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Monitoring Event 16 – April 2000
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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June 2000
296.0047.7616

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Alexander Easterday — 22 JUNE 2000

Alexander C. Easterday, P.G. — Date
CTO Manager

Robert S. Pace for — 22 June 2000

Robert S. Pace — Date
Program Manager

June 2000

QUALITY REVIEW STATEMENT

Contract No. N62472-92-D-1296 EA Project No.: 29600.47.7616
Contract Task Order No. 0047
Activity: Naval Air Station, Brunswick, Maine

Description of Report/Deliverable:

Monitoring Event 16 – April 2000, Site 9: Neptune Drive Disposal Site, Naval Air Station, Brunswick, Maine

EA CTO Manager: Alexander C. Easterday, 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

20 June 2000

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

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1. PROJECT ACTIVITIES AND MONITORING EVENT RESULTS

1.1 INTRODUCTION

Under Contract No. N62472-92-D-1296, Contract Task Order No. 0047, Northern Division, Naval Facilities Engineering Command contracted with EA Engineering, Science, and Technology to perform long-term monitoring at 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 16 was sampled in accordance with the Final Long-Term Monitoring Plan (EA 1999b).

This report provides results for the April 2000 monitoring event (Monitoring Event 16). Appendix A contains the laboratory analytical data summary tables. Appendix B provides field monitoring and sampling forms. Appendix C provides an analytical data quality review. Appendix D provides analytical report Form I data tables. Temporal trends and other observations based on data collected during bi-annual monitoring will be presented in the Annual Report for 2000.

1.2 MEASUREMENT OF WATER LEVEL ELEVATIONS

1.2.1 Gauging Activities

Water level measurements for Monitoring Event 16 were collected on 27 March 2000 at the 16 monitoring wells and 2 stream gauge stations as indicated in Table 1. The locations of site monitoring wells and gauging stations are provided on Figure 2. To collect data related to upgradient ground-water flow patterns, depth to ground water was measured (gauged) in 9 monitoring wells at the Navy Exchange Service Station on 27 March 2000. 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 27 March 2000 are provided in Table 2. Water level gauging data recorded at the Navy Exchange Service Station on 27 March 2000 are provided in Table 3. The Field Record of Well Gauging forms completed during the well gauging events are provided in Appendix B.

Figure 3 provides the ground-water potentiometric surface elevations and flow directions for Site 9 based on the March gauging data.

1.3 GROUND-WATER MONITORING, SAMPLING, AND ANALYSIS

1.3.1 Sampling Activities

The ground-water sampling program was completed on 11-12 April 2000 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. Ground-water samples were collected from each of the 12 wells at Site 9 sampled during the April 2000 sampling event using the low-flow sampling technique. Table 1 provides a summary of the wells sampled during Monitoring Event 16.

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., from approximately 0.2 L/minute to 0.5 L/minute). Well MW-NASB-071 was purged at 2 L/minute; however, the drawdown during purging was 0.05 ft, indicating that the well was not stressed during sampling. All Site 9 monitoring wells reached equilibrium with respect to water quality indicators prior to sampling. Reduced dissolved oxygen concentrations (<2.0 mg/L) were noted in samples from 9 monitoring wells, some as low as 0.00 mg/L. Elevated dissolved oxygen concentrations (>8 mg/L) were noted in samples from one monitoring well (MW-NASB-022). 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. 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 B.

Ten ground-water samples from Site 9 collected from monitoring wells were analyzed for Target Compound List (TCL) volatile organic compounds (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 by EPA Method 8270C and Target Analyte List (TAL) 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 Analytical Data

Tables A-1 and A-2 summarize the analytical data for the ground-water samples in Appendix A. Appendix D 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 11 April 2000 in accordance with the Final Long-Term Monitoring Plan (EA 1999b). Water quality indicator parameters for the surface water sample and leachate seep samples are summarized on Table 5.

Notable observations 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 and Eh concentrations were noticeably higher for the surface water and leachate seep sample collected for Monitoring Event 16 (April 2000) as opposed to those collected during Monitoring Event 15 (September 1999).

- Turbidity measurements were noticeably lower for the surface water and leachate seep sample collected for Monitoring Event 16 (April 2000) as opposed to those collected during Monitoring Event 15 (September 1999).

- pH was lower and conductivity was higher in surface water samples for Monitoring Event 16 than those observed during Monitoring Event 15.

Both the surface water sample (SW-010) and the leachate station seep sample (LT-901) were collected and analyzed for TCL VOCs by EPA Method 8260B. Table 1 provides a summary of the surface water and leachate station seep sampling program completed during Monitoring Event 16.

1.4.2 Analytical Data

Surface water sample results are summarized in Appendix Table A-3. Leachate seep sample results are summarized in Appendix Table A-4. Appendix D contains the Form I 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 11 April 2000 in accordance with the Final Long-Term Monitoring Plan (EA 1999b). The stream sediment sample (SED-010) was collected and analyzed for TCL VOCs by EPA Method 8260B. Table 1 provides a summary of the stream sediment sampling program completed during Monitoring Event 16.

1.5.2 Analytical Data

Appendix Table A-5 summarizes analytical results for the stream sediment sample. Appendix D contains the Form I 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 11 April 2000 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. Stream gauge SG-1A was not present during Monitoring Event 16, therefore, the water level was not measured at SG-1A. The gauge will be replaced prior to Monitoring Event 17 in September 2000. 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 16 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, comparability, and data quality objective requirements. A complete summary of the analytical data quality review is provided in Appendix C. Method detection limits for solid and aqueous media are included in Appendix C. 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). Notable findings of the selected analytical data quality review include:

- The positive methylene chloride detection in 4 samples (QS-001, QS-002, SED-010, and SED-010 DUP) should be considered false-positive due to method blank contamination.

- The positive acetone detection in 2 samples (SED-010 and SED-010 DUP) should be considered false-positive due to method blank contamination.

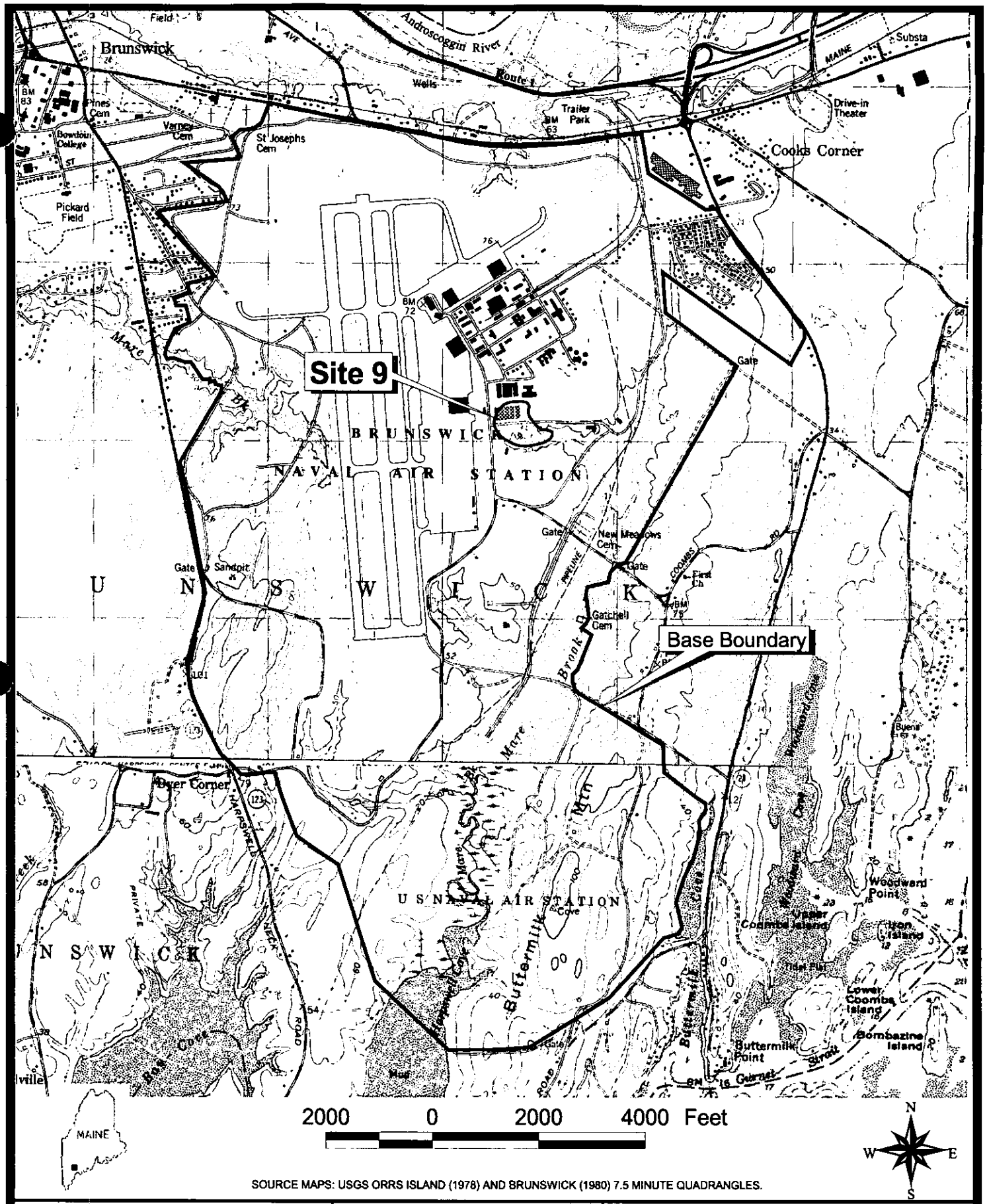
- The positive acetone detection in sample LT-901 should be considered false-positive due to trip blank contamination.

- Total 1,2-dichloroethene detected concentration in sample MW-NASB-069 should be considered as an estimated value due to the exceedance of field precision criteria.

- Total 1,2-dichloroethene and trichloroethene concentrations in sample SED-010 should be considered as estimated values due to the exceedances of field precision criteria.

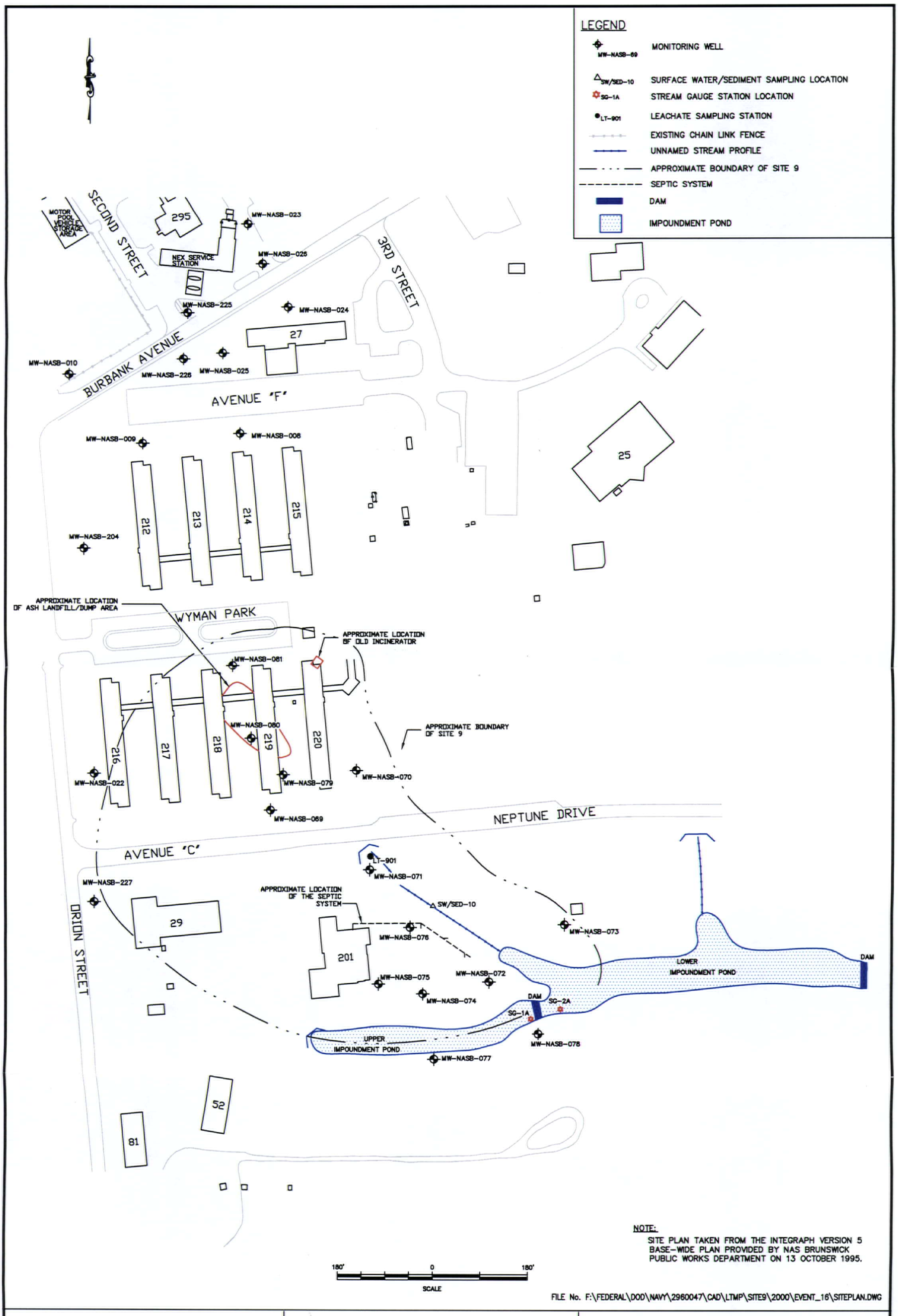
The results for acetone and trichloroethene should be considered estimated in sample SED-010 due to relative percent difference exceedances.

The non-detected results for 1,4-dichlorobenzene, 1,1,1-trichloroethane, benzene, 4-methyl-2-pentanone, 2-hexanone, carbon disulfide, 2-butanone, carbon tetrachloride, 1,3-dichlorobenzene, 1,2-dichlorobenzene, 1,1-dichloroethene, 1,1-dichloroethane, 1,1,2-trichloroethane, 1,1,2,2-tetrachloroethane, 2-chloroethylvinylether, styrene, vinyl acetate, trichlorofluoromethane, total xylenes, total 1,2-dichloroethene, toluene, bromomethane, tetrachloroethene, vinyl chloride, ethylbenzene, *cis*-1,3-dichloropropene, chloromethane, chloroform, chloroethane, chlorobenzene, and tetrahydrofuran should be considered estimated in Sample SED-010 due to relative percent difference exceedances.



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

EA ENGINEERING, SCIENCE, AND TECHNOLOGY	NAVAL AIR STATION BRUNSWICK, MAINE	FIGURE I 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	18 FEB. 2000	29600.47	I:\NASB_GIS \NAVY.APR



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

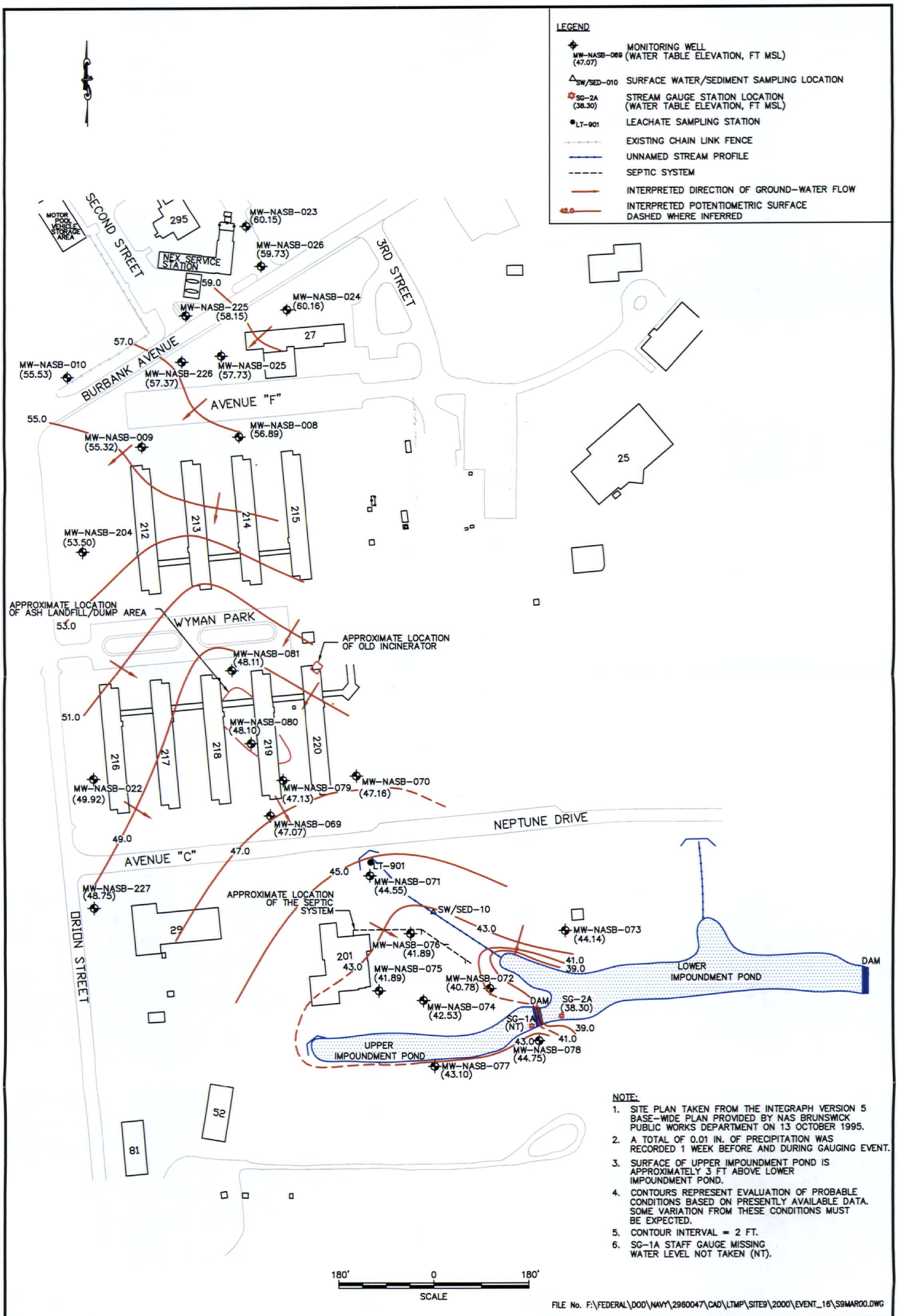
FILE No. F:\FEDERAL\DOD\NAVY\2960047\CAD\LTMP\SITE9\2000\EVENT_16\SITEPLAN.DWG

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.
AE	SAP	SAP	SYC	1"=180'	30 MAY 2000	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 0.01 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.
6. SG-1A STAFF GAUGE MISSING WATER LEVEL NOT TAKEN (NT).

FILE No. F:\FEDERAL\DOD\NAVY\2960047\CAD\LTMP\SITE9\2000\EVENT_16\S9MAR00.DWG

EA ENGINEERING, SCIENCE, AND TECHNOLOGY

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

FIGURE 3
INTERPRETED POTENTIOMETRIC SURFACE ELEVATIONS, 27 MARCH 2000 WELL GAUGING DATA

PROJECT MGR	DESIGNED BY	DRAWN BY	CHECKED BY	SCALE	DATE	PROJECT NO	FILE No.
AE	SAP	SAP	SYC	AS SHOWN	14 JUNE 2000	29600.47	S9MAR00

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

Well Designation	Previous Well Designation	Monitoring Frequency	Sample Parameters			Monitoring Event 16	
			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 16	
		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) Well will be sampled and analyzed for semivolatile organic compounds by EPA Method 8270C.
(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.

NOTE: TCL = Target Compound List; VOC = Volatile organic compounds; TAL = Target Analyte List; NR = Procedure not required; EPA = U.S. Environmental Protection Agency.

TABLE 2 MONITORING WELL GAUGING SUMMARY, SITE 9
27 MARCH 2000

Well Designation	Previous Well Designation	Top of Well Riser Elevation (ft MSL)	Depth to Well Bottom (ft below top of PVC Riser)	Depth to Water (ft below top of PVC riser)	Water Table Elevations (ft MSL)
MW-NASB-069	MW-901	57.35	42.42	10.28	47.07
MW-NASB-070	MW-902	58.26	27.32	11.10	47.16
MW-NASB-071	MW-903	46.25	21.54	1.70	44.55
MW-NASB-072	MW-904	49.81	14.63	9.03	40.78
MW-NASB-073	MW-905	51.71	32.12	7.57	44.14
MW-NASB-074	MW-906	51.68	27.12	9.15	42.53
MW-NASB-075	MW-907	54.91	21.22	13.02	41.89
MW-NASB-076	MW-908	52.79	19.94	10.90	41.89
MW-NASB-077	MW-909	58.89	37.29	15.79	43.10
MW-NASB-078	MW-910	53.74	14.93	8.99	44.75
MW-NASB-079	MW-914	58.15	18.92	11.02	47.13
MW-NASB-080	MW-915	58.51	19.04	10.41	48.10
MW-NASB-081	MW-916	58.22	18.85	10.11	48.11
MW-NASB-022	None	59.52	17.97	9.60	49.92
MW-NASB-204	None	62.09	17.93	8.59	53.50
MW-NASB-227	None	58.39	40.60	9.64	48.75
Stream Gauging Station					
SG-1A	None	37.43[a]	NA	No data[b]	No data
SG-2A	None	34.41[a]	NA	3.89	38.30

(a) Measurement from surveyed point on staff gauge. Zero mark on the staff gauge is the measured elevation.
(b) Staff gauge was found missing during the March 2000 gauging event. The staff gauge will be replaced prior to Monitoring Event 17.

NOTE: MSL = Mean sea level; PVC = polyvinyl chloride; NA = not applicable.

TABLE 3 MONITORING WELL GAUGING SUMMARY
NAVY EXCHANGE SERVICE STATION
27 MARCH 2000

Well Designation	Top of Well Riser Elevation (ft MSL)	Depth to Well Bottom (ft below top of PVC Riser)	Depth to Water (ft below top of PVC riser)	Water Table Elevations (ft MSL)
MW-NASB-8	59.22	13.15	2.33	56.89
MW-NASB-9	59.00	11.50	3.68	55.32
MW-NASB-10	62.03	12.40	6.50	55.53
MW-NASB-23	67.29	21.90	7.14	60.15
MW-NASB-24	65.31	13.15	5.15	60.16
MW-NASB-25	64.34	14.70	6.61	57.73
MW-NASB-26	66.61	12.55	6.88	59.73
MW-NASB-225	64.61	14.31	6.46	58.15
MW-NASB-226	62.22	12.68	4.85	57.37

NOTE: MSL = Mean sea level.
Monitoring wells listed on this table are not part of Site 9.
Water elevations were collected at the Navy Exchange Service Station wells to provide data upgradient of Site 9.

TABLE 4 SUMMARY OF WATER QUALITY INDICATOR PARAMETERS MEASURED IN GROUND-WATER SAMPLES COLLECTED ON 11-12 APRIL 2000 AT SITE 9

Well Designation	Previous Well Designation	pH	Temperature (°C)	Conductivity (µmhos/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	Eh (mV)
MW-NASB-069	MW-901	5.80	16.00	343	0.08	3	113
MW-NASB-070	MW-902	5.32	12.76	107	1.69	1	91
MW-NASB-071	MW-903	5.85	13.68	262	0.24	2	26
MW-NASB-072	MW-904	6.06	8.56	94	3.14	8	135
MW-NASB-074	MW-906	6.24	13.93	292	0.28	5	39
MW-NASB-075	MW-907	5.80	16.54	291	1.26	1	116
MW-NASB-076	MW-908	5.91	18.83	310	0.77	0	20
MW-NASB-077	MW-909	5.53	11.28	43	4.71	6	135
MW-NASB-079	MW-914	6.51	14.66	208	0.70	1	-91
MW-NASB-080	MW-915	6.24	12.72	277	2.12	1	21
MW-NASB-022	None	5.46	9.56	93	9.94	6	140
MW-NASB-227	None	5.68	13.70	263	0.16	1	87

NOTE: NTU = Nephelometric turbidity unit.

TABLE 5 SUMMARY OF WATER QUALITY INDICATOR PARAMETERS MEASURED IN SURFACE WATER AND LEACHATE SEEP SAMPLES COLLECTED ON 11 APRIL 2000 AT SITE 9

Sample Designation	pH	Temperature (°C)	Conductivity (μmhos/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	Eh (mV)
Surface Water						
SW-010	6.60	9.81	293	10.79	6	108
Leachate Seep						
LT-901	6.46	9.39	208	7.36	36	66

NOTE: NTU = Nephelometric turbidity unit.

REFERENCES

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Appendix A

Laboratory Analytical Data Summary Tables

TABLE A-1 SUMMARY OF GROUND-WATER SAMPLES COLLECTED FROM SITE 9 BETWEEN 11 AND 12 APRIL 2000
VOLATILE ORGANIC COMPOUNDS BY U.S. ENVIRONMENTAL PROTECTION AGENCY METHOD 8260B

			MW-NASB-022	MW-NASB-069	MW-NASB-069 (Dup)	MW-NASB-071	MW-NASB-072
			Ground Water	Ground Water	Ground Water	Ground Water	Ground Water
			Low-flow Sample	Low-flow Sample	Low-flow Sample	Low-flow Sample	Low-flow Sample
Compound/Element	**MEG**	**MCL**					
1,1-Dichloroethane	70	---	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)
1,2-Dichloroethene, Total	70	70	(<1U)	49	51	(<1U)	(<1U)
Chloroform	---	100	(<1U)	(<1U)	(<1U)	2	(<1U)
Ethylbenzene	700	700	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)
Tetrachloroethene	3	5	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)
Toluene	1,400	1,000	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)
Trichloroethene	5	5	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)
Vinyl Chloride	0.15	2	(<2U)	**55**	**53**	(<2U)	(<2U)
Xylenes, Total	600	10,000	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)

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

NOTE:
Units are micrograms per liter (µg/L).
U = Not detected. Sample quantitation limits are shown as (<____U).
J = Estimated concentration.
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 highlighted with gray and bold type denote exceedance of MEG or MCL.
Monitoring well MW-NASB-077 was analyzed using EPA Method 8260B Modified for Selected Ion Mass.
Trip blank QT-001 results for EPA Method 8260B were non-detect, except for methylene chloride and acetone, which were detected at a concentrations of 1B µg/L and 3J µg/L, respectively. Equipment rinsate blanks QS-001 and QS-002 results for EPA Method 8260B were non-detect, except for methylene chloride, which was detected at a concentrations of 0.5JB µg/L and 0.7JB µg/L.

TABLE A-1, CONTINUED

			MW-NASB-074	MW-NASB-075	MW-NASB-076	MW-NASB-077	MW-NASB-077 (Dup)
			Ground Water	Ground Water	Ground Water	Ground Water	Ground Water
			Low-flow Sample	Low-flow Sample	Low-flow Sample	Low-flow Sample	Low-flow Sample
Compound/Element	**MEG**	**MCL**					
1,1-Dichloroethane	70	---	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)
1,2-Dichloroethene, Total	70	70	2	(<1U)	2	(<1U)	(<1U)
Chloroform	---	100	0.5J	(<1U)	(<1U)	(<1U)	(<1U)
Ethylbenzene	700	700	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)
Tetrachloroethene	3	5	0.7J	(<1U)	(<1U)	(<1U)	(<1U)
Toluene	1,400	1,000	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)
Trichloroethene	5	5	2	(<1U)	(<1U)	(<1U)	(<1U)
Vinyl Chloride	0.15	2	(<2U)	(<2U)	**3**	(<0.15U)	(<2U)
Xylenes, Total	600	10,000	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)

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

NOTE:
Units are micrograms per liter (µg/L).
U = Not detected. Sample quantitation limits are shown as (<____U).
J = Estimated concentration.
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 highlighted with gray and bold type denote exceedance of MEG or MCL.
Monitoring well MW-NASB-077 was analyzed using EPA Method 8260B Modified for Selected Ion Mass.
Trip blank QT-001 results for EPA Method 8260B were non-detect, except for methylene chloride and acetone, which were detected at a concentrations of 1B µg/L and 3J µg/L, respectively. Equipment rinsate blanks QS-001 and QS-002 results for EPA Method 8260B were non-detect, except for methylene chloride, which was detected at a concentrations of 0.5JB µg/L and 0.7JB µg/L.

TABLE A-1, CONTINUED

			MW-NASB-080	MW-NASB-227
			Ground Water	Ground Water
			Low-flow Sample	Low-flow Sample
Compound/Element	**MEG**	**MCL**		
1,1-Dichloroethane	70	---	(<1U)	(<1U)
1,2-Dichloroethene, Total	70	70	(<1U)	2
Chloroform	---	100	(<1U)	(<1U)
Ethylbenzene	700	700	(<1U)	(<1U)
Tetrachloroethene	3	5	(<1U)	0.7J
Toluene	1,400	1,000	(<1U)	(<1U)
Trichloroethene	5	5	(<1U)	3
Vinyl Chloride	0.15	2	(<2U)	(<2U)
Xylenes, Total	600	10,000	(<1U)	(<1U)

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

NOTE:
Units are micrograms per liter (µg/L).
U = Not detected. Sample quantitation limits are shown as (<____U).
J = Estimated concentration.
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 highlighted with gray and bold type denote exceedance of MEG or MCL.
Monitoring well MW-NASB-077 was analyzed using EPA Method 8260B Modified for Selected Ion Mass.
Trip blank QT-001 results for EPA Method 8260B were non-detect, except for methylene chloride and acetone, which were detected at a concentrations of 1B µg/L and 3J µg/L, respectively. Equipment rinsate blanks QS-001 and QS-002 results for EPA Method 8260B were non-detect, except for methylene chloride, which was detected at a concentrations of 0.5JB µg/L and 0.7JB µg/L.

TABLE A-2 SUMMARY OF GROUND-WATER SAMPLES COLLECTED FROM SITE 9 BETWEEN 11 AND 12 APRIL 2000
TARGET ANALYTE LIST ELEMENTS BY U.S. ENVIRONMENTAL PROTECTION AGENCY 6000/7000 SERIES METHODS

			MW-NASB-069	MW-NASB-069 (Dup)	MW-NASB-070
			Ground Water	Ground Water	Ground Water
			Low-flow Sample	Low-flow Sample	Low-flow Sample
Compound/Element	**MEG**	**MCL**			
Aluminum	1,430	200	51.4B*	79B*	75.4B*
Barium	1,500	2,000	9.6	9.6	9.1
Beryllium	---	4	0.82B*	0.78B*	(<0.56U)
Cadmium	5	5	2.6B*	(<2.61U)	(<2.61U)
Calcium	---	---	8,110	8,370	8,440
Chromium	100	100	9.9B*	(<4.02U)	6.7B*
Iron	---	300	161	170	51.6
Magnesium	---	---	3,110	3,200	817
Manganese	200	50	**703**	**719**	**179**
Mercury	2	2	(<0.02U)	(<0.02U)	0.03B*
Potassium	---	---	2,240	2,410	1,100
Sodium	---	---	71,200	73,800	8,760
Thallium	0.4	2	**4.6B***	(<3.28U)	(<3.28U)
Vanadium	---	---	(<4.01U)	4B*	4B*
Zinc	---	5,000	11B*	10.8B*	8.5B*

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

NOTE:
Units are micrograms per liter (µg/L).
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 highlighted with gray and bold type denote exceedance of MEG or MCL.

TABLE A-2, CONTINUED

			MW-NASB-079
			Ground Water
			Low-flow Sample
Compound/Element	**MEG**	**MCL**	
Aluminum	1,430	200	140
Barium	1,500	2,000	222
Beryllium	---	4	0.78B*
Cadmium	5	5	(<2.61U)
Calcium	---	---	23,000
Chromium	100	100	(<4.02U)
Iron	---	300	18,600
Magnesium	---	---	1,550
Manganese	200	50	**86.1**
Mercury	2	2	0.04B*
Potassium	---	---	3,090
Sodium	---	---	4,620
Thallium	0.4	2	**4.7B***
Vanadium	---	---	(<4.01U)
Zinc	---	5,000	11.8B*

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

NOTE:
Units are micrograms per liter (μg/L).
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 highlighted with gray and bold type denote exceedance of MEG or MCL.

TABLE A-3 SUMMARY OF SURFACE WATER SAMPLES COLLECTED FROM SITE 9 ON 11 APRIL 2000
VOLATILE ORGANIC COMPOUNDS BY U.S. ENVIRONMENTAL PROTECTION AGENCY METHOD 8260B

			SW-010
			Surface Water
			Grab Sample
Compound/Element	**MEG**	**MCL**	
Vinyl Chloride	---	---	(<2U)

NOTE:
Units are micrograms per liter (µg/L).
SW = Surface water sample locations.
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 A-4 SUMMARY OF LEACHATE SAMPLES COLLECTED FROM SITE 9 ON 11 APRIL 2000
VOLATILE ORGANIC COMPOUNDS BY U.S. ENVIRONMENTAL PROTECTION AGENCY METHOD 8260B

			LT-901	LT-901 (Dup)
			Leachate	Leachate
			Grab Sample	Grab Sample
Compound/Element	**MEG**	**MCL**		
Acetone	---	---	4J	(<5U)
Vinyl Chloride	---	---	(<2U)	(<2U)

NOTE:
Units are micrograms per liter (µg/L).
LT = Leachate sample.
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 A-5 SUMMARY OF SEDIMENT SAMPLES COLLECTED FROM SITE 9 ON 11 APRIL 2000
VOLATILE ORGANIC COMPOUNDS BY U.S. ENVIRONMENTAL PROTECTION AGENCY METHOD 8260B

			SED-10	SED-10 (Dup)
			Sediment	Sediment
			Grab Sample	Grab Sample
Compound/Element	**MEG**	**MCL**		
1,2-Dichloroethene, Total	---	---	17	7
Acetone	---	---	9B	6B
Methylene Chloride	---	---	10B	8B
Trichloroethene	---	---	5	(<1U)
Vinyl Chloride	---	---	(<3U)	(<3U)

NOTE:
Units are micrograms per liter (µg/Kg).
SED = Stream sediment sample location.
B = Compound detected in associated method blank.
J = Estimated concentration below detection limit.
U = Not detected. Sample quantitation limits are shown as (<____U).
Only those compounds detected in at least one of the samples and vinyl chloride are shown on this table.

TABLE A-6 SUMMARY OF QUALITY CONTROL SAMPLES COLLECTED FROM SITE 9 BETWEEN 11 AND 13 APRIL 2000
VOLATILE ORGANIC COMPOUNDS BY U.S. ENVIRONMENTAL PROTECTION AGENCY METHOD 8260B

			QS-001	QS-002	QT-001
			Rinsate Blank	Rinsate Blank	Trip Blank
			QC Sample	QC Sample	QC Sample
Compound/Element	**MEG**	**MCL**			
Acetone	---	---	(<5U)	(<5U)	3J
Methylene Chloride	---	---	0.5JB	0.7JB	1B
Vinyl Chloride	---	---	(<2U)	(<2U)	(<2U)

NOTE:
Units are micrograms per liter (µg/L).
QT = Trip blank.
QS = Equipment rinsate blank.
QD =Source water blank.
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.

Appendix B

Field Monitoring and Sampling Forms

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

Appendix B.1

Field Record of Well Gauging Forms

EA ENGINEERING, SCIENCE, AND TECHNOLOGY, INC.

FIELD RECORD OF WELL GAUGING

Project Name: LTMP April Monitoring Event Site 9	Project No: 29600047	Date: 3/27/00
Weather/Temperature:		
EA Personnel: SYC	Equipment: Slope indicator, TVA-1000	

Well No.	Labeled/ Capped	Well Locked	VOCs Concentration (ppm) Air Ambient	VOCs Concentration (ppm) Well Mouth	Casing/Seal Condition	Protective Casing Elevation (ft)	PVC Casing Elevation (ft)	Depth to Water (ft)	Measured Well Depth (ft)	Water Table Elevation (ft)
MW-DASD 69	Y Y	Y	0	0	Good		57.35	10.28	42.42	47.07
70	Y Y	Y	0	0	Good		58.26	11.10	27.32	47.16
71	Y Y	Y	0	0	Good		46.25	1.70	21.54	44.55
72	Y Y	Y	0	0	Good		49.81	9.03	14.63	40.78
73	Y Y	Y	0	0	Good		51.71	7.57	32.12	44.14
74	Y Y	Y	0	0	Good		51.68	9.15	27.12	42.53
75	Y Y	Y	0	0	Good		54.91	13.02	21.22	41.89
76	Y Y	Y	0	0	Good		52.79	10.90	19.94	41.89
77	Y Y	Y	0	0	Good		58.89	15.79	37.29	43.10
78	Y Y	Y	0	0	Good		53.74	8.99	14.93	44.75
79	Y Y	Y	0	0	Good		58.15	11.02	18.92	47.13
80	Y Y	Y	0	0	Good		55.51	10.41	19.04	48.10
81	Y Y	Y	0	0	Good		58.22	10.11	18.85	48.11

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

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EA ENGINEERING, SCIENCE, AND TECHNOLOGY, INC.

FIELD RECORD OF WELL GAUGING

Project Name: LTMP April Monitoring Event Site 9	Project No: 29600047	Date: 3/27/00
Weather/Temperature:		
EA Personnel: SYC	Equipment: Slope indicator, TVA-1000	

Well No.	Labeled/ Capped	Well Locked	VOCs Concentration (ppm) Air Ambient	VOCs Concentration (ppm) Well Mouth	Casing/Seal Condition	Protective Casing Elevation (ft)	PVC Casing Elevation (ft)	Depth to Water (ft)	Measured Well Depth (ft)	Water Table Elevation (ft)
MW-DASP 69	Y Y	Y	0	0	Good	--	57.35	10.28	42.42	47.07
70	Y Y	Y	0	0	Good		58.26	11.10	27.32	47.16
71	Y Y	Y	0	0	Good		46.25	1.70	21.54	44.55
72	Y Y	Y	0	0	Good		49.81	9.03	14.63	40.78
73	Y Y	Y	0	0	Good		51.71	7.57	32.12	44.14
74	Y Y	Y	0	0	Good		51.68	9.15	27.12	42.53
75	Y Y	Y	0	0	Good		54.91	13.02	21.22	41.89
76	Y Y	Y	0	0	Good		52.79	10.90	19.94	41.89
77	Y Y	Y	0	0	Good		58.89	15.79	37.29	43.10
78	Y Y	Y	0	0	Good		53.74	8.99	14.93	44.75
79	Y Y	Y	0	0	Good		58.15	11.02	18.92	47.13
80	Y Y	Y	0	0	Good		58.51	10.41	19.04	48.10
81	Y Y	Y	0	0	Good		58.22	10.11	18.85	48.11

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

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EA ENGINEERING, SCIENCE, AND TECHNOLOGY, INC.

FIELD RECORD OF WELL GAUGING

Project Name: LTMP Event16 NEX	Project No: 29600.47	Date: 3/27/00
Weather/Temperature:		
EA Personnel: SC	Equipment: interface probe TVA-1000	

Well No.	Labeled/ Capped	Well Locked	VOCs Concentration (ppm) Air Ambient	VOCs Concentration (ppm) Well Mouth	Casing/Seal Condition	Protective Casing Elevation (ft)	PVC Casing Elevation (ft)	Depth to Water (ft)	Measured Well Depth (ft)	Water Table Elevation (ft)
MW-MA-8	Y Y	Y			Good		59.22	2.33	13.15	56.89
9	Y Y	Y			Good		59.00	3.68	11.50	55.32
10	Y Y	Y			Good		62.03	6.50	12.40	55.53
23	Y Y	Y			Good		67.29	7.14	21.90	60.15
24	Y Y	Y			Good		65.31	5.15	13.15	60.16
25	Y Y	Y			Good		64.34	6.61	14.70	57.73
26	Y Y	Y			Good		66.61	6.88	12.55	59.73
225	Y Y	Y			Good		64.61	6.46	14.31	58.15
226	Y Y	Y			Good		62.22	4.85	12.68	57.37

NOTE: All measurements in feet mean sea level (MSL). No measured product

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Appendix B.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: 9
WELL I.D.: MW NASB-69
WELL CONDITION: Good

PROJECT NUMBER: 2960047 7516
WELL LOCK STATUS: yes
WEATHER: cloudy 50

GAUGE DATE: 4/11/00
SOUNDING METHOD: water-level indicator
STICK UP/DOWN (ft): -2.43

GAUGE TIME: 1250
MEASUREMENT REF: TOC
WELL DIAMETER (in.): 2"

PURGE DATE: 4/11/00
PURGE METHOD: low flow
AMBIENT AIR VOCs (ppm) Start: 0 End: 0

PURGE TIME: 1251
FIELD PERSONNEL: BA/JS
WELL MOUTH VOCs (ppm): Start: 0 End: 0

WELL VOLUME

A. WELL DEPTH (ft): 42.42
B. DEPTH TO WATER (ft): 9.97
C. LIQUID DEPTH (ft) (A-B): 32.45

D. WELL VOLUME/FT (L): 0.605
E. WELL VOLUME (L) (C*D): 19.6
F. THREE WELL VOLUMES (L) (E*3): 58.9

Parameter	Beginning	1	2	3	4	5
Time (min)	1252	1257	1302	*1307	1312	1317
Depth to Water (ft)	10.05	10.15	10.17	10.16	10.15	10.13
Purge Rate (L/min)	.2	.2	.2	.2	.2	.2
Volume Purged (L)	0.2	1.2	2.2	3.2	4.2	5.2
pH	4.81	5.63	5.85	5.94	5.89	5.26
Temperature (°C)	12.20	12.22	12.87	13.57	13.88	14.26
Conductivity (μmhos/cm)	311	316	318	325	331	332
Dissolved Oxygen (mg/L)	1.01	0.87	0.68	0.84	0.84	0.51
Turbidity (NTU)	10	7.3	4.4	3.9	2.7	2.7
Eh (mv)	147	143	139	128	120	116

TOTAL QUANTITY OF WATER REMOVED (L): 16

SAMPLERS: BA, SC
SAMPLING TIME (START/END): 1411
SAMPLING DATE: 4/11/00
DECONTAMINATION FLUIDS USED: DI
SAMPLE TYPE: Grab
SAMPLE PRESERVATIVES: HCL, HNO_3
SAMPLE BOTTLE IDs: BN-16-59-MW069, 0
SAMPLE PARAMETERS: VOC, metals, SVOCs
COMMENTS AND OBSERVATIONS: ph OK

EA Engineering, Science, and Technology

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

Site Name: Site 9	Project No.:	Date: 4/11/00
Well ID: MW-NASB-09	Field Personnel: LS	

Parameter	6	7	8	9	10	11
Time (min.)	1322	1327	1332	1337	1342	** 1347
Depth to Water (ft)	10.15	10.16	10.17	10.18	10.17	10.17
Purge Rate (L/min)	.2	.2	.2	.2	.2	.2
Volume Purged (L)	6.2	7.2	8.2	9.2	10.2	11.2
pH	5.52	4.21	4.09	5.09	4.97	5.37
Temperature (°C)	~~5.52~~ 14.710	14.85	14.96	14.91	15.01	14.84
Conductivity (μmhos/cm)	335	336	~~341~~ 338	340	340	340
Dissolved Oxygen (mg/L)	0.44	0.20	0.11	0.10	0.09	0.54
Turbidity (NTU)	2.9	2.9	2.9	2.9	2.9	5.5
Eh (mv)	113	113	110	107	107	116

Parameter	12	13	14	15	16	17
Time (min)	1352	1357	1402	1407		
Depth to Water (ft)	10.18	10.17	10.18	10.19		
Purge Rate (L/min)	.2	.2	.2	.2		
Volume Purged (L)	12.2	13.2	14.2	15.2		
pH	5.63	5.70	5.78	5.80		
Temperature (°C)	15.85	16.04	15.96	16.00		
Conductivity (μmhos/cm)	340	340	341	343		
Dissolved Oxygen (mg/L)	0.41	0.12	0.10	0.08		
Turbidity (NTU)	4.8	3	3	3		
Eh (mv)	110	112	114	113		

COMMENTS AND OBSERVATIONS * YSI keeps shutting off may be affecting numbers, ** YSI hooked up to generator

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: Site 1
WELL I.D.: MW-NASB-070
WELL CONDITION: good
PROJECT NUMBER: 2960047
WELL LOCK STATUS: locked
WEATHER: Sunny, windy

GAUGE DATE: 4/11/00
SOUNDING METHOD: Slope indicator
STICK UP/DOWN (ft):
GAUGE TIME: 1445
MEASUREMENT REF: TOC
WELL DIAMETER (in.): 2

PURGE DATE: 4/11/00
PURGE METHOD: low-flow
AMBIENT AIR VOCs (ppm) Start: 0 End: 0
PURGE TIME: 1448
FIELD PERSONNEL: SC, BH, SW
WELL MOUTH VOCs (ppm): Start: 0 End: 0

WELL VOLUME

A. WELL DEPTH (ft): 27.3
B. DEPTH TO WATER (ft): 10.88
C. LIQUID DEPTH (ft) (A-B): 16.42
D. WELL VOLUME/FT (L): 0.605
E. WELL VOLUME (L) (C*D): 10
F. THREE WELL VOLUMES (L) (E*3): 30

Parameter	Beginning	1	2	3	4	5
Time (min)	1453	1456	1459	1502	1505	1508
Depth to Water (ft)	11.42	11.42	11.42	11.43	11.43	11.44
Purge Rate (L/min)	0.2	0.2	0.2	0.2	0.2	0.2
Volume Purged (L)	1	1.6	2.2	2.8	3.4	4.0
pH	5.54	5.51	5.46	5.40	5.38	5.32
Temperature (°C)	11.34	12.17	12.52	12.71	12.74	12.76
Conductivity (μmhos/cm)	118	115	114	112	109	107
Dissolved Oxygen (mg/L)	3.00	2.41	2.09	1.77	1.76	1.69
Turbidity (NTU)	6	3	2	1	1	1
Eh (mv)	53	70	78	85	89	91

TOTAL QUANTITY OF WATER REMOVED (L): 5

SAMPLERS: SC, BH, SW
SAMPLING TIME (START/END): 1510 /
SAMPLING DATE: 4/11/00
DECONTAMINATION FLUIDS USED: none
SAMPLE TYPE: Grab
SAMPLE PRESERVATIVES: ~~HCl~~ HNO_3
SAMPLE BOTTLE IDs: BN-16-S9MW70
SAMPLE PARAMETERS: SVOC, metals
COMMENTS AND OBSERVATIONS: phOK

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: Site9
WELL I.D.: MW-WAS B-71
WELL CONDITION: good

PROJECT NUMBER: 2960047
WELL LOCK STATUS: locked
WEATHER: overcast

GAUGE DATE: 4/12/00
SOUNDING METHOD: slope indicator
STICK UP/DOWN (ft): 2.80

GAUGE TIME: 940
MEASUREMENT REF: TOC
WELL DIAMETER (in.): 2

PURGE DATE: 4/12/00
PURGE METHOD: Low Flow
AMBIENT AIR VOCs (ppm) Start: 0 End: 0

PURGE TIME: 1014
FIELD PERSONNEL: SC, SW
WELL MOUTH VOCs (ppm): Start: 0 End: 0

WELL VOLUME

A. WELL DEPTH (ft): 21.54
B. DEPTH TO WATER (ft): 1.6
C. LIQUID DEPTH (ft) (A-B): 19.94

D. WELL VOLUME/FT (L): 0.609
E. WELL VOLUME (L) (C*D): 12
F. THREE WELL VOLUMES (L) (E*3): 36

Parameter	Beginning	1	2	3	4	5
Time (min)	1017	10.20	10.23	10.26	10.29	10.32
Depth to Water (ft)	2.29	2.30	2.31	2.32	2.33	2.34
Purge Rate (L/min)	2	2	2	2	2	2
Volume Purged (L)	6	12	18	24	30	36
pH	4.61	5.37	5.66	5.76	5.82	5.85
Temperature (°C)	13.38	13.55	13.60	13.64	13.67	13.68
Conductivity (μmhos/cm)	299	277	268	265	264	262
Dissolved Oxygen (mg/L)	0.48	0.37	0.31	0.28	0.25	0.24
Turbidity (NTU)	8	6	4	3	3	2
Eh (mv)	43	36	31	28	26	26

TOTAL QUANTITY OF WATER REMOVED (L): 52

SAMPLERS: SC, SW
SAMPLING TIME (START/END): 1035 / 1040
SAMPLING DATE: 4/12/00
DECONTAMINATION FLUIDS USED: none
SAMPLE TYPE: Grab
SAMPLE PRESERVATIVES: HCL
SAMPLE BOTTLE IDs: BN-16-59-MW71 MS/MSD
SAMPLE PARAMETERS: VOC

COMMENTS AND OBSERVATIONS: ph checked

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: 2960047
WELL LOCK STATUS: locked
WEATHER: Sunny 45

GAUGE DATE: 4/11/00
SOUNDING METHOD: Low Flow
STICK UP/DOWN (ft): 2.25

GAUGE TIME: 10.5
MEASUREMENT REF: TOC
WELL DIAMETER (in.): 2

PURGE DATE: 4/11/00
PURGE METHOD: Low Flow
AMBIENT AIR VOCs (ppm) Start: 0 End: 0

PURGE TIME: 1016
FIELD PERSONNEL: SC, SW
WELL MOUTH VOCs (ppm): Start: 0 End: 0

WELL VOLUME

A. WELL DEPTH (ft): 14.60
B. DEPTH TO WATER (ft): 8.90
C. LIQUID DEPTH (ft) (A-B): 5.7

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)	1021	10.26	10.31	10.36	10.40	1044
Depth to Water (ft)	9.61	9.61	9.60	9.60	9.60	9.60
Purge Rate (L/min)	0.2	0.2	0.2	0.2	0.2	0.2
Volume Purged (L)	1	2	3	4	4.8	5.6
pH	5.32	5.69	5.87	5.99	6.02	6.06
Temperature (°C)	8.14	8.46	8.56	8.56	8.61	8.56
Conductivity (μmhos/cm)	79	89	86	94	88	94
Dissolved Oxygen (mg/L)	3.92	3.68	3.45	3.28	3.21	3.14
Turbidity (NTU)	39	36	36	10	8	8
Eh (mv)	113	120	126	130	133	135

TOTAL QUANTITY OF WATER REMOVED (L): 6

SAMPLERS: SC, SW
SAMPLING TIME (START/END): 1045 /
SAMPLING DATE: 4/11/00
DECONTAMINATION FLUIDS USED: none
SAMPLE TYPE: Grab
SAMPLE PRESERVATIVES: HCL
SAMPLE BOTTLE IDs: BN-16-59-MW72
SAMPLE PARAMETERS: VOC

COMMENTS AND OBSERVATIONS: pH OK

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: 29600477516
WELL LOCK STATUS: locked
WEATHER: sunny, 45

GAUGE DATE: 4/11/00
SOUNDING METHOD: Slope indicator
STICK UP/DOWN (ft): 1.9

GAUGE TIME: 914
MEASUREMENT REF: TOC
WELL DIAMETER (in.): 2

PURGE DATE: 4/11/00
PURGE METHOD: Low Flow
AMBIENT AIR VOCs (ppm) Start: 0 End: 0

PURGE TIME: 917
FIELD PERSONNEL: SC, SW
WELL MOUTH VOCs (ppm): Start: ____ End: ____

WELL VOLUME

A. WELL DEPTH (ft): 27.12
B. DEPTH TO WATER (ft): 9.22
C. LIQUID DEPTH (ft) (A-B): 17.90

D. WELL VOLUME/FT (L): 0.605
E. WELL VOLUME (L) (C*D): 10
F. THREE WELL VOLUMES (L) (E*3): 30

Parameter	Beginning	1	2	3	4	5
Time (min)	922	927	932	937	942	947
Depth to Water (ft)	9.50	9.50	9.50	9.54	9.62	9.64
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	5.97	6.08	6.23	6.26	6.00	6.20
Temperature (°C)	12.29	12.55	13.90	14.00	13.83	13.63
Conductivity (μmhos/cm)	209	239	284	287	304	306
Dissolved Oxygen (mg/L)	0.59	0.56	0.37	0.29	0.34	0.41
Turbidity (NTU)	615	528	298	108	67	34
Eh (mv)	48	46	36	33	42	39

TOTAL QUANTITY OF WATER REMOVED (L): 11

SAMPLERS: SC, SW
SAMPLING TIME (START/END): 1003/1005
SAMPLING DATE: 4/11/00
DECONTAMINATION FLUIDS USED: none
SAMPLE TYPE: Grab
SAMPLE PRESERVATIVES: HCL
SAMPLE BOTTLE IDs: BN-16-59 MW74
SAMPLE PARAMETERS: VOC
COMMENTS AND OBSERVATIONS: phok

EA Engineering, Science, and Technology

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

Site Name: Site 9	Project No.: 2960047	Date: 4/11/00
Well ID: MW-NAS13-74	Field Personnel: JC, JW	

Parameter	6	7	8	9	10	11
Time (min.)	952	955	958	1001		
Depth to Water (ft)	9.65	9.66	9.67	9.67		
Purge Rate (L/min)	0.2	0.2	0.2	0.2		
Volume Purged (L)	7	7.6	8.2	9.0		
pH	6.22	6.23	6.24	6.24		
Temperature (°C)	13.59	13.76	13.90	13.93		
Conductivity (μmhos/cm)	283	289	294	292		
Dissolved Oxygen (mg/L)	0.37	0.29	0.27	0.28		
Turbidity (NTU)	14	7	6	5		
Eh (mv)	38	39	39	39		

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-75
WELL CONDITION: Good

PROJECT NUMBER: 29600.43 7516
WELL LOCK STATUS: good
WEATHER: overcast, cool

GAUGE DATE: 4/11/00
SOUNDING METHOD: water level indicator
STICK UP/DOWN (ft): 2.00

GAUGE TIME: 0907
MEASUREMENT REF: TOC
WELL DIAMETER (in.): 2"

PURGE DATE: 4/11/00
PURGE METHOD: Low flow
AMBIENT AIR VOCs (ppm) Start: Ø End: Ø

PURGE TIME: 0914
FIELD PERSONNEL: BA SW SC
WELL MOUTH VOCs (ppm): Start: Ø End: Ø

WELL VOLUME

A. WELL DEPTH (ft): 21.22
B. DEPTH TO WATER (ft): 12.82
C. LIQUID DEPTH (ft) (A-B): 8.4

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)	0915	0920	0925	0930	0935	0940
Depth to Water (ft)	12.86	12.97	12.98	12.99	12.98	12.98
Purge Rate (L/min)	0.2	0.2	0.2	0.2	0.2	0.2
Volume Purged (L)	.2	1.2	2.2	3.2	4.2	5.2
pH	5.16	5.50	5.70	5.75	5.79	5.79
Temperature (°C)	10.08	11.54	14.44	15.56	16.15	16.47
Conductivity (μmhos/cm)	296	306	304	302	295	293
Dissolved Oxygen (mg/L)	2.00	1.10	1.07	1.21	1.20	1.27
Turbidity (NTU)	2	3	1	1	1	1
Eh (mv)	147	132	120	117	116	116

TOTAL QUANTITY OF WATER REMOVED (L): 7

SAMPLERS: BA.
SAMPLING TIME (START/END): 0950
SAMPLING DATE: 4/11/00
DECONTAMINATION FLUIDS USED: DI
SAMPLE TYPE: GRAB
SAMPLE PRESERVATIVES: HCL
SAMPLE BOTTLE IDs: BN/6 59 MW075
SAMPLE PARAMETERS: VOC
COMMENTS AND OBSERVATIONS: Grundfos set at 9 Hz ph OK

EA Engineering, Science, and Technology

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

Site Name: Site 9	Project No.: 29600017	Date: 4/11/00
Well ID: MW-NASB-075	Field Personnel: BA, SC, SW	

Parameter	6	7	8	9	10	11
Time (min.)	0943	0946	0949			
Depth to Water (ft)	12.98	12.98	12.98			
Purge Rate (L/min)	0.2	0.2	0.2			
Volume Purged (L)	5.8	6.3	6.8			
pH	5.79	5.80	5.80			
Temperature (°C)	16.49	16.50	16.54			
Conductivity (μmhos/cm)	292	290	291			
Dissolved Oxygen (mg/L)	1.28	1.27	1.26			
Turbidity (NTU)	1	1	1			
Eh (mv)	116	116	116			

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-076
WELL CONDITION: Good

PROJECT NUMBER: 29600.47
WELL LOCK STATUS: good
WEATHER: Cloudy, cool

GAUGE DATE: 4/11/00
SOUNDING METHOD: water level indicator
STICK UP/DOWN (ft):

GAUGE TIME: 1002
MEASUREMENT REF: TOC
WELL DIAMETER (in.): 2"

PURGE DATE: 4/11/00
PURGE METHOD: Low flow
AMBIENT AIR VOCs (ppm) Start: Ø End: Ø

PURGE TIME: 1004
FIELD PERSONNEL: BA, SC, SW
WELL MOUTH VOCs (ppm): Start: Ø End: Ø

WELL VOLUME

A. WELL DEPTH (ft): 19.94
B. DEPTH TO WATER (ft): 10.82
C. LIQUID DEPTH (ft) (A-B): 9.12

D. WELL VOLUME/FT (L): 0.605
E. WELL VOLUME (L) (C*D): 5.5
F. THREE WELL VOLUMES (L) (E*3): 16.5

Parameter	Beginning	1	2	3	4	5
Time (min)	1005	1010	1015	1020	1025	1030
Depth to Water (ft)	10.82	10.83	10.86	10.89	10.89	10.87
Purge Rate (L/min)	0.2	0.2	0.2	0.2	0.2	0.2
Volume Purged (L)	0.2	1.2	2.2	3.2	4.2	5.2
pH	5.32	5.47	5.48	5.78	5.83	5.89
Temperature (°C)	10.37	10.76	16.04	17.85	18.22	18.66
Conductivity (μmhos/cm)	301	308	305	303	305	304
Dissolved Oxygen (mg/L)	2.89	1.49	1.19	0.98	0.93	0.89
Turbidity (NTU)	1	1	0	0	0	0
Eh (mv)	127	100	61	29	22	12

TOTAL QUANTITY OF WATER REMOVED (L): 7

SAMPLERS: BA, SC, SW
SAMPLING TIME (START/END): 1045
SAMPLING DATE: 4/11/00
DECONTAMINATION FLUIDS USED: DI
SAMPLE TYPE: Grab
SAMPLE PRESERVATIVES:
SAMPLE BOTTLE IDs: BN1689 MW076
SAMPLE PARAMETERS: VOC
COMMENTS AND OBSERVATIONS: ph OK

EA Engineering, Science, and Technology

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

Site Name: Site 9	Project No.: 2960047	Date: 4/11/00
Well ID: MW-NASB-076	Field Personnel: BA, SC, SW	

Parameter	6	7	8	9	10	11
Time (min.)	1035	1038	1041			
Depth to Water (ft)	10.86	10.86	10.85			
Purge Rate (L/min)	0.1	0.1	0.1			
Volume Purged (L)	5.7	6.0	6.3			
pH	5.90	5.90	5.91			
Temperature (°C)	18.79	18.80	18.83			
Conductivity (μmhos/cm)	307	308	310			
Dissolved Oxygen (mg/L)	0.80	0.77	0.77			
Turbidity (NTU)	0	0	0			
Eh (mv)	18	20	20			

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-77
WELL CONDITION: good

PROJECT NUMBER: 2960047
WELL LOCK STATUS: locked
WEATHER: overcast 45

GAUGE DATE: 4/12/00
SOUNDING METHOD: Slope indicator
STICK UP/DOWN (ft): 3.04

GAUGE TIME: 1100
MEASUREMENT REF: toc
WELL DIAMETER (in.): 2

PURGE DATE: 4/12/00
PURGE METHOD: Low Flow
AMBIENT AIR VOCs (ppm) Start: 0 End: 0

PURGE TIME: 1109
FIELD PERSONNEL: SC, SW
WELL MOUTH VOCs (ppm): Start: 0 End: 0

WELL VOLUME

A. WELL DEPTH (ft): 27.32
B. DEPTH TO WATER (ft): 15.77
C. LIQUID DEPTH (ft) (A-B): 11.55

D. WELL VOLUME/FT (L): 0.603
E. WELL VOLUME (L) (C*D): 7
F. THREE WELL VOLUMES (L) (E*3): 21

Parameter	Beginning	1	2	3	4	5
Time (min)	1112	1115	1118	1121	1124	1127
Depth to Water (ft)	15.88	15.91	15.92	15.93	15.93	15.94
Purge Rate (L/min)	0.3	0.3	0.3	0.3	0.3	0.3
Volume Purged (L)	0.9	1.8	2.7	3.6	4.5	5.4
pH	4.16	5.00	5.34	5.41	5.44	5.47
Temperature (°C)	8.33	9.68	10.69	10.98	11.07	11.12
Conductivity (μmhos/cm)	49	48	46	45	44	46
Dissolved Oxygen (mg/L)	6.10	5.29	4.98	4.87	4.82	4.79
Turbidity (NTU)	20	27	19	16	14	11
Eh (mv)	101	107	115	122	131	133

TOTAL QUANTITY OF WATER REMOVED (L): 9.5

SAMPLERS: SC, SW
SAMPLING TIME (START/END): 1140
SAMPLING DATE: 4/12/00
DECONTAMINATION FLUIDS USED: none
SAMPLE TYPE: Grab
SAMPLE PRESERVATIVES: HCL
SAMPLE BOTTLE IDs: BN-16-S9-MW77 Sim modified for VC. BN-16-S9-MW77D2
SAMPLE PARAMETERS: VOC modified SIM for vinylchloride
COMMENTS AND OBSERVATIONS: Containerized water ran through plant

phOK

EA Engineering, Science, and Technology

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

Site Name: Site 9	Project No.: 2960047	Date: 4/12/00
Well ID: MW-NASB-77	Field Personnel: SC, SW	

Parameter	6	7	8	9	10	11
Time (min.)	1130	1133	1136			
Depth to Water (ft)	15.96	15.97	15.98			
Purge Rate (L/min)	0.3	0.3	0.3			
Volume Purged (L)	6.3	7.2	8.1			
pH	5.50	5.52	5.53			
Temperature (°C)	11.13	11.19	11.28			
Conductivity (μmhos/cm)	44	42	43			
Dissolved Oxygen (mg/L)	4.77	4.74	4.71			
Turbidity (NTU)	8	8	6			
Eh (mv)	132	139	135			

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-N/SB-079
WELL CONDITION: good

PROJECT NUMBER: 29600.47.7516
WELL LOCK STATUS: good
WEATHER: 45°F PC Wind 10 knots

GAUGE DATE: 4/11/00
SOUNDING METHOD: water level indicator
STICK UP/DOWN (ft):

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

PURGE DATE: 4/11/00
PURGE METHOD: low flow
AMBIENT AIR VOCs (ppm) Start: 0 End: 0

PURGE TIME: 1323
FIELD PERSONNEL: SW/BN
WELL MOUTH VOCs (ppm): Start: 0 End: 0

WELL VOLUME

A. WELL DEPTH (ft): 19.00
B. DEPTH TO WATER (ft): 10.77
C. LIQUID DEPTH (ft) (A-B): 8.23

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)	1325	1330	1335	1340	1345	1350
Depth to Water (ft)	10.88	10.89	10.89	10.89	10.91	10.92
Purge Rate (L/min)	0.4	0.4	0.4	0.4	0.4	0.4
Volume Purged (L)	0.8	2.8	4.8	6.8	8.8	10.8
pH	5.78	5.97	3.96	4.05	4.96	6.13
Temperature (°C)	11.39	12.82	14.28	14.58	14.62	14.62
Conductivity (μmhos/cm)	281	287	281	253	235	223
Dissolved Oxygen (mg/L)	4.30	0.74	0.26	0.20	0.20	0.44
Turbidity (NTU)	58	23	9	4	3	3
Eh (mv)	-71	-116	-124	-116	-111	-105

*plug in YSI

TOTAL QUANTITY OF WATER REMOVED (L): 21

SAMPLERS: SW
SAMPLING TIME (START/END): 1408/1415
SAMPLING DATE: 4/11/00
DECONTAMINATION FLUIDS USED: DI
SAMPLE TYPE: grab
SAMPLE PRESERVATIVES: —
SAMPLE BOTTLE IDs: BN-1659-MW079
SAMPLE PARAMETERS: TAL Metals, SVOC
COMMENTS AND OBSERVATIONS: initial water reddish (iron)

pH OK

EA Engineering, Science, and Technology

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

Site Name: Site 9	Project No.: 29600.47.7516	Date: 4/11/00
Well ID: MW-NASB-029	Field Personnel: SLW/BA	

Parameter	6	7	8	9	10	11
Time (min.)	1355	1400	1405			
Depth to Water (ft)	10.92	10.92	10.93			
Purge Rate (L/min)	0.4	0.4	0.4			
Volume Purged (L)	12.8	14.8	16.8			
pH	6.39	6.48	6.51			
Temperature (°C)	14.60	14.72	14.66			
Conductivity (μmhos/cm)	215	210	208			
Dissolved Oxygen (mg/L)	0.51	0.63	0.70			
Turbidity (NTU)	1	1.0	1			
Eh (mv)	-100	-95	-91			

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

COMMENTS AND OBSERVATIONS _____

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: Site 9
WELL I.D.: MW-N75B-80
WELL CONDITION: good

PROJECT NUMBER: 29600.47.7516
WELL LOCK STATUS: good
WEATHER: ~~44~~ 45°F PC Wind 15 knots

GAUGE DATE: 4/11/00
SOUNDING METHOD: water level indicator
STICK UP/DOWN (ft): 2.05

GAUGE TIME: 1210
MEASUREMENT REF: TOC
WELL DIAMETER (in.): 2 inch

PURGE DATE: 4/11/00
PURGE METHOD: low-low
AMBIENT AIR VOCs (ppm) Start: 0 End: 0

PURGE TIME: 1215
FIELD PERSONNEL: SW/BA
WELL MOUTH VOCs (ppm): Start: 0 End: 0

WELL VOLUME

A. WELL DEPTH (ft): ~~10.00~~ SW 19.04
B. DEPTH TO WATER (ft): 10.00
C. LIQUID DEPTH (ft) (A-B): 9.04

D. WELL VOLUME/FT (L): 0.605
E. WELL VOLUME (L) (C*D): 5.5
F. THREE WELL VOLUMES (L) (E*3): 16.5

Parameter	Beginning	1	2	3	4	5
Time (min)	1220	1225	1230	1235	1240	1245
Depth to Water (ft)	10.30	10.22	10.22	10.22	10.22	10.22
Purge Rate (L/min)	0.2	0.2	0.2	0.2	0.2	0.2
Volume Purged (L)	~~0.5~~ SC 1	~~1.0~~ SC 2	~~2.0~~ SC 3	~~3.0~~ SC 4	~~4.0~~ SC 5	~~5.0~~ SC 6
pH	2.39	4.70	5.68	6.04	6.16	6.25
Temperature (°C)	9.79	12.52	14.32	15.16	15.57	16.08
Conductivity (μmhos/cm)	223.00	336.00	353.00	364.00	363.00	290
Dissolved Oxygen (mg/L)	4.70	3.82	3.94	2.46	3.30	3.54
Turbidity (NTU)	5.4	3.7	1.4	1.1	1.0	3
Eh (mv)	124.0	98.3	73.1	55.3	48.6	39

TOTAL QUANTITY OF WATER REMOVED (L): ~~12~~ SC 13

SAMPLERS: SW, BA
SAMPLING TIME (START/END): 1310
SAMPLING DATE: 4/11/00
DECONTAMINATION FLUIDS USED: DI
SAMPLE TYPE: Grab
SAMPLE PRESERVATIVES: HCL
SAMPLE BOTTLE IDs: BN-16-59-MW080
SAMPLE PARAMETERS: VOCs
COMMENTS AND OBSERVATIONS: See pg 2.

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

Site Name: Site 9	Project No.: 29400047.751A	Date: 9/11/00
Well ID: MW-NASB-80	Field Personnel: SW	

Parameter	6	7*	8	9	10	11
Time (min.)	1250	1255	1300	1303	1306	
Depth to Water (ft)	10.22	10.22	10.22	10.31	10.30	
Purge Rate (L/min)	0.2	0.2	0.3	0.4	0.4	
Volume Purged (L)	~~6~~ SC 7	~~7~~ SC 8	~~8~~ SC 9.5	~~9~~ SC 10.7	~~10~~ SC 11.9	
pH	6.28	6.29	6.19	6.22	6.24	
Temperature (°C)	14.97	14.87	12.96	12.92	12.72	
Conductivity (μmhos/cm)	244	264	273	275	277	
Dissolved Oxygen (mg/L)	1.90	1.72	2.01	2.10	2.12	
Turbidity (NTU)	2	2	1	1	1	
Eh (mv)	30	26	23	22	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 Some clogging of pump with fines. * empty flowcell because turb at 20 NTU after empty turb = 2) increase flow. once no drawdown established - Readings were stable. BF

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: Site 9
WELL I.D.: MW NASB 22
WELL CONDITION: good

PROJECT NUMBER: 2960047
WELL LOCK STATUS: locked
WEATHER: Overcast 40

GAUGE DATE: 4/11/00
SOUNDING METHOD: Slope indicator
STICK UP/DOWN (ft):

GAUGE TIME: 1540
MEASUREMENT REF: TOC
WELL DIAMETER (in.): 2

PURGE DATE: 4/11/00
PURGE METHOD: Low Flow
AMBIENT AIR VOCs (ppm) Start: 0 End: 0

PURGE TIME: ~~1542~~ 1556
FIELD PERSONNEL: SC, BA, SW
WELL MOUTH VOCs (ppm): Start: 0 End: 0

WELL VOLUME

A. WELL DEPTH (ft): 17.97
B. DEPTH TO WATER (ft): 9.95
C. LIQUID DEPTH (ft) (A-B): 8.02
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)	1600	1603	1606	1609	1612	
Depth to Water (ft)	9.78	9.82	9.87	9.89	9.93	
Purge Rate (L/min)	0.2	0.2	0.2	0.2	0.2	
Volume Purged (L)	0.8	1.4	2.0	2.6	3.2	
pH	5.30	5.31	5.40	5.43	5.46	
Temperature (°C)	7.95	8.54	9.18	9.39	9.56	
Conductivity (μmhos/cm)	84	83	90	91	93	
Dissolved Oxygen (mg/L)	10.54	10.37	10.15	10.08	9.94	
Turbidity (NTU)	6	10	9	7	6	
Eh (mv)	136	139	140	140	140	

TOTAL QUANTITY OF WATER REMOVED (L): 4

SAMPLERS: SC, BA, SW
SAMPLING TIME (START/END): 1615
SAMPLING DATE: 4/11/00
DECONTAMINATION FLUIDS USED: none
SAMPLE TYPE: Grab
SAMPLE PRESERVATIVES: HCL
SAMPLE BOTTLE IDs: BN-16-S9-MW22
SAMPLE PARAMETERS: VOC

COMMENTS AND OBSERVATIONS: problem w/meter. Kept shutting off. Ran w/ extension chord

phok

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: Site 9
WELL I.D.: MW-NASB-227
WELL CONDITION:

PROJECT NUMBER: 2960047
WELL LOCK STATUS: locked
WEATHER: Sunny, 45

GAUGE DATE: 4/11/00
SOUNDING METHOD: ~~Low flow~~
STICK UP/DOWN (ft):

GAUGE TIME: 1104
MEASUREMENT REF: TOC
WELL DIAMETER (in.): 2

PURGE DATE: 4/11/00
PURGE METHOD: Low Flow
AMBIENT AIR VOCs (ppm) Start: 0 End: 0

PURGE TIME: 1109
FIELD PERSONNEL: BA, SC, SW
WELL MOUTH VOCs (ppm): Start: 0 End: 0

WELL VOLUME

A. WELL DEPTH (ft): 46.60
B. DEPTH TO WATER (ft): 9.49
C. LIQUID DEPTH (ft) (A-B): 31.11
D. WELL VOLUME/FT (L): 0.605
E. WELL VOLUME (L) (C*D): 19
F. THREE WELL VOLUMES (L) (E*3): 57

Parameter	Beginning	1	2	3	4	5
Time (min)	1110	1115	1120	1125	1130	1135
Depth to Water (ft)	9.64	9.66	9.70	9.77	9.81	9.78
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	5.68	5.68	5.67	5.61	5.60	5.59
Temperature (°C)	12.81	13.59	13.68	13.84	13.76	13.77
Conductivity (μmhos/cm)	261	259	257	254	266	293
Dissolved Oxygen (mg/L)	0.62	0.32	0.31	0.23	0.18	0.17
Turbidity (NTU)	400	117	84	18	14	14
Eh (mv)	55	61	72	76	81	86

TOTAL QUANTITY OF WATER REMOVED (L): 10

SAMPLERS: SC, SW, BA
SAMPLING TIME (START/END): 1150 (SW watch)
SAMPLING DATE: 4/11/00
DECONTAMINATION FLUIDS USED: none
SAMPLE TYPE: Grab
SAMPLE PRESERVATIVES: HCL
SAMPLE BOTTLE IDs: BN-16-59-MW-227
SAMPLE PARAMETERS: VOC
phok

COMMENTS AND OBSERVATIONS:

EA Engineering, Science, and Technology

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

Site Name: ~~MW NASB-227~~ Site 9		Project No.: 29600.47	Date: 4/11/00
Well ID: MW-NASB-227		Field Personnel: SC, BA, SW	

Parameter	6	7	8	9	10	11
Time (min.)	1140	1145	1148	1153	1154	
Depth to Water (ft)	9.78	9.79	9.77	9.78	9.80	
Purge Rate (L/min)	0.2	0.2	0.2	0.2	0.2	
Volume Purged (L)	7	8	8.6	9.2	9.8	
pH	5.59	5.64	5.61	5.62	5.68	
Temperature (°C)	13.79	13.75	13.54	13.64	13.70	
Conductivity (μmhos/cm)	254	252	277	280	263	
Dissolved Oxygen (mg/L)	0.16	0.17	0.18	0.18	0.16	
Turbidity (NTU)	16	16	2	1	1	
Eh (mv)	89	89	88	87	87	

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 _____

Appendix B.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: S.t.9			Project Number: 2960047
Sample Location ID: SW/SED 10			Date: 4-11-00
Sampling Time: 1535/1545	Start: 1500	End: 1550	Sample Team Members: BA, SW

SURFACE WATER INFORMATION

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

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

Water Quality Parameters
( ) Temperature 9.81 °C
( ) Conductivity 293 µmhs/cm
( ) ph 6.60 units
( ) Dissolved oxygen 10.71 mg/L
( ) Turbidity 6 NTU
( ) Eh 108 mv

Water Depth and Sample Location 1 (ft)

Depth of Sample from Top of Water .8 (ft)

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

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

Field QC Data: ( ) Field Duplicate Collected
Duplicate ID _____
(X) 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
(X) Aluminum Pans
( ) Stainless Steel Bucket
( ) Stainless Steel Auger
( ) _____

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

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

Field QC Data: (X) Field Duplicate Collected
Duplicate ID SDXD1
(X) MS/MSD

SAMPLES COLLECTED

Check if Required at this Location	Matrix: Surface Water	Matrix: Sediment	Check if Preserved with Acid/Base	Volume Required	Check if Sample Collected	Sample Bottle IDs
	✓		✓	300ml	✓	BN-16-99-SW10
		✓	✓ None	8oz	✓	BN-16-99-SD010

NOTES/SKETCH

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FIELD RECORD OF SURFACE WATER AND SEDIMENT SAMPLING

Site Name: Site 9			Project Number: 2960047
Sample Location ID: LT-901			Date: 4-18-00
Sampling Time: 1605	Start: 1600	End: 1610	Sample Team Members: SW BA

SURFACE WATER INFORMATION

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

Water Depth and Sample Location 0.25 (ft)

Depth of Sample from Top of Water 0.25 (ft)

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

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

Water Quality Parameters
( ) Temperature 9.39 °C
( ) Conductivity 208 µmhs/cm
( ) ph. 6.46 units
( ) Dissolved oxygen 7.36 mg/L
( ) Turibidity 36 NTU
( ) Eh 66 mv

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

Field QC Data: (✓) Field Duplicate Collected
Duplicate ID LTXD1
( ) 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
	✓		✓	120	✓	BN-16-S9-LT901
	✓		✓	120	✓	LTXD1

NOTES/SKETCH

Appendix C

Analytical Data Quality Review

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APPENDIX C
ANALYTICAL DATA QUALITY REVIEW

C.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 15 aqueous samples of ground water, surface water, and leachate seep (of which 3 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 4 aqueous quality control samples (1 trip blank, 2 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 16. 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 C.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	✔J	✔J	✔	✔	✔	100%✔J	100%✔
	Metals	✔	✔	✔	✔	NA	✔	✔	100%✔	100%✔
	SVOC	✔	✔	✔	✔	✔	✔	✔	100%✔	100%✔
Sediment Matrix	VOC	✔	✔B	✔J	✔J	✔	✔	✔	100%✔J	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.

All volatile organic compound (VOC) and metals data for Site 9 are usable as reported based on the accuracy and precision review provided herein. Minor sample biases are identified and a detailed description of field/laboratory blank contamination (Section C.6), precision issues (Section C.3), and accuracy issues (Section C.4) are provided below.

C.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 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.

C.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.

C.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.

C.3 PRECISION

C.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. All 40 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 2 samples SED-010 and SW-010.
A ground-water sample was designated for MS/MSD analyses for Site 9; however, the laboratory

did not analyze this sample. Consequently, the ground-water samples for Site 9 were not evaluated for analytical precision. There were no leachate seep samples designated for MS/MSD analyses, therefore, leachate seep samples were not evaluated for analytical precision. The surface water and sediment sample MS/MSD RPDs were within the established control limits, with the following exceptions: 1,4-dichlorobenzene (56 percent), 1,1,1-trichloroethane (100 percent), benzene (68 percent), acetone (74 percent), 4-methyl-2-pentanone (80 percent), 2-hexanone (60 percent), carbon disulfide (120 percent), 2-butanone (110 percent), carbon tetrachloride (140 percent), 1,3-dichlorobenzene (51 percent), 1,2-dichlorobenzene (36 percent), 1,1-dichloroethene (120 percent), 1,1-dichloroethane (47 percent), 1,1,2-trichloroethane (44 percent), 1,1,2,2-tetrachloroethane (44 percent), 2-chloroethylvinylether (170 percent), styrene (120 percent), vinyl acetate (200 percent), trichlorofluoromethane (140 percent), trichloroethene (74 percent), total xylenes (110 percent), total 1,2-dichloroethene (42 percent), toluene (75 percent), bromomethane (110 percent), tetrachloroethene (120 percent), vinyl chloride (120 percent), ethylbenzene (110 percent), *cis*-1,3-dichloropropene (32 percent), chloromethane (65 percent), chloroform (33 percent), chloroethane (48 percent), chlorobenzene (64 percent), and tetrahydrofuran (120 percent) in sample SED-010; trichlorofluoromethane (21 percent), and bromomethane (25 percent) in sample SW-010.

The results for acetone and trichloroethene should be considered estimated in sample SED-010. The non-detected results for the following compounds should be considered estimated: 1,4-dichlorobenzene, 1,1,1-trichloroethane, benzene, 4-methyl-2-pentanone, 2-hexanone, carbon disulfide, 2-butanone, carbon tetrachloride, 1,3-dichlorobenzene, 1,2-dichlorobenzene, 1,1-dichloroethene, 1,1-dichloroethane, 1,1,2-trichloroethane, 1,1,2,2-tetrachloroethane, 2-chloroethylvinylether, styrene, vinyl acetate, trichlorofluoromethane, total xylenes, total 1,2-dichloroethene, toluene, bromomethane, tetrachloroethene, vinyl chloride, ethylbenzene, *cis*-1,3-dichloropropene, chloromethane, chloroform, chloroethane, chlorobenzene, and tetrahydrofuran in sample SED-010. In sample SW-010, the non-detected results for trichlorofluoromethane, and bromomethane should be considered estimated.

C.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. The control limits identified in the QAPP were used to evaluate the aqueous duplicate RPD for Target Analyte List metals. The laboratory replicated the analyses of MW-NASB-069 Duplicate and MW-NASB-069 (for mercury).

C.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. There were no ground-water samples designated for MS/MSD analyses, therefore, ground-water samples were not evaluated for analytical precision.

C.4 ACCURACY

C.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 all four SMC.

Based on the conformance of MS/MSD and accuracy of LCS recoveries, all analytical results are usable as reported. All 40 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 C.3.1.

The surface water sample MS/MSD recoveries were within the established control limits, with the exception of acetone (48 and 44 percent), carbon disulfide (54 percent), 1,1-dichloroethene (54 percent), 2-chloroethylvinylether (50 and 50 percent), trichlorofluoromethane (47 and 58 percent), bromomethane (59 percent), vinyl chloride (45 and 55 percent), and chloromethane (59 percent). All of these recoveries were below the QAPP limits. As none of these recoveries grossly exceeded the control limits, and the SMC recoveries alone were acceptable, the usability of the data is unaffected.

The sediment sample MS/MSD recoveries were within the established control limits, with the exception of 1,4-dichlorobenzene (52 percent), 1,1,1-trichloroethane (35 percent), benzene (50 percent), acetone (36 percent), 4-methyl-2-pentanone (220 percent), 2-hexanone (148 percent), carbon disulfide (25 percent), 2-butanone (241 percent), carbon tetrachloride (20 percent), 1,3-dichlorobenzene (57 percent), 1,1-dichloroethene (24 percent), 1,1,2-trichloroethane (159 percent), 1,1,2,2-tetrachloroethane (169 percent), 2-chloroethylvinylether (5.9 percent), styrene (24 percent), vinyl acetate (13 and 0 percent), trichlorofluoromethane (18 percent), trichloroethene (42 percent), total xylenes (31 percent), toluene (45 percent), bromomethane (26 percent), tetrachloroethene (26 percent), vinyl chloride (26 percent), ethylbenzene (31 percent), chloromethane (57 percent), chlorobenzene (53 percent), and tetrahydrofuran (358 percent), which were reported outside the control limits for these compounds. These results suggest potential biases for these compounds; however, since these compounds were not detected in the sediment samples, the data are usable as reported.

All 40 VOCs were used to quantify the LCS recoveries against laboratory established control limits. All aqueous and sediment LCS recoveries were within laboratory established control limits, with the exception of acetone (56 percent) for the sediment samples; 2-butanone (56 percent), 2-chloroethylvinylether (47 percent), and acetone (39 percent) for the leachate and surface water samples; and acetone (56 and 38 percent) and 2-chloroethylvinylether (146 percent) for the monitoring well samples. These results suggest potential biases for these compounds,

however, none of these compounds were detected in the samples. Acetone was detected in the samples, however, these results are considered false-positives (see laboratory method blank section for details, C.6.1).

C.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 C.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.

C.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.

All 64 compounds were used to qualify the MS/MSD recoveries. The control limits stated in the QAPP were used to evaluate the data. There were no ground-water samples designated for MS/MSD analyses, therefore, ground-water samples were not evaluated for analytical precision.

All 64 SVOCs were used to quantify the LCS recoveries against the limits stated in the QAPP. The LCS recoveries were within the control limits, with the exception of 1,3-dichlorobenzene (69 percent), 2,2'oxybis(1-chloropropane) (52 percent), 2,4-dimethylphenol (70 percent), 2,4-dinitrophenol (69 percent), 4-chloroaniline (65 percent), hexachlorocyclopentadiene (22 percent), and hexachloroethane (66 percent). These results for these compounds suggest that there is a potential low bias that could be applied to the results for the compounds. However, none of these compounds were detected in the monitoring well samples, therefore, the data are usable as reported based on the review of LCS accuracy.

C.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 2 of 2 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 1 trip blank was collected for Site 9. There were 2 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.

C.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 1 trip blank and 2 equipment rinsate blank and 1 source water blank. The rinsate blank (QS-2) was collected during the surface water sampling program. The rinsate blank (QS-1) was collected during the sediment sampling program. The source water blank (QD-1) and the trip blank (QT-001[4/13]) associated with this event were collected under a separate SDG associated with Sites 1 and 3 and Eastern Plume.

C.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 4 samples (QS-001, QS-002, SED-010, and SED-010 DUP) should be considered false-positives due to method blank contamination.

The positive acetone results for 2 samples (SED-010 and SED-010 DUP) should be considered false-positives due to method blank contamination.

C.6.2 Trip Blanks

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

Compound	Units	Trip-1 (4/13)
Acetone	µg/L	3J
Methylene chloride	µg/L	1B

The positive acetone result in Sample LT-901 should be considered false-positive due to trip blank contamination. NOTE: Trip blank (QT-001[4/13]) associated with this event was collected under a separate SDG associated with Sites 1 and 3 and Eastern Plume. The methylene chloride result should be considered false-positive due to method blank contamination (Monitoring Event 16 Report, Sites 1 and 3 and Eastern Plume, Section C.6.1 for a statement about the methylene chloride contamination).

C.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-001	QS-002
Methylene Chloride	µg/L	0.5JB	0.7JB

NOTE: J = Estimated concentration below detection limit.
B = Compound detected in associated method blank.

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) was reported free of organic contamination, therefore, VOC data are usable as reported. NOTE: See laboratory method blank section (C.6.1) for a statement about the methylene chloride contamination.

C.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-077, MW-NASB-077 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	49	67	**31.0**	---
Vinyl chloride	µg/L	55	51	7.5	---
Aluminum	µg/L	51.4B*	79.0B*	NA	27.6
Barium	µg/L	9.6	9.6	NA	0
Beryllium	µg/L	0.82B*	0.78B*	NA	0.04
Cadmium	µg/L	2.6B*	(<2.61U)	NA	1.3
Calcium	µg/L	8,110	8,370	3.2	NR
Chromium	µg/L	9.9B*	(<4.02U)	NA	7.89
Iron	µg/L	161	170	NA	9
Magnesium	µg/L	3,110	3,200	2.9	NR
Manganese	µg/L	703	719	2.3	NR
Potassium	µg/L	2,240	2,410	NA	170
Sodium	µg/L	71,200	73,800	3.6	NR
Thallium	µg/L	4.6B*	(<3.28U)	NA	2.96
Zinc	µg/L	11.B*	10.8B*	NA	0.2

NOTE:
B* = Analyte concentration is between the IDL and the CRDL.
NA = Not applicable; analyte concentration was less than 5 times the reporting limit.
U = Not detected. Sample quantitation limits are shown as (<U).
NR = Not required; analyte concentration was greater than 5 times the reporting limit and, therefore, the RPD was applied.
Dashes (---) indicate this column does not apply to organic analysis.
Results in bold indicate an exceedance of the precision requirements.

All precision requirements were met for organic and inorganic results for the duplicate analyses of Sample MW-NASB-069, with the exception of total 1,2-dichloroethene. The results for total 1,2-dichloroethene should be considered estimations of their true concentrations in Sample MW-NASB-069.

The second set of field duplicate sample results associated with the samples from SDG S9MW069 (MW-NASB-077 and MW-NASB-077 DUP) had no detected analytes for organics and, therefore, met all precision requirements.

The following table shows the set of field duplicate leachate seep sample results that are associated with SDG S9LT901:

Compound	Units	LT-901	LT-901 DUP	RPD%
Acetone	µg/L	4J	(<5U)	**46**

NOTE: J = Estimated concentration below detection limit.
U = Not detected. Sample quantitation limits are shown as (<U).
Results in bold indicate an exceedance of the precision requirements.

All precision requirements were met for the organic analyses with the exception of acetone. The data user should note that the results for acetone should be considered false-positive due to trip blank contamination and, therefore, the precision criteria would not apply (see Section C.6.2 for discussion).

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	10B	8B	22
Acetone	µg/L	9B	6B	**40**
Total 1,2-dichloroethene	µg/L	17	7	**83**
Trichloroethene	µg/L	5	(<1U)	**163.6**

NOTE: B = Compound detected in associated method blank.
U = Not detected. Sample quantitation limits are shown as (<U).
Results in bold indicate an exceedance of the precision requirements

All precision requirements were met for the field duplicate analyses, with the exception of acetone, total 1,2-dichloroethene, and trichloroethene. The results for total 1,2-dichloroethene and trichloroethene should be considered estimations of their true concentrations in Sample SED-010. The data user should note that the results for acetone and methylene chloride should be considered false-positive due to method blank contamination and, therefore, the precision criteria would not apply (see Section C.6.1 for discussion).

C.8 METHOD DETECTION LIMITS FOR SEDIMENT AND AQUEOUS SAMPLES

Appendix C.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 C.1

Method Detection Limits for Sediment and Aqueous Samples

Date: 4/12/2000 12:35:17 PM
Matrix: AQ
Compound List: SIM VC
Instrument: 5973-U

Katahdin Analytical Services
MDL Study

Dates of Analysis	Spike	Data Files
41100	0.1	U3661-68

Analyst: HMP
Reviewed and Approved by:
File:

Date: 041200

Compound	Spike	U3661	U3662	U3663	U3664	U3665	U3666	U3667	U3668	AVG	STD DEV	MDL
VINYL CHLORIDE	0.10	0.09	0.07	0.10	0.08	0.10	0.09	0.08	0.09	0.09	0.01	0.03

Date: 3/29/2000 5:21:36 PM
Matrix: AQ
Compound List: sim vcl
Instrument: HP5972-M

Katahdin Analytical Services
MDL Study

Dates of Analysis	Spike	Data Files
32800	0.1	M4227-34

Analyst: HMP
Reviewed and Approved by:
File:

Date: 033000

Compound	Spike	M4227	M4228	M4229	M4230	M4231	M4232	M4233	M4234	AVG	STD DEV	MDL
VINYL CHLORIDE	0.10	0.12	0.11	0.10	0.10	0.09	0.09	0.09	0.09	0.10	0.01	0.03

Date: 2/26/2000 8:36:49 AM
Matrix: AQ
Compound List: SIM VCL
Instrument: HP5972F

Katahdin Analytical Services
MDL Study

Dates of Analysis	Spike	Data Files
22500	0.1	F4255-F4261

Analyst: KMC
Reviewed and Approved by
File: FSIMWMDL.XLS

Date: 022802

Compound	Spike	F4255	F4256	F4257	F4258	F4259	F4260	F4261	AVG	STD DEV	MDL
VINYL CHLORIDE	0.10	0.14	0.17	0.16	0.16	0.15	0.13	0.14	0.15	0.01	0.04

Date: 2/26/2000 9:00:53 AM
Matrix: AQ
Compound List: SIM VCL
Instrument: HP5972S

Katahdin Analytical Services
MDL Study

Dates of Analysis	Spike	Data Files
22500	0.1	S8724-S8730

Analyst: KMC
Reviewed and Approved by:
File: SSIMWMDL.XLS

Date: 022802

Compound	Spike	S8724	S8725	S8726	S8727	S8728	S8729	S8730	AVG	STD DEV	MDL
VINYL CHLORIDE	0.10	0.21	0.20	0.18	0.20	0.20	0.20	0.18	0.20	0.01	0.04

Date: 1/31/2000 11:23:02 AM
Matrix: AQ
Compound List: 8260
Instrument: 5972-F

Katahdin Analytical Services
MDL Study

Dates of Analysis	Spike	Data Files
012700 and 020800	1.00,5.00	F3921-27 ;F4050-56

Analyst: KMC
Reviewed and Approved by: JB Date 020800
File: F0127MDL.XLS

Compound	Spike	F3921	F3922	F3923	F3924	F3925	F3926	F3927	AVG	STD DEV	MDL
1,1,1,2-TETRACHLOROETHANE	1.00	1.03	1.03	1.12	1.05	1.10	0.96	1.19	1.07	0.07	0.23
1,1,1-TRICHLOROETHANE	1.00	1.06	1.05	0.92	1.05	1.07	0.95	1.37	1.07	0.15	0.46
1,1,2,2-TETRACHLOROETHANE	1.00	0.90	0.98	0.94	1.02	0.93	0.90	1.17	0.98	0.10	0.30
1,1,2-TRICHLOROETHANE	1.00	0.97	0.99	0.90	1.05	0.91	0.91	1.09	0.97	0.07	0.23
1,1-DICHLOROETHANE	1.00	1.06	1.00	1.04	1.04	1.00	0.99	1.34	1.07	0.12	0.39
1,1-DICHLOROETHENE	1.00	0.93	0.88	0.96	0.78	0.89	0.74	1.21	0.91	0.15	0.48
1,1-DICHLOROPROPENE	1.00	1.08	1.01	1.05	0.94	0.99	0.92	1.47	1.07	0.19	0.59
1,2,3-TRICHLOROBENZENE	1.00	1.08	1.08	1.00	1.13	1.04	1.10	1.38	1.12	0.12	0.39
1,2,3-TRICHLOROPROPANE	1.00	0.91	1.04	0.99	1.00	0.92	0.93	1.20	1.00	0.10	0.32
1,2,4-TRICHLOROBENZENE	1.00	1.09	1.13	0.99	1.11	1.05	1.10	1.36	1.12	0.12	0.36
1,2,4-TRIMETHYLBENZENE	1.00	1.18	1.00	1.04	1.01	0.96	1.00	1.28	1.07	0.12	0.37
1,2-DIBROMO-3-CHLOROPROPANE	1.00	0.77	0.80	1.19	0.90	0.87	1.22	1.42	1.02	0.25	0.79
1,2-DIBROMOETHANE	1.00	0.94	0.98	0.94	0.93	0.92	0.97	1.04	0.96	0.04	0.13
1,2-DICHLOROBENZENE	1.00	1.05	1.09	1.07	1.05	1.01	1.06	1.31	1.09	0.10	0.31
1,2-DICHLOROETHANE	1.00	1.35	1.34	1.53	1.59	1.42	1.50	1.59	1.47	0.11	0.33
1,2-DICHLOROETHENE (CIS)	1.00	0.96	0.90	0.96	0.92	0.97	0.87	1.07	0.95	0.06	0.20
1,2-DICHLOROETHENE (TRANS)	1.00	1.10	0.92	0.89	0.94	0.94	0.97	1.28	1.01	0.14	0.43
1,2-DICHLOROPROPANE	1.00	1.06	0.96	1.05	0.99	1.00	0.86	1.20	1.02	0.10	0.33
1,3,5-TRICHLOROBENZENE	1.00	1.14	1.04	1.09	1.02	0.93	1.10	1.23	1.08	0.10	0.30
1,3,5-TRIMETHYLBENZENE	1.00	1.09	1.00	1.03	1.04	1.00	0.99	1.33	1.07	0.12	0.38
1,3-DICHLOROBENZENE	1.00	1.19	1.07	1.07	1.07	1.03	1.02	1.37	1.12	0.12	0.39
1,3-DICHLOROPROPANE	1.00	1.03	0.99	1.01	1.10	0.98	1.01	1.06	1.03	0.04	0.13
1,4-DICHLOROBENZENE	1.00	1.17	1.06	1.04	1.05	1.01	0.96	1.28	1.08	0.11	0.34
2,2-DICHLOROPROPANE	1.00	1.11	1.06	1.04	1.01	1.00	1.01	1.36	1.08	0.13	0.40
2-BUTANONE	1.00	0.75	1.03	0.67	1.23	0.85	0.78	0.85	0.88	0.19	0.60
2-CHLOROETHYLVINYLETHER	5.00	1.76	2.55	4.49	2.25	3.13	2.25	3.24	2.81	0.90	2.84
2-CHLOROTOLUENE	1.00	1.11	1.01	1.01	1.04	0.97	0.99	1.29	1.06	0.11	0.35
2-HEXANONE	1.00	1.37	0.97	1.00	1.07	0.90	0.96	1.04	1.04	0.15	0.48
4-CHLOROTOLUENE	1.00	1.17	1.05	1.04	1.10	1.01	0.97	1.38	1.10	0.14	0.43
4-METHYL-2-PENTANONE	1.00	1.12	1.00	0.82	1.26	1.01	0.92	1.01	1.02	0.14	0.44
ACETONE	1.00	0.87	1.12	0.99	1.04	0.81	1.17	1.00	1.00	0.13	0.40
ACROLEIN	5.00	3.13	4.12	4.98	2.32	3.53	0.96	1.81	2.98	1.39	4.35
ACRYLONITRILE	1.00	0.86	0.71	0.91	0.74	0.84	0.70	0.65	0.77	0.10	0.30
BENZENE	1.00	1.07	1.03	1.05	1.01	0.98	0.96	1.35	1.06	0.13	0.41

Date: 1/31/2000 11:23:02 AM
Matrix: AQ
Compound List: 8260
Instrument: 5972-F

Katahdin Analytical Services
MDL Study

Dates of Analysis	Spike	Data Files
012700 and 020800	1.00,5.00	F3921-27 ;F4050-56

Analyst: KMC
Reviewed and Approved by: Date
File: F0127MDL.XLS

Compound	Spike	F3921	F3922	F3923	F3924	F3925	F3926	F3927	AVG	STD DEV	MDL
BROMOBENZENE	1.00	1.10	1.02	1.01	1.09	1.03	0.99	1.22	1.07	0.08	0.25
BROMOCHLOROMETHANE	1.00	1.11	1.07	1.07	1.09	1.07	1.05	1.05	1.07	0.02	0.07
BROMODICHLOROMETHANE	1.00	1.08	1.03	1.01	1.00	1.12	1.07	1.21	1.07	0.07	0.23
BROMOFORM	1.00	0.94	1.04	1.02	1.04	0.86	0.95	1.28	1.02	0.13	0.42
BROMOMETHANE	1.00	1.08	0.97	0.90	0.97	0.77	0.84	1.18	0.96	0.14	0.44
CARBON DISULFIDE	1.00	1.02	0.92	0.93	0.92	0.94	0.85	1.25	0.98	0.13	0.41
CARBON TETRACHLORIDE	1.00	1.05	1.01	1.05	1.13	1.03	1.00	1.47	1.11	0.17	0.52
CHLOROBENZENE	1.00	1.13	1.10	1.06	1.02	1.02	1.00	1.33	1.09	0.11	0.36
CHLOROETHANE	1.00	1.26	1.26	1.07	1.09	1.05	0.94	1.43	1.16	0.17	0.52
CHLOROFORM	1.00	0.93	0.90	0.96	0.97	0.92	0.88	1.21	0.97	0.11	0.35
CHLOROMETHANE	1.00	1.00	1.04	1.03	1.02	0.93	0.83	1.42	1.04	0.18	0.58
CIS-1,3-DICHLOROPROPENE	1.00	1.18	1.00	1.02	1.01	0.94	1.03	1.05	1.03	0.07	0.23
DIBROMOCHLOROMETHANE	1.00	1.01	1.10	1.03	1.11	1.07	0.93	1.27	1.07	0.11	0.33
DIBROMOMETHANE	1.00	0.94	1.09	1.05	0.96	1.05	0.93	1.08	1.01	0.07	0.22
DICHLORODIFLUOROMETHANE	1.00	1.07	0.99	1.08	1.03	1.08	0.97	1.16	1.05	0.06	0.20
DIETHYL ETHER	1.00	1.00	0.94	0.97	1.02	0.90	1.07	1.03	0.99	0.06	0.18
ETHYL METHACRYLATE	1.00	0.79	0.79	0.95	0.80	1.00	0.89	0.81	0.86	0.09	0.27
ETHYLBENZENE	1.00	1.08	0.98	1.02	0.98	0.97	0.97	1.37	1.05	0.15	0.46
FREON-113	1.00	1.10	0.93	0.87	0.94	0.95	0.97	1.01	0.97	0.07	0.23
HEXACHLOROBUTADIENE	1.00	1.08	1.20	1.04	1.04	0.92	1.02	1.35	1.09	0.14	0.44
ISOPROPYLBENZENE	1.00	1.11	1.03	1.01	0.98	0.96	0.95	1.32	1.05	0.13	0.41
M+P-XYLENE	2.00	2.24	2.03	2.13	2.03	1.95	1.97	2.66	2.14	0.25	0.78
METHYLENE CHLORIDE	1.00	1.39	1.47	1.40	1.56	1.25	1.35	1.50	1.42	0.10	0.32
MTBE	1.00	1.01	0.98	0.95	1.06	0.99	0.99	1.04	1.00	0.04	0.12
N-BUTYLBENZENE	1.00	1.05	0.97	0.98	0.93	0.91	0.90	1.28	1.00	0.13	0.42
N-PROPYLBENZENE	1.00	1.06	0.98	0.98	0.96	0.94	0.95	1.32	1.03	0.13	0.42
NAPHTHALENE	1.00	0.97	1.00	0.98	1.04	0.99	1.06	1.27	1.04	0.10	0.33
O-XYLENE	1.00	1.02	1.00	1.03	0.97	0.96	0.93	1.15	1.01	0.07	0.22
P-ISOPROPYLTOLUENE	1.00	1.06	0.99	1.05	0.96	0.93	0.91	1.35	1.04	0.15	0.47
SEC-BUTYLBENZENE	1.00	1.08	0.97	1.01	0.97	0.95	0.89	1.34	1.03	0.15	0.47
STYRENE	1.00	1.03	0.94	0.96	0.97	0.93	0.94	1.19	0.99	0.09	0.29
TERT-BUTYLBENZENE	1.00	1.19	1.02	1.01	0.98	0.96	0.95	1.38	1.07	0.16	0.50
TETRACHLOROETHENE	1.00	1.18	1.08	1.19	1.07	1.06	1.02	1.34	1.13	0.11	0.35
TETRAHYDROFURAN	5.00	5.00	4.29	3.33	2.64	3.75	3.17	3.32	3.64	0.79	2.47

Date: 1/31/2000 11:23:02 AM
Matrix: AQ
Compound List: 8260
Instrument: 5972-F

Katahdin Analytical Services
MDL Study

Dates of Analysis	Spike	Data Files
012700 and 020800	1.00,5.00	F3921-27 ;F4050-56

Analyst: KMC
Reviewed and Approved by: Date:
File: F0127MDL.XLS

Compound	Spike	F3921	F3922	F3923	F3924	F3925	F3926	F3927	AVG	STD DEV	MDL
TOLUENE	1.00	1.10	1.03	1.09	1.01	0.98	1.04	1.30	1.08	0.11	0.33
TRANS-1,3-DICHLOROPROPENE	1.00	1.00	1.03	1.08	1.01	1.01	1.01	1.18	1.05	0.07	0.20
TRICHLOROETHENE	1.00	1.11	0.97	1.04	1.06	1.01	0.99	1.33	1.07	0.12	0.39
TRICHLOROFLUOROMETHANE	1.00	1.09	0.95	1.06	1.00	1.07	1.05	1.23	1.06	0.09	0.27
VINYL ACETATE	1.00	0.92	0.83	0.86	0.86	1.07	0.64	0.64	0.83	0.15	0.48
VINYL CHLORIDE	1.00	1.04	0.99	0.93	0.86	0.82	0.82	1.19	0.95	0.14	0.42

Date: 1/5/2000 8:19:57 AM
Matrix: AQ
Compound List: 8260
Instrument: 5972-S

Katahdin Analytical Services
MDL Study

Dates of Analysis	Spike	Data Files
10400 AND 020400	1.00,2.00	S8093-95,S8098-S8100

S8542-748

Analyst: KMC
Reviewed and Approved by: JB Date: 020700
File: S0104MDL.XLS

Compound	Spike	S8093	S8094	S8095	S8096	S8098	S8099	S8100	AVG	STD DEV	MDL
1,1,1,2-TETRACHLOROETHANE	1.00	1.05	1.05	1.06	1.01	0.99	1.06	1.02	1.03	0.03	0.09
1,1,1-TRICHLOROETHANE	1.00	1.07	1.20	1.11	1.06	1.04	0.91	0.96	1.05	0.10	0.30
1,1,2,2-TETRACHLOROETHANE	1.00	0.97	1.07	1.01	0.97	1.05	1.05	0.97	1.01	0.04	0.14
1,1,2-TRICHLOROETHANE	1.00	0.94	1.14	1.12	1.09	1.10	1.04	0.98	1.06	0.07	0.24
1,1-DICHLOROETHANE	1.00	1.08	1.17	1.17	1.11	1.22	1.05	1.05	1.12	0.07	0.21
1,1-DICHLOROETHENE	2.00	1.99	1.60	1.94	1.52	1.84	1.75	1.66	1.76	0.18	0.55
1,1-DICHLOROPROPENE	1.00	1.22	1.26	1.15	1.23	1.20	1.06	1.12	1.18	0.07	0.22
1,2,3-TRICHLOROBENZENE	1.00	1.41	1.16	1.07	1.01	1.00	0.90	0.82	1.05	0.19	0.60
1,2,3-TRICHLOROPROPANE	1.00	1.41	1.12	1.27	1.12	1.19	1.15	1.06	1.19	0.12	0.37
1,2,4-TRICHLOROBENZENE	1.00	1.25	1.15	1.08	1.14	1.04	0.96	0.88	1.07	0.12	0.39
1,2,4-TRIMETHYLBENZENE	1.00	1.06	1.09	0.99	0.89	0.89	0.92	0.83	0.95	0.10	0.30
1,2-DIBROMO-3-CHLOROPROPANE	1.00	1.31	1.29	0.67	1.09	1.07	1.00	0.67	1.01	0.26	0.82
1,2-DIBROMOETHANE	1.00	0.97	0.98	0.90	0.96	1.02	1.06	1.07	0.99	0.06	0.19
1,2-DICHLOROBENZENE	1.00	1.18	1.19	1.14	1.10	1.06	0.97	0.97	1.09	0.09	0.29
1,2-DICHLOROETHANE	1.00	1.36	1.50	1.50	1.45	1.53	1.47	1.41	1.46	0.06	0.19
1,2-DICHLOROETHENE (CIS)	1.00	1.01	1.14	1.10	0.99	1.11	1.01	1.00	1.05	0.06	0.20
1,2-DICHLOROETHENE (TRANS)	1.00	1.06	1.23	1.11	1.11	1.02	0.99	1.00	1.07	0.08	0.26
1,2-DICHLOROPROPANE	1.00	0.96	1.10	1.08	1.09	1.03	1.01	1.00	1.04	0.05	0.17
1,3,5-TRICHLOROBENZENE	1.00	1.22	1.31	1.26	1.08	1.03	0.87	0.97	1.11	0.16	0.51
1,3,5-TRIMETHYLBENZENE	1.00	1.06	1.12	1.02	0.99	0.97	0.88	0.92	0.99	0.08	0.26
1,3-DICHLOROBENZENE	1.00	1.12	1.12	1.07	1.06	1.11	1.03	0.91	1.06	0.07	0.23
1,3-DICHLOROPROPANE	1.00	1.04	1.15	1.15	1.11	1.13	0.97	1.09	1.09	0.07	0.21
1,4-DICHLOROBENZENE	1.00	1.18	1.20	1.12	1.06	1.10	1.03	0.99	1.10	0.08	0.24
2,2-DICHLOROPROPANE	1.00	1.06	0.96	1.07	0.91	0.98	0.91	0.83	0.96	0.09	0.27
2-BUTANONE	1.00	1.18	1.26	1.00	1.05	0.87	1.19	0.79	1.05	0.17	0.55
2-CHLOROETHYLVINYLETHER	1.00	0.88	0.80	0.75	0.58	0.86	0.75	0.86	0.78	0.10	0.33
2-CHLOROTOLUENE	1.00	1.18	1.13	1.10	1.09	1.04	1.01	0.94	1.07	0.08	0.25
2-HEXANONE	1.00	0.93	0.78	1.06	0.66	0.91	0.78	0.85	0.85	0.13	0.41
4-CHLOROTOLUENE	1.00	1.11	1.08	1.04	1.00	1.00	0.96	0.91	1.01	0.07	0.22
4-METHYL-2-PENTANONE	1.00	0.86	1.11	1.03	0.89	1.10	0.99	1.06	1.01	0.10	0.31
ACETONE	1.00	1.09	1.24	1.01	1.00	1.15	1.46	0.88	1.12	0.19	0.60
ACROLEIN	1.00	1.33	0.75	0.67	1.43	0.75	1.13	0.87	0.99	0.31	0.96
ACRYLONITRILE	1.00	0.95	0.81	1.23	1.06	0.92	1.23	1.02	1.03	0.16	0.49
BENZENE	2.00	2.13	2.15	2.18	2.00	2.04	2.05	2.01	2.08	0.07	0.23

Date: 1/5/2000 8:19:57 AM
Matrix: AQ
Compound List: 8260
Instrument: 5972-S

Katahdin Analytical Services
MDL Study

Dates of Analysis	Spike	Data Files
10400 AND 020400	1.00,2.00	S8093-96,S8098-S8100

Analyst: KMC
Reviewed and Approved by: Date:
File: S0104MDL.XLS

Compound	Spike	S8093	S8094	S8095	S8096	S8098	S8099	S8100	AVG	STD DEV	MDL
BROMOBENZENE	1.00	1.09	1.15	1.10	1.08	1.08	1.03	1.08	1.09	0.04	0.11
BROMOCHLOROMETHANE	1.00	1.16	1.18	1.06	1.02	1.06	1.16	1.05	1.10	0.07	0.21
BROMODICHLOROMETHANE	1.00	0.99	1.07	1.01	1.07	1.05	0.96	1.05	1.03	0.04	0.13
BROMOFORM	1.00	0.80	0.97	0.94	0.86	0.90	0.83	0.96	0.89	0.07	0.21
BROMOMETHANE	1.00	1.01	1.19	0.94	1.18	0.92	1.19	0.93	1.05	0.13	0.41
CARBON DISULFIDE	1.00	1.13	1.21	1.07	1.07	1.08	1.04	0.99	1.08	0.07	0.22
CARBON TETRACHLORIDE	1.00	1.02	1.02	1.10	1.07	1.00	0.96	0.99	1.02	0.05	0.15
CHLOROBENZENE	1.00	1.45	1.54	1.50	1.52	1.44	1.40	1.34	1.46	0.07	0.22
CHLOROETHANE	1.00	1.18	1.36	1.18	1.24	1.18	1.23	1.15	1.22	0.07	0.22
CHLOROFORM	1.00	1.17	1.13	1.07	1.13	1.13	1.12	1.11	1.12	0.03	0.09
CHLOROMETHANE	1.00	1.08	1.14	1.12	1.23	1.08	1.17	1.07	1.13	0.06	0.18
CIS-1,3-DICHLOROPROPENE	1.00	1.08	1.02	0.99	0.91	0.89	0.90	0.87	0.95	0.08	0.25
DIBROMOCHLOROMETHANE	1.00	0.99	1.05	1.00	0.93	0.96	0.93	0.92	0.97	0.05	0.15
DIBROMOMETHANE	1.00	1.02	1.15	1.01	1.06	1.17	1.14	1.04	1.08	0.07	0.21
DICHLORODIFLUOROMETHANE	1.00	1.01	1.09	0.94	0.95	0.98	0.72	0.81	0.93	0.12	0.39
DIETHYL ETHER	1.00	1.16	1.16	1.10	0.93	1.07	1.09	1.05	1.08	0.08	0.25
ETHYLBENZENE	1.00	1.12	1.13	1.07	1.10	1.04	0.98	0.93	1.05	0.07	0.24
FREON-113	1.00	1.16	1.23	1.27	1.22	0.96	1.05	1.06	1.14	0.11	0.36
HEXACHLOROBUTADIENE	1.00	1.31	1.27	1.15	1.09	1.23	1.03	0.90	1.14	0.15	0.46
ISOPROPYLBENZENE	1.00	1.05	1.10	0.97	1.00	1.02	0.93	0.89	0.99	0.07	0.22
M+P-XYLENE	2.00	2.20	2.35	2.17	2.16	1.92	1.95	1.82	2.08	0.19	0.59
METHYLENE CHLORIDE	1.00	2.06	1.82	1.82	2.22	1.83	1.92	2.16	1.98	0.17	0.53
MTBE	1.00	1.10	1.08	1.10	1.10	1.11	1.07	1.10	1.09	0.01	0.04
N-BUTYLBENZENE	1.00	1.00	0.99	0.92	0.84	0.89	0.79	0.68	0.87	0.11	0.36
N-PROPYLBENZENE	1.00	1.08	1.05	1.03	0.96	0.97	0.94	0.86	0.98	0.08	0.24
NAPHTHALENE	1.00	1.17	1.02	0.88	0.92	0.82	0.84	0.88	0.93	0.12	0.39
O-XYLENE	1.00	0.96	1.08	0.98	1.02	0.95	1.00	0.97	0.99	0.04	0.14
P-ISOPROPYLTOLUENE	1.00	1.04	0.99	0.94	0.87	0.87	0.83	0.82	0.91	0.08	0.26
SEC-BUTYLBENZENE	1.00	1.07	1.02	1.04	0.98	0.94	0.89	0.86	0.97	0.08	0.25
STYRENE	1.00	0.92	0.97	0.88	0.81	0.86	0.76	0.87	0.87	0.07	0.22
TERT-BUTYLBENZENE	1.00	1.10	1.10	1.05	0.96	0.99	0.86	0.86	0.99	0.10	0.32
TETRACHLOROETHENE	1.00	1.16	1.25	1.10	1.14	1.02	1.04	0.94	1.09	0.10	0.32
TETRAHYDROFURAN	1.00	1.34	1.23	1.31	1.43	1.24	1.42	1.58	1.36	0.12	0.39
TOLUENE	2.00	2.29	2.14	2.32	2.19	2.15	2.11	2.07	2.18	0.09	0.29

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Matrix: AQ
Compound List: 8260
Instrument: 5972-S

Katahdin Analytical Services
MDL Study

Dates of Analysis	Spike	Data Files
10400 AND 020400	1.00,2.00	S8093-96,S8098-S8100

Analyst: KMC
Reviewed and Approved by: Date:
File: S0104MDL.XLS

Compound	Spike	S8093	S8094	S8095	S8096	S8098	S8099	S8100	AVG	STD DEV	MDL
TRANS-1,3-DICHLOROPROPENE	1.00	1.05	0.95	0.93	0.81	0.92	0.88	0.86	0.91	0.08	0.24
TRICHLOROETHENE	2.00	2.23	2.20	2.34	2.11	2.12	1.94	2.04	2.14	0.13	0.41
TRICHLOROFLUOROMETHANE	1.00	1.14	1.12	1.05	1.12	1.01	0.98	0.97	1.06	0.07	0.22
VINYL ACETATE	2.00	1.95	1.96	1.87	1.92	1.74	1.86	1.68	1.85	0.11	0.34
VINYL CHLORIDE	1.00	1.14	1.27	1.13	1.09	0.87	1.05	0.99	1.06	0.13	0.40

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Matrix: AQ
Compound List: 8260
Instrument: 5973-U

Katahdin Analytical Services
MDL Study

Dates of Analysis	Spike	Data Files
11,200,020,400	1.00,5.00	U2686-91,93

Analyst: KMC
Reviewed and Approved by: Date: 020112
File: U0112MDL.XLS

Compound	Spike	U2686	U2687	U2688	U2689	U2690	U2691	U2693	AVG	STD DEV	MDL
1,1,1,2-TETRACHLOROETHANE	1.00	0.82	0.99	0.94	0.87	0.91	0.87	0.88	0.90	0.06	0.17
1,1,1-TRICHLOROETHANE	1.00	0.89	1.13	1.01	1.00	1.24	1.01	1.01	1.04	0.11	0.35
1,1,2,2-TETRACHLOROETHANE	1.00	1.00	1.04	1.10	1.06	0.91	1.00	1.03	1.02	0.06	0.19
1,1,2-TRICHLOROETHANE	1.00	0.97	1.01	0.92	0.94	0.95	1.02	1.01	0.97	0.04	0.12
1,1-DICHLOROETHANE	1.00	1.00	1.08	1.13	1.14	1.40	1.17	1.15	1.15	0.12	0.39
1,1-DICHLOROETHENE	1.00	1.21	1.35	1.30	1.25	1.36	1.41	1.37	1.32	0.07	0.22
1,1-DICHLOROPROPENE	1.00	1.74	1.78	1.71	1.77	1.64	1.66	1.65	1.71	0.06	0.18
1,2,3-TRICHLOROBENZENE	1.00	0.55	0.57	0.55	0.55	0.51	0.51	0.61	0.55	0.03	0.11
1,2,3-TRICHLOROPROPANE	1.00	1.01	0.88	1.23	1.10	0.96	1.11	1.11	1.06	0.12	0.36
1,2,4-TRICHLOROBENZENE	1.00	0.57	0.57	0.59	0.59	0.58	0.51	0.61	0.57	0.03	0.10
1,2,4-TRIMETHYLBENZENE	1.00	0.58	0.60	0.62	0.57	0.59	0.57	0.59	0.59	0.02	0.06
1,2-DIBROMO-3-CHLOROPROPANE	1.00	1.09	1.09	1.22	1.11	0.93	0.86	0.80	1.01	0.15	0.48
1,2-DIBROMOETHANE	1.00	0.90	0.87	0.95	0.99	0.96	0.87	0.91	0.92	0.05	0.15
1,2-DICHLOROBENZENE	1.00	0.84	0.91	0.89	0.85	0.92	0.87	0.94	0.89	0.04	0.12
1,2-DICHLOROETHANE	1.00	1.33	1.35	1.40	1.45	1.40	1.33	1.38	1.38	0.04	0.14
1,2-DICHLOROETHENE (CIS)	1.00	0.90	1.02	0.92	0.91	0.93	0.92	0.95	0.94	0.04	0.13
1,2-DICHLOROETHENE (TRANS)	1.00	1.08	1.33	1.00	1.17	1.51	1.51	1.24	1.26	0.20	0.63
1,2-DICHLOROPROPANE	1.00	0.96	0.93	0.92	0.95	1.06	0.97	0.94	0.96	0.05	0.15
1,3,5-TRICHLOROBENZENE	1.00	1.07	1.06	1.20	1.10	0.88	0.90	0.89	0.99	0.17	0.54
1,3,5-TRIMETHYLBENZENE	1.00	0.64	0.65	0.68	0.64	0.64	0.64	0.66	0.65	0.02	0.05
1,3-DICHLOROBENZENE	1.00	0.82	0.87	0.85	0.84	0.90	0.89	0.85	0.86	0.03	0.09
1,3-DICHLOROPROPANE	1.00	0.97	0.88	0.99	0.90	0.96	0.95	0.93	0.94	0.04	0.12
1,4-DICHLOROBENZENE	1.00	0.99	0.99	1.04	1.00	1.10	1.05	1.06	1.03	0.04	0.13
2,2-DICHLOROPROPANE	1.00	1.01	1.03	1.03	1.06	1.12	0.98	1.02	1.04	0.04	0.14
2-BUTANONE	1.00	1.32	1.34	1.17	1.20	1.30	1.17	1.20	1.24	0.07	0.23
2-CHLOROETHYLVINYLETHER	5.00	0.77	2.78	2.82	1.98	0.89	2.08	1.08	1.77	0.87	2.73
2-CHLOROTOLUENE	1.00	0.81	0.86	0.85	0.83	0.79	0.81	0.84	0.83	0.02	0.08
2-HEXANONE	1.00	0.78	0.74	0.80	0.81	0.88	0.55	0.82	0.77	0.11	0.33
4-CHLOROTOLUENE	1.00	0.80	0.79	0.79	0.77	0.75	0.74	0.78	0.77	0.02	0.07
4-METHYL-2-PENTANONE	1.00	1.05	0.86	1.11	1.02	1.12	0.88	0.89	0.99	0.11	0.35
ACETONE	1.00	1.26	1.11	1.20	1.05	1.15	1.00	0.97	1.11	0.11	0.33
ACROLEIN	5.00	4.57	4.97	4.30	4.45	4.17	4.39	3.56	4.34	0.43	1.35
ACRYLONITRILE	1.00	1.47	1.45	1.06	1.42	1.01	1.32	1.23	1.28	0.19	0.59
BENZENE	1.00	0.89	0.84	0.97	0.92	1.06	1.00	0.92	0.94	0.07	0.23

Date: 1/12/2000 1:44:50 PM
Matrix: AQ
Compound List: 8260
Instrument: 5973-U

Katahdin Analytical Services
MDL Study

Dates of Analysis	Spike	Data Files
11,200,020,400	1.00,5.00	U2686-91,93

Analyst: KMC
Reviewed and Approved by: Date:
File: U0112MDL.XLS

Compound	Spike	U2686	U2687	U2688	U2689	U2690	U2691	U2693	AVG	STD DEV	MDL
BROMOBENZENE	1.00	0.97	1.05	1.00	0.95	1.01	0.98	0.97	0.99	0.03	0.10
BROMOCHLOROMETHANE	1.00	1.14	1.15	1.20	1.23	1.13	1.27	1.24	1.19	0.06	0.17
BROMODICHLOROMETHANE	1.00	1.04	0.95	0.95	0.91	0.98	0.92	0.89	0.95	0.05	0.16
BROMOFORM	1.00	0.81	0.76	0.80	0.85	0.67	0.74	0.74	0.77	0.06	0.18
BROMOMETHANE	1.00	1.40	1.23	1.23	1.29	1.26	1.48	1.35	1.32	0.09	0.30
CARBON DISULFIDE	1.00	1.32	1.33	1.38	1.31	1.62	1.48	1.43	1.41	0.11	0.35
CARBON TETRACHLORIDE	1.00	1.06	1.08	1.03	1.06	1.12	0.96	1.00	1.04	0.05	0.17
CHLOROBENZENE	1.00	0.98	1.03	1.01	1.00	1.11	1.09	1.02	1.03	0.05	0.15
CHLOROETHANE	1.00	1.06	1.22	1.35	1.11	1.24	1.62	1.40	1.29	0.19	0.60
CHLOROFORM	1.00	1.05	1.19	1.14	1.18	1.32	1.18	1.19	1.18	0.08	0.25
CHLOROMETHANE	1.00	1.30	1.42	1.34	1.14	1.45	1.73	1.41	1.40	0.18	0.56
CIS-1,3-DICHLOROPROPENE	1.00	0.70	0.72	0.77	0.70	0.65	0.65	0.66	0.69	0.04	0.14
DIBROMOCHLOROMETHANE	1.00	0.86	0.84	0.84	0.89	0.72	0.79	0.80	0.82	0.06	0.17
DIBROMOMETHANE	1.00	1.04	0.91	1.09	1.02	0.94	1.01	0.99	1.00	0.06	0.19
DICHLORODIFLUOROMETHANE	1.00	1.37	1.41	1.54	1.51	1.69	1.52	1.49	1.50	0.10	0.32
DIETHYL ETHER	1.00	1.28	1.17	1.11	1.15	1.40	1.18	1.11	1.20	0.11	0.33
ETHYLBENZENE	1.00	0.77	0.80	0.81	0.79	0.92	0.92	0.75	0.82	0.07	0.22
FREON-113	1.00	1.15	1.06	1.14	1.03	1.10	1.35	1.21	1.15	0.11	0.34
HEXACHLOROBUTADIENE	1.00	0.95	1.00	0.90	0.91	0.91	0.87	0.90	0.92	0.04	0.13
ISOPROPYLBENZENE	1.00	0.60	0.65	0.66	0.63	0.63	0.58	0.58	0.62	0.03	0.10
M+P-XYLENE	2.00	1.36	1.34	1.37	1.32	1.58	1.52	1.29	1.40	0.11	0.34
METHYLENE CHLORIDE	1.00	2.17	2.19	2.21	2.29	2.18	2.34	2.34	2.25	0.08	0.24
MTBE	1.00	1.07	0.97	1.27	1.20	1.30	1.21	1.16	1.17	0.12	0.36
N-BUTYLBENZENE	1.00	0.64	0.69	0.67	0.61	0.61	0.56	0.57	0.62	0.05	0.15
N-PROPYLBENZENE	1.00	0.77	0.81	0.82	0.79	0.77	0.75	0.75	0.78	0.03	0.09
NAPHTHALENE	1.00	0.38	0.36	0.36	0.36	0.30	0.32	0.36	0.35	0.03	0.09
O-XYLENE	1.00	0.59	0.60	0.64	0.58	0.65	0.65	0.54	0.61	0.04	0.13
P-ISOPROPYLTOLUENE	1.00	0.58	0.57	0.56	0.57	0.56	0.55	0.52	0.56	0.02	0.06
SEC-BUTYLBENZENE	1.00	0.62	0.67	0.64	0.60	0.64	0.63	0.63	0.63	0.02	0.07
STYRENE	1.00	0.58	0.57	0.57	0.56	0.58	0.62	0.59	0.58	0.02	0.06
TERT-BUTYLBENZENE	1.00	0.60	0.63	0.63	0.60	0.61	0.55	0.61	0.60	0.03	0.08
TETRACHLOROETHENE	1.00	1.15	1.12	1.17	1.13	1.25	1.15	1.01	1.14	0.07	0.22
TETRAHYDROFURAN	1.00	1.25	0.66	1.10	1.07	0.90	0.59	0.77	0.91	0.25	0.77
TOLUENE	1.00	1.03	1.11	1.11	1.09	1.15	1.10	1.07	1.09	0.04	0.12

Date: 1/12/2000 1:44:50 PM
Matrix: AQ
Compound List: 8260
Instrument: 5973-U

Katahdin Analytical Services
MDL Study

Dates of Analysis	Spike	Data Files
11,200,020,400	1.00,5.00	U2686-91,93

Analyst: KMC
Reviewed and Approved by: Date
File: U0112MDL.XLS

Compound	Spike	U2686	U2687	U2688	U2689	U2690	U2691	U2693	AVG	STD DEV	MDL
TRANS-1,3-DICHLOROPROPENE	1.00	0.70	0.74	0.68	0.67	0.82	0.69	0.69	0.71	0.05	0.16
TRICHLOROETHENE	1.00	0.98	0.92	0.98	0.90	1.09	1.01	0.97	0.98	0.06	0.19
TRICHLOROFLUOROMETHANE	1.00	1.24	1.28	1.41	1.35	1.38	1.37	1.36	1.34	0.06	0.19
VINYL ACETATE	1.00	0.63	0.52	0.51	0.44	0.57	0.38	0.30	0.48	0.11	0.36
VINYL CHLORIDE	1.00	1.36	1.41	1.36	1.29	1.53	1.42	1.46	1.40	0.08	0.24

Date: 2/10/2000 9:04:30 AM
Matrix: AQ
Compound List: 8260
Instrument: HP5970Q

Katahdin Analytical Services
MDL Study

Dates of Analysis	Spike	Data Files
20900	5	Q8425-Q8432

Analyst: HMP
Reviewed and Approved by JB Date 021000
File: Q82WMDL1.XLS

Compound	Spike	Q8425	Q8427	Q8428	Q8429	Q8430	Q8431	Q8432	AVG	STD DEV	MDL
1,1,1,2-TETRACHLOROETHANE	5.00	4.71	4.63	4.67	4.24	3.95	4.26	4.06	4.36	0.31	0.97
1,1,1-TRICHLOROETHANE	5.00	4.07	4.14	4.90	3.66	3.84	3.77	4.02	4.06	0.41	1.29
1,1,2,2-TETRACHLOROETHANE	5.00	4.82	5.09	5.32	5.27	4.93	5.11	4.97	5.07	0.18	0.57
1,1,2-TRICHLOROETHANE	5.00	4.68	4.71	5.01	5.10	4.50	4.76	5.01	4.82	0.22	0.69
1,1-DICHLOROETHANE	5.00	4.79	4.87	5.16	4.55	4.42	4.74	4.70	4.75	0.24	0.74
1,1-DICHLOROETHENE	5.00	4.02	4.22	4.94	3.32	3.72	3.37	4.05	3.95	0.56	1.75
1,1-DICHLOROPROPENE	5.00	7.58	7.73	8.14	7.37	7.44	7.40	7.91	7.65	0.29	0.91
1,2,3-TRICHLOROBENZENE	5.00	3.36	1.90	1.50	1.18	1.16	0.97	1.99	1.72	0.82	2.57
1,2,3-TRICHLOROPROPANE	5.00	5.11	5.08	5.24	4.57	5.13	4.77	5.25	5.02	0.25	0.80
1,2,4-TRICHLOROBENZENE	5.00	3.37	2.89	2.85	2.01	2.06	2.08	2.55	2.54	0.52	1.64
1,2,4-TRIMETHYLBENZENE	5.00	5.07	4.89	5.11	4.44	4.27	4.55	4.17	4.64	0.38	1.20
1,2-DIBROMO-3-CHLOROPROPANE	5.00	4.31	4.99	4.73	4.75	4.80	4.70	4.71	4.71	0.20	0.64
1,2-DIBROMOETHANE	5.00	4.23	4.33	4.48	4.46	4.21	4.42	4.40	4.36	0.11	0.34
1,2-DICHLOROBENZENE	5.00	5.13	5.34	5.34	4.63	4.69	4.21	4.50	4.83	0.44	1.38
1,2-DICHLOROETHANE	5.00	5.21	5.25	5.35	5.18	4.89	5.17	5.14	5.17	0.14	0.44
1,2-DICHLOROETHENE (CIS)	5.00	4.75	4.65	4.84	4.50	4.17	4.61	4.51	4.58	0.22	0.68
1,2-DICHLOROETHENE (TRANS)	5.00	4.41	4.44	4.67	4.00	3.78	4.07	4.11	4.21	0.31	0.96
1,2-DICHLOROPROPANE	5.00	4.87	5.07	5.31	4.98	4.77	4.84	4.72	4.94	0.20	0.64
1,3,5 TRICHLOROBENZENE	5.00	4.51	4.32	4.49	3.80	3.36	3.75	3.80	4.00	0.44	1.38
1,3,5-TRIMETHYLBENZENE	5.00	4.85	4.84	5.03	4.19	4.49	4.11	4.59	4.59	0.35	1.09
1,3-DICHLOROBENZENE	5.00	4.65	4.46	4.81	4.29	4.05	4.20	4.10	4.37	0.29	0.90
1,3-DICHLOROPROPANE	5.00	4.92	4.95	4.97	4.92	4.64	4.95	4.70	4.86	0.14	0.42
1,4-DICHLOROBENZENE	5.00	4.84	4.66	4.82	4.36	4.06	4.22	4.27	4.46	0.31	0.98
1-CHLOROHEXANE	5.00	6.40	5.28	6.64	5.74	5.90	5.80	5.85	5.94	0.45	1.41
2,2-DICHLOROPROPANE	5.00	4.46	4.59	5.28	4.12	4.25	3.78	4.27	4.39	0.47	1.47
2-BUTANONE	5.00	6.42	10.42	8.09	8.85	8.48	9.19	9.82	8.75	1.30	4.07
2-CHLOROETHYLVINYLETHER	5.00	3.42	3.61	3.84	4.06	3.55	3.89	4.40	3.82	0.34	1.06
2-CHLOROTOLUENE	5.00	3.71	3.83	4.04	3.21	3.03	3.13	4.34	3.61	0.50	1.57
2-HEXANONE	5.00	6.16	5.09	4.01	5.05	5.65	6.04	6.45	5.49	0.84	2.64
4-CHLOROTOLUENE	5.00	4.96	4.90	4.46	4.58	4.14	4.28	3.75	4.44	0.43	1.34
4-METHYL-2-PENTANONE	5.00	6.37	5.53	6.51	6.07	7.09	6.81	6.11	6.36	0.52	1.62
ACETONE	5.00	10.13	9.71	8.32	9.62	10.75	8.30	9.48	9.47	0.90	2.82
ACROLEIN	5.00	2.09	4.18	4.98	4.82	3.66	3.59	3.67	3.86	0.96	3.03
ACRYLONITRILE	5.00	2.54	3.09	4.34	5.58	4.07	4.87	4.20	4.10	1.03	3.22

Date: 2/10/2000 9:04:30 AM
Matrix: AQ
Compound List: 8260
Instrument: HP5970Q

Katahdin Analytical Services
MDL Study

Dates of Analysis	Spike	Data Files
20900	5	Q8425-Q8432

Analyst: HMP
Reviewed and Approved by. Date
File: Q82WMDL1.XLS

Compound	Spike	Q8425	Q8427	Q8428	Q8429	Q8430	Q8431	Q8432	AVG	STD DEV	MDL
BENZENE	5.00	4.58	4.72	5.00	4.34	4.14	4.54	4.49	4.54	0.27	0.86
BROMOBENZENE	5.00	4.62	4.74	4.59	4.42	3.95	4.40	3.90	4.37	0.33	1.03
BROMOCHLOROMETHANE	5.00	4.57	4.71	4.78	4.26	4.50	4.75	4.77	4.62	0.19	0.60
BROMODICHLOROMETHANE	5.00	4.67	4.77	4.82	4.45	4.43	4.53	4.48	4.59	0.16	0.50
BROMOFORM	5.00	4.09	4.21	4.35	4.18	3.99	4.19	3.94	4.14	0.14	0.44
BROMOMETHANE	5.00	5.17	4.86	5.16	4.83	4.36	4.69	4.76	4.83	0.28	0.88
CARBON DISULFIDE	5.00	4.29	4.29	4.88	3.68	3.90	3.71	4.25	4.14	0.42	1.32
CARBON TETRACHLORIDE	5.00	3.99	3.97	4.90	3.44	3.84	3.64	4.21	4.00	0.47	1.48
CHLOROBENZENE	5.00	4.60	4.68	4.81	4.29	3.93	4.40	4.08	4.43	0.35	1.10
CHLOROETHANE	5.00	4.24	4.65	5.10	4.10	4.31	3.99	4.46	4.41	0.38	1.18
CHLOROFORM	5.00	4.85	4.84	4.97	4.48	4.41	4.80	4.54	4.70	0.22	0.68
CHLOROMETHANE	5.00	4.24	4.65	5.32	4.53	4.89	4.52	5.03	4.74	0.36	1.14
CIS-1,3-DICHLOROPROPENE	5.00	4.67	4.52	4.72	4.53	4.07	4.38	4.18	4.44	0.24	0.76
DIBROMOCHLOROMETHANE	5.00	4.46	4.61	4.62	4.32	4.06	4.41	4.12	4.37	0.22	0.69
DIBROMOMETHANE	5.00	4.60	4.55	4.65	4.16	4.39	4.68	4.57	4.51	0.18	0.57
DICHLORODIFLUOROMETHANE	5.00	3.19	3.11	4.43	2.53	3.22	2.64	3.93	3.29	0.68	2.13
DIETHYL ETHER	5.00	5.09	5.11	5.28	5.07	5.22	5.35	5.41	5.22	0.13	0.42
ETHYLBENZENE	5.00	4.65	4.79	4.95	4.03	4.14	4.21	4.16	4.42	0.37	1.16
FREON-113	5.00	4.94	4.88	4.92	3.82	4.03	4.20	4.07	4.41	0.49	1.53
HEXACHLOROBUTADIENE	5.00	4.37	4.18	4.60	3.43	3.57	3.47	3.60	3.89	0.48	1.51
ISOPROPYLBENZENE	5.00	4.72	4.73	5.26	4.22	4.33	4.22	4.42	4.56	0.38	1.18
M+P-XYLENE	5.00	9.14	9.19	9.65	8.05	7.78	8.39	8.29	8.64	0.69	2.16
METHYLENE CHLORIDE	5.00	6.69	6.86	7.07	6.54	6.61	7.00	7.50	7.18	0.70	2.20
MTBE	5.00	4.72	5.18	5.12	5.06	5.16	5.19	5.21	5.09	0.17	0.54
N-BUTYLBENZENE	5.00	4.81	4.67	5.04	4.04	4.25	3.80	4.25	4.41	0.44	1.40
N-PROPYLBENZENE	5.00	4.73	4.82	5.39	4.13	4.32	4.01	4.42	4.55	0.47	1.49
NAPHTHALENE	5.00	2.34	1.40	1.29	1.17	1.00	1.20	1.74	1.45	0.46	1.43
O-XYLENE	5.00	4.81	4.99	4.98	4.07	4.17	4.53	4.29	4.55	0.38	1.21
P-ISOPROPYLTOLUENE	5.00	4.82	4.82	5.31	4.28	4.40	3.96	4.41	4.57	0.44	1.40
SEC-BUTYLBENZENE	5.00	4.74	4.60	5.28	4.03	3.94	3.79	4.21	4.37	0.53	1.66
STYRENE	5.00	4.53	4.68	4.65	4.08	3.86	4.10	3.84	4.25	0.36	1.14
TERT-BUTYLBENZENE	5.00	4.75	4.70	5.29	4.23	4.17	4.06	4.25	4.49	0.44	1.38
TETRACHLOROETHENE	5.00	4.21	4.20	4.38	3.44	3.60	3.39	3.81	3.86	0.40	1.27
TETRAHYDROFURAN	5.00	5.44	4.60	4.39	5.76	5.49	5.13	5.41	5.17	0.50	1.58

Date: 2/10/2000 9:04:30 AM
Matrix: AQ
Compound List: 8260
Instrument: HP5970Q

Katahdin Analytical Services
MDL Study

Dates of Analysis	Spike	Data Files
20900	5	Q8425-Q8432

Analyst: HMP
Reviewed and Approved by: Date.
File: Q82WMDL1.XLS

Compound	Spike	Q8425	Q8427	Q8428	Q8429	Q8430	Q8431	Q8432	AVG	STD DEV	MDL
TOLUENE	5.00	4.38	4.50	4.87	4.14	3.98	4.17	4.19	4.32	0.30	0.93
TRANS-1,3-DICHLOROPROPENE	5.00	4.44	4.60	4.71	4.18	4.27	4.37	4.26	4.40	0.19	0.61
TRICHLOROETHENE	5.00	4.45	4.40	4.79	3.87	3.89	3.75	4.03	4.17	0.38	1.20
TRICHLOROFLUOROMETHANE	5.00	3.60	3.57	4.81	2.92	3.82	3.02	4.09	3.69	0.64	2.03
VINYL ACETATE	5.00	5.32	5.01	5.25	5.53	5.69	5.90	5.60	5.47	0.30	0.94
VINYL CHLORIDE	5.00	4.08	4.13	5.12	3.44	3.76	3.69	4.41	4.09	0.56	1.75

Date: 2/11/2000 7:46:16 AM
Matrix: AQ
Compound List: 8260 5ML
Instrument: 5972-M

Katahdin Analytical Services
MDL Study

Dates of Analysis	Spike	Data Files
21000 and 021100	1.00; 2.00	M3696-3 .

Analyst: KMC
Reviewed and Approved by: Date 021400
File: M0210MDL.XLS

Compound	Spike	M3696	M3697	M3698	M3699	M3700	M3701	M3702	AVG	STD DEV	MDL
1,1,1,2-TETRACHLOROETHANE	1.00	0.92	0.90	0.99	0.92	0.85	0.90	0.92	0.91	0.04	0.13
1,1,1-TRICHLOROETHANE	1.00	0.96	0.95	0.95	0.86	0.85	0.98	1.04	0.94	0.07	0.21
1,1,2,2-TETRACHLOROETHANE	1.00	0.73	0.67	0.75	0.72	0.73	0.68	0.66	0.71	0.04	0.11
1,1,2-TRICHLOROETHANE	1.00	0.92	0.71	0.81	0.82	0.77	0.89	0.82	0.82	0.07	0.22
1,1-DICHLOROETHANE	1.00	1.07	1.01	1.04	0.96	0.95	1.03	1.04	1.01	0.04	0.14
1,1-DICHLOROETHENE	1.00	0.95	0.98	0.94	0.86	0.81	0.92	1.03	0.93	0.07	0.23
1,1-DICHLOROPROPENE	1.00	1.03	1.06	1.10	1.00	0.95	1.06	1.16	1.05	0.07	0.21
1,2,3-TRICHLOROBENZENE	1.00	0.59	0.54	0.57	0.56	0.52	0.55	0.60	0.56	0.03	0.09
1,2,3-TRICHLOROPROPANE	1.00	0.66	0.55	0.63	0.65	0.60	0.58	0.57	0.61	0.04	0.13
1,2,4-TRICHLOROBENZENE	1.00	0.74	0.67	0.75	0.73	0.64	0.74	0.75	0.72	0.04	0.14
1,2,4-TRIMETHYLBENZENE	1.00	0.99	0.91	0.94	0.88	0.80	0.99	0.99	0.93	0.07	0.22
1,2-DIBROMO-3-CHLOROPROPANE	1.00	0.38	0.20	0.47	0.57	0.51	0.52	0.58	0.46	0.13	0.42
1,2-DIBROMOETHANE	1.00	0.71	0.69	0.78	0.79	0.71	0.72	0.76	0.74	0.04	0.12
1,2-DICHLOROBENZENE	1.00	0.95	0.83	0.89	0.91	0.81	0.93	0.95	0.90	0.06	0.18
1,2-DICHLOROETHANE	1.00	1.06	1.08	1.10	1.18	1.14	1.14	1.06	1.11	0.05	0.14
1,2-DICHLOROETHENE (CIS)	1.00	0.97	0.93	1.00	0.91	0.88	0.95	1.01	0.95	0.05	0.15
1,2-DICHLOROETHENE (TRANS)	1.00	0.99	0.95	0.98	0.91	0.91	0.94	1.03	0.96	0.04	0.14
1,2-DICHLOROPROPANE	1.00	1.07	1.00	1.01	1.07	0.97	1.07	1.02	1.03	0.04	0.13
1,3,5-TRICHLOROBENZENE	1.00	0.83	0.88	0.81	0.76	0.74	0.78	0.83	0.80	0.05	0.15
1,3,5-TRIMETHYLBENZENE	1.00	0.97	0.90	0.94	0.88	0.79	0.96	1.00	0.92	0.07	0.22
1,3-DICHLOROBENZENE	1.00	1.03	0.94	0.99	0.89	0.84	0.96	1.02	0.95	0.07	0.22
1,3-DICHLOROPROPANE	1.00	0.86	0.78	0.82	0.85	0.72	0.84	0.77	0.81	0.05	0.16
1,4-DICHLOROBENZENE	1.00	1.02	0.92	1.00	0.97	0.84	0.98	0.97	0.96	0.06	0.19
2,2-DICHLOROPROPANE	1.00	0.75	0.62	0.61	0.62	0.63	0.63	0.64	0.64	0.05	0.15
2-BUTANONE	1.00	0.82	0.54	0.64	0.69	0.66	0.58	0.67	0.67	0.07	0.23
2-CHLOROETHYLVINYLETHER	2.00	0.71	0.46	0.69	0.47	0.50	0.57	0.88	0.61	0.16	0.49
2-CHLOROTOLUENE	1.00	1.04	0.96	1.01	0.91	0.87	1.01	1.05	0.98	0.07	0.21
2-HEXANONE	1.00	0.67	0.69	0.66	0.75	0.60	0.63	0.49	0.64	0.08	0.26
4-CHLOROTOLUENE	1.00	1.01	0.95	0.98	0.93	0.88	0.98	1.08	0.97	0.06	0.20
4-METHYL-2-PENTANONE	1.00	0.86	0.68	0.72	0.74	0.74	0.77	0.59	0.73	0.08	0.26
ACETONE	1.00	1.34	1.25	1.18	1.17	1.41	1.43	1.31	1.30	0.10	0.33
ACROLEIN	1.00	0.21	0.49	1.13	0.41	0.43	0.53	0.48	0.53	0.29	0.90
ACRYLONITRILE	1.00	0.52	0.47	0.56	0.72	0.49	0.41	0.21	0.48	0.15	0.49
BENZENE	1.00	1.16	1.14	1.11	1.01	1.00	1.09	1.22	1.10	0.08	0.25

Date: 2/11/2000 7:46:16 AM
Matrix: AQ
Compound List: 8260 5ML
Instrument: 5972-M

Katahdin Analytical Services
MDL Study

Dates of Analysis	Spike	Data Files
21000 and 021100	1.00; 2.00	M3696-3 .

Analyst: KMC
Reviewed and Approved by: Date:
File: M0210MDL.XLS

Compound	Spike	M3696	M3697	M3698	M3699	M3700	M3701	M3702	AVG	STD DEV	MDL
BROMOBENZENE	1.00	0.93	0.86	0.91	0.90	0.84	1.00	0.95	0.91	0.05	0.17
BROMOCHLOROMETHANE	1.00	1.00	0.77	0.80	0.97	0.80	0.97	0.86	0.88	0.10	0.30
BROMODICHLOROMETHANE	1.00	0.94	0.87	0.89	0.89	0.84	0.96	0.89	0.90	0.04	0.13
BROMOFORM	1.00	0.71	0.66	0.74	0.70	0.54	0.60	0.66	0.66	0.07	0.22
BROMOMETHANE	1.00	0.52	0.57	0.49	0.66	0.60	0.56	0.51	0.56	0.06	0.18
CARBON DISULFIDE	1.00	1.18	1.15	1.08	1.06	1.03	1.16	1.24	1.13	0.07	0.23
CARBON TETRACHLORIDE	1.00	0.97	0.94	0.93	0.83	0.82	0.93	0.99	0.92	0.07	0.21
CHLOROBENZENE	1.00	1.06	1.01	1.06	0.98	0.94	1.05	1.10	1.03	0.05	0.17
CHLOROETHANE	1.00	1.42	1.37	1.05	1.11	0.98	1.05	1.10	1.15	0.17	0.54
CHLOROFORM	1.00	1.06	0.94	1.03	1.00	0.90	1.04	1.07	1.01	0.06	0.20
CHLOROMETHANE	1.00	0.94	1.02	0.95	0.90	0.90	0.85	1.06	0.95	0.07	0.23
CIS-1,3-DICHLOROPROPENE	1.00	0.71	0.69	0.75	0.76	0.65	0.75	0.77	0.73	0.04	0.14
DIBROMOCHLOROMETHANE	1.00	0.75	0.72	0.79	0.82	0.77	0.79	0.78	0.77	0.03	0.10
DIBROMOMETHANE	1.00	0.81	0.75	0.81	0.88	0.76	0.79	0.79	0.80	0.04	0.13
DICHLORODIFLUOROMETHANE	1.00	0.67	0.67	0.61	0.62	0.59	0.70	0.78	0.66	0.06	0.20
DIETHYL ETHER	1.00	0.73	0.81	0.69	0.71	0.79	0.64	0.70	0.72	0.06	0.18
ETHYLBENZENE	1.00	1.07	0.99	1.01	0.96	0.91	1.00	1.11	1.01	0.07	0.21
FREON-113	1.00	0.95	0.99	0.98	0.82	0.89	0.88	1.02	0.93	0.07	0.22
HEXACHLOROBUTADIENE	1.00	0.99	0.86	0.77	0.84	0.67	0.87	0.85	0.84	0.10	0.31
ISOPROPYLBENZENE	1.00	1.03	0.92	0.95	0.89	0.84	0.98	1.07	0.95	0.08	0.25
M+P-XYLENE	2.00	2.18	2.05	2.02	2.00	1.80	2.09	2.17	2.04	0.13	0.40
METHYLENE CHLORIDE	2.00	2.61	2.53	2.59	2.58	2.87	2.53	2.35	2.58	0.15	0.49
MTBE	1.00	0.68	0.65	0.71	0.73	0.67	0.70	0.66	0.69	0.03	0.09
N-BUTYLBENZENE	1.00	0.92	0.82	0.85	0.76	0.71	0.82	0.87	0.82	0.07	0.22
N-PROPYLBENZENE	1.00	0.96	0.92	0.92	0.85	0.80	0.96	1.01	0.92	0.07	0.22
NAPHTHALENE	1.00	0.32	0.31	0.34	0.33	0.30	0.31	0.30	0.32	0.02	0.05
O-XYLENE	1.00	1.08	1.03	1.04	1.01	0.92	1.06	1.10	1.03	0.06	0.18
P-ISOPROPYLTOLUENE	1.00	0.93	0.88	0.86	0.80	0.74	0.89	0.94	0.86	0.07	0.22
SEC-BUTYLBENZENE	1.00	0.94	0.89	0.87	0.81	0.77	0.94	0.98	0.89	0.08	0.24
STYRENE	1.00	0.90	0.91	0.90	0.88	0.80	0.95	0.93	0.90	0.05	0.15
TERT-BUTYLBENZENE	1.00	1.00	0.93	0.93	0.88	0.82	0.93	0.99	0.93	0.06	0.19
TETRACHLOROETHENE	1.00	1.04	1.00	0.97	0.98	0.86	1.03	1.08	0.99	0.07	0.22
TETRAHYDROFURAN	1.00	1.14	0.99	1.08	1.01	0.93	0.86	0.99	1.00	0.09	0.29
TOLUENE	1.00	1.13	1.07	1.11	1.08	1.02	1.16	1.19	1.11	0.06	0.18

Date: 2/11/2000 7:46:16 AM
Matrix: AQ
Compound List: 8260 5ML
Instrument: 5972-M

Katahdin Analytical Services
MDL Study

Dates of Analysis	Spike	Data Files
21000 and 021100	1.00; 2.00	M3696-3 ,

Analyst: KMC
Reviewed and Approved by Date:
File: M0210MDL.XLS

Compound	Spike	M3696	M3697	M3698	M3699	M3700	M3701	M3702	AVG	STD DEV	MDL
TRANS-1,3-DICHLOROPROPENE	1.00	0.61	0.56	0.61	0.64	0.59	0.63	0.61	0.61	0.03	0.08
TRICHLOROETHENE	1.00	1.07	1.06	1.08	0.93	0.96	1.10	1.20	1.06	0.09	0.28
TRICHLOROFLUOROMETHANE	1.00	0.93	0.88	0.82	0.79	0.78	0.99	1.01	0.89	0.09	0.30
VINYL ACETATE	1.00	0.30	0.18	0.19	0.21	0.08	0.16	0.14	0.18	0.07	0.21
VINYL CHLORIDE	1.00	0.87	0.88	0.76	0.75	0.69	0.83	0.90	0.81	0.08	0.25

Date: 1/28/2000 2:13:20 PM
Matrix: Low level waters, extracted by method 3520
Compound List: 8270-TCL-B
Instrument: 5970-X

Katahdin Analytical Services
MDL Study

Dates of Analysis	Spike	Data Files
various	50 ug/L	various
01/20/00	10/20 ug/L	X4283-88,X4290
01/19/00, 01/20/00	2/4 ug/L	X4275, 77, 78, 80-82, 91

Analyst: SW File: 3520-827.xls
Reviewed and Approved by: Date: 050202 (phenol needs to be redone)

		X4544	X4460	X4385	X3118	X2965	X2964	X2922			
		X4283	X4284	X4285	X4286	X4287	X4288	X4290			
Compound	Spike	X4275	X4277	X4278	X4280	X4281	X4282	X4291	AVG	STD DEV	MDL
1,2,4-TRICHLOROBENZENE	2.00	1.36	1.30	1.42	1.54	1.11	1.34	1.26	1.33	0.13	0.42
1,2-DICHLOROBENZENE	2.00	1.30	1.43	1.35	1.45	1.18	1.27	1.36	1.33	0.09	0.29
1,2-DIPHENYLHYDRAZINE	2.00	1.34	1.15	1.20	1.23	1.07	1.17	1.26	1.20	0.09	0.27
1,3-DICHLOROBENZENE	2.00	1.34	1.20	1.33	1.11	1.07	1.15	1.25	1.21	0.10	0.33
1,4-DICHLOROBENZENE	2.00	1.39	1.15	1.38	1.30	1.17	1.20	1.36	1.28	0.10	0.33
1,4-DIOXANE	2.00	1.64	1.43	1.43	1.91	1.42	1.58	1.54	1.56	0.17	0.55
2,2'-OXYBIS(1-CHLOROPROPANE)	2.00	1.82	1.63	1.83	1.85	1.34	1.64	1.71	1.69	0.18	0.56
2,4,5-TRICHLOROPHENOL	4.00	1.91	2.15	2.39	2.39	1.99	2.29	2.29	2.20	0.19	0.60
2,4,6-TRICHLOROPHENOL	4.00	2.11	2.24	2.09	2.88	1.79	2.47	2.39	2.28	0.35	1.08
2,4-DICHLOROPHENOL	4.00	2.00	2.30	2.01	2.45	2.05	2.37	2.38	2.22	0.20	0.61
2,4-DIMETHYLPHENOL	4.00	1.59	1.71	1.87	1.73	0.87	1.29	1.32	1.48	0.34	1.08
2,4-DINITROPHENOL	20.00	5.62	8.69	6.94	7.64	2.71	8.00	9.49	7.01	2.26	7.12
2,4-DINITROTOLUENE	2.00	0.47	0.54	0.45	0.38	0.20	0.36	0.39	0.40	0.11	0.34
2,6-DINITROTOLUENE	2.00	0.41	0.51	0.59	0.41	0.43	0.31	0.66	0.47	0.12	0.38
2-CHLORONAPHTHALENE	2.00	1.80	1.60	1.76	1.56	1.40	1.80	1.82	1.68	0.16	0.50
2-CHLOROPHENOL	4.00	2.25	2.08	1.90	2.94	2.44	2.69	2.64	2.42	0.37	1.15
2-METHYLNAPHTHALENE	2.00	1.44	1.46	1.62	1.38	1.16	1.35	1.42	1.40	0.14	0.43
2-METHYLPHENOL	4.00	2.61	2.55	2.47	2.75	1.98	2.51	2.58	2.49	0.24	0.76
2-NITROANILINE	2.00	0.51	0.49	0.62	0.45	0.39	0.41	0.54	0.49	0.08	0.25
2-NITROPHENOL	4.00	1.46	1.45	1.29	1.91	1.38	1.62	1.91	1.57	0.25	0.79
3,3'-DICHLOROBENZIDINE	10.00	0.74	1.36	1.23	2.02	2.83	1.03	1.39	1.51	0.70	2.20
3-NITROANILINE	10.00	1.94	3.35	3.20	4.03	5.02	3.27	3.44	3.46	0.93	2.92
4,6-DINITRO-2-METHYLPHENOL	20.00	12.93	17.24	13.53	14.71	16.98	14.50	15.57	15.07	1.63	5.13
4-BROMOPHENYL-PHENYLETHER	2.00	1.35	1.51	1.59	1.43	1.38	1.63	1.60	1.50	0.11	0.36
4-CHLORO-3-METHYLPHENOL	2.00	2.33	2.28	2.47	2.27	1.95	2.38	2.31	2.28	0.16	0.51
4-CHLOROANILINE	2.00	0.33	0.16	0.11	0.11	0.05	0.14	0.38	0.18	0.12	0.39
4-CHLOROPHENYL-PHENYLETHER	2.00	1.39	1.50	1.73	1.62	1.29	1.42	1.57	1.50	0.15	0.47
4-METHYLPHENOL	4.00	2.41	2.14	2.30	2.48	1.91	2.42	2.46	2.30	0.21	0.66
4-NITROANILINE	10.00	3.29	4.37	3.96	4.15	4.50	4.14	4.24	4.09	0.39	1.24
4-NITROPHENOL	4.00	0.69	0.97	1.14	0.83	0.38	0.87	0.59	0.78	0.25	0.79
ACENAPHTHENE	2.00	1.50	1.48	1.52	1.44	1.19	1.42	1.44	1.43	0.11	0.35
ACENAPHTHYLENE	2.00	1.30	1.30	1.39	1.27	0.98	1.31	1.32	1.27	0.13	0.41
ANILINE	2.00	0.39	0.13	0.11	0.19	0.08	0.19	0.33	0.20	0.12	0.36
ANTHRACENE	2.00	1.49	1.48	1.41	1.41	1.30	1.34	1.41	1.41	0.07	0.22

Date: 1/28/2000 2:13:20 PM

Matrix: Low level waters, extracted by method 3520

Compound List: 8270-TCL-B

Instrument: 5970-X

Katahdin Analytical Services
MDL Study

Dates of Analysis	Spike	Data Files
various	50 ug/L	various
01/20/00	10/20 ug/L	X4283-88,X4290
01/19/00, 01/20/00	2/4 ug/L	X4275, 77, 78, 80-82, 91

Analyst: SW File: 3520-827.xls

Reviewed and Approved by: Date:

		X4544	X4460	X4385	X3118	X2965	X2964	X2922			
		X4283	X4284	X4285	X4286	X4287	X4288	X4290			
Compound	Spike	X4275	X4277	X4278	X4280	X4281	X4282	X4291	AVG	STD DEV	MDL
BENZIDINE	50.00	16.60	32.87	19.01	30.29	27.71	19.08	28.97	24.93	6.51	20.47
BENZO[A]ANTHRACENE	2.00	1.55	1.62	1.55	1.41	1.50	1.46	1.49	1.51	0.07	0.22
BENZO[A]PYRENE	2.00	0.95	1.19	0.88	0.86	0.86	0.84	1.00	0.94	0.12	0.39
BENZO[B]FLUORANTHENE	2.00	0.99	1.13	1.06	0.98	0.92	0.95	1.03	1.01	0.07	0.22
BENZO[G,H,I]PERYLENE	2.00	1.19	1.19	1.11	0.77	0.82	0.96	0.93	1.00	0.17	0.54
BENZO[K]FLUORANTHENE	2.00	1.66	1.81	1.56	1.56	0.92	1.44	1.57	1.50	0.28	0.88
BENZOIC ACID	4.00	0.31	0.25	0.55	0.14	0.32	0.50	0.28	0.34	0.14	0.45
BENZYL ALCOHOL	2.00	1.18	0.92	1.49	1.48	1.21	1.32	1.76	1.34	0.27	0.85
BIS (2-ETHYLHEXYL) ADIPATE	2.00	0.60	0.79	0.64	0.47	0.50	0.61	0.71	0.62	0.11	0.35
BIS(2-CHLOROETHOXY)METHANE	2.00	1.37	1.36	1.49	1.32	1.11	1.34	1.29	1.33	0.11	0.36
BIS(2-CHLOROETHYL)ETHER	2.00	1.66	1.36	1.50	1.44	1.13	1.28	1.43	1.40	0.17	0.53
BIS(2-ETHYLHEXYL)PHTHALATE	10.00	8.23	8.38	7.35	7.63	9.23	9.84	8.19	8.41	0.87	2.73
BUTYLBENZYLPHTHALATE	2.00	0.86	1.07	0.95	0.77	0.89	0.88	0.92	0.91	0.09	0.29
CARBAZOLE	2.00	1.55	1.51	1.57	1.56	1.24	1.35	1.37	1.45	0.13	0.41
CHRYSENE	2.00	1.64	1.64	1.56	1.55	1.50	1.53	1.52	1.56	0.06	0.18
DI-N-BUTYLPHTHALATE	2.00	1.49	1.64	1.91	1.57	1.49	1.88	1.65	1.66	0.17	0.54
DI-N-OCTYLPHTHALATE	2.00	0.51	0.71	0.61	0.63	0.58	0.57	0.59	0.60	0.06	0.19
DIBENZ[A,H]ANTHRACENE	2.00	0.71	0.80	0.77	0.61	0.52	0.60	0.65	0.67	0.10	0.31
DIBENZOFURAN	2.00	1.45	1.39	1.68	1.47	1.15	1.43	1.52	1.44	0.16	0.50
DIETHYL ADIPATE	2.00	1.24	1.46	1.53	1.41	1.16	1.34	1.52	1.38	0.14	0.44
DIETHYLPHTHALATE	2.00	1.77	2.11	3.40	2.07	1.43	1.75	2.09	2.09	0.63	1.98
DIMETHYL PHTHALATE	2.00	1.54	1.75	1.65	1.54	1.31	1.55	1.60	1.56	0.13	0.42
FLUORANTHENE	2.00	1.57	1.55	1.60	1.66	1.33	1.45	1.30	1.49	0.14	0.43
FLUORENE	2.00	1.43	1.42	1.56	1.36	1.10	1.32	1.38	1.37	0.14	0.44
HEXACHLOROBENZENE	2.00	1.47	1.65	1.68	1.44	1.38	1.57	1.68	1.55	0.12	0.39
HEXACHLOROBUTADIENE	2.00	1.16	1.25	1.33	1.32	1.09	1.38	1.41	1.28	0.12	0.37
HEXACHLOROCYCLOPENTADIENE	10.00	0.54	0.93	0.73	1.35	1.53	1.57	1.25	1.13	0.40	1.26
HEXACHLOROETHANE	2.00	1.02	1.04	1.32	1.21	0.93	0.97	1.17	1.09	0.14	0.45
INDENO[1,2,3-CD]PYRENE	2.00	0.87	0.99	0.93	0.62	0.71	0.70	0.75	0.80	0.14	0.43
ISOPHORONE	2.00	1.46	1.40	1.44	1.33	1.12	1.25	1.38	1.34	0.12	0.38
N-NITROSO-DI-N-PROPYLAMINE	2.00	1.35	1.33	1.37	1.14	0.91	1.00	1.35	1.21	0.19	0.60
N-NITROSODIMETHYLAMINE	2.00	0.23	0.44	0.88	0.51	0.36	1.37	0.86	0.66	0.40	1.24
N-NITROSODIPHENYLAMINE	2.00	3.04	3.31	3.17	2.98	2.84	2.81	3.18	3.05	0.19	0.58
NAPHTHALENE	2.00	1.47	1.41	1.53	1.70	1.32	1.36	1.40	1.46	0.13	0.40

Date: 1/28/2000 2:13:20 PM

Matrix: Low level waters, extracted by method 3520

Compound List: 8270-TCL-B

Instrument: 5970-X

Katahdin Analytical Services
MDL Study

Dates of Analysis	Spike	Data Files
various	50 ug/L	various
01/20/00	10/20 ug/L	X4283-88,X4290
01/19/00, 01/20/00	2/4 ug/L	X4275, 77, 78, 80-82, 91

Analyst: SW File: 3520-827.xls

Reviewed and Approved by: Date:

		X4544	X4460	X4385	X3118	X2965	X2964	X2922			
		X4283	X4284	X4285	X4286	X4287	X4288	X4290			
Compound	Spike	X4275	X4277	X4278	X4280	X4281	X4282	X4291	AVG	STD DEV	MDL
NITROBENZENE	2.00	1.48	1.48	1.50	1.58	1.23	1.30	1.50	1.44	0.12	0.39
PENTACHLOROPHENOL	4.00	1.69	1.74	1.79	1.55	1.24	1.58	1.58	1.60	0.18	0.57
PHENANTHRENE	2.00	1.61	1.63	1.62	1.68	1.41	1.58	1.58	1.59	0.09	0.27
PHENOL	4.00	11.89	10.41	10.03	7.63	8.69	20.63	7.41	10.96	4.55	14.31
PYRENE	2.00	1.53	1.58	1.41	1.52	1.42	1.40	1.35	1.46	0.08	0.27
PYRIDINE	2.00	1.08	0.63	0.30	0.76	0.54	0.73	0.49	0.65	0.25	0.77

METHOD DETECTION LIMIT STUDY

Method: SW846 Method 8081 Matix: Water
Prep. Method:Seperatory Funnel 3510 Sample Amount: 1 Liter
Instrument ID: GC08 Channel A Detector: ECD
Column ID: 198 Phase: Rtx-CLPest. Length: 30 Meters ID: 0.53 m Film Thickness: 0.50 um

Compound	SPIKE CONC. (ug/L)	#1 MDL 1 (ug/L)	#2 MDL 2 (ug/L)	#3 MDL 3 (ug/L)	#4 MDL 4 (ug/L)	#5 MDL 5 (ug/L)	#6 MDL 6 (ug/L)	#7 MDL 7 (ug/L)	#8 MDL 8 (ug/L)	Average Conc. (ug/L)	Standard Deviation	MDL (ug/L)	PQL (ug/L)
ALPHA-BHC	0.050	0.0455	0.0472	0.0425	0.0543	0.0500	0.0494	0.0477	0.0496	0.0455	0.0035	0.0104	0.050
BETA-BHC	0.050	0.0490	0.0478	0.0398	0.0558	0.0602	0.0537	0.0586	0.0541	0.0524	0.0066	0.0199	0.050
GAMMA-BHC(LINDANE)	0.050	0.0454	0.0467	0.0403	0.0518	0.0493	0.0498	0.0490	0.0490	0.0477	0.0035	0.0106	0.050
DELTA-BHC	0.050	0.0535	0.0527	0.0516	0.0576	0.0546	0.0568	0.0568	0.0550	0.0548	0.0021	0.0064	0.050
HEPTACHLOR	0.050	0.0379	0.0400	0.0322	0.0453	0.0411	0.0426	0.0416	0.0420	0.0403	0.0039	0.0117	0.050
ALDRIN	0.050	0.0429	0.0451	0.0384	0.0503	0.0467	0.0485	0.0470	0.0474	0.0458	0.0037	0.0111	0.050
HEPTACHLOR EPOXIDE	0.050	0.0467	0.0473	0.0432	0.0539	0.0506	0.0525	0.0511	0.0508	0.0495	0.0035	0.0105	0.050
GAMMA-CHLORDANE	0.050	0.0475	0.0473	0.0441	0.0539	0.0509	0.0531	0.0514	0.0513	0.0499	0.0033	0.0100	0.050
ENDOSULFAN I	0.050	0.0466	0.0471	0.0441	0.0535	0.0510	0.0520	0.0512	0.0511	0.0496	0.0032	0.0097	0.050
ALPHA-CHLORDANE	0.050	0.0469	0.0468	0.0439	0.0538	0.0509	0.0527	0.0512	0.0515	0.0497	0.0034	0.0103	0.050
DIELDRIN	0.050	0.0490	0.0494	0.0466	0.0553	0.0528	0.0531	0.0531	0.0531	0.0516	0.0029	0.0087	0.10
4,4'-DDE	0.050	0.0497	0.0495	0.0488	0.0550	0.0528	0.0538	0.0527	0.0528	0.0519	0.0023	0.0068	0.10
ENDRIN	0.050	0.0476	0.0474	0.0457	0.0530	0.0504	0.0514	0.0507	0.0478	0.0493	0.0025	0.0074	0.10
ENDOSULFAN II	0.050	0.0481	0.0484	0.0491	0.0555	0.0525	0.0539	0.0537	0.0534	0.0518	0.0029	0.0086	0.10
4,4'-DDD	0.050	0.0517	0.0518	0.0527	0.0578	0.0552	0.0574	0.0567	0.0562	0.0549	0.0025	0.0075	0.10
ENDRIN ALDEHYDE	0.050	0.0474	0.0481	0.0510	0.0567	0.0520	0.0555	0.0535	0.0521	0.0520	0.0033	0.0097	0.10
ENDOSULFAN SULFATE	0.050	0.0506	0.0520	0.0531	0.0578	0.0554	0.0561	0.0563	0.0536	0.0544	0.0024	0.0073	0.10
4,4'-DDT	0.050	0.0452	0.0451	0.0468	0.0509	0.0485	0.0502	0.0499	0.0471	0.0480	0.0023	0.0068	0.10
ENDRIN KETONE	0.050	0.0511	0.0512	0.0536	0.0587	0.0557	0.0574	0.0571	0.0564	0.0552	0.0029	0.0086	0.10
METHOXYCHLOR	0.050	0.0402	0.0402	0.0430	0.0474	0.0451	0.0464	0.0459	0.0419	0.0438	0.0028	0.0085	0.50
RESULT FILES		8QA1163.rst	8QA1164.rst	8QA1165.rst	8QA1166.rst	8QA1167.rst	8QA1168.rst	8QA1169.rst	8QA1170.rst				
Date Analyzed		1/19/00	1/19/00	1/19/00	1/19/00	1/19/00	1/19/00	1/19/00	1/19/00				
Analyst		DBG	DBG	DBG	DBG	DBG	DBG	DBG	DBG		t value =	2.9980	

METHOD DETECTION LIMIT STUDY

Method: SW846 Method 8081 Matix: Water
Prep. Method:Seperatory Funnel 3510 Sample Amount: 1 Liter
Instrument ID: GC08 Channel B Detector: ECD
Column ID: 199 Phase: Rtx-CLPest. I Length: 30 Meters ID: 0.53 m Film Thickness: 0.50 um

Compound	SPIKE CONC. (ug/L)	#1 MDL 1 (ug/L)	#2 MDL 2 (ug/L)	#3 MDL 3 (ug/L)	#4 MDL 4 (ug/L)	#5 MDL 5 (ug/L)	#6 MDL 6 (ug/L)	#7 MDL 7 (ug/L)	#8 MDL 8 (ug/L)	Average Conc. (ug/L)	Standard Deviation	MDL (ug/L)	PQL (ug/L)
ALPHA-BHC	0.050	0.0505	0.0523	0.0476	0.0582	0.0552	0.0549	0.0531	0.0546	0.053	0.0032	0.0097	0.050
GAMMA-BHC(LINDANE)	0.050	0.0510	0.0519	0.0456	0.0582	0.0550	0.0553	0.0542	0.0542	0.053	0.0038	0.0113	0.050
HEPTACHLOR	0.050	0.0396	0.0404	0.0320	0.0454	0.0413	0.0431	0.0401	0.0411	0.040	0.0039	0.0116	0.050
ALDRIN	0.050	0.0544	0.0538	0.0516	0.0622	0.0570	0.0662	0.0597	0.0558	0.058	0.0048	0.0145	0.050
BETA-BHC	0.050	0.0512	0.0506	0.0435	0.0579	0.0533	0.0565	0.0546	0.0544	0.053	0.0045	0.0134	0.050
DELTA-BHC	0.050	0.0583	0.0579	0.0550	0.0628	0.0598	0.0616	0.0608	0.0594	0.059	0.0024	0.0073	0.050
HEPTACHLOR EPOXIDE	0.050	0.0494	0.0497	0.0456	0.0560	0.0529	0.0548	0.0537	0.0531	0.052	0.0034	0.0102	0.050
ENDOSULFAN I	0.050	0.0496	0.0497	0.0467	0.0556	0.0531	0.0545	0.0537	0.0532	0.052	0.0030	0.0091	0.050
GAMMA-CHLORDANE	0.050	0.0487	0.0486	0.0454	0.0547	0.0522	0.0539	0.0526	0.0522	0.051	0.0032	0.0095	0.050
ALPHA-CHLORDANE	0.050	0.0491	0.0489	0.0465	0.0553	0.0525	0.0545	0.0529	0.0523	0.052	0.0030	0.0091	0.050
4,4'-DDE	0.050	0.0512	0.0510	0.0496	0.0563	0.0543	0.0558	0.0548	0.0544	0.053	0.0025	0.0074	0.10
DIELDRIN	0.050	0.0530	0.0531	0.0519	0.0589	0.0562	0.0579	0.0573	0.0568	0.056	0.0026	0.0078	0.10
ENDRIN	0.050	0.0474	0.0469	0.0456	0.0525	0.0499	0.0506	0.0500	0.0467	0.049	0.0024	0.0071	0.10
ENDOSULFAN II	0.050	0.0492	0.0493	0.0506	0.0563	0.0531	0.0543	0.0539	0.0537	0.053	0.0026	0.0077	0.10
4,4'-DDD	0.050	0.0529	0.0529	0.0537	0.0588	0.0561	0.0585	0.0576	0.0569	0.056	0.0024	0.0073	0.10
4,4'-DDT	0.050	0.0470	0.0467	0.0482	0.0522	0.0504	0.0511	0.0511	0.0486	0.049	0.0021	0.0062	0.10
ENDRIN ALDEHYDE	0.050	0.0487	0.0501	0.0523	0.0582	0.0549	0.0570	0.0550	0.0536	0.054	0.0033	0.0098	0.10
ENDOSULFAN SULFATE	0.050	0.0542	0.0549	0.0564	0.0607	0.0586	0.0584	0.0591	0.0566	0.057	0.0022	0.0066	0.10
METHOXYCHLOR	0.050	0.0421	0.0419	0.0441	0.0481	0.0457	0.0463	0.0465	0.0428	0.045	0.0023	0.0069	0.10
ENDRINE KETONE	0.050	0.0555	0.0557	0.0569	0.0623	0.0590	0.0603	0.0602	0.0597	0.059	0.0024	0.0073	0.50
RESULT FILES		8QA2163.rst	8QA2164.rst	8QA2165.rst	8QA2166.rst	8QA2167.rst	8QA2168.rst	8QA2169.rst	8QA2170.rst				
Date Analyzed		1/19/00	1/19/00	1/19/00	1/19/00	1/19/00	1/19/00	1/19/00	1/19/00				
Analyst		DBG	DBG	DBG	DBG	DBG	DBG	DBG	DBG		t value =	2.9980	

Katahdin Analytical Services, Inc.
Method Detection Limit Study

Instrument Name:	TJA Trace 61
Instrument ID:	A
Matrix:	Aqueous
Prep Method:	EPA 3010A
Analysis Method:	EPA 6010B

Element	Run ID	Spike (ug/L)	Rep.1 (ug/L)	Rep.2 (ug/L)	Rep.3 (ug/L)	Rep.4 (ug/L)	Rep.5 (ug/L)	Rep.6 (ug/L)	Rep.7 (ug/L)	Rep.8 (ug/L)	Rep.9 (ug/L)	Rep.10 (ug/L)	AVG (ug/L)	Rcvy (%)	Std.Dev. (ug/L)	MDL (ug/L)
Aluminum	AQC07A	40.00	42.57	48.86	51.68	48.60	52.27	50.65	54.17	54.56	59.07	61.46	52.39	131.0	5.391	15.208
Antimony	AQC07A	6.00	6.95	7.20	7.63	6.86	8.29	6.37	6.77	6.00	5.75	6.46	6.83	113.8	0.755	2.130
Arsenic	AQC07A	6.00	4.37	4.05	3.76	5.32	4.32	4.76	3.64	5.30	4.14	4.87	4.45	74.2	0.593	1.672
Barium	AQC07A	0.40	O0.78	0.56	0.62	0.62	0.58	0.61	0.59	0.56	0.58	0.61	0.59	148.1	0.024	0.069
Beryllium	AQC07A	0.40	0.46	0.44	0.42	0.41	0.43	0.44	0.39	0.43	0.43	0.42	0.43	106.8	0.019	0.053
Boron	AQC07A	4.00	4.68	4.49	4.00	4.59	3.92	4.90	4.23	3.87	4.69	3.88	4.33	108.1	0.390	1.101
Cadmium	AQC07A	0.60	0.85	0.83	0.81	0.84	0.73	0.69	0.78	0.72	0.74	0.83	0.78	130.3	0.058	0.163
Calcium	AQC07A	20.00	O22.41	16.07	15.34	15.25	14.63	14.40	11.95	11.62	13.38	10.84	13.72	68.6	1.862	5.392
Chromium	AQC07A	2.00	2.44	2.62	2.45	2.59	2.42	2.93	2.62	2.72	2.38	2.85	2.60	130.1	0.187	0.528
Cobalt	AQC07A	2.00	2.79	2.47	3.03	2.31	2.57	2.65	2.54	2.53	2.35	2.85	2.61	130.5	0.226	0.636
Copper	AQC07A	2.00	2.64	2.24	2.46	2.20	2.02	2.37	2.08	2.54	1.98	2.28	2.28	114.1	0.222	0.626
Iron	AQC13A	30.00	41.72	44.03	38.56	29.91	51.38	38.19	32.58	40.11	56.69	34.02	40.72	135.7	8.300	23.416
Lead	AQC07A	4.00	5.96	5.65	4.20	4.97	6.09	5.79	5.20	5.01	5.58	5.84	5.43	135.7	0.581	1.639
Magnesium	AQC07A	20.00	24.32	22.39	22.41	24.23	22.96	25.67	23.66	21.75	22.84	22.58	23.28	116.4	1.179	3.327
Manganese	AQC07A	0.40	0.64	0.62	0.76	0.63	0.67	0.60	0.68	0.72	0.75	0.73	0.68	170.0	0.057	0.162
Molybdenum	AQC07A	3.00	4.06	3.98	4.11	3.60	2.87	3.66	4.23	3.23	3.32	3.38	3.64	121.5	0.446	1.259
Nickel	AQC07A	2.00	2.35	2.23	3.13	3.16	2.42	2.53	2.38	2.49	2.47	2.78	2.59	129.7	0.323	0.912
Selenium	AQC07A	8.00	5.93	5.66	7.77	6.34	7.19	7.40	o3.91	7.64	6.54	6.11	6.73	84.1	0.785	2.273
Silver	AQC07A	3.00	4.40	3.78	3.55	3.74	3.07	3.91	3.37	3.26	3.42	3.71	3.62	120.7	0.377	1.064
Strontium	AQC13A	0.10	o0.00	0.07	0.07	0.09	0.07	0.05	0.07	0.09	0.07	0.06	0.07	71.1	0.013	0.037
Thallium	AQC07A	10.00	11.55	10.39	10.46	11.64	12.04	10.56	12.53	10.53	10.44	11.70	11.18	111.8	0.794	2.241
Tin	AQC07A	6.00	7.02	6.54	5.08	5.47	7.01	6.92	5.69	5.83	5.89	7.63	6.31	105.1	0.828	2.336
Titanium	AQC07A	1.00	0.68	0.75	0.96	1.11	1.06	0.93	0.75	0.84	0.67	0.82	0.86	85.7	0.153	0.433
Vanadium	AQC07A	2.00	2.19	2.30	2.05	2.50	2.19	2.20	2.71	2.48	2.23	2.27	2.31	115.6	0.195	0.550
Zinc	AQC07A	1.00	1.63	1.45	1.69	1.39	1.49	1.65	1.63	1.52	1.74	1.84	1.60	160.3	0.139	0.393

Notes: "O" denotes a high statistical outlier, as determined by the Q-test
"o" denotes a high statistical outlier, as determined by the Q-test
Outliers have not been used in calculation of MDLs.

Katahdin Analytical Services, Inc.
Method Detection Limit Study

Instrument Name:	TJA ICAP 61
Instrument ID:	B
Matrix:	Aqueous
Prep Method:	EPA 3010A
Analysis Method:	EPA 6010B

Element	Run ID	Spike (ug/L)	Rep.1 (ug/L)	Rep.2 (ug/L)	Rep.3 (ug/L)	Rep.4 (ug/L)	Rep.5 (ug/L)	Rep.6 (ug/L)	Rep.7 (ug/L)	Rep.8 (ug/L)	Rep.9 (ug/L)	Rep.10 (ug/L)	AVG (ug/L)	Rcvy (%)	Std.Dev. (ug/L)	MDL (ug/L)
Aluminum	BQC03A	50.00	45.58	52.44	46.11	50.73	49.73	45.76	52.26	51.19	49.15	47.83	49.08	98.2	2.639	7.443
Antimony	BQC03A	20.00	7.54	5.89	14.68	5.83	20.20	8.82	8.74	26.48	15.21	17.45	13.08	65.4	6.899	19.462
Barium	BQC03A	1.50	1.22	1.55	1.20	1.19	1.19	1.20	1.36	1.75	1.27	1.03	1.30	86.4	0.209	0.589
Beryllium	BQC03A	1.00	1.06	0.77	1.05	0.78	o0.51	0.78	0.79	1.05	1.03	0.77	0.90	89.8	0.142	0.412
Boron	BQC03A	20.00	16.51	O22.21	16.34	16.07	16.17	17.44	17.24	15.49	18.35	18.71	16.92	84.6	1.087	3.149
Cadmium	BQC03A	5.00	3.36	7.23	5.40	5.87	5.41	4.50	4.92	5.54	4.77	4.61	5.16	103.2	1.013	2.859
Calcium	BQC03A	50.00	28.51	32.21	38.17	37.33	39.37	45.75	45.29	46.04	40.76	43.28	39.67	79.3	5.882	16.593
Chromium	BQC03A	10.00	6.06	6.02	9.01	11.84	2.95	2.98	5.92	9.22	3.21	9.03	6.62	66.2	3.074	8.671
Cobalt	BQC03A	10.00	12.59	11.72	12.09	11.93	10.05	11.66	12.73	12.30	9.37	10.16	11.46	114.6	1.172	3.307
Copper	BQC03A	5.00	4.94	3.91	2.91	2.82	2.86	2.89	2.83	5.99	3.20	3.89	3.62	72.5	1.084	3.057
Iron	BQC03A	15.00	18.06	14.29	15.45	17.20	13.69	18.18	15.19	14.59	18.82	21.93	16.74	111.6	2.567	7.240
Magnesium	BQC03A	50.00	55.83	61.05	51.23	53.40	59.16	53.90	53.44	67.49	48.72	54.16	55.84	111.7	5.417	15.283
Manganese	BQC03A	2.00	2.60	2.59	2.58	O8.95	2.56	2.58	2.55	2.62	O2.68	2.59	2.58	129.2	0.022	0.066
Nickel	BQC03A	20.00	25.21	14.84	29.67	16.56	23.25	22.58	18.93	15.06	18.64	17.94	20.27	101.3	4.799	13.537
Potassium	BQC03A	1000.00	1175.97	983.53	722.52	883.37	1017.34	691.45	886.00	951.63	968.00	1002.18	928.20	92.8	142.263	401.324
Selenium	BQC03A	50.00	50.27	59.29	35.11	36.57	47.77	55.37	53.04	63.79	49.74	50.08	50.10	100.2	8.954	25.260
Silicon	BQC03A	50.00	43.26	35.85	29.84	27.23	19.53	11.37	22.08	18.07	20.33	17.48	24.50	49.0	9.590	27.053
Silver	BQC03A	9.00	10.70	10.67	10.67	10.62	10.62	10.64	O11.41	10.73	9.97	9.86	10.50	116.6	0.333	0.966
Sodium	BQC03A	50.00	69.84	67.14	61.61	65.22	59.81	67.91	64.67	66.94	66.44	72.80	66.24	132.5	3.748	10.572
Vanadium	BQC03A	10.00	9.59	11.43	11.41	11.29	9.42	9.47	9.41	9.66	11.80	11.46	10.49	104.9	1.048	2.955
Zinc	BQC03A	3.00	6.24	4.24	4.19	3.90	3.65	5.17	3.39	5.08	3.96	3.99	4.38	146.0	0.863	2.434

Notes: "O" denotes a high statistical outlier, as determined by the Q-test
"o" denotes a high statistical outlier, as determined by the Q-test
Outliers have not been included in calculation of MDLs.

Katahdin Analytical Services, Inc.
Method Detection Limit Study

Instrument Name:	Leeman PS200
Instrument ID:	D
Matrix:	Aqueous
Prep Method:	EPA 7470A
Analysis Method:	EPA 7470A

Element	Run ID	Spike (ug/L)	Rep.1 (ug/L)	Rep.2 (ug/L)	Rep.3 (ug/L)	Rep.4 (ug/L)	Rep.5 (ug/L)	Rep.6 (ug/L)	Rep.7 (ug/L)	Rep.8 (ug/L)	Rep.9 (ug/L)	Rep.10 (ug/L)	AVG (ug/L)	Rcvy (%)	Std.Dev. (ug/L)	MDL (ug/L)
Mercury	DQB17B	0.10	0.08	0.10	0.10	0.11	0.11	0.13	0.06	0.08	0.10		0.10	95.6	0.020	0.057

Notes: "O" denotes a high statistical outlier, as determined by the Q-test
"o" denotes a high statistical outlier, as determined by the Q-test
Outliers have not been included in calculation of MDLs.

Katahdin Analytical Services, Inc.
Method Detection Limit Study

Instrument Name:	TJA Trace ICP
Instrument ID:	A
Matrix:	Soil
Prep Method:	EPA 3050B
Analysis Method:	EPA 6010B

Element	Run ID	Spike (ug/L)	Rep.1 (ug/L)	Rep.2 (ug/L)	Rep.3 (ug/L)	Rep.4 (ug/L)	Rep.5 (ug/L)	Rep.6 (ug/L)	Rep.7 (ug/L)	Rep.8 (ug/L)	Rep.9 (ug/L)	Rep.10 (ug/L)	AVG (ug/L)	Rcvy (%)	Std.Dev. (ug/L)	MDL (ug/L)	MDL (mg/kg)
Aluminum	AQC07A	40.00	63.52	69.41	63.21	64.66	62.05	64.46	79.64	73.07	89.28	O121.36	69.92	174.8	9.253	26.795	2.680
Antimony	AQC07A	6.00	6.75	5.53	6.17	7.64	6.00	6.58	5.64	5.58	5.75	5.14	6.08	101.3	0.737	2.078	0.208
Arsenic	AQC07A	6.00	4.61	4.75	3.38	4.50	4.21	3.76	3.38	3.96	4.25	3.48	4.03	67.1	0.514	1.451	0.145
Barium	AQC07A	0.40	1.20	2.64	1.00	2.75	1.69	5.33	1.99	1.69	1.02	3.63	2.29	573.5	1.360	3.837	0.384
Beryllium	AQC07A	0.40	0.45	0.46	0.45	oO.41	0.48	0.49	0.50	0.49	0.47	0.46	0.47	118.1	0.019	0.054	0.005
Boron	AQC07A	4.00	7.93	9.04	5.75	7.82	11.79	13.00	10.38	16.90	9.52	17.39	10.95	273.8	3.855	10.875	1.088
Cadmium	AQC07A	0.60	0.83	0.75	0.78	0.75	0.71	0.79	0.80	0.86	0.93	0.84	0.80	134.0	0.064	0.180	0.018
Calcium	AQC07A	20.00	14.84	15.05	14.20	13.29	13.14	15.54	13.81	O30.82	O55.14	O117.35	14.27	71.3	0.913	2.869	0.287
Chromium	AQC07A	2.00	2.95	3.29	2.79	3.46	2.91	2.75	3.03	3.10	2.85	2.66	2.98	149.0	0.249	0.702	0.070
Cobalt	AQC07A	2.00	2.69	2.80	2.50	2.63	2.43	2.23	2.24	2.32	2.29	2.11	2.42	121.2	0.226	0.637	0.064
Copper	AQC07A	2.00	2.13	O2.79	2.17	2.26	2.35	1.83	2.28	2.03	1.99	2.01	2.12	105.8	0.167	0.482	0.048
Iron	AQC07A	30.00	30.41	32.25	40.03	39.45	34.81	41.82	55.21	34.29	49.30	37.75	39.53	131.8	7.716	21.768	2.177
Lead	AQC07A	4.00	5.01	5.25	6.08	5.00	5.16	4.98	5.45	5.76	5.20	5.14	5.30	132.6	0.362	1.020	0.102
Magnesium	AQC07A	20.00	22.00	25.89	22.17	23.93	22.16	20.30	23.02	25.36	26.23	O33.14	23.45	117.3	2.033	5.888	0.589
Manganese	AQC07A	0.40	0.75	0.63	0.62	0.80	0.62	0.55	0.63	0.61	0.62	0.75	0.66	164.5	0.080	0.224	0.022
Molybdenum	AQC07A	3.00	4.67	4.08	3.54	4.25	3.00	3.20	2.86	3.88	3.89	3.66	3.70	123.4	0.570	1.609	0.161
Nickel	AQC07A	2.00	3.08	2.89	2.88	2.50	2.50	2.79	2.49	3.06	2.49	2.54	2.72	136.1	0.245	0.691	0.069
Selenium	AQC07A	8.00	7.07	7.47	6.01	6.94	7.50	5.47	6.51	7.99	7.09	6.48	6.85	85.7	0.752	2.120	0.212
Silver	AQC07A	3.00	3.65	4.28	3.53	4.46	3.70	3.33	3.23	3.67	3.48	3.57	3.69	123.0	0.390	1.100	0.110
Strontium	AQC13A	0.10	0.11	0.14	0.09	0.13	0.11	0.15	0.13	0.11	0.22	0.27	0.15	146.0	0.056	0.159	0.016
Thallium	AQC07A	10.00	8.15	8.61	8.81	12.15	7.91	9.69	10.64	9.52	8.95	9.01	9.34	93.4	1.259	3.553	0.355
Tin	AQC07A	6.00	40.92	41.31	43.17	41.09	40.30	39.66	39.79	39.80	38.59	37.24	40.19	669.8	1.611	4.543	0.454
Titanium	AQC07A	1.00	1.48	1.56	1.35	1.38	0.84	1.27	1.39	1.86	2.25	1.95	1.53	153.3	0.398	1.123	0.112
Vanadium	AQC07A	2.00	2.28	2.68	2.53	2.21	2.16	2.34	2.31	2.77	1.99	2.58	2.39	119.3	0.247	0.698	0.070
Zinc	AQC07A	1.00	1.45	2.04	1.83	1.22	1.30	1.55	2.34	1.48	1.21	2.35	1.68	167.7	0.438	1.234	0.123

Notes: "O" denotes a high statistical outlier, as determined by the Q-test
"o" denotes a high statistical outlier, as determined by the Q-test
Outliers have not been included in calculation of MDLs.

Katahdin Analytical Services, Inc.
Method Detection Limit Study

Instrument Name:	TJA ICAP 61
Instrument ID:	B
Matrix:	Soil
Prep Method:	EPA 3050B
Analysis Method:	EPA 6010B

Element	Run ID	Spike (ug/L)	Rep.1 (ug/L)	Rep.2 (ug/L)	Rep.3 (ug/L)	Rep.4 (ug/L)	Rep.5 (ug/L)	Rep.6 (ug/L)	Rep.7 (ug/L)	Rep.8 (ug/L)	Rep.9 (ug/L)	Rep.10 (ug/L)	AVG (ug/L)	Rcvy (%)	Std.Dev. (ug/L)	MDL (ug/L)	MDL (mg/kg)
Aluminum	BQC03A	50.00	66.19	59.21	58.52	61.83	60.51	58.23	58.13	66.64	57.88	o46.12	60.79	121.6	3.433	9.942	0.994
Antimony	BQC03A	20.00	23.11	-1.23	20.59	16.94	17.20	21.51	12.39	21.38	7.90	9.26	14.91	74.5	7.762	21.896	2.190
Barium	BQC03A	1.50	2.38	1.47	1.40	O7.79	2.03	1.84	2.75	2.54	1.99	1.44	1.98	132.1	0.497	1.440	0.144
Beryllium	BQC03A	1.00	1.60	1.60	1.34	1.62	1.30	1.32	1.31	1.32	1.32	1.32	1.41	140.5	0.140	0.394	0.039
Boron	BQC03A	20.00	20.05	19.93	21.19	21.05	22.65	24.96	26.20	29.58	23.34	19.58	22.85	114.3	3.237	9.132	0.913
Cadmium	BQC03A	5.00	6.68	6.77	3.56	3.92	4.85	6.23	6.23	6.69	3.89	6.18	5.50	110.0	1.301	3.669	0.367
Calcium	BQC03A	50.00	50.71	39.42	51.26	42.85	45.94	39.23	43.78	39.85	52.55	38.06	44.37	88.7	5.486	15.476	1.548
Chromium	BQC03A	10.00	9.64	O12.79	9.15	6.42	9.75	9.69	6.48	9.58	9.52	9.47	8.86	88.6	1.375	3.981	0.398
Cobalt	BQC03A	10.00	12.82	12.36	8.29	9.03	10.00	14.50	11.61	12.30	10.21	10.97	11.21	112.1	1.882	5.310	0.531
Copper	BQC03A	5.00	5.40	4.34	3.01	3.28	3.39	2.33	4.39	4.31	3.25	4.21	3.79	75.8	0.892	2.515	0.251
Iron	BQC03A	15.00	18.86	26.82	12.09	27.11	16.90	21.03	13.82	16.57	13.95	10.12	17.73	118.2	5.813	16.398	1.640
Magnesium	BQC03A	50.00	59.77	55.16	58.81	44.85	57.15	70.11	62.72	56.47	57.61	60.24	58.29	116.6	6.334	17.869	1.787
Manganese	BQC03A	2.00	2.04	2.72	1.94	2.71	2.74	2.73	2.73	2.71	3.37	1.34	2.50	125.2	0.570	1.609	0.161
Nickel	BQC03A	20.00	18.62	13.59	19.86	24.59	24.08	10.66	6.26	20.07	26.48	19.47	18.37	91.8	6.432	18.146	1.815
Potassium	BQC03A	1000.00	1096.94	1061.07	1008.53	849.58	1208.46	1424.61	1171.93	1061.26	1243.58	1136.56	1126.25	112.6	153.287	432.422	43.242
Selenium	BQC03A	50.00	46.63	52.38	65.29	56.00	66.56	38.76	56.49	52.19	65.40	49.79	54.95	109.9	8.985	25.347	2.535
Silicon	BQC03A	50.00	81.02	76.16	91.33	104.98	93.44	97.63	125.78	O192.14	127.44	91.31	98.79	197.6	17.878	51.775	5.178
Silver	BQC03A	9.00	10.09	9.22	9.07	9.18	8.38	9.21	9.24	10.05	9.18	8.31	9.19	102.1	0.577	1.628	0.163
Sodium	BQC03A	50.00	75.80	78.97	63.60	O127.81	75.54	79.58	95.87	92.62	77.01	67.02	78.45	156.9	10.455	30.279	3.028
Vanadium	BQC03A	10.00	14.04	14.01	11.55	9.95	14.13	10.03	12.04	11.95	11.89	11.84	12.14	121.4	1.522	4.295	0.429
Zinc	BQC03A	3.00	5.15	3.32	4.07	5.05	3.61	4.64	4.40	4.30	4.24	3.72	4.25	141.7	0.598	1.686	0.169

Notes: "O" denotes a high statistical outlier, as determined by the Q-test
"o" denotes a high statistical outlier, as determined by the Q-test
Outliers have not been included in calculation of MDLs.

Katahdin Analytical Services, Inc.
Method Detection Limit Study

Instrument Name:	Leeman PS200
Instrument ID:	D
Matrix:	Soil
Prep Method:	EPA 7471A
Analysis Method:	EPA 7471A

Element	Run ID	Spike (ug/L)	Rep.1 (ug/L)	Rep.2 (ug/L)	Rep.3 (ug/L)	Rep.4 (ug/L)	Rep.5 (ug/L)	Rep.6 (ug/L)	Rep.7 (ug/L)	Rep.8 (ug/L)	Rep.9 (ug/L)	Rep.10 (ug/L)	AVG (ug/L)	Rcvy (%)	Std.Dev. (ug/L)	MDL (ug/L)	MDL (mg/kg)
Mercury	DQB01A	0.10	o0.08	0.13	0.14	0.16	0.13	0.14	0.16	0.14	0.16		0.14	144.0	0.013	0.038	0.0038

Notes: "O" denotes a high statistical outlier, as determined by the Q-test
"o" denotes a high statistical outlier, as determined by the Q-test
Outliers have not been included in calculation of MDLs.

Appendix D

Analytical Report Data Tables

D.1 Ground-Water Samples Site 9
D.2 Surface Water Samples Site 9
D.3 Sediment Samples Site 9
D.4 Leachate Station Seep Sample

Appendix D.1

Ground-Water Samples
Site 9

APPENDIX D.1

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

Sample Designation	Sample Station
Monitoring Wells	
BN-16-S9-MW069	MW-NASB-069
BN-16-S9-MWXD1	MW-NASB-069 - Duplicate
BN-16-S9-MW070	MW-NASB-070
BN-16-S9-MW071	MW-NASB-071
BN-16-S9-MW072	MW-NASB-072
BN-16-S9-MW74	MW-NASB-074
BN-16-S9-MW075	MW-NASB-075
BN-16-S9-MW076	MW-NASB-076
BN-16-S9-MW077	MW-NASB-077
BN-16-S9-MWXD2	MW-NASB-077 – Duplicate
BN-16-S9-MW079	MW-NASB-079
BN-16-S9-MW080	MW-NASB-080
BN-16-S9-MW022	MW-NASB-022
BN-16-S9-MW227	MW-NASB-227

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: Sue Chase | Phone #: (207) 798-5977 | Fax #: (207) 798-4636

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

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

Bill (if different than above) | Address

Sampler (Print / Sign): Suzanne Chase | Copies To:

LAB USE ONLY | WORK ORDER #: WQ0963

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 (Filt. ☐Y☒N)	SVOC (Filt. ☐Y☒N)	TAL Elements (Filt. ☐Y☒N)	VOC - Sim For vinylchloride (Filt. ☐Y☒N)	(Filt. ☐Y☐N)	(Filt. ☐Y☐N)	(Filt. ☐Y☐N)	(Filt. ☐Y☐N)	(Filt. ☐Y☐N)	(Filt. ☐Y☐N)
	BN-16-59-MW-069	4/11/09 1411	W	6	Y	X	X							
	BN-16-59-MW-070	4/11/09 1510	W	3		X	X							
	BN-16-59-MW071	4/12/09 1035	W	9	X				MS / MSD					
	BN-16-59-MW072	4/11/09 1045	W	3	X									
	BN-16-59-MW074	4/11/09 1003	W	3	X									
	BN-16-59-MW075	4/11/09 950	W	3	X									
	BN-16-59-MW076	4/11/09 1045	W	3	X									
	BN-16-59-MW077	4/12/09 1140	W	6	X			X						
	BN-16-59-MW078	4/11/09 1408	W	3		X	X							
	BN-16-59-MW-080	4/11/09 1310	W	3	X									
	BN-16-59-MW-022	4/11/09 1615	W	3	X									
	BN-16-59-MW227	4/11/09 1150	W	3	X									
	BN-16-59-MW XD1	4/11/09 —	W	6	X	X	X							
	BN-16-59-MW XD2	4/12/09 —	W	6	X									
		/	W											
		/												

COMMENTS

Please send a copy of COC and Form I's to Sue Chase at Brunswick

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
[illegible]	4/12/09 [illegible]	[illegible]		4/12/09 1640	[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: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WQ0963-1
SDG: BN16S9MW069
Report Date: 4/18/00
PO No. : 29600.47
Project: LTMP SAMPLING EVENT
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/13/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-16-S9-MW069	AQ	4/11/00	4/12/00	4/13/00	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	55	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	49	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: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WQ0963-1
SDG: BN16S9MW069
Report Date: 4/18/00
PO No. : 29600.47
Project: LTMP SAMPLING EVENT
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/13/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-16-S9-MW069	AQ	4/11/00	4/12/00	4/13/00	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	118	%	1.0		
TOLUENE-D8	115	%	1.0		
P-BROMOFLUOROBENZENE	118	%	1.0		
1,2-DICHLOROETHANE-D4	132	%	1.0		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WQ0963-1
SDG: BN16S9MW069
Report Date: 4/28/00
PO No. : 29600.47
Project: LTMP SAMPLING EVENT
% Solids: N/A
Method: EPA 8270B
Date Analyzed: 4/25/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-16-S9-MW069	AQ	4/11/00	4/12/00	4/18/2000	DAS	EPA 3520	JG

Compound	Result	Units	DF	Sample PQL	Method PQL
PHENOL	<11	ug/L	1.1	11	10
BIS(2-CHLOROETHYL)ETHER	<11	ug/L	1.1	11	10
2-CHLOROPHENOL	<11	ug/L	1.1	11	10
1,3-DICHLOROBENZENE	<11	ug/L	1.1	11	10
1,4-DICHLOROBENZENE	<11	ug/L	1.1	11	10
1,2-DICHLOROBENZENE	<11	ug/L	1.1	11	10
2-METHYLPHENOL	<11	ug/L	1.1	11	10
2,2'-OXYBIS(1-CHLOROPROPANE)	<11	ug/L	1.1	11	10
4-METHYLPHENOL	<11	ug/L	1.1	11	10
N-NITROSODI-N-PROPYLAMINE	<11	ug/L	1.1	11	10
HEXACHLOROETHANE	<11	ug/L	1.1	11	10
NITROBENZENE	<11	ug/L	1.1	11	10
ISOPHORONE	<11	ug/L	1.1	11	10
2-NITROPHENOL	<11	ug/L	1.1	11	10
2,4-DIMETHYLPHENOL	<11	ug/L	1.1	11	10
BIS(2-CHLOROETHOXY)METHANE	<11	ug/L	1.1	11	10
2,4-DICHLOROPHENOL	<11	ug/L	1.1	11	10
1,2,4-TRICHLOROBENZENE	<11	ug/L	1.1	11	10
NAPHTHALENE	<11	ug/L	1.1	11	10
4-CHLOROANILINE	<11	ug/L	1.1	11	10
HEXACHLOROBUTADIENE	<11	ug/L	1.1	11	10
4-CHLORO-3-METHYLPHENOL	<11	ug/L	1.1	11	10
2-METHYLNAPHTHALENE	<11	ug/L	1.1	11	10
HEXACHLOROCYCLOPENTADIEN	<11	ug/L	1.1	11	10
2,4,6-TRICHLOROPHENOL	<11	ug/L	1.1	11	10
2,4,5-TRICHLOROPHENOL	<28	ug/L	1.1	28	25
2-CHLORONAPHTHALENE	<11	ug/L	1.1	11	10
2-NITROANILINE	<28	ug/L	1.1	28	25
DIMETHYL PHTHALATE	<11	ug/L	1.1	11	10
ACENAPHTHYLENE	<11	ug/L	1.1	11	10
2,6-DINITROTOLUENE	<11	ug/L	1.1	11	10
3-NITROANILINE	<28	ug/L	1.1	28	25
ACENAPHTHENE	<11	ug/L	1.1	11	10

Report Notes: A-1

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WQ0963-1
SDG: BN16S9MW069
Report Date: 4/28/00
PO No. : 29600.47
Project: LTMP SAMPLING EVENT
% Solids: N/A
Method: EPA 8270B
Date Analyzed: 4/25/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-16-S9-MW069	AQ	4/11/00	4/12/00	4/18/2000	DAS	EPA 3520	JG

Compound	Result	Units	DF	Sample PQL	Method PQL
2,4-DINITROPHENOL	<28	ug/L	1.1	28	25
4-NITROPHENOL	<28	ug/L	1.1	28	25
DIBENZOFURAN	<11	ug/L	1.1	11	10
2,4-DINITROTOLUENE	<11	ug/L	1.1	11	10
DIETHYLPHTHALATE	<11	ug/L	1.1	11	10
4-CHLOROPHENYL-PHENYLETHE	<11	ug/L	1.1	11	10
FLUORENE	<11	ug/L	1.1	11	10
4-NITROANILINE	<28	ug/L	1.1	28	25
4,6-DINITRO-2-METHYLPHENOL	<28	ug/L	1.1	28	25
N-NITROSODIPHENYLAMINE	<11	ug/L	1.1	11	10
4-BROMOPHENYL-PHENYLETHER	<11	ug/L	1.1	11	10
HEXACHLOROBENZENE	<11	ug/L	1.1	11	10
PENTACHLOROPHENOL	<28	ug/L	1.1	28	25
PHENANTHRENE	<11	ug/L	1.1	11	10
ANTHRACENE	<11	ug/L	1.1	11	10
CARBAZOLE	<11	ug/L	1.1	11	10
DI-N-BUTYLPHTHALATE	<11	ug/L	1.1	11	10
FLUORANTHENE	<11	ug/L	1.1	11	10
PYRENE	<11	ug/L	1.1	11	10
BUTYLBENZYLPHTHALATE	<11	ug/L	1.1	11	10
3,3'-DICHLOROBENZIDINE	<11	ug/L	1.1	11	10
BENZO[A]ANTHRACENE	<11	ug/L	1.1	11	10
CHRYSENE	<11	ug/L	1.1	11	10
BIS(2-ETHYLHEXYL)PHTHALATE	<11	ug/L	1.1	11	10
DI-N-OCTYLPHTHALATE	<11	ug/L	1.1	11	10
BENZO[B]FLUORANTHENE	<11	ug/L	1.1	11	10
BENZO[K]FLUORANTHENE	<11	ug/L	1.1	11	10
BENZO[A]PYRENE	<11	ug/L	1.1	11	10
INDENO[1,2,3-CD]PYRENE	<11	ug/L	1.1	11	10
DIBENZ[A,H]ANTHRACENE	<11	ug/L	1.1	11	10
BENZO[G,H,I]PERYLENE	<11	ug/L	1.1	11	10
2-FLUOROPHENOL	73	%	1.1		
PHENOL-D6	76	%	1.1		

Report Notes: A-1

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WQ0963-1
SDG: BN16S9MW069
Report Date: 4/28/00
PO No. : 29600.47
Project: LTMP SAMPLING EVENT
% Solids: N/A
Method: EPA 8270B
Date Analyzed: 4/25/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-16-S9-MW069	AQ	4/11/00	4/12/00	4/18/2000	DAS	EPA 3520	JG

Compound	Result	Units	DF	Sample PQL	Method PQL
NITROBENZENE-D5	77	%	1.1		
2-FLUOROBIPHENYL	79	%	1.1		
2,4,6-TRIBROMOPHENOL	79	%	1.1		
TERPHENYL-D14	89	%	1.1		

Report Notes: A-1

I

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services
Matrix: WATER
Percent Solids: 0.00

Client Field ID: BN-16-S9-MW069
SDG Name: BN16S9MW069
Lab Sample ID: WQ0963-001

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

CAS No.	Analyte	Concentration	C	Q	M	DF
7429-90-5	ALUMINUM	51.4	B		P	1
7440-36-0	ANTIMONY	2.32	U		P	1
7440-38-2	ARSENIC	1.98	U		P	1
7440-39-3	BARIUM	9.6			P	1
7440-41-7	BERYLLIUM	0.82	B		P	1
7440-43-9	CADMIUM	2.6	B		P	1
7440-70-2	CALCIUM	8110			P	1
7440-47-3	CHROMIUM	9.9	B		P	1
7440-48-4	COBALT	2.98	U		P	1
7440-50-8	COPPER	1.93	U		P	1
7439-89-6	IRON	161			P	1
7439-92-1	LEAD	1.48	U		P	1
7439-95-4	MAGNESIUM	3110			P	1
7439-96-5	MANGANESE	703			P	1
7439-97-6	MERCURY	0.02	U		CV	1
7440-02-0	NICKEL	11.90	U		P	1
7440-09-7	POTASSIUM	2240			P	1
7782-49-2	SELENIUM	2.98	U		P	1
7440-22-4	SILVER	2.74	U		P	1
7440-23-5	SODIUM	71200			P	1
7440-28-0	THALLIUM	4.6	B		P	1
7440-62-2	VANADIUM	4.01	U		P	1
7440-66-6	ZINC	11.0	B		P	1

Color Before: COLORLESS
Clarity Before: CLEAR
Color After: COLORLESS
Clarity After: CLEAR
Comments:

FORM I - IN

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WQ0963-2
SDG: BN16S9MW069
Report Date: 4/18/00
PO No. : 29600.47
Project: LTMP SAMPLING EVENT
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/13/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-16-S9-MWXD1	AQ	4/11/00	4/12/00	4/13/00	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	53	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	51	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: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WQ0963-2
SDG: BN16S9MW069
Report Date: 4/18/00
PO No. : 29600.47
Project: LTMP SAMPLING EVENT
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/13/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-16-S9-MWXD1	AQ	4/11/00	4/12/00	4/13/00	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	121	%	1.0		
TOLUENE-D8	117	%	1.0		
P-BROMOFLUOROBENZENE	115	%	1.0		
1,2-DICHLOROETHANE-D4	128	%	1.0		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WQ0963-2
SDG: BN16S9MW069
Report Date: 4/28/00
PO No. : 29600.47
Project: LTMP SAMPLING EVENT
% Solids: N/A
Method: EPA 8270B
Date Analyzed: 4/25/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-16-S9-MWXD1	AQ	4/11/00	4/12/00	4/18/2000	DAS	EPA 3520	JG

Compound	Result	Units	DF	Sample PQL	Method PQL
PHENOL	<11	ug/L	1.1	11	10
BIS(2-CHLOROETHYL)ETHER	<11	ug/L	1.1	11	10
2-CHLOROPHENOL	<11	ug/L	1.1	11	10
1,3-DICHLOROBENZENE	<11	ug/L	1.1	11	10
1,4-DICHLOROBENZENE	<11	ug/L	1.1	11	10
1,2-DICHLOROBENZENE	<11	ug/L	1.1	11	10
2-METHYLPHENOL	<11	ug/L	1.1	11	10
2,2'-OXYBIS(1-CHLOROPROPANE)	<11	ug/L	1.1	11	10
4-METHYLPHENOL	<11	ug/L	1.1	11	10
N-NITROSODI-N-PROPYLAMINE	<11	ug/L	1.1	11	10
HEXACHLOROETHANE	<11	ug/L	1.1	11	10
NITROBENZENE	<11	ug/L	1.1	11	10
ISOPHORONE	<11	ug/L	1.1	11	10
2-NITROPHENOL	<11	ug/L	1.1	11	10
2,4-DIMETHYLPHENOL	<11	ug/L	1.1	11	10
BIS(2-CHLOROETHOXY)METHANE	<11	ug/L	1.1	11	10
2,4-DICHLOROPHENOL	<11	ug/L	1.1	11	10
1,2,4-TRICHLOROBENZENE	<11	ug/L	1.1	11	10
NAPHTHALENE	<11	ug/L	1.1	11	10
4-CHLOROANILINE	<11	ug/L	1.1	11	10
HEXACHLOROBUTADIENE	<11	ug/L	1.1	11	10
4-CHLORO-3-METHYLPHENOL	<11	ug/L	1.1	11	10
2-METHYLNAPHTHALENE	<11	ug/L	1.1	11	10
HEXACHLOROCYCLOPENTADIEN	<11	ug/L	1.1	11	10
2,4,6-TRICHLOROPHENOL	<11	ug/L	1.1	11	10
2,4,5-TRICHLOROPHENOL	<28	ug/L	1.1	28	25
2-CHLORONAPHTHALENE	<11	ug/L	1.1	11	10
2-NITROANILINE	<28	ug/L	1.1	28	25
DIMETHYL PHTHALATE	<11	ug/L	1.1	11	10
ACENAPHTHYLENE	<11	ug/L	1.1	11	10
2,6-DINITROTOLUENE	<11	ug/L	1.1	11	10
3-NITROANILINE	<28	ug/L	1.1	28	25
ACENAPHTHENE	<11	ug/L	1.1	11	10

Report Notes: A-1

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WQ0963-2
SDG: BN16S9MW069
Report Date: 4/28/00
PO No. : 29600.47
Project: LTMP SAMPLING EVENT
% Solids: N/A
Method: EPA 8270B
Date Analyzed: 4/25/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-16-S9-MWXD1	AQ	4/11/00	4/12/00	4/18/2000	DAS	EPA 3520	JG

Compound	Result	Units	DF	Sample PQL	Method PQL
2,4-DINITROPHENOL	<28	ug/L	1.1	28	25
4-NITROPHENOL	<28	ug/L	1.1	28	25
DIBENZOFURAN	<11	ug/L	1.1	11	10
2,4-DINITROTOLUENE	<11	ug/L	1.1	11	10
DIETHYLPHTHALATE	<11	ug/L	1.1	11	10
4-CHLOROPHENYL-PHENYLETHE	<11	ug/L	1.1	11	10
FLUORENE	<11	ug/L	1.1	11	10
4-NITROANILINE	<28	ug/L	1.1	28	25
4,6-DINITRO-2-METHYLPHENOL	<28	ug/L	1.1	28	25
N-NITROSODIPHENYLAMINE	<11	ug/L	1.1	11	10
4-BROMOPHENYL-PHENYLETHER	<11	ug/L	1.1	11	10
HEXACHLOROBENZENE	<11	ug/L	1.1	11	10
PENTACHLOROPHENOL	<28	ug/L	1.1	28	25
PHENANTHRENE	<11	ug/L	1.1	11	10
ANTHRACENE	<11	ug/L	1.1	11	10
CARBAZOLE	<11	ug/L	1.1	11	10
DI-N-BUTYLPHTHALATE	<11	ug/L	1.1	11	10
FLUORANTHENE	<11	ug/L	1.1	11	10
PYRENE	<11	ug/L	1.1	11	10
BUTYLBENZYLPHTHALATE	<11	ug/L	1.1	11	10
3,3'-DICHLOROBENZIDINE	<11	ug/L	1.1	11	10
BENZO[A]ANTHRACENE	<11	ug/L	1.1	11	10
CHRYSENE	<11	ug/L	1.1	11	10
BIS(2-ETHYLHEXYL)PHTHALATE	<11	ug/L	1.1	11	10
DI-N-OCTYLPHTHALATE	<11	ug/L	1.1	11	10
BENZO[B]FLUORANTHENE	<11	ug/L	1.1	11	10
BENZO[K]FLUORANTHENE	<11	ug/L	1.1	11	10
BENZO[A]PYRENE	<11	ug/L	1.1	11	10
INDENO[1,2,3-CD]PYRENE	<11	ug/L	1.1	11	10
DIBENZ[A,H]ANTHRACENE	<11	ug/L	1.1	11	10
BENZO[G,H,I]PERYLENE	<11	ug/L	1.1	11	10
2-FLUOROPHENOL	45	%	1.1		
PHENOL-D6	41	%	1.1		

Report Notes: A-1

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WQ0963-2
SDG: BN16S9MW069
Report Date: 4/28/00
PO No. : 29600.47
Project: LTMP SAMPLING EVENT
% Solids: N/A
Method: EPA 8270B
Date Analyzed: 4/25/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-16-S9-MWXD1	AQ	4/11/00	4/12/00	4/18/2000	DAS	EPA 3520	JG

Compound	Result	Units	DF	Sample PQL	Method PQL
NITROBENZENE-D5	63	%	1.1		
2-FLUOROBIPHENYL	63	%	1.1		
2,4,6-TRIBROMOPHENOL	59	%	1.1		
TERPHENYL-D14	52	%	1.1		

Report Notes: A-1

1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services
Matrix: WATER
Percent Solids: 0.00

Client Field ID: BN-16-S9-MWXD1
SDG Name: BN16S9MW069
Lab Sample ID: WQ0963-002

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

CAS No.	Analyte	Concentration	C	Q	M	DF
7429-90-5	ALUMINUM	79.0	B		P	1
7440-36-0	ANTIMONY	2.32	U		P	1
7440-38-2	ARSENIC	1.98	U		P	1
7440-39-3	BARIUM	9.6			P	1
7440-41-7	BERYLLIUM	0.78	B		P	1
7440-43-9	CADMIUM	2.61	U		P	1
7440-70-2	CALCIUM	8370			P	1
7440-47-3	CHROMIUM	4.02	U		P	1
7440-48-4	COBALT	2.98	U		P	1
7440-50-8	COPPER	1.93	U		P	1
7439-89-6	IRON	170			P	1
7439-92-1	LEAD	1.48	U		P	1
7439-95-4	MAGNESIUM	3200			P	1
7439-96-5	MANGANESE	719			P	1
7439-97-6	MERCURY	0.02	U		CV	1
7440-02-0	NICKEL	11.90	U		P	1
7440-09-7	POTASSIUM	2410			P	1
7782-49-2	SELENIUM	2.98	U		P	1
7440-22-4	SILVER	2.74	U		P	1
7440-23-5	SODIUM	73800			P	1
7440-28-0	THALLIUM	3.28	U		P	1
7440-62-2	VANADIUM	4.0	B		P	1
7440-66-6	ZINC	10.8	B		P	1

Color Before: COLORLESS
Clarity Before: CLEAR
Color After: COLORLESS
Clarity After: CLEAR
Comments:

FORM I - IN

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WQ0963-3
SDG: BN16S9MW069
Report Date: 4/28/00
PO No. : 29600.47
Project: LTMP SAMPLING EVENT
% Solids: N/A
Method: EPA 8270B
Date Analyzed: 4/25/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-16-S9-MW070	AQ	4/11/00	4/12/00	4/18/2000	DAS	EPA 3520	JG

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-NITROSODI-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: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WQ0963-3
SDG: BN16S9MW069
Report Date: 4/28/00
PO No. : 29600.47
Project: LTMP SAMPLING EVENT
% Solids: N/A
Method: EPA 8270B
Date Analyzed: 4/25/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-16-S9-MW070	AQ	4/11/00	4/12/00	4/18/2000	DAS	EPA 3520	JG

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	66	%	1.0		
PHENOL-D6	67	%	1.0		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WQ0963-3
SDG: BN16S9MW069
Report Date: 4/28/00
PO No. : 29600.47
Project: LTMP SAMPLING EVENT
% Solids: N/A
Method: EPA 8270B
Date Analyzed: 4/25/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-16-S9-MW070	AQ	4/11/00	4/12/00	4/18/2000	DAS	EPA 3520	JG

Compound	Result	Units	DF	Sample PQL	Method PQL
NITROBENZENE-D5	74	%	1.0		
2-FLUOROBIPHENYL	70	%	1.0		
2,4,6-TRIBROMOPHENOL	71	%	1.0		
TERPHENYL-D14	76	%	1.0		

Report Notes:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services
Matrix: WATER
Percent Solids: 0.00

Client Field ID: BN-16-S9-MW070
SDG Name: BN16S9MW069
Lab Sample ID: WQ0963-003

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

CAS No.	Analyte	Concentration	C	Q	M	DF
7429-90-5	ALUMINUM	75.4	B		P	1
7440-36-0	ANTIMONY	2.32	U		P	1
7440-38-2	ARSENIC	1.98	U		P	1
7440-39-3	BARIUM	9.1			P	1
7440-41-7	BERYLLIUM	0.56	U		P	1
7440-43-9	CADMIUM	2.61	U		P	1
7440-70-2	CALCIUM	8440			P	1
7440-47-3	CHROMIUM	6.7	B		P	1
7440-48-4	COBALT	2.98	U		P	1
7440-50-8	COPPER	1.93	U		P	1
7439-89-6	IRON	51.6			P	1
7439-92-1	LEAD	1.48	U		P	1
7439-95-4	MAGNESIUM	817			P	1
7439-96-5	MANGANESE	179			P	1
7439-97-6	MERCURY	0.03	B		CV	1
7440-02-0	NICKEL	11.90	U		P	1
7440-09-7	POTASSIUM	1100			P	1
7782-49-2	SELENIUM	2.98	U		P	1
7440-22-4	SILVER	2.74	U		P	1
7440-23-5	SODIUM	8760			P	1
7440-28-0	THALLIUM	3.28	U		P	1
7440-62-2	VANADIUM	4.0	B		P	1
7440-66-6	ZINC	8.5	B		P	1

Color Before: COLORLESS
Clarity Before: CLEAR
Color After: COLORLESS
Clarity After: CLEAR
Comments:

FORM I - IN

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WQ0963-5
SDG: BN16S9MW069
Report Date: 4/18/00
PO No. : 29600.47
Project: LTMP SAMPLING EVENT
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/13/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-16-S9-MW071	AQ	4/12/00	4/12/00	4/13/00	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	2	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: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WQ0963-5
SDG: BN16S9MW069
Report Date: 4/18/00
PO No. : 29600.47
Project: LTMP SAMPLING EVENT
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/13/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-16-S9-MW071	AQ	4/12/00	4/12/00	4/13/00	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	121	%	1.0		
TOLUENE-D8	114	%	1.0		
P-BROMOFLUOROBENZENE	116	%	1.0		
1,2-DICHLOROETHANE-D4	131	%	1.0		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WQ0963-6
SDG: BN16S9MW069
Report Date: 4/18/00
PO No. : 29600.47
Project: LTMP SAMPLING EVENT
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/13/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-16-S9-MW072	AQ	4/11/00	4/12/00	4/13/00	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: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WQ0963-6
SDG: BN16S9MW069
Report Date: 4/18/00
PO No. : 29600.47
Project: LTMP SAMPLING EVENT
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/13/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-16-S9-MW072	AQ	4/11/00	4/12/00	4/13/00	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	117	%	1.0		
TOLUENE-D8	119	%	1.0		
P-BROMOFLUOROBENZENE	117	%	1.0		
1,2-DICHLOROETHANE-D4	124	%	1.0		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WQ0963-7
SDG: BN16S9MW069
Report Date: 4/18/00
PO No. : 29600.47
Project: LTMP SAMPLING EVENT
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/13/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-16-S9-MW074	AQ	4/11/00	4/12/00	4/13/00	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	2	ug/L	1.0	1.0	1.0
CHLOROFORM	J0.5	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: J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WQ0963-7
SDG: BN16S9MW069
Report Date: 4/18/00
PO No. : 29600.47
Project: LTMP SAMPLING EVENT
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/13/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-16-S9-MW074	AQ	4/11/00	4/12/00	4/13/00	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	119	%	1.0		
TOLUENE-D8	117	%	1.0		
P-BROMOFLUOROBENZENE	120	%	1.0		
1,2-DICHLOROETHANE-D4	132	%	1.0		

Report Notes: J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WQ0963-8
SDG: BN16S9MW069
Report Date: 4/18/00
PO No.: 29600.47
Project: LTMP SAMPLING EVENT
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/13/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-16-S9-MW075	AQ	4/11/00	4/12/00	4/13/00	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: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WQ0963-8
SDG: BN16S9MW069
Report Date: 4/18/00
PO No.: 29600.47
Project: LTMP SAMPLING EVENT
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/13/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-16-S9-MW075	AQ	4/11/00	4/12/00	4/13/00	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	117	%	1.0		
TOLUENE-D8	117	%	1.0		
P-BROMOFLUOROBENZENE	118	%	1.0		
1,2-DICHLOROETHANE-D4	125	%	1.0		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WQ0963-9
SDG: BN16S9MW069
Report Date: 4/18/00
PO No.: 29600.47
Project: LTMP SAMPLING EVENT
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/13/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-16-S9-MW076	AQ	4/11/00	4/12/00	4/13/00	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	3	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	<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: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WQ0963-9
SDG: BN16S9MW069
Report Date: 4/18/00
PO No.: 29600.47
Project: LTMP SAMPLING EVENT
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/13/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-16-S9-MW076	AQ	4/11/00	4/12/00	4/13/00	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	118	%	1.0		
TOLUENE-D8	114	%	1.0		
P-BROMOFLUOROBENZENE	115	%	1.0		
1,2-DICHLOROETHANE-D4	129	%	1.0		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WQ0963-14
SDG: BN16S9MW069
Report Date: 4/18/00
PO No. : 29600.47
Project: LTMP SAMPLING EVENT
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/14/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-16-S9-MW077	AQ	4/12/00	4/12/00	4/14/00	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: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WQ0963-14
SDG: BN16S9MW069
Report Date: 4/18/00
PO No. : 29600.47
Project: LTMP SAMPLING EVENT
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/14/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-16-S9-MW077	AQ	4/12/00	4/12/00	4/14/00	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	104	%	1.0		
P-BROMOFLUOROBENZENE	99	%	1.0		
1,2-DICHLOROETHANE-D4	103	%	1.0		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WQ0963-13
SDG: BN16S9MW069
Report Date: 4/18/00
PO No. : 29600.47
Project: LTMP SAMPLING EVENT
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/14/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-16-S9-MWXD2	AQ	4/12/00	4/12/00	4/14/00	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: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WQ0963-13
SDG: BN16S9MW069
Report Date: 4/18/00
PO No. : 29600.47
Project: LTMP SAMPLING EVENT
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/14/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-16-S9-MWXD2	AQ	4/12/00	4/12/00	4/14/00	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	101	%	1.0		
1,2-DICHLOROETHANE-D4	106	%	1.0		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WQ0963-4
SDG: BN16S9MW069
Report Date: 4/28/00
PO No. : 29600.47
Project: LTMP SAMPLING EVENT
% Solids: N/A
Method: EPA 8270B
Date Analyzed: 4/25/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-16-S9-MW079	AQ	4/11/00	4/12/00	4/18/2000	DAS	EPA 3520	JG

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-NITROSODI-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: none

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WQ0963-4
SDG: BN16S9MW069
Report Date: 4/28/00
PO No. : 29600.47
Project: LTMP SAMPLING EVENT
% Solids: N/A
Method: EPA 8270B
Date Analyzed: 4/25/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-16-S9-MW079	AQ	4/11/00	4/12/00	4/18/2000	DAS	EPA 3520	JG

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	68	%	1.0		
PHENOL-D6	73	%	1.0		

Report Notes: none

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WQ0963-4
SDG: BN16S9MW069
Report Date: 4/28/00
PO No. : 29600.47
Project: LTMP SAMPLING EVENT
% Solids: N/A
Method: EPA 8270B
Date Analyzed: 4/25/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-16-S9-MW079	AQ	4/11/00	4/12/00	4/18/2000	DAS	EPA 3520	JG

Compound	Result	Units	DF	Sample PQL	Method PQL
NITROBENZENE-D5	76	%	1.0		
2-FLUOROBIPHENYL	74	%	1.0		
2,4,6-TRIBROMOPHENOL	78	%	1.0		
TERPHENYL-D14	79	%	1.0		

Report Notes: none

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INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services
Matrix: WATER
Percent Solids: 0.00

Client Field ID: BN-16-S9-MW079
SDG Name: BN16S9MW069
Lab Sample ID: WQ0963-004

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

CAS No.	Analyte	Concentration	C	Q	M	DF
7429-90-5	ALUMINUM	140			P	1
7440-36-0	ANTIMONY	2.32	U		P	1
7440-38-2	ARSENIC	1.98	U		P	1
7440-39-3	BARIUM	222			P	1
7440-41-7	BERYLLIUM	0.78	B		P	1
7440-43-9	CADMIUM	2.61	U		P	1
7440-70-2	CALCIUM	23000			P	1
7440-47-3	CHROMIUM	4.02	U		P	1
7440-48-4	COBALT	2.98	U		P	1
7440-50-8	COPPER	1.93	U		P	1
7439-89-6	IRON	18600			P	1
7439-92-1	LEAD	1.48	U		P	1
7439-95-4	MAGNESIUM	1550			P	1
7439-96-5	MANGANESE	86.1			P	1
7439-97-6	MERCURY	0.04	B		CV	1
7440-02-0	NICKEL	11.90	U		P	1
7440-09-7	POTASSIUM	3090			P	1
7782-49-2	SELENIUM	2.98	U		P	1
7440-22-4	SILVER	2.74	U		P	1
7440-23-5	SODIUM	4620			P	1
7440-28-0	THALLIUM	4.7	B		P	1
7440-62-2	VANADIUM	4.01	U		P	1
7440-66-6	ZINC	11.8	B		P	1

Color Before: COLORLESS
Clarity Before: CLEAR
Color After: COLORLESS
Clarity After: CLEAR
Comments:

FORM I - IN

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WQ0963-10
SDG: BN16S9MW069
Report Date: 4/18/00
PO No. : 29600.47
Project: LTMP SAMPLING EVENT
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/14/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-16-S9-MW080	AQ	4/11/00	4/12/00	4/14/00	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: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WQ0963-10
SDG: BN16S9MW069
Report Date: 4/18/00
PO No. : 29600.47
Project: LTMP SAMPLING EVENT
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/14/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-16-S9-MW080	AQ	4/11/00	4/12/00	4/14/00	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	105	%	1.0		
TOLUENE-D8	103	%	1.0		
P-BROMOFLUOROBENZENE	98	%	1.0		
1,2-DICHLOROETHANE-D4	101	%	1.0		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WQ0963-11
SDG: BN16S9MW069
Report Date: 4/18/00
PO No.: 29600.47
Project: LTMP SAMPLING EVENT
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/14/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-16-S9-MW022	AQ	4/11/00	4/12/00	4/14/00	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: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WQ0963-11
SDG: BN16S9MW069
Report Date: 4/18/00
PO No.: 29600.47
Project: LTMP SAMPLING EVENT
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/14/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-16-S9-MW022	AQ	4/11/00	4/12/00	4/14/00	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	105	%	1.0		
TOLUENE-D8	107	%	1.0		
P-BROMOFLUOROBENZENE	101	%	1.0		
1,2-DICHLOROETHANE-D4	112	%	1.0		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washinglon Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WQ0963-12
SDG: BN16S9MW069
Report Date: 4/18/00
PO No. : 29600.47
Project: LTMP SAMPLING EVENT
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/14/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-16-S9-MW227	AQ	4/11/00	4/12/00	4/14/00	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	J0.7	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: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WQ0963-12
SDG: BN16S9MW069
Report Date: 4/18/00
PO No. : 29600.47
Project: LTMP SAMPLING EVENT
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/14/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-16-S9-MW227	AQ	4/11/00	4/12/00	4/14/00	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	102	%	1.0		
TOLUENE-D8	105	%	1.0		
P-BROMOFLUOROBENZENE	95	%	1.0		
1,2-DICHLOROETHANE-D4	104	%	1.0		

Report Notes: J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550
Proj. ID: NASB BRUNSWICK

Lab Number: WQ1004-10
SDG: BN16EPSW10
Report Date: 4/25/00
PO No. : 29600.47
Project: LTMP EVENT 16
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/20/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-16-EP-QT001	AQ	4/13/00	4/14/00	4/20/00	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	J3	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: B, J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550
Proj. ID: NASB BRUNSWICK

Lab Number: WQ1004-10
SDG: BN16EPSW10
Report Date: 4/25/00
PO No. : 29600.47
Project: LTMP EVENT 16
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/20/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-16-EP-QT001	AQ	4/13/00	4/14/00	4/20/00	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	106	%	1.0		
1,2-DICHLOROETHANE-D4	119	%	1.0		

Report Notes: B, J

Appendix D.2

Surface Water Samples
Site 9

APPENDIX D.2

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

Sample Designation	Sample Station
Surface Water Samples	
BN-16-S9-SW10	SW-010
Equipment Rinsate Blank	
BN-16-S9-QS-002	Rinse Blank
Source Water Blank	
BN-16-S1-QD-001	Source Water

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: Sue Chase
Phone #: (207) 798-5977
Fax #: (207) 798-4636
Address: 3 Washington Center
City: Newburgh
State: NY
Zip Code: 12550
Purchase Order #:
Proj. Name / No.: LTMP Sampling event
Katahdin Quote #:
Bill (if different than above):
Address:
Sampler (Print / Sign): Suzanne Chase
Copies To:

LAB USE ONLY
WORK ORDER #: WQ0962
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	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N
	BN-16-59-LT901	4/11/00/1605	W	3	X										
	BN-16-59-LTXD1	4/11/00/—	W	3	X										
	BN-1659-5W010 MS/MSD	4/11/00/1535	W	9	X										
	BN-16-59-QS002	4/11/00/1515	W	3	X										
	BN-1659-QS001	4/11/00/1520	W	3	X										
		/													
		/													
		/													
		/													
		/													
		/													
		/													
		/													
		/													
		/													
		/													

COMMENTS

Please send a copy of COC and Form I-3 to Sue Chase at Brunswick

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
[illegible]	4/12/00 1545	[illegible]		4-12-00 1640	[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 04092
Tel: (207) 874-2400
Fax: (207) 775-4029

CHAIN of CUSTODY

PLEASE PRINT IN PEN

Page ___ of ___

Client: EA

Contact: Sue Chase

Phone #: (207) 798-5977

Fax #: (207) 798-4636

Address: 3 Washington Center

City: Newburgh

State: NY

Zip Code: 12550

Purchase Order #:

Proj. Name / No.: LTMP Event 16

Katahdin Quote #:

Bill (if different than above):

Address:

Sampler (Print / Sign):

Copies To:

LAB USE ONLY

WORK ORDER #: WQ1001

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	Filt. ☐Y ☐N TAL metals	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N
✓	BN-16-SI-SP001	4/13 / 1310	W	9	X		MS / MSD							
	BN-16-SI-SP001	4/13 / 1310	W	2		X	MS							
✓	BN-16-SI-SP003	4/13 / 1345	W	4	X	X								
✓	BN-16-SI-SP004	4/13 / 1400	W	4	X	X								
✓	BN-16-SI-SP005	4/13 / 1430	W	4	X	X								
✓	BN-16-SI-SP009	4/13 / 1440	W	4	X	X								
✓	BN-16-SI-SPX01	4/13 / —	W	4	X	X								
	BN-16-SI-QS001 water	4/13/00 / 1550	W	4	X	X								
✓	BN-16-SI-QS002 sediment	4/13/00 / 1555	W	4	X	X								
✓	BN-16-SI-SW004	4/13 / 1340	W	4	X	X								
✓	BN-16-SI-SWX01	4/13 / —	W	4	X	X								
✓	BN-16-SI-SW007	4/13 / 1350	W	4	X	X								
	BN-16-SI-SW008	4/13 / 1310	W	4	X	X								
	BN-16-SI-SW009	4/13 / 1300	W	4	X	X								
	BN-16-SI-QD001	4/13 / 0915	W	4	X	X								
		/												

COMMENTS Begins + Ends SDG # BN-16-SI-SP001
temp blank + trip blank included

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
[signature]	4/14/00 1000	[signature]			
Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WQ0962-3
SDG: BN16S9LT901
Report Date: 4/19/00
PO No. : 29600.47
Project: LTMP SAMPLING EVENT
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/14/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-16-S9-SW010	AQ	4/11/00	4/12/00	4/14/00	JSS	5030	JSS

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	<1	ug/L	1.0	1.0	1.0
ACETONE	<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: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WQ0962-3
SDG: BN16S9LT901
Report Date: 4/19/00
PO No. : 29600.47
Project: LTMP SAMPLING EVENT
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/14/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-16-S9-SW010	AQ	4/11/00	4/12/00	4/14/00	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	91	%	1.0		
TOLUENE-D8	103	%	1.0		
P-BROMOFLUOROBENZENE	97	%	1.0		
1,2-DICHLOROETHANE-D4	79	%	1.0		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NASB BRUNSWICK

Lab Number: WQ1004-10
SDG: BN16EPSW10
Report Date: 4/25/00
PO No. : 29600.47
Project: LTMP EVENT 16
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/20/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-16-EP-QT001	AQ	4/13/00	4/14/00	4/20/00	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	J3	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: B, J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NASB BRUNSWICK

Lab Number: WQ1004-10
SDG: BN16EPSW10
Report Date: 4/25/00
PO No. : 29600.47
Project: LTMP EVENT 16
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/20/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-16-EP-QT001	AQ	4/13/00	4/14/00	4/20/00	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	106	%	1.0		
1,2-DICHLOROETHANE-D4	119	%	1.0		

Report Notes: B, J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WQ0962-5
SDG: BN16S9LT901
Report Date: 4/19/00
PO No. : 29600.47
Project: LTMP SAMPLING EVENT
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/14/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-16-S9-QS001	AQ	4/11/00	4/12/00	4/14/00	JSS	5030	JSS

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

Report Notes: B, J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WQ0962-5
SDG: BN16S9LT901
Report Date: 4/19/00
PO No. : 29600.47
Project: LTMP SAMPLING EVENT
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/14/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-16-S9-QS001	AQ	4/11/00	4/12/00	4/14/00	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	90	%	1.0		
TOLUENE-D8	103	%	1.0		
P-BROMOFLUOROBENZENE	97	%	1.0		
1,2-DICHLOROETHANE-D4	78	%	1.0		

Report Notes: B, J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NASB BRUNSWICK

Lab Number: WQ1001-14
SDG: BN16S1SP001
Report Date: 4/24/00
PO No. : 29600.47
Project: LTMP EVENT 16
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/19/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-16-S1-QD001	AQ	4/13/00	4/14/00	4/19/00	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: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NASB BRUNSWICK

Lab Number: WQ1001-14
SDG: BN16S1SP001
Report Date: 4/24/00
PO No. : 29600.47
Project: LTMP EVENT 16
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/19/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-16-S1-QD001	AQ	4/13/00	4/14/00	4/19/00	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	98	%	1.0		
TOLUENE-D8	103	%	1.0		
P-BROMOFLUOROBENZENE	102	%	1.0		
1,2-DICHLOROETHANE-D4	94	%	1.0		

Report Notes:

I

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services | Client Field ID: BN-16-S1-QD001

Matrix: WATER | SDC Name: BN16S1SP001

Percent Solids: 0.00 | Lab Sample ID: WQ1001-014

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

CAS No.	Analyte	Concentration	C	Q	M	DF
7429-90-5	ALUMINUM	16.44	U		P	1
7440-36-0	ANTIMONY	2.32	U		P	1
7440-38-2	ARSENIC	1.98	U		P	1
7440-39-3	BARIUM	0.30	U		P	1
7440-41-7	BERYLLIUM	0.18	B		P	1
7440-43-9	CADMIUM	0.30	U	E	P	1
7440-70-2	CALCIUM	24.7	B		P	1
7440-47-3	CHROMIUM	0.74	U	E	P	1
7440-48-4	COBALT	0.71	U		P	1
7440-50-8	COPPER	1.52	U		P	1
7439-89-6	IRON	20.31	U		P	1
7439-92-1	LEAD	1.8	B		P	1
7439-95-4	MAGNESIUM	5.51	U		P	1
7439-96-5	MANGANESE	0.35	B		P	1
7439-97-6	MERCURY	0.03	B	N	CV	1
7440-02-0	NICKEL	1.10	U		P	1
7440-09-7	POTASSIUM	342	B		P	1
7782-49-2	SELENIUM	2.98	U		P	1
7440-22-4	SILVER	1.04	U		P	1
7440-23-5	SODIUM	24.9	B		P	1
7440-28-0	THALLIUM	3.28	U		P	1
7440-62-2	VANADIUM	0.94	U		P	1
7440-66-6	ZINC	0.32	U		P	1

Color Before: COLORLESS | Clarity Before: CLEAR

Color After: COLORLESS | Clarity After: CLEAR

Comments:

FORM I - IN

Appendix D.3

Sediment Samples
Site 9

APPENDIX D.3

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

Sample Designation	Sample Station
Sediment Samples	
BN-16-S9-SD010	SED-010
BN-16-S9-SDX1	SED-010 - Duplicate
Equipment Rinsate Blank	
BN-16-S9-QS001	Rinse blank
Source Water Blank	
BN-16-S1-QD-001	Source Water

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: Sue Chase
Phone #: (207) 798-5977
Fax #: (207) 798-4636
Address: 3 Washington Center
City: Newburgh
State: NY
Zip Code: 12550
Purchase Order #:
Proj. Name / No.: LTMP sampling event
Katahdin Quote #:
Bill (if different than above):
Address:
Sampler (Print / Sign): Suzanne Chase
Copies To:

LAB USE ONLY
WORK ORDER #: WQ0961
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									
					Filt. ☐Y☒N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N
	BN-16-S9SD010	4/11/00/1545	Soil	42	X	MS/MSD								
	~~BN-16-S9QS001~~	~~/~~	~~W~~	~~3~~	~~X~~									
	BN-16-S9-SDXD1	4/11/00 —	Soil	2	X									
		/												
		/												
		/												
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		/												
		/												

COMMENTS

Please send a copy of COC and Form I's to Sue Chase at Brunswick.

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
[illegible]	4/12/00 1545	[illegible]		4-12-00 1640	[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 04092
Tel: (207) 874-2400
Fax: (207) 775-4029

CHAIN of CUSTODY

PLEASE PRINT IN PEN

Page ____ of ____

Client: EA

Contact: Sue Chase

Phone #: (207) 798-5977

Fax #: (207) 798-4036

Address: 3 Washington Center

City: Newburgh

State: NY

Zip Code: 12550

Purchase Order #:

Proj. Name / No.: LTMP Event 16

Katahdin Quote #:

Bill (if different than above):

Address:

Sampler (Print / Sign):

Copies To:

LAB USE ONLY

WORK ORDER #: WQ1001

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 (Filt. ☐Y ☐N)	TAL metals (Filt. ☐Y ☐N)	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N
✓	BN-16-SI-SP001	4/13 / 1310	W	9	X		MS / MSD							
	BN-16-SI-SP001	4/13 / 1310	W	2		X	MS							
✓	BN-16-SI-SP003	4/13 / 1345	W	4	X	X								
✓	BN-16-SI-SP004	4/13 / 1400	W	4	X	X								
✓	BN-16-SI-SP005	4/13 / 1430	W	4	X	X								
✓	BN-16-SI-SP009	4/13 / 1440	W	4	X	X								
	BN-16-SI-SPX01	4/13 / —	W	4	X	X								
	BN-16-SI-QS001 water	4/13/00 / 1550	W	4	X	X								
✓	BN-16-SI-QS002 sediment	4/13/00 / 1555	W	4	X	X								
	BN-16-SI-SW004	4/13 / 1340	W	4	X	X								
✓	BN-16-SI-SWX01	4/13 / —	W	4	X	X								
✓	BN-16-SI-SW007	4/13 / 1350	W	4	X	X								
	BN-16-SI-SW008	4/13 / 1310	W	4	X	X								
	BN-16-SI-SW009	4/13 / 1300	W	4	X	X								
	BN-16-SI-QD001	4/13 / 0915	W	4	X	X								
		/												

COMMENTS Begins + Ends SDG # BN-16-SI-SP001
temp blank + trip blank included

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
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Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WQ0961-1
SDG: WQ0961
Report Date: 4/21/00
PO No. : 29600.47
Project: LTMP SAMPLING EVENT
% Solids: 71
Method: EPA 8260
Date Analyzed: 4/14/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-16-S9-SD010	SL	4/11/00	4/12/00	4/14/00	HMP	5030	HMP

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<3	ug/Kg	1.4	3	2.0
BROMOMETHANE	<3	ug/Kg	1.4	3	2.0
VINYL CHLORIDE	<3	ug/Kg	1.4	3	2.0
CHLOROETHANE	<3	ug/Kg	1.4	3	2.0
METHYLENE CHLORIDE	B10	ug/Kg	1.4	1	1.0
ACETONE	B9	ug/Kg	1.4	7	5
CARBON DISULFIDE	<1	ug/Kg	1.4	1	1.0
1,1-DICHLOROETHENE	<1	ug/Kg	1.4	1	1.0
1,1-DICHLOROETHANE	<1	ug/Kg	1.4	1	1.0
TOTAL 1,2-DICHLOROETHENE	17	ug/Kg	1.4	1	1.0
CHLOROFORM	<1	ug/Kg	1.4	1	1.0
1,2-DICHLOROETHANE	<1	ug/Kg	1.4	1	1.0
2-BUTANONE	<7	ug/Kg	1.4	7	5
1,1,1-TRICHLOROETHANE	<1	ug/Kg	1.4	1	1.0
CARBON TETRACHLORIDE	<1	ug/Kg	1.4	1	1.0
BROMODICHLOROMETHANE	<1	ug/Kg	1.4	1	1.0
1,2-DICHLOROPROPANE	<1	ug/Kg	1.4	1	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/Kg	1.4	1	1.0
TRICHLOROETHENE	5	ug/Kg	1.4	1	1.0
DIBROMOCHLOROMETHANE	<1	ug/Kg	1.4	1	1.0
1,1,2-TRICHLOROETHANE	<1	ug/Kg	1.4	1	1.0
BENZENE	<7	ug/Kg	1.4	7	5.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/Kg	1.4	1	1.0
BROMOFORM	<1	ug/Kg	1.4	1	1.0
4-METHYL-2-PENTANONE	<4	ug/Kg	1.4	4	3
2-HEXANONE	<6	ug/Kg	1.4	6	4
TETRACHLOROETHENE	<1	ug/Kg	1.4	1	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/Kg	1.4	1	1.0
TOLUENE	<7	ug/Kg	1.4	7	5.0
CHLOROBENZENE	<1	ug/Kg	1.4	1	1.0
ETHYLBENZENE	<7	ug/Kg	1.4	7	5.0
STYRENE	<1	ug/Kg	1.4	1	1.0
TOTAL XYLENES	<7	ug/Kg	1.4	7	5.0

Report Notes: B

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WQ0961-1
SDG: WQ0961
Report Date: 4/21/00
PO No. : 29600.47
Project: LTMP SAMPLING EVENT
% Solids: 71
Method: EPA 8260
Date Analyzed: 4/14/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-16-S9-SD010	SL	4/11/00	4/12/00	4/14/00	HMP	5030	HMP

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/Kg	1.4	1	1.0
1,3-DICHLOROBENZENE	<1	ug/Kg	1.4	1	1.0
1,4-DICHLOROBENZENE	<1	ug/Kg	1.4	1	1.0
DIBROMOFLUOROMETHANE	113	%	1.4		
TOLUENE-D8	108	%	1.4		
P-BROMOFLUOROBENZENE	81	%	1.4		
1,2-DICHLOROETHANE-D4	104	%	1.4		

Report Notes: B

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WQ0961-2
SDG: WQ0961
Report Date: 4/21/00
PO No. : 29600.47
Project: LTMP SAMPLING EVENT
% Solids: 77
Method: EPA 8260
Date Analyzed: 4/14/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-16-S9-SDXD1	SL	4/11/00	4/12/00	4/14/00	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	B8	ug/Kg	1.3	1	1.0
ACETONE	B6	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: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WQ0961-2
SDG: WQ0961
Report Date: 4/21/00
PO No. : 29600.47
Project: LTMP SAMPLING EVENT
% Solids: 77
Method: EPA 8260
Date Analyzed: 4/14/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-16-S9-SDXD1	SL	4/11/00	4/12/00	4/14/00	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	99	%	1.3		
TOLUENE-D8	94	%	1.3		
P-BROMOFLUOROBENZENE	78	%	1.3		
1,2-DICHLOROETHANE-D4	94	%	1.3		

Report Notes: B

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550
Proj. ID: NASB BRUNSWICK

Lab Number: WQ1004-10
SDG: BN16EPSW10
Report Date: 4/25/00
PO No. : 29600.47
Project: LTMP EVENT 16
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/20/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-16-EP-QT001	AQ	4/13/00	4/14/00	4/20/00	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	J3	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: B, J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550
Proj. ID: NASB BRUNSWICK

Lab Number: WQ1004-10
SDG: BN16EPSW10
Report Date: 4/25/00
PO No. : 29600.47
Project: LTMP EVENT 16
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/20/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-16-EP-QT001	AQ	4/13/00	4/14/00	4/20/00	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	106	%	1.0		
1,2-DICHLOROETHANE-D4	119	%	1.0		

Report Notes: B, J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WQ0962-4
SDG: BN16S9LT901
Report Date: 4/19/00
PO No. : 29600.47
Project: LTMP SAMPLING EVENT
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/14/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-16-S9-QS002	AQ	4/11/00	4/12/00	4/14/00	JSS	5030	JSS

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	JB0.7	ug/L	1.0	1.0	1.0
ACETONE	<5	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<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: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WQ0962-4
SDG: BN16S9LT901
Report Date: 4/19/00
PO No. : 29600.47
Project: LTMP SAMPLING EVENT
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/14/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-16-S9-QS002	AQ	4/11/00	4/12/00	4/14/00	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	92	%	1.0		
TOLUENE-D8	102	%	1.0		
P-BROMOFLUOROBENZENE	97	%	1.0		
1,2-DICHLOROETHANE-D4	82	%	1.0		

Report Notes: B, J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550
Proj. ID: NASB BRUNSWICK

Lab Number: WQ1001-14
SDG: BN16S1SP001
Report Date: 4/24/00
PO No. : 29600.47
Project: LTMP EVENT 16
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/19/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-16-S1-QD001	AQ	4/13/00	4/14/00	4/19/00	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: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550
Proj. ID: NASB BRUNSWICK

Lab Number: WQ1001-14
SDG: BN16S1SP001
Report Date: 4/24/00
PO No. : 29600.47
Project: LTMP EVENT 16
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/19/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-16-S1-QD001	AQ	4/13/00	4/14/00	4/19/00	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	98	%	1.0		
TOLUENE-D8	103	%	1.0		
P-BROMOFLUOROBENZENE	102	%	1.0		
1,2-DICHLOROETHANE-D4	94	%	1.0		

Report Notes:

1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services
Client Field ID: BN-16-S1-QD001
Matrix: WATER
SDG Name: BN16S1SP001
Percent Solids: 0.00
Lab Sample ID: WQ1001-014

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

CAS No.	Analyte	Concentration	C	Q	M	DF
7429-90-5	ALUMINUM	16.44	U		P	1
7440-36-0	ANTIMONY	2.32	U		P	1
7440-38-2	ARSENIC	1.98	U		P	1
7440-39-3	BARIUM	0.30	U		P	1
7440-41-7	BERYLLIUM	0.18	B		P	1
7440-43-9	CADMIUM	0.30	U	E	P	1
7440-70-2	CALCIUM	24.7	B		P	1
7440-47-3	CHROMIUM	0.74	U	E	P	1
7440-48-4	COBALT	0.71	U		P	1
7440-50-8	COPPER	1.52	U		P	1
7439-89-6	IRON	20.31	U		P	1
7439-92-1	LEAD	1.8	B		P	1
7439-95-4	MAGNESIUM	5.51	U		P	1
7439-96-5	MANGANESE	0.35	B		P	1
7439-97-6	MERCURY	0.03	B	N	CV	1
7440-02-0	NICKEL	1.10	U		P	1
7440-09-7	POTASSIUM	342	B		P	1
7782-49-2	SELENIUM	2.98	U		P	1
7440-22-4	SILVER	1.04	U		P	1
7440-23-5	SODIUM	24.9	B		P	1
7440-28-0	THALLIUM	3.28	U		P	1
7440-62-2	VANADIUM	0.94	U		P	1
7440-66-6	ZINC	0.32	U		P	1

Color Before: COLORLESS
Clarity Before: CLEAR
Color After: COLORLESS
Clarity After: CLEAR
Comments:

FORM I - IN

Appendix D.4

Leachate Station Seep Sample

APPENDIX D.4

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

Sample Designation	Sample Station
LT-901 (Seep) Samples	
BN-16-S9-LT901	LT-901
LTXD1	LT-901 - Duplicate
Rinsate Blank	
BN-16-S9-QS002	Rinsate Blank
Source Water Blank	
BN-16-S1-QD-001	Source Water

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: Sue Chase
Phone #: (207) 798-5977
Fax #: (207) 798-4636
Address: 3 Washington Center
City: Newburgh
State: NY
Zip Code: 12550
Purchase Order #:
Proj. Name / No.: LTMP Sampling event
Katahdin Quote #:
Bill (if different than above):
Address:
Sampler (Print / Sign): Suzanne Chase
Copies To:

LAB USE ONLY
WORK ORDER #: WQ0962
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	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N
	BN-16-59-LT901	4/11/00 / 1605	W	3	X										
	BN-16-59-LTX01	4/11/00 / —	W	3	X										
	BN-1659-SW010 MS MSD	4/11/00 / 1535	W	9	X										
	BN-16-59-QS002	4/11/00 / 1515	W	3	X										
	BN-1659-QS001	4/11/00 / 1520	W	3	X										
		/													
		/													
		/													
		/													
		/													
		/													
		/													
		/													
		/													
		/													
		/													

COMMENTS

Please send a copy of COC and Form I's to Sue Chase at Brunswick

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
Mike	4/12/00 1645	[illegible]		4-12-00 1640	[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 04092
Tel: (207) 874-2400
Fax: (207) 775-4029

CHAIN of CUSTODY

PLEASE PRINT IN PEN

Page ___ of ___

Client: EA
Contact: Sue Chase
Phone #: (207) 798-5977
Fax #: (207) 798-4636
Address: 3 Washington Center
City: Newburgh
State: NY
Zip Code: 12550
Purchase Order #:
Proj. Name / No.: LTMP Event 16
Katahdin Quote #:
Bill (if different than above):
Address:
Sampler (Print / Sign):
Copies To:

LAB USE ONLY
WORK ORDER #: WQ1001
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	Filt. ☐Y☒N TAL metals	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N
✓	BN-16-SI-SP001	4/13 / 1310	W	9	X		MS / MSD							
	BN-16-SI-SP001	4/13 / 1310	W	2		X	MS							
✓	BN-16-SI-SP003	4/13 / 1345	W	4	X	X								
✓	BN-16-SI-SP004	4/13 / 1400	W	4	X	X								
✓	BN-16-SI-SP005	4/13 / 1420	W	4	X	X								
✓	BN-16-SI-SP009	4/13 / 1440	W	4	X	X								
✓	BN-16-SI-SPXD1	4/13 / —	W	4	X	X								
	BN-16-SI-QS001 water	4/13 / 1550	W	4	X	X								
✓	BN-16-SI-QS002 sed.	4/13 / 1555	W	4	X	X								
✓	BN-16-SI-SW004	4/13 / 1340	W	4	X	X								
✓	BN-16-SI-SWXD1	4/13 / —	W	4	X	X								
✓	BN-16-SI-SW007	4/13 / 1350	W	4	X	X								
	BN-16-SI-SW008	4/13 / 1310	W	4	X	X								
	BN-16-SI-SW009	4/13 / 1300	W	4	X	X								
	BN-16-SI-QD001	4/13 / 0915	W	4	X	X								
		/												

COMMENTS Begins + Ends SDG # BN-16-SI-SP001
temp blank + trip blank included

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
[signature]	4/14/00 1000	[signature]			
Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WQ0962-1
SDG: BN16S9LT901
Report Date: 4/19/00
PO No. : 29600.47
Project: LTMP SAMPLING EVENT
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/14/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-16-S9-LT901	AQ	4/11/00	4/12/00	4/14/00	JSS	5030	JSS

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	<1	ug/L	1.0	1.0	1.0
ACETONE	J4	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WQ0962-1
SDG: BN16S9LT901
Report Date: 4/19/00
PO No. : 29600.47
Project: LTMP SAMPLING EVENT
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/14/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-16-S9-LT901	AQ	4/11/00	4/12/00	4/14/00	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	89	%	1.0		
TOLUENE-D8	104	%	1.0		
P-BROMOFLUOROBENZENE	94	%	1.0		
1,2-DICHLOROETHANE-D4	76	%	1.0		

Report Notes: J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WQ0962-2
SDG: BN16S9LT901
Report Date: 4/19/00
PO No. : 29600.47
Project: LTMP SAMPLING EVENT
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/14/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-16-S9-LTXD1	AQ	4/11/00	4/12/00	4/14/00	JSS	5030	JSS

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	<1	ug/L	1.0	1.0	1.0
ACETONE	<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: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WQ0962-2
SDG: BN16S9LT901
Report Date: 4/19/00
PO No. : 29600.47
Project: LTMP SAMPLING EVENT
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/14/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-16-S9-LTXD1	AQ	4/11/00	4/12/00	4/14/00	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	91	%	1.0		
TOLUENE-D8	103	%	1.0		
P-BROMOFLUOROBENZENE	98	%	1.0		
1,2-DICHLOROETHANE-D4	81	%	1.0		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550
Proj. ID: NASB BRUNSWICK

Lab Number: WQ1004-10
SDG: BN16EPSW10
Report Date: 4/25/00
PO No. : 29600.47
Project: LTMP EVENT 16
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/20/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-16-EP-QT001	AQ	4/13/00	4/14/00	4/20/00	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	J3	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: B, J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550
Proj. ID: NASB BRUNSWICK

Lab Number: WQ1004-10
SDG: BN16EPSW10
Report Date: 4/25/00
PO No. : 29600.47
Project: LTMP EVENT 16
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/20/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-16-EP-QT001	AQ	4/13/00	4/14/00	4/20/00	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	106	%	1.0		
1,2-DICHLOROETHANE-D4	119	%	1.0		

Report Notes: B, J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550
Proj. ID: NASB BRUNSWICK

Lab Number: WQ1001-14
SDG: BN16S1SP001
Report Date: 4/24/00
PO No. : 29600.47
Project: LTMP EVENT 16
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/19/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-16-S1-QD001	AQ	4/13/00	4/14/00	4/19/00	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: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550
Proj. ID: NASB BRUNSWICK

Lab Number: WQ1001-14
SDG: BN16S1SP001
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Project: LTMP EVENT 16
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/19/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-16-S1-QD001	AQ	4/13/00	4/14/00	4/19/00	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	98	%	1.0		
TOLUENE-D8	103	%	1.0		
P-BROMOFLUOROBENZENE	102	%	1.0		
1,2-DICHLOROETHANE-D4	94	%	1.0		

Report Notes:

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INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** BN-16-S1-QD001

Matrix: WATER **SDG Name:** BN16S1SP001

Percent Solids: 0.00 **Lab Sample ID:** WQ1001-014

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

CAS No.	Analyte	Concentration	C	Q	M	DF
7429-90-5	ALUMINUM	16.44	U		P	1
7440-36-0	ANTIMONY	2.32	U		P	1
7440-38-2	ARSENIC	1.98	U		P	1
7440-39-3	BARIUM	0.30	U		P	1
7440-41-7	BERYLLIUM	0.18	B		P	1
7440-43-9	CADMIUM	0.30	U	E	P	1
7440-70-2	CALCIUM	24.7	B		P	1
7440-47-3	CHROMIUM	0.74	U	E	P	1
7440-48-4	COBALT	0.71	U		P	1
7440-50-8	COPPER	1.52	U		P	1
7439-89-6	IRON	20.31	U		P	1
7439-92-1	LEAD	1.8	B		P	1
7439-95-4	MAGNESIUM	5.51	U		P	1
7439-96-5	MANGANESE	0.35	B		P	1
7439-97-6	MERCURY	0.03	B	N	CV	1
7440-02-0	NICKEL	1.10	U		P	1
7440-09-7	POTASSIUM	342	B		P	1
7782-49-2	SELENIUM	2.98	U		P	1
7440-22-4	SILVER	1.04	U		P	1
7440-23-5	SODIUM	24.9	B		P	1
7440-28-0	THALLIUM	3.28	U		P	1
7440-62-2	VANADIUM	0.94	U		P	1
7440-66-6	ZINC	0.32	U		P	1

Color Before: COLORLESS Clarity Before: CLEAR

Color After: COLORLESS Clarity After: CLEAR

Comments:

FORM I - IN

REPORT AND COMMENTS TRACKING FORM, ACTIVE REPORTS FOR LONG-TERM MONITORING PROGRAM
ISSUE DATE: 6/23/2000

Report	Date Distributed	DEP	EPA	Lepage Environmental	Responses to Comments
ANNUAL REPORTS					
1999 Annual Reports					
Draft Site 9	18 FEB 2000	4 APR 2000	10 APR 2000		Includes response to comments on Monitoring Event 14 and 15 Reports, and 1998 Annual Report
Final Site 9	12 MAY 2000	23 MAY 2000	23 MAY 2000		Includes response to comments on Monitoring Event 14 and 15 Reports, and 1998 Annual Report
Draft Sites 1 and 3 and Eastern Plume	20 MAR 2000	7 APR 2000	18 APR 2000		Includes response to comments on Monitoring Event 14 and 15 Reports, and 1998 Annual Report
Final Sites 1 and 3 and Eastern Plume	20 MAY 2000	23 MAY 2000	23 MAY 2000		Includes response to comments on Monitoring Event 14 and 15 Reports, and 1998 Annual Report
MONITORING EVENT REPORTS					
Monitoring Event 16 (June 2000)					
Sites 1 & 3 and Eastern Plume	23 JUN 2000				
Site 9	23 JUN 2000				
OTHER REPORTS					
LTMP Revisions					
Sites 1 & 3 and Eastern Plume - FINAL	29 FEB 1999	12 MAR 2000	29 MAR 2000		Response to MEDEP and EPA comments on Draft Final included with Final LTMP
Site 2 - FINAL	29 FEB 1999	10 MAR 2000	30 MAR 2000		Response to MEDEP, EPA, and Lepage comments on Draft included with Final LTMP
Building 95 DRAFT	10 MAY 1999	20 JUL 1999	18 MAY 1999		Response to MEDEP and EPA comments on Draft LTMP included with Draft Final LTMP
Building 95 DRAFT FINAL	27 MAR 2000	20 APR 2000	28 APR 2000		Only MEDEP comments; no additional comments from EPA
Building 95 FINAL	26 MAY 2000				
Site 9 - FINAL	26 MAY 2000	20 JAN 2000	3 NOV 1999		Will respond with next revision of LTMP
Building 95 Closeout Report					
Building 95 Closeout Report	AUG 1998	8 OCT 1998	22 SEP 1998	16 OCT 1998	Report issued by Harding Lawson Associates

NOTE: Grey areas indicate no comments received.