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Monitoring Event 15 – September 1999
Site 9: Neptune Drive Disposal Site
Naval Air Station, Brunswick, Maine

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

U.S. NAVAL AIR STATION
BRUNSWICK, MAINE

Prepared for

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

Prepared by

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

November 1999
296.0047.7615

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Peter L. Nimmer, P.G.
CTO Manager

11/29/99
Date

Robert S. Pace
Program Manager, Acting

23 Nov 99
Date

November 1999

QUALITY REVIEW STATEMENT

Contract No. N62472-92-D-1296 EA Project No.: 29600.47.7615
Contract Task Order No. 0047
Activity: Naval Air Station, Brunswick, Maine

Description of Report/Deliverable:

Monitoring Event 15 – September 1999, Site 9: Neptune Drive Disposal Site, Naval Air Station, Brunswick, Maine

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

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

Senior Technical Reviewer

James A. Shultz, C.P.G. 24 Nov. '99
Senior Geologist (Date)

CONTENTS

Page

LIST OF FIGURES
LIST OF TABLES

1. PROJECT ACTIVITIES AND MONITORING EVENT RESULTS 1

1.1 Introduction 1
1.2 Measurement of Water Level Elevations 1

1.2.1 Gauging Activities 1
1.2.2 Results 2

1.3 Ground-Water Monitoring, Sampling, and Analysis 2

1.3.1 Sampling Activities 2
1.3.2 Results 3

1.4 Surface Water and Leachate Station Seep Sampling and Analysis 3

1.4.1 Sampling Activities 3
1.4.2 Results 4

1.5 Stream Sediment Sampling and Analysis 4

1.5.1 Sampling Activities 4
1.5.2 Results 4

1.6 Visual Inspection 4
1.7 Quality Assurance/Quality Control 4
1.8 Analytical Data Quality Review 4

REFERENCES

APPENDIX A: FIELD MONITORING AND SAMPLING FORMS
APPENDIX B: ANALYTICAL DATA QUALITY REVIEW
APPENDIX C: ANALYTICAL REPORT DATA TABLES

LIST OF FIGURES

Number	Title
1	Site location map, Site 9 (Neptune Drive Disposal Site), Naval Air Station, Brunswick, Maine.
2	Site plan, Site 9 (Neptune Drive Disposal Site), Naval Air Station, Brunswick, Maine.
3	Interpreted potentiometric surface elevations, 1 June 1999 well gauging data, Site 9 (Neptune Drive Disposal Site), Naval Air Station, Brunswick, Maine.
4	Interpreted potentiometric surface elevations, 2 August 1999 well gauging data, Site 9 (Neptune Drive Disposal Site), Naval Air Station, Brunswick, Maine.
5	Interpreted potentiometric surface elevations, 2 September 1999 well gauging data, Site 9 (Neptune Drive Disposal Site), Naval Air Station, Brunswick, Maine.

LIST OF TABLES

Number	Title
1	Summary of long-term monitoring program at Site 9.
2	Monitoring well gauging summary, Site 9.
3	Monitoring well gauging summary, Navy Exchange Service Station.
4	Summary of water quality indicator parameters measured in ground-water samples collected on 13 and 14 September and 12 October 1999 at Site 9.
5	Summary of volatile organic compound analytical results for ground-water samples collected on 12-13 September and 12 October 1999 at Site 9.
6	Summary of inorganic and semivolatile organic compound analytical results for ground-water samples collected on 14 September 1999 at Site 9.
7	Summary of volatile organic analytical results for ground-water samples collected on 14 September 1999 at the Navy Exchange Service Station.
8	Summary of water quality indicator parameters measured in surface water and leachate seep samples collected on 16 September 1999 at Site 9.
9	Summary of analytical results for surface water samples collected on 16 September 1999 at Site 9.
10	Summary of analytical results for the leachate seep sample collected on 16 September 1999 at Site 9.
11	Summary of analytical results for stream sediment sample collected on 16 September 1999 at Site 9.

1. PROJECT ACTIVITIES AND MONITORING EVENT RESULTS

1.1 INTRODUCTION

Under Contract No. N62472-92-D-1296, Contract Task Order No. 0047, Northern Division, Naval Facilities Engineering Command contracted with EA Engineering, Science, and Technology to perform long-term monitoring at the Neptune Drive Disposal Site (Site 9), Naval Air Station (NAS), Brunswick, Maine. NAS Brunswick is located south of the Androscoggin River between Brunswick and Cooks Corner, Maine (Figure 1). The layout of Site 9 is provided on Figure 2.

At Site 9, the Navy is providing monitoring and maintenance as part of the long-term remedial actions required by the Final Record of Decision for Site 9 (EA 1999a).

Monitoring Event 15 was sampled in accordance with the Final Long-Term Monitoring Plan (EA 1999b). Additionally, one-time sampling was conducted at 3 wells at the Navy Exchange Service Station (MW-NASB-008 through MW-NASB-010) and the results analyzed for volatile organic compounds (VOCs) by U.S. Environmental Protection Agency (EPA) Method 8260B.

This report provides results for the September and October 1999 monitoring event (Monitoring Event 15). Appendix A provides field monitoring and sampling forms. Appendix B provides an analytical data quality review. Appendix C provides analytical report Form I data tables. Temporal trends and other observations based on data collected during bi-annual monitoring (April, September, and October) will be presented in the Annual Report for 1999.

1.2 MEASUREMENT OF WATER LEVEL ELEVATIONS

1.2.1 Gauging Activities

Water level measurements for Monitoring Event 15 were collected on 2 September 1999 at the 16 monitoring wells and 2 stream gauge stations as indicated in Table 1. Although not required by the Long-Term Monitoring Plan, additional water table elevation data were collected from Site 9 wells and stream gauge stations on 1 June and 2 August 1999. These additional water table elevation data were collected to assess seasonal fluctuations in water table elevations, and to assess the potential for significant variations in the direction of ground-water flow between seasons. The locations of site monitoring wells and gauging stations are provided on Figure 2. To collect data related to upgradient ground-water flow patterns, the 9 site monitoring wells at the Navy Exchange Service Station were gauged on 1 June, 2 August, and 2 September 1999. The gauging procedures are detailed in the final report for Monitoring Event 4 (EA 1996).

1.2.2 Results

Water level gauging data recorded on 1 June and 2 August 1999 (bi-monthly data) and 2 September 1999 (Monitoring Event 15 data) are provided in Table 2. Water level gauging data recorded at the Navy Exchange Service Station on 1 June, 2 August, and 2 September 1999 are provided in Table 3. The Field Record of Well Gauging forms completed during the well gauging events are provided in Appendix A.

Figures 3, 4, and 5 provide the interpreted ground-water potentiometric surface elevations and flow directions for Site 9 based on the June, August, and September 1999 gauging data, respectively.

1.3 GROUND-WATER MONITORING, SAMPLING, AND ANALYSIS

1.3.1 Sampling Activities

The ground-water sampling program was completed on 13-14 September and 12 October 1999 in accordance with the general methodologies established in the final report for Monitoring Event 4 (EA 1996). Previously installed dedicated Grundfos Redi-Flo2 stainless steel and Teflon® submersible pumping systems were utilized for sample collection at Site 9. The 3 wells at the Navy Exchange Service Station were sampled with non-dedicated equipment which was decontaminated between sample collection at each well. Ground-water samples were collected from each of the 11 wells at Site 9 and 3 wells at the Navy Exchange Service Station sampled during the September 1999 sampling event and the one well sampled at Site 9 during October 1999 using the low-flow sampling technique. Table 1 provides a summary of the wells sampled during Monitoring Event 15.

Water quality indicator parameters, including pH, conductivity, temperature, dissolved oxygen, and turbidity, were measured during well purging. Although not required, oxidation-reduction potential (Eh) was recorded for informational purposes. Stabilization of water quality indicator parameters was achieved when measurements agreed to within approximately 10 percent on three successive readings, and turbidity was below 10 nephelometric turbidity units (NTUs). Wells were purged at the lowest flow rate obtainable with the submersible pump (i.e., approximately 0.2 L/minute). A total of 11 of 12 Site 9 monitoring wells and the 3 wells at the Navy Exchange Service Station reached equilibrium with respect to water quality indicators prior to sampling. One well (MW-NASB-076) had two parameters (temperature and Eh) which did not stabilize to within 10 percent. Five of the 12 samples reached equilibrium but had turbidity measurements in excess of 10 NTUs (MW-NASB-070, 36 NTUs; MW-NASB-071, 17 NTUs; MW-NASB-079, 59 NTUs; MW-NASB-022, 36 NTUs; and MW-NASB-227, 39 NTUs). Elevated turbidity in samples from monitoring wells MW-NASB-070 and MW-NASB-079 may have had an adverse impact on metals data. Reduced dissolved oxygen concentrations (<2.0 mg/L) were noted in samples from 6 monitoring wells, as low as 0.00 mg/L. Note that water quality indicator parameters at these wells were recorded with a water quality meter which was calibrated daily,

and appeared to be functioning properly. Dissolved oxygen levels of 0.00 mg/L have been previously measured in monitoring wells at Site 9 downgradient of the Navy Exchange Service Station. Water quality parameters are summarized on Table 4 for the ground-water samples. Field records of well gauging, purging, and sampling are provided in Appendix A.

Ten ground-water samples from Site 9 and 3 from the Navy Exchange Service Station collected from monitoring wells were analyzed for Target Compound List VOCs by EPA Method 8260B (Table 1). One well (MW-NASB-077) was analyzed for VOCs by EPA Method 8260B modified for selected ion mass for vinyl chloride. Ground-water samples collected from monitoring wells MW-NASB-069, MW-NASB-070, and MW-NASB-079 were also analyzed for semivolatile organic compounds (EPA Method 8270C) and Target Analyte List elements, including metals by inductively coupled plasma (EPA Method 6010), graphite furnace (EPA Method 7000 Series), and mercury by cold vapor atomic absorption (EPA Method 7470).

1.3.2 Results

Tables 5 through 7 summarize the analytical results for ground-water samples. Appendix C contains the laboratory Form I summary tables for the analyses performed.

1.4 SURFACE WATER AND LEACHATE STATION SEEP SAMPLING AND ANALYSIS

1.4.1 Sampling Activities

The surface water and leachate station seep sampling program was completed on 16 September 1999 in accordance with the Long-Term Monitoring Plan (EA 1999). Water quality indicator parameters for the surface water sample and leachate seep sample are summarized on Table 8.

Notable results of water quality indicator parameter measurements for surface water and the leachate seep sample are described below for informational purposes, although sample data quality is not expected to be adversely impacted:

- Dissolved oxygen concentrations were noticeably lower for the surface water and leachate seep sample collected for Monitoring Event 15 (September 1999) as opposed to those collected during Monitoring Event 14 (April 1999).

- Turbidity measurements were noticeably higher for the surface water and leachate seep sample collected for Monitoring Event 15 (September 1999) as opposed to those collected during Monitoring Event 14 (April 1999).

Both the surface water sample (SW-010) and the leachate station seep sample (LT-901) were collected and analyzed for Target Compound List VOCs by EPA Method 8260B. Table 1 provides a summary of the surface water and leachate station seep sampling program completed during Monitoring Event 15.

1.4.2 Results

Surface water sample results are summarized in Table 9. Leachate seep sample results are summarized in Table 10. Appendix C contains the Form 1 summary table for the analysis performed. The sample locations are shown on Figure 2.

1.5 STREAM SEDIMENT SAMPLING AND ANALYSIS

1.5.1 Sampling Activities

The stream sediment sampling program was completed on 16 September 1999 in accordance with the Final Long-Term Monitoring Plan (EA 1999). The stream sediment sample (SED-010) was collected and analyzed for Target Compound List VOCs by EPA Method 8260B. Table 1 provides a summary of the stream sediment sampling program completed during Monitoring Event 15.

1.5.2 Results

Table 11 summarizes analytical results for the stream sediment sample. Appendix C contains the Form 1 summary table for the analysis performed. The sample location is shown on Figure 2.

1.6 VISUAL INSPECTION

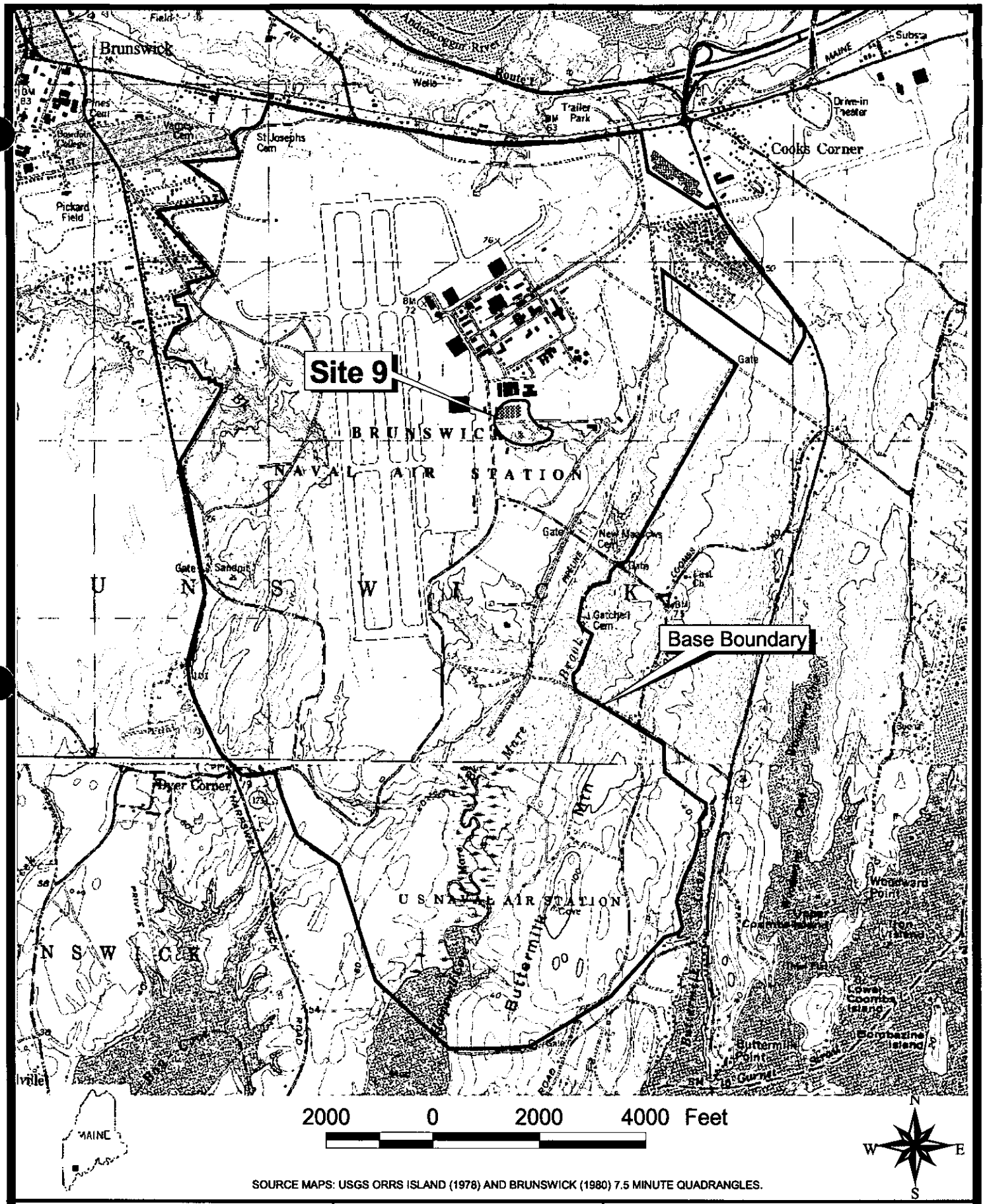
Site inspection activities at Site 9 were completed by an engineer on 16 September 1999 in accordance with the Final Long-Term Monitoring Plan (1999b). There was no evidence of stressed vegetation nor physical evidence of tampering with the site wells. The site monitoring wells were observed to be capped, labeled, locked, and in good condition.

1.7 QUALITY ASSURANCE/QUALITY CONTROL

A rigorous quality assurance/quality control program is required to meet the data quality objectives of the sampling program (ABB-ES 1994). The data obtained during Monitoring Event 15 were determined to be of sufficient quality to be used to evaluate the long-term effectiveness of the remedial action (i.e., monitored natural attenuation).

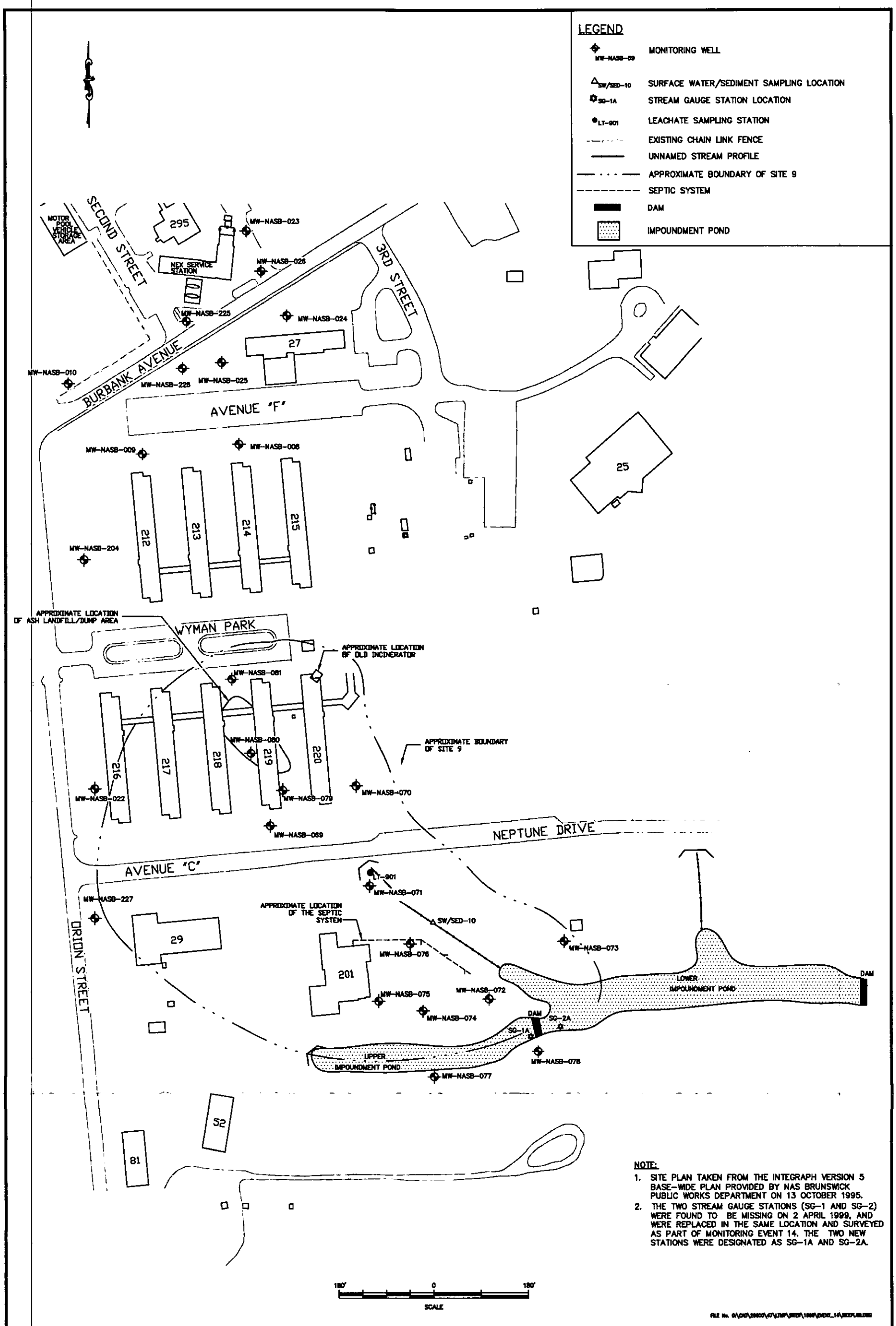
1.8 ANALYTICAL DATA QUALITY REVIEW

A review of laboratory data was performed on selected quality control parameters to evaluate precision, accuracy, completeness, and data quality objective requirements. A complete summary of the analytical data quality review is provided in Appendix B. Method detection limits for solid and aqueous media are included in Appendix B. The data represented in this report were found to meet the specified acceptance criteria. Analytical data are considered to be of sufficient quality to evaluate the long-term effectiveness of the remedial action (i.e., monitored natural attenuation).



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

EA ENGINEERING, SCIENCE, AND TECHNOLOGY	NAVAL AIR STATION BRUNSWICK, MAINE	FIGURE 1 SITE LOCATION MAP, SITE 9 (NEPTUNE DRIVE DISPOSAL SITE)					
PROJECT MGR	DESIGNED BY	DRAWN BY	CHECKED BY	SCALE	DATE	PROJECT No	FILE No
PLN	BT	BT	PLN	AS SHOWN	16 AUGUST 1999	29600.47	I:\NASB_GIS \NAVY.APR



NOTE:

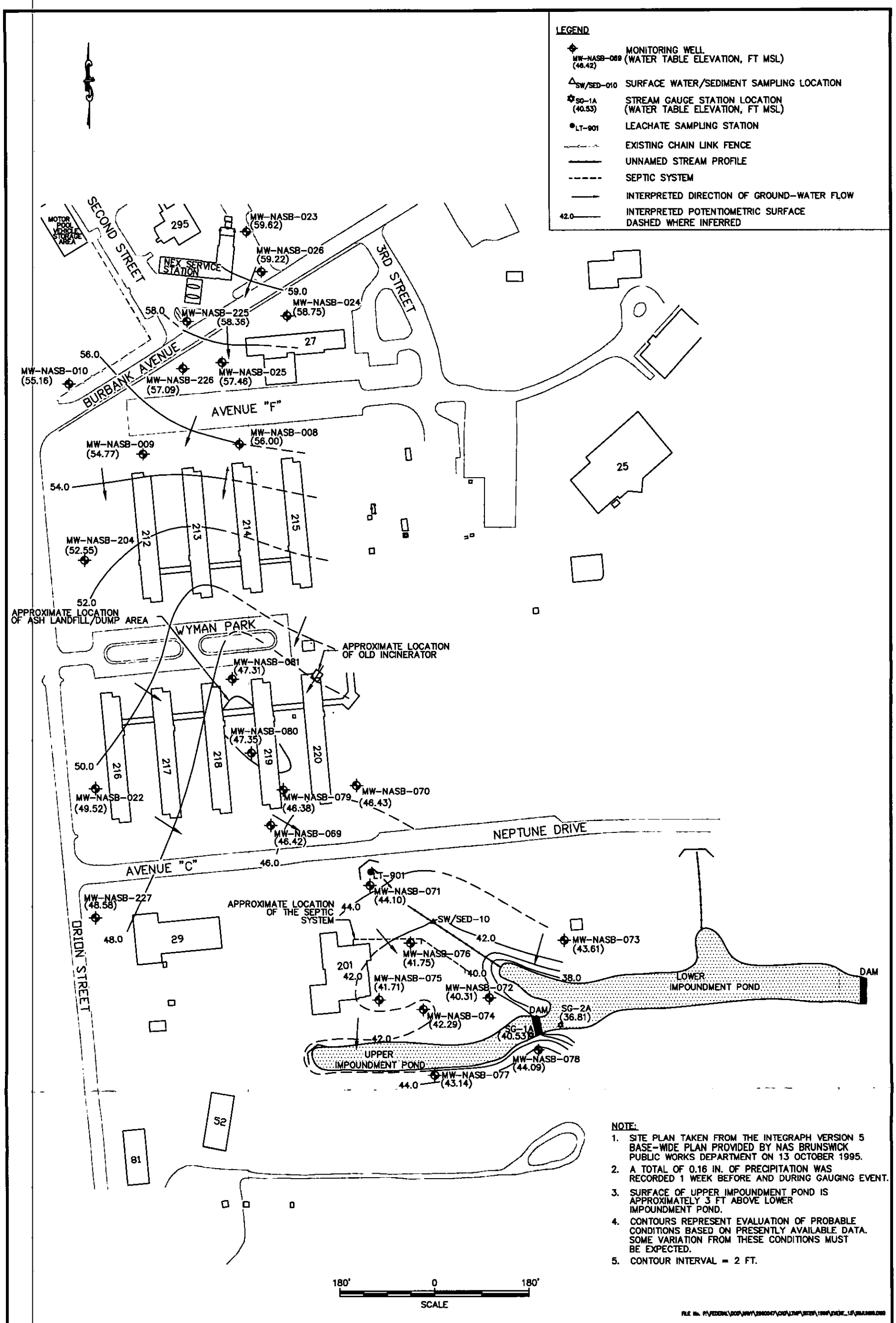
1. SITE PLAN TAKEN FROM THE INTEGRAPH VERSION 5 BASE-WIDE PLAN PROVIDED BY NAS BRUNSWICK PUBLIC WORKS DEPARTMENT ON 13 OCTOBER 1995.
2. THE TWO STREAM GAUGE STATIONS (SG-1 AND SG-2) WERE FOUND TO BE MISSING ON 2 APRIL 1999, AND WERE REPLACED IN THE SAME LOCATION AND SURVEYED AS PART OF MONITORING EVENT 14. THE TWO NEW STATIONS WERE DESIGNATED AS SG-1A AND SG-2A.

EA ENGINEERING, SCIENCE, AND TECHNOLOGY

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

FIGURE 2
SITE PLAN

PROJECT MGR	DESIGNED BY	DRAWN BY	CHECKED BY	SCALE	DATE	PROJECT NO	FILE No.
PLN	SAP	SAP	PLN	1"=180'	31 MARCH 1999	29600.47	SITEPLAN



NOTE:

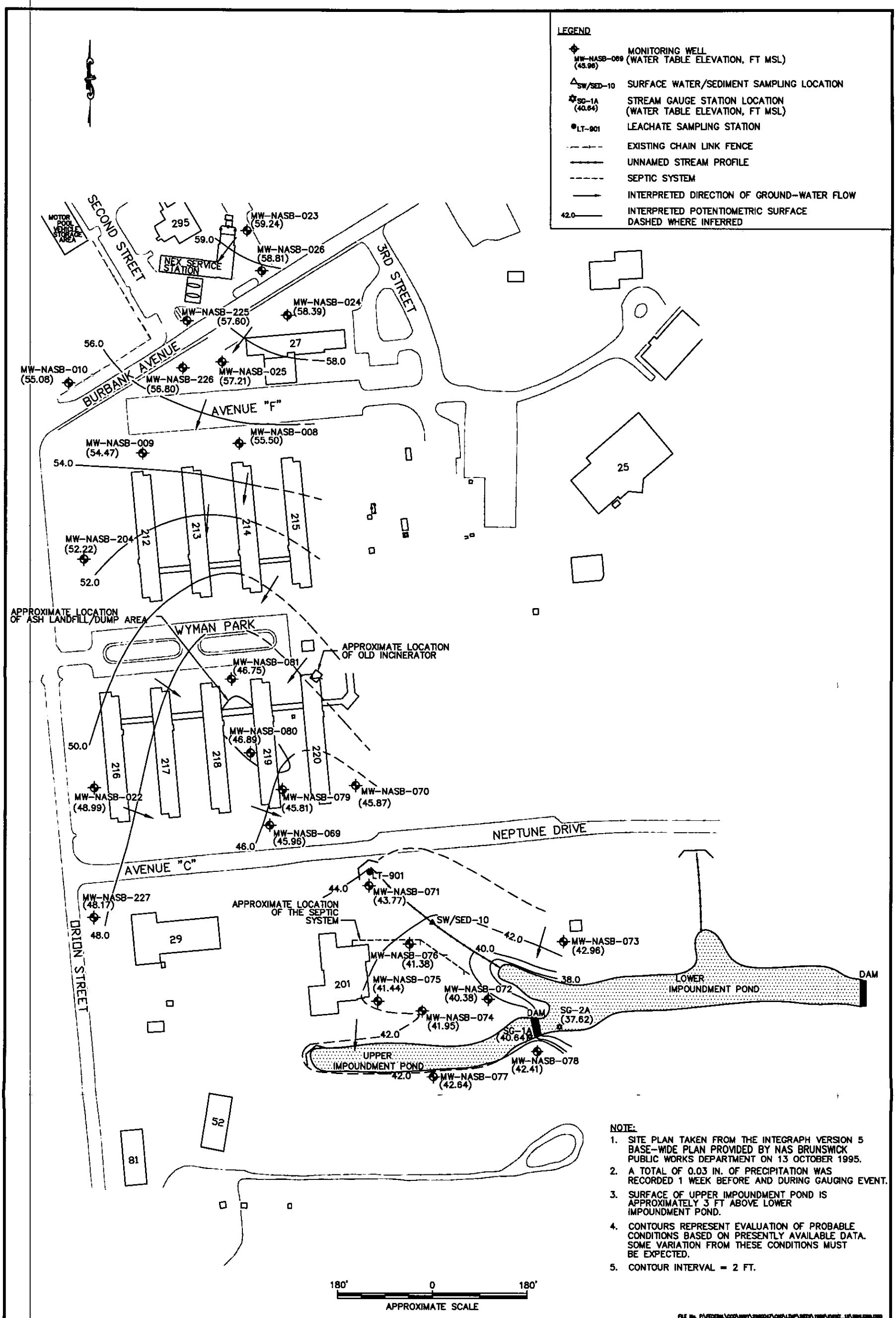
1. SITE PLAN TAKEN FROM THE INTEGRAPH VERSION 5 BASE-WIDE PLAN PROVIDED BY NAS BRUNSWICK PUBLIC WORKS DEPARTMENT ON 13 OCTOBER 1995.
2. A TOTAL OF 0.16 IN. OF PRECIPITATION WAS RECORDED 1 WEEK BEFORE AND DURING GAUGING EVENT.
3. SURFACE OF UPPER IMPOUNDMENT POND IS APPROXIMATELY 3 FT ABOVE LOWER IMPOUNDMENT POND.
4. CONTOURS REPRESENT EVALUATION OF PROBABLE CONDITIONS BASED ON PRESENTLY AVAILABLE DATA. SOME VARIATION FROM THESE CONDITIONS MUST BE EXPECTED.
5. CONTOUR INTERVAL = 2 FT.

EA ENGINEERING, SCIENCE, AND TECHNOLOGY

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

FIGURE 3
INTERPRETED POTENTIOMETRIC SURFACE ELEVATIONS, 1 JUNE 1999 WELL GAUGING DATA

PROJECT MGR	DESIGNED BY	DRAWN BY	CHECKED BY	SCALE	DATE	PROJECT NO	FILE No.
PLN	SAP	SAP	PLN	AS SHOWN	5 OCT 1999	29600.47	S9JUN99



NOTE:

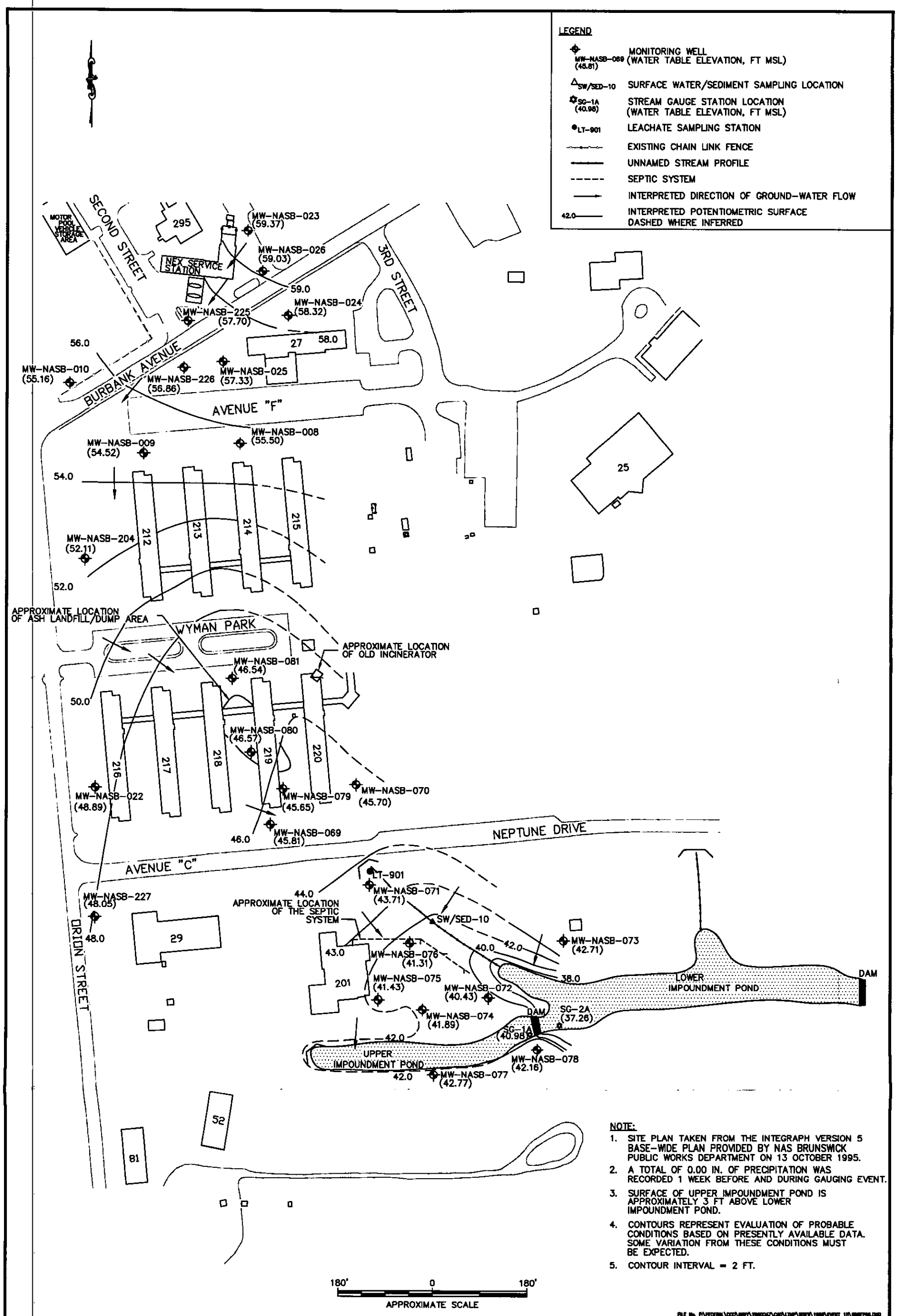
1. SITE PLAN TAKEN FROM THE INTEGRAPH VERSION 5 BASE-WIDE PLAN PROVIDED BY NAS BRUNSWICK PUBLIC WORKS DEPARTMENT ON 13 OCTOBER 1995.
2. A TOTAL OF 0.03 IN. OF PRECIPITATION WAS RECORDED 1 WEEK BEFORE AND DURING GAUGING EVENT.
3. SURFACE OF UPPER IMPOUNDMENT POND IS APPROXIMATELY 3 FT ABOVE LOWER IMPOUNDMENT POND.
4. CONTOURS REPRESENT EVALUATION OF PROBABLE CONDITIONS BASED ON PRESENTLY AVAILABLE DATA. SOME VARIATION FROM THESE CONDITIONS MUST BE EXPECTED.
5. CONTOUR INTERVAL = 2 FT.

EA ENGINEERING, SCIENCE, AND TECHNOLOGY

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

FIGURE 4
INTERPRETED POTENTIOMETRIC SURFACE ELEVATIONS, 2 AUG 1999 WELL GAUGING DATA

PROJECT MGR	DESIGNED BY	DRAWN BY	CHECKED BY	SCALE	DATE	PROJECT NO	FILE No.
PLN	SAP	SAP	PLN	AS SHOWN	5 OCT 1999	29600.47	S9AUG99



NOTE:

1. SITE PLAN TAKEN FROM THE INTEGRAPH VERSION 5 BASE-WIDE PLAN PROVIDED BY NAS BRUNSWICK PUBLIC WORKS DEPARTMENT ON 13 OCTOBER 1995.
2. A TOTAL OF 0.00 IN. OF PRECIPITATION WAS RECORDED 1 WEEK BEFORE AND DURING GAUGING EVENT.
3. SURFACE OF UPPER IMPOUNDMENT POND IS APPROXIMATELY 3 FT ABOVE LOWER IMPOUNDMENT POND.
4. CONTOURS REPRESENT EVALUATION OF PROBABLE CONDITIONS BASED ON PRESENTLY AVAILABLE DATA. SOME VARIATION FROM THESE CONDITIONS MUST BE EXPECTED.
5. CONTOUR INTERVAL = 2 FT.

EA ENGINEERING, SCIENCE, AND TECHNOLOGY

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

FIGURE 5
INTERPRETED POTENTIOMETRIC SURFACE ELEVATIONS, 2 SEP 1999 WELL GAUGING DATA

PROJECT MGR	DESIGNED BY	DRAWN BY	CHECKED BY	SCALE	DATE	PROJECT NO	FILE No.
PLN	SAP	SAP	PLN	AS SHOWN	5 OCT 1999	29600.47	S9SEP99

TABLE 1 SUMMARY OF LONG-TERM MONITORING PROGRAM AT SITE 9

Well Designation	Previous Well Designation	Monitoring Frequency	Sample Parameters			Monitoring Event 15	
			TCL VOC	TAL Elements	Field Parameters[a]	Gauged	Sampled
Monitoring Wells							
MW-NASB-069	MW-901	Bi-Annual	X	X[b]	X	X	X
MW-NASB-070	MW-902	Bi-Annual	NR	X[b]	X	X	X
MW-NASB-071	MW-903	Bi-Annual	X	NR	X	X	X
MW-NASB-072	MW-904	Bi-Annual	X	NR	X	X	X
MW-NASB-073	MW-905	Bi-Annual	NR	NR	NR	X[c]	NR
MW-NASB-074	MW-906	Bi-Annual	X	NR	X	X	X
MW-NASB-075	MW-907	Bi-Annual	X	NR	X	X	X
MW-NASB-076	MW-908	Bi-Annual	X	NR	X	X	X
MW-NASB-077	MW-909	Bi-Annual	X[d]	NR	X	X	X
MW-NASB-078	MW-910	Bi-Annual	NR	NR	NR	X[c]	NR
MW-NASB-079	MW-914	Bi-Annual	NR	X[b]	X	X	X
MW-NASB-080	MW-915	Bi-Annual	X	NR	X	X	X
MW-NASB-081	MW-916	Bi-Annual	NR	NR	NR	X[c]	NR
MW-NASB-022	None	Bi-Annual	X	NR	X	X	X
MW-NASB-204	None	Bi-Annual	NR	NR	NR	X[c]	NR
MW-NASB-227	None	Bi-Annual	X	NR	X	X	X

Sample Type/Location	Monitoring Frequency	Sample Parameters		Monitoring Event 15	
		TCL VOC	Field Parameters[a]	Gauged	Sampled
Leachate Station					
LT-901 (SEEP)	Bi-Annual	X	X	NR	X
Surface Water					
SW-010	Bi-Annual	X	X	NR	X
Sediment					
SED-010	Bi-Annual	X	NR	NR	X
Stream Gauge Water					
SG-1A	Bi-Annual	NR	NR	X[c]	NR
SG-2A	Bi-Annual	NR	NR	X[c]	NR

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

(b) These wells will also be sampled and analyzed for semivolatile organic compounds.

(c) Indicates water level measurement only.

(d) Monitoring well MW-NASB-077 was analyzed using EPA Method 8260B modified for selected ion mass for vinyl chloride. Due to field error, well was sampled on 12 October 1999.

NOTE: TCL = Target Compound List; VOC = Volatile organic compounds; TAL = Target Analyte List; NR = Procedure not required.
One-time sampling was conducted at 3 wells located at the Navy Exchange Service Station (MW-NASB-008 through MW-NASB-010) during Monitoring Event 15 for analysis of VOCs by EPA Method 8260B.

TABLE 2 MONITORING WELL GAUGING SUMMARY, SITE 9

Well Designation	Previous Well Designation	Well Riser Elevation (ft MSL)	Depth to Well Bottom (ft below top of PVC well riser)	Bi-Monthly Gauging Data (1 June 1999)		Bi-Monthly Gauging Data (2 August 1999)		Monitoring Event 15 Gauging Data (2 September 1999)	
				Depth to Water (ft below top of PVC well riser)	Water Table Elevation (ft MSL)	Depth to Water (ft below top of PVC well riser)	Water Table Elevation (ft MSL)	Depth to Water (ft below top of PVC well riser)	Water Table Elevation (ft MSL)
MW-NASB-069	MW-901	57.35	42.42	10.93	46.42	11.39	45.96	11.54	45.81
MW-NASB-070	MW-902	58.26	27.32	11.83	46.43	12.39	45.87	12.56	45.70
MW-NASB-071	MW-903	46.25	21.54	2.15	44.10	2.48	43.77	2.54	43.71
MW-NASB-072	MW-904	49.81	14.63	9.50	40.31	9.43	40.38	9.38	40.43
MW-NASB-073	MW-905	51.71	32.12	8.10	43.61	8.75	42.96	9.00	42.71
MW-NASB-074	MW-906	51.68	27.12	9.39	42.29	9.73	41.95	9.79	41.89
MW-NASB-075	MW-907	54.91	21.22	13.20	41.71	13.47	41.44	13.48	41.43
MW-NASB-076	MW-908	52.79	19.94	11.04	41.75	11.41	41.38	11.48	41.31
MW-NASB-077	MW-909	58.89	37.29	15.75	43.14	16.25	42.64	16.12	42.77
MW-NASB-078	MW-910	53.74	14.93	9.65	44.09	11.33	42.41	11.58	42.16
MW-NASB-079	MW-914	58.15	18.92	11.77	46.38	12.34	45.81	12.50	45.65
MW-NASB-080	MW-915	58.51	19.04	11.16	47.35	11.62	46.89	11.94	46.57
MW-NASB-081	MW-916	58.22	18.85	10.91	47.31	11.47	46.75	11.68	46.54
MW-NASB-022	None	59.52	17.97	10.00	49.52	10.53	48.99	10.63	48.89
MW-NASB-204	None	62.09	17.93	9.54	52.55	9.87	52.22	9.98	52.11
MW-NASB-227	None	58.39	40.60	9.81	48.58	10.22	48.17	10.34	48.05
Stream Gauge Stations[a]									
SG-1A	None	37.43	NA	3.10	40.53	3.21	40.64	3.55	40.98
SG-2A	None	34.41	NA	2.40	36.81	2.85	37.26	2.85	37.26

(a) Measurement from surveyed point on staff gauge.

NOTE: MSL = Mean sea level; PVC = Polyvinyl chloride; NA = Not applicable.

TABLE 3 MONITORING WELL GAUGING SUMMARY
NAVY EXCHANGE SERVICE STATION

Well Designation	Well Riser Elevation (ft MSL)	Depth to Well Bottom (ft below top of PVC well riser)	Bi-Monthly Gauging Data (1 June 1999)		Bi-Monthly Gauging Data (2 August 1999)		Monitoring Event 15 Gauging Data (2 September 1999)	
			Depth to Water (ft below top of PVC well riser)	Water Table Elevation (ft MSL)	Depth to Water (ft below top of PVC well riser)	Water Table Elevation (ft MSL)	Depth to Water (ft below top of PVC well riser)	Water Table Elevation (ft MSL)
MW-NASB-008	59.22	13.15	3.22	56.00	3.72	55.50	3.72	55.50
MW-NASB-009	59.00	11.50	4.23	54.77	4.53	54.47	4.48	54.52
MW-NASB-010	62.03	12.40	6.87	55.16	6.95	55.08	6.87	55.16
MW-NASB-023	67.29	21.90	7.67	59.62	8.05	59.24	7.92	59.37
MW-NASB-024	65.31	13.15	6.56	58.75	6.92	58.39	6.99	58.32
MW-NASB-025	64.34	14.70	6.88	57.46	7.13	57.21	7.01	57.33
MW-NASB-026	66.61	12.55	7.39	59.22	7.80	58.81	7.58	59.03
MW-NASB-225	64.61	14.31	6.25	58.36	7.01	57.60	6.91	57.70
MW-NASB-226	62.22	12.68	5.13	57.09	5.42	56.80	5.36	56.86

NOTE: MSL = Mean sea level; PVC = Polyvinyl chloride.
Monitoring wells listed in this table are not part of Site 9 but are gauged as part of the Site 9 Long-Term Monitoring Program to provide data on flow patterns upgradient of Site 9.

TABLE 4 SUMMARY OF WATER QUALITY INDICATOR PARAMETERS MEASURED IN GROUND-WATER SAMPLES COLLECTED ON 13 AND 14 SEPTEMBER AND 12 OCTOBER 1999 AT SITE 9

Well Designation	Previous Well Designation	pH	Temperature (°C)	Conductivity (μmhos/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	Eh (mV)
Monitoring Wells							
MW-NASB-069	MW-901	5.83	17.1	470	0.00	5	112
MW-NASB-070	MW-902	5.40	17.1	90	0.00	36	216
MW-NASB-071	MW-903	5.74	13.9	270	0.00	17	21
MW-NASB-072	MW-904	6.13	18.4	153	4.27	0	127
MW-NASB-074	MW-906	6.24	15.2	246	3.57	9	64
MW-NASB-075	MW-907	5.90	21.8	270	3.90	1	173
MW-NASB-076	MW-908	6.29	20.0	254	3.42	1	-108
MW-NASB-077	MW-909	5.74	10.0	31	5.06	4	199
MW-NASB-079	MW-914	6.82	23.6	240	0.00	59	-150
MW-NASB-080	MW-915	6.67	24.1	489	3.38	3	-64
MW-NASB-022	None	6.10	21.4	490	0.23	36	158
MW-NASB-227	None	5.83	18.7	270	0.00	39	157
MW-NASB-008	None	6.23	21.1	447	4.94	9	116
MW-NASB-009	None	5.95	20.4	261	4.23	7	124
MW-NASB-010	None	5.73	22.8	271	3.98	3	177

NOTE: NTU = Nephelometric turbidity unit.

TABLE 5 SUMMARY OF VOLATILE ORGANIC COMPOUND ANALYTICAL RESULTS FOR GROUND-WATER SAMPLES COLLECTED ON 12-13 SEPTEMBER AND 12 OCTOBER 1999 AT SITE 9

Compound/Analyte	MW-NASB-069	MW-NASB-069 DUP	MW-NAS B-071	MW-NASB-072	MW-NASB-074	MW-NASB-075	MW-NASB-076	MW-NASB-077	MW-NASB-080	MW-NASB-022	MW-NASB-227	MEG[a]	MCL[b]
VOLATILE ORGANIC COMPOUNDS BY U.S. ENVIRONMENTAL PROTECTION AGENCY METHOD 8260B (μg/L)													
Total 1,2-Dichloroethene	54	67	(<1U)	(<1U)	2	(<1U)	0.6J	(<1U)	0.6J	(<1U)	2	70	70
Vinyl Chloride	**45**	**58**	(<2U)	(<2U)	(<2U)	(<2U)	**2**	(<0.15U)	**4**	(<2U)	(<2U)	0.15	2
1,1-Dichloroethane	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	1	(<1U)	(<1U)	5	---
Trichloroethene	(<1U)	(<1U)	(<1U)	(<1U)	2	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	3	5	5
Chloroform	(<1U)	(<1U)	1	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	---	---
Methylene Chloride	(<1U)	(<1U)	(<1U)	(<1U)	0.6JB	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	48	5
Tetrachloroethane	(<1U)	(<1U)	0.7J	(<1U)	0.7J	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	0.9J	3	5
Toluene	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	1,400	1,000
Ethylbenzene	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	700	700
Total Xylenes	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	600	10,000

(a) MEG (Maximum Exposure Guideline) obtained from State of Maine Department of Human Services Maximum Exposure Guidelines, memorandum dated 23 October 1992. Dashes (---) indicate no MEG applicable.
(b) MCL (Maximum Contaminant Level) obtained from 40 CFR Parts 141 and 142 (U.S. EPA 1998). Dashes (---) indicate no MCL applicable.

NOTE: U = Not detected. Sample quantitation limits are shown as (<____U).
J = Estimated concentration below detection limit.
B = Compound detected in associated method blank.
Only those analytes detected in at least one of the samples, and chemicals of concern listed in the Final Long-Term Monitoring Plan (EA 1999b), are shown on this table.
Concentrations in bold denote exceedance of MEG or MCL.
Monitoring well MW-NASB-077 was analyzed using EPA Method 8260B modified for Selected Ion Mass.
Trip blanks QT-001 and QT-002 results for EPA Method 8260B were non-detect, except for methylene chloride, which was detected at a concentration of 2B μg/L. Equipment rinsate blank QS-001 results for EPA Method 8260B were non-detect, except for methylene chloride, which was detected at a concentration of 1B μg/L. Source water blank QD-001 results for EPA Method 8260B were non-detect.

TABLE 6 SUMMARY OF INORGANIC AND SEMIVOLATILE ORGANIC COMPOUNDS ANALYTICAL RESULTS FOR GROUND-WATER SAMPLES COLLECTED ON 14 SEPTEMBER 1999 AT SITE 9

Analyte	MW-NASB-069	MW-NASB-069 DUP	MW-NASB-070	MW-NASB-079	MEG[a]	MCL[b]
SEMIVOLATILE ORGANIC COMPOUNDS U.S. ENVIRONMENTAL PROTECTION AGENCY 8270C METHOD (μg/L)						
NONE DETECTED						
TARGET ANALYTE ELEMENTS BY U.S. ENVIRONMENTAL PROTECTION AGENCY SERIES 6000/7000 METHODS (μg/L)						
Aluminum	43.4B*	60.2B*	122	341	1,430	50-200[c]
Arsenic	(<2.07U)	(<2.07U)	(<2.07U)	2.9B*	---	50
Barium	10.5	10.5	14.6	239	1,500	2,000
Cadmium	(<1.94U)	(<1.94U)	(<1.94U)	(<1.94U)	5	5
Calcium	8,750	8,780	5,810	25,600	---	---
Chromium	(<4.31U)	(<4.31U)	(<4.31U)	(<4.31U)	100	100
Copper	(<1.62U)	(<1.62U)	6.0B*	(<1.62U)	---	1,300[d]
Iron	189	201	58.7	19,000	---	300[c]
Lead	(<1.09U)	(<1.09U)	(<1.09U)	1.4B*	20	15[d]
Magnesium	3,330	3,350	900	1,650	---	---
Manganese	**705**	**720**	5.08	102	200	50[c]
Mercury	0.03B*	0.03B*	0.04B*	0.04B*	2	2
Potassium	1,550	1,790	666B*	2,640	---	---
Selenium	(<2.57U)	(<2.57U)	3.1B*	(<2.57U)	10	50
Sodium	69,400	69,000	9,510	5,280	---	---
Zinc	4.9B*	4.3B*	5.9B*	6.3B*	---	5,000[c]

(a) MEG (Maximum Exposure Guideline) obtained from the State of Maine Department of Human Services Maximum Exposure Guidelines, memorandum dated 23 October 1992. Dashes (---) indicate no MEG applicable.
(b) MCL (Maximum Containment Level) obtained from 40 CFR Parts 141 and 142 (U.S. EPA 1998). Dashes (---) indicate no MCL applicable.
(c) Secondary MCL, based on taste, odor, or color.
(d) Action level.

NOTE: B* = Analyte concentration is between the Instrument Detection Limit and the Contract Required Detection Limit.
U = Not detected. Sample quantitation limits are shown as (<____U).
Only those analytes detected in at least one of the samples, and chemicals of concern listed in the Final Long-Term Monitoring Plan (EA 1999b), are shown on this table.
Refer to data Quality Review section (Appendix B) for Method Detection Limits for referenced analytical methods.
Concentrations in bold denote exceedance of MEG or MCL.

TABLE 7 SUMMARY OF VOLATILE ORGANIC ANALYTICAL RESULTS FOR GROUND-WATER SAMPLES COLLECTED ON 14 SEPTEMBER 1999 AT THE NAVY EXCHANGE SERVICE STATION

Analyte	MW-NASB-008	MW-NASB-008 DUP	MW-NASB-009	MW-NASB-010	QT-002	QS-001	QD-001	MEG[a]	MCL[b]
VOLATILE ORGANIC COMPOUNDS BY U.S. ENVIRONMENTAL PROTECTION AGENCY 8260B METHOD (μg/L)									
Methylene Chloride	(<1U)	(<1U)	(<1U)	(<1U)	2B	1B	(<1U)	48	5
Vinyl Chloride	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	0.15	2

(a) MEG (Maximum Exposure Guideline) obtained from the State of Maine Department of Human Services Maximum Exposure Guidelines, memorandum dated 23 October 1992. Dashes (---) indicate no MEG applicable.

(b) MCL (Maximum Containment Level) obtained from 40 CFR Parts 141 and 142 (U.S. EPA 1998). Dashes (---) indicate no MCL applicable.

NOTE: U = Not detected. Sample quantitation limits are shown as (<_ __U).
B = Analyte detected in associated method blank.
Although not required by the Long-Term Monitoring Plan, one-time sampling of these 3 monitoring wells was completed during Monitoring Event 15.
Only those analytes detected in at least one of the samples and vinyl chloride are shown on this table.
Refer to data Quality Review section (Appendix B) for Method Detection Limits for referenced analytical methods.

TABLE 8 SUMMARY OF WATER QUALITY INDICATOR PARAMETERS MEASURED IN SURFACE WATER AND LEACHATE SEEP SAMPLES COLLECTED ON 16 SEPTEMBER 1999 AT SITE 9

Sample Station	pH	Temperature (°C)	Conductivity (μmhos/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	Eh (mV)
Surface Water						
SW-010	7.76	16.8	83	7.46	31	13
Leachate Seep						
LT-901	2.08	16.5	241	5.46	478	10

NOTE: NTU = Nephelometric turbidity unit.

TABLE 9 SUMMARY OF ANALYTICAL RESULTS FOR SURFACE WATER SAMPLE COLLECTED ON 16 SEPTEMBER 1999 AT SITE 9

Compound	SW-010	QT-004	QS-004	QD-001
VOLATILE ORGANIC COMPOUNDS BY U.S. ENVIRONMENTAL PROTECTION AGENCY METHOD 8260B (μg/L)				
Methylene Chloride	(<1U)	2B	(<1U)	(<1U)
Vinyl Chloride	(<2U)	(<2U)	(<2U)	(<2U)

NOTE:
SW = Surface water sample locations.
QT = Trip blank. QT-004 was analyzed under a separate sample delivery group shipped on the same day.
QS = Equipment rinsate blank.
QD = Source water blank. QD-001 was analyzed under a separate sample delivery group shipped on 15 September 1999.
U = Not detected. Sample quantitation limits are shown as (<____U).
B = Compound detected in associated method blank.
Only those compounds detected in at least one of the samples and vinyl chloride are shown on this table.

TABLE 10 SUMMARY OF ANALYTICAL RESULTS FOR THE LEACHATE SEEP SAMPLE COLLECTED ON 16 SEPTEMBER 1999 AT SITE 9

Analyte	LT-901	LT-901 DUP	QT-004	QS-004	QD-001
VOLATILE ORGANIC COMPOUNDS BY U.S. ENVIRONMENTAL PROTECTION AGENCY METHOD SW-8260B (μg/L)					
Methylene Chloride	(<1U)	(<1U)	2B	(<1U)	(<1U)
Vinyl Chloride	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)

NOTE: LT = Leachate sample.
QT = Trip blank. QT-004 was analyzed under a separate sample delivery group shipped on the same day.
QS = Equipment rinsate blank.
QD = Source water blank. Samples associated with QD-1 were analyzed under a separate sample delivery group shipped on 15 September 1999.
U = Not detected. Sample quantitation limits are shown as (<___U).
B = Compound detected in associated method blank.
Only those analytes detected in at least one of the samples and vinyl chloride are shown on this table.

TABLE 11 SUMMARY OF ANALYTICAL RESULTS FOR STREAM SEDIMENT SAMPLE COLLECTED ON 16 SEPTEMBER 1999 AT SITE 9

Compound	SED-010	SED-010 Duplicate[a]	QT-004	QS-005	QD-001
VOLATILE ORGANIC COMPOUNDS BY U.S. ENVIRONMENTAL PROTECTION AGENCY METHOD 8260B (μg/L)					
Methylene Chloride	5E	5B	2B	0.6JB	(<1U)
Vinyl Chloride	(<3U)	(<3U)	(<2U)	(<2U)	(<2U)
Acetone	7	9	(<5U)	(<5U)	(<5U)
Total 1,2-Dichloroethene	7	7	(<1U)	(<1U)	(<1U)

(a) Reanalysis due to low surrogate recovery.

NOTE: SED = Stream sediment sample location.
QT = Trip blank. QT-004 was analyzed under a separate sample delivery group shipped on the same day.
QS = Equipment rinsate blank. QS-005 was analyzed under a separate sample delivery group shipped on the same day.
QD = Source water blank. QD-001 was analyzed under a separate sample delivery group shipped on 15 September 1999.
B = Compound detected in associated method blank.
J = Estimated concentration below detection limit.
U = Not detected. Sample quantitation limits are shown as (<____U).
QT-004 was analyzed under a separate sample delivery group shipped on the same day.
Only those compounds detected in at least one of the samples and vinyl chloride are shown on this table.

REFERENCES

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U.S. Environmental Protection Agency (U.S. EPA). 1998. National Primary Drinking Water Standards. Office of Water, Washington, D.C. EPA 610-P-94-001. October.

Appendix A

Field Monitoring and Sampling Forms

A.1 Field Record of Well Gauging Forms
A.2 Field Record of Well Gauging, Purging, and Sampling Forms
A.3 Field Record of Surface Water and Sediment Sampling Forms

Appendix A.1

Field Record of Well Gauging Forms

EA ENGINEERING, SCIENCE, AND TECHNOLOGY, INC.

FIELD RECORD OF WELL GAUGING

Project Name: Bimonthly Gauging June 1999 Site 9	Project No: 29600477299	Date: 6/1/99
Weather/Temperature: overcast, 83°, humid		
EA Personnel: SYC	Equipment: TVA - 1000, Slope indicator	

Well No.	Labeled/ Capped	Well Locked	VOCs Concentration (ppm) Air Ambient	VOCs Concentration (ppm) Well Mouth	Casing/Seal Condition	Protective Casing Elevation (ft MSL)	PVC Casing Elevation (ft MSL)	Depth to Water (ft)	Measured Well Depth (ft)	Water Table Elevation (ft MSL)
MW-NASB-69	Y Y	Y	0	0	Good		57.35	10.93	42.42	46.42
MW-NASB-70	Y Y	Y	0	0	Good		58.26	11.83	27.32	46.43
MW-NASB-71	Y Y	Y	0	0	Good		46.25	2.15	21.54	44.10
MW-NASB-72	Y Y	Y	0	0	Good		49.81	9.50	14.63	40.31
MW-NASB-73	Y Y	Y	0	0	Good		51.71	8.10	32.12	43.61
MW-NASB-74	Y Y	Y	0	0	Good		51.68	9.39	27.12	42.29
MW-NASB-75	Y Y	Y	0	0	Good		54.91	13.20	21.22	41.71
MW-NASB-76	Y Y	Y	0	0	Good		52.79	11.04	19.94	41.75
MW-NASB-77	Y Y	Y	0	0	Good		58.89	15.75	37.29	43.14
MW-NASB-78	Y Y	Y	0	0	Good		53.74	9.65	14.93	44.09
MW-NASB-79	Y Y	Y	0	0	Good		58.15	11.77	18.92	46.38
MW-NASB-80	Y Y	Y	0	0	Good		58.51	11.16	19.04	47.35
MW-NASB-81	Y Y	Y	0	0	Good		58.22	10.91	18.85	47.31
MW-NASB-022	Y Y	Y	0	0	Good		59.52	10.00	17.97	49.52
MW-NASB-204	Y Y	Y	0	0	Good		62.09	9.54	17.43	52.55
MW-NASB-227	Y Y	Y	0	0	Good		58.39	9.81	40.60	48.58
SG-1A							37.43	+3.10	—	40.53

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

SG-2A 34.41 +2.40 — 36.81

Page 1 of 1

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EA ENGINEERING, SCIENCE, AND TECHNOLOGY, INC.

FIELD RECORD OF WELL GAUGING

Project Name/Site Name: Bimonthly Gauging June 1999 NEX	Project No. 29600477299
Weather/Temperature: overcast 83° humid	Date: 6/1/99
EA Personnel: SYC	Equipment: Solinst interface meter, TVA-1000

Well No.	Labeled/ Capped	Well Locked	VOCs Concentration (ppm)		Casing/Seal Condition	Protective Casing Elevation (ft MSL)	PVC Casing Elevation (ft MSL)	Depth to Water (ft)	Depth to LNAPL (ft MSL)	LNAPL Thickness (ft MSL)	Measured Well Depth (ft)	Water Table Elevation[a] (ft MSL)
			Air Ambient	Well Mouth								
MW NASB 23	Y Y	Y	0	0	Good		67.29	7.67	—	—	21.90	59.62
24	Y Y	Y	0	0	Good		65.31	6.56	—	—	13.15	58.75
25	Y Y	Y	0	0	Good		64.34	6.88	—	—	14.70	57.46
26	Y Y	Y	0	0	Good		66.61	7.39	—	—	12.55	59.22
08	Y Y	Y	0	0	Good		59.22	3.22	—	—	13.15	56.00
09	Y Y	Y	0	0	Good		59.00	4.23	—	—	11.50	54.77
10	Y Y	Y	0	0	Good		62.03	6.87	—	—	12.40	55.16
225	Y Y	Y	0	0	Good		64.61	6.25	—	—	14.31	58.36
226	Y Y	Y	0	0	Good		62.22	5.13	—	—	12.68	57.09

(a) Based on an assumed specific gravity of 0.___ for LNAPL.

NOTE: LNAPL = Light, non-aqueous phase liquid; MSL = Mean sea level; PVC = Polyvinyl chloride; VOC = Volatile organic compounds.

EA ENGINEERING, SCIENCE, AND TECHNOLOGY, INC.

FIELD RECORD OF WELL GAUGING

Project Name: Bimonthly Gauging August 1999 Site 9	Project No: 29600.47.7299	Date: 8-2-99
Weather/Temperature: Sunny, 80°, humid		
EA Personnel: SC	Equipment: Slope indicator, TVA-1000	

Well No.	Labeled/ Capped	Well Locked	VOCs Concentration (ppm) Air Ambient	VOCs Concentration (ppm) Well Mouth	Casing/Seal Condition	Protective Casing Elevation (ft MSL)	PVC Casing Elevation (ft MSL)	Depth to Water (ft)	Measured Well Depth (ft)	Water Table Elevation (ft MSL)
MW-NASB-69	Y	Y	0	0	Good		57.35	11.39	42.42	45.96
MW-NASB-70	Y	Y	0	0	Good		58.26	12.39	27.32	45.87
MW-NASB-71	Y	Y	0	0	Good		46.25	2.48	21.54	43.77
MW-NASB-72	Y	Y	0	0	Good		49.81	9.43	14.63	40.38
MW-NASB-73	Y	Y	0	0	Good		51.71	8.75	32.12	42.96
MW-NASB-74	Y	Y	0	0	Good		51.68	9.73	27.12	41.95
MW-NASB-75	Y	Y	0	0	Good		54.91	13.47	21.22	41.44
MW-NASB-76	Y	Y	0	0	Good		52.79	11.41	19.94	41.38
MW-NASB-77	Y	Y	0	0	Good		58.89	16.25	37.29	42.64
MW-NASB-78	Y	Y	0	0	Good		53.74	11.33	14.93	42.41
MW-NASB-79	Y	Y	0	0	Good		58.15	12.34	18.92	45.81
MW-NASB-80	Y	Y	0	0	Good		58.51	11.62	19.04	46.89
MW-NASB-81	Y	Y	0	0	Good		58.22	11.47	18.85	46.75
MW-NASB-22	Y	Y	0	0	Good		59.52	10.53	17.97	48.99
MW-NASB-204	Y	Y	0	0	Good		62.09	9.87	17.93	52.22
MW-NASB-227	Y	Y	0	0	Good		58.39	10.22	40.60	48.17
SG-1A	—	—	—	—	Good		37.43	+3.21	—	40.64
SG-2A	—	—	—	—	Good		34.41	+2.85	—	37.26

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

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EA ENGINEERING, SCIENCE, AND TECHNOLOGY, INC.

FIELD RECORD OF WELL GAUGING

Project Name: Bimonthly Gauging August 1999 NEX	Project No: 29600.47.7299	Date: 8-2-99
Weather/Temperature: Sunny, 80, humid		
EA Personnel: SC	Equipment: TVA-1000, interface probe	

Well No.	Labeled/ Capped	Well Locked	VOCs Concentration (ppm)		Casing/Seal Condition	Protective Casing Elevation (ft MSL)	PVC Casing Elevation (ft MSL)	Depth to Water (ft)	Measured Well Depth (ft)	Water Table Elevation (ft MSL)
			Air Ambient	Well Mouth						
MWNASB 23	YY	Y	0	0	Good		67.29	8.05	21.90	59.24
MWNASB 24	YY	Y	0	0	Good		65.31	6.92	13.15	58.39
MWNASB25	YY	Y	0	0	Good		64.34	7.13	14.70	57.21
MWNASB26	YY	Y	0	0	Good		66.61	7.80	12.55	58.81
MWNASB08	YY	Y	0	0	Good		59.22	3.72	13.15	55.50
MWNASB09	YY	Y	0	0	Good		59.00	4.53	11.50	54.47
MWNASB10	YY	Y	0	0	Good		62.03	6.95	12.40	55.08
MWNASB225	YY	Y	0	0	Good		64.61	7.01	14.31	57.60
MWNASB226	YY	Y	0	0	Good		62.22	5.42	12.68	56.80

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

LNAPL not detected in any well

EA ENGINEERING, SCIENCE, AND TECHNOLOGY, INC.

FIELD RECORD OF WELL GAUGING

Project Name: Monitoring Event 15 (September 1999) Site 9		Project No: 29600477515	Date: 9/2/99
Weather/Temperature: Sunny 80°			
EA Personnel: SC, BA		Equipment: TVA-1000 Slope indicator	

Well No.	Labeled/ Capped	Well Locked	VOCs Concentration (ppm) Air Ambient	VOCs Concentration (ppm) Well Mouth	Casing/Seal Condition	Protective Casing Elevation (ft MSL)	PVC Casing Elevation (ft MSL)	Depth to Water (ft)	Measured Well Depth (ft)	Water Table Elevation (ft MSL)
MWNASB069	Y Y	Y	0	0	Good		57.35	11.54	42.42	45.81
MWNASB070	Y Y	Y	0	0	Good		58.26	12.56	27.32	45.70
MWNASB071	Y Y	Y	0	0	Good		46.25	2.54	21.54	43.71
MWNASB072	Y Y	Y	0	0	Good		49.81	9.38	14.63	40.43
MWNASB073	Y Y	Y	0	0	Good		51.71	9.00	32.12	42.71
MWNASB074	Y Y	Y	0	0	Good		51.68	9.79	27.12	41.89
MWNASB075	Y Y	Y	0	0	Good		54.91	13.48	21.22	41.43
MWNASB076	Y Y	Y	0	0	Good		52.79	11.48	19.94	41.31
MWNASB077	Y Y	Y	0	0	Good		58.89	16.12	37.29	42.77
MWNASB078	Y Y	Y	0	0	Good		53.74	11.58	14.93	42.16
MWNASB079	Y Y	Y	0	0	Good		58.15	12.50	18.92	45.65
MWNASB080	Y Y	Y	0	0	Good		58.51	11.94	19.04	46.57
MWNASB081	Y Y	Y	0	0	Good		58.22	11.68	18.85	46.54
MWNASB22	Y Y	Y	0	0	Good		59.52	10.63	17.97	48.89
MWNASB204	Y Y	Y	0	0	Good		62.09	9.98	17.93	52.11
MWNASB227	Y Y	Y	0	0	Good		58.39	10.34	40.60	48.05
SG 1A							37.43	+3.55	—	40.98

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

SG 2A 34.41 +2.85 — 37.26

f:\wp\29600\47\LTMP\gauge3.frm

EA ENGINEERING, SCIENCE, AND TECHNOLOGY, INC.

FIELD RECORD OF WELL GAUGING

Project Name: Event 15 Gauging (September 1999) NSY	Project No: 29600477515	Date: 9/2/99
Weather/Temperature: 80, Sunny		
EA Personnel: SC, BA	Equipment: Interface probe TVA-1000	

Well No.	Labeled/ Capped	Well Locked	VOCs Concentration (ppm)		Casing/Seal Condition	Protective Casing Elevation (ft MSL)	PVC Casing Elevation (ft MSL)	Depth to Water (ft)	Measured Well Depth (ft)	Water Table Elevation (ft MSL)
			Air Ambient	Well Mouth						
MW NASB23	Y Y	Y	0	0	Good		67.29	7.92	21.90	59.37
MW NASB24	Y Y	Y	0	0	Good		65.31	6.99	13.15	58.32
MW NASB25	Y Y	Y	0	0	Good		64.34	7.01	14.70	57.33
MW NASB26	Y Y	Y	0	0	Good		66.61	7.58	12.55	59.03
MW NASB08	Y Y	Y	0	0	Good		59.22	3.72	13.15	55.50
MW NASB09	Y Y	Y	0	0	Good		59.00	4.48	11.50	54.52
MW NASB10	Y Y	Y	0	0	Good		62.03	6.87	12.40	55.16
MW NASB25	Y Y	Y	0	0	Good		64.61	6.91	14.31	57.70
MW NASB26	Y Y	Y	0	0	Good		62.22	5.36	12.68	56.86

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

Appendix A.2

Field Record of Well Gauging, Purging, and Sampling Forms

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: NASB Site 9
WELL I.D.: mw169
WELL CONDITION: Good

PROJECT NUMBER: 29600.47
WELL LOCK STATUS: Locked
WEATHER: Sunny ≈75

GAUGE DATE: 9/14/99
SOUNDING METHOD: Slope Indicator
STICK UP/DOWN (ft): 2.45

GAUGE TIME: 0846
MEASUREMENT REF: TOC
WELL DIAMETER (in.): 2in

PURGE DATE: 9/14/99
PURGE METHOD: Low Flow
AMBIENT AIR VOCs (ppm) Start: Ø End: Ø

PURGE TIME: 0855
FIELD PERSONNEL: CS/JN
WELL MOUTH VOCs (ppm): Start: Ø End: Ø

WELL VOLUME

A. WELL DEPTH (ft): ~~31.5~~ 42.42
B. DEPTH TO WATER (ft): 11.21
C. LIQUID DEPTH (ft) (A-B): 31.21

D. WELL VOLUME/FT (L): 0.605
E. WELL VOLUME (L) (C*D): 18.9
F. THREE WELL VOLUMES (L) (E*3): 56.7

Parameter	Beginning	1	2	3	4	5
Time (min)	0900	0905	0910	0915	0920	
Depth to Water (ft)	11.21	11.25	11.21	11.21	11.21	
Purge Rate (L/min)	.2	.2	.2	.2	.2	
Volume Purged (L)	1.0	2.0	3.0	4.0	5.0	
pH	6.10	5.92	5.86	5.88	5.83	
Temperature (°C)	15.3	16.2	16.7	17.0	17.1	
Conductivity (μmhos/cm)	0.49	0.48	0.48	0.47	0.47	
Dissolved Oxygen (mg/L)	0.33	0.00	0.00	0.00	0.00	
Turbidity (NTU)	16	10	6	4	5	
Eh (mv)	123	113	117	115	112	

TOTAL QUANTITY OF WATER REMOVED (L): 5.0

SAMPLERS: CS/JN
SAMPLING TIME (START/END): 0923-0940

SAMPLING DATE: 9/14/99
DECONTAMINATION FLUIDS USED: DI

SAMPLE TYPE: Grab
SAMPLE PRESERVATIVES: HCL, HNO_3

SAMPLE BOTTLE IDs: BN1559mw169 MS/MSD + BN1559mwXD1

SAMPLE PARAMETERS: VOC, SVOC, TAL metals

COMMENTS AND OBSERVATIONS:

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: NASB - Site 9
PROJECT NUMBER: 29600.47
WELL I.D.: MW70
WELL LOCK STATUS: locked
WELL CONDITION: Good
WEATHER: Cloudy 70

GAUGE DATE: 9/14/99
GAUGE TIME: 1524
SOUNDING METHOD: Slope Indicator
MEASUREMENT REF: TOC
STICK UP/DOWN (ft):
WELL DIAMETER (in.): 2IN

PURGE DATE: 9/14/99
PURGE TIME: 1526
PURGE METHOD: Low Flow
FIELD PERSONNEL: RS/JN
AMBIENT AIR VOCs (ppm) Start: Ø End: Ø
WELL MOUTH VOCs (ppm): Start: Ø End: Ø

WELL VOLUME

A. WELL DEPTH (ft): 12.46 RS
B. DEPTH TO WATER (ft): 27.3
C. LIQUID DEPTH (ft) (A-B): 14.84
D. WELL VOLUME/FT (L): 0.605
E. WELL VOLUME (L) (C*D): 9
F. THREE WELL VOLUMES (L) (E*3): 27

Parameter	Beginning	1	2	3	4	5
Time (min)	1531	1536	1541	1546	1551	1556
Depth to Water (ft)	12.46	12.47	12.48	12.48	12.48	12.48
Purge Rate (L/min)	.3	.3	.3	.3	.3	.3
Volume Purged (L)	1.5	3.0	4.5	6.0	7.5	9.0
pH	5.63	5.31	5.36	5.39	5.38	5.41
Temperature (°C)	15.5	16.3	17.3	17.4	17.0	16.9
Conductivity (μmhos/cm)	0.11	0.11	0.10	0.10	0.09	0.09
Dissolved Oxygen (mg/L)	0.70	0.19	0.28	0.30	0.35	0.00
Turbidity (NTU)	47	39	37	29	35	36
Eh (mv)	213	225	223	216	219	216

TOTAL QUANTITY OF WATER REMOVED (L): 10.5

SAMPLERS: RS/JN
SAMPLING TIME (START/END): 1604 – 1610
SAMPLING DATE: 9/14/99
DECONTAMINATION FLUIDS USED: DI
SAMPLE TYPE: Grab
SAMPLE PRESERVATIVES: HNO_3
SAMPLE BOTTLE IDs: BN159MW70
SAMPLE PARAMETERS: SVOC, TAL metals

COMMENTS AND OBSERVATIONS:

EA Engineering, Science, and Technology

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

Site Name: NASB Site 9	Project No.: 2960.47	Date: 9/14/99
Well ID: MW70	Field Personnel: CSDN	

Parameter	6	7	8	9	10	11
Time (min.)	1601					
Depth to Water (ft)	12.48					
Purge Rate (L/min)	.3					
Volume Purged (L)	10.5					
pH	5.40					
Temperature (°C)	17.1					
Conductivity (μmhos/cm)	0.09					
Dissolved Oxygen (mg/L)	0.00					
Turbidity (NTU)	36					
Eh (mv)	216					

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

COMMENTS AND OBSERVATIONS _____

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: NASB- Site 9
WELL I.D.: mw71
WELL CONDITION: Good

PROJECT NUMBER: 29600.47
WELL LOCK STATUS: Locked
WEATHER: Sunny ±75

GAUGE DATE: 9/14/99
SOUNDING METHOD: Slope Indicator
STICK UP/DOWN (ft): 2.80

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

PURGE DATE: 9/14/99
PURGE METHOD: Low Flow
AMBIENT AIR VOCs (ppm) Start: Ø End: Ø

PURGE TIME: 1334
FIELD PERSONNEL: KS/JN
WELL MOUTH VOCs (ppm): Start: Ø End: Ø

WELL VOLUME

A. WELL DEPTH (ft): 21.54
B. DEPTH TO WATER (ft): 2.31
C. LIQUID DEPTH (ft) (A-B): 19.23

D. WELL VOLUME/FT (L): 0.605
E. WELL VOLUME (L) (C*D): 11.6
F. THREE WELL VOLUMES (L) (E*3): 34.8

Parameter	Beginning	1	2	3	4	5
Time (min)	1339	1344	1349	1354	1359	1404
Depth to Water (ft)	2.31	2.70	3.21	3.17	3.10	3.07
Purge Rate (L/min)	1.2	1.2	1.2	1.2	1.2	1.2
Volume Purged (L)	6.0	12.0	18.0	24.0	30.0	36.0
pH	6.47	6.14	6.00	5.87	5.79	5.78
Temperature (°C)	14.3	13.8	13.8	13.8	13.9	13.9
Conductivity (μmhos/cm)	0.35	0.28	0.28	0.27	0.27	0.27
Dissolved Oxygen (mg/L)	4.15	0.00	0.00	0.00	0.00	0.00
Turbidity (NTU)	79	42	44	*22	18	17
Eh (mv)	-28	-5	3	18	20	20

TOTAL QUANTITY OF WATER REMOVED (L): 48

SAMPLERS: KS/JN
SAMPLING TIME (START/END): 1416-1420
SAMPLING DATE: 9/14/99
DECONTAMINATION FLUIDS USED: DI
SAMPLE TYPE: Grab
SAMPLE PRESERVATIVES: HCl
SAMPLE BOTTLE IDs: BN159mw71
SAMPLE PARAMETERS: VOC

COMMENTS AND OBSERVATIONS: Can not turn pump any lower
* Drain Flow Cup

EA Engineering, Science, and Technology

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

Site Name: NASB- Site 9	Project No. 29600.47	Date: 9/14/99	
Well ID: MW-71	Field Personnel: CBJN		

Parameter	6	7	8	9	10	11
Time (min.)	1409	1414				
Depth to Water (ft)	3.12	3.12				
Purge Rate (L/min)	1.2	1.2				
Volume Purged (L)	42.0	48.0				
pH	5.74	5.74				
Temperature (°C)	13.8	13.9				
Conductivity (μmhos/cm)	0.27	0.27				
Dissolved Oxygen (mg/L)	0.00	0.00				
Turbidity (NTU)	17	17				
Eh (mv)	21	21				

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

COMMENTS AND OBSERVATIONS _____

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: Site 9
WELL I.D.: MW-NASB-72
WELL CONDITION: Good

PROJECT NUMBER: 29600 47 7515
WELL LOCK STATUS: Good
WEATHER: fog, warm, humid

GAUGE DATE: 9/13/99
SOUNDING METHOD: Slope indicator
STICK UP/DOWN (ft): 2.25

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

PURGE DATE: 9/13/99
PURGE METHOD: Low flow
AMBIENT AIR VOCs (ppm) Start: Ø End: Ø

PURGE TIME: 0930
FIELD PERSONNEL:
WELL MOUTH VOCs (ppm): Start: Ø End: Ø

WELL VOLUME

A. WELL DEPTH (ft): 14.63
B. DEPTH TO WATER (ft): 8.85
C. LIQUID DEPTH (ft) (A-B): 5.78

D. WELL VOLUME/FT (L): 0.605
E. WELL VOLUME (L) (C*D): 3.5
F. THREE WELL VOLUMES (L) (E*3): 10.5

Parameter	Beginning	1	2	3	4	5
Time (min)	0935	0940	0945	0950	0955	1000
Depth to Water (ft)	8.94	8.94	8.94	8.94	8.94	8.94
Purge Rate (L/min)	.2	.2	.2	.2	.2	.2
Volume Purged (L)	2.0	2.0	3.0	4.0	5.0	6.0
pH	4.65	5.65	5.86	5.96	6.05	6.08
Temperature (°C)	14.00	15.24	17.05	17.95	18.16	18.22
Conductivity (μmhos/cm)	67	133	163	146	143	146
Dissolved Oxygen (mg/L)	3.69	3.63	3.59	3.79	3.94	3.97
Turbidity (NTU)	10	3	0	0	0	0
Eh (mv)	184	173	161	149	145	137

TOTAL QUANTITY OF WATER REMOVED (L): 9

SAMPLERS: BB/BA
SAMPLING TIME (START/END): 1015
SAMPLING DATE: 9/13/99
DECONTAMINATION FLUIDS USED: DI
SAMPLE TYPE: Grab
SAMPLE PRESERVATIVES: HCL.
SAMPLE BOTTLE IDs: BN-15-S9-MW72
SAMPLE PARAMETERS: VOC

COMMENTS AND OBSERVATIONS:

EA Engineering, Science, and Technology

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

Site Name: Site 9	Project No.: 29600.47	Date: 9/13/99
Well ID: MW-NASB-72	Field Personnel: BB / BA	

Parameter	6	7	8	9	10	11
Time (min.)	1005	1008	1011			
Depth to Water (ft)	8.94	8.94	8.94			
Purge Rate (L/min)	.2	.2	.2			
Volume Purged (L)	7	8	9			
pH	6.11	6.13	6.13			
Temperature (°C)	18.34	18.36	18.40			
Conductivity (μmhos/cm)	150	153	153			
Dissolved Oxygen (mg/L)	4.13	4.22	4.27			
Turbidity (NTU)	0	0	0			
Eh (mv)	131	128	127			

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

COMMENTS AND OBSERVATIONS _____

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: Site 9
WELL I.D.: MW-NASB-74
WELL CONDITION: good

PROJECT NUMBER: 29600.47 7515
WELL LOCK STATUS: good
WEATHER: clear, sun.

GAUGE DATE: 9/13/99
SOUNDING METHOD: slope indicator
STICK UP/DOWN (ft): 1.9

GAUGE TIME: 1035
MEASUREMENT REF: TOC
WELL DIAMETER (in.): 2"

PURGE DATE: 9/13/99
PURGE METHOD: Low Flow
AMBIENT AIR VOCs (ppm) Start: Ø End: Ø

PURGE TIME: 1030
FIELD PERSONNEL: BB/BA
WELL MOUTH VOCs (ppm): Start: Ø End: Ø

WELL VOLUME

A. WELL DEPTH (ft): 27.12
B. DEPTH TO WATER (ft): 9.26
C. LIQUID DEPTH (ft) (A-B): 17.86

D. WELL VOLUME/FT (L): 0.605
E. WELL VOLUME (L) (C*D): 10.8
F. THREE WELL VOLUMES (L) (E*3): 32.4

Parameter	Beginning	1	2	3	4	5
Time (min)	1040*	1045*	1050	1055	1100	1105
Depth to Water (ft)	9.48	9.55	9.60	9.60	9.60	9.60
Purge Rate (L/min)	.2	.2	.2	.2	.2	.2
Volume Purged (L)	2.0	3.0	4.0	5.0	6.0	7.0
pH	3.44	4.81	5.74	6.04	6.15	6.20
Temperature (°C)	13.77	14.25	14.47	14.97	15.07	15.09
Conductivity (μmhos/cm)	232	246	247	250	246	248
Dissolved Oxygen (mg/L)	3.93	3.95	3.82	3.77	3.68	3.61
Turbidity (NTU)	380	462	185	58	18	9
Eh (mv)	92	71	68	64	66	66

TOTAL QUANTITY OF WATER REMOVED (L): 10

SAMPLERS: BB/BA
SAMPLING TIME (START/END): 1117
SAMPLING DATE: 9/13/99
DECONTAMINATION FLUIDS USED: DI
SAMPLE TYPE: GRAB
SAMPLE PRESERVATIVES: HCL
SAMPLE BOTTLE IDs: BN15S9MW74
SAMPLE PARAMETERS: VOC

COMMENTS AND OBSERVATIONS: *water orange on start purge ~~till clear~~ 19 min (10 min) flush cell

EA Engineering, Science, and Technology

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

Site Name: Site 9	Project No.: 29600.47	Date: 9/13/99
Well ID: MW-NASB-74	Field Personnel: BB, BH	

Parameter	6	7	8	9	10	11
Time (min.)	1108	1111	1114			
Depth to Water (ft)	9.60	9.60	9.60			
Purge Rate (L/min)	.2	.2	.2			
Volume Purged (L)	8	9	10			
pH	6.22	6.23	6.24			
Temperature (°C)	15.10	15.13	15.16			
Conductivity (μmhos/cm)	246	245	246			
Dissolved Oxygen (mg/L)	3.59	3.60	3.57			
Turbidity (NTU)	8	9	9			
Eh (mv)	66	65	64			

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

COMMENTS AND OBSERVATIONS

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: Site 9
WELL I.D.: MW-NASB-075
WELL CONDITION: Good

PROJECT NUMBER: 29600.477515
WELL LOCK STATUS: Good
WEATHER: Clear, Sun, humid

GAUGE DATE: 9/13/99
SOUNDING METHOD: slope indicator
STICK UP/DOWN (ft): 2.00

GAUGE TIME: 1255
MEASUREMENT REF: TOC
WELL DIAMETER (in.): 2"

PURGE DATE: 3/13/99
PURGE METHOD: Low flow
AMBIENT AIR VOCs (ppm) Start: Ø End: Ø

PURGE TIME: 1300
FIELD PERSONNEL: SK, BA
WELL MOUTH VOCs (ppm): Start: Ø End: Ø

WELL VOLUME

A. WELL DEPTH (ft): 21.22
B. DEPTH TO WATER (ft): 12.88
C. LIQUID DEPTH (ft) (A-B): 8.34

D. WELL VOLUME/FT (L): 0.605
E. WELL VOLUME (L) (C*D): 5
F. THREE WELL VOLUMES (L) (E*3): 15

Parameter	Beginning	1	2	3	4	5
Time (min)	1303	1308	1313	1318	1323	1328
Depth to Water (ft)	12.96	12.97	12.98	12.98	12.96	12.96
Purge Rate (L/min)	.2	.2	.2	.2	.2	.2
Volume Purged (L)	.6	1.6	2.6	3.6	4.6	5.6
pH	5.35	5.83	1.57	5.58	5.01	5.92
Temperature (°C)	15.97	16.70	19.84	20.55	21.17	21.45
Conductivity (μmhos/cm)	236	241	250	258	254	258
Dissolved Oxygen (mg/L)	5.46	4.61	3.85	4.27	3.77	4.23
Turbidity (NTU)	7	5	~~1.6~~ 2	~~1.3~~ 1	1.0	1.0
Eh (mv)	185	178	196 sk	181 sk	177	172

TOTAL QUANTITY OF WATER REMOVED (L): 10.0 L

SAMPLERS: BA, SK
SAMPLING TIME (START/END): 1345
SAMPLING DATE: 9/13/99
DECONTAMINATION FLUIDS USED: DI
SAMPLE TYPE: GRAB
SAMPLE PRESERVATIVES: HCL
SAMPLE BOTTLE IDs: BN15 S7MW075
SAMPLE PARAMETERS: VOCs

COMMENTS AND OBSERVATIONS:

EA Engineering, Science, and Technology

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

Site Name: Site 9	Project No.: 29600477575	Date: 9/13/99
Well ID: MW-NASB-075	Field Personnel: SK, BA	

Parameter	6	7	8	9	10	11
Time (min.)	1333	1336	1339	1342		
Depth to Water (ft)	12.96	12.96	12.96	12.96		
Purge Rate (L/min)	.2	.2	.2	.2		
Volume Purged (L)	6.6	7.6	8.6	9.6		
pH	5.99	2.91	5.82	5.90		
Temperature (°C)	21.50	21.64	21.76	21.82		
Conductivity (μmhos/cm)	261		255	270		
Dissolved Oxygen (mg/L)	41.7	2.	3.87	3.90		
Turbidity (NTU)	1	1	1	1		
Eh (mv)	170	183	174	173		

SK → NOTE

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

COMMENTS AND OBSERVATIONS Reading #7 YSI turned off + waited for it to stabilize

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: Site 9
WELL I.D.: MW-NASB-76
WELL CONDITION: good

PROJECT NUMBER: 29600477575
WELL LOCK STATUS: locked
WEATHER: sunny, warm

GAUGE DATE: 9/13/99
SOUNDING METHOD: slope indicator
STICK UP/DOWN (ft):

GAUGE TIME: 13
MEASUREMENT REF: TOC
WELL DIAMETER (in.): 2"

PURGE DATE: 9/13/99
PURGE METHOD: low flow
AMBIENT AIR VOCs (ppm) Start: 0 End: 0

PURGE TIME: 1402
FIELD PERSONNEL: SK, BA
WELL MOUTH VOCs (ppm): Start: 0 End: 0

WELL VOLUME

A. WELL DEPTH (ft): 19.44
B. DEPTH TO WATER (ft): 11.00
C. LIQUID DEPTH (ft) (A-B): 8.44

D. WELL VOLUME/FT (L): 0.6605
E. WELL VOLUME (L) (C*D): 5.4
F. THREE WELL VOLUMES (L) (E*3): 16.2

Parameter	Beginning	1	2	3	4	5
Time (min)	1404	1409	1413	1418	1423	1428
Depth to Water (ft)	11	11.11	11.07	11.07	11.0	11.07
Purge Rate (L/min)	.2	.2	.2	.2	.2	.2
Volume Purged (L)	2.0	3.0	4.0	5.0	6.0	7.0
pH	6.08	6.23	6.24	6.29	5.96	6.30
Temperature (°C)	17.50	18.70	20.96	21.90	22.69	21.42
Conductivity (μmhos/cm)	224	230	237	242	240	259
Dissolved Oxygen (mg/L)	4.04	3.97	3.94	3.88	3.76	3.75
Turbidity (NTU)	3	2	1	1	1	1
Eh (mv)	-44	-48	-56	-55	-55	-72

TOTAL QUANTITY OF WATER REMOVED (L): 14

SAMPLERS: SK, BA
SAMPLING TIME (START/END): ~~9/13/99~~ 1455
SAMPLING DATE: 9/13/99
DECONTAMINATION FLUIDS USED: DI
SAMPLE TYPE: GRAB
SAMPLE PRESERVATIVES: HCL
SAMPLE BOTTLE IDs: BN1539MW76
SAMPLE PARAMETERS: VOCs

COMMENTS AND OBSERVATIONS:

EA Engineering, Science, and Technology

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

Site Name: Site 09	Project No.: 29600473575	Date: 9-13-99
Well ID: MW-NASB-96	Field Personnel: SK, BA	

Parameter	6	7	8	9	10	11
Time (min.)	1433	1438	1441	1444	1447	1450
Depth to Water (ft)	11.07	11.02	11.05	11.05	11.06	11.14
Purge Rate (L/min)	.2	.2	.2	.2	.2	.2
Volume Purged (L)	8.0	9.0	10.0	11.0	12.0	13.0
pH	5.92	6.28	6.30	5.20	6.14	6.26
Temperature (°C)	20.70	21.20	21.56	22.86	23.51	20.80
Conductivity (μmhos/cm)	247	249	257	266	271	258
Dissolved Oxygen (mg/L)	3.58	3.58	3.55	4.90	3.59	3.52
Turbidity (NTU)	1	1	1	1	1	1
Eh (mv)	-79	-80	-80	-79	-93	-105

Parameter	12	13	14	15	16	17
Time (min)	1453					
Depth to Water (ft)	11.14					
Purge Rate (L/min)	.2					
Volume Purged (L)	14.0					
pH	6.09					
Temperature (°C)	19.99					
Conductivity (μmhos/cm)	254					
Dissolved Oxygen (mg/L)	3.42					
Turbidity (NTU)	1					
Eh (mv)	-108					

COMMENTS AND OBSERVATIONS

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

Site Name:	Site 9	Project Number:	2960047
Well ID:	MW-NASB-077	Well Lock Status:	locked
Well Condition:	good	Weather:	Sunny, 60

Gauge Date:	10/12/99	Gauge Time:	853
Sounding Method:	Slope indicator	Measurement Ref:	TOC
Stick Up/Down (ft):	3.04	Well Diameter (in.):	2

Purge Date:	10/12/99	Purge Time:	855
Purge Method:	Low Flow	Field Personnel:	SC
Ambient Air VOCs (ppm):	Start: 0 End: 0	Well Mouth VOCs (ppm):	Start: 0 End: 0

WELL VOLUME

A. Well Depth (ft):	27.32	D. Well Volume/ft (L):	0.605
B. Depth to Water (ft):	15.61	E. Well Volume (L) (C*D):	7.1
C. Liquid Depth (ft) (A-B)	11.71	F. Three Well Volumes (L)	21.3

Parameter	Beginning	1	2	3	4	5
Time (min.)	900	904	908	912	916	920
Depth to Water (ft)	15.70	15.71	15.71	15.71	15.72	15.72
Purge Rate (gpm)	0.2	0.2	0.2	0.2	0.2	0.2
Volume Purged (L)	1	1.8	2.6	3.4	4.2	5.0
PH	5.84	5.77	5.93	5.91	5.89	5.82
Temperature (°C)	9.38	10.13	11.17	11.60	11.78	10.63
Conductivity (μmhos/cm)	44	36	39	38	37	35
Dissolved Oxygen (mg/L)	6.09	5.26	4.76	4.82	4.85	5.03
Turbidity (NTU)	6	8	16	16	21	13
eH (mV)	199	199	193	191	191	194

Total Quantity of Water Removed (L):	9		
Samplers:	SC	Sampling Time (Start/End):	940
Sampling Date:	10-12-99	Decontamination Fluids Used:	none
Sample Type:	Grab	Sample Preservatives:	HCL
Sample Bottle IDs:	BN-15-S9-MW077		
Sample Parameters:	VOC 8260 and 8260B modified SIM for Vinylchloride		

EA Engineering, Science, and Technology

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

Site Name: Site 9		Project No.: 2960047	Date: 10-12-99
Well ID: MW NASB-077		Field Personnel: SC	

Parameter	6	7	8	9	10	11
Time (min.)	924	928	932	936		
Depth to Water (ft)	15.72	15.73	15.73	15.73		
Purge Rate (L/min)	0.2	0.2	0.2	0.2		
Volume Purged (L)	5.8	6.6	7.4	8.2		
pH	5.76	5.73	5.74	5.74		
Temperature (°C)	10.07	10.01	10.01	10.00		
Conductivity (μmhos/cm)	32	31	31	31		
Dissolved Oxygen (mg/L)	5.08	5.10	5.07	5.06		
Turbidity (NTU)	14	8	5	4		
Eh (mv)	196	198	200	199		

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

COMMENTS AND OBSERVATIONS Containerized water and ran through treatment plant.

ph Check OK

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: NASB-Site 9
WELL I.D.: MW79
WELL CONDITION: Good

PROJECT NUMBER: 29600.47
WELL LOCK STATUS: Locked
WEATHER: Sunny ± 70

GAUGE DATE: 9/14/99
SOUNDING METHOD: Slope Indicator
STICK UP/DOWN (ft):

GAUGE TIME: 0952
MEASUREMENT REF: TOC
WELL DIAMETER (in.): 2in

PURGE DATE: 9/14/99
PURGE METHOD: Low Flow
AMBIENT AIR VOCs (ppm) Start: Ø End: Ø

PURGE TIME: 0955
FIELD PERSONNEL: CS/JN
WELL MOUTH VOCs (ppm): Start: Ø End: Ø

WELL VOLUME

A. WELL DEPTH (ft): 19.00
B. DEPTH TO WATER (ft): 12.03
C. LIQUID DEPTH (ft) (A-B): 7.03

D. WELL VOLUME/FT (L): 0.605
E. WELL VOLUME (L) (C*D): 4.2
F. THREE WELL VOLUMES (L) (E*3): 12.6

Parameter	Beginning	1	2	3	4	5
Time (min)	10.00	1005	1010	1015	1020	1025
Depth to Water (ft)	12.03	12.23	12.14	12.10	12.08	12.06
Purge Rate (L/min)	.2	.2	.2	.2	.2	.2
Volume Purged (L)	1.0	2.0	3.0	4.0	5.0	6.0
pH	7.01	7.09	7.00	7.03	7.01	7.02
Temperature (°C)	19.3	20.8	21.2	21.6	21.8	21.9
Conductivity (μmhos/cm)	0.28	0.25	0.23	0.24	0.24	0.24
Dissolved Oxygen (mg/L)	0.00	0.00	0.00	0.10	0.00	0.00
Turbidity (NTU)	390	98	*25	28	35	36
Eh (mv)	-160	-152	-120	-136	-146	-148

TOTAL QUANTITY OF WATER REMOVED (L): 15.00

SAMPLERS: CS/JN
SAMPLING TIME (START/END): 1112 - 1120
SAMPLING DATE: 9/14/99
DECONTAMINATION FLUIDS USED: DI
SAMPLE TYPE: Grab
SAMPLE PRESERVATIVES: HNO_3
SAMPLE BOTTLE IDs: BN1559MW79
SAMPLE PARAMETERS: SVOC, TAl metals
COMMENTS AND OBSERVATIONS: * Drain Flow Cup

EA Engineering, Science, and Technology

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

Site Name: NAS Brunswick - Site	Project No.: 29600.17	Date: 9/14/99
Well ID: MW79	Field Personnel: KSJN	

Parameter	6 **	7	8	9	10	11
Time (min.)	1030	1045	1100	1105	1110	
Depth to Water (ft)	12.16	12.16	12.08	12.08	12.08	
Purge Rate (L/min)	0.2	0.2	0.2	0.2	0.2	
Volume Purged (L)	7.0	10.0	13.00	14.00	15.00	
pH	6.98	6.77	6.87	6.85	6.82	
Temperature (°C)	22.0	22.6	23.0	23.5	23.6	
Conductivity (μmhos/cm)	0.23	0.25	0.25	0.25	0.24	
Dissolved Oxygen (mg/L)	0.00	0.47	0.00	0.00	0.00	
Turbidity (NTU)	49	100	56	58	59	
Eh (mv)	-145	-121	-159	-159	-150	

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

COMMENTS AND OBSERVATIONS ** pump clogged w/ silt have to turn up - Blew out silt causing parameter flux.

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: Site 9
WELL I.D.: MW-NASB-2C
WELL CONDITION: Good

PROJECT NUMBER: 29600477515
WELL LOCK STATUS: Good
WEATHER: warm, clear.

GAUGE DATE: 9/14/99
SOUNDING METHOD: Slope Indicator
STICK UP/DOWN (ft): up 2.05

GAUGE TIME: 1520
MEASUREMENT REF: TOC
WELL DIAMETER (in.): 2"

PURGE DATE: 9-14-99
PURGE METHOD: low flow
AMBIENT AIR VOCs (ppm) Start: 0 End: 0

PURGE TIME: 1520
FIELD PERSONNEL: SK, BH
WELL MOUTH VOCs (ppm): Start: 0 End: 0

WELL VOLUME

A. WELL DEPTH (ft): 19.04
B. DEPTH TO WATER (ft): 11.50
C. LIQUID DEPTH (ft) (A-B): 7.54

D. WELL VOLUME/FT (L): 0.605
E. WELL VOLUME (L) (C*D): 4.6
F. THREE WELL VOLUMES (L) (E*3): 13.8

Parameter	Beginning	1	2	3	4	5
Time (min)	1526	1531	1536	1544	1547	1552
Depth to Water (ft)	11.50	11.48	11.46	11.48	11.48	11.45
Purge Rate (L/min)	.2	.2	.2	.2	.2	.2
Volume Purged (L)	1.2	2.2	3.2	4.2	5.2	6.2
pH	2.54	5.08	5.66	6.55	6.61	6.11
Temperature (°C)	18.25	19.05	21.68	22.84	23.13	23.35
Conductivity (μmhos/cm)	457	453	471	482	480	487
Dissolved Oxygen (mg/L)	3.04	3.34	3.10	3.43	3.44	2.73
Turbidity (NTU)	92	75	28	11	10	8
Eh (mv)	1	-5	-41	-53	-58	-53

TOTAL QUANTITY OF WATER REMOVED (L): 9

SAMPLERS: SK
SAMPLING TIME (START/END): 1605
SAMPLING DATE: 9/14/99
DECONTAMINATION FLUIDS USED: DI
SAMPLE TYPE: GEAB
SAMPLE PRESERVATIVES: HCL
SAMPLE BOTTLE IDs: BN-15-59 MW8
SAMPLE PARAMETERS: VOAs (VOC 8260)
COMMENTS AND OBSERVATIONS:

EA Engineering, Science, and Technology

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

Site Name: Site 9	Project No.: 29600477515	Date: 9-14-99
Well ID: MW-NAS13-80	Field Personnel: SK, BH	

Parameter	6	7	8	9	10	11
Time (min.)	1555	1558	1601			
Depth to Water (ft)	11.45	11.48	11.45			
Purge Rate (L/min)	.2	.2	.2			
Volume Purged (L)	7.2	8.2	9.2			
pH	6.57	6.64	6.67			
Temperature (°C)	23.70	24.07	24.14			
Conductivity (μmhos/cm)	484	485	489			
Dissolved Oxygen (mg/L)	3.31	3.35	3.38			
Turbidity (NTU)	6	4	3			
Eh (mv)	-61	-63	-64			

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

COMMENTS AND OBSERVATIONS _____

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: NASB-Site 9
WELL I.D.: MW22
WELL CONDITION: Good

PROJECT NUMBER: 29600.47
WELL LOCK STATUS: Locked
WEATHER: Sunny ≠ 75

GAUGE DATE: 9/13/99
SOUNDING METHOD: Slope Indicator
STICK UP/DOWN (ft):

GAUGE TIME: 1425
MEASUREMENT REF: TOC
WELL DIAMETER (in.): 2in

PURGE DATE: 9/13/99
PURGE METHOD: Low Flow
AMBIENT AIR VOCs (ppm) Start: Ø End: Ø

PURGE TIME: 1432
FIELD PERSONNEL: RS/JN
WELL MOUTH VOCs (ppm): Start: Ø End: Ø

WELL VOLUME

A. WELL DEPTH (ft): 18.97
B. DEPTH TO WATER (ft): 10.59
C. LIQUID DEPTH (ft) (A-B): 7.38

D. WELL VOLUME/FT (L): 0.605
E. WELL VOLUME (L) (C*D): 4.5
F. THREE WELL VOLUMES (L) (E*3): 13.5

Parameter	Beginning	1	2	3	4	5
Time (min)	1437	1442	1447	1452	1457	
Depth to Water (ft)	10.59	10.48	10.46	10.46	10.45	
Purge Rate (L/min)	.2	.2	.2	.2	.2	
Volume Purged (L)	1.0	2.0	3.0	4.0	5.0	
pH	6.13	6.11	6.08	6.08	6.10	
Temperature (°C)	18.7	19.6	21.0	21.3	21.4	
Conductivity (μmhos/cm)	0.39	0.46	0.48	0.48	0.49	
Dissolved Oxygen (mg/L)	1.46	0.57	0.42	0.29	0.23	
Turbidity (NTU)	80	31	39	36	36	
Eh (mv)	133	150	156	158	158	

TOTAL QUANTITY OF WATER REMOVED (L): 5.0

SAMPLERS: RS/JN
SAMPLING TIME (START/END): 1458-1505
SAMPLING DATE: 9/13/99
DECONTAMINATION FLUIDS USED: DI
SAMPLE TYPE: Grab
SAMPLE PRESERVATIVES: HCl
SAMPLE BOTTLE IDs: BN1559mw22
SAMPLE PARAMETERS: VOC

COMMENTS AND OBSERVATIONS:

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: SITE 9 / MW-227
WELL I.D.: MW-227
WELL CONDITION: GOOD
PROJECT NUMBER: 2960047 7515
WELL LOCK STATUS: LOCKED
WEATHER: SUNNY CLEAR 70'S

GAUGE DATE: 9-13-99
SOUNDING METHOD: SLOPE INDICATOR
STICK UP/DOWN (ft):
GAUGE TIME: 1250
MEASUREMENT REF: TOC
WELL DIAMETER (in.): 2"

PURGE DATE: 9-13-99
PURGE METHOD: LOW FLOW
AMBIENT AIR VOCs (ppm) Start: 0 End: Ø
PURGE TIME: 1300
FIELD PERSONNEL: JBN / B
WELL MOUTH VOCs (ppm): Start: Ø End: Ø

WELL VOLUME

A. WELL DEPTH (ft): 40.60
B. DEPTH TO WATER (ft): 10.05
C. LIQUID DEPTH (ft) (A-B): 30.55
D. WELL VOLUME/FT (L): 0.605
E. WELL VOLUME (L) (C*D): 18.5
F. THREE WELL VOLUMES (L) (E*3): 55.5

Parameter	Beginning	1	2	3	4	5
Time (min)	1305	1310	1315	1320	1325	1330
Depth to Water (ft)	10.11	10.11	10.11	10.11	10.11	10.11
Purge Rate (L/min)	0.2	0.2	0.2	0.2	0.2	0.2
Volume Purged (L)	1	2	3	4	5	6
pH	5.98	5.94	5.91	5.89	5.88	5.83
Temperature (°C)	16.9	17.9	18.4	18.5	18.5	17.8
Conductivity (μmhos/cm)	0.27	0.26	0.26	0.27	0.27	0.26
Dissolved Oxygen (mg/L)	0.0	0.0	0.0	0.0	0.0	0.78
Turbidity (NTU)	430	430	340	240	180	53
Eh (mv)	132	124	118	117	121	168

TOTAL QUANTITY OF WATER REMOVED (L): 9

SAMPLERS: JBN / B
SAMPLING TIME (START/END): 1346
SAMPLING DATE: 9-13-99
DECONTAMINATION FLUIDS USED: NONE
SAMPLE TYPE: GRAB
SAMPLE PRESERVATIVES: HCl
SAMPLE BOTTLE IDs: BN1559MW227
SAMPLE PARAMETERS: VOC (8260)
COMMENTS AND OBSERVATIONS: PURGED FLOW THROUGH CELL 1327

EA Engineering, Science, and Technology

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

Site Name: SITE 9 MW-227	Project No.: 29600475.15	Date: 9.13.99
Well ID: MW-227	Field Personnel: JGN / KMS	

Parameter	6	7	8	9	10	11
Time (min.)	1337	1342	1345			
Depth to Water (ft)	10.11	10.11	10.11			
Purge Rate (L/min)	0.2	0.2	0.2			
Volume Purged (L)	7	8	9			
pH	5.78	5.79	5.83			
Temperature (°C)	18.5	18.6	18.7			
Conductivity (μmhos/cm)	0.27	0.27	0.27			
Dissolved Oxygen (mg/L)	0.0	0.0	0.0			
Turbidity (NTU)	41	40	39			
Eh (mv)	162	159	157			

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

COMMENTS AND OBSERVATIONS _____

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: Site 9
WELL I.D.: MW-NASB-08
WELL CONDITION: Good

PROJECT NUMBER: 2960047.7515
WELL LOCK STATUS: Good
WEATHER: clear, sun shirt hot

GAUGE DATE: 9/14/99
SOUNDING METHOD: slope indicator
STICK UP/DOWN (ft):

GAUGE TIME: 1115
MEASUREMENT REF: TOC
WELL DIAMETER (in.): 2"

PURGE DATE: 9/14/99
PURGE METHOD: Low flow
AMBIENT AIR VOCs (ppm) Start: Ø End: Ø

PURGE TIME: 1118
FIELD PERSONNEL: SK, BA
WELL MOUTH VOCs (ppm): Start: Ø End: Ø

WELL VOLUME

A. WELL DEPTH (ft): 13.15
B. DEPTH TO WATER (ft): 3.15
C. LIQUID DEPTH (ft) (A-B): 10.00

D. WELL VOLUME/FT (L): 0.605
E. WELL VOLUME (L) (C*D): 6.1
F. THREE WELL VOLUMES (L) (E*3): 18.3

Parameter	Beginning	1	2	3	4	5
Time (min)	1128	1125	1130	1133	1136	1139
Depth to Water (ft)	3.20	3.20	3.72	3.73	3.71	3.74
Purge Rate (L/min)	.3 *	.3	.3	.3	.3	.3
Volume Purged (L)	0.6	2.1	3.6	4.2	4.8	5.4
pH	6.16	6.18	6.23	6.23	6.23	6.23
Temperature (°C)	17.59	19.90	20.86	20.99	21.00	21.08
Conductivity (μmhos/cm)	415	436	447	446	446	447
Dissolved Oxygen (mg/L)	5.57	5.02	4.92	4.94	4.94	4.94
Turbidity (NTU)	41	38	12	9	9	9
Eh (mv)	175	148	121	119	118	116

TOTAL QUANTITY OF WATER REMOVED (L): 6

SAMPLERS: SK, BA
SAMPLING TIME (START/END): 1140
SAMPLING DATE: 9/14/99
DECONTAMINATION FLUIDS USED: DI
SAMPLE TYPE: Grab
SAMPLE PRESERVATIVES: HCL
SAMPLE BOTTLE IDs: BN-15-S9-MW008 & BN15-S9-MWX02
SAMPLE PARAMETERS:

COMMENTS AND OBSERVATIONS: *grundfos drawn as far as possible, unable to slow the pump 9501-0038

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: Site 9
WELL I.D.: MW-NASB-009
WELL CONDITION: good

PROJECT NUMBER: 29600477575
WELL LOCK STATUS: Good
WEATHER: Clear, warm

GAUGE DATE: 9-14-99
SOUNDING METHOD: Slope indicator
STICK UP/DOWN (ft): flushmount

GAUGE TIME: 1308
MEASUREMENT REF: TOC
WELL DIAMETER (in.): 2"

PURGE DATE: 9/14/99
PURGE METHOD: Low flow
AMBIENT AIR VOCs (ppm) Start: 0 End: 0

PURGE TIME: 1310
FIELD PERSONNEL: SK, BA
WELL MOUTH VOCs (ppm): Start: 0 End: 0

WELL VOLUME

A. WELL DEPTH (ft): 11.50
B. DEPTH TO WATER (ft): 3.99
C. LIQUID DEPTH (ft) (A-B): 7.51
D. WELL VOLUME/FT (L): 0.605
E. WELL VOLUME (L) (C*D): 4.5
F. THREE WELL VOLUMES (L) (E*3): 13.5

Parameter	Beginning	1	2	3	4	5
Time (min)	1310	1315	1320	1325	1330	1335
Depth to Water (ft)	4.03	4.02	4.03	4.03	4.05	4.05
Purge Rate (L/min)	.2	.2	.2	.2	.2	.2
Volume Purged (L)	~~1~~	1.0	2.0	3.0	4.0	5.0
pH	5.98	6.00	5.98	5.98	5.98	5.97
Temperature (°C)	18.89	20.01	20.17	20.17	20.12	20.26
Conductivity (μmhos/cm)	215	230	240	242	246	254
Dissolved Oxygen (mg/L)	6.85	5.63	7.82	4.67	4.45	4.43
Turbidity (NTU)	41	30	14	14	14	16
Eh (mv)	159	146	134	132	129	127

TOTAL QUANTITY OF WATER REMOVED (L): 10

SAMPLERS: SK, BA
SAMPLING TIME (START/END): 1355
SAMPLING DATE: 9-14-99
DECONTAMINATION FLUIDS USED: DI
SAMPLE TYPE: GRAB
SAMPLE PRESERVATIVES: HCL
SAMPLE BOTTLE IDs:
SAMPLE PARAMETERS: VOAs

COMMENTS AND OBSERVATIONS: pump 9501-6038

EA Engineering, Science, and Technology

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

Site Name: Site 09	Project No.: 29600477595	Date: 9-14-99
Well ID: MW-NASB-009	Field Personnel: SK, BM	

Parameter	6	7	8	9	10	11
Time (min.)	1340	1343	1346	1349	1352	
Depth to Water (ft)	4.04	4.04	4.04	4.04	4.04	
Purge Rate (L/min)	.2	.2	.2	.2	.2	
Volume Purged (L)	6.0	7.0	8.0	9.0	10.0	
pH	5.96	5.96	5.96	5.96	5.95	
Temperature (°C)	19.76	20.34	20.41	20.42	20.42	
Conductivity (μmhos/cm)	252	260	261	261	261	
Dissolved Oxygen (mg/L)	4.34	4.85	4.41	4.25	4.23	
Turbidity (NTU)	9.0	7.0	7	7	7	
Eh (mv)	126.0	126.0	125	125	124	

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

COMMENTS AND OBSERVATIONS

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: Site 9
WELL I.D.: MW-WASB-10
WELL CONDITION: good

PROJECT NUMBER: 29600477515
WELL LOCK STATUS: good
WEATHER: warm, clear

GAUGE DATE: 9-14-99
SOUNDING METHOD: steel indicator
STICK UP/DOWN (ft): flushmount

GAUGE TIME: 1430
MEASUREMENT REF: TOC
WELL DIAMETER (in.): 2"

PURGE DATE: 9-14-99
PURGE METHOD: low flow
AMBIENT AIR VOCs (ppm) Start: 0 End: 0

PURGE TIME: 1430
FIELD PERSONNEL: SK, BA
WELL MOUTH VOCs (ppm): Start: 0 End: 0

WELL VOLUME

A. WELL DEPTH (ft): 12.40
B. DEPTH TO WATER (ft): 7.56
C. LIQUID DEPTH (ft) (A-B): 4.84

D. WELL VOLUME/FT (L): 0.605
E. WELL VOLUME (L) (C*D): 2.9
F. THREE WELL VOLUMES (L) (E*3): 8.7

Parameter	Beginning	1	2	3	4	5
Time (min)	1435	1440	1443	1446	1449	1452
Depth to Water (ft)	7.53	7.54	7.54	7.59	7.61	7.61
Purge Rate (L/min)	.1	.1	.1	.1	.1	.1
Volume Purged (L)	.5	1	1.5	2.0	2.5	3.0
pH	5.39	5.68	5.69	5.70	5.72	5.73
Temperature (°C)	19.65	22.18	22.48	22.53	22.64	22.75
Conductivity (μmhos/cm)	243	257	261	264	269	271
Dissolved Oxygen (mg/L)	4.02	4.09	4.04	4.06	3.99	3.98
Turbidity (NTU)	12	4	3	5	7	3
Eh (mv)	173	174	175	176	176	177

TOTAL QUANTITY OF WATER REMOVED (L): 3

SAMPLERS: SK, BA
SAMPLING TIME (START/END): 1455
SAMPLING DATE: 9/14/99
DECONTAMINATION FLUIDS USED: DI
SAMPLE TYPE: grab
SAMPLE PRESERVATIVES: HCL
SAMPLE BOTTLE IDs: BN-15-S9 MW10
SAMPLE PARAMETERS: VOC 8260

COMMENTS AND OBSERVATIONS: pump 9501-0038

Appendix A.3

Field Record of Surface Water and Sediment Sampling Forms

EA Engineering, Science, and Technology

FIELD RECORD OF SURFACE WATER AND SEDIMENT SAMPLING

Site Name: Site 9			Project Number: 29600477515
Sample Location ID: SW010 / SD010			Date: 9-16-99
Sampling Time:	SW Start: 1225	SED End: 1220	Sample Team Members: BA, SK

SURFACE WATER INFORMATION

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

Water Depth and Sample Location _____ (ft)

Depth of Sample from Top of Water _____ (ft)

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

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

Water Quality Parameters
( ) Temperature 16.84 °C
( ) Conductivity 83 µmhs/cm
( ) ph 7.76 units
( ) Dissolved oxygen 7.46 mg/L
( ) Turibidity 31 NTU
( ) Eh 13 mv

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

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

Sample Location Sketch:
( ) Yes
( ) No

Method Used:
( ) Winkler
( ) Probe

SEDIMENT INFORMATION

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

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

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

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

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

Field QC Data: (✓) Field Duplicate Collected
Duplicate ID BN15595DXD1
( ) MS/MSD

SAMPLES COLLECTED

Check if Required at this Location	Matrix: Surface Water	Matrix: Sediment	Check if Preserved with Acid/Base	Volume Required	Check if Sample Collected	Sample Bottle IDs
✓	✓		HCL	120mL	✓	BN15595W010
✓		✓	—	4oz	✓	BN15595D010
✓		✓				

NOTES/SKETCH

EA Engineering, Science, and Technology

FIELD RECORD OF SURFACE WATER AND SEDIMENT SAMPLING

Site Name: Site 9			Project Number: 29600477515
Sample Location ID: LT901			Date: 9-16-99
Sampling Time: 1235	Start:	End:	Sample Team Members: SK BA

SURFACE WATER INFORMATION

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

Water Depth and Sample Location _____ (ft)

Depth of Sample from Top of Water _____ (ft)

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

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

Water Quality Parameters
( ) Temperature 16.5 °C
( ) Conductivity 241 µmhs/cm
( ) ph 2.08 units
( ) Dissolved oxygen 5.46 mg/L
( ) Turibidity 478 NTU
( ) Eh 10 mv

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

Field QC Data: (✓) Field Duplicate Collected
Duplicate ID BN1S59LTY01
( ) MS/MSD

Sample Location Sketch:
( ) Yes
( ) No

Method Used:
( ) Winkler
( ) Probe

SEDIMENT INFORMATION

Type of Sample Collected:
( ) Discrete
( ) Composite

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

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

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

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

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

SAMPLES COLLECTED

Check if Required at this Location	Matrix: Surface Water	Matrix: Sediment	Check if Preserved with Acid/Base	Volume Required	Check if Sample Collected	Sample Bottle IDs
✓	✓		✓	1 Qal	✓	BN1S59LT901

NOTES/SKETCH

Appendix B

Analytical Data Quality Review

APPENDIX B - CONTENTS

Page

B.1 INTRODUCTION B-1

B.1.1 Field Sampling Program Quality Control B-3
B.1.2 Laboratory Analytical Quality Control Program B-3

B.2 SAMPLE HOLDING TIMES B-3
B.3 PRECISION B-3

B.3.1 Volatile Organic Compounds B-3
B.3.2 Target Analyte List Metals B-4
B.3.3 Semivolatile Organic Compounds B-4

B.4 ACCURACY B-4

B.4.1 Volatile Organic Compounds B-4
B.4.2 Target Analyte List Metals B-4
B.4.3 Semivolatile Organic Compounds B-4

B.5 COMPLETENESS B-5
B.6 FIELD QUALITY CONTROL BLANKS B-5

B.6.1 Laboratory Method Blanks B-6
B.6.2 Trip Blanks B-6
B.6.3 Rinsate Blank B-6

B.7 DUPLICATE FIELD SAMPLES B-8
B.8 METHOD DETECTION LIMITS FOR SEDIMENT AND AQUEOUS SAMPLES B-10

APPENDIX B
ANALYTICAL DATA QUALITY REVIEW

B.1 INTRODUCTION

This project utilized both field and analytical laboratory quality control measures to ensure that the data quality objectives presented in the project-specific Final Quality Assurance Project Plan (QAPP) (EA 1999)[1] were met.

The sampling program consisted of 19 aqueous samples of ground water, surface water, and leachate seep (of which 2 were field duplicates), and 2 sediment samples (of which 1 was a field duplicate) collected from Site 9. The laboratory was provided with 1 sediment and 2 aqueous sample delivery groups (SDG) which included 5 aqueous quality control samples (2 trip blanks, 3 rinsate blanks, and 1 source water blank). Sample duplicates, rinsate blanks, and trip blanks were collected at the frequency required by the QAPP.

Analytical quality control was reviewed for compliance against data quality objectives for precision and accuracy for each sample and analysis type, including field quality control blanks (i.e., trip blanks) and field sample duplication. Analytical precision was based upon the mean relative percent difference (RPD) of the matrix spike/matrix spike duplicates (MS/MSD) for organic analysis and the RPD of the laboratory duplicates for inorganic analysis. Accuracy was based upon the reported spike recoveries for the laboratory control standards (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 LCS recoveries. MS/MSD and SMC recoveries measure the effect of the sample matrix on sample preparation and measurement methodology. During the MS/MSD process, known quantities of target compounds are spiked into the sample matrix for the MS/MSD and recoveries are used to measure potential bias due to matrix effects. SMCs, which are structurally similar to the targeted analytes, are used to evaluate the recovery of the target compounds which are then used as indicators for all of the analytes. The accuracy of the LCS spike recoveries is used in conjunction with the MS/MSD when evaluating organic analyses.

Field completeness was quantified by comparing the number of samples specified in the Final Long-Term Monitoring Plan (EA 1999) to the number of samples actually collected during Monitoring Event 15. Data completeness was quantified by reviewing the number of usable results to the number of results reported.

1. EA Engineering, Science, and Technology. 1999. Final Long-Term Monitoring Plan, Site 9 (Neptune Drive Disposal Site), Naval Air Station, Brunswick. August.

For clarity, the following definitions are given for use throughout Appendix B:

- **Instrument Detection Limit (IDL)**—Defined as the lowest concentration level that can be determined to be statistically different from instrument background noise (instrument blank).

- **Method Detection Limit**—This refers to the minimum concentration of a substance that can be measured and reported with 99 percent confidence that the analyte concentration is greater than zero and is determined from analysis of a sample for a given matrix. The method detection limits for sediment and aqueous media are summarized in Appendix B.1.

- **Contract Required Detection Limit/Contract Required Quantitation Limit (CRDL/CRQL)**— This refers to the minimum level of detection acceptable under the contract Statement of Work in order to ensure regulatory compliance. This terminology is widely accepted in the industry as defined by the U.S. Environmental Protection Agency (EPA) contract laboratory protocols and is a standard list of inorganic analyte concentrations and organic compound concentrations on which laboratory flags and data validation qualifiers are based. These published concentrations are meant to be above the laboratory IDL in order to ensure a level of confidence. The published CRDLs/CRQLs are specific to the Contract Laboratory Program methodology but are often used throughout industry methods. The data user should be aware that stated CRDLs/CRQLs are generic for a method and are affected for each sample by sample size, concentration, percent solids, and dilution factors.

- **Practical Quantitation Limit**—Defined as the lowest level that can be reasonably achieved within specified units of precision and accuracy during routine laboratory operating conditions.

The following table summarizes the findings for the data quality review performed and presented in detail in this appendix:

Data Quality Review		Holding Time	Field Blank Cont.	Precision		Accuracy			Completeness	
				Laboratory	Field	SMC	MS/MSD	LCS	Analytical	Field
Aqueous Matrix	VOC	✔	✔B	✔	✔	✔	✔	✔	100%✔	100%✔
	Metals	✔	✔	✔	✔	NA	✔	✔	100%✔	100%✔
	SVOC	✔	✔	✔	✔	✔	✔	✔	100%✔	100%✔
Sediment Matrix	VOC	✔	✔B	✔	✔	✔	✔	✔	100%✔	100%✔

NOTE:
✔ = The data are usable as reported based on the data quality review of this quality measurement.
✔B = The data have been affected by field blank/laboratory contamination; false-positives may exist.
✔J = The data are usable, however, some analyte concentrations should be considered estimates of the true concentrations.
NA = The quality measurement does not apply to this matrix or analytical methodology.
VOC = Volatile organic compound.

In general, the data collected as part of Monitoring Event 15 were found to meet the standards established in the QAPP contained in the Final Long-Term Monitoring Plan (EA 1999) for data usability.

B.1.1 Field Sampling Program Quality Control

Field sampling quality control was acceptable and conducted according to the Final QAPP (EA 1999). Field duplicate samples were collected for each matrix (i.e., sediment, ground water, and leachate seep) and analyzed for the same parameters as the environmental samples to determine field sampling precision. The potential for cross-contamination of volatile organics during sample storage and shipment was assessed by trip blanks which were shipped with each sample cooler containing aqueous samples. The trip blanks were analyzed for volatile organic compounds (VOCs) by EPA SW-846 Method 8260B. To document the effectiveness of decontamination protocols, rinsate blank samples were collected by running de-ionized water through decontaminated sampling equipment and into the appropriate sample containers, and analyzing for the same parameters as the samples. In addition, a source water blank was analyzed to assess the chemical quality of the water used in the decontamination sequence. The source water blank was also associated with samples collected at Sites 1 and 3 and Eastern Plume under a separate SDG.

B.1.2 Laboratory Analytical Quality Control Program

The precision and accuracy objectives and reporting requirements identified in the Long-Term Monitoring Plan were met. Ground-water, sediment, and leachate seep samples were collected for analysis of Target Compound List VOC by EPA Method 8260B and four ground-water samples (including one duplicate sample) were also analyzed for both Target Analyte List elements by EPA Methods 6010A and 7000 series and Target Compound List semivolatile organic compounds (SVOCs) by EPA Method 8270C.

B.2 SAMPLE HOLDING TIMES

The holding times were met for all method and sample matrixes. Holding times (from date of sample collection to date of sample preparation/analysis) were compared against the maximum holding times identified in the quality control requirements of the referenced analytical methods.

B.3 PRECISION

B.3.1 Volatile Organic Compounds

The analytical precision was determined to be acceptable and the aqueous volatile organic data usable as reported based on the review of laboratory precision. Five VOCs were used to quantify the MS/MSD RPDs. The control limits identified in the QAPP were used to evaluate the data. The MS/MSD analyses were performed on Sample MW-NASB-069. There were no surface water or sediment samples designated for MS/MSD analyses, therefore, surface water and

sediment samples were not evaluated for analytical precision. A leachate seep sample was designated for MS/MSD analysis for Site 9, however, the laboratory did not analyze the sample. Consequently the leachate seep sample for Site 9 was not evaluated for analytical precision. The monitoring well sample MS/MSD RPDs were within the established control limits, therefore, the data are usable as reported.

B.3.2 Target Analyte List Metals

The aqueous laboratory duplicate precision measurements were within the laboratory control limits, therefore, the aqueous metals data are considered usable based on the review of analytical precision. All 23 analytes were used to quantify the laboratory duplicate RPD. There were no control limits identified in the QAPP for aqueous duplicate RPD for Target Analyte List metals, therefore, the laboratory control limits were used. The laboratory replicated the analyses of MW-NASB-069.

B.3.3 Semivolatile Organic Compounds

Eleven SVOCs were used to quantify the MS/MSD RPD. The aqueous control limits identified in the QAPP were used to qualify the MS/MSD RPD. The MS/MSD was performed on MW-NASB-069.

Monitoring well MS/MSD RPDs for Sample MW-NASB-069 SVOC were within the established control limits with the exception of acenaphthene (34 percent), pyrene (38 percent), and 1,2,4-trichlorobenzene (32 percent). The RPDs for acenaphthene, pyrene, and 1,2,4-trichlorobenzene in the sample mentioned above did not indicate significant imprecision, therefore, the data are usable as reported. The analytical precision was determined to be acceptable and the SVOC data are usable as reported.

B.4 ACCURACY

B.4.1 Volatile Organic Compounds

The surface water, leachate seep, sediment, and monitoring well SMC recoveries were within established control limits, therefore, the analytical results are usable as reported. Three SMCs are normally used to measure the ability of the laboratory to purge the target analytes from the environmental samples, however, the laboratory reported an additional SMC. The SMC control limits for the aqueous and sediment samples identified in the QAPP and reported by the laboratory were identical for the first three SMC. The fourth SMC, dibromofluoromethane, was not listed in the QAPP, therefore, laboratory limits were used to evaluate the data.

The sediment SMC recoveries were within the QAPP control limits, with the exception of bromofluorobenzene (63 and 56 percent) for samples SED-010 DUP and the reanalysis of SED-010 DUP; and toluene (55 percent) for the reanalysis of Sample SED-010 DUP. These SMC recoveries were also outside the laboratory control limits. The laboratory appropriately

repeated the analysis results for this sample. The re-analysis results indicated similar results for the SMC. The original analysis results for the above mentioned sample should be considered most usable and, therefore, the data are included in the summary tables. The data user should be aware that the low recoveries of this SMC indicate a possible low analytical bias due to sample matrix, and the sample data should still be considered usable.

Based on the conformance of MS/MSD and accuracy of LCS recoveries, all analytical results are usable as reported. Five VOCs were used to quantify MS/MSD recoveries against laboratory established control limits. The recovery limits reported by the laboratory were the same as those identified in the QAPP. The samples chosen for MS/MSD are identified in Section B.3.1. The monitoring well sample MS/MSD recoveries were within the established control limits, therefore, all data are usable as reported based on the review of MS/MSD accuracy.

Five VOCs were used to quantify the LCS recoveries against laboratory established control limits. Although no LCS recovery limits are stated in the QAPP, all aqueous and sediment LCS recoveries were within laboratory established control limits, confirming purging efficiency.

B.4.2 Target Analyte List Metals

Nineteen Target Analyte List analytes were used to quantify MS recoveries for aqueous samples. Calcium, magnesium, potassium, and sodium are not required as spiking compounds due to the potential for these compounds to be present in the environmental samples at high concentrations.

All of the MS samples were analyzed at the correct frequency, and the accuracy control limits used to evaluate the data were taken from the QAPP.

The laboratory performed an MS on the sample identified in Section B.3.2. The ground-water MS recoveries were within the established control limits, therefore, all ground-water data are usable as reported based on the review of MS accuracy.

All 23 Target Analyte List analytes were used to quantify LCS recoveries against laboratory established control limits. There were no LCS recoveries presented in the QAPP. The aqueous LCS recoveries were compliant. All aqueous data are usable based on the review of the LCS accuracy.

B.4.3 Semivolatile Organic Compounds

All semivolatile data are usable as reported based on the review of analytical accuracy for SMC. Six SMC were used to measure the ability of the laboratory to extract the target compounds from the environmental samples. The aqueous sample SMC recoveries were within the established control limits.

Eleven compounds were used to qualify the MS/MSD recoveries. The control limits stated in the QAPP were used to evaluate the data. The MS/MSD recoveries for sample MW-NASB-069 were within the established control limits. All semivolatile data are usable as reported.

Eleven SVOCs were used to quantify the LCS recoveries against the limits stated in the QAPP. The LCS recoveries were within the control limits, confirming the laboratory's purging efficiency. The data are usable as reported based on the review of LCS accuracy.

B.5 COMPLETENESS

Usable analytical data were available for all analytes/compounds for all field samples, and total analytical completeness is 100 percent.

Seventeen of the planned 17 aqueous field samples were collected, resulting in a field completeness level of 100 percent and 1 of 1 sediment field sample was collected, resulting in a field completeness level of 100 percent.

The field quality control blanks (e.g., trip blanks) were collected at the proper frequency. A total of 2 trip blanks were collected for Site 9. There were 3 rinsate blanks collected (associated with the surface water/seep samples and the sediment samples). In addition, a source water blank was submitted for Site 9 in compliance with the QAPP.

Analytical completeness was quantitated by reviewing the number of acceptable analytical results to the total number of analytical results.

B.6 FIELD QUALITY CONTROL BLANKS

Monitoring well and trip blank samples contained analytical results that are considered false-positives based on both field and method blank contamination. Field quality control rinsate blanks were collected to evaluate the potential for contamination that may have been introduced during the field sampling activities. Trip blanks were collected to assess the potential for cross-contamination of VOC during sample shipment. In both cases, where contamination exists, environmental samples should be reviewed for possible false-positives.

The field quality control blanks collected for this site included 2 trip blanks and 3 equipment rinsate blank and 1 source water blank. The rinsate blank (QS-1) was collected during the monitoring well sampling program. The rinsate blank (QS-4) was collected during the surface water sampling program. The rinsate blank (QS-5) was collected during the sediment sampling program. Rinsate blanks were required for the ground-water samples collected by peristaltic pump. The source water blank (QD-1) associated with this event was collected under a separate SDG associated with Sites 1 and 3 and Eastern Plume.

B.6.1 Laboratory Method Blanks

Method blanks were reviewed and the only VOCs detected in the method blanks were methylene chloride and chloroform.

The positive methylene chloride results for 7 samples (QT-4, MW-NASB-074, QS-1, QT-2, SED-010, SED-010 DUP, and QS-5) should be considered false-positives due to method blank contamination.

Chloroform was not considered false-positive in any of the samples for Site 9 because the results were non-detect values.

B.6.2 Trip Blanks

Trip blanks associated with Site 9 were analyzed for VOCs. The results of the 2 trip blanks are shown in the following table:

Compound	Units	Trip-2	Trip-4
Methylene Chloride	µg/L	2B	2B
NOTE: B = Compound detected in associated method blank.			

The analytical results of the trip blanks indicate that there was no cross-contamination of VOCs during sample shipment. NOTE: See laboratory method blank section (B.6.1) for a statement about the methylene chloride contamination.

B.6.3 Rinsate Blank

The analytical results for the rinsate blanks associated with the surface water (including samples collected at LT-901) and the sediment collected at Site 9, and the associated source water blank, are shown in the following table:

Compound	Units	QS-1	QS-5
Methylene Chloride	µg/L	1B	0.6JB
NOTE: B = Compound detected in associated method blank. J = Estimated concentration below detection limit.			

The analytical results of the equipment rinsate blanks and the source water blank indicate that there was no contamination introduced during the field sampling activities. The source water blank (QD-1) and the surface water rinsate blank (QS-4) were reported free of contamination, therefore, VOC data are usable as reported. NOTE: See laboratory method blank section (B.6.1) for a statement about the methylene chloride contamination.

B.7 DUPLICATE FIELD SAMPLES

All precision requirements were met for the organic results for the duplicate samples (MW-NASB-069, MW-NASB-069 DUP, MW-NASB-008, MW-NASB-008 DUP, SED-010, SED-010 DUP, LT-901, and LT-901 DUP), the sample results are usable as reported. Field duplicate samples are used to evaluate the overall precision for both the field and laboratory and the homogeneity of the sample matrix. Typically, these results have more variability than laboratory precision measurements with the extremes being noted in soil matrices. Based on EPA Region I criteria for evaluating field duplicates, the following guidelines were used to review the field duplicates taken during the sampling event. The overall precision of organic compounds was evaluated as the RPD (non-detects were defined as one-half the reporting limit) and was considered acceptable at an RPD of less than 30 percent for water samples and 50 percent for soil samples. Overall precision for inorganic analytes was evaluated by reviewing the difference of the field duplicate for analytes with concentrations less than 5 times the reporting limit (the difference cannot be greater than ±2 times the reporting limit for water samples or cannot be greater than ±4 times the reporting limit for soil samples), and by the RPD (less than 30 percent for water samples or 50 percent for soil samples) for the analytes greater than 5 times the reporting limit. Non-detects were defined as one-half the reporting limit for difference measurements. The reporting limits used to evaluate the data are based on those presented in the QAPP.

Duplicate field samples were collected during the monitoring well ground-water sampling program, sediment sampling program, and leachate seep sampling program. The sample locations of the field duplicated samples were not identified to the laboratory. The precision measurements for all analytes reported above the CRQL/CRDL are defined in the tables below.

The following table shows the first set of field duplicate ground-water sample results that are associated with SDG S9MW069:

Compound	Units	MW-NASB-069	MW-NASB-069 DUP	RPD%	Difference
Total 1,2-Dichloroethene	µg/L	54	67	25	---
Vinyl Chloride	µg/L	45	58	25	---
Aluminum	µg/L	43.4B*	60.2B*	NA	16.8
Barium	µg/L	10.5	10.5	NA	0
Calcium	µg/L	8,750	8,780	0.9	NR
Iron	µg/L	189	201	NA	12
Magnesium	µg/L	3,330	3,350	NA	20
Manganese	µg/L	705	720	2.1	NR
Mercury	µg/L	0.03B*	0.03B*	NA	0
Potassium	µg/L	1,550	1,790	NA	240
Sodium	µg/L	69,400	69,000	0.6	NR
Zinc	µg/L	4.9B*	4.3B*	NA	0.6

NOTE: B* = Analyte concentration is between the IDL and the CRDL.
NA = Not applicable; analyte concentration was less than 5X the reporting limit.
NR = Not required; analyte concentration was greater than 5X the reporting limit and, therefore, the RPD was applied.
Dashes (---) indicate this column does not apply to organic analysis.

All precision requirements were met for organic and inorganic results for the duplicate analyses of Sample MW-NASB-069; the results are usable as reported.

The second set of field duplicate sample results associated with the samples from SDG S9MW069 (MW-NASB-008 and MW-NASB-008 DUP) had no detected analytes for organics and, therefore, met all precision requirements.

The field duplicate sample results from the leachate seep samples associated with SDG S9SW010 (LT-901 and LT-901 DUP) had no detected analytes (analyzed for volatile organic analytes only as per the scope of work) and, therefore, met all precision requirements. The analytical results for LT-901 are usable as reported based on review of the field duplicate precision.

The following table shows the sediment sample duplicate results associated with SDG S9SD010:

Compound	Units	SED-010	SED-010 DUP	RPD%
Methylene Chloride	µg/L	5B	5B	0
Acetone	µg/L	7	9	25
Total 1,2-Dichloroethene	µg/L	7	7	0

NOTE: B = Compound detected in associated method blank.
Results in bold indicate an exceedance of the precision requirements

All precision requirements were met for the field duplicate analyses; the results are usable as reported.

B.8 METHOD DETECTION LIMITS FOR SEDIMENT AND AQUEOUS SAMPLES

Appendix B.1 provides the method detection limits for sediment and aqueous samples. The method detection limit represents the minimum concentration of a substance that can be measured and reported with 99 percent confidence that the analyte concentration is greater than zero and is determined from analysis of a sample for a given matrix.

Appendix B.1

Method Detection Limits for Sediment and Aqueous Samples

Date: 10/1[redacted]1:21:06 AM

Matrix: SOIL

Compound List: 8260 APPIX.

Instrument: 5972-S

[redacted]ahdin Analytical Services
MDL Study

Dates of Analysis	Spike	Data Files
101098	5	

Analyst: JSS

Reviewed and Approved by: Date:

File: S1A9SMDL

Compound	Spike	S1509	S1510	S1511	S1512	S1513	S1514	S1516	AVG	STD DEV	MDL
1,1,1,2-TETRACHLOROETHANE	5PPB	3.99	3.97	4.19	3.89	4.16	4.57	4.53	4.19	0.27	0.85
1,1,1-TRICHLOROETHANE	5PPB	4.46	4.17	4.55	4.15	4.39	4.57	4.69	4.43	0.20	0.64
1,1,2,2-TETRACHLOROETHANE	5PPB	4.24	3.86	4.47	4.24	4.85	5.16	4.84	4.52	0.45	1.41
1,1,2-TRICHLOROETHANE	5PPB	4.63	4.36	4.47	4.19	5.02	4.91	4.76	4.62	0.30	0.94
1,1-DICHLOROETHANE	5PPB	4.81	4.56	4.72	4.51	4.84	5.21	5.08	4.82	0.26	0.81
1,1-DICHLOROETHENE	5PPB	4.25	4.01	4.11	4.00	4.25	4.43	4.24	4.18	0.15	0.48
1,2,3-TRICHLOROPROPANE	5PPB	5.08	4.69	4.49	4.06	5.44	5.22	5.17	4.88	0.49	1.53
1,2-DIBROMO-3-CHLOROPROPANE	5PPB	3.45	3.15	3.31	4.09	3.00	3.81	4.67	3.64	0.59	1.85
1,2-DIBROMOETHANE	5PPB	4.18	3.83	4.08	4.01	4.19	4.54	4.14	4.14	0.22	0.68
1,2-DICHLOROETHANE	5PPB	4.78	4.25	4.38	4.13	4.58	4.85	4.82	4.54	0.29	0.92
1,2-DICHLOROETHENE (TRANS)	5PPB	4.24	4.00	4.09	3.98	4.24	4.41	4.23	4.17	0.15	0.48
1,2-DICHLOROPROPANE	5PPB	4.26	4.16	4.58	4.10	4.50	4.76	4.65	4.43	0.26	0.81
1,4-DIOXANE	200PPB	33.07	32.61	44.88	31.23	59.76	8.61	39.37	35.65	15.53	48.81
2-BUTANONE	5PPB	4.89	4.90	4.57	4.63	4.89	5.21	4.19	4.75	0.32	1.02
2-CHLOROETHYLVINYLETHER	5PPB	2.61	2.62	3.01	2.68	2.23	2.84	2.71	2.67	0.24	0.75
2-HEXANONE	5PPB	3.67	3.93	2.91	3.30	3.88	3.73	3.48	3.56	0.36	1.13
4-METHYL-2-PENTANONE	5PPB	6.16	5.54	6.09	5.56	6.01	6.45	6.01	5.97	0.33	1.02
ACETONE	5PPB	7.42	7.07	7.44	7.07	8.69	8.80	7.90	7.77	0.72	2.27
ACETONITRILE	100PPB	66.66	74.34	74.27	69.98	81.68	86.61	87.22	77.25	8.05	25.31
ACROLEIN	5PPB	8.06	6.87	7.94	8.47	4.51	8.94	5.05	7.12	1.72	5.42
ACRYLONITRILE	5PPB	5.82	5.10	4.24	4.18	4.05	4.62	4.34	4.62	0.63	1.99
ALLYL CHLORIDE	5PPB	4.86	4.60	5.32	4.96	5.60	5.12	5.55	5.14	0.37	1.16
BENZENE	5PPB	4.37	4.18	4.38	4.03	4.39	4.55	4.45	4.34	0.17	0.55
BROMODICHLOROMETHANE	5PPB	4.42	3.98	4.55	4.11	4.49	4.88	4.74	4.45	0.32	1.01
BROMOFORM	5PPB	3.58	3.45	3.62	3.54	4.35	4.31	4.52	3.91	0.46	1.44
BROMOMETHANE	5PPB	5.18	4.84	5.25	4.81	5.77	5.36	6.70	5.42	0.65	2.05
CARBON DISULFIDE	5PPB	5.22	4.94	5.17	4.77	5.01	5.35	5.28	5.11	0.21	0.65
CARBON TETRACHLORIDE	5PPB	4.55	4.08	4.48	4.11	4.41	4.85	4.60	4.44	0.27	0.86
CHLOROBENZENE	5PPB	4.34	4.06	4.29	4.11	4.31	4.55	4.41	4.30	0.17	0.53
CHLOROETHANE	5PPB	5.33	5.11	5.24	4.82	5.22	5.55	5.76	5.29	0.30	0.95
CHLOROFORM	5PPB	4.98	4.70	5.09	5.12	5.37	5.83	5.54	5.23	0.38	1.18
CHLOROMETHANE	5PPB	4.65	4.59	4.72	4.27	4.61	5.03	4.85	4.67	0.24	0.74
CHLOROPRENE	5PPB	3.68	3.60	3.52	3.37	3.48	3.87	3.60	3.59	0.16	0.50
CIS-1,3-DICHLOROPROPENE	5PPB	3.82	3.86	3.94	3.48	3.96	3.86	4.04	3.85	0.18	0.57

Date: 10/14/98 11:21:06 AM

Matrix: SOIL

Compound List: 8260 APPIX.

Instrument: 5972-S

Katahdin Analytical Services
MDL Study

Dates of Analysis	Spike	Data Files
101098	5	

Analyst: JSS

Reviewed and Approved by: Date:

File: S1A9SMDL

Compound	Spike	S1509	S1510	S1511	S1512	S1513	S1514	S1516	AVG	STD DEV	MDL
DIBROMOCHLOROMETHANE	5PPB	3.98	4.22	4.49	3.92	4.46	4.71	4.69	4.35	0.32	1.01
DIBROMOMETHANE	5PPB	4.48	4.18	4.39	4.21	4.58	4.62	4.77	4.46	0.22	0.68
DICHLORODIFLUOROMETHANE	5PPB	6.39	5.87	6.14	5.46	6.02	6.67	6.44	6.14	0.40	1.27
ETHYL METHACRYLATE	5PPB	2.96	3.44	3.40	3.09	3.59	3.87	3.54	3.41	0.31	0.97
ETHYLBENZENE	5PPB	3.62	3.45	3.51	3.28	3.39	3.58	3.67	3.50	0.14	0.43
ISOBUTYL ALCOHOL	200PPB	37.24	46.55	44.62	41.63	45.51	45.60	38.79	42.85	3.67	11.54
M+P-XYLENE	5PPB	6.89	6.59	6.85	6.55	6.86	7.49	6.77	6.86	0.31	0.97
METHACRYLONITRILE	100PPB	52.87	50.08	50.44	48.62	55.42	56.07	54.48	52.57	2.90	9.11
METHYL IODIDE	5PPB	4.60	4.27	4.94	4.12	4.66	4.88	4.74	4.60	0.30	0.96
METHYL METHACRYLATE	5PPB	5.25	4.90	5.26	4.91	4.99	5.80	4.65	5.11	0.37	1.17
METHYLENE CHLORIDE	5PPB	7.61	8.29	8.08	6.69	6.92	8.32	8.32	7.75	0.69	2.18
O-XYLENE	5PPB	3.15	3.19	3.12	2.84	3.05	3.20	2.83	3.05	0.16	0.50
PENTACHLOROETHANE	5PPB	4.58	4.94	4.59	4.94	3.67	4.19	5.46	4.62	0.58	1.81
PROPIONITRILE	100PPB	48.28	47.24	50.93	46.42	55.80	60.26	55.37	52.04	5.21	16.37
STYRENE	5PPB	3.27	3.14	3.18	3.01	2.90	3.46	3.17	3.16	0.18	0.56
TETRACHLOROETHENE	5PPB	4.02	3.60	4.14	3.36	4.33	4.38	4.01	3.98	0.37	1.18
TOLUENE	5PPB	4.29	3.98	4.44	4.11	4.23	4.46	4.36	4.27	0.18	0.55
TRANS-1,3-DICHLOROPROPENE	5PPB	3.62	4.46	4.46	4.05	4.50	4.74	4.56	4.34	0.38	1.19
TRANS-1,4-DICHLORO-2-BUTENE	5PPB	3.16	2.58	2.17	3.56	1.54	1.45	1.56	2.29	0.84	2.65
TRICHLOROETHENE	5PPB	4.34	3.91	4.21	3.75	4.26	4.48	4.20	4.16	0.25	0.79
TRICHLOROFLUOROMETHANE	5PPB	5.16	4.69	5.04	4.72	4.90	5.32	5.13	4.99	0.23	0.74
VINYL ACETATE	5PPB	4.14	3.83	3.76	3.70	3.43	4.01	3.92	3.83	0.23	0.72
VINYL CHLORIDE	5PPB	4.83	4.66	4.77	4.56	4.76	5.02	5.03	4.80	0.17	0.55

KATAHDIN ANALYTICAL SERVICES, INC. - ELEMENTS SECTION

ICP Method Detection Limit (MDL) Study in Sand Matrix - Methods 3050A/6010A

Instrument: Thermo Jarrell Ash Trace ICP
Acid Matrix: 5% HCl, 1% HNO3

ELEMENT	Aluminum		Antimony		Arsenic		Barium		Beryllium	
Method No.	6010		6010		6010		6010		6010	
Linear Range										
Analysis Date	01/16/98		01/16/98		01/16/98		01/16/98		01/16/98	
Prep. Dilution Fctr. (DF)	1	1	1	1	1	1	1	1	1	1
Standard True Value	60.00	0	6.00	0	6.00	0	0.40	0	0.50	0
MEASURED CONC.										
Replicate # 1	710.92	528.27	6.10	1.02	4.91	0.13	6.33	4.33	0.58	0.05
Replicate # 2	811.66	548.9	4.60	-0.58	4.07	-1.11	2.96	1.92	0.48	0.05
Replicate # 3	600.30	528.34	4.60	-0.26	3.69	-1.36	2.18	3.66	0.56	0.15
Replicate # 4	700.63	462.3	15.76	-0.85	5.67	-0.67	2.37	2.29	0.47	0.03
Replicate # 5	1182.80	1101	5.48	0.41	4.66	-0.84	5.51	8.51	0.56	0.18
Replicate # 6	1066.10	707.99	4.75	0.83	5.31	-0.46	4.58	7.01	0.51	0.06
Replicate # 7	566.01	429.05	4.09	-0.12	4.43	-1.38	3.32	2.15	0.53	0.11
Replicate # 8										
Replicate # 9										
Replicate #10										
Mean	805.489	615.121	6.483	0.064	4.677	-0.813	3.893	4.267	0.527	0.090
Recovery (%)	317.3%	N.A.	107.0%	N.A.	91.5%	N.A.	-93.6%	N.A.	87.4%	N.A.
Standard Deviation (SD)	234.418	231.711	4.144	0.708	0.689	0.539	1.606	2.575	0.042	0.057
Degrees of Freedom	6	6	6	6	6	6	6	6	6	6
Student's T-value (t)	3.143	3.143	3.143	3.143	3.143	3.143	3.143	3.143	3.143	3.143
MDL(txSDxDF)	***736.776***	***728.267***	***13.025***	***2.226***	***2.164***	***1.694***	***5.048***	***8.095***	***0.133***	***0.181***

KATAHDIN ANALYTICAL SERVICES, INC. - ELEMENTS SECTION

ICP Method Detection Limit (MDL) Study in Sand Matrix - Methods 3050A/6010A

Instrument: Thermo Jarrell Ash Trace ICP
Acid Matrix: 5% HCl, 1% HNO3

ELEMENT	Boron		Cadmium		Calcium		Chromium		Cobalt	
Method No.	6010		6010		6010		6010		6010	
Linear Range										
Analysis Date	01/16/98		01/16/98		01/16/98		01/16/98		01/16/98	
Prep. Dilution Fctr. (DF)	1	1	1	1	1	1	1	1	1	1
Standard True Value	3.00	0	0.60	0	20.00	0	1.50	0	1.50	0
MEASURED CONC.										
Replicate # 1	5.85	2.32	0.72	0.08	711.17	623.72	3.58	1.64	1.06	-0.33
Replicate # 2	6.86	2.28	0.71	0.03	684.27	544.62	4.08	1.23	0.98	-0.63
Replicate # 3	7.66	0.72	0.73	0.13	603.90	576.11	3.15	2.27	0.68	-0.54
Replicate # 4	5.07	2.29	0.63	0	684.19	523.25	4.51	1.79	0.78	-0.4
Replicate # 5	9.40	4.62	0.76	0.08	1088.30	1008.6	4.20	2.74	1.01	-0.34
Replicate # 6	6.04	1.89	0.77	0.06	907.85	745.76	3.54	1.64	1.08	-0.54
Replicate # 7	4.43	0.65	0.67	0.13	542.75	544.57	4.33	1.11	0.75	-0.63
Replicate # 8										
Replicate # 9										
Replicate #10										
Mean	6.473	2.110	0.713	0.073	746.061	652.376	3.913	1.774	0.906	-0.487
Recovery (%)	145.4%	N.A.	106.7%	N.A.	468.4%	N.A.	142.6%	N.A.	92.9%	N.A.
Standard Deviation (SD)	1.676	1.324	0.049	0.048	188.729	174.242	0.495	0.570	0.164	0.129
Degrees of Freedom	6	6	6	6	6	6	6	6	6	6
Student's T-value (t)	3.143	3.143	3.143	3.143	3.143	3.143	3.143	3.143	3.143	3.143
MDL(txSDxDF)	***5.266***	***4.161***	***0.155***	***0.152***	***593.175***	***547.641***	***1.557***	***1.793***	***0.516***	***0.406***

KATAHDIN ANALYTICAL SERVICES, INC. - ELEMENTS SECTION

ICP Method Detection Limit (MDL) Study in Sand Matrix - Methods 3050A/6010A

Instrument: Thermo Jarrell Ash Trace ICP
Acid Matrix: 5% HCl, 1% HNO3

ELEMENT	Copper		Iron		Lead		Magnesium		Manganese	
Method No.	6010		6010		6010		6010		6010	
Linear Range										
Analysis Date	01/16/98		01/16/98		01/16/98		01/16/98		01/16/98	
Prep. Dilution Fctr. (DF)	1	1	1	1	1	1	1	1	1	1
Standard True Value	1.50	0	30.00	0	3.00	0	15.00	0	0.40	0
MEASURED CONC.										
Replicate # 1	3.35	1.78	853.28	690.55	5.87	1.12	157.10	125.55	48.88	43.29
Replicate # 2	2.95	1.51	787.13	645.19	4.54	1.58	172.80	121.91	38.11	35.64
Replicate # 3	3.17	2.94	714.53	743.63	4.65	2.18	145.59	131.4	37.56	38.14
Replicate # 4	3.05	2.05	856.58	529.57	6.11	1.3	146.46	113.29	45.13	28.7
Replicate # 5	3.63	2.44	1314.00	1355.4	4.77	7.73	259.80	249.92	78.51	79.88
Replicate # 6	2.85	1.56	1079.40	980.68	4.35	1.64	210.85	165.27	59.49	60.74
Replicate # 7	3.10	2.42	664.17	483.74	5.20	1.77	130.15	97.12	34.02	26.39
Replicate # 8										
Replicate # 9										
Replicate #10										
Mean	3.157	2.100	895.584	775.537	5.070	2.474	174.679	143.494	48.814	44.683
Recovery (%)	70.5%	N.A.	400.2%	N.A.	86.5%	N.A.	207.9%	N.A.	1032.9%	N.A.
Standard Deviation (SD)	0.262	0.527	227.401	302.545	0.684	2.342	45.629	51.312	15.650	19.206
Degrees of Freedom	6	6	6	6	6	6	6	6	6	6
Student's T-value (t)	3.143	3.143	3.143	3.143	3.143	3.143	3.143	3.143	3.143	3.143
MDL(txSDxDF)	***0.825***	***1.657***	***714.720***	***950.899***	***2.149***	***7.361***	***143.411***	***161.274***	***49.187***	***60.365***

KATAHDIN ANALYTICAL SERVICES, INC. - ELEMENTS SECTION

ICP Method Detection Limit (MDL) Study in Sand Matrix - Methods 3050A/6010A

Instrument: Thermo Jarrell Ash Trace ICP
Acid Matrix: 5% HCl, 1% HNO3

ELEMENT	Molybdenum		Nickel		Potassium		Selenium		Silicon	
Method No.	6010		6010		6010		6010		6010	
Linear Range										
Analysis Date	01/16/98		01/16/98				01/16/98			
Prep. Dilution Fctr. (DF)	1	1	1	1	1	1	1	1	1	1
Standard True Value	3.00	0	2.00	0	1.00	0	6.00	0	1.00	0
MEASURED CONC.										
Replicate # 1	4.30	1.14	3.20	1.25			6.31	0.12		
Replicate # 2	3.46	0.55	3.15	1.03			6.60	0.45		
Replicate # 3	3.23	0.43	3.39	1.38			6.40	0.96		
Replicate # 4	3.52	0.43	3.25	1.25			5.36	1.51		
Replicate # 5	3.16	0.62	3.83	1.62			6.39	1.25		
Replicate # 6	3.15	0.73	3.33	1.25			4.07	0.41		
Replicate # 7	3.11	-0.03	3.40	1.43			6.37	2.13		
Replicate # 8										
Replicate # 9										
Replicate #10										
Mean	3.419	0.553	3.364	1.316	#DIV/0!	#DIV/0!	5.929	0.976	#DIV/0!	#DIV/0!
Recovery (%)	95.5%	N.A.	102.4%	N.A.	#DIV/0!	N.A.	82.5%	N.A.	#DIV/0!	N.A.
Standard Deviation (SD)	0.420	0.354	0.226	0.185	#DIV/0!	#DIV/0!	0.913	0.710	#DIV/0!	#DIV/0!
Degrees of Freedom	6	6	6	6	-1	-1	6	6	-1	-1
Student's T-value (t)	3.143	3.143	3.143	3.143	ERR	ERR	3.143	3.143	ERR	ERR
MDL(txSDxDF)	***1.320***	***1.112***	***0.710***	***0.580***	***#DIV/0!***	***#DIV/0!***	***2.870***	***2.231***	***#DIV/0!***	***#DIV/0!***

KATAHDIN ANALYTICAL SERVICES, INC. - ELEMENTS SECTION

ICP Method Detection Limit (MDL) Study in Sand Matrix - Methods 3050A/6010A

Instrument: Thermo Jarrell Ash Trace ICP
Acid Matrix: 5% HCl, 1% HNO3

ELEMENT	Silver		Sodium		Strontium		Thallium		Tin	
Method No.	6010		6010		6010		6010		6010	
Linear Range										
Analysis Date	01/16/98				01/16/98		01/16/98		01/16/98	
Prep. Dilution Fctr. (DF)	1	1	1	1	1	1	1	1	1	1
Standard True Value	3.00	0		0	0.10	0	10.00	0	6.00	0
MEASURED CONC.										
Replicate # 1	2.92	-0.01			2.28	1.6	8.42	-4.6	28.38	21.94
Replicate # 2	2.57	-0.13			2.14	1.5	6.54	-3.29	27.68	20.89
Replicate # 3	2.72	0.28			1.67	1.53	2.04	-5.51	26.61	22.67
Replicate # 4	2.59	-0.03			2.01	1.35	5.23	-3.5	27.08	21.43
Replicate # 5	2.76	0.1			3.20	3.13	5.16	-5.79	28.05	19.99
Replicate # 6	2.60	-0.14			3.09	1.91	6.32	-3.38	26.71	21.38
Replicate # 7	3.98	-0.3			1.67	1.31	4.72	-3.38	26.55	20.51
Replicate # 8										
Replicate # 9										
Replicate #10										
Mean	2.877	-0.033	#DIV/0!	#DIV/0!	2.294	1.761	5.490	-4.207	27.294	21.259
Recovery (%)	97.0%	N.A.	#DIV/0!	N.A.	532.9%	N.A.	97.0%	N.A.	100.6%	N.A.
Standard Deviation (SD)	0.502	0.186	#DIV/0!	#DIV/0!	0.624	0.635	1.960	1.085	0.743	0.895
Degrees of Freedom	6	6	-1	-1	6	6	6	6	6	6
Student's T-value (t)	3.143	3.143	ERR	ERR	3.143	3.143	3.143	3.143	3.143	3.143
MDL(txSDxDF)	***1.577***	***0.586***	***#DIV/0!***	***#DIV/0!***	***1.962***	***1.994***	***6.160***	***3.411***	***2.334***	***2.813***

KATAHDIN ANALYTICAL SERVICES, INC. - ELEMENTS SECTION

ICP Method Detection Limit (MDL) Study in Sand Matrix - Methods 3050A/6010A

Instrument: Thermo Jarrell Ash Trace ICP
Acid Matrix: 5% HCl, 1% HNO3

ELEMENT	Titanium		Vanadium		Zinc					
Method No.	6010		6010		6010		6010		6010	
Linear Range										
Analysis Date	01/16/98		01/16/98		01/16/98					
Prep. Dilution Fctr. (DF)	1	1	1	1	1	1	1	1	1	1
Standard True Value	0.80	0	2.00	0	1.00	0		0		0
MEASURED CONC.										
Replicate # 1	487.30	432.39	3.74	1.36	3.14	1.15				
Replicate # 2	340.31	321.04	4.05	0.98	3.01	1.49				
Replicate # 3	379.56	378.97	3.34	1.5	2.01	3.45				
Replicate # 4	474.85	322.64	3.77	1.27	4.39	2.16				
Replicate # 5	538.16	535.47	5.01	2.83	12.56	4.05				
Replicate # 6	437.67	496.45	4.21	1.85	3.54	3.12				
Replicate # 7	343.06	366.16	3.61	1.07	3.73	1.78				
Replicate # 8										
Replicate # 9										
Replicate #10										
Mean	428.701	407.589	3.961	1.551	4.626	2.457	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Recovery (%)	2639.1%	N.A.	120.5%	N.A.	216.9%	N.A.	#DIV/0!	N.A.	#DIV/0!	N.A.
Standard Deviation (SD)	76.581	83.773	0.542	0.633	3.574	1.092	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Degrees of Freedom	6	6	6	6	6	6	-1	-1	-1	-1
Student's T-value (t)	3.143	3.143	3.143	3.143	3.143	3.143	ERR	ERR	ERR	ERR
MDL(txSDxDF)	***240.693***	***263.298***	***1.704***	***1.988***	***11.234***	***3.432***	***#DIV/0!***	***#DIV/0!***	***#DIV/0!***	***#DIV/0!***

KATAHDIN ANALYTICAL SERVICES, INC. - METALS ANALYSIS SECTION
Method Detection Limit Study

Analysis Method: 7471A
Prep. Method: 7471A
Analyst: DPD
Date: 01/07/98
Instrument I.D.: Leeman PS200

Matrix: Soil
Sample Weight or Volume: 0.60 g
Spike Conc. and Amount: 0.080 ug/L

ANALYTE	TEST CONC. (ug/L)	MDL REPLICATES (ug/L)							MEAN CONC. (ug/L)	STANDARD DEVIATION (ug/L)	CALC. MDL (ug/L)	REPORTING LIMIT (ug/L)
		1	2	3	4	5	6	7				
Mercury	0.080	0.080	0.072	0.083	0.082	0.066	0.058	0.074	0.0736	0.0092	0.0288	0.20

Date: 1[illegible]9:08:03 AM

Matrix: WATER

Compound List: 8260B 5ML PURGE

5970-I

[illegible]atahdin Analytical Services
MDL Study

Dates of Analysis	Spike	Data Files
JAN 14,1998	1 UG/L	I0639- I0646
JAN 21,1998	2 UG/L	I0708- I0714
FEB 04,1998	5 UG/L	I0814- I0820

Analyst: JCG

Reviewed and Approved by: JA Date: 020598

File:

Compound	Spike	I0639	I0640	I0641	I0642	I0643	I0644	I0646	AVG	STD DEV	MDL
1,1,1,2-TETRACHLOROETHANE	1.00	1.15	0.89	1.14	1.10	1.18	0.99	1.13	1.08	0.10	0.33
1,1,1-TRICHLOROETHANE	1.00	1.07	1.08	1.15	1.12	1.19	1.00	0.65	1.04	0.18	0.57
1,1,2,2-TETRACHLOROETHANE	2.00	2.67	2.48	2.24	2.46	2.28	2.36	2.62	2.44	0.16	0.51
1,1,2-TRICHLOROETHANE	1.00	1.14	1.22	1.18	1.06	1.08	0.96	1.18	1.12	0.09	0.28
1,1-DICHLOROETHANE	1.00	1.14	1.23	1.30	1.28	1.30	1.42	0.54	1.17	0.29	0.92
1,1-DICHLOROETHENE	1.00	0.82	0.57	0.98	0.92	1.00	1.00	1.10	0.91	0.17	0.55
1,1-DICHLOROPROPENE	1.00	1.25	0.51	1.09	1.17	1.38	0.98	1.00	1.05	0.28	0.87
1,2,3-TRICHLOROBENZENE	1.00	1.16	0.97	1.30	1.48	1.70	0.90	1.54	1.29	0.30	0.94
1,2,3-TRICHLOROPROPANE	2.00	2.63	2.43	2.22	1.96	2.38	2.29	2.26	2.31	0.21	0.65
1,2,4-TRICHLOROBENZENE	1.00	1.12	1.07	1.15	1.23	1.63	0.87	1.58	1.24	0.28	0.87
1,2,4-TRIMETHYLBENZENE	1.00	1.06	1.02	1.24	1.05	1.38	0.98	1.15	1.13	0.14	0.45
1,2-DIBROMO-3-CHLOROPROPANE	2.00	1.94	2.37	2.60	2.31	2.60	2.07	2.41	2.33	0.25	0.78
1,2-DIBROMOETHANE	1.00	1.07	1.05	1.17	1.13	0.85	1.21	0.80	1.04	0.16	0.49
1,2-DICHLOROBENZENE	1.00	1.14	1.08	1.30	1.03	1.44	1.17	1.35	1.22	0.15	0.47
1,2-DICHLOROETHANE	1.00	1.30	0.79	1.10	1.18	1.22	1.44	1.21	1.18	0.20	0.63
1,2-DICHLOROETHENE (CIS)	1.00	1.08	0.73	1.01	1.10	0.98	0.89	0.57	0.91	0.20	0.61
1,2-DICHLOROETHENE (TRANS)	1.00	1.19	0.75	1.00	1.22	1.36	1.18	1.13	1.12	0.19	0.61
1,2-DICHLOROPROPANE	1.00	1.58	1.49	1.31	1.49	1.48	1.37	1.21	1.42	0.13	0.40
1,3,5-TRICHLOROBENZENE	2.00	1.98	2.08	2.16	2.15	1.98	1.92	1.85	2.02	0.12	0.37
1,3,5-TRIMETHYLBENZENE	1.00	1.14	0.99	1.14	1.05	1.37	0.98	1.12	1.11	0.13	0.41
1,3-DICHLOROBENZENE	1.00	1.24	1.05	1.24	1.08	1.39	1.07	1.45	1.22	0.16	0.50
1,3-DICHLOROPROPANE	1.00	1.14	1.13	1.19	0.98	1.10	1.06	1.22	1.12	0.08	0.25
1,4-DICHLOROBENZENE	1.00	1.31	1.33	1.38	1.24	1.64	1.33	1.68	1.42	0.17	0.54
2,2-DICHLOROPROPANE	2.00	1.50	1.69	1.48	1.37	1.44	1.36	1.52	1.48	0.11	0.35
2-BUTANONE	5.00	7.40	7.34	5.58	5.58	6.92	5.70	6.43	6.42	0.82	2.56
2-CHLOROETHYLVINYLETHER	1.00	1.10	0.73	0.65	0.79	0.96	0.93	0.66	0.83	0.17	0.53
2-CHLOROTOLUENE	1.00	1.36	0.77	1.28	1.02	1.49	1.14	1.18	1.18	0.24	0.74
2-HEXANONE	2.00	3.30	3.00	3.62	3.09	2.64	2.84	3.30	3.11	0.33	1.03
4-CHLOROTOLUENE	1.00	1.11	1.03	1.27	1.35	1.38	1.33	1.23	1.24	0.13	0.41
4-METHYL-2-PENTANONE	1.00	2.18	1.68	1.73	1.63	1.88	1.31	1.38	1.68	0.29	0.93
ACETONE	5.00	9.37	6.91	6.67	6.37	7.83	6.22	6.02	7.06	1.18	3.71
ACROLEIN	5.00	7.51	8.21	7.74	7.79	10.37	10.99	9.54	8.88	1.41	4.43
ACRYLONITRILE	5.00	6.34	5.91	6.21	5.79	6.86	6.00	5.78	6.13	0.38	1.21
BENZENE	1.00	1.17	1.07	1.21	1.06	1.20	1.10	1.04	1.12	0.07	0.22

Date: 1/15/98 9:08:03 AM

Matrix: WATER

Compound List: 8260B 5ML PURGE

5970-I

Katahdin Analytical Services
MDL Study

Dates of Analysis	Spike	Data Files
JAN 14,1998	1 UG/L	I0639- I0646
JAN 21,1998	2 UG/L	I0708- I0714
FEB 04,1998	5 UG/L	I0814- I0820

Analyst: JCG

Reviewed and Approved by: JA Date: 020598

File:

Compound	Spike	I0639	I0640	I0641	I0642	I0643	I0644	I0646	AVG	STD DEV	MDL
BROMOBENZENE	1.00	0.97	0.93	1.21	0.97	1.34	1.23	1.07	1.10	0.16	0.50
BROMOCHLOROMETHANE	1.00	1.04	0.54	0.74	0.87	1.03	0.60	1.09	0.84	0.22	0.70
BROMODICHLOROMETHANE	1.00	1.20	0.52	1.11	1.10	1.15	1.16	1.27	1.07	0.25	0.79
BROMOFORM	1.00	1.03	1.02	1.07	0.91	1.02	1.21	1.18	1.06	0.10	0.32
BROMOMETHANE	1.00	1.20	0.86	1.06	0.93	1.05	1.21	1.02	1.05	0.13	0.40
CARBON DISULFIDE	1.00	1.20	1.17	1.01	1.22	1.34	1.22	1.04	1.17	0.11	0.36
CARBON TETRACHLORIDE	1.00	1.16	0.99	1.18	1.04	1.24	1.22	1.15	1.14	0.09	0.29
CHLOROBENZENE	1.00	1.01	1.05	1.10	1.04	1.20	1.07	1.15	1.09	0.07	0.21
CHLOROETHANE	1.00	1.46	1.13	0.87	0.65	0.89	0.94	1.21	1.02	0.27	0.84
CHLOROFORM	1.00	1.20	0.63	1.15	1.04	1.11	0.57	0.78	0.93	0.26	0.82
CHLOROMETHANE	2.00	2.67	1.97	2.55	2.41	2.05	2.35	1.58	2.23	0.38	1.19
CIS-1,3-DICHLOROPROPENE	1.00	1.22	1.01	1.30	1.02	1.00	1.08	1.08	1.10	0.12	0.36
DIBROMOCHLOROMETHANE	1.00	1.01	1.05	1.04	0.97	1.02	1.01	1.05	1.02	0.03	0.09
DIBROMOMETHANE	1.00	1.12	1.04	1.15	1.11	1.24	1.23	1.20	1.16	0.07	0.23
DICHLORODIFLUOROMETHANE	2.00	1.71	1.82	1.91	1.64	1.37	1.47	1.94	1.69	0.22	0.68
ETHYL METHACRYLATE	1.00	1.38	1.37	1.22	1.32	1.19	1.14	1.23	1.26	0.09	0.29
ETHYLBENZENE	1.00	1.20	1.12	1.12	1.22	1.36	1.15	1.24	1.20	0.08	0.27
FREON-113	2.00	1.62	1.63	1.57	1.56	1.37	1.32	1.54	1.52	0.12	0.38
HEXACHLOROBUTADIENE	1.00	1.11	1.01	1.36	1.30	1.78	1.11	1.65	1.33	0.29	0.91
ISOPROPYLBENZENE	1.00	1.06	1.00	1.14	1.02	1.27	0.97	1.04	1.07	0.10	0.32
M+P-XYLENE	2.00	2.24	2.21	2.36	1.94	2.94	2.30	2.27	2.32	0.30	0.95
METHYLENE CHLORIDE	2.00	3.47	4.40	4.38	4.27	4.21	3.88	4.53	4.16	0.37	1.16
MTBE	1.00	1.30	1.06	1.26	1.27	1.14	1.23	1.22	1.21	0.08	0.26
N-BUTYLBENZENE	1.00	1.07	0.95	1.23	1.13	1.55	0.93	1.23	1.16	0.21	0.66
N-PROPYLBENZENE	1.00	1.05	1.02	0.97	1.14	1.35	0.98	1.15	1.09	0.13	0.42
NAPHTHALENE	2.00	1.63	1.75	1.77	1.76	1.67	1.57	1.75	1.70	0.08	0.24
O-XYLENE	1.00	1.08	0.92	1.12	0.88	1.27	1.05	1.12	1.06	0.13	0.41
P-ISOPROPYLTOLUENE	1.00	1.05	0.82	1.11	1.02	1.34	0.51	1.13	1.00	0.26	0.83
SEC-BUTYLBENZENE	1.00	0.99	1.07	1.16	1.02	1.40	0.96	1.25	1.12	0.16	0.50
STYRENE	1.00	1.12	0.86	1.04	0.95	1.35	1.03	1.13	1.07	0.16	0.49
TERT-BUTYLBENZENE	1.00	0.95	0.94	1.09	1.01	1.23	0.96	0.98	1.02	0.10	0.33
TETRACHLOROETHENE	1.00	1.05	0.79	1.12	1.12	1.50	1.05	1.15	1.11	0.21	0.66
TETRAHYD[illegible]URAN	5.00	7.94	5.51	7.32	[illegible]6	7.89	7.52	7.24	7.28	0.82	2.59
TOLUENE	1.00	1.22	1.09	1.12	[illegible]9	0.98	1.13	1.06	1.10	0.07	0.23

Date: 1[illegible]9:08:03 AM

Matrix: WATER

Compound List: 8260B 5ML PURGE

5970-I

[illegible]atahdin Analytical Services
MDL Study

Dates of Analysis	Spike	Data Files
JAN 14,1998	1 UG/L	I0639- I0646
JAN 21,1998	2 UG/L	I0708- I0714
FEB 04,1998	5 UG/L	I0814- I0820

Analyst: JCG

Reviewed and Approved by: JB Date: 020598

File:

Compound	Spike	I0639	I0640	I0641	I0642	I0643	I0644	I0646	AVG	STD DEV	MDL
TRANS-1,3-DICHLOROPROPENE	1.00	1.31	1.05	1.07	1.06	0.99	1.08	0.96	1.07	0.11	0.36
TRICHLOROETHENE	1.00	1.24	0.93	1.07	1.14	1.26	1.24	1.11	1.14	0.12	0.37
TRICHLOROFLUOROMETHANE	1.00	1.22	0.56	1.26	1.31	1.30	1.35	1.36	1.19	0.28	0.89
VINYL ACETATE	5.00	5.02	5.09	5.30	5.25	4.36	4.08	4.31	4.77	0.51	1.59
VINYL CHLORIDE	1.00	1.20	1.02	1.18	1.03	1.61	1.26	0.80	1.16	0.25	0.79

Katahdin Analytical Services, Inc.
Metals Section
Instrument Detection Limits - 4th Quarter 1998

ELEMENT	IDL (ug/L)	INSTRUMENT	METHOD
Aluminum	23.02	TJA Trace	ICP
Antimony	2.05	TJA Trace	ICP
Arsenic	1.81	TJA Trace	ICP
Barium	0.14	TJA Trace	ICP
Beryllium	0.18	TJA Trace	ICP
Boron	1.00	TJA Trace	ICP
Cadmium	0.19	TJA Trace	ICP
Calcium	7.86	TJA Trace	ICP
Chromium	0.46	TJA Trace	ICP
Cobalt	0.44	TJA Trace	ICP
Copper	0.64	TJA Trace	ICP
Iron	10.46	TJA Trace	ICP
Lead	0.91	TJA Trace	ICP
Magnesium	5.39	TJA Trace	ICP
Manganese	0.13	TJA Trace	ICP
Mercury	0.030	Leeman	CVAA
Molybdenum	0.98	TJA Trace	ICP
Nickel	0.76	TJA Trace	ICP
Potassium	326.14	TJA 61	ICP
Selenium	1.92	TJA Trace	ICP
Silicon	27.51	TJA 61	ICP
Silver	0.99	TJA Trace	ICP
Sodium	17.14	TJA 61	ICP
Strontium	0.03	TJA Trace	ICP
Thallium	4.50	TJA Trace	ICP
Tin	2.07	TJA Trace	ICP
Titanium	0.24	TJA Trace	ICP
Vanadium	0.63	TJA Trace	ICP
Zinc	0.32	TJA Trace	ICP

Method Detection Limit Study

Method:	6010B	Matrix:	AQUEOUS
Sample Prep. Method:	3010A	Sample Weight or Volume:	N.A.
Analyst:	EAM	Spike Conc. and Amount:	VARIOUS
Date:	1/15/98		
Instrument I.D.:	TJA Trace ICP		

Contaminant	Test Conc. (ug/L)	MDL Replicates (ug/L)							Mean Conc. (ug/L)	Standard Deviation (ug/L)	Calculated MDL (ug/L)	Reporting Limit (ug/L)
		1	2	3	4	5	6	7				
Aluminum	60	90.29	84.55	56.07	88.57	80.24	85.14	84.08	81.28	11.58	36.39	100
Antimony	6	6.46	6.65	6.41	6.04	5.54	6.62	6.81	6.36	0.44	1.37	8
Arsenic	6	5.33	5.3	6.56	5.67	6.38	5.89	6.8	5.99	0.60	1.88	8
Barium	0.4	2.23	2.16	2.32	1.34	1.93	2.72	2.57	2.18	0.45	1.43	5
Beryllium	0.5	0.48	0.41	0.54	0.49	0.59	0.56	0.5	0.51	0.06	0.19	5
Boron	3	9.39	9.69	7.44	7.53	6.11	14.91	7.17	8.89	2.94	9.23	100
Cadmium	0.6	0.76	0.71	0.79	0.78	0.65	0.74	0.78	0.74	0.05	0.16	10
Calcium	20	35.41	28.94	34.7	38.67	36.15	34.29	44.9	36.15	4.85	15.24	50
Chromium	1.5	1.9	1.69	1.71	2.01	1.82	1.64	1.88	1.81	0.13	0.42	15
Cobalt	1.5	1.25	1.43	1.19	1.71	1.35	1.28	1.73	1.42	0.22	0.69	30
Copper	1.5	1.84	1.59	1.7	2.01	2.55	1.66	2.21	1.94	0.35	1.09	25
Iron	30	48.03	40.7	41.65	47.84	46.17	40.23	38.74	43.34	3.89	12.23	25
Lead	3	4.02	3.87	3.91	3.67	3.84	4.17	4.84	4.05	0.38	1.20	5
Magnesium	15	24.48	18.42	19.13	20.22	20.4	17.41	21.1	20.17	2.28	7.17	50
Manganese	0.4	0.63	0.55	0.55	0.69	0.71	0.59	0.71	0.63	0.07	0.22	5
Molybdenum	3	3.38	3.28	2.13	3.14	3.07	3.16	3.18	3.05	0.42	1.31	100
Nickel	2	2.63	2.22	2.51	2.66	2.79	2.01	2.6	2.49	0.28	0.86	40

Method Detection Limit Study

Method:	6010B	Matrix:	AQUEOUS
Sample Prep. Method:	3010A	Sample Weight or Volume:	N.A.
Analyst:	EAM	Spike Conc. and Amount:	VARIOUS
Date:	1/15/98		
Instrument I.D.:	TJA Trace ICP		

Contaminant	Test Conc. (ug/L)	MDL Replicates (ug/L)							Mean Conc. (ug/L)	Standard Deviation (ug/L)	Calculated MDL (ug/L)	Reporting Limit (ug/L)
		1	2	3	4	5	6	7				
Selenium	6	7.34	6.36	6.26	6.6	6.68	7.28	6.71	6.75	0.42	1.31	10
Silver	3	1.98	2.55	2.57	2.66	2.79	2.56	2.67	2.54	0.26	0.82	15
Strontium	0.1	0.12	0.11	0.12	0.14	0.12	0.12	0.15	0.13	0.01	0.04	100
Thallium	10	8.63	10.17	11.38	10.23	10.66	11.18	10.63	10.41	0.90	2.84	15
Tin	6	5.35	5.79	5.26	5.9	6.24	7.11	5.98	5.95	0.62	1.94	100
Titanium	0.8	1.13	1.01	1.17	0.97	0.99	1.03	1.11	1.06	0.08	0.24	15
Vanadium	2	2.34	2.04	2.32	2.15	2.13	2.3	2.41	2.24	0.13	0.42	25
Zinc	1	3.84	3.31	4.23	4.84	5.34	5.6	5.97	4.73	0.98	3.07	25

Method Detection Limit Study

Method:	6010B	Matrix:	AQUEOUS
Sample Prep. Method:	3010A	Sample Weight or Volume:	N.A.
Analyst:	EAM	Spike Conc. and Amount:	VARIOUS
Date:	1/16/98		
Instrument I.D.:	TJA 61 ICP		

Contaminant	Test Conc. (ug/L)	MDL Replicates (ug/L)							Mean Conc. (ug/L)	Standard Deviation (ug/L)	Calculated MDL (ug/L)	Reporting Limit (ug/L)
		1	2	3	4	5	6	7				
Aluminum	40	55.78	49.58	58.84	52.62	54.76	55.49	49.4	53.78	3.46	10.86	100
Barium	1.5	4.97	4.99	3.87	3.12	4.03	3.09	5.47	4.22	0.95	2.97	5
Beryllium	0.6	0.74	0.86	0.81	0.79	0.86	0.81	0.76	0.80	0.05	0.14	5
Calcium	50	58.08	50.09	58.84	56.81	50.67	48.74	54.28	53.93	4.12	12.96	50
Chromium	8	8.99	7.98	9.2	9.09	10.24	8.47	8.06	8.86	0.78	2.45	15
Cobalt	8	9.14	8.43	8.95	9.7	9.46	8.7	7.51	8.84	0.73	2.29	30
Copper	5	5.07	4.24	6.58	4.09	5.28	4.62	2.78	4.67	1.17	3.69	25
Iron	10	21.12	23.02	26.44	21.53	22.73	21.89	29.27	23.71	3.02	9.48	25
Magnesium	40	50.07	46.87	46.98	49.06	43.1	43.61	41.81	45.93	3.14	9.88	50
Manganese	3	3.58	3.43	3.91	3.62	3.41	3.41	3.18	3.51	0.23	0.72	5
Nickel	25	33.14	30.62	29.15	31.43	29.07	28.14	30.32	30.27	1.68	5.28	40
Potassium	1200	1127.3	1075.5	1215.7	1251.8	1239.7	1100.2	820.61	1118.69	148.83	467.78	1000
Silicon	50	133.3	88.99	128.9	89.57	80.76	76.44	100.2	99.74	22.73	71.43	200
Silver	10	10.66	9	10.6	9.75	10.32	9.64	8.78	9.82	0.75	2.35	15
Sodium	50	121.23	114.83	134.48	109.3	104.43	123.21	113.59	117.30	9.96	31.30	100
Vanadium	8	8.55	9.81	8.51	9.87	10.38	8.55	9.01	9.24	0.77	2.42	25
Zinc	4	7.01	6.21	8.98	6.82	6.36	7.95	9.4	7.53	1.27	3.99	25

KATAHDIN ANALYTICAL SERVICES, INC. - METALS ANALYSIS SECTION
Method Detection Limit Study

Analysis Method: 7470A
Prep. Method: 7470A
Analyst: GFB
Date: 09/19/98
Instrument I.D.: Leeman PS200

Matrix: Aqueous
Sample Weight or Volume: N.A.
Spike Conc. and Amount: 0.080 ug/L

ANALYTE	TEST CONC. (ug/L)	MDL REPLICATES (ug/L)							MEAN CONC. (ug/L)	STANDARD DEVIATION (ug/L)	CALC. MDL (ug/L)	REPORTING LIMIT (ug/L)
		1	2	3	4	5	6	7				
Mercury	0.080	0.054	0.062	0.066	0.059	0.061	0.071	0.062	0.0621	0.0053	0.0168	0.20

Appendix C

Analytical Report Data Tables

C.1 Ground-Water Samples Site 9
C.2 Surface Water Samples Site 9
C.3 Sediment Samples Site 9
C.4 MS/MSD Recovery Reports

Appendix C.1

Ground-Water Samples
Site 9

APPENDIX C.1

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

Sample Designation	Sample Station
Monitoring Wells	
S9-MW069	MW-NASB-069
S9-MWXD1	MW-NASB-069 (DUP)
S9-MW070	MW-NASB-070
S9-MW071	MW-NASB-071
S9-MW072	MW-NASB-072
S9-MW074	MW-NASB-074
S9-MW075	MW-NASB-075
S9-MW076	MW-NASB-076
S9-MW077	MW-NASB-077
S9-MW080	MW-NASB-080
S9-MW022	MW-NASB-022
S9-MW227	MW-NASB-227
S9-MW008	MW-NASB-008
S9-MWXD2	MW-NASB-008 (DUP)
S9-MW009	MW-NASB-009
S9-MW010	MW-NASB-010
Trip Blank	
S9-QT001	QT-001
S9-QT002	QT-002
Equipment Rinsate Blank	
S9-QS001	QS-001
Source Water Blank	
S1-QD001	QD-001

Katahdin ANALYTICAL SERVICES
340 County Road No. 5
P.O. Box 720
Westbrook, ME 04098
Tel: (207) 874-2400
Fax: (207) 775-4029

CHAIN of CUSTODY

PLEASE PRINT IN PEN

Client: EA Engineering | Contact: Pete Nimmer | Phone #: (914) 565-8100 | Fax #: (914) 565 8203

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

Purchase Order # | Proj. Name / No.: LTMP Event 15 | Katahdin Quote #

Bill (if different than above) | Address

Sampler (Print / Sign) | Copies To:

LAB USE ONLY | WORK ORDER #: WP3932 | KATAHDIN PROJECT MANAGER

REMARKS:

SHIPPING INFO: ☐ FED EX ☐ UPS ☐ CLIENT

AIRBILL NO:

TEMP°C ☐ TEMP BLANK ☐ INTACT ☐ NOT INTACT

ANALYSIS AND CONTAINER TYPE PRESERVATIVES

#	Sample Description	Date / Time coll'd	Matrix	No. of Cntrs.	VOC 8260 VOA w/ HCL (Filt. ☐Y☐N)	SVOC 1 Amberlite (Filt. ☐Y☐N)	TAL Metals 1L HNO3 (Filt. ☐Y☐N)	(Filt. ☐Y☐N)	(Filt. ☐Y☐N)	(Filt. ☐Y☐N)	(Filt. ☐Y☐N)	(Filt. ☐Y☐N)	(Filt. ☐Y☐N)	(Filt. ☐Y☐N)
✓	BN1559MW069 MS/MSD	9/14/99/923	W	18	X	X	~~X~~ SK							
✓	BN1559MW070	9/14/99/1604	W	3		X	X							
✓	BN1559MW071	9-14-99/1416	W	3	X									
✓	BN1559MW072	9-13-99/1015	W	3	X									
✓	BN1559MW074	9-13-99/1117	W	3	X									
✓	BN1559MW075	9-13-99/1345	W	3	X									
✓	BN1559MW076	9-13-99/1455	W	3	X									
✓	BN1559MW079	9/14-99/1112	W	3		X	X							
✓	BN1559MW080	9/14/99/1005	W	3	X									
✓	BN1559MW022	9-13-99/1458	W	3	X									
✓	BN1559MW227	9-13-99/1346	W	3	X									
	BN1559MWXD1	9-14-99/—	W	6	X	X	X							
✓	BN1559MWXD2	9-14-99/—	W	3	X									
✓	BN1559MW069 MS	9/14/99/923	W	2			X							
✓	BN1559-QS001	9/14/99/930	W	3	X									
		/												

COMMENTS: Full Data Package to Newburgh. Form I + COC to Sue Chase. all samples SDG # BN1559MW069

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
Sue Chase	9/15/99 1130	[signature]		9-15-99 1340	[signature]
Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)

Katahdin ANALYTICAL SERVICES
340 County Road No. 5
P.O. Box 720
Westbrook, ME 04098
Tel: (207) 874-2400
Fax: (207) 775-4029

CHAIN of CUSTODY

PLEASE PRINT IN PEN

Client: EA
Contact: Pete Nimmer
Phone #: (914) 565 8200
Fax #: (914) 5658
Address: 3 Washington Center
City: Newburgh
State: NY
Zip Code: 12550
Purchase Order #:
Proj. Name / No.: Eventis
Katahdin Quote #:
Bill (if different than above):
Address:
Sampler (Print / Sign):
Copies To:

LAB USE ONLY
WORK ORDER #: WP3932
KATAHDIN PROJECT MANAGER:
REMARKS:
SHIPPING INFO: ☐ FED EX ☐ UPS ☐ CLIENT
AIRBILL NO:
TEMP°C: ☐ TEMP BLANK ☐ INTACT ☐ NOT INTACT

ANALYSIS AND CONTAINER TYPE PRESERVATIVES

Sample Description	Date / Time coll'd	Matrix	No. of Cntrs.	10C 8260 HCL	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N
BN1559MW008	9/14/99/1140	W	3	X										
BN1559MW009	9/14/99/1355	W	3	X										
BN1559MW010	9/14/99/1455	W	3	X										
BN1559QT002	9/14/99/1600	W	3	X										
	/													
	/													
	/													
	/													
	/													
	/													
	/													
	/													
	/													
	/													
	/													

COMMENTS
Ends SDG BN1559MW069

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
[illegible]	9/15/99 1130	[illegible]		9-15-99 1340	[illegible]
Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETE NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP3932-1
SDG: BN15S9MW069
Report Date: 10/6/99
PO No. : 29600.47
Project: LTMP EVENT 15
% Solids: N/A
Method: EPA 8260
Date Analyzed: 9/18/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN15S9MW069	AQ	9/14/99	9/15/99	9/18/99	HMP	5030	HMP

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	45	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	<1	ug/L	1.0	1.0	1.0
ACETONE	<5	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TAL 1,2-DICHLOROETHENE	54	ug/L	1.0	1.0	1.0
LOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

ort Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETE NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP3932-1
SDG: BN15S9MW069
Report Date: 10/6/99
PO No. : 29600.47
Project: LTMP EVENT 15
% Solids: N/A
Method: EPA 8260
Date Analyzed: 9/18/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN15S9MW069	AQ	9/14/99	9/15/99	9/18/99	HMP	5030	HMP

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	122	%	1.0		
TOLUENE-D8	113	%	1.0		
P-BROMOFLUOROBENZENE	96	%	1.0		
1,2-DICHLOROETHANE-D4	122	%	1.0		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETE NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP3932-1
SDG: BN15S9MW069
Report Date: 10/13/99
PO No. : 29600.47
Project: LTMP EVENT 15
% Solids: N/A
Method: EPA 8270B
Date Analyzed: 9/27/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN15S9MW069	AQ	9/14/99	9/15/99	9/20/99	DS	EPA 3510	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
PHENOL	<10	ug/L	1.0	10	10
BIS(2-CHLOROETHYL)ETHER	<10	ug/L	1.0	10	10
2-CHLOROPHENOL	<10	ug/L	1.0	10	10
1,3-DICHLOROBENZENE	<10	ug/L	1.0	10	10
1,4-DICHLOROBENZENE	<10	ug/L	1.0	10	10
1,2-DICHLOROBENZENE	<10	ug/L	1.0	10	10
2-METHYLPHENOL	<10	ug/L	1.0	10	10
2,2'-OXYBIS(1-CHLOROPROPANE)	<10	ug/L	1.0	10	10
4-METHYLPHENOL	<10	ug/L	1.0	10	10
N-NITROSO-DI-N-PROPYLAMINE	<10	ug/L	1.0	10	10
HEXACHLOROETHANE	<10	ug/L	1.0	10	10
NITROBENZENE	<10	ug/L	1.0	10	10
ISOPHORONE	<10	ug/L	1.0	10	10
2-NITROPHENOL	<10	ug/L	1.0	10	10
2,4-DIMETHYLPHENOL	<10	ug/L	1.0	10	10
BIS(2-CHLOROETHOXY)METHANE	<10	ug/L	1.0	10	10
2,4-DICHLOROPHENOL	<10	ug/L	1.0	10	10
1,2,4-TRICHLOROBENZENE	<10	ug/L	1.0	10	10
NAPHTHALENE	<10	ug/L	1.0	10	10
4-CHLOROANILINE	<10	ug/L	1.0	10	10
HEXACHLOROBUTADIENE	<10	ug/L	1.0	10	10
4-CHLORO-3-METHYLPHENOL	<10	ug/L	1.0	10	10
2-METHYLNAPHTHALENE	<10	ug/L	1.0	10	10
HEXACHLOROCYCLOPENTADIEN	<10	ug/L	1.0	10	10
2,4,6-TRICHLOROPHENOL	<10	ug/L	1.0	10	10
2,4,5-TRICHLOROPHENOL	<25	ug/L	1.0	25	25
2-CHLORONAPHTHALENE	<10	ug/L	1.0	10	10
2-NITROANILINE	<25	ug/L	1.0	25	25
DIMETHYL PHTHALATE	<10	ug/L	1.0	10	10
ACENAPHTHYLENE	<10	ug/L	1.0	10	10
2,6-DINITROTOLUENE	<10	ug/L	1.0	10	10
3-NITROANILINE	<25	ug/L	1.0	25	25
ACENAPHTHENE	<10	ug/L	1.0	10	10

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETE NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP3932-1
SDG: BN15S9MW069
Report Date: 10/13/99
PO No. : 29600.47
Project: LTMP EVENT 15
% Solids: N/A
Method: EPA 8270B
Date Analyzed: 9/27/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN15S9MW069	AQ	9/14/99	9/15/99	9/20/99	DS	EPA 3510	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
2,4-DINITROPHENOL	<25	ug/L	1.0	25	25
4-NITROPHENOL	<25	ug/L	1.0	25	25
DIBENZOFURAN	<10	ug/L	1.0	10	10
2,4-DINITROTOLUENE	<10	ug/L	1.0	10	10
DIETHYLPHTHALATE	<10	ug/L	1.0	10	10
4-CHLOROPHENYL-PHENYLETHE	<10	ug/L	1.0	10	10
FLUORENE	<10	ug/L	1.0	10	10
4-NITROANILINE	<25	ug/L	1.0	25	25
4,6-DINITRO-2-METHYLPHENOL	<25	ug/L	1.0	25	25
N-NITROSODIPHENYLAMINE	<10	ug/L	1.0	10	10
4-BROMOPHENYL-PHENYLETHER	<10	ug/L	1.0	10	10
HEXACHLOROBENZENE	<10	ug/L	1.0	10	10
PENTACHLOROPHENOL	<25	ug/L	1.0	25	25
PHENANTHRENE	<10	ug/L	1.0	10	10
ANTHRACENE	<10	ug/L	1.0	10	10
CARBAZOLE	<10	ug/L	1.0	10	10
DI-N-BUTYLPHTHALATE	<10	ug/L	1.0	10	10
FLUORANTHENE	<10	ug/L	1.0	10	10
PYRENE	<10	ug/L	1.0	10	10
BUTYLBENZYLPHTHALATE	<10	ug/L	1.0	10	10
3,3'-DICHLOROBENZIDINE	<10	ug/L	1.0	10	10
BENZO[A]ANTHRACENE	<10	ug/L	1.0	10	10
CHRYSENE	<10	ug/L	1.0	10	10
BIS(2-ETHYLHEXYL)PHTHALATE	<10	ug/L	1.0	10	10
DI-N-OCTYLPHTHALATE	<10	ug/L	1.0	10	10
BENZO[B]FLUORANTHENE	<10	ug/L	1.0	10	10
BENZO[K]FLUORANTHENE	<10	ug/L	1.0	10	10
BENZO[A]PYRENE	<10	ug/L	1.0	10	10
INDENO[1,2,3-CD]PYRENE	<10	ug/L	1.0	10	10
DIBENZ[A,H]ANTHRACENE	<10	ug/L	1.0	10	10
BENZO[G,H,I]PERYLENE	<10	ug/L	1.0	10	10
2-FLUOROPHENOL	53	%	1.0		
PHENOL-D6	37	%	1.0		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETE NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP3932-1
SDG: BN15S9MW069
Report Date: 10/13/99
PO No. : 29600.47
Project: LTMP EVENT 15
% Solids: N/A
Method: EPA 8270B
Date Analyzed: 9/27/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN15S9MW069	AQ	9/14/99	9/15/99	9/20/99	DS	EPA 3510	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
NITROBENZENE-D5	84	%	1.0		
2-FLUOROBIPHENYL	82	%	1.0		
2,4,6-TRIBROMOPHENOL	86	%	1.0		
TERPHENYL-D14	104	%	1.0		

Report Notes:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** BN15S9MW069

Matrix: WATER **SDG Name:** BN15S9MW069

Percent Solids: 0.00 **Lab Sample ID:** WP3932-001

Concentration Units (ug/L or mg/Kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF
7429-90-5	ALUMINUM	43.4	B		P	1
7440-36-0	ANTIMONY	1.81	U		P	1
7440-38-2	ARSENIC	2.07	U		P	1
7440-39-3	BARIUM	10.5			P	1
7440-41-7	BERYLLIUM	0.33	U		P	1
7440-43-9	CADMIUM	1.94	U		P	1
7440-70-2	CALCIUM	8750			P	1
7440-47-3	CHROMIUM	4.31	U		P	1
7440-48-4	COBALT	4.45	U		P	1
7440-50-8	COPPER	1.62	U		P	1
7439-89-6	IRON	189			P	1
7439-92-1	LEAD	1.09	U		P	1
7439-95-4	MAGNESIUM	3330			P	1
7439-96-5	MANGANESE	705			P	1
7439-97-6	MERCURY	0.03	B		CV	1
7440-02-0	NICKEL	13.21	U		P	1
7440-09-7	POTASSIUM	1550			P	1
7782-49-2	SELENIUM	2.57	U		P	1
7440-22-4	SILVER	2.54	U		P	1
7440-23-5	SODIUM	69400			P	1
7440-28-0	THALLIUM	8.98	U		P	2
7440-62-2	VANADIUM	3.58	U		P	1
7440-66-6	ZINC	4.9	B		P	1

Color Before: COLORLESS Clarity Before: CLEAR

Color After: COLORLESS Clarity After: CLEAR

Comments:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETE NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP3932-2
SDG: BN15S9MW069
Report Date: 10/6/99
PO No. : 29600.47
Project: LTMP EVENT 15
% Solids: N/A
Method: EPA 8260
Date Analyzed: 9/18/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN15S9MWXD1	AQ	9/14/99	9/15/99	9/18/99	HMP	5030	HMP

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	58	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	<1	ug/L	1.0	1.0	1.0
ACETONE	<5	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	67	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETE NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP3932-2
SDG: BN15S9MW069
Report Date: 10/6/99
PO No. : 29600.47
Project: LTMP EVENT 15
% Solids: N/A
Method: EPA 8260
Date Analyzed: 9/18/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN15S9MWXD1	AQ	9/14/99	9/15/99	9/18/99	HMP	5030	HMP

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	122	%	1.0		
TOLUENE-D8	110	%	1.0		
P-BROMOFLUOROBENZENE	92	%	1.0		
1,2-DICHLOROETHANE-D4	124	%	1.0		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETE NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP3932-2
SDG: BN15S9MW069
Report Date: 10/13/99
PO No. : 29600.47
Project: LTMP EVENT 15
% Solids: N/A
Method: EPA 8270B
Date Analyzed: 9/27/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN15S9MWXD1	AQ	9/14/99	9/15/99	9/20/99	DS	EPA 3510	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
PHENOL	<10	ug/L	1.0	10	10
BIS(2-CHLOROETHYL)ETHER	<10	ug/L	1.0	10	10
2-CHLOROPHENOL	<10	ug/L	1.0	10	10
1,3-DICHLOROBENZENE	<10	ug/L	1.0	10	10
1,4-DICHLOROBENZENE	<10	ug/L	1.0	10	10
1,2-DICHLOROBENZENE	<10	ug/L	1.0	10	10
2-METHYLPHENOL	<10	ug/L	1.0	10	10
2,2'-OXYBIS(1-CHLOROPROPANE)	<10	ug/L	1.0	10	10
4-METHYLPHENOL	<10	ug/L	1.0	10	10
N-NITROSO-DI-N-PROPYLAMINE	<10	ug/L	1.0	10	10
HEXACHLOROETHANE	<10	ug/L	1.0	10	10
NITROBENZENE	<10	ug/L	1.0	10	10
ISOPHORONE	<10	ug/L	1.0	10	10
2-NITROPHENOL	<10	ug/L	1.0	10	10
2,4-DIMETHYLPHENOL	<10	ug/L	1.0	10	10
BIS(2-CHLOROETHOXY)METHANE	<10	ug/L	1.0	10	10
2,4-DICHLOROPHENOL	<10	ug/L	1.0	10	10
1,2,4-TRICHLOROBENZENE	<10	ug/L	1.0	10	10
NAPHTHALENE	<10	ug/L	1.0	10	10
4-CHLOROANILINE	<10	ug/L	1.0	10	10
HEXACHLOROBUTADIENE	<10	ug/L	1.0	10	10
4-CHLORO-3-METHYLPHENOL	<10	ug/L	1.0	10	10
2-METHYLNAPHTHALENE	<10	ug/L	1.0	10	10
HEXACHLOROCYCLOPENTADIEN	<10	ug/L	1.0	10	10
2,4,6-TRICHLOROPHENOL	<10	ug/L	1.0	10	10
2,4,5-TRICHLOROPHENOL	<25	ug/L	1.0	25	25
2-CHLORONAPHTHALENE	<10	ug/L	1.0	10	10
2-NITROANILINE	<25	ug/L	1.0	25	25
DIMETHYL PHTHALATE	<10	ug/L	1.0	10	10
ACENAPHTHYLENE	<10	ug/L	1.0	10	10
2,6-DINITROTOLUENE	<10	ug/L	1.0	10	10
3-NITROANILINE	<25	ug/L	1.0	25	25
ACENAPHTHENE	<10	ug/L	1.0	10	10

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETE NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP3932-2
SDG: BN15S9MW069
Report Date: 10/13/99
PO No. : 29600.47
Project: LTMP EVENT 15
% Solids: N/A
Method: EPA 8270B
Date Analyzed: 9/27/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN15S9MWXD1	AQ	9/14/99	9/15/99	9/20/99	DS	EPA 3510	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
2,4-DINITROPHENOL	<25	ug/L	1.0	25	25
4-NITROPHENOL	<25	ug/L	1.0	25	25
DIBENZOFURAN	<10	ug/L	1.0	10	10
2,4-DINITROTOLUENE	<10	ug/L	1.0	10	10
DIETHYLPHTHALATE	<10	ug/L	1.0	10	10
4-CHLOROPHENYL-PHENYLETHE	<10	ug/L	1.0	10	10
FLUORENE	<10	ug/L	1.0	10	10
4-NITROANILINE	<25	ug/L	1.0	25	25
4,6-DINITRO-2-METHYLPHENOL	<25	ug/L	1.0	25	25
N-NITROSODIPHENYLAMINE	<10	ug/L	1.0	10	10
4-BROMOPHENYL-PHENYLETHER	<10	ug/L	1.0	10	10
HEXACHLOROBENZENE	<10	ug/L	1.0	10	10
PENTACHLOROPHENOL	<25	ug/L	1.0	25	25
PHENANTHRENE	<10	ug/L	1.0	10	10
ANTHRACENE	<10	ug/L	1.0	10	10
CARBAZOLE	<10	ug/L	1.0	10	10
DI-N-BUTYLPHTHALATE	<10	ug/L	1.0	10	10
FLUORANTHENE	<10	ug/L	1.0	10	10
PYRENE	<10	ug/L	1.0	10	10
BUTYLBENZYLPHTHALATE	<10	ug/L	1.0	10	10
3,3'-DICHLOROBENZIDINE	<10	ug/L	1.0	10	10
BENZO[A]ANTHRACENE	<10	ug/L	1.0	10	10
CHRYSENE	<10	ug/L	1.0	10	10
BIS(2-ETHYLHEXYL)PHTHALATE	<10	ug/L	1.0	10	10
DI-N-OCTYLPHTHALATE	<10	ug/L	1.0	10	10
BENZO[B]FLUORANTHENE	<10	ug/L	1.0	10	10
BENZO[K]FLUORANTHENE	<10	ug/L	1.0	10	10
BENZO[A]PYRENE	<10	ug/L	1.0	10	10
INDENO[1,2,3-CD]PYRENE	<10	ug/L	1.0	10	10
DIBENZ[A,H]ANTHRACENE	<10	ug/L	1.0	10	10
BENZO[G,H,I]PERYLENE	<10	ug/L	1.0	10	10
2-FLUOROPHENOL	55	%	1.0		
PHENOL-D6	33	%	1.0		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETE NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP3932-2
SDG: BN15S9MW069
Report Date: 10/13/99
PO No. : 29600.47
Project: LTMP EVENT 15
% Solids: N/A
Method: EPA 8270B
Date Analyzed: 9/27/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN15S9MWXD1	AQ	9/14/99	9/15/99	9/20/99	DS	EPA 3510	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
NITROBENZENE-D5	85	%	1.0		
2-FLUOROBIPHENYL	81	%	1.0		
2,4,6-TRIBROMOPHENOL	94	%	1.0		
TERPHENYL-D14	106	%	1.0		

Report Notes:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** BN15S9MWXD1

Matrix: WATER **SDG Name:** BN15S9MW069

Percent Solids: 0.00 **Lab Sample ID:** WP3932-002

Concentration Units (ug/L or mg/Kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF
7429-90-5	ALUMINUM	60.2	B		P	1
7440-36-0	ANTIMONY	1.81	U		P	1
7440-38-2	ARSENIC	2.07	U		P	1
7440-39-3	BARIUM	10.5			P	1
7440-41-7	BERYLLIUM	0.33	U		P	1
7440-43-9	CADMIUM	1.94	U		P	1
7440-70-2	CALCIUM	8780			P	1
7440-47-3	CHROMIUM	4.31	U		P	1
7440-48-4	COBALT	4.45	U		P	1
7440-50-8	COPPER	1.62	U		P	1
7439-89-6	IRON	201			P	1
7439-92-1	LEAD	1.09	U		P	1
7439-95-4	MAGNESIUM	3350			P	1
7439-96-5	MANGANESE	720			P	1
7439-97-6	MERCURY	0.03	B		CV	1
7440-02-0	NICKEL	13.21	U		P	1
7440-09-7	POTASSIUM	1790			P	1
7782-49-2	SELENIUM	2.57	U		P	1
7440-22-4	SILVER	2.54	U		P	1
7440-23-5	SODIUM	69000			P	1
7440-28-0	THALLIUM	4.49	U		P	1
7440-62-2	VANADIUM	3.58	U		P	1
7440-66-6	ZINC	4.3	B		P	1

Color Before: COLORLESS Clarity Before: CLEAR

Color After: COLORLESS Clarity After: CLEAR

Comments:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETE NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP3932-3
SDG: BN15S9MW069
Report Date: 10/13/99
PO No. : 29600.47
Project: LTMP EVENT 15
% Solids: N/A
Method: EPA 8270B
Date Analyzed: 9/27/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN15S9MW070	AQ	9/14/99	9/15/99	9/20/99	DS	EPA 3510	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
PHENOL	<10	ug/L	1.0	10	10
BIS(2-CHLOROETHYL)ETHER	<10	ug/L	1.0	10	10
2-CHLOROPHENOL	<10	ug/L	1.0	10	10
1,3-DICHLOROBENZENE	<10	ug/L	1.0	10	10
1,4-DICHLOROBENZENE	<10	ug/L	1.0	10	10
1,2-DICHLOROBENZENE	<10	ug/L	1.0	10	10
2-METHYLPHENOL	<10	ug/L	1.0	10	10
2,2'-OXYBIS(1-CHLOROPROPANE)	<10	ug/L	1.0	10	10
4-METHYLPHENOL	<10	ug/L	1.0	10	10
N-NITROSO-DI-N-PROPYLAMINE	<10	ug/L	1.0	10	10
HEXACHLOROETHANE	<10	ug/L	1.0	10	10
NITROBENZENE	<10	ug/L	1.0	10	10
ISOPHORONE	<10	ug/L	1.0	10	10
2-NITROPHENOL	<10	ug/L	1.0	10	10
2,4-DIMETHYLPHENOL	<10	ug/L	1.0	10	10
BIS(2-CHLOROETHOXY)METHANE	<10	ug/L	1.0	10	10
2,4-DICHLOROPHENOL	<10	ug/L	1.0	10	10
1,2,4-TRICHLOROBENZENE	<10	ug/L	1.0	10	10
NAPHTHALENE	<10	ug/L	1.0	10	10
4-CHLOROANILINE	<10	ug/L	1.0	10	10
HEXACHLOROBUTADIENE	<10	ug/L	1.0	10	10
4-CHLORO-3-METHYLPHENOL	<10	ug/L	1.0	10	10
2-METHYLNAPHTHALENE	<10	ug/L	1.0	10	10
HEXACHLOROCYCLOPENTADIEN	<10	ug/L	1.0	10	10
2,4,6-TRICHLOROPHENOL	<10	ug/L	1.0	10	10
2,4,5-TRICHLOROPHENOL	<25	ug/L	1.0	25	25
2-CHLORONAPHTHALENE	<10	ug/L	1.0	10	10
2-NITROANILINE	<25	ug/L	1.0	25	25
DIMETHYL PHTHALATE	<10	ug/L	1.0	10	10
ACENAPHTHYLENE	<10	ug/L	1.0	10	10
2,6-DINITROTOLUENE	<10	ug/L	1.0	10	10
3-NITROANILINE	<25	ug/L	1.0	25	25
ACENAPHTHENE	<10	ug/L	1.0	10	10

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETE NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP3932-3
SDG: BN15S9MW069
Report Date: 10/13/99
PO No. : 29600.47
Project: LTMP EVENT 15
% Solids: N/A
Method: EPA 8270B
Date Analyzed: 9/27/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN15S9MW070	AQ	9/14/99	9/15/99	9/20/99	DS	EPA 3510	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
2,4-DINITROPHENOL	<25	ug/L	1.0	25	25
4-NITROPHENOL	<25	ug/L	1.0	25	25
DIBENZOFURAN	<10	ug/L	1.0	10	10
2,4-DINITROTOLUENE	<10	ug/L	1.0	10	10
DIETHYLPHTHALATE	<10	ug/L	1.0	10	10
4-CHLOROPHENYL-PHENYLETHE	<10	ug/L	1.0	10	10
FLUORENE	<10	ug/L	1.0	10	10
4-NITROANILINE	<25	ug/L	1.0	25	25
4,6-DINITRO-2-METHYLPHENOL	<25	ug/L	1.0	25	25
N-NITROSODIPHENYLAMINE	<10	ug/L	1.0	10	10
4-BROMOPHENYL-PHENYLETHER	<10	ug/L	1.0	10	10
HEXACHLOROBENZENE	<10	ug/L	1.0	10	10
PENTACHLOROPHENOL	<25	ug/L	1.0	25	25
PHENANTHRENE	<10	ug/L	1.0	10	10
ANTHRACENE	<10	ug/L	1.0	10	10
CARBAZOLE	<10	ug/L	1.0	10	10
DI-N-BUTYLPHTHALATE	<10	ug/L	1.0	10	10
FLUORANTHENE	<10	ug/L	1.0	10	10
PYRENE	<10	ug/L	1.0	10	10
BUTYLBENZYLPHTHALATE	<10	ug/L	1.0	10	10
3,3'-DICHLOROBENZIDINE	<10	ug/L	1.0	10	10
BENZO[A]ANTHRACENE	<10	ug/L	1.0	10	10
CHRYSENE	<10	ug/L	1.0	10	10
BIS(2-ETHYLHEXYL)PHTHALATE	<10	ug/L	1.0	10	10
DI-N-OCTYLPHTHALATE	<10	ug/L	1.0	10	10
BENZO[B]FLUORANTHENE	<10	ug/L	1.0	10	10
BENZO[K]FLUORANTHENE	<10	ug/L	1.0	10	10
BENZO[A]PYRENE	<10	ug/L	1.0	10	10
INDENO[1,2,3-CD]PYRENE	<10	ug/L	1.0	10	10
DIBENZ[A,H]ANTHRACENE	<10	ug/L	1.0	10	10
BENZO[G,H,I]PERYLENE	<10	ug/L	1.0	10	10
2-FLUOROPHENOL	60	%	1.0		
PHENOL-D6	38	%	1.0		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETE NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP3932-3
SDG: BN15S9MW069
Report Date: 10/13/99
PO No. : 29600.47
Project: LTMP EVENT 15
% Solids: N/A
Method: EPA 8270B
Date Analyzed: 9/27/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN15S9MW070	AQ	9/14/99	9/15/99	9/20/99	DS	EPA 3510	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
NITROBENZENE-D5	104	%	1.0		
2-FLUOROBIPHENYL	108	%	1.0		
2,4,6-TRIBROMOPHENOL	113	%	1.0		
TERPHENYL-D14	120	%	1.0		

Report Notes:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** BN15S9MW070

Matrix: WATER **SDG Name:** BN15S9MW069

Percent Solids: 0.00 **Lab Sample ID:** WP3932-003

Concentration Units (ug/L or mg/Kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF
7429-90-5	ALUMINUM	122			P	1
7440-36-0	ANTIMONY	1.81	U		P	1
7440-38-2	ARSENIC	2.07	U		P	1
7440-39-3	BARIUM	14.6			P	1
7440-41-7	BERYLLIUM	0.33	U		P	1
7440-43-9	CADMIUM	1.94	U		P	1
7440-70-2	CALCIUM	5810			P	1
7440-47-3	CHROMIUM	4.31	U		P	1
7440-48-4	COBALT	4.45	U		P	1
7440-50-8	COPPER	6.0	B		P	1
7439-89-6	IRON	58.7			P	1
7439-92-1	LEAD	1.09	U		P	1
7439-95-4	MAGNESIUM	900			P	1
7439-96-5	MANGANESE	508			P	1
7439-97-6	MERCURY	0.04	B		CV	1
7440-02-0	NICKEL	13.21	U		P	1
7440-09-7	POTASSIUM	666	B		P	1
7782-49-2	SELENIUM	3.1	B		P	1
7440-22-4	SILVER	2.54	U		P	1
7440-23-5	SODIUM	9510			P	1
7440-28-0	THALLIUM	4.49	U		P	1
7440-62-2	VANADIUM	3.58	U		P	1
7440-66-6	ZINC	5.9	B		P	1

Color Before: COLORLESS Clarity Before: CLEAR

Color After: COLORLESS Clarity After: CLEAR

Comments:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETE NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP3932-5
SDG: BN15S9MW069
Report Date: 10/6/99
PO No.: 29600.47
Project: LTMP EVENT 15
% Solids: N/A
Method: EPA 8260
Date Analyzed: 9/21/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN15S9MW071	AQ	9/14/99	9/15/99	9/21/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	<1	ug/L	1.0	1.0	1.0
ACETONE	<5	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	J0.7	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETE NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP3932-5
SDG: BN15S9MW069
Report Date: 10/6/99
PO No. : 29600.47
Project: LTMP EVENT 15
% Solids: N/A
Method: EPA 8260
Date Analyzed: 9/21/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN15S9MW071	AQ	9/14/99	9/15/99	9/21/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	106	%	1.0		
TOLUENE-D8	107	%	1.0		
P-BROMOFLUOROBENZENE	98	%	1.0		
1,2-DICHLOROETHANE-D4	102	%	1.0		

Report Notes: J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETE NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP3932-6
SDG: BN15S9MW069
Report Date: 10/6/99
PO No. : 29600.47
Project: LTMP EVENT 15
% Solids: N/A
Method: EPA 8260
Date Analyzed: 9/18/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN15S9MW072	AQ	9/13/99	9/15/99	9/18/99	HMP	5030	HMP

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	<1	ug/L	1.0	1.0	1.0
ACETONE	<5	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETE NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP3932-6
SDG: BN15S9MW069
Report Date: 10/6/99
PO No. : 29600.47
Project: LTMP EVENT 15
% Solids: N/A
Method: EPA 8260
Date Analyzed: 9/18/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN15S9MW072	AQ	9/13/99	9/15/99	9/18/99	HMP	5030	HMP

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	127	%	1.0		
TOLUENE-D8	114	%	1.0		
P-BROMOFLUOROBENZENE	91	%	1.0		
1,2-DICHLOROETHANE-D4	134	%	1.0		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETE NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP3932-7
SDG: BN15S9MW069
Report Date: 10/6/99
PO No. : 29600.47
Project: LTMP EVENT 15
% Solids: N/A
Method: EPA 8260
Date Analyzed: 9/18/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN15S9MW074	AQ	9/13/99	9/15/99	9/18/99	HMP	5030	HMP

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	JB0.6	ug/L	1.0	1.0	1.0
ACETONE	<5	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	2	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	2	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	J0.7	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: B, J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETE NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP3932-7
SDG: BN15S9MW069
Report Date: 10/6/99
PO No. : 29600.47
Project: LTMP EVENT 15
% Solids: N/A
Method: EPA 8260
Date Analyzed: 9/18/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN15S9MW074	AQ	9/13/99	9/15/99	9/18/99	HMP	5030	HMP

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	123	%	1.0		
TOLUENE-D8	114	%	1.0		
P-BROMOFLUOROBENZENE	94	%	1.0		
1,2-DICHLOROETHANE-D4	128	%	1.0		

Report Notes: B, J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETE NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP3932-8
SDG: BN15S9MW069
Report Date: 10/6/99
PO No. : 29600.47
Project: LTMP EVENT 15
% Solids: N/A
Method: EPA 8260
Date Analyzed: 9/21/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN15S9MW075	AQ	9/13/99	9/15/99	9/21/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	<1	ug/L	1.0	1.0	1.0
ACETONE	<5	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETE NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP3932-8
SDG: BN15S9MW069
Report Date: 10/6/99
PO No. : 29600.47
Project: LTMP EVENT 15
% Solids: N/A
Method: EPA 8260
Date Analyzed: 9/21/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN15S9MW075	AQ	9/13/99	9/15/99	9/21/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	108	%	1.0		
TOLUENE-D8	109	%	1.0		
P-BROMOFLUOROBENZENE	100	%	1.0		
1,2-DICHLOROETHANE-D4	104	%	1.0		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETE NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP3932-9
SDG: BN15S9MW069
Report Date: 10/6/99
PO No. : 29600.47
Project: LTMP EVENT 15
% Solids: N/A
Method: EPA 8260
Date Analyzed: 9/21/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN15S9MW076	AQ	9/13/99	9/15/99	9/21/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	2	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	<1	ug/L	1.0	1.0	1.0
ACETONE	<5	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	J0.6	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETE NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP3932-9
SDG: BN15S9MW069
Report Date: 10/6/99
PO No. : 29600.47
Project: LTMP EVENT 15
% Solids: N/A
Method: EPA 8260
Date Analyzed: 9/21/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN15S9MW076	AQ	9/13/99	9/15/99	9/21/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	108	%	1.0		
TOLUENE-D8	110	%	1.0		
P-BROMOFLUOROBENZENE	100	%	1.0		
1,2-DICHLOROETHANE-D4	108	%	1.0		

Report Notes: J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETE NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP4269-1
SDG: BN15S9MW077
Report Date: 10/28/99
PO No. : 29600.47
Project: LTMP EVENT 15
% Solids: N/A
Method: EPA 8260
Date Analyzed: 10/13/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN15S9MW077	AQ	10/12/99	10/12/99	10/13/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	<1	ug/L	1.0	1.0	1.0
ACETONE	<5	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes:

11/03/99 09:25 FAX 2077754029 KATAHDIN ANALYTICAL 004

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETE NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP4269-1
SDG: BN15S9MW077
Report Date: 10/28/99
PO No. : 29600.47
Project: LTMP EVENT 15
% Solids: N/A
Method: EPA 8260
Date Analyzed: 10/13/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN15S9MW077	AQ	10/12/99	10/12/99	10/13/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	103	%	1.0		
TOLUENE-D8	108	%	1.0		
P-BROMOFLUOROBENZENE	101	%	1.0		
1,2-DICHLOROETHANE-D4	100	%	1.0		

Report Notes:

11/03/99 09:25 FAX 2077754029 KATAHDIN ANALYTICAL 005

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETE NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP4269-1
SDG: BN15S9MW077
Report Date: 10/28/99
PO No. : 29600.47
Project: LTMP EVENT 15
% Solids: N/A
Method: SW8260
Date Analyzed: 10/14/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN15S9MW077	AQ	10/12/99	10/12/99	10/14/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
VINYL CHLORIDE	<0.15	ug/L	1.0	0.15	0.15
DIBROMOFLUOROMETHANE	139	%	1.0		
1,2-DICHLOROETHANE-D4	134	%	1.0		
TOLUENE-D8	98	%	1.0		
P-BROMOFLUOROBENZENE	80	%	1.0		

Report Notes:

11/03/99 09:25 FAX 2077754029 KATAHDIN ANALYTICAL 006

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETE NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP3932-4
SDG: BN15S9MW069
Report Date: 10/13/99
PO No. : 29600.47
Project: LTMP EVENT 15
% Solids: N/A
Method: EPA 8270B
Date Analyzed: 9/27/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN15S9MW079	AQ	9/14/99	9/15/99	9/20/99	DS	EPA 3510	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
PHENOL	<10	ug/L	1.0	10	10
BIS(2-CHLOROETHYL)ETHER	<10	ug/L	1.0	10	10
2-CHLOROPHENOL	<10	ug/L	1.0	10	10
1,3-DICHLOROBENZENE	<10	ug/L	1.0	10	10
1,4-DICHLOROBENZENE	<10	ug/L	1.0	10	10
1,2-DICHLOROBENZENE	<10	ug/L	1.0	10	10
2-METHYLPHENOL	<10	ug/L	1.0	10	10
2,2'-OXYBIS(1-CHLOROPROPANE)	<10	ug/L	1.0	10	10
4-METHYLPHENOL	<10	ug/L	1.0	10	10
N-NITROSO-DI-N-PROPYLAMINE	<10	ug/L	1.0	10	10
HEXACHLOROETHANE	<10	ug/L	1.0	10	10
NITROBENZENE	<10	ug/L	1.0	10	10
ISOPHORONE	<10	ug/L	1.0	10	10
2-NITROPHENOL	<10	ug/L	1.0	10	10
2,4-DIMETHYLPHENOL	<10	ug/L	1.0	10	10
BIS(2-CHLOROETHOXY)METHANE	<10	ug/L	1.0	10	10
2,4-DICHLOROPHENOL	<10	ug/L	1.0	10	10
1,2,4-TRICHLOROBENZENE	<10	ug/L	1.0	10	10
NAPHTHALENE	<10	ug/L	1.0	10	10
4-CHLOROANILINE	<10	ug/L	1.0	10	10
HEXACHLOROBUTADIENE	<10	ug/L	1.0	10	10
4-CHLORO-3-METHYLPHENOL	<10	ug/L	1.0	10	10
2-METHYLNAPHTHALENE	<10	ug/L	1.0	10	10
HEXACHLOROCYCLOPENTADIEN	<10	ug/L	1.0	10	10
2,4,6-TRICHLOROPHENOL	<10	ug/L	1.0	10	10
2,4,5-TRICHLOROPHENOL	<25	ug/L	1.0	25	25
2-CHLORONAPHTHALENE	<10	ug/L	1.0	10	10
2-NITROANILINE	<25	ug/L	1.0	25	25
DIMETHYL PHTHALATE	<10	ug/L	1.0	10	10
ACENAPHTHYLENE	<10	ug/L	1.0	10	10
2,6-DINITROTOLUENE	<10	ug/L	1.0	10	10
3-NITROANILINE	<25	ug/L	1.0	25	25
ACENAPHTHENE	<10	ug/L	1.0	10	10

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETE NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP3932-4
SDG: BN15S9MW069
Report Date: 10/13/99
PO No. : 29600.47
Project: LTMP EVENT 15
% Solids: N/A
Method: EPA 8270B
Date Analyzed: 9/27/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN15S9MW079	AQ	9/14/99	9/15/99	9/20/99	DS	EPA 3510	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
2,4-DINITROPHENOL	<25	ug/L	1.0	25	25
4-NITROPHENOL	<25	ug/L	1.0	25	25
DIBENZOFURAN	<10	ug/L	1.0	10	10
2,4-DINITROTOLUENE	<10	ug/L	1.0	10	10
DIETHYLPHTHALATE	<10	ug/L	1.0	10	10
4-CHLOROPHENYL-PHENYLETHE	<10	ug/L	1.0	10	10
FLUORENE	<10	ug/L	1.0	10	10
4-NITROANILINE	<25	ug/L	1.0	25	25
4,6-DINITRO-2-METHYLPHENOL	<25	ug/L	1.0	25	25
-NITROSODIPHENYLAMINE	<10	ug/L	1.0	10	10
4-BROMOPHENYL-PHENYLETHER	<10	ug/L	1.0	10	10
HEXACHLOROBENZENE	<10	ug/L	1.0	10	10
PENTACHLOROPHENOL	<25	ug/L	1.0	25	25
PHENANTHRENE	<10	ug/L	1.0	10	10
ANTHRACENE	<10	ug/L	1.0	10	10
CARBAZOLE	<10	ug/L	1.0	10	10
DI-N-BUTYLPHTHALATE	<10	ug/L	1.0	10	10
FLUORANTHENE	<10	ug/L	1.0	10	10
PYRENE	<10	ug/L	1.0	10	10
BUTYLBENZYLPHTHALATE	<10	ug/L	1.0	10	10
3,3'-DICHLOROBENZIDINE	<10	ug/L	1.0	10	10
BENZO[A]ANTHRACENE	<10	ug/L	1.0	10	10
CHRYSENE	<10	ug/L	1.0	10	10
BIS(2-ETHYLHEXYL)PHTHALATE	<10	ug/L	1.0	10	10
DI-N-OCTYLPHTHALATE	<10	ug/L	1.0	10	10
BENZO[B]FLUORANTHENE	<10	ug/L	1.0	10	10
BENZO[K]FLUORANTHENE	<10	ug/L	1.0	10	10
BENZO[A]PYRENE	<10	ug/L	1.0	10	10
INDENO[1,2,3-CD]PYRENE	<10	ug/L	1.0	10	10
DIBENZ[A,H]ANTHRACENE	<10	ug/L	1.0	10	10
BENZO[G,H,I]PERYLENE	<10	ug/L	1.0	10	10
2-FLUOROPHENOL	63	%	1.0		
PHENOL-D6	42	%	1.0		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETE NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP3932-4
SDG: BN15S9MW069
Report Date: 10/13/99
PO No. : 29600.47
Project: LTMP EVENT 15
% Solids: N/A
Method: EPA 8270B
Date Analyzed: 9/27/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN15S9MW079	AQ	9/14/99	9/15/99	9/20/99	DS	EPA 3510	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
NITROBENZENE-D5	91	%	1.0		
2-FLUOROBIPHENYL	91	%	1.0		
2,4,6-TRIBROMOPHENOL	105	%	1.0		
TERPHENYL-D14	118	%	1.0		

Report Notes:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** BN15S9MW079

Matrix: WATER **SDG Name:** BN15S9MW069

Percent Solids: 0.00 **Lab Sample ID:** WP3932-004

Concentration Units (ug/L or mg/Kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF
7429-90-5	ALUMINUM	341			P	1
7440-36-0	ANTIMONY	1.81	U		P	1
7440-38-2	ARSENIC	2.9	B		P	1
7440-39-3	BARIUM	239			P	1
7440-41-7	BERYLLIUM	0.33	U		P	1
7440-43-9	CADMIUM	1.94	U		P	1
7440-70-2	CALCIUM	25600			P	1
7440-47-3	CHROMIUM	4.31	U		P	1
7440-48-4	COBALT	4.45	U		P	1
7440-50-8	COPPER	1.62	U		P	1
7439-89-6	IRON	19000			P	1
7439-92-1	LEAD	1.4	B		P	1
7439-95-4	MAGNESIUM	1650			P	1
7439-96-5	MANGANESE	102			P	1
7439-97-6	MERCURY	0.04	B		CV	1
7440-02-0	NICKEL	13.21	U		P	1
7440-09-7	POTASSIUM	2640			P	1
7782-49-2	SELENIUM	2.57	U		P	1
7440-22-4	SILVER	2.54	U		P	1
7440-23-5	SODIUM	5280			P	1
7440-28-0	THALLIUM	4.49	U		P	1
7440-62-2	VANADIUM	3.58	U		P	1
7440-66-6	ZINC	6.3	B		P	1

Color Before: BROWN Clarity Before: CLEAR

Color After: COLORLESS Clarity After: CLEAR

Comments:

FORM I - IN

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETE NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP3932-10
SDG: BN15S9MW069
Report Date: 10/6/99
PO No. : 29600.47
Project: LTMP EVENT 15
% Solids: N/A
Method: EPA 8260
Date Analyzed: 9/21/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN15S9MW080	AQ	9/14/99	9/15/99	9/21/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	4	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	<1	ug/L	1.0	1.0	1.0
ACETONE	<5	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	J0.6	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETE NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP3932-10
SDG: BN15S9MW069
Report Date: 10/6/99
PO No. : 29600.47
Project: LTMP EVENT 15
% Solids: N/A
Method: EPA 8260
Date Analyzed: 9/21/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN15S9MW080	AQ	9/14/99	9/15/99	9/21/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	106	%	1.0		
TOLUENE-D8	107	%	1.0		
P-BROMOFLUOROBENZENE	96	%	1.0		
1,2-DICHLOROETHANE-D4	106	%	1.0		

Report Notes: J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETE NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP3932-11
SDG: BN15S9MW069
Report Date: 10/6/99
PO No. : 29600.47
Project: LTMP EVENT 15
% Solids: N/A
Method: EPA 8260
Date Analyzed: 9/21/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN15S9MW022	AQ	9/13/99	9/15/99	9/21/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	<1	ug/L	1.0	1.0	1.0
ACETONE	<5	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETE NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP3932-11
SDG: BN15S9MW069
Report Date: 10/6/99
PO No. : 29600.47
Project: LTMP EVENT 15
% Solids: N/A
Method: EPA 8260
Date Analyzed: 9/21/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN15S9MW022	AQ	9/13/99	9/15/99	9/21/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	110	%	1.0		
TOLUENE-D8	107	%	1.0		
P-BROMOFLUOROBENZENE	96	%	1.0		
1,2-DICHLOROETHANE-D4	111	%	1.0		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETE NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP3932-12
SDG: BN15S9MW069
Report Date: 10/6/99
PO No.: 29600.47
Project: LTMP EVENT 15
% Solids: N/A
Method: EPA 8260
Date Analyzed: 9/21/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN15S9MW227	AQ	9/13/99	9/15/99	9/21/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	<1	ug/L	1.0	1.0	1.0
ACETONE	<5	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	2	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	3	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	J0.9	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETE NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP3932-12
SDG: BN15S9MW069
Report Date: 10/6/99
PO No. : 29600.47
Project: LTMP EVENT 15
% Solids: N/A
Method: EPA 8260
Date Analyzed: 9/21/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN15S9MW227	AQ	9/13/99	9/15/99	9/21/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	111	%	1.0		
TOLUENE-D8	109	%	1.0		
P-BROMOFLUOROBENZENE	95	%	1.0		
1,2-DICHLOROETHANE-D4	112	%	1.0		

Report Notes: J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETE NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP3932-15
SDG: BN15S9MW069
Report Date: 10/6/99
PO No. : 29600.47
Project: LTMP EVENT 15
% Solids: N/A
Method: EPA 8260
Date Analyzed: 9/21/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN15S9MW008	AQ	9/14/99	9/15/99	9/21/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	<1	ug/L	1.0	1.0	1.0
ACETONE	<5	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Katahdin ANALYTICAL SERVICES

Client: PETE NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP3932-15
SDG: BN15S9MW069
Report Date: 10/6/99
PO No. : 29600.47
Project: LTMP EVENT 15
% Solids: N/A
Method: EPA 8260
Date Analyzed: 9/21/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN15S9MW008	AQ	9/14/99	9/15/99	9/21/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	114	%	1.0		
TOLUENE-D8	108	%	1.0		
P-BROMOFLUOROBENZENE	94	%	1.0		
1,2-DICHLOROETHANE-D4	115	%	1.0		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETE NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP3932-13
SDG: BN15S9MW069
Report Date: 10/6/99
PO No. : 29600.47
Project: LTMP EVENT 15
% Solids: N/A
Method: EPA 8260
Date Analyzed: 9/21/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN15S9MWXD2	AQ	9/14/99	9/15/99	9/21/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	<1	ug/L	1.0	1.0	1.0
ACETONE	<5	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETE NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP3932-13
SDG: BN15S9MW069
Report Date: 10/6/99
PO No. : 29600.47
Project: LTMP EVENT 15
% Solids: N/A
Method: EPA 8260
Date Analyzed: 9/21/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN15S9MWXD2	AQ	9/14/99	9/15/99	9/21/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	112	%	1.0		
TOLUENE-D8	106	%	1.0		
P-BROMOFLUOROBENZENE	96	%	1.0		
1,2-DICHLOROETHANE-D4	110	%	1.0		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETE NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP3932-16
SDG: BN15S9MW069
Report Date: 10/6/99
PO No. : 29600.47
Project: LTMP EVENT 15
% Solids: N/A
Method: EPA 8260
Date Analyzed: 9/21/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN15S9MW009	AQ	9/14/99	9/15/99	9/21/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	<1	ug/L	1.0	1.0	1.0
ACETONE	<5	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETE NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP3932-16
SDG: BN15S9MW069
Report Date: 10/6/99
PO No. : 29600.47
Project: LTMP EVENT 15
% Solids: N/A
Method: EPA 8260
Date Analyzed: 9/21/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN15S9MW009	AQ	9/14/99	9/15/99	9/21/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	119	%	1.0		
TOLUENE-D8	108	%	1.0		
P-BROMOFLUOROBENZENE	94	%	1.0		
1,2-DICHLOROETHANE-D4	119	%	1.0		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETE NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP3932-17
SDG: BN15S9MW069
Report Date: 10/6/99
PO No. : 29600.47
Project: LTMP EVENT 15
% Solids: N/A
Method: EPA 8260
Date Analyzed: 9/21/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN15S9MW010	AQ	9/14/99	9/15/99	9/21/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	<1	ug/L	1.0	1.0	1.0
ACETONE	<5	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETE NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP3932-17
SDG: BN15S9MW069
Report Date: 10/6/99
PO No. : 29600.47
Project: LTMP EVENT 15
% Solids: N/A
Method: EPA 8260
Date Analyzed: 9/21/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN15S9MW010	AQ	9/14/99	9/15/99	9/21/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	117	%	1.0		
TOLUENE-D8	109	%	1.0		
P-BROMOFLUOROBENZENE	96	%	1.0		
1,2-DICHLOROETHANE-D4	117	%	1.0		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETE NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP4269-2
SDG: BN15S9MW077
Report Date: 10/28/99
PO No. : 29600.47
Project: LTMP EVENT 15
% Solids: N/A
Method: EPA 8260
Date Analyzed: 10/13/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN15S9QT001	AQ	10/12/99	10/12/99	10/13/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	B2	ug/L	1.0	1.0	1.0
ACETONE	<5	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: B

11/03/99 09:24 FAX 2077754029 KATAHDIN ANALYTICAL 002

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETE NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP4269-2
SDG: BN15S9MW077
Report Date: 10/28/99
PO No. : 29600.47
Project: LTMP EVENT 15
% Solids: N/A
Method: EPA 8260
Date Analyzed: 10/13/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN15S9QT001	AQ	10/12/99	10/12/99	10/13/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	106	%	1.0		
TOLUENE-D8	108	%	1.0		
P-BROMOFLUOROBENZENE	102	%	1.0		
1,2-DICHLOROETHANE-D4	102	%	1.0		

Report Notes: B

11/03/99 09:24 FAX 2077754029 KATAHDIN ANALYTICAL 003

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETE NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP3932-18
SDG: BN15S9MW069
Report Date: 10/6/99
PO No.: 29600.47
Project: LTMP EVENT 15
% Solids: N/A
Method: EPA 8260
Date Analyzed: 9/21/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN15S9QT002	AQ	9/14/99	9/15/99	9/21/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	B2	ug/L	1.0	1.0	1.0
ACETONE	<5	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: B

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETE NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP3932-18
SDG: BN15S9MW069
Report Date: 10/6/99
PO No. : 29600.47
Project: LTMP EVENT 15
% Solids: N/A
Method: EPA 8260
Date Analyzed: 9/21/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN15S9QT002	AQ	9/14/99	9/15/99	9/21/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	118	%	1.0		
TOLUENE-D8	109	%	1.0		
P-BROMOFLUOROBENZENE	94	%	1.0		
1,2-DICHLOROETHANE-D4	118	%	1.0		

Report Notes: B

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETE NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP3932-14
SDG: BN15S9MW069
Report Date: 10/6/99
PO No. : 29600.47
Project: LTMP EVENT 15
% Solids: N/A
Method: EPA 8260
Date Analyzed: 9/21/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN15S9-QS001	AQ	9/14/99	9/15/99	9/21/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	B1	ug/L	1.0	1.0	1.0
ACETONE	<5	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: B

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETE NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP3932-14
SDG: BN15S9MW069
Report Date: 10/6/99
PO No. : 29600.47
Project: LTMP EVENT 15
% Solids: N/A
Method: EPA 8260
Date Analyzed: 9/21/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN15S9-QS001	AQ	9/14/99	9/15/99	9/21/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	117	%	1.0		
TOLUENE-D8	110	%	1.0		
P-BROMOFLUOROBENZENE	94	%	1.0		
1,2-DICHLOROETHANE-D4	116	%	1.0		

Report Notes: B

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETE NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP3980-12
SDG: BN15S1SW04
Report Date: 10/12/99
PO No. : 29600.47
Project: LTMP EVENT 15
% Solids: N/A
Method: EPA 8260
Date Analyzed: 9/24/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN15S1QD001	AQ	9/14/99	9/17/99	9/24/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	<1	ug/L	1.0	1.0	1.0
ACETONE	<5	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETE NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP3980-12
SDG: BN15S1SW04
Report Date: 10/12/99
PO No. : 29600.47
Project: LTMP EVENT 15
% Solids: N/A
Method: EPA 8260
Date Analyzed: 9/24/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN15S1QD001	AQ	9/14/99	9/17/99	9/24/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	126	%	1.0		
TOLUENE-D8	113	%	1.0		
P-BROMOFLUOROBENZENE	96	%	1.0		
1,2-DICHLOROETHANE-D4	124	%	1.0		

Report Notes:

Appendix C.2

Surface Water Samples
Site 9

APPENDIX C.2

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

Sample Designation	Sample Station
Surface Water Samples	
S9-SW010	SW-010
Trip Blank	
EP-QT004	QT-004
Equipment Rinsate Blank	
S9-QS004	QS-004
Source Water Blank	
S1-QD001	QD-001

Katahdin ANALYTICAL SERVICES

340 County Road No. 5
P.O. Box 720
Westbrook, ME 04098
Tel: (207) 874-2400
Fax: (207) 775-4029

CHAIN of CUSTODY

PLEASE PRINT IN PEN

Page ____ of ____

Client: EA Engineering
Contact: Pete Nimmer
Phone #: (914) 565 8100
Fax #: (914) 565 8203
Address: 3 Washington Center
City: Newburgh
State: NY
Zip Code: 12550
Purchase Order #:
Proj. Name / No.: LTMP Event 15
Katahdin Quote #:
Bill (if different than above):
Address:
Sampler (Print / Sign):
Copies To: See Comments

LAB USE ONLY
WORK ORDER #: WP3984 -
KATAHDIN PROJECT MANAGER:

REMARKS:

SHIPPING INFO: ☐ FED EX ☐ UPS ☐ CLIENT
AIRBILL NO:
TEMP°C ____ ☐ TEMP BLANK ☐ INTACT ☐ NOT INTACT

ANALYSIS AND CONTAINER TYPE PRESERVATIVES

r	Sample Description	Date / Time coll'd	Matrix	No. of Cntrs.	Filt. ☐Y☒N VOC 8260 VOAs w/ HCL	Filt. ☐Y☒N VOC by 8260 VOAs w/ Na_2SO_3	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N
	BN15EPEW01	9-15-99 / 1430	W	3	X									
	BN15EPEW02	9-15-99 / 1415	W	3	X									
	BN15EPEW02A	9-15-99 / 1425	W	3	X									
	BN15EPEW04	9-15-99 / 1350	W	3	X									
	BN15EPEW05	9-15-99 / 1400	W	3	X									
	BN15EPTP001	9-15-99 / 1500	W	3	X									
	MS/MSD BN15EPTE002	9-15-99 / 1530	W	9		X	Samples not preserved w/ HCL							
	BN15EPTEXD1	9-15-99 / —	W	3		X	Sample not preserved w/ HCL							
	BN15EPGT004	9-15-99 / 1600	W	3	X									
		/												
		/												
		/												
		/												
		/												
		/												
		/												

COMMENTS Full Data package to Newburgh. Send forms 1s and COC to Sue Chase@ Brunswick
Samples Start and end SDG BN15EPEW01

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
[illegible]	9/17/99 1004	Shelley [illegible]			
Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)

Katahdin ANALYTICAL SERVICES
340 County Road No. 5
P.O. Box 720
Westbrook, ME 04098
Tel: (207) 874-2400
Fax: (207) 775-4029

CHAIN of CUSTODY

PLEASE PRINT IN PEN

Page ____ of ____

Client: EA Engineering
Contact: Pete Nimmer
Phone #: (914) 565-8100
Fax #: (914) 5658[illegible]
Address: 3 Washington Center
City: Newburgh
State: NY
Zip Code: 12550
Purchase Order #:
Proj. Name / No.: LTMP Event 15
Katahdin Quote #:
Bill (if different than above):
Address:
Sampler (Print / Sign):
Copies To:

LAB USE ONLY
WORK ORDER #: WP3978 -*
KATAHDIN PROJECT MANAGER
REMARKS:
SHIPPING INFO: ☐ FED EX ☐ UPS ☐ CLIENT
AIRBILL NO:
TEMP°C ____ ☐ TEMP BLANK ☐ INTACT ☐ NOT INTACT

ANALYSIS AND CONTAINER TYPE PRESERVATIVES

*	Sample Description	Date / Time coll'd	Matrix	No. of Cntrs.	VOC 8260 VOA HCL	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐
✓	BN1559SW010	9-16-99/1225	W	3	X										
✓	MS/MSD BN1559LT901	9-16-99/1235	W	9	X										
✓	BN1559LTXD1	9-16-99/—	W	3	X										
✓	BN1559QS004	9-16-99/1155	W	3	X										
✓	BN1559QS005	9-16-99/1200	W	3	X										
		/													
		/													
		/													
		/													
		/													
		/													
		/													
		/													
		/													
		/													
		/													

COMMENTS: Full data package to Newburgh. Form I's + SOC to Sue Chase
All Samples SDG# BN1559SW010

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
[illegible]	9/17/99 1004	Shelby Wilkins			
Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)

Katahdin ANALYTICAL SERVICES
340 County Road No. 5
P.O. Box 720
Westbrook, ME 04098
Tel: (207) 874-2400
Fax: (207) 775-4029

CHAIN of CUSTODY

PLEASE PRINT IN PEN

Page ____ of ____

Client: EA Engineering
Contact: Pete Nimmer
Phone #: (914) 565 8100
Fax #: (914) 565820

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

Purchase Order #:
Proj. Name / No.: LTMP Event 15
Katahdin Quote #:

Bill (if different than above):
Address:

Sampler (Print / Sign):
Copies To:

LAB USE ONLY
WORK ORDER #: WP 3980
KATAHDIN PROJECT MANAGER:

REMARKS:

SHIPPING INFO: ☐ FED EX ☐ UPS ☐ CLIENT
AIRBILL NO:
TEMP°C ____ ☐ TEMP BLANK ☐ INTACT ☐ NOT INTACT

ANALYSIS AND CONTAINER TYPE PRESERVATIVES

*	Sample Description	Date / Time coll'd	Matrix	No. of Cntrs.	VOC 8260 Voa w/ HCL (Filt. ☐Y ☒N)	TAL metals 1L plastic w/ HNO3 (Filt. ☐Y ☒N)	TOC (Filt. ☐Y ☐N)	pesticides (Filt. ☐Y ☐N)	(Filt. ☐Y ☐N)	(Filt. ☐Y ☐N)	(Filt. ☐Y ☐N)	(Filt. ☐Y ☐N)	(Filt. ☐Y ☐N)	(Filt. ☐Y ☐N)
✓	BN15S1SW04	9-15-99/1355	W	4	X	X								
✓	BN15S1SW07	9-15-99/1315	W	4	X	X								
✓	MS/MSD BN15S1SW08	9-15-99/1200	W	118	X	X								
✓	BN15S1SW09	9-15-99/1122	W	4	X	X								
✓	BN15S1SWXD1	9-15-99/—	W	4	X	X								
✓	BN15S1QS002	9/14/99/1550	W	4	X	X								
✓	BN15S1QD001	9-14-99/1545	W	74	X	X	X	X						
✓	BN15S1QS003	9-14-99/1600	W	74	X	X	X	X						
✓	BN15S1LTSW01	9-15-99/1420	W	4	X	X								
✓	BN15S1LTSW03	9-15-99/1515	W	4	X	X								
✓	BN15S1LTSW04	9-15-99/1530	W	4	X	X								
✓	BN15S1LTSW02	9-15-99/1500	W	4	X	X								
	~~BN15S1LTSW06~~	~~9-15-99/~~	~~W~~	~~4~~	~~X~~	~~X~~								
	BN15S1LTSWXD2	9-15-99/—	W	4	X	X								
		/												
		/												

COMMENTS Full data package to Newburgh. Form Is and COC to Sue Chase @ Brunswick
all samples SDG # BN15S1SW04

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
[illegible]	9/15/99 1004	Shelley Webb			
Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETE NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP3978-1
SDG: BN15S9SW010
Report Date: 10/12/99
PO No. : 29600.47
Project: LTMP EVENT 15
% Solids: N/A
Method: EPA 8260
Date Analyzed: 9/24/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN15S9SW010	AQ	9/16/99	9/17/99	9/24/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	<1	ug/L	1.0	1.0	1.0
ACETONE	<5	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETE NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP3978-1
SDG: BN15S9SW010
Report Date: 10/12/99
PO No. : 29600.47
Project: LTMP EVENT 15
% Solids: N/A
Method: EPA 8260
Date Analyzed: 9/24/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN15S9SW010	AQ	9/16/99	9/17/99	9/24/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	116	%	1.0		
TOLUENE-D8	112	%	1.0		
P-BROMOFLUOROBENZENE	103	%	1.0		
1,2-DICHLOROETHANE-D4	107	%	1.0		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETE NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP3984-9
SDG: BN15EPEW01
Report Date: 10/15/99
PO No. : 29600.47
Project: LTMP EVENT 15
% Solids: N/A
Method: EPA 8260
Date Analyzed: 9/25/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN15EPQT004	AQ	9/15/99	9/17/99	9/25/99	JSS	5030	JSS

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	B2	ug/L	1.0	1.0	1.0
ACETONE	<5	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: B

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETE NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP3984-9
SDG: BN15EPEW01
Report Date: 10/15/99
PO No. : 29600.47
Project: LTMP EVENT 15
% Solids: N/A
Method: EPA 8260
Date Analyzed: 9/25/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN15EPQT004	AQ	9/15/99	9/17/99	9/25/99	JSS	5030	JSS

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	105	%	1.0		
TOLUENE-D8	102	%	1.0		
P-BROMOFLUOROBENZENE	100	%	1.0		
1,2-DICHLOROETHANE-D4	109	%	1.0		

Report Notes: B

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETE NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP3978-4
SDG: BN15S9SW010
Report Date: 10/12/99
PO No. : 29600.47
Project: LTMP EVENT 15
% Solids: N/A
Method: EPA 8260
Date Analyzed: 9/24/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN15S9QS004	AQ	9/16/99	9/17/99	9/24/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	<1	ug/L	1.0	1.0	1.0
ACETONE	<5	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETE NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP3978-4
SDG: BN15S9SW010
Report Date: 10/12/99
PO No. : 29600.47
Project: LTMP EVENT 15
% Solids: N/A
Method: EPA 8260
Date Analyzed: 9/24/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN15S9QS004	AQ	9/16/99	9/17/99	9/24/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	125	%	1.0		
TOLUENE-D8	111	%	1.0		
P-BROMOFLUOROBENZENE	99	%	1.0		
1,2-DICHLOROETHANE-D4	118	%	1.0		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETE NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP3980-12
SDG: BN15S1SW04
Report Date: 10/12/99
PO No. : 29600.47
Project: LTMP EVENT 15
% Solids: N/A
Method: EPA 8260
Date Analyzed: 9/24/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN15S1QD001	AQ	9/14/99	9/17/99	9/24/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	<1	ug/L	1.0	1.0	1.0
ACETONE	<5	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETE NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP3980-12
SDG: BN15S1SW04
Report Date: 10/12/99
PO No. : 29600.47
Project: LTMP EVENT 15
% Solids: N/A
Method: EPA 8260
Date Analyzed: 9/24/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN15S1QD001	AQ	9/14/99	9/17/99	9/24/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	126	%	1.0		
TOLUENE-D8	113	%	1.0		
P-BROMOFLUOROBENZENE	96	%	1.0		
1,2-DICHLOROETHANE-D4	124	%	1.0		

Report Notes:

Appendix C.3

Sediment Samples
Site 9

APPENDIX C.3

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

Sample Designation	Sample Station
Sediment Samples	
S9-SD010	SED-010
S9-SDXD1	SED-010 (DUP)
Trip Blank	
EP-QT004	QT-004
Equipment Rinsate Blank	
S9-QS005	QS-005
Source Water Blank	
S1-QD001	QD-001

Katahdin ANALYTICAL SERVICES
340 County Road No. 5
P.O. Box 720
Westbrook, ME 04098
Tel: (207) 874-2400
Fax: (207) 775-4029

CHAIN of CUSTODY

PLEASE PRINT IN PEN

Page ____ of ____

Client: EA Engineering
Contact: Pete Nimmer
Phone #: (914) 5658100
Fax #: (914) 5658203
Address: 3 Washington Center
City: Newburgh
State: NY
Zip Code: 12550
Purchase Order #:
Proj. Name / No.: LTMP Event 15
Katahdin Quote #:
Bill (if different than above):
Address:
Sampler (Print / Sign):
Copies To: See Comments

LAB USE ONLY
WORK ORDER #: WP3984 -
KATAHDIN PROJECT MANAGER:
REMARKS:
SHIPPING INFO: ☐ FED EX ☐ UPS ☐ CLIENT
AIRBILL NO:
TEMP°C: ☐ TEMP BLANK ☐ INTACT ☐ NOT INTACT

ANALYSIS AND CONTAINER TYPE PRESERVATIVES

Sample Description	Date / Time coll'd	Matrix	No. of Cntrs.	VOC 8260 VOAS w HCL (Filt. ☐Y ☒N)	VOC by 8260 VOAS w/ NA_2SO_3 (Filt. ☐Y ☒N)	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N
BN15EPEW01	9-15-99/1430	W	3	X									
BN15EPEW02	9-15-99/1415	W	3	X									
BN15EPEW02A	9-15-99/1425	W	3	X									
BN15EPEW04	9-15-99/1350	W	3	X									
BN15EPEW05	9-15-99/1400	W	3	X									
BN15EPTP001	9-15-99/1500	W	3	X									
MS/MSD BN15EPTE002	9-15-99/1530	W	9		X	Samples not preserved w/ HCL							
BN15EPTEXD1	9-15-99/—	W	3		X	Sample not preserved w/ HCL							
BN15EPQT004	9-15-99/1600	W	3	X									
	/												
	/												
	/												
	/												
	/												
	/												
	/												

COMMENTS Full Data package to Newburgh. Send Forms 1s and COC to Sue Chase @ Brunswick
Samples Start and end SDG BN15EPEW01

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
[illegible]	9/17/99 1004	Shelly [illegible]			
Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)

Katahdin ANALYTICAL SERVICES
340 County Road No. 5
P.O. Box 720
Westbrook, ME 04098
Tel: (207) 874-2400
Fax: (207) 775-4029

CHAIN of CUSTODY

PLEASE PRINT IN PEN

Page ____ of __

Client: EA Engineering
Contact: Pete Nimmer
Phone #: (914) 565-8100
Fax #: (914) 5658[illegible]

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

Purchase Order #:
Proj. Name / No.: LTMP Event 15
Katahdin Quote #:

Bill (if different than above):
Address:

Sampler (Print / Sign):
Copies To:

LAB USE ONLY
WORK ORDER #: WP3978 -*
KATAHDIN PROJECT MANAGER:

REMARKS:

SHIPPING INFO: ☐ FED EX ☐ UPS ☐ CLIENT
AIRBILL NO:
TEMP°C ____ ☐ TEMP BLANK ☐ INTACT ☐ NOT INTACT

ANALYSIS AND CONTAINER TYPE PRESERVATIVES

*	Sample Description	Date / Time coll'd	Matrix	No. of Cntrs.	VOC 8260 VOA HCL	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N
✓	BN1559SW010	9-16-99/1225	W	3	X										
✓	MS/MSD BN1559LT901	9-16-99/1235	W	9	X										
✓	BN1559LTXD1	9-16-99/—	W	3	X										
✓	BN1559QS004	9-16-99/1155	W	3	X										
✓	BN1559QS005	9-16-99/1200	W	3	X										
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		/													
		/													

COMMENTS: Full data package to Newburgh. Form I's + SOC to Sue Chase
All Samples SDG # BN1559SW010

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
[signature]	9/17/99 1004	Shelley Wilbur			
Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)

Katahdin ANALYTICAL SERVICES
340 County Road No. 5
P.O. Box 720
Westbrook, ME 04098
Tel: (207) 874-2400
Fax: (207) 775-4029

CHAIN of CUSTODY

PLEASE PRINT IN PEN

Page ____ of ____

Client: EA Engineering
Contact: Pete Nimmer
Phone #: (914) 565 8100
Fax #: (914) 565 8203
Address: 3 Washington Center
City: Newburgh
State: NY
Zip Code: 12550
Purchase Order #:
Proj. Name / No.: LTMP Event 15
Katahdin Quote #:
Bill (if different than above):
Address:
Sampler (Print / Sign):
Copies To:

LAB USE ONLY
WORK ORDER #: WP 3979 - *
KATAHDIN PROJECT MANAGER:
REMARKS:
SHIPPING INFO: ☐ FED EX ☐ UPS ☐ CLIENT
AIRBILL NO:
TEMP°C ____ ☐ TEMP BLANK ☐ INTACT ☐ NOT INTACT

ANALYSIS AND CONTAINER TYPE PRESERVATIVES

*	Sample Description	Date / Time coll'd	Matrix	No. of Cntrs.	VOC 8260	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N
✓	BN1559SD010	9-16-99 / 1220	Sed	2	X										
✓	BN1559SDXD1	9-16-99 / —	Sed	1	X										
		/													
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OMMENTS Full Data package to Newburgh. Form 1s TCOC to Sue Chase
All Samples SDG # BN1559SD010

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
[illegible]	9/17/99 1004	Shelley Wilkins			
Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETE NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP3979-1
SDG: BN15S9SD010
Report Date: 10/12/99
PO No. : 29600.47
Project: LTMP EVENT 15
% Solids: 68
Method: EPA 8260
Date Analyzed: 9/23/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN15S9SD010	SL	9/16/99	9/17/99	9/23/99	HMP	5030	HMP

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<3	ug/Kg	1.5	3	2.0
BROMOMETHANE	<3	ug/Kg	1.5	3	2.0
VINYL CHLORIDE	<3	ug/Kg	1.5	3	2.0
CHLOROETHANE	<3	ug/Kg	1.5	3	2.0
METHYLENE CHLORIDE	B5	ug/Kg	1.5	2	1.0
ACETONE	7	ug/Kg	1.5	7	5
CARBON DISULFIDE	<2	ug/Kg	1.5	2	1.0
1,1-DICHLOROETHENE	<2	ug/Kg	1.5	2	1.0
1,1-DICHLOROETHANE	<2	ug/Kg	1.5	2	1.0
TOTAL 1,2-DICHLOROETHENE	7	ug/Kg	1.5	2	1.0
CHLOROFORM	<2	ug/Kg	1.5	2	1.0
1,2-DICHLOROETHANE	<2	ug/Kg	1.5	2	1.0
2-BUTANONE	<7	ug/Kg	1.5	7	5
1,1,1-TRICHLOROETHANE	<2	ug/Kg	1.5	2	1.0
CARBON TETRACHLORIDE	<2	ug/Kg	1.5	2	1.0
BROMODICHLOROMETHANE	<2	ug/Kg	1.5	2	1.0
1,2-DICHLOROPROPANE	<2	ug/Kg	1.5	2	1.0
CIS-1,3-DICHLOROPROPENE	<2	ug/Kg	1.5	2	1.0
TRICHLOROETHENE	<2	ug/Kg	1.5	2	1.0
DIBROMOCHLOROMETHANE	<2	ug/Kg	1.5	2	1.0
1,1,2-TRICHLOROETHANE	<2	ug/Kg	1.5	2	1.0
BENZENE	<7	ug/Kg	1.5	7	5.0
TRANS-1,3-DICHLOROPROPENE	<2	ug/Kg	1.5	2	1.0
BROMOFORM	<2	ug/Kg	1.5	2	1.0
4-METHYL-2-PENTANONE	<4	ug/Kg	1.5	4	3
2-HEXANONE	<6	ug/Kg	1.5	6	4
TETRACHLOROETHENE	<2	ug/Kg	1.5	2	1.0
1,1,2,2-TETRACHLOROETHANE	<2	ug/Kg	1.5	2	1.0
TOLUENE	<7	ug/Kg	1.5	7	5.0
CHLOROBENZENE	<2	ug/Kg	1.5	2	1.0
ETHYLBENZENE	<7	ug/Kg	1.5	7	5.0
STYRENE	<2	ug/Kg	1.5	2	1.0
TOTAL XYLENES	<7	ug/Kg	1.5	7	5.0

Report Notes: B

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETE NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP3979-1
SDG: BN15S9SD010
Report Date: 10/12/99
PO No. : 29600.47
Project: LTMP EVENT 15
% Solids: 68
Method: EPA 8260
Date Analyzed: 9/23/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN15S9SD010	SL	9/16/99	9/17/99	9/23/99	HMP	5030	HMP

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<2	ug/Kg	1.5	2	1.0
1,3-DICHLOROBENZENE	<2	ug/Kg	1.5	2	1.0
1,4-DICHLOROBENZENE	<2	ug/Kg	1.5	2	1.0
DIBROMOFLUOROMETHANE	87	%	1.5		
TOLUENE-D8	77	%	1.5		
P-BROMOFLUOROBENZENE	66	%	1.5		
1,2-DICHLOROETHANE-D4	84	%	1.5		

Report Notes: B

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETE NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP3979-2
SDG: BN15S9SD010
Report Date: 10/12/99
PO No. : 29600.47
Project: LTMP EVENT 15
% Solids: 77
Method: EPA 8260
Date Analyzed: 9/23/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN15S9SDXD1	SL	9/16/99	9/17/99	9/23/99	HMP	5030	HMP

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<3	ug/Kg	1.3	3	2.0
BROMOMETHANE	<3	ug/Kg	1.3	3	2.0
VINYL CHLORIDE	<3	ug/Kg	1.3	3	2.0
CHLOROETHANE	<3	ug/Kg	1.3	3	2.0
METHYLENE CHLORIDE	B5	ug/Kg	1.3	1	1.0
ACETONE	9	ug/Kg	1.3	6	5
CARBON DISULFIDE	<1	ug/Kg	1.3	1	1.0
1,1-DICHLOROETHENE	<1	ug/Kg	1.3	1	1.0
1,1-DICHLOROETHANE	<1	ug/Kg	1.3	1	1.0
TOTAL 1,2-DICHLOROETHENE	7	ug/Kg	1.3	1	1.0
CHLOROFORM	<1	ug/Kg	1.3	1	1.0
1,2-DICHLOROETHANE	<1	ug/Kg	1.3	1	1.0
2-BUTANONE	<6	ug/Kg	1.3	6	5
1,1,1-TRICHLOROETHANE	<1	ug/Kg	1.3	1	1.0
CARBON TETRACHLORIDE	<1	ug/Kg	1.3	1	1.0
BROMODICHLOROMETHANE	<1	ug/Kg	1.3	1	1.0
1,2-DICHLOROPROPANE	<1	ug/Kg	1.3	1	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/Kg	1.3	1	1.0
TRICHLOROETHENE	<1	ug/Kg	1.3	1	1.0
DIBROMOCHLOROMETHANE	<1	ug/Kg	1.3	1	1.0
1,1,2-TRICHLOROETHANE	<1	ug/Kg	1.3	1	1.0
BENZENE	<6	ug/Kg	1.3	6	5.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/Kg	1.3	1	1.0
BROMOFORM	<1	ug/Kg	1.3	1	1.0
4-METHYL-2-PENTANONE	<4	ug/Kg	1.3	4	3
2-HEXANONE	<5	ug/Kg	1.3	5	4
TETRACHLOROETHENE	<1	ug/Kg	1.3	1	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/Kg	1.3	1	1.0
TOLUENE	<6	ug/Kg	1.3	6	5.0
CHLOROBENZENE	<1	ug/Kg	1.3	1	1.0
ETHYLBENZENE	<6	ug/Kg	1.3	6	5.0
STYRENE	<1	ug/Kg	1.3	1	1.0
TOTAL XYLENES	<6	ug/Kg	1.3	6	5.0

Report Notes: B, $

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETE NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP3979-2
SDG: BN15S9SD010
Report Date: 10/12/99
PO No. : 29600.47
Project: LTMP EVENT 15
% Solids: 77
Method: EPA 8260
Date Analyzed: 9/23/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN15S9SDXD1	SL	9/16/99	9/17/99	9/23/99	HMP	5030	HMP

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/Kg	1.3	1	1.0
1,3-DICHLOROBENZENE	<1	ug/Kg	1.3	1	1.0
1,4-DICHLOROBENZENE	<1	ug/Kg	1.3	1	1.0
DIBROMOFLUOROMETHANE	80	%	1.3		
TOLUENE-D8	75	%	1.3		
P-BROMOFLUOROBENZENE	$63	%	1.3		
1,2-DICHLOROETHANE-D4	81	%	1.3		

Report Notes: B, $

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETE NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP3978-5
SDG: BN15S9SW010
Report Date: 10/12/99
PO No. : 29600.47
Project: LTMP EVENT 15
% Solids: N/A
Method: EPA 8260
Date Analyzed: 9/24/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN15S9QS005	AQ	9/16/99	9/17/99	9/24/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	JB0.6	ug/L	1.0	1.0	1.0
ACETONE	<5	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: B, J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETE NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP3978-5
SDG: BN15S9SW010
Report Date: 10/12/99
PO No. : 29600.47
Project: LTMP EVENT 15
% Solids: N/A
Method: EPA 8260
Date Analyzed: 9/24/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN15S9QS005	AQ	9/16/99	9/17/99	9/24/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	128	%	1.0		
TOLUENE-D8	111	%	1.0		
P-BROMOFLUOROBENZENE	97	%	1.0		
1,2-DICHLOROETHANE-D4	122	%	1.0		

Report Notes: B, J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETE NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP3984-9
SDG: BN15EPEW01
Report Date: 10/15/99
PO No. : 29600.47
Project: LTMP EVENT 15
% Solids: N/A
Method: EPA 8260
Date Analyzed: 9/25/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN15EPQT004	AQ	9/15/99	9/17/99	9/25/99	JSS	5030	JSS

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	B2	ug/L	1.0	1.0	1.0
ACETONE	<5	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: B

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETE NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP3984-9
SDG: BN15EPEW01
Report Date: 10/15/99
PO No. : 29600.47
Project: LTMP EVENT 15
% Solids: N/A
Method: EPA 8260
Date Analyzed: 9/25/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN15EPQT004	AQ	9/15/99	9/17/99	9/25/99	JSS	5030	JSS

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	105	%	1.0		
TOLUENE-D8	102	%	1.0		
P-BROMOFLUOROBENZENE	100	%	1.0		
1,2-DICHLOROETHANE-D4	109	%	1.0		

rt Notes: B

0000025

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETE NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP3980-12
SDG: BN15S1SW04
Report Date: 10/12/99
PO No. : 29600.47
Project: LTMP EVENT 15
% Solids: N/A
Method: EPA 8260
Date Analyzed: 9/24/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN15S1QD001	AQ	9/14/99	9/17/99	9/24/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	<1	ug/L	1.0	1.0	1.0
ACETONE	<5	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETE NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP3980-12
SDG: BN15S1SW04
Report Date: 10/12/99
PO No. : 29600.47
Project: LTMP EVENT 15
% Solids: N/A
Method: EPA 8260
Date Analyzed: 9/24/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN15S1QD001	AQ	9/14/99	9/17/99	9/24/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	126	%	1.0		
TOLUENE-D8	113	%	1.0		
P-BROMOFLUOROBENZENE	96	%	1.0		
1,2-DICHLOROETHANE-D4	124	%	1.0		

Report Notes:

Appendix C.4

MS/MSD Recovery Reports

APPENDIX C.4

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

Sample Designation	Sample Station
LT-901 (Seep) Samples	
S9-LT901	LT-901
S9-LTXD1	LT-901 (DUP)
Trip Blank	
EP-QT004	QT-004
Equipment Rinsate Blanks	
S9-QS004	QS-004
Source Water Blank	
S1-QD001	QD-001

Katahdin ANALYTICAL SERVICES
540 County Road No. 5
P.O. Box 720
Westbrook, ME 04098
Tel: (207) 874-2400
Fax: (207) 775-4029

CHAIN of CUSTODY

PLEASE PRINT IN PEN

Page ____ of ____

Client: EA Engineering
Contact: Pete Nimmer
Phone #: (914) 565 8100
Fax #: (914) 565 8203
Address: 3 Washington Center
City: Newburgh
State: NY
Zip Code: 12550
Purchase Order #:
Proj. Name / No.: LTMP Event 15
Katahdin Quote #:
Bill (if different than above):
Address:
Sampler (Print / Sign):
Copies To: See Comments

LAB USE ONLY
WORK ORDER #: WP3984
KATAHDIN PROJECT MANAGER:
REMARKS:
SHIPPING INFO: ☐ FED EX ☐ UPS ☐ CLIENT
AIRBILL NO:
TEMP°C ____ ☐ TEMP BLANK ☐ INTACT ☐ NOT INTACT

ANALYSIS AND CONTAINER TYPE PRESERVATIVES

Sample Description	Date / Time coll'd	Matrix	No. of Cntrs.	VOC 8260 VOMS w/ HCL	VOC by 8260 VOMS w/ NA_2SO_3	Filt. ☐Y ☒N	Filt. ☐Y ☒N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N
BN15EPEW01	9-15-99/1430	W	3	X											
BN15EPEW02	9-15-99/1415	W	3	X											
BN15EPEW02A	9-15-99/1425	W	3	X											
BN15EPEW04	9-15-99/1350	W	3	X											
BN15EPEW05	9-15-99/1400	W	3	X											
BN15EP TP001	9-15-99/1500	W	3	X											
MS/MSD BN15EP TE002	9-15-99/1530	W	9		X	Samples not preserved w/ HCL									
BN15EPTEXD1	9-15-99/—	W	3		X	Sample not preserved w/ HCL									
BN15EPGT004	9-15-99/1600	W	3	X											
	/														
	/														
	/														
	/														
	/														
	/														
	/														

COMMENTS Full Data package to Newburgh, send forms 1s and COC to Sue Chase @ Brunswick
Samples Start analond SDG BN15EPEW01

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
[illegible]	9/17/99 1004	Shelly [illegible]			
Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)

Katahdin ANALYTICAL SERVICES
340 County Road No. 5
P.O. Box 720
Westbrook, ME 04098
Tel: (207) 874-2400
Fax: (207) 775-4029

CHAIN of CUSTODY

PLEASE PRINT IN PEN

Page ____ of ____

Client: EA Engineering
Contact: Pete Nimmer
Phone #: (914) 565-8100
Fax #: (914) 565-8[illegible]3
Address: 3 Washington Center
City: Newburgh
State: NY
Zip Code: 12550
Purchase Order #:
Proj. Name / No.: LTMP Event 15
Katahdin Quote #:
Bill (if different than above):
Address:
Sampler (Print / Sign):
Copies To:

LAB USE ONLY
WORK ORDER #: WP3978 -
KATAHDIN PROJECT MANAGER:
REMARKS:
SHIPPING INFO: ☐ FED EX ☐ UPS ☐ CLIENT
AIRBILL NO:
TEMP°C ____ ☐ TEMP BLANK ☐ INTACT ☐ NOT INTACT

ANALYSIS AND CONTAINER TYPE PRESERVATIVES

*	Sample Description	Date / Time coll'd	Matrix	No. of Cntrs.	VOC 8260 VOA HCL	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N
✓	BN1559SW010	9-16-99/1225	W	3	X										
✓	MS/MSD BN1559LT901	9-16-99/1235	W	9	X										
✓	BN1559LTXD1	9-16-99/—	W	3	X										
✓	BN1559QS004	9-16-99/1155	W	3	X										
✓	BN1559QS005	9-16-99/1200	W	3	X										
		/													
		/													
		/													
		/													
		/													
		/													
		/													
		/													
		/													
		/													
		/													

COMMENTS: Full data package to Newburgh. Form I's + EDD to Sue Chase
All Samples SDG# BN1559SW010

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
[illegible]	9/17/99 1004	Shelby Wilbur			
Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)

Katahdin ANALYTICAL SERVICES
347 County Road No. 5
P.O. Box 720
Westbrook, ME 04098
Tel: (207) 874-2400
Fax: (207) 775-4029

CHAIN of CUSTODY

PLEASE PRINT IN PEN

Page ____ of ____

Client: EA Engineering
Contact: Pete Nimmer
Phone #: (914) 565 8100
Fax #: (914) 565 8202
Address: 3 Washington Center
City: Newburgh
State: NY
Zip Code: 12550
Purchase Order #:
Proj. Name / No.: LTMP Event 15
Katahdin Quote #:
Bill (if different than above):
Address:
Sampler (Print / Sign):
Copies To:

LAB USE ONLY
WORK ORDER #: WP 3980
KATAHDIN PROJECT MANAGER:
REMARKS:
SHIPPING INFO: ☐ FED EX ☐ UPS ☐ CLIENT
AIRBILL NO:
TEMP°C ____ ☐ TEMP BLANK ☐ INTACT ☐ NOT INTACT

ANALYSIS AND CONTAINER TYPE PRESERVATIVES

*	Sample Description	Date / Time coll'd	Matrix	No. of Cntrs.	Filt. ☐Y☒N VOC 8260 VOA w/ HCL	Filt. ☐Y☒N TAL metals 1L plastic w/ HNO3	Filt. ☐Y☐N TOC	Filt. ☐Y☐N pesticides	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N
✓	BN15S1SW04	9-15-99/1355	W	4	X	X								
✓	BN15S1SW07	9-15-99/1315	W	4	X	X								
✓	MS/MSD BN15S1SW08	9-15-99/1200	W	11~~8~~	X	X								
✓	BN15S1SW09	9-15-99/1122	W	4	X	X								
✓	BN15S1SWXD1	9-15-99/—	W	4	X	X								
✓	BN15S1QS002	9/14/99/1550	W	4	X	X								
✓	BN15S1QD001	9-14-99/1545	W	7~~4~~	X	X	X	X						
✓	BN15S1QS003	9-14-99/1600	W	7~~4~~	X	X	X	X						
✓	BN15S1LTSW01	9-15-99/1420	W	4	X	X								
✓	BN15S1LTSW03	9-15-99/1515	W	4	X	X								
✓	BN15S1LTSW04	9-15-99/1530	W	4	X	X								
✓	BN15S1LTSW02	9-15-99/1500	W	4	X	X								
	~~BN15S1LTSW06~~	~~9-15-99/~~	~~W~~	~~4~~	~~X~~	~~X~~								
	BN15S1LTSWXD2	9-15-99/—	W	4	X	X								
		/												
		/												

COMMENTS Full data package to Newburgh. Form Is and COC to Sue Chase @ Brunswick
all samples SDG # BN15S1SW04

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
[signature]	9/14/99 1004	Shelley Webb			
Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETE NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP3978-2
SDG: BN15S9SW010
Report Date: 10/12/99
PO No. : 29600.47
Project: LTMP EVENT 15
% Solids: N/A
Method: EPA 8260
Date Analyzed: 9/24/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN15S9LT901	AQ	9/16/99	9/17/99	9/24/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	<1	ug/L	1.0	1.0	1.0
ACETONE	<5	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETE NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP3978-2
SDG: BN15S9SW010
Report Date: 10/12/99
PO No. : 29600.47
Project: LTMP EVENT 15
% Solids: N/A
Method: EPA 8260
Date Analyzed: 9/24/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN15S9LT901	AQ	9/16/99	9/17/99	9/24/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	120	%	1.0		
TOLUENE-D8	109	%	1.0		
P-BROMOFLUOROBENZENE	98	%	1.0		
1,2-DICHLOROETHANE-D4	116	%	1.0		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETE NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP3978-3
SDG: BN15S9SW010
Report Date: 10/12/99
PO No. : 29600.47
Project: LTMP EVENT 15
% Solids: N/A
Method: EPA 8260
Date Analyzed: 9/24/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN15S9LTXD1	AQ	9/16/99	9/17/99	9/24/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	<1	ug/L	1.0	1.0	1.0
ACETONE	<5	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETE NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP3978-3
SDG: BN15S9SW010
Report Date: 10/12/99
PO No. : 29600.47
Project: LTMP EVENT 15
% Solids: N/A
Method: EPA 8260
Date Analyzed: 9/24/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN15S9LTXD1	AQ	9/16/99	9/17/99	9/24/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	118	%	1.0		
TOLUENE-D8	110	%	1.0		
P-BROMOFLUOROBENZENE	98	%	1.0		
1,2-DICHLOROETHANE-D4	115	%	1.0		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETE NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP3984-9
SDG: BN15EPEW01
Report Date: 10/15/99
PO No. : 29600.47
Project: LTMP EVENT 15
% Solids: N/A
Method: EPA 8260
Date Analyzed: 9/25/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN15EPQT004	AQ	9/15/99	9/17/99	9/25/99	JSS	5030	JSS

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	B2	ug/L	1.0	1.0	1.0
ACETONE	<5	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: B

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETE NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP3984-9
SDG: BN15EPEW01
Report Date: 10/15/99
PO No. : 29600.47
Project: LTMP EVENT 15
% Solids: N/A
Method: EPA 8260
Date Analyzed: 9/25/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN15EPQT004	AQ	9/15/99	9/17/99	9/25/99	JSS	5030	JSS

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	105	%	1.0		
TOLUENE-D8	102	%	1.0		
P-BROMOFLUOROBENZENE	100	%	1.0		
1,2-DICHLOROETHANE-D4	109	%	1.0		

Report Notes: B

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETE NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP3978-4
SDG: BN15S9SW010
Report Date: 10/12/99
PO No. : 29600.47
Project: LTMP EVENT 15
% Solids: N/A
Method: EPA 8260
Date Analyzed: 9/24/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN15S9QS004	AQ	9/16/99	9/17/99	9/24/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	<1	ug/L	1.0	1.0	1.0
ACETONE	<5	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETE NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP3978-4
SDG: BN15S9SW010
Report Date: 10/12/99
PO No. : 29600.47
Project: LTMP EVENT 15
% Solids: N/A
Method: EPA 8260
Date Analyzed: 9/24/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN15S9QS004	AQ	9/16/99	9/17/99	9/24/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	125	%	1.0		
TOLUENE-D8	111	%	1.0		
P-BROMOFLUOROBENZENE	99	%	1.0		
1,2-DICHLOROETHANE-D4	118	%	1.0		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETE NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP3980-12
SDG: BN15S1SW04
Report Date: 10/12/99
PO No. : 29600.47
Project: LTMP EVENT 15
% Solids: N/A
Method: EPA 8260
Date Analyzed: 9/24/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN15S1QD001	AQ	9/14/99	9/17/99	9/24/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	<1	ug/L	1.0	1.0	1.0
ACETONE	<5	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: PETE NIMMER
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WP3980-12
SDG: BN15S1SW04
Report Date: 10/12/99
PO No. : 29600.47
Project: LTMP EVENT 15
% Solids: N/A
Method: EPA 8260
Date Analyzed: 9/24/99

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN15S1QD001	AQ	9/14/99	9/17/99	9/24/99	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	126	%	1.0		
TOLUENE-D8	113	%	1.0		
P-BROMOFLUOROBENZENE	96	%	1.0		
1,2-DICHLOROETHANE-D4	124	%	1.0		

Report Notes:

REPORT AND COMMENTS TRACKING FORM, LONG-TERM MONITORING PROGRAM
11/29/99

Report	Date Distributed	DEP	EPA	Lepage Environmental	Responses to Comments
ANNUAL REPORTS					
1997 Annual Reports					
DRAFT Sites 1 & 3 and Eastern Plume	26 JUN 1998	28 JAN 1999	3 MAR 1999		Responded in DRAFT 1998 Annual Report
FINAL Sites 1 & 3 and Eastern Plume	22 OCT 1999		28 OCT 1999		Response letter sent with 1997 Final Report
DRAFT Site 9	26 JUN 1998	28 AUG 1998	13 NOV 1998		Response letter sent with 1997 Final Report
FINAL Site 9	10 SEP 1999		28 OCT 1999		
DRAFT Building 95	26 JUN 1998	1 OCT 1998	22 SEP 1998		Response letter sent with 1997 Final Report
FINAL Building 95	10 SEP 1999		28 OCT 1999		
1998 Annual Reports					
DRAFT Site 9	13 APR 1999	21 JUN 1999	17 MAY 1999		
FINAL Site 9	19 AUG 1999		28 OCT 1999		
DRAFT Building 95	13 APR 1999	23 JUN 1999	17 MAY 1999		
FINAL Building 95	19 AUG 1999		28 OCT 1999		
DRAFT Sites 1 and 3 and Eastern Plume	24 MAY 1999	2 AUG 1999	29 AUG 1999		Response to comments priorities table received from EPA on 29 November 1999
MONITORING EVENT REPORTS					
Monitoring Event 10 (November 1997)					
Building 95 (August1998)	30 OCT 1998	5 MAR 1999	1 DEC 1998		Responded in 1998 Annual Report
Sites 1 & 3 and Eastern Plume	7 APR 1998	9 JUN 1998	18 MAR 1999		Responded in 1997 Annual Report
Site 9	7 APR 1998	11 JUN 1998	18 MAR 1999		Responded in 1997 Annual Report
Monitoring Event 11 (March 1998)					
Sites 1 & 3 and Eastern Plume	4 JUN 1998	14 AUG 1998	18 MAR 1999		Response sent with Monitoring Event 12 Report
Site 9	4 JUN 1998	19 AUG 1998	8 FEB 1998		DEP sent with ME 12 Report. Will respond to EPA in 1998 Annual Report
Monitoring Event 12 (July 1998)					
Sites 1 & 3 and Eastern Plume	30 OCT 1998	22 FEB 1999	19 MAR 1999		Responded in 1998 Annual Report
Site 9	30 OCT 1998	9 FEB 1999	8 FEB 1999		Responded in 1998 Annual Report
Monitoring Event 13 (November 1998)					
Site 9	16 MAR 1999	23 JUN 1999	14 APR 1999		
Sites 1 & 3 and Eastern Plume	16 MAR 1999	23 JUN 1999	21 APR 1999		
Monitoring Event 14 (April 1999)					
Site 9	18 JUN 1999		30 JUN 1999		
Sites 1 & 3 and Eastern Plume	18 JUN 1999	22 SEP 1999	28 JUL 1999		
OTHER REPORTS					
LTMP Revisions					
Sites 1 & 3 and Easter Plume - DRAFT	21 OCT 1998	17 DEC 1998	5 JAN 1999	22 DEC 1998	Will respond in next LTMP revision
Sites 1 & 3 and Easter Plume - DRAFT FINAL	4 JUN 1999	13 AUG 1999	25 JUN 1999		
Building 95 DRAFT	10 MAY 1999	20 JUL 1999	17 MAY 1999		
Site 9 - DRAFT	10 MAY 1999	30 JUN 1999	17 MAY 1999		
Site 9 - FINAL	16 AUG 1999	3 NOV 1999			
Site 2 - DRAFT	23 JUN 1999		9 JUL 1999	18 OCT 1999	
Summary Letter	16 MAR 1999	5 APR 1999	2 APR 1999		
LTMP Meeting Summary			18 MAR 1999		
Site 9 PRAP					
DRAFT FINAL	26 MAY 1999	4 JUN 1999	1 JUN 1999	15 JUN 1999	
FINAL	1 JUL 1999				
Site 9 Record Of Decision					
DRAFT	13 AUG 1999	27 AUG 1999	20 AUG 1999	29 AUG 1999	
DRAFT FINAL	10 SEP 1999	14 SEP 1999	14 SEP 1999	14 SEP 1999	
Geostatistical Assessment of the Eastern Plume					
DRAFT Geostatistical Assessment	18 FEB 1998	23 MAR 1998	24 MAY 1998	31 MAR 1998	Will respond with FINAL Geostatistical Report
1997 Bi-Monthly Monitoring Well Gauging Program - Building 95, Old Navy Fuel Farm and Site 7					
DRAFT 1997 Gauging Report	3 FEB 1998				
FINAL 1997 Gauging Report	20 AUG 1998	5 MAR 1999	22 SEP 1998		Will respond with 1998 Gauging Report
Monitoring Well Installation and Direct-Push Ground - Water Sampling OCT 13-30 1998					
FINAL Direct-Push Report	13 JAN 1999	28 JAN 1999	18 MAR 1999		Responded in 1998 Annual Report
Water Level Management					
Sites 1 & 3	24 JUL 1998	15 DEC 1998	27 NOV 1998	20 DEC 1998	Navy - 3 MAR 1998
Building 95 Closure (non-EA)					
DRAFT FINAL	AUG 1998	13 OCT 1998	22 SEP 1998		
Monthly Landfill Gauging					
Dec 1997 - Jan 1998		24 JUL 1998	18 DEC 1998		Will respond in FINAL LTMP Report
Technical Meeting Data Quality Objectives					
Meeting Summary of Decisions - DRAFT	APR 1998	24 JUL 1998	6 AUG 1998	27 JUL 1998	Responded on 15 October 1998
Meeting Summary of Decisions - Revised	13 OCT 1998				Addressed in LTMP
Meeting Summary of Decision - Revised	MAY 1998				
ARC View GIS Project					
NAS Brunswick (All Sites) Monitoring Events 1-13	9 AUG 1999				
Well Book Survey Data, Boring logs, and Well Construction Diagrams					
Well Book	30 SEP 1999		3 NOV 1999		
Project Schedule for NAS Brunswick					
Project Schedule	1 APR 1998		2 APR 1998		
NOTE: Grey areas indicate no comments received.					