEN

Client: EA Engineering
Contact: Peter Nimmer
Phone #: (914) 565-8100
Fax #: (914) 565-8205
Address: 3 Washington Center
City: Newburgh
State: NY
Zip Code: 12550
Purchase Order #:
Proj. Name / No.: LTMP-14/29600.47
Katahdin Quote #:
Bill (if different than above):
Address:
Sampler (Print / Sign): Kim Shutty / Kim Shutty
Copies To: See Comments

LAB USE ONLY
WORK ORDER #: WP1994
KATAHDIN PROJECT MANAGER:

REMARKS:

SHIPPING INFO: ☐ FED EX ☐ UPS ☐ CLIENT
AIRBILL NO:
TEMP°C ☐ TEMP BLANK ☐ INTACT ☐ NOT INTACT

ANALYSIS AND CONTAINER TYPE PRESERVATIVES

*	Sample Description	Date / Time coll'd	Matrix	No. of Cntrs.	VOC by 8260 HCl - VOAS	TAI Elements HNO3 - by 6010	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N
	BN-14-EP-SW12 MS/MSD	4/13/99 / 0850	water	6	X											
	BN-14-EP-SWXD1	4/13/99 / —	water	3	X											
	BN-14-EP-SW11	4/13/99 / 0935	water	3	X											
	BN-14-EP-SW14	4/13/99 / 0955	water	3	X											
	BN-14-EP-SW13	4/13/99 / 1025	water	3	X											
	BN-14-EP-SW10	4/13/99 / 1055	water	3	X											
	BN-14-EP-QD001	4/12/99 / 1710	water	4	X	X										
	BN-14-EP-QS001	4/12/99 / 1720	water	4	X	X										
		/														
		/														
		/														
		/														
		/														
		/														
		/														
		/														

COMMENTS: all samples in SDG-# BN-14-EP-SW12. SDG Complete. Full data pack should be sent to Newburgh. Send form 1s & COC to Sue Chase in Brunswick Me. TB blank - BNTrip3 included with samples.

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
[signature]	4/14/99 1645	B M 4/14/99 1645	B M 4-14-99 1745	04-14-99 1745	[signature]
Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)

Katahdin ANALYTICAL SERVICES
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P.O. Box 720
Westbrook, ME 04098
Tel: (207) 874-2400
Fax: (207) 775-4029

CHAIN of CUSTODY

PLEASE PRINT IN PEN

Client: EA Engineering
Contact: Pete Nimmer
Phone #: (914) 565-8100
Fax #: (914) 565-820
Address: 3 Washington Center
City: Newburgh
State: NY
Zip Code: 12550
Purchase Order #:
Proj. Name / No.: LTMP-14 / 29600.47
Katahdin Quote #:
Bill (if different than above):
Address:
Sampler (Print / Sign): Kim Shutty / Kim Shutty
Copies To: See Comments

LAB USE ONLY
WORK ORDER #: WP1992
KATAHDIN PROJECT MANAGER:

REMARKS:

SHIPPING INFO: ☐ FED EX ☐ UPS ☐ CLIENT
AIRBILL NO:
TEMP°C ☐ TEMP BLANK ☐ INTACT ☐ NOT INTACT

ANALYSIS AND CONTAINER TYPE PRESERVATIVES

*	Sample Description	Date / Time coll'd	Matrix	No. of Cntrs.	Filt. ☐Y☒N VOC by 8260 HCL-VOAs	Filt. ☐Y☐N Tal Elements HNO3 - by 6010	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N
	BN-14-S9-MW072	4/12/99 / 1059	water	3	+									
	BN-14-S9-MW075	4/12/99 / 1055	water	3	+									
	BN-14-S9-MW074	4/12/99 / 1157	water	3	+									
	BN-14-S9-MW076	4/12/99 / 1250	water	3	+									
	BN-14-S9-MW227	4/12/99 / 1456	water	3	+									
	BN-14-S9-MW080	4/12/99 / 1606	water	3	X									
	BN-14-S9-MW22	4/12/99 / 1649	water	3	X									
	BN-14-S9-MW-71	4/12/99 / 1602	water	3	X									
	BN-14-S9-MW069 MS/MSD	4/13/99 / 0920	water	6	X	X								
	BN-14-S9-MWXD1	4/13/99 / —	water	3	X	X								
	BN-14-S9-MW079	4/13/99 / 1034	water	1		X								
	BN-14-S9-MW070	4/13/99 / 1431	water	1		X								
	BN-TRIP 3	4/12/99 / 1059	water	2	X									
		/												
		/												
		/												

COMMENTS all samples in SDG# BN-14-S9-MW072. SDG complete. Send full data package to Newburgh. Send form 1s ~~to~~ copies to Sue Chase in Brunswick.

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
[signature]	4/14/99 1645	B M 4/14/99 1645	B M 4/14/99 1745	04-14-99 1745	[signature]
Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1994-6
SDG: BN14EPSW12
Report Date: 5/25/99
PO No. : 29600.47.7504
Project: NASB LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/25/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-EP-SW10	AQ	4/13/99	4/14/99	4/25/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	<1	ug/L	1.0	1.0	1.0
ACETONE	<5	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1994-6
SDG: BN14EPSW12
Report Date: 5/25/99
PO No. : 29600.47.7504
Project: NASB LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/25/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-EP-SW10	AQ	4/13/99	4/14/99	4/25/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	95	%	1.0		
TOLUENE-D8	100	%	1.0		
P-BROMOFLUOROBENZENE	98	%	1.0		
1,2-DICHLOROETHANE-D4	95	%	1.0		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1994-3
SDG: BN14EPSW12
Report Date: 5/25/99
PO No. : 29600.47.7504
Project: NASB LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/27/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-EP-SW11	AQ	4/13/99	4/14/99	4/27/99	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	<1	ug/L	1.0	1.0	1.0
ACETONE	<5	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1994-3
SDG: BN14EPSW12
Report Date: 5/25/99
PO No. : 29600.47.7504
Project: NASB LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/27/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-EP-SW11	AQ	4/13/99	4/14/99	4/27/99	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	104	%	1.0		
TOLUENE-D8	105	%	1.0		
P-BROMOFLUOROBENZENE	103	%	1.0		
1,2-DICHLOROETHANE-D4	97	%	1.0		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1994-1
SDG: BN14EPSW12
Report Date: 5/25/99
PO No. : 29600.47.7504
Project: NASB LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/26/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-EP-SW12	AQ	4/13/99	4/14/99	4/26/99	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	JB0.5	ug/L	1.0	1.0	1.0
ACETONE	<5	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: B, J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1994-1
SDG: BN14EPSW12
Report Date: 5/25/99
PO No. : 29600.47.7504
Project: NASB LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/26/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-EP-SW12	AQ	4/13/99	4/14/99	4/26/99	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	103	%	1.0		
TOLUENE-D8	106	%	1.0		
P-BROMOFLUOROBENZENE	102	%	1.0		
1,2-DICHLOROETHANE-D4	94	%	1.0		

Report Notes: B, J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1994-2
SDG: BN14EPSW12
Report Date: 5/25/99
PO No. : 29600.47.7504
Project: NASB LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/26/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-EP-SWXD1	AQ	4/13/99	4/14/99	4/26/99	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	<1	ug/L	1.0	1.0	1.0
ACETONE	<5	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1994-2
SDG: BN14EPSW12
Report Date: 5/25/99
PO No. : 29600.47.7504
Project: NASB LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/26/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-EP-SWXD1	AQ	4/13/99	4/14/99	4/26/99	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	104	%	1.0		
TOLUENE-D8	105	%	1.0		
P-BROMOFLUOROBENZENE	100	%	1.0		
1,2-DICHLOROETHANE-D4	94	%	1.0		

Report Notes:

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KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1994-5
SDG: BN14EPSW12
Report Date: 5/25/99
PO No. : 29600.47.7504
Project: NASB LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/25/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-EP-SW13	AQ	4/13/99	4/14/99	4/25/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	<1	ug/L	1.0	1.0	1.0
ACETONE	<5	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1994-5
SDG: BN14EPSW12
Report Date: 5/25/99
PO No. : 29600.47.7504
Project: NASB LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/25/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-EP-SW13	AQ	4/13/99	4/14/99	4/25/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	98	%	1.0		
TOLUENE-D8	102	%	1.0		
P-BROMOFLUOROBENZENE	99	%	1.0		
1,2-DICHLOROETHANE-D4	96	%	1.0		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1994-4
SDG: BN14EPSW12
Report Date: 5/25/99
PO No. : 29600.47.7504
Project: NASB LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/27/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-EP-SW14	AQ	4/13/99	4/14/99	4/27/99	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	<1	ug/L	1.0	1.0	1.0
ACETONE	J2	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1994-4
SDG: BN14EPSW12
Report Date: 5/25/99
PO No. : 29600.47.7504
Project: NASB LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/27/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-EP-SW14	AQ	4/13/99	4/14/99	4/27/99	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	105	%	1.0		
TOLUENE-D8	106	%	1.0		
P-BROMOFLUOROBENZENE	103	%	1.0		
1,2-DICHLOROETHANE-D4	99	%	1.0		

Report Notes: J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: -

Lab Number: WP1992-9
SDG: BN14S9MW072
Report Date: 5/6/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/24/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-TRIP3	AQ	4/12/99	4/14/99	4/24/99	JSS	5030	JSS

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	B2	ug/L	1.0	1.0	1.0
ACETONE	<5	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: B

0000022

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1992-9
SDG: BN14S9MW072
Report Date: 5/6/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/24/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-TRIP3	AQ	4/12/99	4/14/99	4/24/99	JSS	5030	JSS

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	114	%	1.0		
TOLUENE-D8	106	%	1.0		
P-BROMOFLUOROBENZENE	98	%	1.0		
1,2-DICHLOROETHANE-D4	110	%	1.0		

Report Notes: B

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1994-8
SDG: BN14EPSW12
Report Date: 5/25/99
PO No. : 29600.47.7504
Project: NASB LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/25/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-EP-QS001	AQ	4/12/99	4/14/99	4/25/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	JB0.9	ug/L	1.0	1.0	1.0
ACETONE	<5	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: B, J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1994-8
SDG: BN14EPSW12
Report Date: 5/25/99
PO No. : 29600.47.7504
Project: NASB LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/25/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-EP-QS001	AQ	4/12/99	4/14/99	4/25/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	98	%	1.0		
TOLUENE-D8	100	%	1.0		
P-BROMOFLUOROBENZENE	97	%	1.0		
1,2-DICHLOROETHANE-D4	99	%	1.0		

Report Notes: B, J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1994-7
SDG: BN14EPSW12
Report Date: 5/25/99
PO No. : 29600.47.7504
Project: NASB LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/25/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-EP-QD001	AQ	4/12/99	4/14/99	4/25/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	B1	ug/L	1.0	1.0	1.0
ACETONE	<5	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: B

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1994-7
SDG: BN14EPSW12
Report Date: 5/25/99
PO No. : 29600.47.7504
Project: NASB LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/25/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-EP-QD001	AQ	4/12/99	4/14/99	4/25/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	98	%	1.0		
TOLUENE-D8	99	%	1.0		
P-BROMOFLUOROBENZENE	99	%	1.0		
1,2-DICHLOROETHANE-D4	98	%	1.0		

Report Notes: B

Appendix C.6

Leachate Station Seep Samples
Sites 1 and 3

APPENDIX C.6

SAMPLE KEY - SITES 1 AND 3
NAVAL AIR STATION, BRUNSWICK, MAINE

Sample Designation	Sample Station
Leachate Seep Samples	
SI-LTSW01	SEEP-01
SI-LTSW03	SEEP-03
SI-LTSW04	SEEP-04
SI-LTSW05	SEEP-05
Trip Blank	
TRIP-3	TRIP-3
Equipment Rinsate Blank	
S1-QS002	QS-002
Source Water Blank	
S1-QD001	QD-001

Katahdin ANALYTICAL SERVICES
340 County Road No. 5
P.O. Box 720
Westbrook, ME 04098
Tel: (207) 874-2400
Fax: (207) 775-4029

CHAIN of CUSTODY

PLEASE PRINT IN PEN

Client: EA Engineering
Contact: Peter Nimmer
Phone #: (914) 565-8100
Fax #: (914) 565-820
Address: 3 Washington Center
City: Newburgh
State: NY
Zip Code: 12550
Purchase Order #:
Proj. Name / No.: LTMP-14/29600.47
Katahdin Quote #:
Bill (if different than above):
Address:
Sampler (Print / Sign): Kim Shutty / Kim Shutty
Copies To: See Comments

LAB USE ONLY
WORK ORDER #: WP1994 -
KATAHDIN PROJECT MANAGER:

REMARKS:

SHIPPING INFO: ☐ FED EX ☐ UPS ☐ CLIENT
AIRBILL NO:
TEMP°C ☐ TEMP BLANK ☐ INTACT ☐ NOT INTACT

ANALYSIS AND CONTAINER TYPE PRESERVATIVES

*	Sample Description	Date / Time coll'd	Matrix	No. of Cntrs.	VOC by 8260 HCl - VOAS	TAI Elements HNO3 - by 6010	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N
	BN-14-EP-SW12 MS/MSD	4/13/99 / 0850	water	6	X											
	BN-14-EP-SWXD1	4/13/99 / —	water	3	X											
	BN-14-EP-SW11	4/13/99 / 0935	water	3	X											
	BN-14-EP-SW14	4/13/99 / 0955	water	3	X											
	BN-14-EP-SW13	4/13/99 / 1025	water	3	X											
	BN-14-EP-SW10	4/13/99 / 1055	water	3	X											
	BN-14-EP-QD001	4/12/99 / 1710	water	4	X	X										
	BN-14-EP-QS001	4/12/99 / 1720	water	4	X	X										
		/														
		/														
		/														
		/														
		/														
		/														
		/														
		/														

COMMENTS 911 Samples in SDG-# BN-14-EP-SW12, SDG Complete. Full data pack should be sent to Newburgh. Send form 1s & COC to Sue Chase in Brunswick Me. TB blank - BNTrip3 included with samples.

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
[signature]	4/14/99 1645	B M 4/14/99 1645	B M 4-14-99 1745	04-14-99 1745	[signature]
Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)

Katahdin ANALYTICAL SERVICES
340 County Road No. 5
P.O. Box 720
Westbrook, ME 04098
Tel: (207) 874-2400
Fax: (207) 775-4029

CHAIN of CUSTODY

PLEASE PRINT IN PEN

Client: EA Engineering
Contact: Pete Nimmer
Phone #: (914) 565-8100
Fax #: (914) 565-8202
Address: 3 Washington Center
City: Newburgh
State: NY
Zip Code: 12550
Purchase Order #:
Proj. Name / No.: LTMP-T4 / 29600.47
Katahdin Quote #:
Bill (if different than above):
Address:
Sampler (Print / Sign): Kim Shutty / Kim Shutty
Copies To: See Comments

LAB USE ONLY
WORK ORDER #: WP1993
KATAHDIN PROJECT MANAGER:

REMARKS:

SHIPPING INFO: ☐ FED EX ☐ UPS ☐ CLIENT
AIRBILL NO:
TEMP°C: ☐ TEMP BLANK ☐ INTACT ☐ NOT INTACT

ANALYSIS AND CONTAINER TYPE PRESERVATIVES

*	Sample Description	Date / Time coll'd	Matrix	No. of Cntrs.	VOC by 8260 HCl - VOAS	Tal Elements by 6010 HNO3	Filt. O Y N	Filt. O Y N	Filt. O Y N	Filt. O Y N	Filt. O Y N	Filt. O Y N	Filt. O Y N	Filt. O Y N	Filt. O Y N	Filt. O Y N
	BN-14-S1-SW09 MS/MSD	4/13/99 / 1210	water	8	X	X										
	BN-14-S1-SWXD1	4/13/99 / —	water	4	X	X										
	BN-14-S1-SW08	4/13/99 / 1235	water	4	X	X										
	BN-14-S1-SW04	4/13/99 / 1310	water	4	X	X										
	BN-14-S1-LTSW01	4/13/99 / 1325	water	4	X	X										
	BN-14-S1-LTSW03	4/13/99 / 1355	water	4	X	X										
	BN-14-S1-LTSW04	4/13/99 / 1425	water	4	X	X										
	BN-14-S1-LTSW05	4/13/99 / 1455	water	4	X	X										
	BN-14-S1-QS002	4/13/99 / 1605	water	4	X	X										
	BN-14-S1-SW07	4/13/99 / 1250	water	4	X	X										
		/														
		/														
		/														
		/														
		/														
		/														

COMMENTS: all Samples in SDG# BN-14-S1-SW09. SDG Complete. Send complete data package to Newburgh. Send form 1s ~~to~~ COC to ~~Newburgh~~ Sue Chase in Brunswick ME. TRIP blank TRN-TRIP3 with samples.

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
[signature]	4/14/99 1645	[signature] 4-14-99 1645	[signature] 4-14-99 1745	04-14-99 1745	[signature]
Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)

Katahdin ANALYTICAL SERVICES
340 County Road No. 5
P.O. Box 720
Westbrook, ME 04098
Tel: (207) 874-2400
Fax: (207) 775-4029

CHAIN of CUSTODY

PLEASE PRINT IN PEN

Client: EA Engineering
Contact: Pete Nimmer
Phone #: (914) 565-8100
Fax #: (914) 565-820

Address: 3 Washington Center
City: Newburgh
State: NY
Zip Code: 12550

Purchase Order #:
Proj. Name / No.: LTMP-14 / 29600.47
Katahdin Quote #:

Bill (if different than above):
Address:

Sampler (Print / Sign): Kim Shutty / Kim Shutty
Copies To: See Comments

LAB USE ONLY
WORK ORDER #: WP1992
KATAHDIN PROJECT MANAGER:

REMARKS:

SHIPPING INFO: ☐ FED EX ☐ UPS ☐ CLIENT
AIRBILL NO:
TEMP°C ☐ TEMP BLANK ☐ INTACT ☐ NOT INTACT

ANALYSIS AND CONTAINER TYPE PRESERVATIVES

*	Sample Description	Date / Time coll'd	Matrix	No. of Cntrs.	Filt. ☐Y☒N VOC by 8260 HCL-VOAs	Filt. ☐Y☐N Tal Elements HNO3-by 6010	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N
	BN-14-S9-MW072	4/12/99 / 1059	WATER	3	+									
	BN-14-S9-MW075	4/12/99 / 1055	WATER	3	+									
	BN-14-S9-MW074	4/12/99 / 1157	water	3	+									
	BN-14-S9-MW076	4/12/99 / 1250	water	3	+									
	BN-14-S9-MW227	4/12/99 / 1456	water	3	+									
	BN-14-S9-MW080	4/12/99 / 1606	water	3	X									
	BN-14-S9-MW22	4/12/99 / 1649	water	3	X									
	BN-14-S9-MW-71	4/12/99 / 1602	water	3	X									
	BN-14-S9-MS/MSD MW069	4/13/99 / 0922	water	6	X	X								
	BN-14-S9-MWXD1	4/13/99 / —	water	3	X	X								
	BN-14-S9-MW079	4/13/99 / 1034	water	1		X								
	BN-14-S9-MW070	4/13/99 / 1431	water	1		X								
	BN-TRIP 3	4/12/99 / 1059	water	2	X									
		/												
		/												
		/												

COMMENTS all samples in SDG# BN-14-S9-MW072, SDG complete. Send full data package to Newburgh. Send form 1s ~~to~~ COCs to Sue Chase in Brunswick.

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
[signature]	4/14/99 1645	B Mz 4/14/99 1645	B Mz 4/14/99 1745	04-14-99 1745	[signature]
Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1993-5
SDG: BN14S1SW09
Report Date: 5/6/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/26/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-S1-LTSW01	AQ	4/13/99	4/14/99	4/26/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	<1	ug/L	1.0	1.0	1.0
ACETONE	<5	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	2	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	2	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1993-5
SDG: BN14S1SW09
Report Date: 5/6/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/26/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-S1-LTSW01	AQ	4/13/99	4/14/99	4/26/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	117	%	1.0		
TOLUENE-D8	107	%	1.0		
P-BROMOFLUOROBENZENE	86	%	1.0		
1,2-DICHLOROETHANE-D4	114	%	1.0		

Report Notes:

1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services | Client Field ID: BN-14-S1-LTSW01

Matrix: WATER | SDG Name: BN14S1SW09

Percent Solids: 0.00 | Lab Sample ID: WP1993-005

Concentration Units (ug/L or mg/Kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF
7429-90-5	ALUMINUM	77.3	B		P	1
7440-36-0	ANTIMONY	1.81	U		P	1
7440-38-2	ARSENIC	2.07	U		P	1
7440-39-3	BARIUM	47.0		E	P	1
7440-41-7	BERYLLIUM	0.21	U		P	1
7440-43-9	CADMIUM	0.26	U		P	1
7440-70-2	CALCIUM	106000			P	1
7440-47-3	CHROMIUM	0.59	U		P	1
7440-48-4	COBALT	8.8	B		P	1
7440-50-8	COPPER	0.55	U		P	1
7439-89-6	IRON	1720			P	1
7439-92-1	LEAD	1.09	U		P	1
7439-95-4	MAGNESIUM	8280			P	1
7439-96-5	MANGANESE	118			P	1
7439-97-6	MERCURY	0.05	B		CV	1
7440-02-0	NICKEL	9.8	B		P	1
7440-09-7	POTASSIUM	7910			P	1
7782-49-2	SELENIUM	2.9	B		P	1
7440-22-4	SILVER	0.69	U		P	1
7440-23-5	SODIUM	16200			P	1
7440-28-0	THALLIUM	4.49	U		P	1
7440-62-2	VANADIUM	0.62	U		P	1
7440-66-6	ZINC	13.4	B		P	1

Color Before: COLORLESS | Clarity Before: CLEAR

Color After: COLORLESS | Clarity After: CLEAR

Comments:

FORM I - IN

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1993-6
SDG: BN14S1SW09
Report Date: 5/6/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/26/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-S1-LTSW03	AQ	4/13/99	4/14/99	4/26/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	JB0.5	ug/L	1.0	1.0	1.0
ACETONE	J4	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	2	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	19	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	J0.6	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	J0.8	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	12	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: B, J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1993-6
SDG: BN14S1SW09
Report Date: 5/6/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/26/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-S1-LTSW03	AQ	4/13/99	4/14/99	4/26/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	118	%	1.0		
TOLUENE-D8	107	%	1.0		
P-BROMOFLUOROBENZENE	88	%	1.0		
1,2-DICHLOROETHANE-D4	118	%	1.0		

Report Notes: B, J

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services
Client Field ID: BN-14-S1-LTSW03
Matrix: WATER
SDG Name: BN14S1SW09
Percent Solids: 0.00
Lab Sample ID: WP1993-006

Concentration Units (ug/L or mg/Kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF
7429-90-5	ALUMINUM	9360			P	1
7440-36-0	ANTIMONY	26.4	B		P	5
7440-38-2	ARSENIC	182			P	5
7440-39-3	BARIUM	1350		E	P	5
7440-41-7	BERYLLIUM	4.1	B		P	1
7440-43-9	CADMIUM	1.30	U		P	5
7440-70-2	CALCIUM	130000			P	1
7440-47-3	CHROMIUM	44.4			P	1
7440-48-4	COBALT	105			P	1
7440-50-8	COPPER	13.8	B		P	5
7439-89-6	IRON	1130000			P	20
7439-92-1	LEAD	115			P	5
7439-95-4	MAGNESIUM	13800			P	1
7439-96-5	MANGANESE	100000			P	20
7439-97-6	MERCURY	3.1			CV	1
7440-02-0	NICKEL	44.1			P	1
7440-09-7	POTASSIUM	5190			P	1
7782-49-2	SELENIUM	32.8	B		P	5
7440-22-4	SILVER	12.7	B		P	1
7440-23-5	SODIUM	20400			P	1
7440-28-0	THALLIUM	22.45	U		P	5
7440-62-2	VANADIUM	56.6	B		P	5
7440-66-6	ZINC	35.0			P	1

Color Before: BROWN
Clarity Before: CLOUDY
Color After: ORANGE
Clarity After: CLOUDY
Comments:

FORM I - IN

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1993-7
SDG: BN14S1SW09
Report Date: 5/6/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/26/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-S1-LTSW04	AQ	4/13/99	4/14/99	4/26/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	8	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	<1	ug/L	1.0	1.0	1.0
ACETONE	<5	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	J0.7	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	14	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	29	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	J0.5	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	3	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1993-7
SDG: BN14S1SW09
Report Date: 5/6/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/26/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-S1-LTSW04	AQ	4/13/99	4/14/99	4/26/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	118	%	1.0		
TOLUENE-D8	108	%	1.0		
P-BROMOFLUOROBENZENE	86	%	1.0		
1,2-DICHLOROETHANE-D4	117	%	1.0		

Report Notes: J

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services | Client Field ID: BN-14-S1-LTSW04

Matrix: WATER | SDG Name: BN14S1SW09

Percent Solids: 0.00 | Lab Sample ID: WP1993-007

Concentration Units (ug/L or mg/Kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF
7429-90-5	ALUMINUM	20.93	U		P	1
7440-36-0	ANTIMONY	2.2	B		P	1
7440-38-2	ARSENIC	2.07	U		P	1
7440-39-3	BARIUM	51.9		E	P	1
7440-41-7	BERYLLIUM	0.22	B		P	1
7440-43-9	CADMIUM	0.37	B		P	1
7440-70-2	CALCIUM	104000			P	1
7440-47-3	CHROMIUM	1.3	B		P	1
7440-48-4	COBALT	4.0	B		P	1
7440-50-8	COPPER	2.7	B		P	1
7439-89-6	IRON	7520			P	1
7439-92-1	LEAD	1.09	U		P	1
7439-95-4	MAGNESIUM	16100			P	1
7439-96-5	MANGANESE	735			P	1
7439-97-6	MERCURY	0.02	U		CV	1
7440-02-0	NICKEL	2.6	B		P	1
7440-09-7	POTASSIUM	10900			P	1
7782-49-2	SELENIUM	2.57	U		P	1
7440-22-4	SILVER	1.8	B		P	1
7440-23-5	SODIUM	39700			P	1
7440-28-0	THALLIUM	4.49	U		P	1
7440-62-2	VANADIUM	0.62	U		P	1
7440-66-6	ZINC	3.3	B		P	1

Color Before: COLORLESS | Clarity Before: CLEAR

Color After: COLORLESS | Clarity After: CLEAR

Comments:

FORM I - IN

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1993-8
SDG: BN14S1SW09
Report Date: 5/6/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/26/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-S1-LTSW05	AQ	4/13/99	4/14/99	4/26/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	<1	ug/L	1.0	1.0	1.0
ACETONE	J3	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	J0.6	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	J0.6	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1993-8
SDG: BN14S1SW09
Report Date: 5/6/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/26/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-S1-LTSW05	AQ	4/13/99	4/14/99	4/26/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	2	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	126	%	1.0		
TOLUENE-D8	107	%	1.0		
P-BROMOFLUOROBENZENE	88	%	1.0		
1,2-DICHLOROETHANE-D4	122	%	1.0		

Report Notes: J

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services
Client Field ID: BN-14-S1-LTSW05
Matrix: WATER
SDG Name: BN14S1SW09
Percent Solids: 0.00
Lab Sample ID: WP1993-008

Concentration Units (ug/L or mg/Kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF
7429-90-5	ALUMINUM	326			P	1
7440-36-0	ANTIMONY	3.2	B		P	1
7440-38-2	ARSENIC	612			P	1
7440-39-3	BARIUM	85.7		E	P	1
7440-41-7	BERYLLIUM	0.22	B		P	1
7440-43-9	CADMIUM	0.54	B		P	1
7440-70-2	CALCIUM	60600			P	1
7440-47-3	CHROMIUM	0.59	U		P	1
7440-48-4	COBALT	3.0	B		P	1
7440-50-8	COPPER	9.3	B		P	1
7439-89-6	IRON	146000			P	1
7439-92-1	LEAD	1.1	B		P	1
7439-95-4	MAGNESIUM	19500			P	1
7439-96-5	MANGANESE	1130			P	1
7439-97-6	MERCURY	0.03	B		CV	1
7440-02-0	NICKEL	0.85	U		P	1
7440-09-7	POTASSIUM	4130			P	1
7782-49-2	SELENIUM	2.57	U		P	1
7440-22-4	SILVER	0.82	B		P	1
7440-23-5	SODIUM	30700			P	1
7440-28-0	THALLIUM	4.49	U		P	1
7440-62-2	VANADIUM	2.5	B		P	1
7440-66-6	ZINC	12.0	B		P	1

Color Before: YELLOW
Clarity Before: CLEAR
Color After: YELLOW
Clarity After: CLEAR
Comments:

FORM I - IN

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1992-9
SDG: BN14S9MW072
Report Date: 5/6/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/24/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-TRIP3	AQ	4/12/99	4/14/99	4/24/99	JSS	5030	JSS

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	B2	ug/L	1.0	1.0	1.0
ACETONE	<5	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: B

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1992-9
SDG: BN14S9MW072
Report Date: 5/6/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/24/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-TRIP3	AQ	4/12/99	4/14/99	4/24/99	JSS	5030	JSS

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	114	%	1.0		
TOLUENE-D8	106	%	1.0		
P-BROMOFLUOROBENZENE	98	%	1.0		
1,2-DICHLOROETHANE-D4	110	%	1.0		

Report Notes: B

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1993-9
SDG: BN14S1SW09
Report Date: 5/6/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/26/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-S1-QS002	AQ	4/13/99	4/14/99	4/26/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	B4	ug/L	1.0	1.0	1.0
ACETONE	J2	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: B, J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1993-9
SDG: BN14S1SW09
Report Date: 5/6/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/26/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-S1-QS002	AQ	4/13/99	4/14/99	4/26/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	120	%	1.0		
TOLUENE-D8	108	%	1.0		
P-BROMOFLUOROBENZENE	87	%	1.0		
1,2-DICHLOROETHANE-D4	117	%	1.0		

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services
Client Field ID: BN-14-S1-QS002
Matrix: WATER
SDG Name: BN14S1SW09
Percent Solids: 0.00
Lab Sample ID: WP1993-009

Concentration Units (ug/L or mg/Kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF
7429-90-5	ALUMINUM	20.93	U		P	1
7440-36-0	ANTIMONY	1.81	U		P	1
7440-38-2	ARSENIC	2.07	U		P	1
7440-39-3	BARIUM	0.12	U	E	P	1
7440-41-7	BERYLLIUM	0.21	U		P	1
7440-43-9	CADMIUM	0.26	U		P	1
7440-70-2	CALCIUM	37.0	B		P	1
7440-47-3	CHROMIUM	1.3	B		P	1
7440-48-4	COBALT	0.64	U		P	1
7440-50-8	COPPER	2.1	B		P	1
7439-89-6	IRON	41.3	B		P	1
7439-92-1	LEAD	1.3	B		P	1
7439-95-4	MAGNESIUM	11.8	B		P	1
7439-96-5	MANGANESE	0.58	B		P	1
7439-97-6	MERCURY	0.02	U		CV	1
7440-02-0	NICKEL	0.85	U		P	1
7440-09-7	POTASSIUM	449.54	U		P	1
7782-49-2	SELENIUM	2.57	U		P	1
7440-22-4	SILVER	1.8	B		P	1
7440-23-5	SODIUM	82.8	B		P	1
7440-28-0	THALLIUM	4.49	U		P	1
7440-62-2	VANADIUM	0.62	U		P	1
7440-66-6	ZINC	1.1	B		P	1

Color Before: COLORLESS
Clarity Before: CLEAR
Color After: COLORLESS
Clarity After: CLEAR
Comments:

FORM I - IN

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1994-7
SDG: BN14EPSW12
Report Date: 5/25/99
PO No. : 29600.47.7504
Project: NASB LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/25/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-EP-QD001	AQ	4/12/99	4/14/99	4/25/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	B1	ug/L	1.0	1.0	1.0
ACETONE	<5	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: B

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1994-7
SDG: BN14EPSW12
Report Date: 5/25/99
PO No. : 29600.47.7504
Project: NASB LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/25/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-EP-QD001	AQ	4/12/99	4/14/99	4/25/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	98	%	1.0		
TOLUENE-D8	99	%	1.0		
P-BROMOFLUOROBENZENE	99	%	1.0		
1,2-DICHLOROETHANE-D4	98	%	1.0		

Report Notes: B

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** BN-14-EP-QD001

Matrix: WATER **SDG Name:** BN14EPSW12

Percent Solids: 0.00 **Lab Sample ID:** WP1994-007

Concentration Units (ug/L or mg/Kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF
7429-90-5	ALUMINUM	10.76	U		P	1
7440-36-0	ANTIMONY	1.81	U		P	1
7440-38-2	ARSENIC	2.07	U		P	1
7440-39-3	BARIUM	0.48	U		P	1
7440-41-7	BERYLLIUM	0.33	U		P	1
7440-43-9	CADMIUM	2.6	B		P	1
7440-70-2	CALCIUM	34.1	B		P	1
7440-47-3	CHROMIUM	4.31	U		P	1
7440-48-4	COBALT	4.45	U		P	1
7440-50-8	COPPER	1.62	U		P	1
7439-89-6	IRON	4.7	B		P	1
7439-92-1	LEAD	2.3	B		P	1
7439-95-4	MAGNESIUM	17.16	U		P	1
7439-96-5	MANGANESE	0.97	U		P	1
7439-97-6	MERCURY	0.02	U		CV	1
7440-02-0	NICKEL	13.21	U		P	1
7440-09-7	POTASSIUM	449.54	U		P	1
7782-49-2	SELENIUM	2.57	U		P	1
7440-22-4	SILVER	2.54	U		P	1
7440-23-5	SODIUM	69.9	B		P	1
7440-28-0	THALLIUM	4.49	U		P	1
7440-62-2	VANADIUM	3.58	U		P	1
7440-66-6	ZINC	0.48	U		P	1

Color Before: COLORLESS Clarity Before: CLEAR

Color After: COLORLESS Clarity After: CLEAR

Comments:

FORM I - IN

Appendix C.7

Leachate Station Sediment Samples
Sites 1 and 3

APPENDIX C.7

SAMPLE KEY – EASTERN PLUME
NAVAL AIR STATION, BRUNSWICK, MAINE

Sample Designation	Sample Station
Leachate Seep Samples	
SI-LTSW6	SEEP-06
SI-LTSW7	SEEP-07
SI-LTXD1	SEEP-07 (DUP)
SI-LTSW8	SEEP-08
Trip Blank	
TRIP-5	TRIP-5
Equipment Rinsate Blank	
S1-QS002	QS-002
Source Water Blank	
S1-QD001	QD-001

WP 2101

Chain of Custody Record

EA Laboratories
19 Loveton Circle
Sparks, MD 21152
Telephone: (410) 771-4920
Fax: (410) 771-4407

Company Name: EA Engineering

Project Manager or Contact: Pete Nimmer
Phone: 914-565-5810

Project No.

Project Name: LTMP Event 14

Dept.: Task:

Sample Storage Location:

ATO Number:

Page of

Report #:

Report Deliverables: 1 2 3 4 D E

EDD: Yes/No

DUE TO CLIENT: _____

Parameters/Method Numbers for Analysis: VOC by 8260

Date	Time	Water	Soil	Sample Identification 19 Characters	No. of Containers	VOC by 8260	EA Labs Accession Number	Remarks
4/21/99	1400	X		BN14EPLTSW6	3	X		LPM:
4/21/99	1330	X		BN14EPLTSW7	3	X		
4/21/99	1345	X		BN14EPLTSW8	3	X		
4/21/99	1415	X		BN14TR1P05	3	X		add to SDG #
4/21/99	—	X		BN14EPLTXD1	3	X		BN14EPSW12
								Full data package
								to Newburgh.
								Sample Summary
								package to Sue
								Chase at Brunswick
								temp blank

Sampled by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
Suzanne Chase	4/21/99 1415	Suzanne Chase	4/21/99 1430	[illegible]	04-22-99 0930

Relinquished by: (Signature)	Date/Time	Received by Laboratory: (Signature)	Date/Time	Airbill Number:

Sample Shipped by: (Circle) Fed Ex. Puro. UPS Hand Carried Other:

Cooler Temp.____C pH: ☐ Yes ☐ No Comments: Custody Seals Intact ☐ Yes ☐ No

NOTE: Please indicate method number for analyses requested. This will help clarify any questions with laboratory techniques.

WHITE—EA Laboratories YELLOW—EA Laboratories PINK—Project Manager *Shaded Areas for Lab Use Only*

000010

Katahdin ANALYTICAL SERVICES
340 County Road No. 5
P.O. Box 720
Westbrook, ME 04098
Tel: (207) 874-2400
Fax: (207) 775-4029

CHAIN of CUSTODY

PLEASE PRINT IN PEN

Client: EA Engineering
Contact: Peter Nimmer
Phone #: (914) 565-8100
Fax #: (914) 565-820
Address: 3 Washington Center
City: Newburgh
State: NY
Zip Code: 12550
Purchase Order #:
Proj. Name / No.: LTMP-14/29600.47
Katahdin Quote #:
Bill (if different than above):
Address:
Sampler (Print / Sign): Kim Shutty / Kim Shutty
Copies To: See Comments

LAB USE ONLY
WORK ORDER #: WP1994
KATAHDIN PROJECT MANAGER:

REMARKS:

SHIPPING INFO: ☐ FED EX ☐ UPS ☐ CLIENT
AIRBILL NO:
TEMP°C: ☐ TEMP BLANK ☐ INTACT ☐ NOT INTACT

ANALYSIS AND CONTAINER TYPE PRESERVATIVES

*	Sample Description	Date / Time coll'd	Matrix	No. of Cntrs.	VOC by 8260 HCl - VOAS	TAI Elements HNO3 - by 6010	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Fil ☐Y
	BN-14-EP-SW12 MS/MSD	4/13/99 / 0850	water	6	X											
	BN-14-EP-SWXD1	4/13/99 / —	water	3	X											
	BN-14-EP-SW11	4/13/99 / 0935	water	3	X											
	BN-14-EP-SW14	4/13/99 / 0955	water	3	X											
	BN-14-EP-SW13	4/13/99 / 1025	water	3	X											
	BN-14-EP-SW10	4/13/99 / 1055	water	3	X											
	BN-14-EP-QD001	4/12/99 / 1710	water	4	X	X										
	BN-14-EP-QS001	4/12/99 / 1720	water	4	X	X										
		/														
		/														
		/														
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		/														
		/														
		/														
		/														

COMMENTS: all samples in SDG-# BN-14-EP-SW12. SDG Complete. Full data pack should be sent to Newburgh. Send form 1s & COC to Sue Chase in Brunswick Me. TR blank - BNTrip3 included with samples.

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
[signature]	4/14/99 1645	B M 4/14/99 1645	B M 4/14/99 1745	04-14-99 1748	[signature]
Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP2101-1
SDG: BN14EPSW12
Report Date: 5/25/99
PO No. : 29600.47.7504
Project: LTMPEVENT14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/2/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN14EPLTSW6	AQ	4/21/99	4/22/99	5/2/99	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	<1	ug/L	1.0	1.0	1.0
ACETONE	<5	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP2101-1
SDG: BN14EPSW12
Report Date: 5/25/99
PO No. : 29600.47.7504
Project: LTMPEVENT14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/2/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN14EPLTSW6	AQ	4/21/99	4/22/99	5/2/99	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	96	%	1.0		
TOLUENE-D8	96	%	1.0		
P-BROMOFLUOROBENZENE	90	%	1.0		
1,2-DICHLOROETHANE-D4	99	%	1.0		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP2101-2
SDG: BN14EPSW12
Report Date: 5/25/99
PO No. : 29600.47.7504
Project: LTMPEVENT14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/2/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN14EPLTSW7	AQ	4/21/99	4/22/99	5/2/99	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	<1	ug/L	1.0	1.0	1.0
ACETONE	<5	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP2101-2
SDG: BN14EPSW12
Report Date: 5/25/99
PO No. : 29600.47.7504
Project: LTMPEVENT14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/2/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN14EPLTSW7	AQ	4/21/99	4/22/99	5/2/99	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	96	%	1.0		
TOLUENE-D8	96	%	1.0		
P-BROMOFLUOROBENZENE	92	%	1.0		
1,2-DICHLOROETHANE-D4	100	%	1.0		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP2101-5
SDG: BN14EPSW12
Report Date: 5/24/99
PO No. : 29600.47.7504
Project: LTMPEVENT14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/2/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN14EPLTXDI	AQ	4/21/99	4/22/99	5/2/99	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	<1	ug/L	1.0	1.0	1.0
ACETONE	<5	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP2101-5
SDG: BN14EPSW12
Report Date: 5/24/99
PO No. : 29600.47.7504
Project: LTMPEVENT14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/2/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN14EPLTXDI	AQ	4/21/99	4/22/99	5/2/99	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	99	%	1.0		
TOLUENE-D8	95	%	1.0		
P-BROMOFLUOROBENZENE	91	%	1.0		
1,2-DICHLOROETHANE-D4	103	%	1.0		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP2101-3
SDG: BN14EPSW12
Report Date: 5/25/99
PO No. : 29600.47.7504
Project: LTMPEVENT14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/2/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN14EPLTSW8	AQ	4/21/99	4/22/99	5/2/99	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	<1	ug/L	1.0	1.0	1.0
ACETONE	J3	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP2101-3
SDG: BN14EPSW12
Report Date: 5/25/99
PO No. : 29600.47.7504
Project: LTMPEVENT14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/2/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN14EPLTSW8	AQ	4/21/99	4/22/99	5/2/99	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	97	%	1.0		
TOLUENE-D8	94	%	1.0		
P-BROMOFLUOROBENZENE	89	%	1.0		
1,2-DICHLOROETHANE-D4	99	%	1.0		

Report Notes: J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP2101-4
SDG: BN14EPSW12
Report Date: 5/24/99
PO No. : 29600.47.7504
Project: LTMPEVENT14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/2/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN14TRIP05	AQ	4/21/99	4/22/99	5/2/99	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	<1	ug/L	1.0	1.0	1.0
ACETONE	<5	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP2101-4
SDG: BN14EPSW12
Report Date: 5/24/99
PO No. : 29600.47.7504
Project: LTMPEVENT14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/2/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN14TRIP05	AQ	4/21/99	4/22/99	5/2/99	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	99	%	1.0		
TOLUENE-D8	96	%	1.0		
P-BROMOFLUOROBENZENE	91	%	1.0		
1,2-DICHLOROETHANE-D4	104	%	1.0		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1994-8
SDG: BN14EPSW12
Report Date: 5/25/99
PO No. : 29600 47 7504
Project: NASB LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/25/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-EP-QS001	AQ	4/12/99	4/14/99	4/25/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	JB0.9	ug/L	1.0	1.0	1.0
ACETONE	<5	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: B, J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1994-8
SDG: BN14EPSW12
Report Date: 5/25/99
PO No. : 29600.47.7504
Project: NASB LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/25/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-EP-QS001	AQ	4/12/99	4/14/99	4/25/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	98	%	1.0		
TOLUENE-D8	100	%	1.0		
P-BROMOFLUOROBENZENE	97	%	1.0		
1,2-DICHLOROETHANE-D4	99	%	1.0		

Report Notes: B, J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1994-7
SDG: BN14EPSW12
Report Date: 5/25/99
PO No. : 29600 47.7504
Project: NASB LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/25/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-EP-QD001	AQ	4/12/99	4/14/99	4/25/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	B1	ug/L	1.0	1.0	1.0
ACETONE	<5	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1 0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: B

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1994-7
SDG: BN14EPSW12
Report Date: 5/25/99
PO No. : 29600.47.7504
Project: NASB LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/25/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-EP-QD001	AQ	4/12/99	4/14/99	4/25/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	98	%	1.0		
TOLUENE-D8	99	%	1.0		
P-BROMOFLUOROBENZENE	99	%	1.0		
1,2-DICHLOROETHANE-D4	98	%	1.0		

Report Notes: B

Appendix C.8

MS/MSD Recovery Reports

APPENDIX C.8

SAMPLE KEY - SITES 1 AND 3
NAVAL AIR STATION, BRUNSWICK, MAINE

Sample Designation	Sample Station
Seep Sediment Samples	
S1-LTSD01	LT-01
S1-LTSD03	LT-03
S1-LTSD04	LT-04
S1-LTXD01	LT-04 (DUP)
S1-LTSD05	LT-05
Trip Blank	
TRIP-3	TRIP-3
Equipment Rinsate Blank	
S1-QS002	QS-002
Source Water Blank	
EP-QD001	QD-001

Katahdin ANALYTICAL SERVICES
P.O. Box 720
Westbrook, ME 04098
Tel: (207) 874-2400
Fax: (207) 775-4029

CHAIN of CUSTODY

PLEASE PRINT IN PEN

Client: EA Engineering
Contact: Peter Nimmer
Phone #: (914) 565-8100
Fax #: (914) 565-82[illegible]
Address: 3 Washington Center
City: Newburgh
State: NY
Zip Code: 12550
Purchase Order #:
Proj. Name / No.: LTMP-14/29600.47
Katahdin Quote #:
Bill (if different than above):
Address:
Sampler (Print / Sign): Kim Shutty / Kim Shutty
Copies To: See Comments

LAB USE ONLY
WORK ORDER #: WP1994
KATAHDIN PROJECT MANAGER:
REMARKS:
SHIPPING INFO: ☐ FED EX ☐ UPS ☐ CLIENT
AIRBILL NO:
TEMP°C: ☐ TEMP BLANK ☐ INTACT ☐ NOT INTACT

ANALYSIS AND CONTAINER TYPE PRESERVATIVES

*	Sample Description	Date / Time coll'd	Matrix	No. of Cntrs.	VOC by 8260 HCl - VOAS	TAI Elements HNO3 - by 6010	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y
	BN-14-EP-SW12 MS/MSD	4/13/99 / 0850	water	6	X											
	BN-14-EP-SWXD1	4/13/99 / —	water	3	X											
	BN-14-EP-SW11	4/13/99 / 0935	water	3	X											
	BN-14-EP-SW14	4/13/99 / 0955	water	3	X											
	BN-14-EP-SW13	4/13/99 / 1025	water	3	X											
	BN-14-EP-SW10	4/13/99 / 1055	water	3	X											
	BN-14-EP-QD001	4/12/99 / 1710	water	4	X	X										
	BN-14-EP-QS001	4/12/99 / 1720	water	4	X	X										
		/														
		/														
		/														
		/														
		/														
		/														
		/														
		/														

COMMENTS: all Samples in SDG-# BN-14-EP-SW12. SDG Complete. Full data pack should be sent to Newburgh. Send form 1s & COC to Sue Chase in Brunswick Me. TRIP blank - BNTrip3 included with samples.

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
[signature]	4/14/99 1645	[signature] 4/14/99 1645	[signature] 4-14-99 1745	04-14-99 1748	[signature]
Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)

FORMSOURCE INC. ☎ (207) 782-3311
FORM # CHN-OF-CSTDY

ORIGINAL 0000009

Katahdin ANALYTICAL SERVICES
P.O. Box 720
Westbrook, ME 04098
Tel: (207) 874-2400
Fax: (207) 775-4029

CHAIN of CUSTODY

PLEASE PRINT IN PEN

Page 1 of

Client: EA Engineering
Contact: Pete Nimmer
Phone #: (914) 565-8100
Fax #: (914) 565-8620
Address: 3 Washington Center
City: Newburgh
State: NY
Zip Code: 12550
Purchase Order #:
Proj. Name / No.: LTMP-T4 / 29600.47
Katahdin Quote #:
Bill (if different than above):
Address:
Sampler (Print / Sign): Kim Shutty / Kim Shutty
Copies To: See Comments

LAB USE ONLY
WORK ORDER #: WP1993
KATAHDIN PROJECT MANAGER:

REMARKS:

SHIPPING INFO: ☐ FED EX ☐ UPS ☐ CLIENT
AIRBILL NO:
TEMP°C: ☐ TEMP BLANK ☐ INTACT ☐ NOT INTACT

ANALYSIS AND CONTAINER TYPE PRESERVATIVES

*	Sample Description	Date / Time coll'd	Matrix	No. of Cntrs.	Filt. ☐Y ☒N VOC by 8260 HCl	Filt. ☐Y ☐N Tal Elements by 6010 HNO3	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N
	BN-14-S1-SW09 MS/MSD	4/13/99 / 1210	water	8	X	X								
	BN-14-S1-SWXD1	4/13/99 / —	water	4	X	X								
	BN-14-S1-SW08	4/13/99 / 1235	water	4	X	X								
	BN-14-S1-SW04	4/13/99 / 1310	water	4	X	X								
	BN-14-S1-LTSW01	4/13/99 / 1325	water	4	X	X								
	BN-14-S1-LTSW03	4/13/99 / 1355	water	4	X	X								
	BN-14-S1-LTSW04	4/13/99 / 1425	water	4	X	X								
	BN-14-S1-LTSW05	4/13/99 / 1455	water	4	X	X								
	BN-14-S1-QS002	4/13/99 / 1605	water	4	X	X								
	BN-14-S1-SW07	4/13/99 / 1250	water	4	X	X								
		/												
		/												
		/												
		/												
		/												
		/												

COMMENTS: all samples in SDG# BN-14-S1-SW09. SDG complete. Send complete data package to Newburgh. Send form 1s ~~to~~ COC to ~~Newburgh~~ Sue Chase in Brunswick ME. Trip blank BN-TRIP3 with samples.

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
[signature]	4/14/99 1645	B M 4-14-99 1645	B M 4-14-99 1745	04-14-99 1745	[signature]
Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)

RMSOURCE INC. ☎ (207) 782-3311
RM # CHN OF CSTDY

ORIGINAL

0000008

Katahdin
ANALYTICAL SERVICES
340 County Road No. 5
P.O. Box 720
Westbrook, ME 04098
Tel: (207) 874-2400
Fax: (207) 775-4029

CHAIN of CUSTODY

PLEASE PRINT IN PEN

Client	Contact	Phone #	Fax #
EA Engineering	Peter Nimmer	(914) 565-8100	(914) 565-8203

Address: 3 Washington Center | City: Newburgh | State: NY | Zip Code: 12550

Purchase Order #: | Proj. Name / No.: LTMP-14 / 29600.47 | Katahdin Quote #:

Bill (if different than above): | Address:

Sampler (Print / Sign): Kim Shutty Kim Shutty | Copies To: See Comments

LAB USE ONLY

WORK ORDER #: WP1991

KATAHDIN PROJECT MANAGER:

REMARKS:

SHIPPING INFO: ☐ FED EX ☐ UPS ☐ CLIENT

AIRBILL NO:

TEMP°C: ☐ TEMP BLANK ☐ INTACT ☐ NOT INTACT

ANALYSIS AND CONTAINER TYPE PRESERVATIVES

*	Sample Description	Date / Time coll'd	Matrix	No. of Cntrs.	Filt. ☐Y ☒N VOC by 8260 HCl - VOAS	Filt. ☐Y ☒N TAL Elements HNO3 - by 6010	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N
	BN-14-S1-LTSD01	4/13/99/1325	SED	2	X	X								
	BN-14-S1-LTSD03 MS/MSD	4/13/99/11355	SED	2	X	X								
	BN-14-S1-LTSD04	4/13/99/1425	SED	4	X	X								
	BN-14-S1-LTXD01	4/13/99 —	SED	2	X	X								
	BN-14-S1-LTSD05	4/13/99/1455	SED	2	X	X								
		/												
		/												
		/												
		/												
		/												
		/												
		/												
		/												
		/												
		/												

COMMENTS: all samples listed on this COC on SDG # BN-14-S1-LTSD01. SDG is complete. Send full data package to Newburgh. Send form 1s & COC to Sue Chase in Maine. Trip Blank BN-Trip3 included with samples.

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
[signature]	4/14/99 1645	B M 4-14-99 1645	B M 4-14-99 1745	04-14-99 1745	[signature]
Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)

Katahdin ANALYTICAL SERVICES
340 County Road No. 5
P.O. Box 720
Westbrook, ME 04098
Tel: (207) 874-2400
Fax: (207) 775-4029

CHAIN of CUSTODY

PLEASE PRINT IN PEN

Client: EA Engineering
Contact: Pete Nimmer
Phone #: (914) 565-8100
Fax #: (914) 565-82

Address: 3 Washington Center
City: Newburgh
State: NY
Zip Code: 12550

Purchase Order #:
Proj. Name / No.: LTMP-14 / 29600.47
Katahdin Quote #:

Bill (if different than above):
Address:

Sampler (Print / Sign): Kim Shutty / Kim Shutty
Copies To: See Comments

LAB USE ONLY
WORK ORDER #: WP1992
KATAHDIN PROJECT MANAGER:

REMARKS:

SHIPPING INFO: ☐ FED EX ☐ UPS ☐ CLIENT
AIRBILL NO:
TEMP°C: ☐ TEMP BLANK ☐ INTACT ☐ NOT INTACT

ANALYSIS AND CONTAINER TYPE PRESERVATIVES

*	Sample Description	Date / Time coll'd	Matrix	No. of Cntrs.	Filt. ☐Y ☒N: VOC by 8260 HCL - VOAs	Filt. ☐Y ☐N: Tal Elements HNO3 - by 6010	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N
	BN-14-S9-MW072	4/12/99 / 1059	WATER	3	+									
	BN-14-S9-MW075	4/12/99 / 1055	WATER	3	+									
	BN-14-S9-MW074	4/12/99 / 1157	water	3	+									
	BN-14-S9-MW076	4/12/99 / 1250	water	3	+									
	BN-14-S9-MW227	4/12/99 / 1456	water	3	+									
	BN-14-S9-MW080	4/12/99 / 1606	water	3	X									
	BN-14-S9-MW22	4/12/99 / 1649	water	3	X									
	BN-14-S9-MW-71	4/12/99 / 1602	water	3	X									
	BN-14-S9-MS/MSD MW069	4/13/99 / 0920	water	6	X	X								
	BN-14-S9-MWXD1	4/13/99 / —	water	3	X	X								
	BN-14-S9-MW079	4/13/99 / 1034	water	1		X								
	BN-14-S9-MW070	4/13/99 / 1431	water	1		X								
	BN-TRIP 3	4/12/99 / 1059	water	2	X									
		/												
		/												
		/												

COMMENTS all samples in SDG# BN-14-S9-MW072. SDG complete. Send full data package to Newburgh. Send form 1s ~~to~~ COCs to Sue Chase in Brunswick.

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
[signature]	4/14/99 1645	B M 4/14/99 1645	B M 4/14/99 1745	04-14-99 1745	[signature]
Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1991-1
SDG: BN14S1LTSD01
Report Date: 5/7/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: 11
Method: EPA 8260
Date Analyzed: 4/26/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-S1-LTSD01	SL	4/13/99	4/14/99	4/26/99	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<18	ug/Kg	9.2	18	2.0
BROMOMETHANE	<18	ug/Kg	9.2	18	2.0
VINYL CHLORIDE	<18	ug/Kg	9.2	18	2.0
CHLOROETHANE	<18	ug/Kg	9.2	18	2.0
METHYLENE CHLORIDE	B46	ug/Kg	9.2	9	1.0
ACETONE	<46	ug/Kg	9.2	46	5
CARBON DISULFIDE	<9	ug/Kg	9.2	9	1.0
1,1-DICHLOROETHENE	<9	ug/Kg	9.2	9	1.0
1,1-DICHLOROETHANE	18	ug/Kg	9.2	9	1.0
TOTAL 1,2-DICHLOROETHENE	J5	ug/Kg	9.2	9	1.0
CHLOROFORM	B10	ug/Kg	9.2	9	1.0
1,2-DICHLOROETHANE	9	ug/Kg	9.2	9	1.0
2-BUTANONE	<46	ug/Kg	9.2	46	5
1,1,1-TRICHLOROETHANE	<9	ug/Kg	9.2	9	1.0
CARBON TETRACHLORIDE	<9	ug/Kg	9.2	9	1.0
BROMODICHLOROMETHANE	<9	ug/Kg	9.2	9	1.0
1,2-DICHLOROPROPANE	<9	ug/Kg	9.2	9	1.0
CIS-1,3-DICHLOROPROPENE	<9	ug/Kg	9.2	9	1.0
TRICHLOROETHENE	<9	ug/Kg	9.2	9	1.0
DIBROMOCHLOROMETHANE	<9	ug/Kg	9.2	9	1.0
1,1,2-TRICHLOROETHANE	21	ug/Kg	9.2	9	1.0
BENZENE	<46	ug/Kg	9.2	46	5.0
TRANS-1,3-DICHLOROPROPENE	<9	ug/Kg	9.2	9	1.0
BROMOFORM	<9	ug/Kg	9.2	9	1.0
4-METHYL-2-PENTANONE	<28	ug/Kg	9.2	28	3
2-HEXANONE	<37	ug/Kg	9.2	37	4
TETRACHLOROETHENE	12	ug/Kg	9.2	9	1.0
1,1,2,2-TETRACHLOROETHANE	15	ug/Kg	9.2	9	1.0
TOLUENE	<46	ug/Kg	9.2	46	5.0
CHLOROBENZENE	<9	ug/Kg	9.2	9	1.0
ETHYLBENZENE	<46	ug/Kg	9.2	46	5.0
STYRENE	<9	ug/Kg	9.2	9	1.0
TOTAL XYLENES	<46	ug/Kg	9.2	46	5.0

Report Notes: B, J, #

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1991-1
SDG: BN14S1LTSD01
Report Date: 5/7/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: 11
Method: EPA 8260
Date Analyzed: 4/26/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-S1-LTSD01	SL	4/13/99	4/14/99	4/26/99	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<9	ug/Kg	9.2	9	1.0
1,3-DICHLOROBENZENE	<9	ug/Kg	9.2	9	1.0
1,4-DICHLOROBENZENE	J7	ug/Kg	9.2	9	1.0
DIBROMOFLUOROMETHANE	87	%	9.2		
TOLUENE-D8	72	%	9.2		
P-BROMOFLUOROBENZENE	#41	%	9.2		
1,2-DICHLOROETHANE-D4	80	%	9.2		

Report Notes: B, J, #

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1991-1RE
SDG: BN14S1LTSD01
Report Date: 5/7/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: 11
Method: EPA 8260
Date Analyzed: 4/27/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-S1-LTSD01	SL	4/13/99	4/14/99	4/27/99	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<18	ug/Kg	9.2	18	2.0
BROMOMETHANE	<18	ug/Kg	9.2	18	2.0
VINYL CHLORIDE	<18	ug/Kg	9.2	18	2.0
CHLOROETHANE	<18	ug/Kg	9.2	18	2.0
METHYLENE CHLORIDE	B84	ug/Kg	9.2	9	1.0
ACETONE	<46	ug/Kg	9.2	46	5
CARBON DISULFIDE	<9	ug/Kg	9.2	9	1.0
1,1-DICHLOROETHENE	<9	ug/Kg	9.2	9	1.0
1,1-DICHLOROETHANE	22	ug/Kg	9.2	9	1.0
TOTAL 1,2-DICHLOROETHENE	J7	ug/Kg	9.2	9	1.0
CHLOROFORM	B9	ug/Kg	9.2	9	1.0
1,2-DICHLOROETHANE	10	ug/Kg	9.2	9	1.0
2-BUTANONE	<46	ug/Kg	9.2	46	5
1,1,1-TRICHLOROETHANE	<9	ug/Kg	9.2	9	1.0
CARBON TETRACHLORIDE	<9	ug/Kg	9.2	9	1.0
BROMODICHLOROMETHANE	<9	ug/Kg	9.2	9	1.0
1,2-DICHLOROPROPANE	<9	ug/Kg	9.2	9	1.0
CIS-1,3-DICHLOROPROPENE	<9	ug/Kg	9.2	9	1.0
TRICHLOROETHENE	J5	ug/Kg	9.2	9	1.0
DIBROMOCHLOROMETHANE	<9	ug/Kg	9.2	9	1.0
1,1,2-TRICHLOROETHANE	38	ug/Kg	9.2	9	1.0
BENZENE	<46	ug/Kg	9.2	46	5.0
TRANS-1,3-DICHLOROPROPENE	<9	ug/Kg	9.2	9	1.0
BROMOFORM	<9	ug/Kg	9.2	9	1.0
4-METHYL-2-PENTANONE	<28	ug/Kg	9.2	28	3
2-HEXANONE	<37	ug/Kg	9.2	37	4
TETRACHLOROETHENE	24	ug/Kg	9.2	9	1.0
1,1,2,2-TETRACHLOROETHANE	28	ug/Kg	9.2	9	1.0
TOLUENE	<46	ug/Kg	9.2	46	5.0
CHLOROBENZENE	<9	ug/Kg	9.2	9	1.0
ETHYLBENZENE	<46	ug/Kg	9.2	46	5.0
STYRENE	<9	ug/Kg	9.2	9	1.0
TOTAL XYLENES	<46	ug/Kg	9.2	46	5.0

Report Notes: B, J, #

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1991-1RE
SDG: BN14S1LTSD01
Report Date: 5/7/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: 11
Method: EPA 8260
Date Analyzed: 4/27/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-S1-LTSD01	SL	4/13/99	4/14/99	4/27/99	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	J6	ug/Kg	9.2	9	1.0
1,3-DICHLOROBENZENE	J6	ug/Kg	9.2	9	1.0
1,4-DICHLOROBENZENE	16	ug/Kg	9.2	9	1.0
DIBROMOFLUOROMETHANE	#48	%	9.2		
TOLUENE-D8	82	%	9.2		
P-BROMOFLUOROBENZENE	#60	%	9.2		
1,2-DICHLOROETHANE-D4	91	%	9.2		

Report Notes: B, J, #

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** BN-14-S1-LTSD01

Matrix: SOIL **SDG Name:** BN14SILTSD01

Percent Solids: 10.9 **Lab Sample ID:** WP1991-001

Concentration Units (ug/L or mg/Kg dry weight): mg/Kg

CAS No.	Analyte	Concentration	C	Q	M	DF
7429-90-5	ALUMINUM	1980		N	P	1
7440-36-0	ANTIMONY	1.29	U	N	P	1
7440-38-2	ARSENIC	8.2			P	1
7440-39-3	BARIUM	133			P	1
7440-41-7	BERYLLIUM	1.5	B		P	1
7440-43-9	CADMIUM	1.7	B		P	1
7440-70-2	CALCIUM	12900			P	1
7440-47-3	CHROMIUM	1.7	B		P	1
7440-48-4	COBALT	93.7			P	1
7440-50-8	COPPER	9.2	B		P	1
7439-89-6	IRON	159000			P	5
7439-92-1	LEAD	21.1			P	1
7439-95-4	MAGNESIUM	553			P	1
7439-96-5	MANGANESE	2800			P	1
7439-97-6	MERCURY	0.34			CV	1
7440-02-0	NICKEL	71.2			P	1
7440-09-7	POTASSIUM	1596.17	U		P	5
7782-49-2	SELENIUM	1.83	U		P	1
7440-22-4	SILVER	0.49	U		P	1
7440-23-5	SODIUM	272	B		P	5
7440-28-0	THALLIUM	4.3	B		P	1
7440-62-2	VANADIUM	17.7	B		P	1
7440-66-6	ZINC	93.5			P	1

Color Before: BROWN Texture: MEDIUM

Color After: YELLOW Clarity After: CLEAR

Comments:

FORM I - IN

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1991-2
SDG: BN14S1LTSD01
Report Date: 5/7/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: 17
Method: EPA 8260
Date Analyzed: 4/26/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-S1-LTSD03	SL	4/13/99	4/14/99	4/26/99	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<12	ug/Kg	5.8	12	2.0
BROMOMETHANE	<12	ug/Kg	5.8	12	2.0
VINYL CHLORIDE	<12	ug/Kg	5.8	12	2.0
CHLOROETHANE	<12	ug/Kg	5.8	12	2.0
METHYLENE CHLORIDE	B38	ug/Kg	5.8	6	1.0
ACETONE	<29	ug/Kg	5.8	29	5
CARBON DISULFIDE	<6	ug/Kg	5.8	6	1.0
1,1-DICHLOROETHENE	<6	ug/Kg	5.8	6	1.0
1,1-DICHLOROETHANE	60	ug/Kg	5.8	6	1.0
TOTAL 1,2-DICHLOROETHENE	<6	ug/Kg	5.8	6	1.0
CHLOROFORM	B8	ug/Kg	5.8	6	1.0
1,2-DICHLOROETHANE	<6	ug/Kg	5.8	6	1.0
2-BUTANONE	<29	ug/Kg	5.8	29	5
1,1,1-TRICHLOROETHANE	310	ug/Kg	5.8	6	1.0
CARBON TETRACHLORIDE	<6	ug/Kg	5.8	6	1.0
BROMODICHLOROMETHANE	<6	ug/Kg	5.8	6	1.0
1,2-DICHLOROPROPANE	<6	ug/Kg	5.8	6	1.0
CIS-1,3-DICHLOROPROPENE	<6	ug/Kg	5.8	6	1.0
TRICHLOROETHENE	22	ug/Kg	5.8	6	1.0
DIBROMOCHLOROMETHANE	<6	ug/Kg	5.8	6	1.0
1,1,2-TRICHLOROETHANE	19	ug/Kg	5.8	6	1.0
BENZENE	<29	ug/Kg	5.8	29	5.0
TRANS-1,3-DICHLOROPROPENE	<6	ug/Kg	5.8	6	1.0
BROMOFORM	<6	ug/Kg	5.8	6	1.0
4-METHYL-2-PENTANONE	<17	ug/Kg	5.8	17	3
2-HEXANONE	<23	ug/Kg	5.8	23	4
TETRACHLOROETHENE	67	ug/Kg	5.8	6	1.0
1,1,2,2-TETRACHLOROETHANE	460	ug/Kg	5.8	6	1.0
TOLUENE	<29	ug/Kg	5.8	29	5.0
CHLOROBENZENE	10	ug/Kg	5.8	6	1.0
ETHYLBENZENE	<29	ug/Kg	5.8	29	5.0
STYRENE	<6	ug/Kg	5.8	6	1.0
TOTAL XYLENES	<29	ug/Kg	5.8	29	5.0

Report Notes: B, #

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1991-2
SDG: BN14S1LTSD01
Report Date: 5/7/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: 17
Method: EPA 8260
Date Analyzed: 4/26/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-S1-LTSD03	SL	4/13/99	4/14/99	4/26/99	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	29	ug/Kg	5.8	6	1.0
1,3-DICHLOROBENZENE	8	ug/Kg	5.8	6	1.0
1,4-DICHLOROBENZENE	45	ug/Kg	5.8	6	1.0
DIBROMOFLUOROMETHANE	103	%	5.8		
TOLUENE-D8	87	%	5.8		
P-BROMOFLUOROBENZENE	#47	%	5.8		
1,2-DICHLOROETHANE-D4	93	%	5.8		

Report Notes: B, #

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1991-2RE
SDG: BN14S1LTSD01
Report Date: 5/7/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: 17
Method: EPA 8260
Date Analyzed: 4/27/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-S1-LTSD03	SL	4/13/99	4/14/99	4/27/99	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<12	ug/Kg	5.8	12	2.0
BROMOMETHANE	<12	ug/Kg	5.8	12	2.0
VINYL CHLORIDE	<12	ug/Kg	5.8	12	2.0
CHLOROETHANE	<12	ug/Kg	5.8	12	2.0
METHYLENE CHLORIDE	B44	ug/Kg	5.8	6	1.0
ACETONE	<29	ug/Kg	5.8	29	5
CARBON DISULFIDE	<6	ug/Kg	5.8	6	1.0
1,1-DICHLOROETHENE	<6	ug/Kg	5.8	6	1.0
1,1-DICHLOROETHANE	94	ug/Kg	5.8	6	1.0
TOTAL 1,2-DICHLOROETHENE	<6	ug/Kg	5.8	6	1.0
CHLOROFORM	B6	ug/Kg	5.8	6	1.0
1,2-DICHLOROETHANE	<6	ug/Kg	5.8	6	1.0
2-BUTANONE	<29	ug/Kg	5.8	29	5
1,1,1-TRICHLOROETHANE	310	ug/Kg	5.8	6	1.0
CARBON TETRACHLORIDE	<6	ug/Kg	5.8	6	1.0
BROMODICHLOROMETHANE	<6	ug/Kg	5.8	6	1.0
1,2-DICHLOROPROPANE	<6	ug/Kg	5.8	6	1.0
CIS-1,3-DICHLOROPROPENE	<6	ug/Kg	5.8	6	1.0
TRICHLOROETHENE	29	ug/Kg	5.8	6	1.0
DIBROMOCHLOROMETHANE	<6	ug/Kg	5.8	6	1.0
1,1,2-TRICHLOROETHANE	27	ug/Kg	5.8	6	1.0
BENZENE	<29	ug/Kg	5.8	29	5.0
TRANS-1,3-DICHLOROPROPENE	<6	ug/Kg	5.8	6	1.0
BROMOFORM	<6	ug/Kg	5.8	6	1.0
4-METHYL-2-PENTANONE	<17	ug/Kg	5.8	17	3
2-HEXANONE	<23	ug/Kg	5.8	23	4
TETRACHLOROETHENE	86	ug/Kg	5.8	6	1.0
1,1,2,2-TETRACHLOROETHANE	560	ug/Kg	5.8	6	1.0
TOLUENE	<29	ug/Kg	5.8	29	5.0
CHLOROBENZENE	22	ug/Kg	5.8	6	1.0
ETHYLBENZENE	<29	ug/Kg	5.8	29	5.0
STYRENE	<6	ug/Kg	5.8	6	1.0
TOTAL XYLENES	<29	ug/Kg	5.8	29	5.0

Report Notes: B, #

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1991-2RE
SDG: BN14S1LTSD01
Report Date: 5/7/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: 17
Method: EPA 8260
Date Analyzed: 4/27/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-S1-LTSD03	SL	4/13/99	4/14/99	4/27/99	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	38	ug/Kg	5.8	6	1.0
1,3-DICHLOROBENZENE	9	ug/Kg	5.8	6	1.0
1,4-DICHLOROBENZENE	78	ug/Kg	5.8	6	1.0
DIBROMOFLUOROMETHANE	88	%	5.8		
TOLUENE-D8	79	%	5.8		
P-BROMOFLUOROBENZENE	#43	%	5.8		
1,2-DICHLOROETHANE-D4	89	%	5.8		

Report Notes: B, #

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** BN-14-S1-LTSD03

Matrix: SOIL **SDG Name:** BN14SILTSD01

Percent Solids: 17.3 **Lab Sample ID:** WP1991-002

Concentration Units (ug/L or mg/Kg dry weight): mg/Kg

CAS No.	Analyte	Concentration	C	Q	M	DF
7429-90-5	ALUMINUM	3860		N	P	1
7440-36-0	ANTIMONY	0.70	U	N	P	1
7440-38-2	ARSENIC	28.0			P	1
7440-39-3	BARIUM	233			P	1
7440-41-7	BERYLLIUM	0.70	B		P	1
7440-43-9	CADMIUM	1.9	B		P	1
7440-70-2	CALCIUM	11200			P	1
7440-47-3	CHROMIUM	38.4			P	1
7440-48-4	COBALT	24.6			P	1
7440-50-8	COPPER	6.8	B		P	1
7439-89-6	IRON	190000			P	10
7439-92-1	LEAD	38.5			P	1
7439-95-4	MAGNESIUM	955			P	1
7439-96-5	MANGANESE	14900			P	10
7439-97-6	MERCURY	1.5			CV	1
7440-02-0	NICKEL	17.0			P	1
7440-09-7	POTASSIUM	1741.21	U		P	10
7782-49-2	SELENIUM	9.0			P	2
7440-22-4	SILVER	1.6	B		P	1
7440-23-5	SODIUM	262	B		P	10
7440-28-0	THALLIUM	5.0	B		P	2
7440-62-2	VANADIUM	18.3			P	1
7440-66-6	ZINC	25.0			P	1

Color Before: BROWN Texture: MEDIUM

Color After: YELLOW Clarity After: CLEAR

Comments:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1991-3
SDG: BN14S1LTSD01
Report Date: 5/6/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: 20
Method: EPA 8260
Date Analyzed: 4/26/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-S1-LTSD04	SL	4/13/99	4/14/99	4/26/99	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<10	ug/Kg	4.9	10	2.0
BROMOMETHANE	<10	ug/Kg	4.9	10	2.0
VINYL CHLORIDE	<10	ug/Kg	4.9	10	2.0
CHLOROETHANE	<10	ug/Kg	4.9	10	2.0
METHYLENE CHLORIDE	B31	ug/Kg	4.9	5	1.0
ACETONE	<24	ug/Kg	4.9	24	5
CARBON DISULFIDE	<5	ug/Kg	4.9	5	1.0
1,1-DICHLOROETHENE	<5	ug/Kg	4.9	5	1.0
1,1-DICHLOROETHANE	33	ug/Kg	4.9	5	1.0
TOTAL 1,2-DICHLOROETHENE	<5	ug/Kg	4.9	5	1.0
CHLOROFORM	B6	ug/Kg	4.9	5	1.0
1,2-DICHLOROETHANE	<5	ug/Kg	4.9	5	1.0
2-BUTANONE	<24	ug/Kg	4.9	24	5
1,1,1-TRICHLOROETHANE	<5	ug/Kg	4.9	5	1.0
CARBON TETRACHLORIDE	<5	ug/Kg	4.9	5	1.0
BROMODICHLOROMETHANE	<5	ug/Kg	4.9	5	1.0
1,2-DICHLOROPROPANE	<5	ug/Kg	4.9	5	1.0
CIS-1,3-DICHLOROPROPENE	<5	ug/Kg	4.9	5	1.0
TRICHLOROETHENE	14	ug/Kg	4.9	5	1.0
DIBROMOCHLOROMETHANE	<5	ug/Kg	4.9	5	1.0
1,1,2-TRICHLOROETHANE	<5	ug/Kg	4.9	5	1.0
BENZENE	<24	ug/Kg	4.9	24	5.0
TRANS-1,3-DICHLOROPROPENE	<5	ug/Kg	4.9	5	1.0
BROMOFORM	<5	ug/Kg	4.9	5	1.0
4-METHYL-2-PENTANONE	<15	ug/Kg	4.9	15	3
2-HEXANONE	<20	ug/Kg	4.9	20	4
TETRACHLOROETHENE	<5	ug/Kg	4.9	5	1.0
1,1,2,2-TETRACHLOROETHANE	<5	ug/Kg	4.9	5	1.0
TOLUENE	<24	ug/Kg	4.9	24	5.0
CHLOROBENZENE	J3	ug/Kg	4.9	5	1.0
ETHYLBENZENE	<24	ug/Kg	4.9	24	5.0
STYRENE	<5	ug/Kg	4.9	5	1.0
TOTAL XYLENES	<24	ug/Kg	4.9	24	5.0

Report Notes: B, J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1991-3
SDG: BN14S1LTSD01
Report Date: 5/6/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: 20
Method: EPA 8260
Date Analyzed: 4/26/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-S1-LTSD04	SL	4/13/99	4/14/99	4/26/99	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	19	ug/Kg	4.9	5	1.0
1,3-DICHLOROBENZENE	<5	ug/Kg	4.9	5	1.0
1,4-DICHLOROBENZENE	23	ug/Kg	4.9	5	1.0
DIBROMOFLUOROMETHANE	100	%	4.9		
TOLUENE-D8	92	%	4.9		
P-BROMOFLUOROBENZENE	68	%	4.9		
1,2-DICHLOROETHANE-D4	90	%	4.9		

Report Notes: B, J

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** BN-14-S1-LTSD04

Matrix: SOIL **SDG Name:** BN14SILTSD01

Percent Solids: 20.5 **Lab Sample ID:** WP1991-003

Concentration Units (ug/L or mg/Kg dry weight): mg/Kg

CAS No.	Analyte	Concentration	C	Q	M	DF
7429-90-5	ALUMINUM	432		N	P	5
7440-36-0	ANTIMONY	2.61	U	N	P	5
7440-38-2	ARSENIC	18.3			P	5
7440-39-3	BARIUM	669			P	5
7440-41-7	BERYLLIUM	0.30	U		P	5
7440-43-9	CADMIUM	0.38	U		P	5
7440-70-2	CALCIUM	12200			P	5
7440-47-3	CHROMIUM	0.85	U		P	5
7440-48-4	COBALT	54.9			P	5
7440-50-8	COPPER	0.79	U		P	5
7439-89-6	IRON	478000			P	20
7439-92-1	LEAD	11.0			P	5
7439-95-4	MAGNESIUM	419			P	5
7439-96-5	MANGANESE	30700			P	20
7439-97-6	MERCURY	0.30			CV	1
7440-02-0	NICKEL	12.0	B		P	5
7440-09-7	POTASSIUM	940	B		P	5
7782-49-2	SELENIUM	14.9			P	5
7440-22-4	SILVER	3.6	B		P	5
7440-23-5	SODIUM	302			P	5
7440-28-0	THALLIUM	14.5	B		P	5
7440-62-2	VANADIUM	6.6	B		P	5
7440-66-6	ZINC	23.4	B		P	5

Color Before: BROWN Texture: MEDIUM

Color After: YELLOW Clarity After: CLEAR

Comments:

FORM I - IN

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1991-4
SDG: BN14S1LTSD01
Report Date: 5/6/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: 26
Method: EPA 8260
Date Analyzed: 4/26/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-S1-LTXD01	SL	4/13/99	4/14/99	4/26/99	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<8	ug/Kg	3.8	8	2.0
BROMOMETHANE	<8	ug/Kg	3.8	8	2.0
VINYL CHLORIDE	<8	ug/Kg	3.8	8	2.0
CHLOROETHANE	<8	ug/Kg	3.8	8	2.0
METHYLENE CHLORIDE	B22	ug/Kg	3.8	4	1.0
ACETONE	<19	ug/Kg	3.8	19	5
CARBON DISULFIDE	<4	ug/Kg	3.8	4	1.0
1,1-DICHLOROETHENE	<4	ug/Kg	3.8	4	1.0
1,1-DICHLOROETHANE	28	ug/Kg	3.8	4	1.0
TOTAL 1,2-DICHLOROETHENE	<4	ug/Kg	3.8	4	1.0
CHLOROFORM	B5	ug/Kg	3.8	4	1.0
1,2-DICHLOROETHANE	<4	ug/Kg	3.8	4	1.0
2-BUTANONE	<19	ug/Kg	3.8	19	5
1,1,1-TRICHLOROETHANE	<4	ug/Kg	3.8	4	1.0
CARBON TETRACHLORIDE	<4	ug/Kg	3.8	4	1.0
BROMODICHLOROMETHANE	<4	ug/Kg	3.8	4	1.0
1,2-DICHLOROPROPANE	<4	ug/Kg	3.8	4	1.0
CIS-1,3-DICHLOROPROPENE	<4	ug/Kg	3.8	4	1.0
TRICHLOROETHENE	10	ug/Kg	3.8	4	1.0
DIBROMOCHLOROMETHANE	<4	ug/Kg	3.8	4	1.0
1,1,2-TRICHLOROETHANE	<4	ug/Kg	3.8	4	1.0
BENZENE	<19	ug/Kg	3.8	19	5.0
TRANS-1,3-DICHLOROPROPENE	<4	ug/Kg	3.8	4	1.0
BROMOFORM	<4	ug/Kg	3.8	4	1.0
4-METHYL-2-PENTANONE	<11	ug/Kg	3.8	11	3
2-HEXANONE	<15	ug/Kg	3.8	15	4
TETRACHLOROETHENE	<4	ug/Kg	3.8	4	1.0
1,1,2,2-TETRACHLOROETHANE	<4	ug/Kg	3.8	4	1.0
TOLUENE	<19	ug/Kg	3.8	19	5.0
CHLOROBENZENE	<4	ug/Kg	3.8	4	1.0
ETHYLBENZENE	<19	ug/Kg	3.8	19	5.0
STYRENE	<4	ug/Kg	3.8	4	1.0
TOTAL XYLENES	<19	ug/Kg	3.8	19	5.0

Report Notes: B

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1991-4
SDG: BN14S1LTSD01
Report Date: 5/6/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: 26
Method: EPA 8260
Date Analyzed: 4/26/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-S1-LTXD01	SL	4/13/99	4/14/99	4/26/99	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	14	ug/Kg	3.8	4	1.0
1,3-DICHLOROBENZENE	<4	ug/Kg	3.8	4	1.0
1,4-DICHLOROBENZENE	14	ug/Kg	3.8	4	1.0
DIBROMOFLUOROMETHANE	111	%	3.8		
TOLUENE-D8	103	%	3.8		
P-BROMOFLUOROBENZENE	77	%	3.8		
1,2-DICHLOROETHANE-D4	99	%	3.8		

Report Notes: B

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** BN-14-S1-LTXD01

Matrix: SOIL **SDG Name:** BN14SILTSD01

Percent Solids: 26.3 **Lab Sample ID:** WP1991-004

Concentration Units (ug/L or mg/Kg dry weight): mg/Kg

CAS No.	Analyte	Concentration	C	Q	M	DF
7429-90-5	ALUMINUM	590		N	P	5
7440-36-0	ANTIMONY	2.44	U	N	P	5
7440-38-2	ARSENIC	25.3			P	5
7440-39-3	BARIUM	751			P	5
7440-41-7	BERYLLIUM	0.28	U		P	5
7440-43-9	CADMIUM	0.35	U		P	5
7440-70-2	CALCIUM	11300			P	5
7440-47-3	CHROMIUM	0.79	U		P	5
7440-48-4	COBALT	58.8			P	5
7440-50-8	COPPER	0.74	U		P	5
7439-89-6	IRON	490000			P	20
7439-92-1	LEAD	14.1			P	5
7439-95-4	MAGNESIUM	364			P	5
7439-96-5	MANGANESE	39000			P	20
7439-97-6	MERCURY	0.18			CV	1
7440-02-0	NICKEL	12.4	B		P	5
7440-09-7	POTASSIUM	922	B		P	5
7782-49-2	SELENIUM	23.5			P	5
7440-22-4	SILVER	5.1	B		P	5
7440-23-5	SODIUM	279			P	5
7440-28-0	THALLIUM	16.2	B		P	5
7440-62-2	VANADIUM	8.6	B		P	5
7440-66-6	ZINC	22.9	B		P	5

Color Before: BROWN Texture: MEDIUM

Color After: YELLOW Clarity After: CLEAR

Comments:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1991-5
SDG: BN14S1LTSD01
Report Date: 5/6/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: 25
Method: EPA 8260
Date Analyzed: 4/26/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-S1-LTSD05	SL	4/13/99	4/14/99	4/26/99	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<8	ug/Kg	4.0	8	2.0
BROMOMETHANE	<8	ug/Kg	4.0	8	2.0
VINYL CHLORIDE	<8	ug/Kg	4.0	8	2.0
CHLOROETHANE	<8	ug/Kg	4.0	8	2.0
METHYLENE CHLORIDE	B24	ug/Kg	4.0	4	1.0
ACETONE	<20	ug/Kg	4.0	20	5
CARBON DISULFIDE	<4	ug/Kg	4.0	4	1.0
1,1-DICHLOROETHENE	<4	ug/Kg	4.0	4	1.0
1,1-DICHLOROETHANE	<4	ug/Kg	4.0	4	1.0
TOTAL 1,2-DICHLOROETHENE	<4	ug/Kg	4.0	4	1.0
CHLOROFORM	B4	ug/Kg	4.0	4	1.0
1,2-DICHLOROETHANE	<4	ug/Kg	4.0	4	1.0
2-BUTANONE	<20	ug/Kg	4.0	20	5
1,1,1-TRICHLOROETHANE	<4	ug/Kg	4.0	4	1.0
CARBON TETRACHLORIDE	<4	ug/Kg	4.0	4	1.0
BROMODICHLOROMETHANE	<4	ug/Kg	4.0	4	1.0
1,2-DICHLOROPROPANE	<4	ug/Kg	4.0	4	1.0
CIS-1,3-DICHLOROPROPENE	<4	ug/Kg	4.0	4	1.0
TRICHLOROETHENE	<4	ug/Kg	4.0	4	1.0
DIBROMOCHLOROMETHANE	<4	ug/Kg	4.0	4	1.0
1,1,2-TRICHLOROETHANE	<4	ug/Kg	4.0	4	1.0
BENZENE	<20	ug/Kg	4.0	20	5.0
TRANS-1,3-DICHLOROPROPENE	<4	ug/Kg	4.0	4	1.0
BROMOFORM	<4	ug/Kg	4.0	4	1.0
4-METHYL-2-PENTANONE	<12	ug/Kg	4.0	12	3
2-HEXANONE	<16	ug/Kg	4.0	16	4
TETRACHLOROETHENE	<4	ug/Kg	4.0	4	1.0
1,1,2,2-TETRACHLOROETHANE	<4	ug/Kg	4.0	4	1.0
TOLUENE	<20	ug/Kg	4.0	20	5.0
CHLOROBENZENE	<4	ug/Kg	4.0	4	1.0
ETHYLBENZENE	<20	ug/Kg	4.0	20	5.0
STYRENE	<4	ug/Kg	4.0	4	1.0
TOTAL XYLENES	<20	ug/Kg	4.0	20	5.0

Report Notes: B, J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1991-5
SDG: BN14S1LTSD01
Report Date: 5/6/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: 25
Method: EPA 8260
Date Analyzed: 4/26/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-S1-LTSD05	SL	4/13/99	4/14/99	4/26/99	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	J2	ug/Kg	4.0	4	1.0
1,3-DICHLOROBENZENE	<4	ug/Kg	4.0	4	1.0
1,4-DICHLOROBENZENE	9	ug/Kg	4.0	4	1.0
DIBROMOFLUOROMETHANE	91	%	4.0		
TOLUENE-D8	94	%	4.0		
P-BROMOFLUOROBENZENE	64	%	4.0		
1,2-DICHLOROETHANE-D4	95	%	4.0		

Report Notes: B, J

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** BN-14-S1-LTSD05

Matrix: SOIL **SDG Name:** BN14SILTSD01

Percent Solids: 24.8 **Lab Sample ID:** WP1991-005

Concentration Units (ug/L or mg/Kg dry weight): mg/Kg

CAS No.	Analyte	Concentration	C	Q	M	DF
7429-90-5	ALUMINUM	2220		N	P	5
7440-36-0	ANTIMONY	2.31	U	N	P	5
7440-38-2	ARSENIC	2580			P	5
7440-39-3	BARIUM	92.8			P	5
7440-41-7	BERYLLIUM	0.27	U		P	5
7440-43-9	CADMIUM	0.33	U		P	5
7440-70-2	CALCIUM	5680			P	5
7440-47-3	CHROMIUM	0.75	U		P	5
7440-48-4	COBALT	17.6	B		P	5
7440-50-8	COPPER	0.70	U		P	5
7439-89-6	IRON	426000			P	20
7439-92-1	LEAD	12.4			P	5
7439-95-4	MAGNESIUM	700			P	5
7439-96-5	MANGANESE	669			P	5
7439-97-6	MERCURY	0.1	B		CV	1
7440-02-0	NICKEL	10.2	B		P	5
7440-09-7	POTASSIUM	573.08	U		P	5
7782-49-2	SELENIUM	3.28	U		P	5
7440-22-4	SILVER	0.88	U		P	5
7440-23-5	SODIUM	171			P	5
7440-28-0	THALLIUM	12.8	B		P	5
7440-62-2	VANADIUM	14.0	B		P	5
7440-66-6	ZINC	18.1	B		P	5

Color Before: BROWN Texture: MEDIUM

Color After: YELLOW Clarity After: CLEAR

Comments:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1992-9
SDG: BN14S9MW072
Report Date: 5/6/99
PO No. : 29600 47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/24/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-TRIP3	AQ	4/12/99	4/14/99	4/24/99	JSS	5030	JSS

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	B2	ug/L	1.0	1.0	1.0
ACETONE	<5	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: B

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1992-9
SDG: BN14S9MW072
Report Date: 5/6/99
PO No. : 29600 47 7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/24/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-TRIP3	AQ	4/12/99	4/14/99	4/24/99	JSS	5030	JSS

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	114	%	1.0		
TOLUENE-D8	106	%	1.0		
P-BROMOFLUOROBENZENE	98	%	1.0		
1,2-DICHLOROETHANE-D4	110	%	1.0		

Report Notes: B

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1993-9
SDG: BN14S1SW09
Report Date: 5/6/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/26/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-S1-QS002	AQ	4/13/99	4/14/99	4/26/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	B4	ug/L	1.0	1.0	1.0
ACETONE	J2	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: B, J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1993-9
SDG: BN14S1SW09
Report Date: 5/6/99
PO No. : 29600.47.7504
Project: NASB-LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/26/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-S1-QS002	AQ	4/13/99	4/14/99	4/26/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	120	%	1.0		
TOLUENE-D8	108	%	1.0		
P-BROMOFLUOROBENZENE	87	%	1.0		
1,2-DICHLOROETHANE-D4	117	%	1.0		

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services
Client Field ID: BN-14-S1-QS002
Matrix: WATER
SDG Name: BN14S1SW09
Percent Solids: 0.00
Lab Sample ID: WP1993-009

Concentration Units (ug/L or mg/Kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF
7429-90-5	ALUMINUM	20.93	U		P	1
7440-36-0	ANTIMONY	1.81	U		P	1
7440-38-2	ARSENIC	2.07	U		P	1
7440-39-3	BARIUM	0.12	U	E	P	1
7440-41-7	BERYLLIUM	0.21	U		P	1
7440-43-9	CADMIUM	0.26	U		P	1
7440-70-2	CALCIUM	37.0	B		P	1
7440-47-3	CHROMIUM	1.3	B		P	1
7440-48-4	COBALT	0.64	U		P	1
7440-50-8	COPPER	2.1	B		P	1
7439-89-6	IRON	41.3	B		P	1
7439-92-1	LEAD	1.3	B		P	1
7439-95-4	MAGNESIUM	11.8	B		P	1
7439-96-5	MANGANESE	0.58	B		P	1
7439-97-6	MERCURY	0.02	U		CV	1
7440-02-0	NICKEL	0.85	U		P	1
7440-09-7	POTASSIUM	449.54	U		P	1
7782-49-2	SELENIUM	2.57	U		P	1
7440-22-4	SILVER	1.8	B		P	1
7440-23-5	SODIUM	82.8	B		P	1
7440-28-0	THALLIUM	4.49	U		P	1
7440-62-2	VANADIUM	0.62	U		P	1
7440-66-6	ZINC	1.1	B		P	1

Color Before: COLORLESS
Clarity Before: CLEAR
Color After: COLORLESS
Clarity After: CLEAR
Comments:

FORM I - IN

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1994-7
SDG: BN14EPSW12
Report Date: 5/25/99
PO No. : 29600 47.7504
Project: NASB LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/25/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-EP-QD001	AQ	4/12/99	4/14/99	4/25/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	B1	ug/L	1.0	1.0	1.0
ACETONE	<5	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: B

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETER NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP1994-7
SDG: BN14EPSW12
Report Date: 5/25/99
PO No. : 29600.47.7504
Project: NASB LTMP14
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/25/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-14-EP-QD001	AQ	4/12/99	4/14/99	4/25/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1 0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	98	%	1.0		
TOLUENE-D8	99	%	1.0		
P-BROMOFLUOROBENZENE	99	%	1.0		
1,2-DICHLOROETHANE-D4	98	%	1.0		

Report Notes: B

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** BN-14-EP-QD001

Matrix: WATER **SDG Name:** BN14EPSW12

Percent Solids: 0.00 **Lab Sample ID:** WP1994-007

Concentration Units (ug/L or mg/Kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF
7429-90-5	ALUMINUM	10.76	U		P	1
7440-36-0	ANTIMONY	1.81	U		P	1
7440-38-2	ARSENIC	2.07	U		P	1
7440-39-3	BARIUM	0.48	U		P	1
7440-41-7	BERYLLIUM	0.33	U		P	1
7440-43-9	CADMIUM	2.6	B		P	1
7440-70-2	CALCIUM	34.1	B		P	1
7440-47-3	CHROMIUM	4.31	U		P	1
7440-48-4	COBALT	4.45	U		P	1
7440-50-8	COPPER	1.62	U		P	1
7439-89-6	IRON	4.7	B		P	1
7439-92-1	LEAD	2.3	B		P	1
7439-95-4	MAGNESIUM	17.16	U		P	1
7439-96-5	MANGANESE	0.97	U		P	1
7439-97-6	MERCURY	0.02	U		CV	1
7440-02-0	NICKEL	13.21	U		P	1
7440-09-7	POTASSIUM	449.54	U		P	1
7782-49-2	SELENIUM	2.57	U		P	1
7440-22-4	SILVER	2.54	U		P	1
7440-23-5	SODIUM	69.9	B		P	1
7440-28-0	THALLIUM	4.49	U		P	1
7440-62-2	VANADIUM	3.58	U		P	1
7440-66-6	ZINC	0.48	U		P	1

Color Before: COLORLESS Clarity Before: CLEAR

Color After: COLORLESS Clarity After: CLEAR

Comments:

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