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NAS BRUNSWICK
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Final Report

Quarterly Monitoring Event 5 - February 1996
Building 95, Naval Air Station, Brunswick, Maine

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

Prepared for

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

Prepared by

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

July 1996
296.0047

QUALITY REVIEW STATEMENT

EA Project Number: 29600.47

Description of Report/Deliverable:

Final Report, Quarterly Monitoring Event 5 - February 1996, Building 95, Naval Air Station, Brunswick, Maine

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

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

Senior Technical Reviewer(s)

Gloria D. McCleary, P.E., Senior Engineer
Maine P.E. Registration No. 4885

2/1/96
Date

29600.47

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Michael S. Battle 1 JULY 1996

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

1 JUL 96

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

July 1996

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1. PROJECT ACTIVITIES

1.1 INTRODUCTION

Under Contract No. N62472-92-D-1296, Contract Task Order (CTO) No. 0047, Northern Division, Naval Facilities Engineering Command contracted with EA Engineering, Science, and Technology to perform long-term monitoring at Building 95 at Naval Air Station, Brunswick, Maine. Naval Air Station (NAS) Brunswick is located south of the Androscoggin River between Brunswick and Bath, Maine (Figure 1). Figure 2 provides the layout for the Building 95 site.

At the Building 95 site, the Navy is required to perform long-term monitoring, maintenance, and corrective measures as part of the long-term remedial actions required by the Action Memorandum dated April 1993 (ABB-ES 1993). A Long-Term Monitoring Plan (LTMP) was established pursuant to these Records of Decision (ABB-ES 1994). The LTMP document establishes the requirement for monitoring/sampling to be conducted on a quarterly basis for 5 years. Although sampling is planned for a 30-year period, review evaluations will provide a basis for continued sampling and proposing refinements/alterations to the monitoring program or remedial activity, if appropriate.

1.2 MEASUREMENT OF WATER LEVEL ELEVATIONS

Water level measurements were initially obtained on 14 February 1996 at the 4 ground-water monitoring wells located at the Building 95 site. Additional well gauging data were collected on 22 February 1996 prior to collection of the ground-water samples. Wells included in the gauging program are summarized in Table 1; the locations of the wells are provided on Figure 2. Well gauging techniques are detailed in the Quarterly Monitoring Event 4 Report (EA 1996).

1.3 GROUND-WATER MONITORING, SAMPLING, AND ANALYSIS

The ground-water sampling program was performed on 22 February 1996 in accordance with the general methodologies established in the LTMP (ABB-ES 1994). Previously installed dedicated Grundfos Redi-Flo2 stainless steel and Teflon® submersible pumping systems were utilized for sample collection. Ground-water samples were collected from each of the 4 wells using the low flow sampling technique, which is detailed in the Quarterly Monitoring Event 4 Report (EA 1996). Figure 3 provides a schematic of a dedicated submersible pump assembly installed in a monitoring well.

Water quality indicator parameters, including pH, conductivity, temperature, and turbidity were monitored. Stabilization of water quality indicator parameters is observed when measurements agree within 10 percent on three successive readings.

Ground-water samples were collected for analysis of the following: Target Compound List (TCL) VOC plus a library search of 15 tentatively identified compounds by EPA Method 8260; TCL semivolatile organic compounds (SVOC) plus a library search of 20 tentatively identified compounds by EPA Method 8270; TCL pesticides by EPA Method 8080; pyrethrins and rotenone by modified EPA Method 8310; and Target Analyte List elements, including metals by trace inductively coupled plasma by EPA Method 6010 and cold vapor atomic adsorption (mercury only) by EPA Method 7470, and cyanide by EPA Method 9010.

1.4 VISUAL INSPECTION

Site inspection activities were completed on 22 February 1996 by a civil engineer in accordance with the LTMP (ABB-ES 1994). The results of the site inspection activities indicated no evidence of stressed vegetation in the site vicinity, nor any evidence of animal burrowing in the vicinity of the soil/debris removal area. Inspection of the excavated area confirmed no exposures of the geotextile cover at the ground surface. Evergreen trees appeared alive and healthy. No physical evidence of tampering at the site wells was evident. All 4 wells were observed to be unlocked and do not have lock hasps.

1.5 QUALITY ASSURANCE/QUALITY CONTROL

A rigorous quality assurance/quality control program is required by the LTMP to meet the data quality objectives of the ground-water sampling program, as outlined in the Quality Assurance Project Plan contained in the LTMP (ABB-ES 1994). The data obtained during the February 1996 sampling event were determined to be of sufficient quality to be used to evaluate ground-water quality conditions following completion of the removal action at the Building 95 site. Sample data were noted both in field logbooks and on the field record forms contained in Appendix A.

1.6 ANALYTICAL DATA QUALITY REVIEW

As required by the LTMP (ABB-ES 1994), review of laboratory data was performed on selected quality control parameters to evaluate precision, accuracy, completeness, and data quality objective requirements. A summary of the analytical data quality review is provided in Appendix B.

2. MONITORING EVENT RESULTS

2.1 WATER LEVEL GAUGING PROGRAM RESULTS

Water level measurements were initially obtained on 14 February 1996 at the 4 monitoring wells located at the Building 95 site. Ground-water potentiometric elevations measured on 14 February 1996 are provided in Table 2.

All monitoring wells were observed to be in good condition. There were no observations that would indicate any physical tampering of the site wells.

Based on the water table elevation data, the dominant direction of ground-water flow in the shallow water table is to the southeast, consistent with historic data. Figure 4 provides the interpreted direction of ground-water flow.

The hydraulic gradient across the subject site is characterized as shallow at 1.1 percent (0.011 feet per foot), as measured parallel to the direction of ground-water flow).

2.2 WATER QUALITY INDICATOR PARAMETERS

Water quality indicator parameters were measured during the collection of ground-water samples according to the methods specified in the LTMP (ABB-ES 1994). The results of water quality indicator parameter measurements taken at the time samples were collected are summarized in Table 3. Field records of well gauging and sampling are provided in Appendix A.

2.3 GROUND WATER

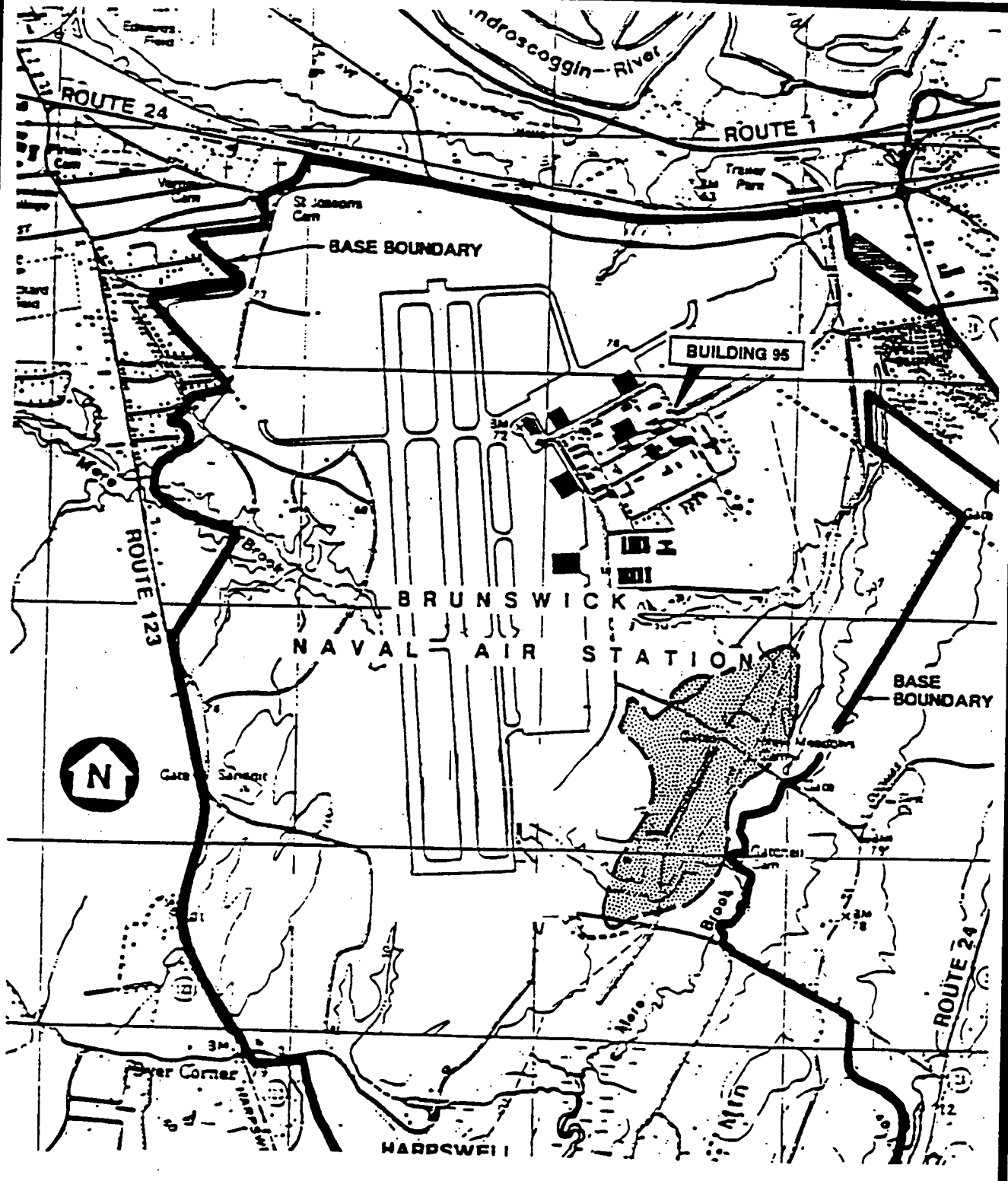
Table 4 provides a summary of the analytical results for ground-water samples collected at the Building 95 site on 22 February 1996. Appendix C provides a summary table of the tentatively identified compounds (SVOC) reported in the ground-water samples. Appendix D contains the summary tables for the analyses completed. Figure 2 provides monitoring well locations.

Data generated as a result of the fifth quarterly sampling event indicate that no VOC were detected at reportable concentrations in the ground-water samples. Acetone and 1,2-dichloroethane were reported at low concentrations in the trip blank associated with ground-water samples and were not reported in ground-water samples. These compounds are considered laboratory artifacts. One SVOC was reported in 1 ground-water sample (Table 4). This SVOC (bis[2-ethylhexyl]phthalate) is considered a laboratory contaminant.

Notable results of ground-water sampling during Quarterly Monitoring Event 5 include:

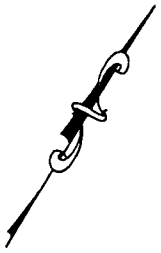
- Total pyrethrins were reported in MW-NASB-065 and the duplicate sample collected at MW-NASB-068 at concentrations of 9.3 μg/L and 1.5 μg/L, respectively.

- Reported concentrations of manganese exceeded the State Maximum Exposure Guideline of 200 μg/L in 2 wells MW-NASB-066 (218 μg/L) and MW-NASB-068 (647 μg/L) and the associated duplicate sample (604 μg/L).



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

Figure 1. Site location map for Building 95, Naval Air Station, Brunswick, Maine.

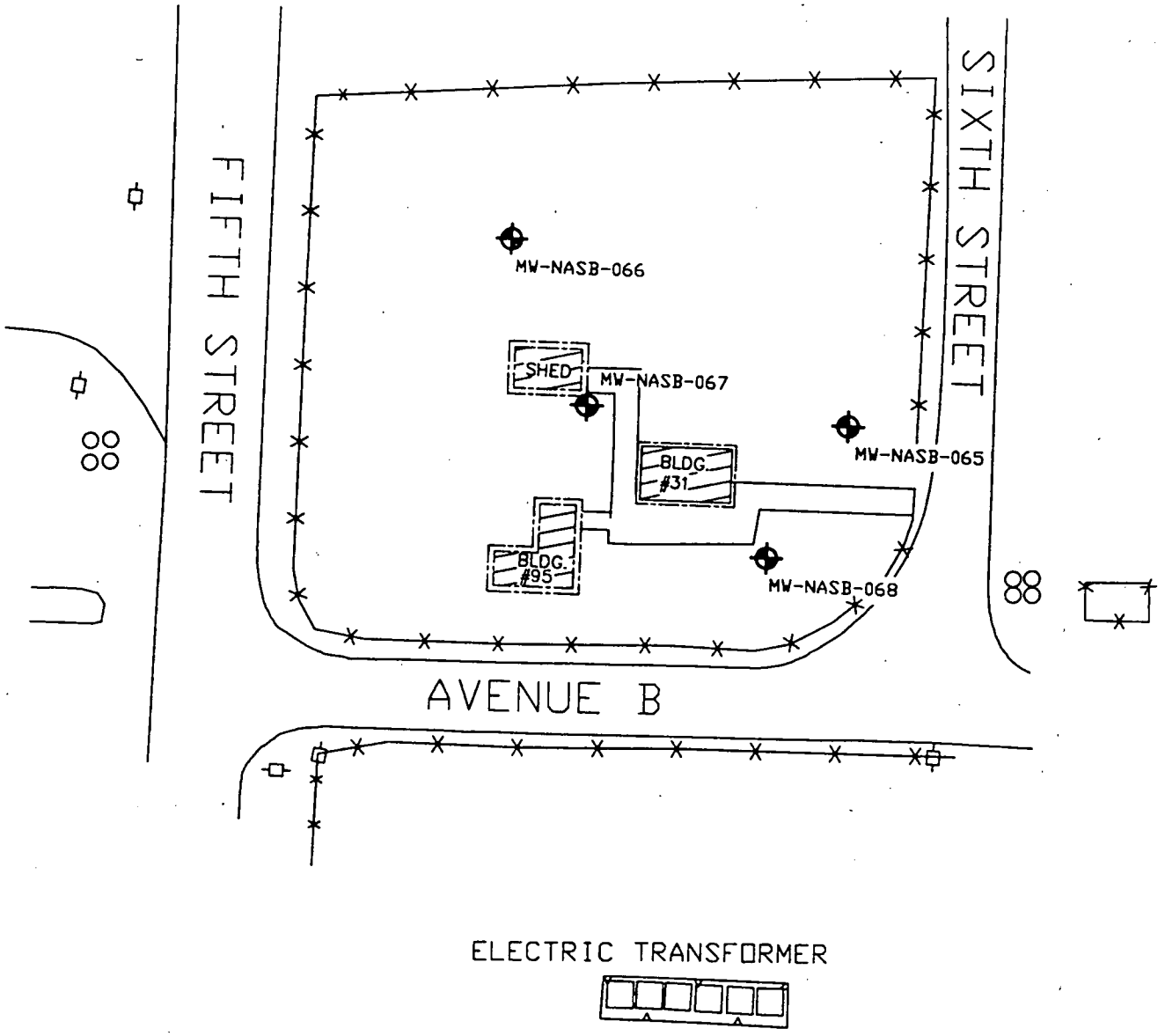


LEGEND

MW-NASB-065 MONITORING WELL

FORMER BUILDINGS

CHAIN LINK FENCE



45' 0 45'

APPROXIMATE SCALE

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

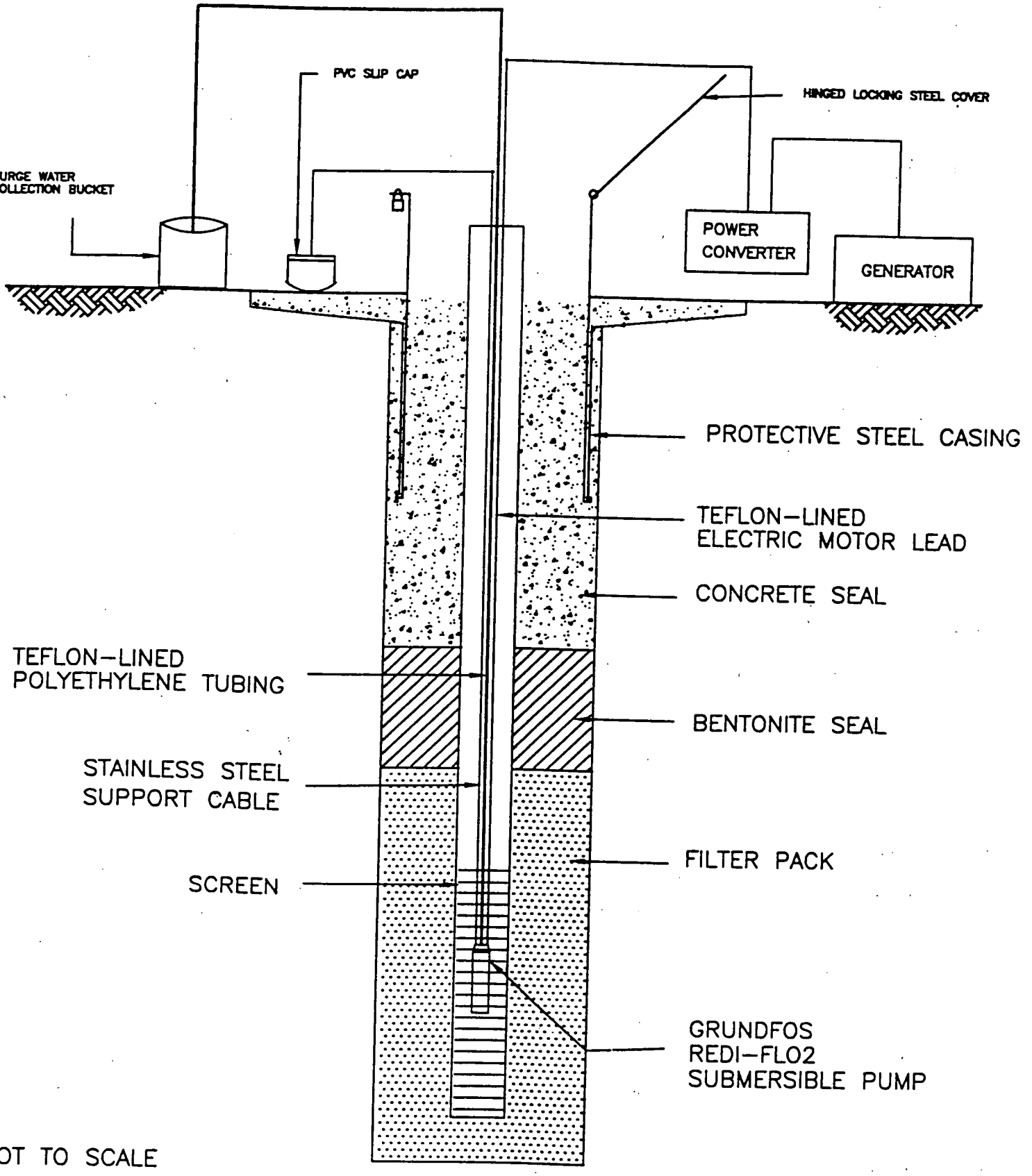
DWG. FILE No. F:\CAD\29600\47\BLD-95-2

EA ENGINEERING, SCIENCE, AND TECHNOLOGY

BUILDING 95
NAVAL AIR STATION
BRUNSWICK, MAINE

FIGURE 2
SITE PLAN

PROJECT MGR	DESIGNED BY	DRAWN BY	CHECKED BY	SCALE	DATE	PROJECT NO	FILE No.
MSB		SY	MSB	AS SHOWN	13 DEC 95	29600.47	BLD95EV4



NOT TO SCALE

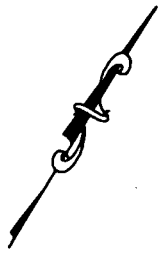
DWG. FILE No. F:\CAD\AGWELL

EA ENGINEERING, SCIENCE, AND TECHNOLOGY

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

FIGURE 3

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



LEGEND

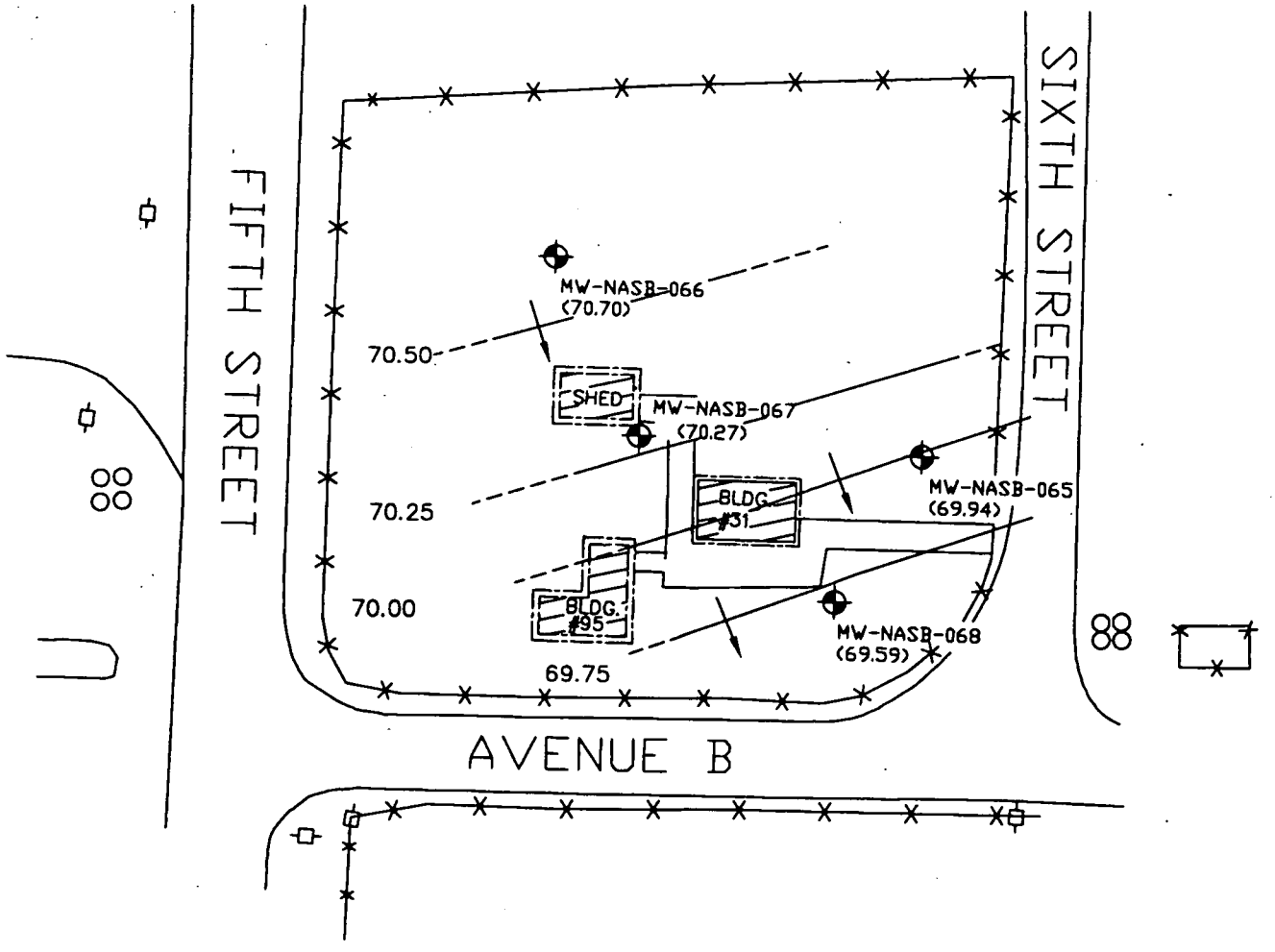
MW-NASB-065 (69.94) — MONITORING WELL (WATER TABLE ELEVATION, FT. MSL.)

INTERPRETED DIRECTION OF GROUND-WATER FLOW

69.75 — INTERPRETED POTENTIOMETRIC SURFACE; DASHED WHERE INFERRED (CONTOUR INTERVAL = 0.25 FT)

FORMER BUILDINGS

CHAIN LINK FENCE



WELL DESIGNATION	WELL RISER ELEVATION (FT. MSL.)
MW-NASB-065	74.33
MW-NASB-066	78.81
MW-NASB-067	74.38
MW-NASB-068	74.79

DWG. FILE No. F:\CAD\29600\47\BLD95EV5

EA ENGINEERING, SCIENCE, AND TECHNOLOGY

BUILDING 95
NAVAL AIR STATION
BRUNSWICK, MAINE

FIGURE 4
INTERPRETED WATER TABLE ELEVATIONS, 14 FEB 1996 WELL GAUGING DATA

PROJECT MGR	DESIGNED BY	DRAWN BY	CHECKED BY	SCALE	DATE	PROJECT NO	FILE No.
MSB	PLN	SY	MSB	AS SHOWN	19 APRIL 1996	29600.47	BLD95EV5

TABLE 1 SUMMARY OF LONG-TERM MONITORING PROGRAM AT BUILDING 95, NAVAL AIR STATION, BRUNSWICK, MAINE

Sample Location	Sampling Frequency	Sample Parameters						Event 5	
		TCL VOC	TCL SVOC	TCL Pesticides	Rotenone/ Pyrethrins	TAL Elements	Field Parameters[a]	Gauged	Sampled
Monitoring Wells									
MW-NASB-065	Quarterly	X	X	X	X	X	X	X	X
MW-NASB-066	Quarterly	X	X	X	X	X	X	X	X
MW-NASB-067	Quarterly	X	X	X	X	X	X	X	X
MW-NASB-068	Quarterly	X	X	X	X	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 180.1), and dissolved oxygen (Method 360.1). Includes water level measurement.

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

TABLE 2 MONITORING WELL GAUGING SUMMARY BUILDING 95, NAVAL AIR STATION, BRUNSWICK, MAINE

Well Designation	Previous Well Designation	Well Riser Elevation (ft MSL)	Gauging Data (14 February 1996)		
			Depth to Well Bottom (ft below top of PVC well riser)	Depth to Water (ft below top of PVC well riser)	Water Table Elevation (ft MSL)
Monitoring Wells					
MW-NASB-065	MW-95-01	74.33	15.50	4.39	69.94
MW-NASB-066	MW-95-02	78.81	19.79	8.11	70.70
MW-NASB-067	MW-95-03	74.38	15.00	4.11	70.27
MW-NASB-068	MW-95-04	74.79	15.05	5.20	69.59

NOTE: MSL = Mean sea level.

TABLE 3 SUMMARY OF WATER QUALITY INDICATOR PARAMETERS MEASURED IN GROUND-WATER SAMPLES COLLECTED ON 22 FEBRUARY 1996 AT BUILDING 95, NAVAL AIR STATION, BRUNSWICK, MAINE

Well Designation	Previous Well Designation	pH	Temperature (°C)	Conductivity (μmhos/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
Monitoring Wells						
MW-NASB-065	MW-95-01	5.61	8.8	178	0.86	6
MW-NASB-066	MW-95-02	5.62	12.0	170	0.52	7
MW-NASB-067	MW-95-03	5.98	9.7	178	0.31	8
MW-NASB-068	MW-95-04	5.48	9.5	122	0.24	4

NOTE: NTU = Nephelometric turbidity unit.

TABLE 4 SUMMARY OF ANALYTICAL RESULTS FOR GROUND-WATER SAMPLES COLLECTED ON 22 FEBRUARY 1996 AT BUILDING 95, NAVAL AIR STATION, BRUNSWICK, MAINE

Analyte	Practical Quantitation Limit	MW-NASB-065	MW-NASB-066	MW-NASB-067	MW-NASB-068	MW-NASB-068 DUP	QT-006	MEG[a]	MCL[b]
VOLATILE ORGANIC COMPOUNDS BY EPA METHOD 8260 (μg/L)									
Acetone	5.0	(<5U)	(<5U)	(<5U)	(<5U)	(<5U)	12	---	---
1,2-Dichloroethane	2.0	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	1J	5	5
SEMIVOLATILE ORGANIC COMPOUNDS BY EPA METHOD 8270 (μg/L)									
bis(2-ethylhexyl)phthalate	10	(<10U)	(<10U)	42	(<10U)	(<10U)	NR	---	---
PESTICIDES BY EPA METHOD 8080 (μg/L)									
4,4'-DDT	0.1	(<0.1U)	(<0.1U)	0.072J	(<0.1U)	(<0.1U)	NR	0.83	---
4,4'-DDD	0.1	(<0.1U)	(<0.1U)	0.052J	(<0.1U)	(<0.1U)	NR	---	---
TOTAL PYRETHRINS AND ROTENONE BY EPA METHOD 8310 (MODIFIED) (μg/L)									
Total pyrethrins	1.4	9.3	(<1.0U)	(<1.0U)	(<1.0U)	1.5	NR	---	---
Rotenone	17	3.3	(<0.5U)	(<0.5U)	(<0.5U)	(<0.5U)	NR	4	---

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

NOTE: U = Not detected. Sample quantitation limits are shown as (<____U).
J = Estimated concentration below detection limit.
NR = Analysis not required.
B* = Analyte concentration is between the instrument detection limit and the Contract Required Detection Limit.
QT = Trip blank.
Only those analytes detected in at least one of the samples, and the contaminants of concern listed in the LTMP (ABB-ES 1994), are shown on this table.
Concentrations in bold denote exceedance of MEG and MCL (primary levels).

Analyte	Practical Quantitation Limit	MW-NASB-065	MW-NASB-066	MW-NASB-067	MW-NASB-068	MW-NASB-068 DUP	QT-006	MEG[a]	MCL[b]
TARGET ANALYTE LIST ELEMENTS BY SW-846 6000/7000 SERIES METHODS (μg/L)									
Aluminum	100.0	410	676	665	166B*	157B*	NR	1,430	50-200[c]
Barium	5.0	18.7B*	39.9B*	18.7B*	25.6B*	23.6B*	NR	1,500	2,000
Calcium	50.0	18,000	5,960	5,670	13,800	12,800	NR	---	---
Chromium	15.0	1.8B*	24.3	1.8B*	0.82B*	0.90B*	NR	100	100
Cobalt	30.0	1.5B*	2.2B*	(<0.71U)	2.3B*	2.0B*	NR	---	---
Copper	25.0	2.3B*	5.0B*	2.1B*	2.1B*	2.1B*	NR	---	1,300[d]
Iron	25.0	837	2,920	2,020	282	271	NR	---	300[c]
Lead	5.0	2.1B*	2.3B*	1.5B*	2.1B*	1.2B*	NR	---	15[d]
Magnesium	50.0	1,780B*	1,250B*	662B*	2,210B*	2,080B*	NR	---	---
Manganese	5.0	126	**218**	54.3	**647**	**604**	NR	200	50[c]
Mercury	0.2	0.14B*	(<0.10U)	(<0.10U)	0.15B*	(<0.10U)	NR	2	2
Nickel	40.0	1.8B*	18.2B*	1.5B*	1.9B*	2.0B*	NR	100	100
Potassium	1,000.0	1,040B*	1,290B*	1,810B*	2,710B*	2,210B*	NR	---	---
Sodium	100.0	16,000	39,700	27,100	20,400	19,100	NR	---	---
Vanadium	25.0	3.9B*	3.3B*	5.1B*	3.9B*	3.1B*	NR	---	---
Zinc	25.0	10.4B*	90.6	10.1B*	8.0B*	(<6.8U)	NR	---	5,000[d]
Cyanide	20.0	(<1.3U)	(<1.3U)	1.5B*	2.5B*	(<1.3U)	NR	154	200

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

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ABB-ES. 1994. Final Long-Term Monitoring Plan for Building 95, Sites 1 and 3 and Eastern Plume, Naval Air Station, Brunswick, Maine. August.

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State of Maine Department of Human Services. 1992. Summary of State and Federal Drinking Water Guidelines. Revised September. Bureau of Health - Environmental Toxicology Program. 23 October.

U.S. Environmental Protection Agency (U.S. EPA). 1994. National Primary Drinking Water Standards. Office of Water, Washington, D.C. EPA 610-P-94-001. February.

Appendix A

Field Monitoring and Sampling Forms

A.1 Field Record of Well Gauging Form
A.2 Field Record of Well Gauging, Purging, and Sampling Forms

Appendix A.1

Field Record of Well Gauging Form

EA ENGINEERING, SCIENCE, AND TECHNOLOGY, INC.

FIELD RECORD OF WELL GAUGING

Project Name: BNAS, Site 95	Project No: 29600.47/7200	Date: 14 February 1996
Weather/Temperature: Cold, Cloudy, Slight breeze, 11°F		
EA Personnel: Kurt Ilkei, Karen Ruszczyk	Equipment: Foxboro OVA # 1504.3, sloper indicator #2359	

	Well No.	Labeled/ Capped	Well Locked	VOCs Concentration (ppm) Air Ambient ppm	VOCs Concentration (ppm) Well Mouth ppm	Casing/Seal Condition	Protective Casing Elevation (ft)	PVC Casing Elevation (ft)	Depth to Water (ft)	Measured Well Depth (ft)	Water Table Elevation (ft)
MW-	NASB-065	yes/yes	no	0.0	0.0	good/good			4.39		
MW-	NASB-068	yes/yes	no	0.0	0.0	good/good			5.20		
MW-	NASB-067	yes/yes	no	0.0	0.0	good/good			4.11		
MW-	NASB-066	yes/yes	no *	0.0	0.0	good/good			8.11		

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

* lock on well, but not locked – Broken tab

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BX ✓ 2/14

Appendix A.2

Field Record of Well Gauging, Purging, and Sampling Forms

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: Site 95
WELL I.D.: MW-NASB-0605
WELL CONDITION: good

PROJECT NUMBER: 29600.47/0200
WELL LOCK STATUS: no lock
WEATHER: cloudy, warmer, 45°F

GAUGE DATE: 2/22/96
SOUNDING METHOD: slope indicator
STICK UP/DOWN (ft): 1.80'

GAUGE TIME: 0845
MEASUREMENT REF: top of pipe
WELL DIAMETER (in.): 2"

PURGE DATE: 2/22/96
PURGE METHOD: IW + HW
AMBIENT AIR VOCs (ppm) Start: 0 End: 0

PURGE TIME: 0850
FIELD PERSONNEL: KR, KI, TC
WELL MOUTH VOCs (ppm): Start: 0 End: 0

WELL VOLUME

A. WELL DEPTH (ft): 15.50'
B. DEPTH TO WATER (ft): 3.20'
C. LIQUID DEPTH (ft) (A-B): 12.30'
D. WELL VOLUME/FT (L): 0.605
E. WELL VOLUME (L) (C*D): 7.44
F. THREE WELL VOLUMES (L) (E*3): 22.32

PARAMETER	BEGINNING	1	2	3	4	5
TIME (min)	0853	0856	0859	0902		
DEPTH TO WATER (ft)	3.65'	3.70'	3.70'	3.70'		
PURGE RATE (l/min)	1.0L	1.0L	1.0L	1.0L		
VOLUME PURGED (L)	3.0L	6.0L	9.0L	12.0L		
pH	5.55	5.58	5.60	5.61		
TEMPERATURE (C)	8.5	8.8	8.8	8.8		
CONDUCTIVITY (μmhos/cm)	0.180	0.180	0.178	0.178		
DISSOLVED OXYGEN (μg/L)	0.78	0.80	0.86	0.86		
TURBIDITY (NTU)	1	1	3	6		

TOTAL QUANTITY OF WATER REMOVED (L): 49.0L

SAMPLERS: TC, KR, KI
SAMPLING TIME (START/END): 0907/0939
SAMPLING DATE: 2/22/96
DECONTAMINATION FLUIDS USED: none
SAMPLE TYPE: Grab
SAMPLE PRESERVATIVES: 1:1 HCl, HNO_3, NaOH
SAMPLE BOTTLE IDs: BN-05-95-MW001 (MS/MSD)
SAMPLE PARAMETERS: VOAs, Tal Elements, Cyanide, SVOCs, Pesticides, Rotenone/Pyrethrins

COMMENTS AND OBSERVATIONS: MS/MSD done here
Grundfos box set at lowest possible setting, + high water table (1.0L - lowest rate possible)
YSI #3 used

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: Site 95
WELL I.D.: MW-NASB-01
WELL CONDITION: good

PROJECT NUMBER: 29600.417/7200
WELL LOCK STATUS: ~~[illegible]~~ lock not locking
WEATHER: Cloudy, warmer, 45°F

GAUGE DATE: 2/22/96
SOUNDING METHOD: Steel indicator
STICK UP/DOWN (ft): 2.00'

GAUGE TIME: 2/ 0955
MEASUREMENT REF: top of pipe
WELL DIAMETER (in.): 2"

PURGE DATE: 2/22/96
PURGE METHOD: IDU + flow
AMBIENT AIR VOCs (ppm) Start: 0 End: 0

PURGE TIME: 1000
FIELD PERSONNEL: TC, KR, KI
WELL MOUTH VOCs (ppm): Start: 0 End: 0

WELL VOLUME

A. WELL DEPTH (ft): ~~15.50~~ 19.79
B. DEPTH TO WATER (ft): 7.55
C. LIQUID DEPTH (ft) (A-B): ~~7.95~~ 12.24

D. WELL VOLUME/FT (L): 0.605
E. WELL VOLUME (L) (C*D): ~~4.81~~ 7.41
F. THREE WELL VOLUMES (L) (E*3): ~~14.43~~ 22.23

PARAMETER	BEGINNING	1	2	3	4	5
TIME (min)	1003	1009	1006	1021	1024	1027
DEPTH TO WATER (ft)	7.95	7.62	7.65	7.65	7.65	7.65
PURGE RATE (l/min)	.2	.2	.2	.2	.2	.2
VOLUME PURGED (L)	0.6	1.8	3.2	4.2	4.8	5.4
pH	5.73	5.63	5.60	5.61	5.62	5.62
TEMPERATURE (C)	8.7	10.5	11.5	11.9	12.0	12.0
CONDUCTIVITY (μmhos/cm)	0.122	0.162	0.168	0.162	0.168	0.170
DISSOLVED OXYGEN (μg/L)	0.73	0.67	0.65	0.56	0.55	0.52
TURBIDITY (NTU)	31	18	10	9	8	7

TOTAL QUANTITY OF WATER REMOVED (L): 15 L

SAMPLERS: TC, KR, KI
SAMPLING TIME (START/END): 1030 / 1115
SAMPLING DATE: 2/22/96
DECONTAMINATION FLUIDS USED: none
SAMPLE TYPE: Grab
SAMPLE PRESERVATIVES: 1:1 HCl, HNO_3, NaOH
SAMPLE BOTTLE IDs: BN-05-95-MW004
SAMPLE PARAMETERS: VOAs, SVOCs, Pesticides, Tal Elements, Cyanide, Rotenone, Dysethuria
COMMENTS AND OBSERVATIONS: YSI #1 used

~~Due to~~

1 of 2

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: Site 95
WELL I.D.: MW-NASB-007
WELL CONDITION: good

PROJECT NUMBER: 29600.47/17 200
WELL LOCK STATUS: no lock
WEATHER: Cloudy, warm, 45°F

GAUGE DATE: 2/22/96
SOUNDING METHOD: slope indicator
STICK UP/DOWN (ft): 1.20'

GAUGE TIME: 0957
MEASUREMENT REF: top of pipe
WELL DIAMETER (in.): 2"

PURGE DATE: 2/22/96
PURGE METHOD: low flow

PURGE TIME: 1000
FIELD PERSONNEL: TC, KR, KI

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

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

WELL VOLUME

A. WELL DEPTH (ft): 15.00'
B. DEPTH TO WATER (ft): 3.74'
C. LIQUID DEPTH (ft) (A-B): 11.26'
D. WELL VOLUME/FT (L): 0.605
E. WELL VOLUME (L) (C*D): 6.81
F. THREE WELL VOLUMES (L) (E*3): 20.43

PARAMETER	BEGINNING	1	2	3	4	5
TIME (min)	1003	1006	1009	1013	1017	1021
DEPTH TO WATER (ft)	4.04	4.00	4.00	3.99	4.00	3.98'
PURGE RATE (l/min)	.8L	.8L	.8L	.8L	.8L	.8L
VOLUME PURGED (L)	2.4L	4.8L	7.2L	10.4L	13.6L	16.8L
pH	6.08	6.00	5.97	5.94	5.95	5.95
TEMPERATURE (C)	8.7	8.9	9.0	8.9	8.9	8.9
CONDUCTIVITY (μmhos/cm)	0.182	0.184	0.180	0.180	0.184	0.180
DISSOLVED OXYGEN (μg/L)	0.55	0.44	0.39	0.36	0.30	0.28
TURBIDITY (NTU)	28	20	16	9	9	8

TOTAL QUANTITY OF WATER REMOVED (L): 44.0L

SAMPLERS: TC, KR, KI
SAMPLING TIME (START/END): 1037/1055
SAMPLING DATE: 2/22/96
DECONTAMINATION FLUIDS USED: none
SAMPLE TYPE: Grab
SAMPLE PRESERVATIVES: 1:1 HCl, HNO_3, NaOH
SAMPLE BOTTLE IDs: BN-05-95-MW003
SAMPLE PARAMETERS: VOAs, Tal Elements, Cyanide, Pesticides, Radionuclides/Lithium, SVOC

COMMENTS AND OBSERVATIONS: * Due to high water table - Grundfos box was set at lowest possible setting to provide lowest possible flow.
YSI # 3 used

EA Engineering, Science, and Technology

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

Site Name: Site 95	Project No.: 29[illegible]	Date: 22 February 96
Well ID: MW-NASB-C07	Field Personnel: KR, KI, TC	

Parameter	6	7	8	9	10	11
Time (min.)	1024	1028	1032	1035		
Depth to Water (ft)	4.00	3.86	3.84	3.96		
Purge Rate (L/min)	.8L	.8L	.8L	.8L		
Volume Purged (L)	19.2L	22.4L	25.6L	28.0L		
pH	5.95	5.96	5.98	5.98		
Temperature (°C)	8.9	9.3	9.6	9.7		
Conductivity (μmhos/cm)	0.180	0.178	0.178	0.178		
Dissolved Oxygen (mg/L)	0.25	0.33	0.31	0.31		
Turbidity (NTU)	7	9	9	8		

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)						

COMMENTS AND OBSERVATIONS

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: Site 95
WELL I.D.: MW-NASB ~~[illegible]~~
WELL CONDITION: good 063

PROJECT NUMBER: 29600.47/7.200
WELL LOCK STATUS: no lock
WEATHER: cloudy, no breeze 45°F

GAUGE DATE: 2/22/96
SOUNDING METHOD: Slope indicator
STICK UP/DOWN (ft): 2.05'

GAUGE TIME: 0840
MEASUREMENT REF: top of pipe
WELL DIAMETER (in.): 4"

PURGE DATE: 2/22/96
PURGE METHOD: low flow
AMBIENT AIR VOCs (ppm) Start: 0 End: 0

PURGE TIME: 0846
FIELD PERSONNEL: KR, KI, TC
WELL MOUTH VOCs (ppm): Start: 0 End: 0

WELL VOLUME

A. WELL DEPTH (ft): 15.05
B. DEPTH TO WATER (ft): 4.49
C. LIQUID DEPTH (ft) (A-B): 10.56
D. WELL VOLUME/FT (L): 0.605
E. WELL VOLUME (L) (C*D): 6.39
F. THREE WELL VOLUMES (L) (E*3): 19.17

PARAMETER	BEGINNING	1	2	3	4	5
TIME (min)	0848	0853	0856	0859		
DEPTH TO WATER (ft)	4.80	4.70	4.60	4.55		
PURGE RATE (l/min)	1.0	1.0	.5	.5		
VOLUME PURGED (L)	2.0	7.0	8.5	10.0		
pH	5.37	5.44	5.46	5.48		
TEMPERATURE (C)	8.3	8.9	9.1	9.5		
CONDUCTIVITY (μmhos/cm)	0.128	0.122	0.122	0.122		
DISSOLVED OXYGEN (μg/L)	0.28	0.24	0.24	0.24		
TURBIDITY (NTU)	11	6	5	4		

TOTAL QUANTITY OF WATER REMOVED (L): 33 L

SAMPLERS: TC, KR, KI
SAMPLING TIME (START/END): 0910/0945
SAMPLING DATE: 2/22/96
DECONTAMINATION FLUIDS USED: none
SAMPLE TYPE: Grab
SAMPLE PRESERVATIVES: 1:1 HCl, HNO_3, NaOH
SAMPLE BOTTLE IDs: BN-05-95-MW002
SAMPLE PARAMETERS: VOAS, Tot Elements, cyanide, SVOC,

COMMENTS AND OBSERVATIONS: Duplicate done here, BN-05-95-MWXD1
* Due to high water table - grundfos box was set at lowest possible setting to provide lowest possible flow.
YSI #1 used

Appendix B

Analytical Data Quality Review

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APPENDIX B

REVIEW OF ANALYTICAL QUALITY CONTROL

B.1 INTRODUCTION

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

The sampling program consisted of 4 aqueous (monitoring well) samples collected from the Building 95 site. One aqueous sample delivery group (SDG) was provided to the laboratory. Sample duplicates and trip blanks were collected at the frequency required by the QAPP. Equipment rinsate blanks were not required due to the use of dedicated pumping systems.

Analytical quality control was reviewed for compliance with the data quality objectives of 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) value from the matrix spike/matrix spike duplicates (MS/MSD) for organic analysis and the RPD value from the laboratory duplicates for inorganic analysis. Accuracy was based upon the reported spike recoveries for the laboratory control samples (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 MS/MSDs and recoveries are used to measure potential bias due to matrix effects. System monitoring compounds, which are structurally similar to the targeted analytes, are used to evaluate the recovery of the target compounds. These are used as indicators for all of the analytes. The accuracy of the LCS spike recoveries are used in conjunction with MS/MSD when evaluating organic analyses.

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

The following sections summarize the results of this program.

B.1.1 Field Sampling Program Quality Control

A field duplicate sample was collected for each matrix (i.e., ground water) and analyzed for the same parameters as the original environmental samples to determine field sampling precision.

The potential for cross-contamination of volatile organics during sample storage and shipment was monitored by the trip blank which was shipped with the sample cooler containing aqueous samples. The trip blank was analyzed for volatile organic compounds (VOC) by U.S. Environmental Protection Agency (EPA) SW 846 Method 8260. An equipment rinsate blank was not required due to the use of dedicated pumping systems.

B.1.2 Laboratory Analytical Quality Control Program

Aqueous samples collected from the monitoring wells were analyzed for Target Compound List (TCL) VOC by EPA SW846 Method 8260; TCL semivolatile organic compounds (SVOC) by EPA SW846 Method 8270; TCL pesticides by EPA SW846 Method 8080; Target Analyte List (TAL) metals, cyanide, and mercury by EPA SW846 Methods 6010, 9010, and 7470, respectively; and pyrethrins and rotenone were analyzed by EPA SW846 Method 8310. The quality control measures specified in the EPA SW846 methodology (MS/MSD, SMC, LCS, and laboratory duplicates), as well as those in the QAPP, were performed at the proper frequency 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 subsections below.

B.2 SAMPLE HOLDING TIMES

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

B.3 PRECISION

B.3.1 Volatile Organic Compounds

Five VOC were used to quantify the MS/MSD RPD. The control limits identified in the QAPP were the same as those reported by the laboratory. The monitoring well samples MS/MSD RPD for VOC were within the established control limits, therefore, analytical precision was determined to be acceptable and the usability of the data unaffected.

B.3.2 Semivolatile Organic Compounds

Eleven SVOC were used to quantify the MS/MSD RPD. The control limits identified in the QAPP were the same as those reported by the laboratory. The monitoring well samples MS/MSD RPD for SVOC were within the established control limits, therefore, analytical precision was determined to be acceptable and the usability of the data unaffected.

B.3.3 Metals Target Analyte List (Including Cyanide)

All 24 analytes were used to quantify the laboratory duplicate RPD. There were no control limits identified in the QAPP for duplicate RPD for TAL metals, therefore, the laboratory control limits were used. The monitoring well samples duplicate RPD for TAL metals were within the laboratory control limits, therefore, the analytical precision was determined to be acceptable and the usability of the data unaffected.

B.3.4 Pesticide Compounds

Six compounds were used to quantify the MS/MSD RPD. The control limits identified in the QAPP for aqueous samples were the same as those reported by the laboratory. The monitoring well MS/MSD RPD for pesticide compounds was within the established control limits, therefore, the analytical precision was determined to be acceptable and the usability of the data unaffected.

B.3.5 Total Pyrethrins and Rotenone

Two compounds were used to quantify the MS/MSD RPD. The control limits identified in the QAPP for aqueous samples were the same as those reported by the laboratory. The monitoring well MS/MSD RPD for total pyrethrins and rotenone was within the established control limits, therefore, the analytical precision was determined to be acceptable and the usability of the data unaffected.

B.4 ACCURACY

B.4.1 Volatile Organic Compounds

Three SMC were used to measure the ability of the laboratory to extract the target analytes from the environmental samples. The control limits for aqueous samples identified in the QAPP and reported by the laboratory were the same for all three system monitoring compounds. The monitoring well aqueous sample SMC recoveries were within the established control limits and, therefore, the results are usable as reported.

Five VOC were used to quantify MS/MSD recoveries against laboratory established control limits. The recovery limits identified by the laboratory were the same as those listed in the QAPP. An MS/MSD was analyzed at the correct frequency and the MS/MSD recoveries were within the established control limits, indicating that little or no bias was introduced by the sample matrix.

Five VOC were used to quantify LCS recoveries against laboratory established control limits. No LCS recovery limits are stated in the QAPP. The LCS recoveries were within laboratory established control limits, confirming the laboratory's ability to perform analyte extraction.

B.4.2 Semivolatile Organic Compounds

Six SMC were used to measure the ability of the laboratory to extract the target analytes from the environmental samples. The monitoring well sample SMC recoveries were within the established control limits and, therefore, the results are usable as reported.

Eleven compounds are used to quantify the MS/MSD recoveries. The control limits established in the QAPP were the same as those reported by the laboratory. The aqueous sample MS/MSD were analyzed at the correct frequency and MS/MSD recoveries were within the established control limits, indicating that little or no bias was introduced by the sample matrix..

Eleven SVOC were used to quantify the LCS recoveries against laboratory established control limits for each spiking analyte. No LCS recovery limits are stated in the QAPP. The aqueous sample LCS recoveries were within laboratory established control limits, indicating the laboratory's ability to perform sample extraction.

B.4.3 Metals Target Analyte List (Including Cyanide)

All 24 analytes were used to quantify MS recoveries for aqueous samples. All of the MS recoveries were analyzed at the correct frequency and MS recoveries were within the established control limits, indicating little or no bias was introduced by the sample matrix.

All 24 TAL metals were used to quantify LCS recoveries against laboratory established control limits. The LCS recoveries were within laboratory established control limits, indicating the laboratory's ability to perform sample digestion/distillation.

B.4.4 Pesticide Compounds

Two compounds were used as SMC on Columns 1 and 2, in order to measure the ability of the laboratory to extract the target analytes from the environmental samples.

The SMC recoveries were within the established control limits, with the following exceptions: tetrachloro-m-xylene was reported below the lower control limit of 60 percent in samples 95MW002 (MW-NASB-066) (51 percent), 95MW003 (MW-NASB-067) (58 percent), and 95MWXD1 (MW-NASB-068 Dup) (54 percent). Decachlorobiphenyl was reported below the lower control limit of 60 percent in Samples 95MW002 (51 percent), 95MW003 (57 percent), 95MW004 (54 percent), and 95MWXD1 (55 percent). Although the usability of the data is unaffected for these samples, the SMC recoveries for all four samples and the field duplicate were low, indicating a loss of analyte from the sample matrix. The data user should consider all positive results associated with these samples as biased low.

Six compounds are used to quantify the MS/MSD recoveries. The MS/MSD recovery limits established by the QAPP were the same as those reported by the laboratory. The MS/MSD were analyzed at the correct frequency and MS/MSD recoveries were within the established control limits, indicating little or no bias was introduced by the sample matrix.

Six pesticide compounds are used to quantify LCS recoveries against laboratory established control limits. There were no LCS recovery limits identified in the QAPP. The monitoring well aqueous LCS recoveries were within laboratory established control limits, confirming the laboratory's ability to perform sample extraction.

B.4.5 Total Pyrethrins and Rotenone

Two SMC were used to measure the ability of the laboratory to extract the target analytes from the environmental samples. The surrogate recoveries established by the QAPP were the same as those reported by the laboratory. The SMC recoveries were within the established control limits.

The monitoring well sample MS/MSD recoveries were within the established control limits, indicating little or no bias was introduced by the sample matrix.

Two compounds were used to quantify LCS recoveries against laboratory established control limits. There were no LCS recoveries identified by the QAPP. The LCS recoveries were within laboratory established control limits, confirming the laboratory's ability to perform sample extraction.

B.5 COMPLETENESS

All of the planned field samples and the corresponding quality control samples (duplicate and trip blank) were collected, and all results were determined to be usable, resulting in a completeness level of 100 percent.

B.6 FIELD QUALITY CONTROL BLANKS

Field quality control blanks (rinsate blanks) are evaluated for contamination that may have been introduced during the field sampling activities. Trip blanks are indicators for cross-contamination of VOC during sample shipment. In both cases where contamination exists, environmental samples should be reviewed for possible false-positives. Equipment rinsate blanks were not required due to dedicated pumping systems.

The field quality control blanks collected for this site included 1 trip blank which was analyzed as part of this SDG (95MW001). The trip blank (QT-006) was free of contamination with the exception of acetone (12 μg/L) and 1,2-dichloroethane (1 μg/L). These contaminants did not appear in any of the environmental samples and, therefore, the usability of the data was not affected.

B.7 DUPLICATE FIELD SAMPLES

Field duplicated samples are used to evaluate the overall precision of both the field and laboratory. Typically, these results have more variability than laboratory precision measurements (MS/MSD) 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 duplicate taken during the sampling event. The overall precision of organic compounds (non-detects were defined as one-half the Contract Required Quantitation Limit) were considered acceptable at an RPD of less than 35 percent. Inorganic overall precision was measured by the difference of the field duplicate for analytes with concentrations less than 5 times the Contract Required Detection Limit, and by the RPD for the analytes greater than 5 times the Contract Required Detection Limit. Non-detects were defined as one-half the Contract Required Detection Limit for difference measurements.

Field duplicate samples were not identified to the laboratory. There was a set of duplicate field samples collected during monitoring well sampling. Sample duplication was evaluated as defined above. The precision measurement results from the duplicate monitoring well samples (SDG-95MW001) are shown below:

Analyte	Units	MW-NASB-068	MW-NASB-068-Dup	RPD %	Difference
Total Pyrethrins	µg/L	(<1U)	1.5	200	NA
Aluminum	µg/L	166B*	157B*	NA	9
Barium	µg/L	25.6B*	23.6B*	NA	2
Calcium	µg/L	13,800	12,800	NA	1,000
Chromium	µg/L	0.82B*	0.90B*	NA	0.08
Cobalt	µg/L	2.3B*	2.0B*	NA	0.3
Copper	µg/L	2.1B*	2.1B*	NA	0
Iron	µg/L	282	271	NA	11
Lead	µg/L	2.1B*	1.2B*	NA	0.9
Magnesium	µg/L	2,210B*	2,080B*	NA	130
Manganese	µg/L	647	604	6.9	NA
Mercury	µg/L	0.15B*	(<0.10U)	NA	0.05
Nickel	µg/L	1.9B*	2.0B*	NA	0.1
Potassium	µg/L	2,710B*	2,210B*	NA	500
Sodium	µg/L	20,400	19,100	NA	1,300
Vanadium	µg/L	3.9B*	3.1B*	NA	0.8
Zinc	µg/L	8.0B*	(6.8U)	NA	1.2
Cyanide	µg/L	2.5B*	(<1.3U)	NA	1.2

NOTE:
- B = Compound detected in associated method blank.
- B* = Analyte concentration is between the instrument detection limit and Contract Required Detection Limit.
- J = Estimated concentration below detection limit.
- JB = Not detected. Sample quantitation limit shown as (<__U).
- NA = Not applicable.
- RPD = Relative Percent Difference.

All precision requirements were met for the duplicate analysis, therefore, the results are usable as reported.

Appendix C

Summary Tables for Analyses of Tentatively Identified Compounds

TABLE C-1 SUMMARY OF TENTATIVELY IDENTIFIED COMPOUNDS REPORTED IN GROUND-WATER SAMPLES COLLECTED ON 22 FEBRUARY 1996 AT BUILDING 95 NAVAL AIR STATION, BRUNSWICK, MAINE

Analyte	Run Time (min)	MW-NASB-065	MW-NASB-066	MW-NASB-067	MW-NASB-068	MW-NASB-068 DUP	QT-006
VOLATILE ORGANIC COMPOUNDS BY EPA METHOD 8260 (μg/L)							
Cyclotetrasiloxane, octamethyl-	21.54		47JN				
Cyclotetrasiloxane, octamethyl-	21.58						8J
C10H14 Isomer	26.23	6J					
C10H14 Isomer	26.45	8J					
C10H14 Isomer	27.24	12J					
C10H14 Isomer	28.47	8J					
C10H14 Isomer	28.68	9J					
SEMIVOLATILE ORGANIC COMPOUNDS BY EPA METHOD 8270 (μg/L)							
C10H14 Isomer	8.65	5J					
C10H14 Isomer	8.70	5J					
C10H14 Isomer	9.31	6J					
C10H14 Isomer	9.37	7J					
C10H14 Isomer	9.82	6J					

NOTE: J = Estimated concentration below detection limit.
JN = Presumptive identification, estimated value.
Only those analytes detected in at least one of the samples are shown on this table.

Appendix D

Analytical Report Data Tables

APPENDIX D

SAMPLE KEY - BUILDING 95
NAVAL AIR STATION, BRUNSWICK, MAINE

Sample Designation	Sample Station
Monitoring Wells	
95-MW001	MW-NASB-065
95-MW004	MW-NASB-066
95-MW003	MW-NASB-067
95-MW002	MW-NASB-068
95-MWXD1	MW-NASB-068 DUP
Trip Blank	
QT-006	---

Katahdin ANALYTICAL SERVICES

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P.O. Box 720
Westbrook, ME 04098
Tel: (207) 874-2400

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Page 1 of 1

Client: EA Engineering | Contact: Mike Battle | Phone #: 914 565-8100 | Fax #: 914 565-8203

Address: 3 Washington Center | City: Newburgh | State: NY | Zip Code: 12550

P.O. #: 29600.47/17200 | Proj. Name/No.: NAS Brunswick LTMP

Bill (if different than above) | Address

Sample (Print/Sign): Karen A. Rilszyk / Karen A Rilszyk | Copies To:

LAB USE ONLY WORK ORDER #: WM0237

KATAHDIN PROJECT MANAGER

REMARKS:

SHIPPING INFO: ☐ FED EX ☐ UPS ☐ CLIENT

AIRBILL NO:

TEMP°C 333, 4.4, 2.2 ☐ TEMP BLANK ☐ INTACT ☐ NOT INTACT

ANALYSIS AND CONTAINER TYPE PRESERVATIVES

*	Sample Description	Date/Time coll'd	Matrix	Filt. Y/N	No. of Cntrs.	VOAs/VOCs HCl	TCL SVOC - 1L	Tal Elements - 1L HNO_3	Cyanide - 1L NaOH	TCL Pesticides 1L	Rotenone/Pyrethrins 1L				
1	BN-05-95-MW001 MS/MSD	2/22/96/ 0907	H_2O	N	24	X	X	X	X	X	X				
1	BN-05-95-MW001/MS	2/22/96/0907	H_2O	N	4			X	X						
2	BN-05-95-MW002	2/22/96/0910	H_2O	N	10	X	X	X	X	X	X				
3	BN-05-95-MW003	2/22/96/1037	H_2O	N	10	X	X	X	X	X	X				
4	BN-05-95-MW004	2/22/96/1030	H_2O	N	10	X	X	X	X	X	X				
5	BN-05-95-MWXD	2/22/96/ —	H_2O	N	10	X	X	X	X	X	X				
6	BN-05-95-QT006	2/22/96/0907	H_2O	N	2	X									
		/													
		/													
		/													
		/													
		/													
		/													
		/													
		/													
		/													

COMMENTS: VOAs by 8260, plus library search. Tal Elements and Cyanide refer to Table 7-1 in QAPP. BN-05-95-MW001 MS/MSD begins SDG# BN-0595 MW001 and ends with BN-05-95-MW004.

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
Brian Anderson	2/23/96 0800	Jerry Fine		02/23/96 0930	[illegible]
Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
					000008

CORELAB

CORE LABORATORIES

MODIFIED METHOD 8310 ROTENONE and TOTAL PYRETHRINS
By HPLC with UV Detection

Case No: 960337 Client: Katahdin Analytical Analyst: DLB

Seq File: Mar10 Matrix: Aqueous Units: ug/L

Detection Limits ug/L	Core Sample I.D.	W-Blank	0337-01	0337-02S	0337-03SD	0337-04	0337-05	0337-06
	Client Sample I.D.	Water Blk	WM0337-1	WM0337-1 MS	WM0337-1 MS	WM0337-2	WM0337-3	WM0337-4
	Date Sampled	N.A.	02/22/96	02/22/96	02/22/96	02/22/96	02/22/96	02/22/96
	Date Analyzed	03/11/96	03/11/96	03/11/96	03/11/96	03/11/96	03/11/96	03/11/96
0.5	Rotenone	< 0.5	3.3	4.7	2.7	< 0.5	< 0.5	< 0.5
1.0	Total Pyrethrins	< 1.0	9.3	5.9	5.1	< 1.0	< 1.0	< 1.0

Internal And Surrogate Standard Recovery Data D - Surrogate Diluted Out

Limits								
50 - 150	IS Naphthalene	108	1892 *	562 *	527 *	130	144	121
50 - 150	SS Pyrene	101	118	104	123	108	90	102
50 - 150	SS Benz(b)fluor-anthene	102	96	87	84	109	95	101

* Denotes Recovery Outside of Quality Control Limits

Detection Limits ug/L	Core Sample I.D.	0337-07	LCS	LCSD				
	Client Sample I.D.	WM0337-05	Spike	Spike Dup				
	Date Sampled	02/22/96	N.A.	N.A.				
	Date Analyzed	03/11/96	03/11/96	03/11/96				
0.5	Rotenone	< 0.5	1.1	1.1				
1.0	Total Pyrethrins	1.5	1.7	1.6				

Internal And Surrogate Standard Recovery Data D - Surrogate Diluted Out

Limits								
50 - 150	IS Naphthalene	117	77	106				
50 - 150	SS Pyrene	168 *	83	93				
50 - 150	SS Benz(b)fluor-anthene	103	84	94				

* Denotes Recovery Outside of Quality Control Limits

Date Received: 02/27/96 Date Extracted: 02/28/96 Date Reported: 03/14/96

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Katahdin
ANALYTICAL SERVICES

Lab Number : WM-0337-1
Report Date: 03/19/96
PO No. : 802LSOA

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

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
95MW001	Aqueous	K. RUSCZYK	02/22/96	02/23/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Volatile Organics by EPA 8260								
Chloromethane	<5.	µg/L	1.0	5.0	EPA 8260	02/26/96	TG	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	02/26/96	TG	
Vinyl chloride	<2.	µg/L	1.0	2.0	EPA 8260	02/26/96	TG	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	02/26/96	TG	
Methylene chloride	<3.	µg/L	1.0	3.0	EPA 8260	02/26/96	TG	
Acetone	<5.	µg/L	1.0	5.0	EPA 8260	02/26/96	TG	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	02/26/96	TG	
1,1-Dichloroethene	<1.	µg/L	1.0	1.0	EPA 8260	02/26/96	TG	
1,1-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	02/26/96	TG	
Total 1,2-Dichloroethene	<2.	µg/L	1.0	2.0	EPA 8260	02/26/96	TG	
Chloroform	<2.	µg/L	1.0	2.0	EPA 8260	02/26/96	TG	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	02/26/96	TG	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	02/26/96	TG	
1,1,1-Trichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	02/26/96	TG	
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	02/26/96	TG	
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	02/26/96	TG	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

03/19/96

LJO/jcbeaw/gbp(dw)/kwh
MB26VLW1

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Katahdin
ANALYTICAL SERVICES

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

Lab Number : WM-0337-1
Report Date: 03/19/96
PO No. : 802LSOA

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
95MW001	Aqueous	K. RUSCZYK	02/22/96	02/23/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	02/26/96	TG	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	02/26/96	TG	
Trichloroethene	<2.5	µg/L	1.0	2.5	EPA 8260	02/26/96	TG	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	02/26/96	TG	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	02/26/96	TG	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	02/26/96	TG	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	02/26/96	TG	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	02/26/96	TG	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	02/26/96	TG	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	02/26/96	TG	
Tetrachloroethene	<2.	µg/L	1.0	2.0	EPA 8260	02/26/96	TG	
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	02/26/96	TG	
Toluene	<2.	µg/L	1.0	2.0	EPA 8260	02/26/96	TG	
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	02/26/96	TG	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	02/26/96	TG	
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	02/26/96	TG	
Total Xylenes	<2.	µg/L	1.0	2.0	EPA 8260	02/26/96	TG	

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03/19/96

LJO/jcbeaw/gbp(dw)/kwh
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Katahdin
ANALYTICAL SERVICES

Lab Number : WM-0337-1
Report Date: 03/19/96
PO No. : 802LSQA

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

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
95MW001	Aqueous	K. RUSCZYK	02/22/96	02/23/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Dibromofluoromethane (Surr.)	103.	%	1.0		EPA 8260	02/26/96	TG	
Toluene-d8 (Surr.)	106.	%	1.0		EPA 8260	02/26/96	TG	
p-Bromofluorobenzene (Surr.)	105.	%	1.0		EPA 8260	02/26/96	TG	
1,2-Dichlorobenzene	<2.	µg/L	1.0	2.0	EPA 8260	02/26/96	TG	
1,3-Dichlorobenzene	<2.	µg/L	1.0	2.0	EPA 8260	02/26/96	TG	
1,4-Dichlorobenzene	<2.	µg/L	1.0	2.0	EPA 8260	02/26/96	TG	

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03/19/96

LJO/jcbeaw/gbp(dw)/kwh
MB26VLW1

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1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Sample Name: 95MW001

Lab Name: Katahdin ASI

SDG No.: 95MW001

Matrix (soil/water): Water

Lab Sample ID: WM0337-1

Sample wt/vol: 5 (g/ml) ml

Lab File ID: I0974.D

Level: (low/med) low

Date Received: 2/23/96

% Moisture: not dec. N/A

Date Analyzed: 2/26/96

GC Column: RTX-502.2 ID: 0.53

Dilution Factor: 1.0

Soil Extract Volume: 0 (ul)

Soil Aliquot Volume: 0 (ul)

Number of TIC's Found: 5

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	C10H14 Isomer	26.23	6	J
2.	C10H14 Isomer	26.45	8	J
3.	C10H14 Isomer	27.24	12	J
4.	C10H14 Isomer	28.47	8	J
5.	C10H14 Isomer	28.68	9	J
6.				
7.				
8.				
9.				
10.				
11.				
12.				
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24.				
25.				
26.				
27.				
28.				
29.				
30.				

Katahdin
ANALYTICAL SERVICES

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

Lab Number : WM-0337-1
Report Date: 03/19/96
PO No. : 802LSOA

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
95MW001	Aqueous	K. RUSCZYK	02/22/96	02/23/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
TCL Semivolatile Organics by USEPA 8270B								1
Phenol	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
bis(2-Chloroethyl)ether	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
2-Chlorophenol	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
1,3-Dichlorobenzene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
1,4-Dichlorobenzene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
1,2-Dichlorobenzene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
2-Methylphenol	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
bis(2-Chloroisopropyl) ether	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
4-Methylphenol	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
n-Nitroso-dipropylamine	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
Hexachloroethane	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
Nitrobenzene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
Isophorone	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
2-Nitrophenol	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	

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(1) Sample Preparation on 02/27/96 by BWG using EPA 3520

03/19/96

LJO/jcbgbp(dw)/kwh
MB27BNW1

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Katahdin
ANALYTICAL SERVICES

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EA Engineering
3 Washington Center
Newburgh, NY 12550

Lab Number : WM-0337-1
Report Date: 03/19/96
PO No. : 802LSOA

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
95MW001	Aqueous	K. RUSCZYK	02/22/96	02/23/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
2,4-Dimethylphenol	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
bis(2-Chloroethoxy)methane	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
2,4-Dichlorophenol	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
1,2,4-Trichlorobenzene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
Naphthalene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
4-Chloroaniline	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
Hexachlorobutadiene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
4-Chloro-3-methylphenol	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
2-Methylnaphthalene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
Hexachlorocyclopentadiene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
2,4,6-Trichlorophenol	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
2,4,5-Trichlorophenol	<25.	µg/L	1.0	25	EPA 8270B	03/04/96	LM	
2-Chloronaphthalene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
2-Nitroaniline	<25.	µg/L	1.0	25	EPA 8270B	03/04/96	LM	
Dimethylphthalate	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
Acenaphthylene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	

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03/19/96

LJO/jcbgbp(dw)/kwh
MB27BNW1

Katahdin
ANALYTICAL SERVICES

Lab Number : WM-0337-1
Report Date: 03/19/96
PO No. : 802LSOA

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

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
95MW001	Aqueous	K. RUSCZYK	02/22/96	02/23/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
2,6-Dinitrotoluene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
3-Nitroaniline	<25.	µg/L	1.0	25	EPA 8270B	03/04/96	LM	
Acenaphthene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
2,4-Dinitrophenol	<25.	µg/L	1.0	25	EPA 8270B	03/04/96	LM	
4-Nitrophenol	<25.	µg/L	1.0	25	EPA 8270B	03/04/96	LM	
Dibenzofuran	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
2,4-Dinitrotoluene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
Diethylphthalate	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
4-Chlorophenyl phenyl ether	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
Fluorene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
4-Nitroaniline	<25.	µg/L	1.0	25	EPA 8270B	03/04/96	LM	
4,6-Dinitro-2-methylphenol	<25.	µg/L	1.0	25	EPA 8270B	03/04/96	LM	
n-Nitrosodiphenylamine	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
4-Bromophenyl phenyl ether	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
Hexachlorobenzene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
Pentachlorophenol	<25.	µg/L	1.0	25	EPA 8270B	03/04/96	LM	

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03/19/96

LJO/jcbgbp (dw) /kwh
MB27BNW1

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Katahdin
ANALYTICAL SERVICES

Lab Number : WM-0337-1
Report Date: 03/19/96
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CLIENT: Data Management
EA Engineering
3 Washington Center
Newburgh, NY 12550

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
95MW001	Aqueous	K. RUSCZYK	02/22/96	02/23/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Phenanthrene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
Anthracene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
Carbazole	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
Di-n-butylphthalate	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
Fluoranthene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
Pyrene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
Butyl benzylphthalate	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
3,3'-Dichlorobenzidine	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
Benzo(a)anthracene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
Chrysene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
bis(2-Ethylhexyl)phthalate	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
Di-n-octylphthalate	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
Benzo(b)fluoranthene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
Benzo(k)fluoranthene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
Benzo(a)pyrene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
Indeno(1,2,3-cd)pyrene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	

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03/19/96

LJO/jcbgbp(dw)/kwh
MB27BNW1

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Katahdin
ANALYTICAL SERVICES

CLIENT: Data Management
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Lab Number : WM-0337-1
Report Date: 03/19/96
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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
95MW001	Aqueous	K. RUSCZYK	02/22/96	02/23/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Dibenzo(a,h)anthracene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
Benzo(g,h,i)perylene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
2-Fluorophenol (% Recovery)	77.	%	1.0		EPA 8270B	03/04/96	LM	
Phenol-d5 (% Recovery)	78.	%	1.0		EPA 8270B	03/04/96	LM	
Nitrobenzene-d5 (% Recovery)	72.	%	1.0		EPA 8270B	03/04/96	LM	
2-Fluorobiphenyl (% Recovery)	71.	%	1.0		EPA 8270B	03/04/96	LM	
2,4,6-Tribromophenol (% Recovery)	114.	%	1.0		EPA 8270B	03/04/96	LM	
Terphenyl-d14 (% Recovery)	81.	%	1.0		EPA 8270B	03/04/96	LM	

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03/19/96

LJO/jcbgbp(dw)/kwh
MB27BNW1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Sample Name: 95MW001

Lab Name: Katahdin ASI

SDG No.: 95MW001

Matrix (soil/water): Water

Lab Sample ID: WM0337-1

Sample wt/vol: 1000 (g/ml) ml

Lab File ID: K0475.D

Level: (low/med) low

Date Received: 2/23/96

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

Date Extracted: 2/27/96

Concentrated Extract Volume 1000 (ul)

Date Analyzed: 3/4/96

Injection Volume 1.0 (ul)

Dilution Factor: 1.0

GPC Cleanup: N (Y/N)

Soil Aliquot Volume: 0 (ul)

pH: N/A

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

Number of TIC's: 5

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	C10H14 Isomer	8.65	5	J
2.	C10H14 Isomer	8.70	5	J
3.	C10H14 Isomer	9.31	6	J
4.	C10H14 Isomer	9.37	7	J
5.	C10H14 Isomer	9.82	6	J
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
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Katahdin
ANALYTICAL SERVICES

Lab Number : WM-0337-1
Report Date: 03/19/96
PO No. : 802LSQA

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

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
95MW001	Aqueous	K. RUSCZYK	02/22/96	02/23/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
TCL Pesticides by USEPA 8080								1
alpha-BHC	<0.05	µg/L	1.0	0.05	EPA 8080	03/04/96	SW	
gamma-BHC (Lindane)	<0.05	µg/L	1.0	0.05	EPA 8080	03/04/96	SW	
Heptachlor	<0.05	µg/L	1.0	0.05	EPA 8080	03/04/96	SW	
Aldrin	<0.05	µg/L	1.0	0.05	EPA 8080	03/04/96	SW	
beta-BHC	<0.05	µg/L	1.0	0.05	EPA 8080	03/04/96	SW	
delta-BHC	<0.05	µg/L	1.0	0.05	EPA 8080	03/04/96	SW	
Heptachlor epoxide	<0.05	µg/L	1.0	0.05	EPA 8080	03/04/96	SW	
Endosulfan I	<0.05	µg/L	1.0	0.05	EPA 8080	03/04/96	SW	
gamma-Chlordane	<0.05	µg/L	1.0	0.05	EPA 8080	03/04/96	SW	
alpha-Chlordane	<0.05	µg/L	1.0	0.05	EPA 8080	03/04/96	SW	
4,4'-DDE	<0.1	µg/L	1.0	0.1	EPA 8080	03/04/96	SW	
Dieldrin	<0.1	µg/L	1.0	0.1	EPA 8080	03/04/96	SW	
Endrin	<0.1	µg/L	1.0	0.1	EPA 8080	03/04/96	SW	
4,4'-DDD	<0.1	µg/L	1.0	0.1	EPA 8080	03/04/96	SW	
Endosulfan II	<0.1	µg/L	1.0	0.1	EPA 8080	03/04/96	SW	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 02/26/96 by BWG using EPA 3510

03/19/96

LJO/jcbgbp(dw)/kwh/sw

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Katahdin
ANALYTICAL SERVICES

Lab Number : WM-0337-1
Report Date: 03/19/96
PO No. : 802LSOA

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

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
95MW001	Aqueous	K. RUSCZYK	02/22/96	02/23/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
4,4'-DDT	<0.1	µg/L	1.0	0.1	EPA 8080	03/04/96	SW	
Endrin aldehyde	<0.1	µg/L	1.0	0.1	EPA 8080	03/04/96	SW	
Endosulfan sulfate	<0.1	µg/L	1.0	0.1	EPA 8080	03/04/96	SW	
Methoxychlor	<0.5	µg/L	1.0	0.5	EPA 8080	03/04/96	SW	
Endrin ketone	<0.1	µg/L	1.0	0.1	EPA 8080	03/04/96	SW	
Toxaphene	<1.	µg/L	1.0	1	EPA 8080	03/04/96	SW	
2,4,5,6-Tetrachloro-meta-xylene (%	71.	%	1.0		EPA 8080	03/04/96	SW	
Decachlorobiphenyl (% Recovery)	73.	%	1.0		EPA 8080	03/04/96	SW	

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03/19/96

LJO/jcbgbp(dw)/kwh/sw

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U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

95MW001

Lab Name: KATAHDIN_ANALYTICAL_____ Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 95MW00

Matrix (soil/water): WATER Lab Sample ID: WM0337-1

Level (low/med): LOW__ Date Received: 02/23/96

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	410			P
7440-36-0	Antimony_	4.1	U		P
7440-38-2	Arsenic__	3.4	U		P
7440-39-3	Barium___	18.7	B	E	P
7440-41-7	Beryllium	0.09	U		P
7440-43-9	Cadmium__	0.21	U		P
7440-70-2	Calcium__	18000		E	P
7440-47-3	Chromium_	1.8	B		P
7440-48-4	Cobalt___	1.5	B		P
7440-50-8	Copper___	2.3	B		P
7439-89-6	Iron____	837			P
7439-92-1	Lead____	2.1	B		P
7439-95-4	Magnesium	1780	B	E	P
7439-96-5	Manganese	126		E	P
7439-97-6	Mercury__	0.14	B		CV
7440-02-0	Nickel___	1.8	B		P
7440-09-7	Potassium	1040	B		P
7782-49-2	Selenium_	5.3	U		P
7440-22-4	Silver___	5.2	U		P
7440-23-5	Sodium___	16000			P
7440-28-0	Thallium_	5.8	U		P
7440-62-2	Vanadium_	3.9	B		P
7440-66-6	Zinc____	10.4	B		P
	Cyanide__	1.3	U		AS

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

FORM I - IN ILM03.0

Katahdin
ANALYTICAL SERVICES

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

Lab Number : WM-0337-4
Report Date: 03/19/96
PO No. : 802LSOA

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
95MW004	Aqueous	K. RUSCZYK	02/22/96	02/23/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Volatile Organics by EPA 8260								
Chloromethane	<5.	µg/L	1.0	5.0	EPA 8260	02/26/96	TG	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	02/26/96	TG	
Vinyl chloride	<2.	µg/L	1.0	2.0	EPA 8260	02/26/96	TG	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	02/26/96	TG	
Methylene chloride	<3.	µg/L	1.0	3.0	EPA 8260	02/26/96	TG	
Acetone	<5.	µg/L	1.0	5.0	EPA 8260	02/26/96	TG	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	02/26/96	TG	
1,1-Dichloroethene	<1.	µg/L	1.0	1.0	EPA 8260	02/26/96	TG	
1,1-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	02/26/96	TG	
Total 1,2-Dichloroethene	<2.	µg/L	1.0	2.0	EPA 8260	02/26/96	TG	
Chloroform	<2.	µg/L	1.0	2.0	EPA 8260	02/26/96	TG	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	02/26/96	TG	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	02/26/96	TG	
1,1,1-Trichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	02/26/96	TG	
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	02/26/96	TG	
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	02/26/96	TG	

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03/19/96

LJO/jcbeaw/gbp (dw) /kwh
MB26VLW1

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Katahdin
ANALYTICAL SERVICES

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

Lab Number : WM-0337-4
Report Date: 03/19/96
PO No. : 802LSOA

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
95MW004	Aqueous	K. RUSCZYK	02/22/96	02/23/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	02/26/96	TG	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	02/26/96	TG	
Trichloroethene	<2.5	µg/L	1.0	2.5	EPA 8260	02/26/96	TG	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	02/26/96	TG	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	02/26/96	TG	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	02/26/96	TG	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	02/26/96	TG	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	02/26/96	TG	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	02/26/96	TG	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	02/26/96	TG	
Tetrachloroethene	<2.	µg/L	1.0	2.0	EPA 8260	02/26/96	TG	
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	02/26/96	TG	
Toluene	<2.	µg/L	1.0	2.0	EPA 8260	02/26/96	TG	
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	02/26/96	TG	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	02/26/96	TG	
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	02/26/96	TG	
Total Xylenes	<2.	µg/L	1.0	2.0	EPA 8260	02/26/96	TG	

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03/19/96

LJO/jcbeaw/gbp(dw)/kwh
MB26VLW1

Katahdin
ANALYTICAL SERVICES

Lab Number : WM-0337-4
Report Date: 03/19/96
PO No. : 802LSOA

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

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
95MW004	Aqueous	K. RUSCZYK	02/22/96	02/23/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Dibromofluoromethane (Surr.)	103.	%	1.0		EPA 8260	02/26/96	TG	
Toluene-d8 (Surr.)	105.	%	1.0		EPA 8260	02/26/96	TG	
p-Bromofluorobenzene (Surr.)	100.	%	1.0		EPA 8260	02/26/96	TG	
1,2-Dichlorobenzene	<2.	µg/L	1.0	2.0	EPA 8260	02/26/96	TG	
1,3-Dichlorobenzene	<2.	µg/L	1.0	2.0	EPA 8260	02/26/96	TG	
1,4-Dichlorobenzene	<2.	µg/L	1.0	2.0	EPA 8260	02/26/96	TG	

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03/19/96

LJO/jcbeaw/gbp(dw)/kwh
MB26VLW1

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210 West Road No. 5, Portsmouth, NH 03801
Tel: (603) 431-5777 Fax: (603) 436-3356

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Sample Name: 95MW004

Lab Name	Katahdin ASI	SDG No.:	95MW001
Matrix (soil/water)	Water	Lab Sample ID:	WM0337-4
Sample wt/vol:	5 (g/ml) ml	Lab File ID:	I0980.D
Level: (low/med)	low	Date Received:	2/23/96
% Moisture: not dec.	N/A	Date Analyzed:	2/26/96
GC Column:	RTX-502.2 ID: 0.53	Dilution Factor:	1.0
Soil Extract Volume:	0 (ul)	Soil Aliquot Volume:	0 (ul)

Number of TIC's Found: 1

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	000556-67-2	Cyclotetrasiloxane, octamethyl-	21.54	47	JN
2.					
3.					
4.					
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Katahdin
ANALYTICAL SERVICES

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

Lab Number : WM-0337-4
Report Date: 03/19/96
PO No. : 802LSOA

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
95MW004	Aqueous	K. RUSCZYK	02/22/96	02/23/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
TCL Semivolatile Organics by USEPA 8270B								1
Phenol	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
bis(2-Chloroethyl)ether	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
2-Chlorophenol	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
1,3-Dichlorobenzene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
1,4-Dichlorobenzene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
1,2-Dichlorobenzene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
2-Methylphenol	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
bis(2-Chloroisopropyl) ether	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
4-Methylphenol	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
n-Nitroso-dipropylamine	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
Hexachloroethane	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
Nitrobenzene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
Isophorone	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
2-Nitrophenol	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	

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(1) Sample Preparation on 02/27/96 by BWG using EPA 3520

03/19/96

LJO/jcbgbp(dw)/kwh
MB27BNW1

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Katahdin
ANALYTICAL SERVICES

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EA Engineering
3 Washington Center
Newburgh, NY 12550

Lab Number : WM-0337-4
Report Date: 03/19/96
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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
95MW004	Aqueous	K. RUSCZYK	02/22/96	02/23/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
2,4-Dimethylphenol	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
bis(2-Chloroethoxy)methane	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
2,4-Dichlorophenol	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
1,2,4-Trichlorobenzene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
Naphthalene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
4-Chloroaniline	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
Hexachlorobutadiene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
4-Chloro-3-methylphenol	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
2-Methylnaphthalene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
Hexachlorocyclopentadiene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
2,4,6-Trichlorophenol	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
2,4,5-Trichlorophenol	<25.	µg/L	1.0	25	EPA 8270B	03/04/96	LM	
2-Chloronaphthalene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
2-Nitroaniline	<25.	µg/L	1.0	25	EPA 8270B	03/04/96	LM	
Dimethylphthalate	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
Acenaphthylene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

03/19/96

LJO/jcbgbp(dw)/kwh
MB27BNW1

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Katahdin
ANALYTICAL SERVICES

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

Lab Number : WM-0337-4
Report Date: 03/19/96
PO No. : 802LSOA

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
95MW004	Aqueous	K. RUSCZYK	02/22/96	02/23/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
2,6-Dinitrotoluene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
3-Nitroaniline	<25.	µg/L	1.0	25	EPA 8270B	03/04/96	LM	
Acenaphthene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
2,4-Dinitrophenol	<25.	µg/L	1.0	25	EPA 8270B	03/04/96	LM	
4-Nitrophenol	<25.	µg/L	1.0	25	EPA 8270B	03/04/96	LM	
Dibenzofuran	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
2,4-Dinitrotoluene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
Diethylphthalate	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
4-Chlorophenyl phenyl ether	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
Fluorene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
4-Nitroaniline	<25.	µg/L	1.0	25	EPA 8270B	03/04/96	LM	
4,6-Dinitro-2-methylphenol	<25.	µg/L	1.0	25	EPA 8270B	03/04/96	LM	
n-Nitrosodiphenylamine	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
4-Bromophenyl phenyl ether	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
Hexachlorobenzene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
Pentachlorophenol	<25.	µg/L	1.0	25	EPA 8270B	03/04/96	LM	

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03/19/96

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Katahdin
ANALYTICAL SERVICES

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3 Washington Center
Newburgh, NY 12550

Lab Number : WM-0337-4
Report Date: 03/19/96
PO No. : 802LSOA

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
95MW004	Aqueous	K. RUSCZYK	02/22/96	02/23/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Phenanthrene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
Anthracene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
Carbazole	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
Di-n-butylphthalate	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
Fluoranthene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
Pyrene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
Butyl benzylphthalate	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
3,3'-Dichlorobenzidine	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
Benzo(a)anthracene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
Chrysene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
bis(2-Ethylhexyl)phthalate	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
Di-n-octylphthalate	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
Benzo(b)fluoranthene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
Benzo(k)fluoranthene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
Benzo(a)pyrene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
Indeno(1,2,3-cd)pyrene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

03/19/96

LJO/jcbgbp(dw)/kwh
MB27BNW1

340 County Road No. 5
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210 West Road No. 5, Portsmouth, NH 03801
Tel: (603) 431-5777 Fax: (603) 436-3356

Katahdin
ANALYTICAL SERVICES

Lab Number : WM-0337-4
Report Date: 03/19/96
PO No. : 802LSQA

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

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
95MW004	Aqueous	K. RUSCZYK	02/22/96	02/23/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Dibenzo(a,h)anthracene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
Benzo(g,h,i)perylene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
2-Fluorophenol (% Recovery)	72.	%	1.0		EPA 8270B	03/04/96	LM	
Phenol-d5 (% Recovery)	72.	%	1.0		EPA 8270B	03/04/96	LM	
Nitrobenzene-d5 (% Recovery)	66.	%	1.0		EPA 8270B	03/04/96	LM	
2-Fluorobiphenyl (% Recovery)	70.	%	1.0		EPA 8270B	03/04/96	LM	
2,4,6-Tribromophenol (% Recovery)	107.	%	1.0		EPA 8270B	03/04/96	LM	
Terphenyl-d14 (% Recovery)	79.	%	1.0		EPA 8270B	03/04/96	LM	

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03/19/96

LJO/jcbgbp(dw)/kwh
MB27BNW1

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Sample Name: 95MW004

Lab Name: Katahdin ASI

SDG No.: 95MW001

Matrix (soil/water): Water

Lab Sample ID: WM0337-4

Sample wt/vol: 1000 (g/ml) ml

Lab File ID: K0478.D

Level: (low/med) low

Date Received: 2/23/96

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

Date Extracted: 2/27/96

Concentrated Extract Volume 1000 (ul)

Date Analyzed: 3/4/96

Injection Volume 1.0 (ul)

Dilution Factor: 1.0

GPC Cleanup: N (Y/N)

Soil Aliquot Volume: 0 (ul)

pH: N/A

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

Number of TIC's: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
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22.				

Katahdin
ANALYTICAL SERVICES

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

Lab Number : WM-0337-4
Report Date: 03/19/96
PO No. : 802LSOA

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
95MW004	Aqueous	K. RUSCZYK	02/22/96	02/23/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
TCL Pesticides by USEPA 8080								1
alpha-BHC	<0.05	µg/L	1.0	0.05	EPA 8080	03/04/96	SW	
gamma-BHC (Lindane)	<0.05	µg/L	1.0	0.05	EPA 8080	03/04/96	SW	
Heptachlor	<0.05	µg/L	1.0	0.05	EPA 8080	03/04/96	SW	
Aldrin	<0.05	µg/L	1.0	0.05	EPA 8080	03/04/96	SW	
beta-BHC	<0.05	µg/L	1.0	0.05	EPA 8080	03/04/96	SW	
delta-BHC	<0.05	µg/L	1.0	0.05	EPA 8080	03/04/96	SW	
Heptachlor epoxide	<0.05	µg/L	1.0	0.05	EPA 8080	03/04/96	SW	
Endosulfan I	<0.05	µg/L	1.0	0.05	EPA 8080	03/04/96	SW	
gamma-Chlordane	<0.05	µg/L	1.0	0.05	EPA 8080	03/04/96	SW	
alpha-Chlordane	<0.05	µg/L	1.0	0.05	EPA 8080	03/04/96	SW	
4,4'-DDE	<0.1	µg/L	1.0	0.1	EPA 8080	03/04/96	SW	
Dieldrin	<0.1	µg/L	1.0	0.1	EPA 8080	03/04/96	SW	
Endrin	<0.1	µg/L	1.0	0.1	EPA 8080	03/04/96	SW	
4,4'-DDD	<0.1	µg/L	1.0	0.1	EPA 8080	03/04/96	SW	
Endosulfan II	<0.1	µg/L	1.0	0.1	EPA 8080	03/04/96	SW	

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(1) Sample Preparation on 02/26/96 by BWG using EPA 3510

03/19/96

LJO/jcbgbp(dw)/kwh/sw

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Katahdin
ANALYTICAL SERVICES

Lab Number : WM-0337-4
Report Date: 03/19/96
PO No. : 802LSOA

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

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
95MW004	Aqueous	K. RUSCZYK	02/22/96	02/23/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
4,4'-DDT	<0.1	µg/L	1.0	0.1	EPA 8080	03/04/96	SW	
Endrin aldehyde	<0.1	µg/L	1.0	0.1	EPA 8080	03/04/96	SW	
Endosulfan sulfate	<0.1	µg/L	1.0	0.1	EPA 8080	03/04/96	SW	
Methoxychlor	<0.5	µg/L	1.0	0.5	EPA 8080	03/04/96	SW	
Endrin ketone	<0.1	µg/L	1.0	0.1	EPA 8080	03/04/96	SW	
Toxaphene	<1.	µg/L	1.0	1	EPA 8080	03/04/96	SW	
2,4,5,6-Tetrachloro-meta-xylene (%	66.	%	1.0		EPA 8080	03/04/96	SW	
Decachlorobiphenyl (% Recovery)	66.	%	1.0		EPA 8080	03/04/96	SW	

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03/19/96

LJO/jcbgbp(dw)/kwh/sw

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U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

95MW004

Lab Name: KATAHDIN_ANALYTICAL_____ Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 95MW00

Matrix (soil/water): WATER Lab Sample ID: WM0337-4

Level (low/med): LOW__ Date Received: 02/23/96

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	676			P
7440-36-0	Antimony_	4.1	U		P
7440-38-2	Arsenic__	3.4	U		P
7440-39-3	Barium___	39.9	B	E	P
7440-41-7	Beryllium	0.09	U		P
7440-43-9	Cadmium__	0.21	U		P
7440-70-2	Calcium__	5960		E	P
7440-47-3	Chromium_	24.3			P
7440-48-4	Cobalt___	2.2	B		P
7440-50-8	Copper___	5.0	B		P
7439-89-6	Iron____	2920			P
7439-92-1	Lead____	2.3	B		P
7439-95-4	Magnesium	1250	B	E	P
7439-96-5	Manganese	218		E	P
7439-97-6	Mercury__	0.10	U		CV
7440-02-0	Nickel___	18.2	B		P
7440-09-7	Potassium	1290	B		P
7782-49-2	Selenium_	5.3	U		P
7440-22-4	Silver___	5.2	U		P
7440-23-5	Sodium___	39700			P
7440-28-0	Thallium_	5.8	U		P
7440-62-2	Vanadium_	3.3	B		P
7440-66-6	Zinc____	90.6			P
	Cyanide__	1.3	U		AS

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

FORM I - IN ILM03.0

Katahdin
ANALYTICAL SERVICES

Lab Number : WM-0337-3
Report Date: 03/19/96
PO No. : 802LSQA

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

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
95MW003	Aqueous	K. RUSCZYK	02/22/96	02/23/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Volatile Organics by EPA 8260								
Chloromethane	<5.	µg/L	1.0	5.0	EPA 8260	02/26/96	TG	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	02/26/96	TG	
Vinyl chloride	<2.	µg/L	1.0	2.0	EPA 8260	02/26/96	TG	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	02/26/96	TG	
Methylene chloride	<3.	µg/L	1.0	3.0	EPA 8260	02/26/96	TG	
Acetone	<5.	µg/L	1.0	5.0	EPA 8260	02/26/96	TG	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	02/26/96	TG	
1,1-Dichloroethene	<1.	µg/L	1.0	1.0	EPA 8260	02/26/96	TG	
1,1-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	02/26/96	TG	
Total 1,2-Dichloroethene	<2.	µg/L	1.0	2.0	EPA 8260	02/26/96	TG	
Chloroform	<2.	µg/L	1.0	2.0	EPA 8260	02/26/96	TG	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	02/26/96	TG	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	02/26/96	TG	
1,1,1-Trichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	02/26/96	TG	
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	02/26/96	TG	
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	02/26/96	TG	

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03/19/96

LJO/jcbeaw/gbp(dw)/kwh
MB26VLW1

340 County Road No. 5
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Katahdin
ANALYTICAL SERVICES

Lab Number : WM-0337-3
Report Date: 03/19/96
PO No. : 802LSQA

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

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
95MW003	Aqueous	K. RUSCZYK	02/22/96	02/23/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	02/26/96	TG	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	02/26/96	TG	
Trichloroethene	<2.5	µg/L	1.0	2.5	EPA 8260	02/26/96	TG	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	02/26/96	TG	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	02/26/96	TG	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	02/26/96	TG	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	02/26/96	TG	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	02/26/96	TG	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	02/26/96	TG	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	02/26/96	TG	
Tetrachloroethene	<2.	µg/L	1.0	2.0	EPA 8260	02/26/96	TG	
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	02/26/96	TG	
Toluene	<2.	µg/L	1.0	2.0	EPA 8260	02/26/96	TG	
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	02/26/96	TG	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	02/26/96	TG	
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	02/26/96	TG	
Total Xylenes	<2.	µg/L	1.0	2.0	EPA 8260	02/26/96	TG	

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03/19/96

LJO/jcbeaw/gbp(dw)/kwh
MB26VLW1

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Katahdin
ANALYTICAL SERVICES

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

Lab Number : WM-0337-3
Report Date: 03/19/96
PO No. : 802LSOA

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
95MW003	Aqueous	K. RUSCZYK	02/22/96	02/23/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Dibromofluoromethane (Surr.)	102.	%	1.0		EPA 8260	02/26/96	TG	
Toluene-d8 (Surr.)	99.	%	1.0		EPA 8260	02/26/96	TG	
p-Bromofluorobenzene (Surr.)	100.	%	1.0		EPA 8260	02/26/96	TG	
1,2-Dichlorobenzene	<2.	µg/L	1.0	2.0	EPA 8260	02/26/96	TG	
1,3-Dichlorobenzene	<2.	µg/L	1.0	2.0	EPA 8260	02/26/96	TG	
1,4-Dichlorobenzene	<2.	µg/L	1.0	2.0	EPA 8260	02/26/96	TG	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

03/19/96

LJO/jcbeaw/gbp(dw)/kwh
MB26VLW1

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Sample Name: 95MW003

Lab Name: Katahdin ASI

SDG No.: 95MW001

Matrix (soil/water): Water

Lab Sample ID: WM0337-3

Sample wt/vol: 5 (g/ml) ml

Lab File ID: I0979.D

Level: (low/med) low

Date Received: 2/23/96

% Moisture: not dec. N/A

Date Analyzed: 2/26/96

GC Column: RTX-502.2 ID: 0.53

Dilution Factor: 1.0

Soil Extract Volume: 0 (ul)

Soil Aliquot Volume: 0 (ul)

Number of TIC's Found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
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Katahdin
ANALYTICAL SERVICES

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

Lab Number : WM-0337-3
Report Date: 03/19/96
PO No. : 802LSOA

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
95MW003	Aqueous	K. RUSCZYK	02/22/96	02/23/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
TCL Semivolatile Organics by USEPA 8270B								1
Phenol	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
bis(2-Chloroethyl)ether	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
2-Chlorophenol	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
1,3-Dichlorobenzene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
1,4-Dichlorobenzene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
1,2-Dichlorobenzene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
2-Methylphenol	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
bis(2-Chloroisopropyl) ether	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
4-Methylphenol	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
n-Nitroso-dipropylamine	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
Hexachloroethane	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
Nitrobenzene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
Isophorone	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
2-Nitrophenol	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	

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(1) Sample Preparation on 02/27/96 by BWG using EPA 3520

03/19/96

LJO/jcbgbp(dw)/kwh
MB27BNW1

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Katahdin
ANALYTICAL SERVICES

CLIENT: Data Management
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Newburgh, NY 12550

Lab Number : WM-0337-3
Report Date: 03/19/96
PO No. : 802LSOA

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
95MW003	Aqueous	K. RUSCZYK	02/22/96	02/23/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
2,4-Dimethylphenol	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
bis(2-Chloroethoxy)methane	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
2,4-Dichlorophenol	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
1,2,4-Trichlorobenzene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
Naphthalene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
4-Chloroaniline	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
Hexachlorobutadiene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
4-Chloro-3-methylphenol	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
2-Methylnaphthalene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
Hexachlorocyclopentadiene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
2,4,6-Trichlorophenol	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
2,4,5-Trichlorophenol	<25.	µg/L	1.0	25	EPA 8270B	03/04/96	LM	
2-Chloronaphthalene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
2-Nitroaniline	<25.	µg/L	1.0	25	EPA 8270B	03/04/96	LM	
Dimethylphthalate	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
Acenaphthylene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	

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03/19/96

LJO/jcbgbp(dw)/kwh
MB27BNW1

Katahdin
ANALYTICAL SERVICES

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

Lab Number : WM-0337-3
Report Date: 03/19/96
PO No. : 802LSQA

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
95MW003	Aqueous	K. RUSCZYK	02/22/96	02/23/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
2,6-Dinitrotoluene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
3-Nitroaniline	<25.	µg/L	1.0	25	EPA 8270B	03/04/96	LM	
Acenaphthene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
2,4-Dinitrophenol	<25.	µg/L	1.0	25	EPA 8270B	03/04/96	LM	
4-Nitrophenol	<25.	µg/L	1.0	25	EPA 8270B	03/04/96	LM	
Dibenzofuran	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
2,4-Dinitrotoluene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
Diethylphthalate	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
4-Chlorophenyl phenyl ether	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
Fluorene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
4-Nitroaniline	<25.	µg/L	1.0	25	EPA 8270B	03/04/96	LM	
4,6-Dinitro-2-methylphenol	<25.	µg/L	1.0	25	EPA 8270B	03/04/96	LM	
n-Nitrosodiphenylamine	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
4-Bromophenyl phenyl ether	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
Hexachlorobenzene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
Pentachlorophenol	<25.	µg/L	1.0	25	EPA 8270B	03/04/96	LM	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

03/19/96

LJO/jcbgbp(dw)/kwh
MB27BNW1

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Katahdin
ANALYTICAL SERVICES

Lab Number : WM-0337-3
Report Date: 03/19/96
PO No. : 802LSQA

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

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
95MW003	Aqueous	K. RUSCZYK	02/22/96	02/23/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Phenanthrene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
Anthracene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
Carbazole	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
Di-n-butylphthalate	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
Fluoranthene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
Pyrene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
Butyl benzylphthalate	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
3,3'-Dichlorobenzidine	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
Benzo(a)anthracene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
Chrysene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
bis(2-Ethylhexyl)phthalate	42.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
Di-n-octylphthalate	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
Benzo(b)fluoranthene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
Benzo(k)fluoranthene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
Benzo(a)pyrene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
Indeno(1,2,3-cd)pyrene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	

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03/19/96

LJO/jcbgbp(dw)/kwh
MB27BNW1

Katahdin
ANALYTICAL SERVICES

Lab Number : WM-0337-3
Report Date: 03/19/96
PO No. : 802LSOA

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

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
95MW003	Aqueous	K. RUSCZYK	02/22/96	02/23/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Dibenzo(a,h)anthracene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
Benzo(g,h,i)perylene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
2-Fluorophenol (% Recovery)	75.	%	1.0		EPA 8270B	03/04/96	LM	
Phenol-d5 (% Recovery)	71.	%	1.0		EPA 8270B	03/04/96	LM	
Nitrobenzene-d5 (% Recovery)	68.	%	1.0		EPA 8270B	03/04/96	LM	
2-Fluorobiphenyl (% Recovery)	75.	%	1.0		EPA 8270B	03/04/96	LM	
2,4,6-Tribromophenol (% Recovery)	119.	%	1.0		EPA 8270B	03/04/96	LM	
Terphenyl-d14 (% Recovery)	120.	%	1.0		EPA 8270B	03/04/96	LM	

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03/19/96

LJO/jcbgbp(dw)/kwh
MB27BNW1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Sample Name: 95MW003

Lab Name: Katahdin ASI

SDG No.: 95MW001

Matrix (soil/water): Water

Lab Sample ID: WM0337-3

Sample wt/vol: 1000 (g/ml) ml

Lab File ID: K0477.D

Level: (low/med) low

Date Received: 2/23/96

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

Date Extracted: 2/27/96

Concentrated Extract Volume 1000 (ul)

Date Analyzed: 3/4/96

Injection Volume 1.0 (ul)

Dilution Factor: 1.0

GPC Cleanup: N (Y/N)

Soil Aliquot Volume: 0 (ul)

pH: N/A

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

Number of TIC's: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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21.				
22.				

Katahdin
ANALYTICAL SERVICES

Lab Number : WM-0337-3
Report Date: 03/19/96
PO No. : 802LSOA

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

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
95MW003	Aqueous	K. RUSCZYK	02/22/96	02/23/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
TCL Pesticides by USEPA 8080								1,2
alpha-BHC	<0.05	µg/L	1.0	0.05	EPA 8080	03/04/96	SW	
gamma-BHC (Lindane)	<0.05	µg/L	1.0	0.05	EPA 8080	03/04/96	SW	
Heptachlor	<0.05	µg/L	1.0	0.05	EPA 8080	03/04/96	SW	
Aldrin	<0.05	µg/L	1.0	0.05	EPA 8080	03/04/96	SW	
beta-BHC	<0.05	µg/L	1.0	0.05	EPA 8080	03/04/96	SW	
delta-BHC	<0.05	µg/L	1.0	0.05	EPA 8080	03/04/96	SW	
Heptachlor epoxide	<0.05	µg/L	1.0	0.05	EPA 8080	03/04/96	SW	
Endosulfan I	<0.05	µg/L	1.0	0.05	EPA 8080	03/04/96	SW	
gamma-Chlordane	<0.05	µg/L	1.0	0.05	EPA 8080	03/04/96	SW	
alpha-Chlordane	<0.05	µg/L	1.0	0.05	EPA 8080	03/04/96	SW	
4,4'-DDE	<0.1	µg/L	1.0	0.1	EPA 8080	03/04/96	SW	
Dieldrin	<0.1	µg/L	1.0	0.1	EPA 8080	03/04/96	SW	
Endrin	<0.1	µg/L	1.0	0.1	EPA 8080	03/04/96	SW	
4,4'-DDD	J0.052	µg/L	1.0	0.1	EPA 8080	03/04/96	SW	

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(1) Sample Preparation on 02/26/96 by BWG using EPA 3510
(2) "J" flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.

03/19/96

LJO/jcbgbp(dw)/kwh/sw

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Katahdin
ANALYTICAL SERVICES

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

Lab Number : WM-0337-3
Report Date: 03/19/96
PO No. : 802LSQA

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
95MW003	Aqueous	K. RUSCZYK	02/22/96	02/23/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Endosulfan II	<0.1	µg/L	1.0	0.1	EPA 8080	03/04/96	SW	
4,4'-DDT	J0.072	µg/L	1.0	0.1	EPA 8080	03/04/96	SW	
Endrin aldehyde	<0.1	µg/L	1.0	0.1	EPA 8080	03/04/96	SW	
Endosulfan sulfate	<0.1	µg/L	1.0	0.1	EPA 8080	03/04/96	SW	
Methoxychlor	<0.5	µg/L	1.0	0.5	EPA 8080	03/04/96	SW	
Endrin ketone	<0.1	µg/L	1.0	0.1	EPA 8080	03/04/96	SW	
Toxaphene	<1.	µg/L	1.0	1	EPA 8080	03/04/96	SW	
2,4,5,6-Tetrachloro-meta-xylene (%	58.	%	1.0		EPA 8080	03/04/96	SW	
Decachlorobiphenyl (% Recovery)	63.	%	1.0		EPA 8080	03/04/96	SW	

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03/19/96

LJO/jcbgbp(dw)/kwh/sw

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U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

95MW003

Lab Name: KATAHDIN_ANALYTICAL_____ Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 95MW00

Matrix (soil/water): WATER Lab Sample ID: WM0337-3

Level (low/med): LOW__ Date Received: 02/23/96

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	665			P
7440-36-0	Antimony_	4.1	U		P
7440-38-2	Arsenic__	3.4	U		P
7440-39-3	Barium___	18.7	B	E	P
7440-41-7	Beryllium	0.09	U		P
7440-43-9	Cadmium__	0.21	U		P
7440-70-2	Calcium__	5670		E	P
7440-47-3	Chromium_	1.8	B		P
7440-48-4	Cobalt___	0.71	U		P
7440-50-8	Copper___	2.1	B		P
7439-89-6	Iron_____	2020			P
7439-92-1	Lead_____	1.5	B		P
7439-95-4	Magnesium	662	B	E	P
7439-96-5	Manganese	54.3		E	P
7439-97-6	Mercury__	0.10	U		CV
7440-02-0	Nickel___	1.5	B		P
7440-09-7	Potassium	1810	B		P
7782-49-2	Selenium_	5.3	U		P
7440-22-4	Silver___	5.2	U		P
7440-23-5	Sodium___	27100			P
7440-28-0	Thallium_	5.8	U		P
7440-62-2	Vanadium_	5.1	B		P
7440-66-6	Zinc_____	10.1	B		P
_____	Cyanide__	1.5	B		AS

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

FORM I - IN ILM03.0

Katahdin
ANALYTICAL SERVICES

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

Lab Number : WM-0337-2
Report Date: 03/19/96
PO No. : 802LSOA

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
95MW002	Aqueous	K. RUSCZYK	02/22/96	02/23/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Volatile Organics by EPA 8260								
Chloromethane	<5.	µg/L	1.0	5.0	EPA 8260	02/26/96	TG	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	02/26/96	TG	
Vinyl chloride	<2.	µg/L	1.0	2.0	EPA 8260	02/26/96	TG	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	02/26/96	TG	
Methylene chloride	<3.	µg/L	1.0	3.0	EPA 8260	02/26/96	TG	
Acetone	<5.	µg/L	1.0	5.0	EPA 8260	02/26/96	TG	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	02/26/96	TG	
1,1-Dichloroethene	<1.	µg/L	1.0	1.0	EPA 8260	02/26/96	TG	
1,1-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	02/26/96	TG	
Total 1,2-Dichloroethene	<2.	µg/L	1.0	2.0	EPA 8260	02/26/96	TG	
Chloroform	<2.	µg/L	1.0	2.0	EPA 8260	02/26/96	TG	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	02/26/96	TG	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	02/26/96	TG	
1,1,1-Trichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	02/26/96	TG	
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	02/26/96	TG	
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	02/26/96	TG	

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03/19/96

LJO/jcbeaw/gbp(dw)/kwh
MB26VLW1

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Katahdin
ANALYTICAL SERVICES

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Newburgh, NY 12550

Lab Number : WM-0337-2
Report Date: 03/19/96
PO No. : 802LSOA

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
95MW002	Aqueous	K. RUSCZYK	02/22/96	02/23/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	02/26/96	TG	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	02/26/96	TG	
Trichloroethene	<2.5	µg/L	1.0	2.5	EPA 8260	02/26/96	TG	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	02/26/96	TG	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	02/26/96	TG	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	02/26/96	TG	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	02/26/96	TG	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	02/26/96	TG	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	02/26/96	TG	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	02/26/96	TG	
Tetrachloroethene	<2.	µg/L	1.0	2.0	EPA 8260	02/26/96	TG	
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	02/26/96	TG	
Toluene	<2.	µg/L	1.0	2.0	EPA 8260	02/26/96	TG	
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	02/26/96	TG	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	02/26/96	TG	
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	02/26/96	TG	
Total Xylenes	<2.	µg/L	1.0	2.0	EPA 8260	02/26/96	TG	

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03/19/96

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ANALYTICAL SERVICES

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PO No. : 802LSOA

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
95MW002	Aqueous	K. RUSCZYK	02/22/96	02/23/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Dibromofluoromethane (Surr.)	104.	%	1.0		EPA 8260	02/26/96	TG	
Toluene-d8 (Surr.)	98.	%	1.0		EPA 8260	02/26/96	TG	
p-Bromofluorobenzene (Surr.)	99.	%	1.0		EPA 8260	02/26/96	TG	
1,2-Dichlorobenzene	<2.	µg/L	1.0	2.0	EPA 8260	02/26/96	TG	
1,3-Dichlorobenzene	<2.	µg/L	1.0	2.0	EPA 8260	02/26/96	TG	
1,4-Dichlorobenzene	<2.	µg/L	1.0	2.0	EPA 8260	02/26/96	TG	

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03/19/96

LJO/jcbeaw/gbp(dw)/kwh
MB26VLW1

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Sample Name: 95MW002

Lab Name	Katahdin ASI	SDG No.:	95MW001
Matrix (soil/water)	Water	Lab Sample ID:	WM0337-2
Sample wt/vol:	5 (g/ml) ml	Lab File ID:	I0978.D
Level: (low/med)	low	Date Received:	2/23/96
% Moisture: not dec.	N/A	Date Analyzed:	2/26/96
GC Column:	RTX-502.2 ID: 0.53	Dilution Factor:	1.0
Soil Extract Volume:	0 (ul)	Soil Aliquot Volume:	0 (ul)

Number of TIC's Found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
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Katahdin
ANALYTICAL SERVICES

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

Lab Number : WM-0337-2
Report Date: 03/19/96
PO No. : 802LSQA

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
95MW002	Aqueous	K. RUSCZYK	02/22/96	02/23/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
TCL Semivolatile Organics by USEPA 8270B								1
Phenol	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
bis(2-Chloroethyl)ether	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
2-Chlorophenol	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
1,3-Dichlorobenzene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
1,4-Dichlorobenzene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
1,2-Dichlorobenzene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
2-Methylphenol	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
bis(2-Chloroisopropyl) ether	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
4-Methylphenol	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
n-Nitroso-dipropylamine	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
Hexachloroethane	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
Nitrobenzene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
Isophorone	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
2-Nitrophenol	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 02/27/96 by BWG using EPA 3520

03/19/96

LJO/jcbgbp(dw)/kwh
MB27BNW1

Katahdin
ANALYTICAL SERVICES

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

Lab Number : WM-0337-2
Report Date: 03/19/96
PO No. : 802LSQA

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
95MW002	Aqueous	K. RUSCZYK	02/22/96	02/23/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
2,4-Dimethylphenol	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
bis(2-Chloroethoxy)methane	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
2,4-Dichlorophenol	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
1,2,4-Trichlorobenzene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
Naphthalene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
4-Chloroaniline	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
Hexachlorobutadiene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
4-Chloro-3-methylphenol	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
2-Methylnaphthalene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
Hexachlorocyclopentadiene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
2,4,6-Trichlorophenol	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
2,4,5-Trichlorophenol	<25.	µg/L	1.0	25	EPA 8270B	03/04/96	LM	
2-Chloronaphthalene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
2-Nitroaniline	<25.	µg/L	1.0	25	EPA 8270B	03/04/96	LM	
Dimethylphthalate	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
Acenaphthylene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	

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03/19/96

LJO/jcbgbp(dw)/kwh
MB27BNW1

Katahdin
ANALYTICAL SERVICES

Lab Number : WM-0337-2
Report Date: 03/19/96
PO No. : 802LSOA

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

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
95MW002	Aqueous	K. RUSCZYK	02/22/96	02/23/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
2,6-Dinitrotoluene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
3-Nitroaniline	<25.	µg/L	1.0	25	EPA 8270B	03/04/96	LM	
Acenaphthene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
2,4-Dinitrophenol	<25.	µg/L	1.0	25	EPA 8270B	03/04/96	LM	
4-Nitrophenol	<25.	µg/L	1.0	25	EPA 8270B	03/04/96	LM	
Dibenzofuran	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
2,4-Dinitrotoluene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
Diethylphthalate	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
4-Chlorophenyl phenyl ether	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
Fluorene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
4-Nitroaniline	<25.	µg/L	1.0	25	EPA 8270B	03/04/96	LM	
4,6-Dinitro-2-methylphenol	<25.	µg/L	1.0	25	EPA 8270B	03/04/96	LM	
n-Nitrosodiphenylamine	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
4-Bromophenyl phenyl ether	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
Hexachlorobenzene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
Pentachlorophenol	<25.	µg/L	1.0	25	EPA 8270B	03/04/96	LM	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values

03/19/96

LJO/jcbgbp (dw) /kwh
MB27BNW1

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Katahdin
ANALYTICAL SERVICES

Lab Number : WM-0337-2
Report Date: 03/19/96
PO No. : 802LSQA

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

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
95MW002	Aqueous	K. RUSCZYK	02/22/96	02/23/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Phenanthrene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
Anthracene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
Carbazole	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
Di-n-butylphthalate	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
Fluoranthene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
Pyrene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
Butyl benzylphthalate	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
3,3'-Dichlorobenzidine	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
Benzo(a)anthracene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
Chrysene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
bis(2-Ethylhexyl)phthalate	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
Di-n-octylphthalate	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
Benzo(b)fluoranthene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
Benzo(k)fluoranthene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
Benzo(a)pyrene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
Indeno(1,2,3-cd)pyrene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	

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03/19/96

LJO/jcbgbp(dw)/kwh
MB27BNW1

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Katahdin
ANALYTICAL SERVICES

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

Lab Number : WM-0337-2
Report Date: 03/19/96
PO No. : 802LSOA

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
95MW002	Aqueous	K. RUSCZYK	02/22/96	02/23/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Dibenzo(a,h)anthracene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
Benzo(g,h,i)perylene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
2-Fluorophenol (% Recovery)	80.	%	1.0		EPA 8270B	03/04/96	LM	
Phenol-d5 (% Recovery)	83.	%	1.0		EPA 8270B	03/04/96	LM	
Nitrobenzene-d5 (% Recovery)	73.	%	1.0		EPA 8270B	03/04/96	LM	
2-Fluorobiphenyl (% Recovery)	76.	%	1.0		EPA 8270B	03/04/96	LM	
2,4,6-Tribromophenol (% Recovery)	109.	%	1.0		EPA 8270B	03/04/96	LM	
Terphenyl-d14 (% Recovery)	69.	%	1.0		EPA 8270B	03/04/96	LM	

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03/19/96

LJO/jcbgbp(dw)/kwh
MB27ENW1

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Sample Name: 95MW002

Lab Name: Katahdin ASI

SDG No.: 95MW001

Matrix (soil/water): Water

Lab Sample ID: WM0337-2

Sample wt/vol: 1000 (g/ml) ml

Lab File ID: K0476.D

Level: (low/med) low

Date Received: 2/23/96

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

Date Extracted: 2/27/96

Concentrated Extract Volume 1000 (ul)

Date Analyzed: 3/4/96

Injection Volume 1.0 (ul)

Dilution Factor: 1.0

GPC Cleanup: N (Y/N)

Soil Aliquot Volume: 0 (ul)

pH: N/A

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

Number of TIC's: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				

Katahdin
ANALYTICAL SERVICES

Lab Number : WM-0337-2
Report Date: 03/19/96
PO No. : 802LSQA

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

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
95MW002	Aqueous	K. RUSCZYK	02/22/96	02/23/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
TCL Pesticides by USEPA 8080								1
alpha-BHC	<0.05	µg/L	1.0	0.05	EPA 8080	03/04/96	SW	
gamma-BHC (Lindane)	<0.05	µg/L	1.0	0.05	EPA 8080	03/04/96	SW	
Heptachlor	<0.05	µg/L	1.0	0.05	EPA 8080	03/04/96	SW	
Aldrin	<0.05	µg/L	1.0	0.05	EPA 8080	03/04/96	SW	
beta-BHC	<0.05	µg/L	1.0	0.05	EPA 8080	03/04/96	SW	
delta-BHC	<0.05	µg/L	1.0	0.05	EPA 8080	03/04/96	SW	
Heptachlor epoxide	<0.05	µg/L	1.0	0.05	EPA 8080	03/04/96	SW	
Endosulfan I	<0.05	µg/L	1.0	0.05	EPA 8080	03/04/96	SW	
gamma-Chlordane	<0.05	µg/L	1.0	0.05	EPA 8080	03/04/96	SW	
alpha-Chlordane	<0.05	µg/L	1.0	0.05	EPA 8080	03/04/96	SW	
4,4'-DDE	<0.1	µg/L	1.0	0.1	EPA 8080	03/04/96	SW	
Dieldrin	<0.1	µg/L	1.0	0.1	EPA 8080	03/04/96	SW	
Endrin	<0.1	µg/L	1.0	0.1	EPA 8080	03/04/96	SW	
4,4'-DDD	<0.1	µg/L	1.0	0.1	EPA 8080	03/04/96	SW	
Endosulfan II	<0.1	µg/L	1.0	0.1	EPA 8080	03/04/96	SW	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 02/26/96 by BWG using EPA 3510

03/19/96

LJO/jcbgbp(dw)/kwh/sw

340 County Road No. 5
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Katahdin
ANALYTICAL SERVICES

Lab Number : WM-0337-2
Report Date: 03/19/96
PO No. : 802LSOA

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

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
95MW002	Aqueous	K. RUSCZYK	02/22/96	02/23/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
4,4'-DDT	<0.1	µg/L	1.0	0.1	EPA 8080	03/04/96	SW	
Endrin aldehyde	<0.1	µg/L	1.0	0.1	EPA 8080	03/04/96	SW	
Endosulfan sulfate	<0.1	µg/L	1.0	0.1	EPA 8080	03/04/96	SW	
Methoxychlor	<0.5	µg/L	1.0	0.5	EPA 8080	03/04/96	SW	
Endrin ketone	<0.1	µg/L	1.0	0.1	EPA 8080	03/04/96	SW	
Toxaphene	<1.	µg/L	1.0	1	EPA 8080	03/04/96	SW	
2,4,5,6-Tetrachloro-meta-xylene (%	51.	%	1.0		EPA 8080	03/04/96	SW	
Decachlorobiphenyl (% Recovery)	69.	%	1.0		EPA 8080	03/04/96	SW	

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03/19/96

LJO/jcbgbp(dw)/kwh/sw

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U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

95MW002

Lab Name: KATAHDIN_ANALYTICAL_____ Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 95MW00

Matrix (soil/water): WATER Lab Sample ID: WM0337-2

Level (low/med): LOW__ Date Received: 02/23/96

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	166	B		P_
7440-36-0	Antimony_	4.1	U		P_
7440-38-2	Arsenic__	3.4	U		P_
7440-39-3	Barium___	25.6	B	E	P_
7440-41-7	Beryllium	0.09	U		P_
7440-43-9	Cadmium__	0.21	U		P_
7440-70-2	Calcium__	13800		E	P_
7440-47-3	Chromium_	0.82	B		P_
7440-48-4	Cobalt___	2.3	B		P_
7440-50-8	Copper___	2.1	B		P_
7439-89-6	Iron____	282			P_
7439-92-1	Lead____	2.1	B		P_
7439-95-4	Magnesium	2210	B	E	P_
7439-96-5	Manganese	647		E	P_
7439-97-6	Mercury__	0.15	B		CV
7440-02-0	Nickel___	1.9	B		P_
7440-09-7	Potassium	2710	B		P_
7782-49-2	Selenium_	5.3	U		P_
7440-22-4	Silver___	5.2	U		P_
7440-23-5	Sodium___	20400			P_
7440-28-0	Thallium_	5.8	U		P_
7440-62-2	Vanadium_	3.9	B		P_
7440-66-6	Zinc____	8.0	B		P_
	Cyanide__	2.5	B		AS

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

FORM I - IN ILM03.0

Katahdin
ANALYTICAL SERVICES

Lab Number : WM-0337-5
Report Date: 03/19/96
PO No. : 802LSOA

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

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
95MWXD1	Aqueous	K. RUSCZYK	02/22/96	02/23/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Volatile Organics by EPA 8260								
Chloromethane	<5.	µg/L	1.0	5.0	EPA 8260	02/26/96	TG	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	02/26/96	TG	
Vinyl chloride	<2.	µg/L	1.0	2.0	EPA 8260	02/26/96	TG	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	02/26/96	TG	
Methylene chloride	<3.	µg/L	1.0	3.0	EPA 8260	02/26/96	TG	
Acetone	<5.	µg/L	1.0	5.0	EPA 8260	02/26/96	TG	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	02/26/96	TG	
1,1-Dichloroethene	<1.	µg/L	1.0	1.0	EPA 8260	02/26/96	TG	
1,1-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	02/26/96	TG	
Total 1,2-Dichloroethene	<2.	µg/L	1.0	2.0	EPA 8260	02/26/96	TG	
Chloroform	<2.	µg/L	1.0	2.0	EPA 8260	02/26/96	TG	
1,2-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	02/26/96	TG	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	02/26/96	TG	
1,1,1-Trichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	02/26/96	TG	
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	02/26/96	TG	
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	02/26/96	TG	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

03/19/96

LJO/jcbeaw/gbp(dw)/kwh
MB26VLW1

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Katahdin
ANALYTICAL SERVICES

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

Lab Number : WM-0337-5
Report Date: 03/19/96
PO No. : 802LSOA

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
95MWXD1	Aqueous	K. RUSCZYK	02/22/96	02/23/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	02/26/96	TG	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	02/26/96	TG	
Trichloroethene	<2.5	µg/L	1.0	2.5	EPA 8260	02/26/96	TG	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	02/26/96	TG	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	02/26/96	TG	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	02/26/96	TG	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	02/26/96	TG	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	02/26/96	TG	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	02/26/96	TG	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	02/26/96	TG	
Tetrachloroethene	<2.	µg/L	1.0	2.0	EPA 8260	02/26/96	TG	
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	02/26/96	TG	
Toluene	<2.	µg/L	1.0	2.0	EPA 8260	02/26/96	TG	
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	02/26/96	TG	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	02/26/96	TG	
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	02/26/96	TG	
Total Xylenes	<2.	µg/L	1.0	2.0	EPA 8260	02/26/96	TG	

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03/19/96

LJO/jcbeaw/gbp(dw)/kwh
MB26VLW1

Katahdin
ANALYTICAL SERVICES

Lab Number : WM-0337-5
Report Date: 03/19/96
PO No. : 802LSOA

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

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
95MWXD1	Aqueous	K. RUSCZYK	02/22/96	02/23/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Dibromofluoromethane (Surr.)	102.	%	1.0		EPA 8260	02/26/96	TG	
Toluene-d8 (Surr.)	101.	%	1.0		EPA 8260	02/26/96	TG	
p-Bromofluorobenzene (Surr.)	104.	%	1.0		EPA 8260	02/26/96	TG	
1,2-Dichlorobenzene	<2.	µg/L	1.0	2.0	EPA 8260	02/26/96	TG	
1,3-Dichlorobenzene	<2.	µg/L	1.0	2.0	EPA 8260	02/26/96	TG	
1,4-Dichlorobenzene	<2.	µg/L	1.0	2.0	EPA 8260	02/26/96	TG	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

03/19/96

LJO/jcbeaw/gbp(dw)/kwh
MB26VLW1

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1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Sample Name: 95MWXD1

Lab Name: Katahdin ASI

SDG No.: 95MW001

Matrix (soil/water): Water

Lab Sample ID: WM0337-5

Sample wt/vol: 5 (g/ml) ml

Lab File ID: I0981.D

Level: (low/med) low

Date Received: 2/23/96

% Moisture: not dec. N/A

Date Analyzed: 2/26/96

GC Column: RTX-502.2 ID: 0.53

Dilution Factor: 1.0

Soil Extract Volume: 0 (ul)

Soil Aliquot Volume: 0 (ul)

Number of TIC's Found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
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30.				

Katahdin
ANALYTICAL SERVICES

Lab Number : WM-0337-5
Report Date: 03/19/96
PO No. : 802LSOA

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

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
95MWXD1	Aqueous	K. RUSCZYK	02/22/96	02/23/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
TCL Semivolatile Organics by USEPA 8270B								1
Phenol	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
bis(2-Chloroethyl)ether	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
2-Chlorophenol	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
1,3-Dichlorobenzene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
1,4-Dichlorobenzene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
1,2-Dichlorobenzene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
2-Methylphenol	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
bis(2-Chloroisopropyl) ether	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
4-Methylphenol	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
n-Nitroso-dipropylamine	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
Hexachloroethane	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
Nitrobenzene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
Isophorone	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
2-Nitrophenol	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 02/27/96 by BWG using EPA 3520

03/19/96

LJO/jcbgbp(dw)/kwh
MB27BNW1

Katahdin ANALYTICAL SERVICES

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

Lab Number : WM-0337-5
Report Date: 03/19/96
PO No. : 802LSOA

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
95MWXD1	Aqueous	K. RUSCZYK	02/22/96	02/23/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTE
2,4-Dimethylphenol	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
bis(2-Chloroethoxy)methane	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
2,4-Dichlorophenol	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
1,2,4-Trichlorobenzene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
Naphthalene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
4-Chloroaniline	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
Hexachlorobutadiene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
4-Chloro-3-methylphenol	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
2-Methylnaphthalene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
Hexachlorocyclopentadiene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
2,4,6-Trichlorophenol	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
2,4,5-Trichlorophenol	<25.	µg/L	1.0	25	EPA 8270B	03/04/96	LM	
2-Chloronaphthalene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
2-Nitroaniline	<25.	µg/L	1.0	25	EPA 8270B	03/04/96	LM	
Dimethylphthalate	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
Acenaphthylene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	

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03/19/96

LJO/jcbgbp(dw)/kwh
MB27BNW1

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Katahdin
ANALYTICAL SERVICES

Lab Number : WM-0337-5
Report Date: 03/19/96
PO No. : 802LSQA

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

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
95MWXD1	Aqueous	K. RUSCZYK	02/22/96	02/23/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
2,6-Dinitrotoluene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
3-Nitroaniline	<25.	µg/L	1.0	25	EPA 8270B	03/04/96	LM	
Acenaphthene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
2,4-Dinitrophenol	<25.	µg/L	1.0	25	EPA 8270B	03/04/96	LM	
4-Nitrophenol	<25.	µg/L	1.0	25	EPA 8270B	03/04/96	LM	
Dibenzofuran	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
2,4-Dinitrotoluene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
Diethylphthalate	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
4-Chlorophenyl phenyl ether	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
Fluorene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
4-Nitroaniline	<25.	µg/L	1.0	25	EPA 8270B	03/04/96	LM	
4,6-Dinitro-2-methylphenol	<25.	µg/L	1.0	25	EPA 8270B	03/04/96	LM	
n-Nitrosodiphenylamine	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
4-Bromophenyl phenyl ether	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
Hexachlorobenzene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
Pentachlorophenol	<25.	µg/L	1.0	25	EPA 8270B	03/04/96	LM	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

03/19/96

LJO/jcbgbp(dw)/kwh
MB27BNW1

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Katahdin
ANALYTICAL SERVICES

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

Lab Number : WM-0337-5
Report Date: 03/19/96
PO No. : 802LSOA

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
95MWXD1	Aqueous	K. RUSCZYK	02/22/96	02/23/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTE
Phenanthrene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
Anthracene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
Carbazole	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
Di-n-butylphthalate	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
Fluoranthene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
Pyrene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
Butyl benzylphthalate	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
3,3'-Dichlorobenzidine	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
Benzo(a)anthracene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
Chrysene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
bis(2-Ethylhexyl)phthalate	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
Di-n-octylphthalate	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
Benzo(b)fluoranthene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
Benzo(k)fluoranthene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
Benzo(a)pyrene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
Indeno(1,2,3-cd)pyrene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

03/19/96

LJO/jcbgbp(dw)/kwh
MB27BNW1

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Katahdin
ANALYTICAL SERVICES

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

Lab Number : WM-0337-5
Report Date: 03/19/96
PO No. : 802LSQA

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
95MWXD1	Aqueous	K. RUSCZYK	02/22/96	02/23/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Dibenzo(a,h)anthracene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
Benzo(g,h,i)perylene	<10.	µg/L	1.0	10	EPA 8270B	03/04/96	LM	
2-Fluorophenol (% Recovery)	73.	%	1.0		EPA 8270B	03/04/96	LM	
Phenol-d5 (% Recovery)	75.	%	1.0		EPA 8270B	03/04/96	LM	
Nitrobenzene-d5 (% Recovery)	72.	%	1.0		EPA 8270B	03/04/96	LM	
2-Fluorobiphenyl (% Recovery)	76.	%	1.0		EPA 8270B	03/04/96	LM	
2,4,6-Tribromophenol (% Recovery)	89.	%	1.0		EPA 8270B	03/04/96	LM	
Terphenyl-d14 (% Recovery)	67.	%	1.0		EPA 8270B	03/04/96	LM	

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03/19/96

LJO/jcbgbp(dw)/kwh
MB27BNW1

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Sample Name: 95MWXD1

Lab Name: Katahdin ASI

SDG No.: 95MW001

Matrix (soil/water): Water

Lab Sample ID: WM0337-5

Sample wt/vol: 1000 (g/ml) ml

Lab File ID: K0479.D

Level: (low/med) low

Date Received: 2/23/96

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

Date Extracted: 2/27/96

Concentrated Extract Volume 1000 (ul)

Date Analyzed: 3/4/96

Injection Volume 1.0 (ul)

Dilution Factor: 1.0

GPC Cleanup: N (Y/N)

Soil Aliquot Volume: 0 (ul)

pH: N/A

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

Number of TIC's: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
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22.				

Katahdin
ANALYTICAL SERVICES

Lab Number : WM-0337-5
Report Date: 03/19/96
PO No. : 802LSQA

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

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
95MWXD1	Aqueous	K. RUSCZYK	02/22/96	02/23/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
TCL Pesticides by USEPA 8080								1
alpha-BHC	<0.05	µg/L	1.0	0.05	EPA 8080	03/04/96	SW	
gamma-BHC (Lindane)	<0.05	µg/L	1.0	0.05	EPA 8080	03/04/96	SW	
Heptachlor	<0.05	µg/L	1.0	0.05	EPA 8080	03/04/96	SW	
Aldrin	<0.05	µg/L	1.0	0.05	EPA 8080	03/04/96	SW	
beta-BHC	<0.05	µg/L	1.0	0.05	EPA 8080	03/04/96	SW	
delta-BHC	<0.05	µg/L	1.0	0.05	EPA 8080	03/04/96	SW	
Heptachlor epoxide	<0.05	µg/L	1.0	0.05	EPA 8080	03/04/96	SW	
Endosulfan I	<0.05	µg/L	1.0	0.05	EPA 8080	03/04/96	SW	
gamma-Chlordane	<0.05	µg/L	1.0	0.05	EPA 8080	03/04/96	SW	
alpha-Chlordane	<0.05	µg/L	1.0	0.05	EPA 8080	03/04/96	SW	
4,4'-DDE	<0.1	µg/L	1.0	0.1	EPA 8080	03/04/96	SW	
Dieldrin	<0.1	µg/L	1.0	0.1	EPA 8080	03/04/96	SW	
Endrin	<0.1	µg/L	1.0	0.1	EPA 8080	03/04/96	SW	
4,4'-DDD	<0.1	µg/L	1.0	0.1	EPA 8080	03/04/96	SW	
Endosulfan II	<0.1	µg/L	1.0	0.1	EPA 8080	03/04/96	SW	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 02/26/96 by BWG using EPA 3510

03/19/96

LJO/jcbgbp(dw)/kwh/sw

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Katahdin
ANALYTICAL SERVICES

Lab Number : WM-0337-5
Report Date: 03/19/96
PO No. : 802LSOA

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

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
95MWXD1	Aqueous	K. RUSCZYK	02/22/96	02/23/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
4,4'-DDT	<0.1	µg/L	1.0	0.1	EPA 8080	03/04/96	SW	
Endrin aldehyde	<0.1	µg/L	1.0	0.1	EPA 8080	03/04/96	SW	
Endosulfan sulfate	<0.1	µg/L	1.0	0.1	EPA 8080	03/04/96	SW	
Methoxychlor	<0.5	µg/L	1.0	0.5	EPA 8080	03/04/96	SW	
Endrin ketone	<0.1	µg/L	1.0	0.1	EPA 8080	03/04/96	SW	
Toxaphene	<1	µg/L	1.0	1	EPA 8080	03/04/96	SW	
2,4,5,6-Tetrachloro-meta-xylene (%	54.	%	1.0		EPA 8080	03/04/96	SW	
Decachlorobiphenyl (% Recovery)	70.	%	1.0		EPA 8080	03/04/96	SW	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

03/19/96

LJO/jcbgbp(dw)/kwh/sw

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Tel: (603) 431-5777 Fax: (603) 436-3356

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

95MWXD1

Lab Name: KATAHDIN_ANALYTICAL_____ Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 95MW00

Matrix (soil/water): WATER Lab Sample ID: WM0337-5

Level (low/med): LOW__ Date Received: 02/23/96

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	157	B		P
7440-36-0	Antimony_	4.1	U		P
7440-38-2	Arsenic__	3.4	U		P
7440-39-3	Barium___	23.6	B	E	P
7440-41-7	Beryllium	0.09	U		P
7440-43-9	Cadmium__	0.21	U		P
7440-70-2	Calcium__	12800		E	P
7440-47-3	Chromium_	0.90	B		P
7440-48-4	Cobalt___	2.0	B		P
7440-50-8	Copper___	2.1	B		P
7439-89-6	Iron____	271			P
7439-92-1	Lead____	1.2	B		P
7439-95-4	Magnesium	2080	B	E	P
7439-96-5	Manganese	604		E	P
7439-97-6	Mercury__	0.10	U		CV
7440-02-0	Nickel___	2.0	B		P
7440-09-7	Potassium	2210	B		P
7782-49-2	Selenium_	5.3	U		P
7440-22-4	Silver___	5.2	U		P
7440-23-5	Sodium___	19100			P
7440-28-0	Thallium_	5.8	U		P
7440-62-2	Vanadium_	3.1	B		P
7440-66-6	Zinc____	6.8	U		P
	Cyanide__	1.3	U		AS

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

FORM I - IN ILM03.0

Katahdin
ANALYTICAL SERVICES

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

Lab Number : WM-0337-6
Report Date: 03/19/96
PO No. : 802LSOA

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
95QT006	Aqueous	K. RUSCZYK	02/22/96	02/23/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Volatile Organics by EPA 8260								1
Chloromethane	<5.	µg/L	1.0	5.0	EPA 8260	02/26/96	TG	
Bromomethane	<5.	µg/L	1.0	5.0	EPA 8260	02/26/96	TG	
Vinyl chloride	<2.	µg/L	1.0	2.0	EPA 8260	02/26/96	TG	
Chloroethane	<2.	µg/L	1.0	2.0	EPA 8260	02/26/96	TG	
Methylene chloride	<3.	µg/L	1.0	3.0	EPA 8260	02/26/96	TG	
Acetone	12.	µg/L	1.0	5.0	EPA 8260	02/26/96	TG	
Carbon disulfide	<5.	µg/L	1.0	5.0	EPA 8260	02/26/96	TG	
1,1-Dichloroethene	<1.	µg/L	1.0	1.0	EPA 8260	02/26/96	TG	
1,1-Dichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	02/26/96	TG	
Total 1,2-Dichloroethene	<2.	µg/L	1.0	2.0	EPA 8260	02/26/96	TG	
Chloroform	<2.	µg/L	1.0	2.0	EPA 8260	02/26/96	TG	
1,2-Dichloroethane	J1	µg/L	1.0	2.0	EPA 8260	02/26/96	TG	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	02/26/96	TG	
1,1,1-Trichloroethane	<2.	µg/L	1.0	2.0	EPA 8260	02/26/96	TG	
Carbon tetrachloride	<5.	µg/L	1.0	5.0	EPA 8260	02/26/96	TG	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) "J" flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.

03/19/96

LJO/jcbeaw/gbp(dw)/kwh
MB26VLW1

340 County Road No. 5
P.O. Box 720, Westbrook, ME 04098

210 West Road No. 5, Portsmouth, NH 03801
Tel: (603) 431-5777 Fax: (603) 436-3356

Katahdin
ANALYTICAL SERVICES

Lab Number : WM-0337-6
Report Date: 03/19/96
PO No. : 802LSOA

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

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
95QT006	Aqueous	K. RUSCZYK	02/22/96	02/23/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bromodichloromethane	<5.	µg/L	1.0	5.0	EPA 8260	02/26/96	TG	
1,2-Dichloropropane	<2.5	µg/L	1.0	2.5	EPA 8260	02/26/96	TG	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	02/26/96	TG	
Trichloroethene	<2.5	µg/L	1.0	2.5	EPA 8260	02/26/96	TG	
Dibromochloromethane	<5.	µg/L	1.0	5.0	EPA 8260	02/26/96	TG	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5.0	EPA 8260	02/26/96	TG	
Benzene	<2.	µg/L	1.0	2.0	EPA 8260	02/26/96	TG	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5.0	EPA 8260	02/26/96	TG	
Bromoform	<5.	µg/L	1.0	5.0	EPA 8260	02/26/96	TG	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	02/26/96	TG	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	02/26/96	TG	
Tetrachloroethene	<2.	µg/L	1.0	2.0	EPA 8260	02/26/96	TG	
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5.0	EPA 8260	02/26/96	TG	
Toluene	<2.	µg/L	1.0	2.0	EPA 8260	02/26/96	TG	
Chlorobenzene	<5.	µg/L	1.0	5.0	EPA 8260	02/26/96	TG	
Ethylbenzene	<2.	µg/L	1.0	2.0	EPA 8260	02/26/96	TG	

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03/19/96

LJO/jcbeaw/gbp(dw)/kwh
MB26VLW1

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210 West Road No. 5, Portsmouth, NH 03801
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Katahdin
ANALYTICAL SERVICES

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

Lab Number : WM-0337-6
Report Date: 03/19/96
PO No. : 802LSQA

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
95QT006	Aqueous	K. RUSCZYK	02/22/96	02/23/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Styrene	<2.	µg/L	1.0	2.0	EPA 8260	02/26/96	TG	
Total Xylenes	<2.	µg/L	1.0	2.0	EPA 8260	02/26/96	TG	
Dibromofluoromethane (Surr.)	104.	%	1.0		EPA 8260	02/26/96	TG	
Toluene-d8 (Surr.)	97.	%	1.0		EPA 8260	02/26/96	TG	
p-Bromofluorobenzene (Surr.)	104.	%	1.0		EPA 8260	02/26/96	TG	
1,2-Dichlorobenzene	<2.	µg/L	1.0	2.0	EPA 8260	02/26/96	TG	
1,3-Dichlorobenzene	<2.	µg/L	1.0	2.0	EPA 8260	02/26/96	TG	
1,4-Dichlorobenzene	<2.	µg/L	1.0	2.0	EPA 8260	02/26/96	TG	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

03/19/96

LJO/jcbeaw/gbp(dw)/kwh
MB26VLW1

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Sample Name: 95QT006

Lab Name: Katahdin ASI

SDG No.: 95MW001

Matrix (soil/water): Water

Lab Sample ID: WM0337-6

Sample wt/vol: 5 (g/ml) ml

Lab File ID: I0982.D

Level: (low/med) low

Date Received: 2/23/96

% Moisture: not dec. N/A

Date Analyzed: 2/26/96

GC Column: RTX-502.2 ID: 0.53

Dilution Factor: 1.0

Soil Extract Volume: 0 (ul)

Soil Aliquot Volume: 0 (ul)

Number of TIC's Found: 1

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	000556-67-2	Cyclotetrasiloxane, octamethyl-	21.58	8	J
2.					
3.					
4.					
5.					
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