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NAS BRUNSWICK
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Final Report

Monitoring Event 8 - March 1997
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
3 Washington Center
Newburgh, New York 12550

July 1997
296.0047

296.0047

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Michael S. Battle 7/16/97

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

S. Morekas 7/16/97

Sam Morekas — Date
Program Manager

July 1997

QUALITY REVIEW STATEMENT

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

EA Project Number: 29600.47.7391

Description of Report/Deliverable:

Final Report, Monitoring Event 8 - March 1997, Site 9: Neptune Drive Disposal Site, Naval Air Station, Brunswick, Maine

EA CTO Manager: Michael S. Battle, 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 Reviewers

16 JUL 97

Charles W. Houlik, Jr., Ph.D., CPG
Chief Geologist

(Date)

16 JULY 97

Kenneth C. Wiswall, P.E.
Chemical Engineer

(Date)

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1. PROJECT ACTIVITIES

1.1 INTRODUCTION

Under Contract No. N62472-92-D-1296, Contract Task Order (CTO) No. 0047, Northern Division, Naval Facilities Engineering Command contracted with EA Engineering, Science, and Technology to perform long-term monitoring at 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 Bath, Maine (Figure 1). The layout of Site 9 is provided on Figure 2.

At Site 9, the Navy is performing long-term monitoring, maintenance, and corrective measures as part of the long-term remedial actions required by the Interim Groundwater Record of Decision dated September 1994 (ABB Environmental Services [ABB-ES] 1994a). A Long-Term Monitoring Plan (LTMP) was established pursuant to the Interim Groundwater Record of Decision (ABB-ES 1995). The Quality Assurance Project Plan prepared for long-term monitoring activities is contained in a companion LTMP prepared for Building 95 and Sites 1 and 3 and the Eastern Plume (ABB-ES 1994b). The LTMP document establishes the requirement for monitoring/sampling of ground water, surface water, sediment, and leachate to be conducted several times annually, along with the implementation of institutional controls to prevent human contact with ground water in the area. Tri-annual sampling was initiated in June 1996 following approval by the State of Maine Department of Environmental Protection and U.S. Environmental Protection Agency (EPA) Region 1. It is anticipated that monitoring will continue until a review is completed which suggests that no further action, or an alternate remedial action (i.e., other than natural attenuation), should be implemented.

This report provides the results for the March 1997 monitoring/sampling event (Monitoring Event 8). A discussion of temporal trends and other observations based on data collected during tri-annual monitoring will be presented in the Annual Report for 1997.

1.2 MEASUREMENT OF WATER LEVEL ELEVATIONS

Water level measurements were obtained during Monitoring Event 8 on 7 March 1997 at the 13 ground-water monitoring wells specified in the LTMP and indicated in Table 1. Although not required by the LTMP, bimonthly water table elevation data were collected from Site 9 wells on 7 January 1997. These additional bimonthly water table elevation data were collected to identify seasonal fluctuations in water table elevations, and to identify any significant variations in the direction of ground-water flow over time. The locations of the wells are provided on Figure 2. The gauging procedures are detailed in the final report for Monitoring Event 4 (EA 1996) and the LTMP (ABB-ES 1994b).

1.3 GROUND-WATER MONITORING, SAMPLING, AND ANALYSIS

The ground-water sampling program was performed on 23 March 1997 in accordance with the general methodologies established in the LTMP (ABB-ES 1994b). Previously installed dedicated Grundfos Redi-Flo2 stainless steel and Teflon® submersible pumping systems were utilized for sample collection. Table 1 provides a summary of the wells included in the ground-water sampling program. Figure 3 provides a schematic of a typical dedicated submersible pump installed in a monitoring well. Ground-water sampling procedures are detailed in the final report for Monitoring Event 4 (EA 1996).

Ground-water samples were collected from the 9 wells specified in the LTMP during the March 1997 sampling event using the low flow sampling technique. Water quality indicator parameters, including pH, conductivity, temperature, dissolved oxygen, and turbidity, were measured during well purging. Although not required by the LTMP, oxidation-reduction potential (Eh) was recorded for informational purposes and measured during well purging and sampling. Stabilization of water quality indicator parameters was achieved when measurements agreed to within approximately 10 percent on three successive readings. Wells were purged at the lowest flow rate obtainable with the submersible pump (i.e., 0.2 L/minute). The lowest flow rates attainable at MW-NASB-071 and MW-NASB-080 were 2.4 L/minute and 0.4 L/minute, respectively. Eight of 9 monitoring wells reached equilibrium of the water quality indicator parameters prior to sampling, although turbidity stabilized in excess of 10 nephelometric turbidity units (NTU) at 2 of these wells: MW-NASB-071 (14 NTU) and MW-NASB-079 (146 NTU). Turbidity and conductivity did not stabilize to within approximately 10 percent on three successive readings at well MW-NASB-081.

Ground-water samples were collected for analysis of Target Compound List (TCL) volatile organic compounds (VOC) plus a library search of 15 tentatively identified compounds by U.S. Environmental Protection Agency (EPA) Method 8260. Five of 9 ground-water samples were also collected for analysis of Target Analyte List (TAL) elements, including metals by inductively coupled plasma (EPA Method 6010) and graphite furnace (EPA Method 7000 series), and mercury by cold vapor atomic adsorption (EPA Method 7470). Chromium was analyzed by inductively coupled plasma (EPA Method 6010) rather than graphite furnace atomic adsorption (EPA Method 7191) as specified in LTMP (ABB-ES 1994b); the precision and accuracy objectives and reporting requirements identified in the LTMP were met.

1.4 SURFACE WATER, SEDIMENT, AND LEACHATE STATION SEEP/SEDIMENT SAMPLING AND ANALYSIS

The surface water, sediment, and leachate station seep/sediment sampling program was performed on 21 March 1997, in accordance with the general methodologies established in the LTMP (ABB-ES 1994b). Surface water and sediment samples were collected from 3 of 6 stations located along the streams south of Site 9 (SW/SED-010 through SW/SED-012). Three tri-annual surface water and sediment sampling locations (SW/SED 915, SW/SED 919, and

SW/SED 922) were flooded following the completion on the two surface impoundments at Site 9; thus no samples were collected. Leachate station seep and sediment samples were collected at the foot of the drain located south of Site 9 (Figure 2). Table 1 provides a summary of the stations included in the surface water, sediment, and leachate station seep/sediment sampling program.

Surface water, sediment, and seep samples were collected for analysis of TCL VOC plus a library search of 15 tentatively identified compounds by EPA Method 8260. Leachate station seep and sediment samples were also collected for analysis of TAL elements by trace inductively coupled plasma (EPA Method 6010) and graphite furnace (EPA Method 7000 series), and mercury by cold vapor atomic adsorption (EPA Method 7470). Chromium was analyzed by inductively coupled plasma (EPA Method 6010) rather than graphite furnace atomic adsorption (EPA Method 7191) as specified in LTMP (ABB-ES 1994b); the precision and accuracy objectives and reporting requirements identified in the LTMP were met. The three sediment samples (Table 1) were further analyzed for the presence of TCL semivolatile organic compounds (SVOC) plus a library search of 20 tentatively identified compounds by EPA Method 8270.

1.5 VISUAL INSPECTION

Site inspection activities were completed on 19 March 1997 by a civil engineer in accordance with the LTMP (ABB-ES 1995). The site inspection indicated no evidence of stressed vegetation in the vicinity of the site. No physical evidence of tampering of site wells was evident, with the exception of monitoring wells MW-NASB-073 and MW-NASB-078. Monitoring well MW-NASB-073 appears to have been damaged during the demolition of a building adjacent to the well, and the steel casing needs to be replaced. Monitoring well MW-NASB-078 is located in the vicinity of the surface water impoundment at Site 9. The bentonite seal appears to have been disturbed during construction and the ground surface has been graded below the original level. Construction materials are still present and it appears that restoration of surfaces was not complete at the time of the inspection. All wells, with the exception of MW-NASB-073, were observed to be capped, locked, and in good condition. All wells were labeled. Repairs to wells MW-NASB-073 and MW-NASB-078 are scheduled to be completed prior to the next scheduled sampling event.

1.6 QUALITY ASSURANCE/QUALITY CONTROL

A rigorous quality assurance/quality control program is required by the LTMP to meet the data quality objectives of the aqueous and sediment sampling program, as outlined in the Quality Assurance Project Plan associated with the LTMP (ABB-ES 1995). The data obtained during the March 1997 sampling event were determined to be of sufficient quality to be used to evaluate the long-term effectiveness of the remedial action (i.e., natural attenuation). Field monitoring and sampling forms are presented in Appendix A.

1.7 ANALYTICAL DATA QUALITY REVIEW

As required by the LTMP (ABB-ES 1995), a review of laboratory data was performed on selected quality control parameters to evaluate precision, accuracy, and completeness and data quality objective requirements. A summary of the analytical data quality review is provided in Appendix B. With the exceptions discussed in Appendix B, the data represented in this report were found to meet specified acceptance criteria and, therefore, represent data in general compliance with the Quality Assurance Project Plan contained in the LTMP (ABB-ES 1994b). Method detection limits for soil and aqueous media are included in Appendix B. Note that these values are presented rather than practical quantitation limits used in previous monitoring event reports.

2. MONITORING EVENT RESULTS

2.1 WATER LEVEL GAUGING

Ground-water potentiometric elevations measured on 7 January 1997 (bimonthly data) and 7 March 1997 (Monitoring Event 8 data) are provided in Table 2. The Field Record of Well Gauging forms completed during the well gauging events are provided in Appendix A. All 13 wells were gauged during January and March 1997 in accordance with the procedures outlined in the LTMP (ABB-ES 1995). Three site wells (MW-NASB-071, MW-NASB-077, and MW-NASB-080) were found frozen during the March 1997 gauging event; thus water level gauging data could not be collected.

Based on the water table elevation data, shallow overburden ground-water flow reflects land surface topography of the site area. The predominant direction of ground-water flow beneath the site is to the south, although significant variations occur in the vicinity of the streams located south of Neptune Drive. Figures 4 and 5 provide the interpreted ground-water flow directions for the subject site based on the 7 January and 7 March 1997 well gauging data, respectively.

The hydraulic gradient across the subject site is characterized as shallow at 1.0 percent (0.010 ft per foot) as measured parallel to the direction of ground-water flow between MW-NASB-081 and MW-NASB-076 during the 7 March 1997 monitoring event.

2.2 WATER QUALITY INDICATOR PARAMETERS

Water quality indicator parameters were measured during the collection of ground-water, surface water, and leachate seep samples according to the methods specified in the LTMP (ABB-ES 1995). The results of water quality indicator parameter monitoring at the time samples were collected are summarized in Tables 3 and 4 for ground-water samples and surface water and leachate seep samples, respectively. The completed Field Record of Well Gauging, Purging, and Sampling forms and Field Record of Surface Water and Sediment Sampling forms are provided in Appendix A. Due to the low flow observed at leachate station LT-901, an elevated turbidity was observed. Wells were purged at the lowest flow rate obtainable with the submersible pump (i.e., 0.2 L/minute). The lowest flow rates attainable at MW-NASB-071 and MW-NASB-080 were 2.4 L/minute and 0.4 L/minute, respectively. Eight of 9 monitoring wells reached equilibrium of the water quality indicator parameters prior to sampling, although turbidity stabilized in excess of 10 nephelometric turbidity units (NTU) at 2 of these wells: MW-NASB-071 (14 NTU) and MW-NASB-079 (146 NTU). Turbidity and conductivity did not stabilize to within approximately 10 percent on three successive readings at well MW-NASB-081. Water quality indicator parameter measurements were consistent with prior sampling events, with the exception of the elevated turbidity measurements at wells MW-NASB-079 and MW-NASB-081, and a lower than normal pH in SW-010.

2.3 GROUND WATER

Table 5 provides a summary of the VOC and TAL elements reported in ground-water samples collected at Site 9. Appendix C provides a summary of the tentatively identified VOC reported in ground water during this sampling event. Appendix D contains the Form I summary tables for the analyses performed. Data generated as a result of the March 1997 sampling event indicate that 5 VOC were detected at reportable concentrations in the ground-water samples. VOC were reported in 5 of 9 wells sampled. Fourteen TAL elements were reported in ground-water samples. TAL elements were reported in the 5 wells sampled for these analytes.

Notable results of ground-water sampling during Monitoring Event 8 include:

- Vinyl chloride, a constituent of concern, was reported in 4 of 9 wells at concentrations in excess of the corresponding State Maximum Exposure Guideline (0.15 μg/L) and/or Federal Maximum Contaminant Level (2 μg/L).

- Manganese was reported above the corresponding State Maximum Exposure Guideline of 200 μg/L in 1 well (MW-NASB-071, 262 μg/L).

- Thallium was reported above the corresponding State Maximum Exposure Guideline of 0.4 μg/L in 1 well (MW-NASB-080 duplicate, 1.2 μg/L).

2.4 SURFACE WATER

Table 6 provides a summary of the VOC detected in surface water samples collected at Site 9. A summary of tentatively identified VOC reported in surface water samples is provided in Appendix C. Appendix D contains the Form I summary tables for the analyses performed. Sample locations are provided on Figure 2.

Data generated as a result of the March 1997 sampling event indicate that 6 VOC were detected at reportable concentrations. VOC were detected in all 3 surface water samples.

2.5 SEDIMENT

Table 7 provides a summary of the constituents detected in sediment samples collected at Site 9. Appendix C provides a summary of the tentatively identified compounds reported in sediment samples. Appendix D contains the Form I summary tables for the analyses performed. Sample locations are provided on Figure 2.

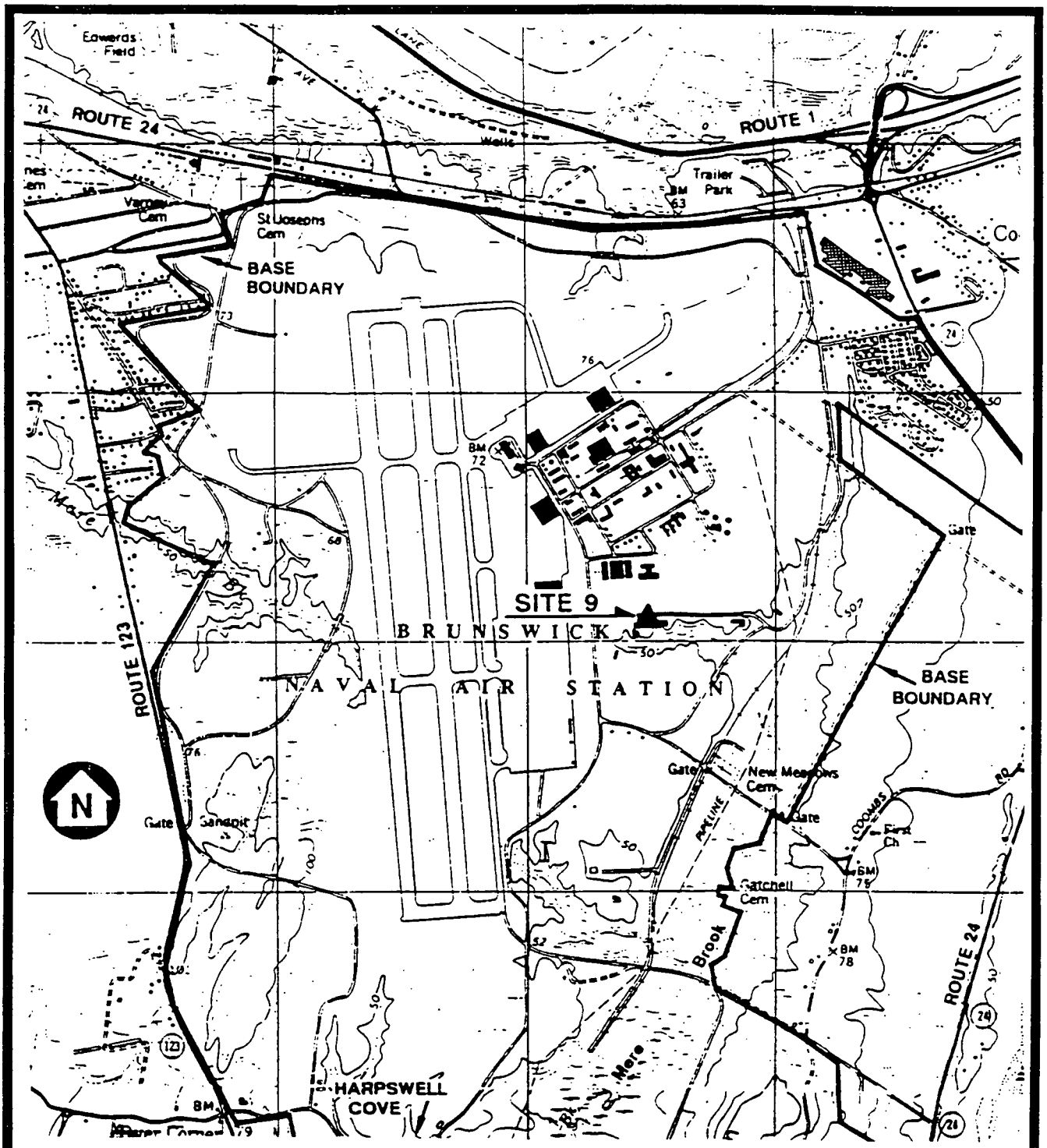
There were no reported concentrations of VOC 2 of 3 sediment samples. Two VOC were reported in the sediment sample collected at SED-010: total 1,2-dichloroethene (17 μg/kg) and trichloroethene (4J μg/kg). A total of 20 SVOC were reported in the 3 sediment samples

sampled for this parameter. A majority of the SVOC reported in the samples were polycyclic aromatic hydrocarbons. Concentrations of polycyclic aromatic hydrocarbons in the 3 sediment samples ranged from 11,690 μg/kg (SED-012) to 165,500 μg/kg (SED-011).

2.6 LEACHATE STATION SEEP AND SEDIMENT

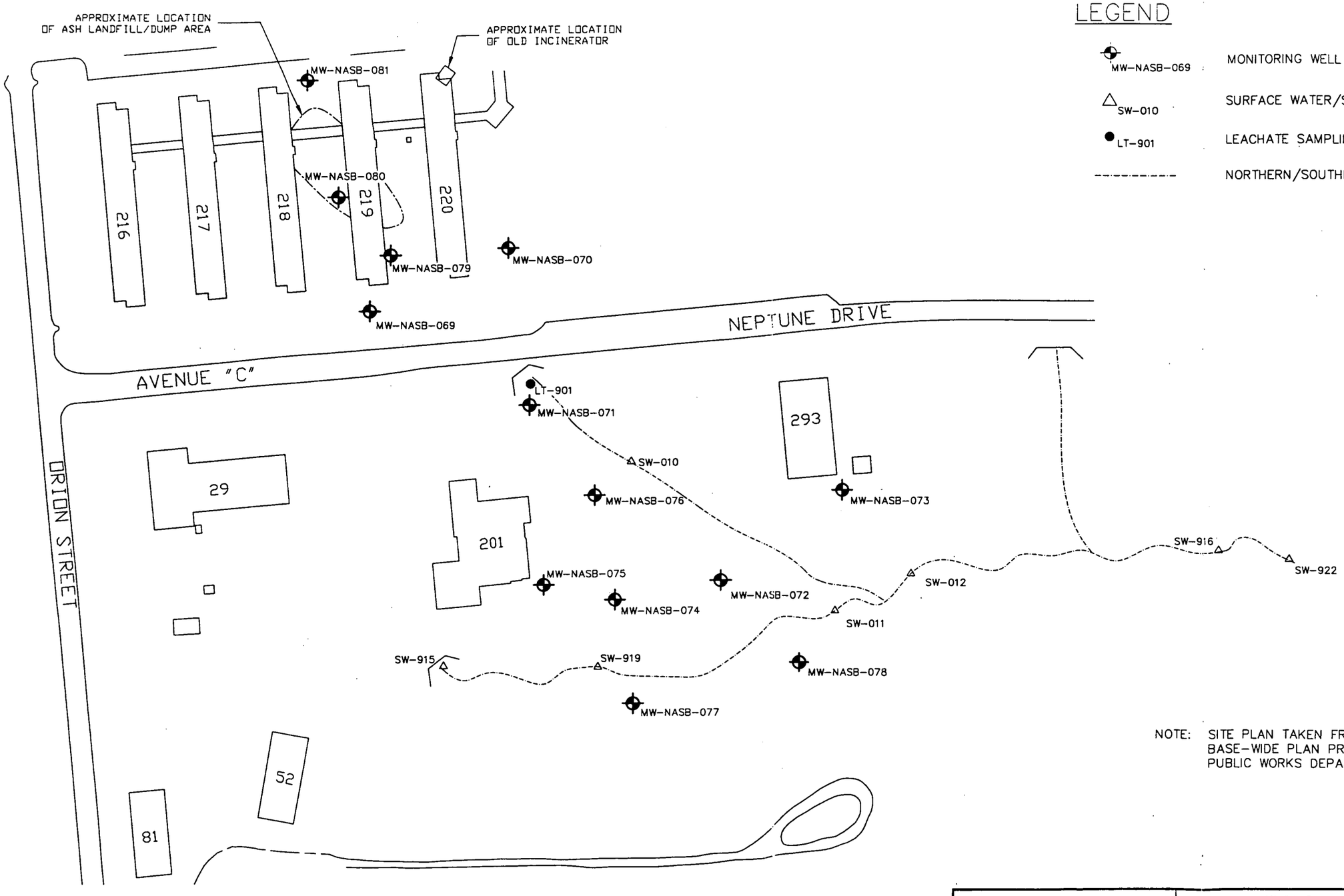
Table 8 provides a summary of the constituents detected in leachate station LT-901 seep and sediment samples collected at Site 9. No tentatively identified VOC were reported in the leachate station seep and sediment samples. Appendix D contains the Form I summary tables for the analyses performed on leachate samples. Sample locations are provided on Figure 2.

One VOC (acetone) was reported at a low concentration in the sediment sample, although this compound is a suspected field artifact since it was not reported in the associated duplicate sample. Excluding acetone, no other VOC were reported in the aqueous or sediment samples collected at LT-901. A total of 10 target analytes were reported in leachate seep sample. A total of 19 target analytes were reported in the leachate station seep sample.



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

Figure 1. Site location map for Site 9, Naval Air Station, Brunswick, Maine.



LEGEND

MW-NASB-069	MONITORING WELL
SW-010	SURFACE WATER/SEDIMENT SAMPLING LOCATION
LT-901	LEACHATE SAMPLING STATION
----------	NORTHERN/SOUTHERN UNNAMED STREAM PROFILE

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

120' 0 120'

APPROXIMATE SCALE

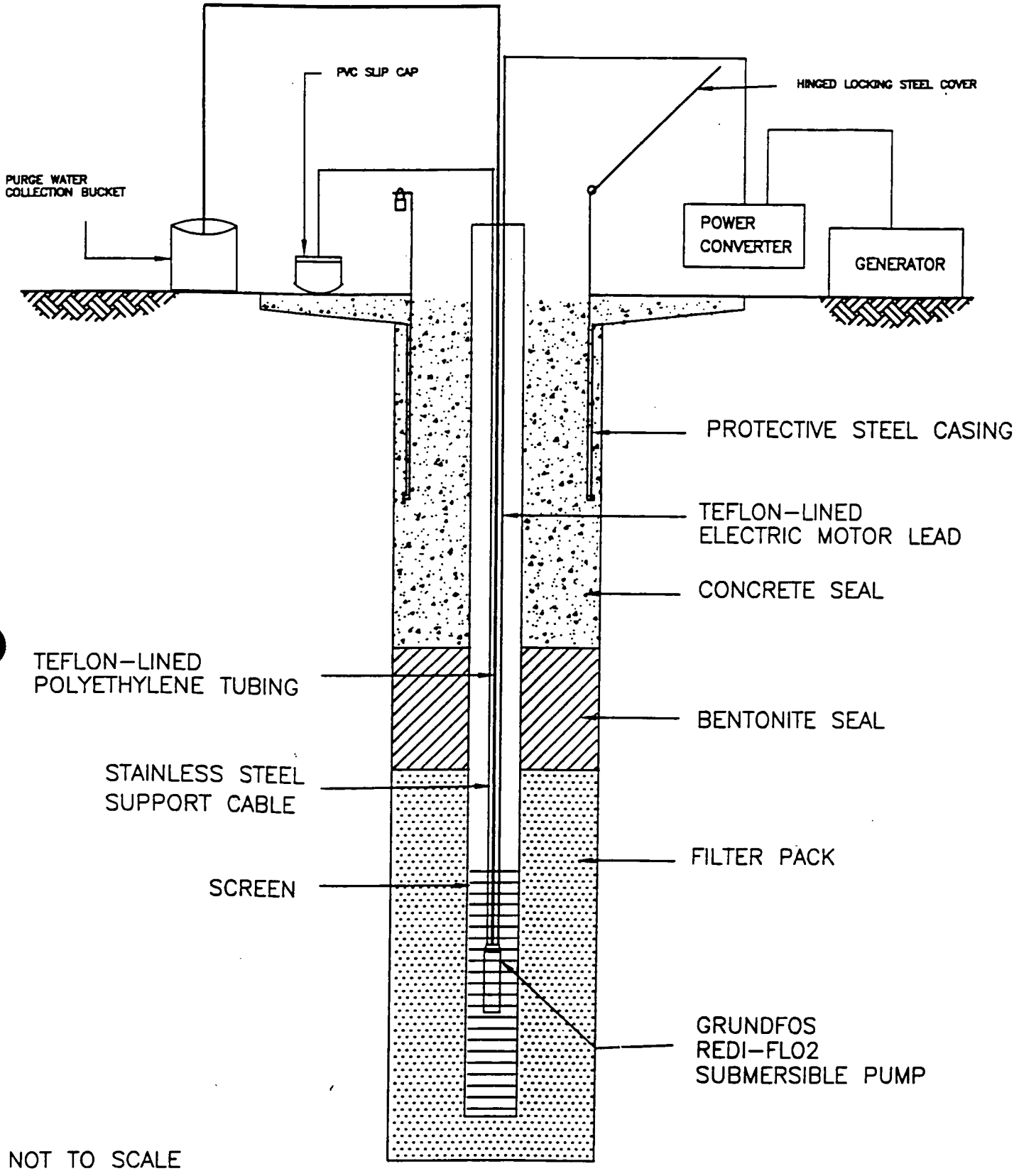
DWG. FILE No. F:\CAD\29600\47\S9EV2

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.
MSB		SY	MSB	1"=120'	8 DEC 95	29600.47	S9EV2



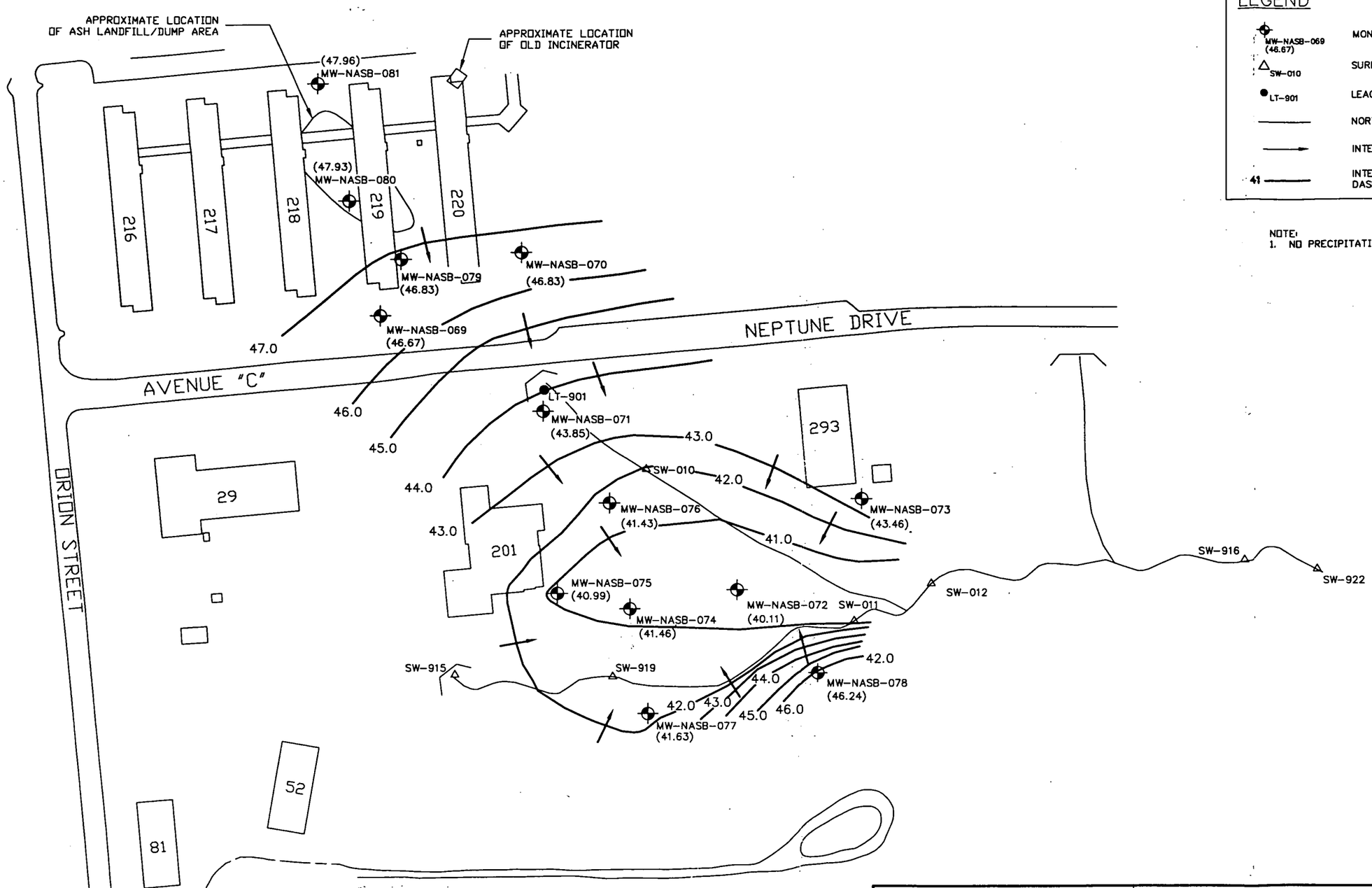
DWG. FILE No. F:\CAD\AGWELL

EA ENGINEERING, SCIENCE, AND TECHNOLOGY

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

FIGURE 3

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



LEGEND

MW-NASB-069 (46.67)	MONITORING WELL (WATER TABLE ELEVATION, FT MSL)
SW-010	SURFACE WATER/SEDIMENT SAMPLING LOCATION
LT-901	LEACHATE SAMPLING STATION
	NORTHERN/SOUTHERN UNNAMED STREAM PROFILE
	INTERPRETED DIRECTION OF GROUND-WATER FLOW
41	INTERPRETED POTENTIOMETRIC SURFACE DASHED WHERE INFERRED (CONTOUR INTERVAL = 1.0 FT)

NOTE:
1. NO PRECIPITATION WAS NOTED DURING GAUGING EVENT.

120' 0 120'
APPROXIMATE SCALE

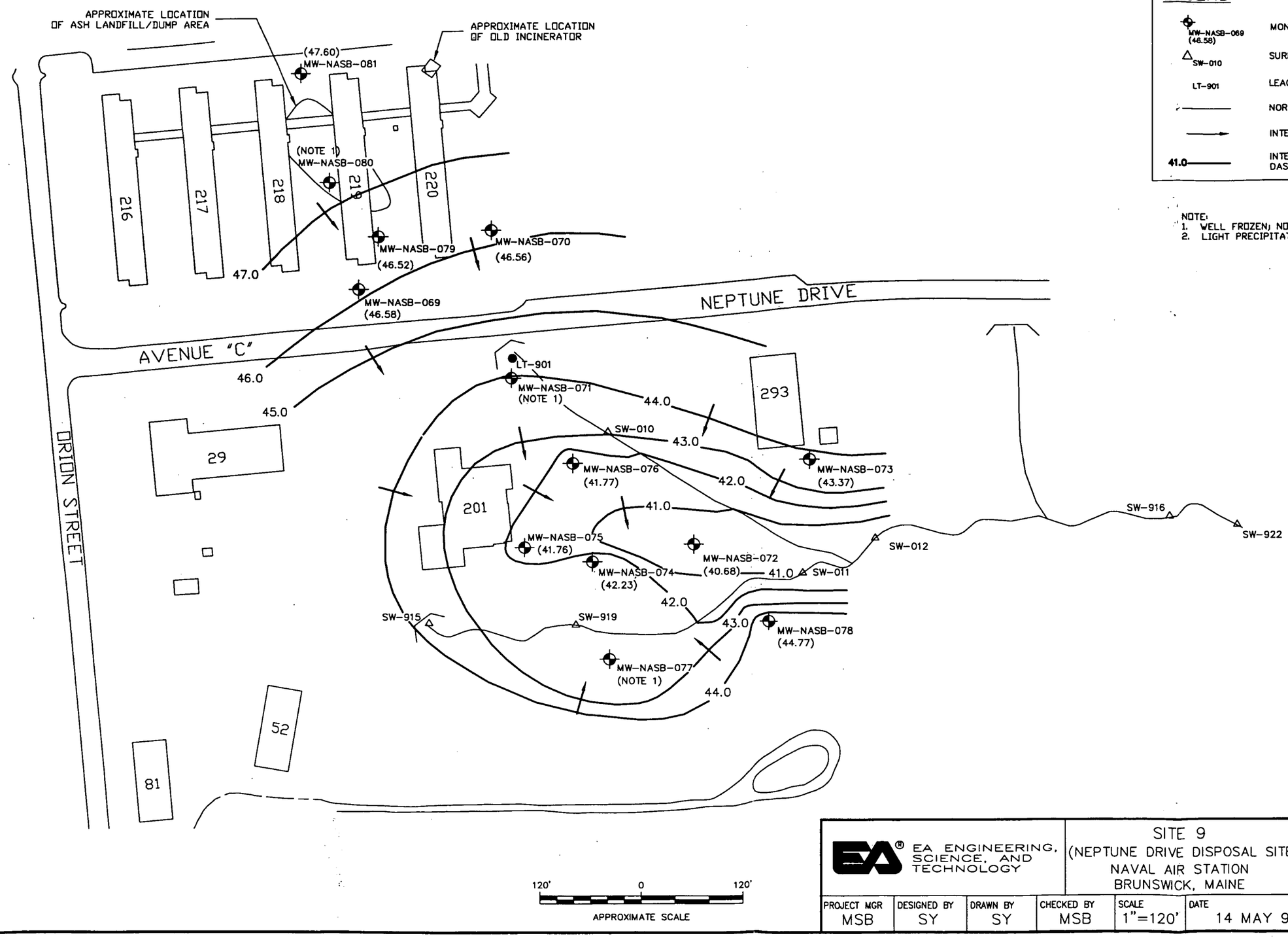
DWG. FILE No. F:\CAD\29600\47\S9EV8JA

EA ENGINEERING, SCIENCE, AND TECHNOLOGY

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

FIGURE 4
INTERPRETED POTENTIOMETRIC SURFACE ELEVATIONS, 7 JANUARY 1997 WELL GAUGING DATA

PROJECT MGR	DESIGNED BY	DRAWN BY	CHECKED BY	SCALE	DATE	PROJECT NO	FILE No.
MSB	SY	SY	MSB	1"=120'	20 MAY 1997	29600.47	S9EV8JA



LEGEND

MW-NASB-069 (46.58)	MONITORING WELL (WATER TABLE ELEVATION, FT MSL)
SW-010	SURFACE WATER/SEDIMENT SAMPLING LOCATION
LT-901	LEACHATE SAMPLING STATION
	NORTHERN/SOUTHERN UNNAMED STREAM PROFILE
	INTERPRETED DIRECTION OF GROUND-WATER FLOW
41.0	INTERPRETED POTENTIOMETRIC SURFACE DASHED WHERE INFERRED (CONTOUR INTERVAL = 1.0 FT)

NOTE:
1. WELL FROZEN; NO DATA AVAILABLE
2. LIGHT PRECIPITATION (<0.01 IN.) OBSERVED DURING GAUGING EVENT

DWG. FILE No. F:\CAD\29600\47\S9EV8MAR

EA ENGINEERING, SCIENCE, AND TECHNOLOGY

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

FIGURE 5
INTERPRETED POTENTIOMETRIC SURFACE ELEVATIONS, 7 MARCH 1997 WELL GAUGING DATA

PROJECT MGR	DESIGNED BY	DRAWN BY	CHECKED BY	SCALE	DATE	PROJECT NO	FILE No.
MSB	SY	SY	MSB	1"=120'	14 MAY 97	29600.47	S9EV8MAR

TABLE 1 SUMMARY OF LONG-TERM MONITORING PROGRAM AT SITE 9, NAVAL AIR STATION, BRUNSWICK, MAINE

Well Designation	Previous Well Designation	Monitoring Frequency	Sample Parameters				Event 8	
			TCL VOC	TCL SVOC	TAL Elements	Field Parameters[a]	Gauged	Sampled
Monitoring Wells								
MW-NASB-069	MW-901	Tri-Annual	X			X	X	X
MW-NASB-070	MW-902	Tri-Annual				X[b]	X[b]	
MW-NASB-071	MW-903	Tri-Annual	X		X	X	X	X
MW-NASB-072	MW-904	Tri-Annual	X		X	X	X	X
MW-NASB-073	MW-905	Tri-Annual				X[b]	X[b]	
MW-NASB-074	MW-906	Tri-Annual	X			X	X	X
MW-NASB-075	MW-907	Tri-Annual	X			X	X	X
MW-NASB-076	MW-908	Tri-Annual	X			X	X	X
MW-NASB-077	MW-909	Annual	X			X	X[b]	
MW-NASB-078	MW-910	Annual	X			X	X[b]	
MW-NASB-079	MW-914	Tri-Annual	X		X	X	X	X
MW-NASB-080	MW-915	Tri-Annual	X		X	X	X	X
MW-NASB-081	MW-916	Tri-Annual	X		X	X	X	X

(a) Determination of field parameters in accordance with EPA/600/4-79/020 including: pH (Method 150.1), temperature (Method 170.1), specific conductance (Method 180.1), and dissolved oxygen (Method 360.1). Includes water level and Eh measurement.
(b) Indicates water level measurement only.

NOTE: TCL = Target Compound List.
VOC = Volatile organic compounds.
SVOC = Semivolatile organic compounds.
TAL = Target Analyte List.

Sample Type/Location	Monitoring Frequency	Sample Parameters				Event 8	
		TCL VOC	TCL SVOC	TAL Elements	Field Parameters[a]	Gauged	Sampled
Leachate Station[c]							
LT-901 (SEEP)	Tri-Annual	X		X	X	X	X
LT-901 (SED)	Tri-Annual	X		X			X
Surface Water							
SW-010	Tri-Annual	X			X	X	X
SW-011	Tri-Annual	X			X	X	X
SW-012	Tri-Annual	X			X	X	X
SW-915	Tri-Annual	X			X		
SW-916	Annual	X			X		
SW-919	Tri-Annual	X			X		
SW-922	Tri-Annual	X			X		
Sediment							
SED-010	Tri-Annual	X	X				X
SED-011	Tri-Annual	X	X				X
SED-012	Tri-Annual	X	X				X
SED-915	Tri-Annual	X	X				
SED-916	Annual	X					
SED-919	Tri-Annual	X	X				
SED-922	Tri-Annual	X					

(c) Sampling will occur if sufficient flow is available.

TABLE 2 MONITORING WELL GAUGING SUMMARY
SITE 9, NAVAL AIR STATION, BRUNSWICK, MAINE

Well Designation	Previous Well Designation	Well Riser Elevation (ft MSL)	Depth to Well Bottom (ft below top of PVC well riser)	Bi-Monthly Gauging Data (7 January 1997)		Event 8 Gauging Data (7 March 1997)	
				Depth to Water (ft below top of PVC well riser)	Water Table Elevation (ft MSL)	Depth to Water (ft below top of PVC well riser)	Water Table Elevation (ft MSL)
MW-NASB-069	MW-901	57.35	42.42	10.68	46.67	10.77	46.58
MW-NASB-070	MW-902	58.26	27.32	11.43	46.83	11.70	46.56
MW-NASB-071	MW-903	46.25	21.54	2.40	43.85	Frozen	---
MW-NASB-072	MW-904	49.81	14.63	9.70	40.11	9.13	40.68
MW-NASB-073	MW-905	51.71	32.12	8.25	43.46	8.34	43.37
MW-NASB-074	MW-906	51.68	27.12	10.22	41.46	9.45	42.23
MW-NASB-075	MW-907	54.91	21.22	13.92	40.99	13.15	41.76
MW-NASB-076	MW-908	52.79	19.94	11.36	41.43	11.02	41.77
MW-NASB-077	MW-909	58.89	37.29	17.26	41.63	Frozen	---
MW-NASB-078	MW-910	53.74	14.93	7.50	46.24	8.97	44.77
MW-NASB-079	MW-914	58.15	18.92	11.32	46.83	11.63	46.52
MW-NASB-080	MW-915	58.51	19.04	10.58	47.93	Frozen	---
MW-NASB-081	MW-916	58.22	18.85	10.26	47.96	10.62	47.60

NOTE: MSL = Mean sea level; PVC = Polyvinyl chloride. Dashes (---) indicate water table elevation could not be determined due to a frozen pump in well MW-NASB-071 and frozen well cap in wells MW-NASB-077 and MW-NASB-080.

TABLE 3 SUMMARY OF WATER QUALITY INDICATOR PARAMETERS MEASURED IN GROUND-WATER SAMPLES COLLECTED ON 23 MARCH 1997 AT SITE 9, NAVAL AIR STATION, BRUNSWICK, MAINE

Well Designation	Previous Well Designation	pH	Temperature (°C)	Conductivity (μmhos/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	Eh (mV)
Monitoring Wells							
MW-NASB-069	MW-901	5.94	13.9	222	0.41	8	123
MW-NASB-071	MW-903	5.70	13.5	254	0.22	14	49
MW-NASB-072	MW-904	6.20	12.3	218	2.98	2	164
MW-NASB-074	MW-906	6.29	14.7	349	0.13	1	107
MW-NASB-075	MW-907	5.94	17.6	277	0.84	2	165
MW-NASB-076	MW-908	5.72	18.6	267	0.40	2	194
MW-NASB-079	MW-914	6.67	17.3	222	0.36	146	-131
MW-NASB-080	MW-915	6.88	22.2	394	0.34	8	69
MW-NASB-081	MW-916	6.46	16.8	301	4.52	39	161

NOTE: NTU = Nephelometric turbidity unit.

TABLE 4 SUMMARY OF WATER QUALITY INDICATOR PARAMETERS MEASURED IN SURFACE WATER AND LEACHATE SEEP SAMPLES COLLECTED ON 21 MARCH 1997 AT SITE 9, NAVAL AIR STATION, BRUNSWICK, MAINE

Sample Designation	pH	Temperature (°C)	Conductivity (μmhos/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	Eh (mV)
Surface Water						
SW- 010	6.35	5.9	232	10.27	2	172
SW-011	6.97	5.2	146	12.70	27	175
SW-012	7.80	5.6	178	12.18	18	188
Leachate Seep						
LT-901	6.50	6.2	215	10.72	58	93

NOTE: NTU = Nephelometric turbidity unit.

TABLE 5 SUMMARY OF ANALYTICAL RESULTS FOR GROUND-WATER SAMPLES COLLECTED ON 23 MARCH 1997 AT SITE 9, NAVAL AIR STATION, BRUNSWICK, MAINE

Compound/Analyte	MW-NASB-069 MW-901	MW-NASB-071 MW-903	MW-NASB-071 DUP MW-903	MW-NASB-072 MW-904	MW-NASB-074 MW-906	MW-NASB-075 MW-907	MEG[a]	MCL[b]
VOLATILE ORGANIC COMPOUNDS BY EPA METHOD 8260 (μg/L)								
Total 1,2-Dichloroethene	(<1U)	(<1U)	(<1U)	(<1U)	2	1	70	70
Vinyl chloride	(<1U)	(<1U)	(<1U)	**2**	(<1U)	**8**	0.15	2
1,1-Dichloroethane	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	0.9J	70	---
Ethylbenzene	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	700	700
Total xylenes	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	600	10,000
Trichloroethene	(<1U)	(<1U)	(<1U)	(<1U)	1J	(<1U)	5	5
1,4-Dichlorobenzene	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	3	5
Toluene	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	1,400	1,000
TARGET ANALYTE LIST ELEMENTS BY EPA SW-846 6000/7000 SERIES METHODS (μg/L)								
Aluminum	NR	(<25.0U)	35.0B*	380B*	NR	NR	1,430	50-200[c]
Arsenic	NR	(<2.0U)	(<2.0U)	(<2.0U)	NR	NR	---	50
Barium	NR	(<22.0U)	(<22.0U)	(<22.0U)	NR	NR	1,500	2,000
Cadmium	NR	(<1.0U)	(<1.0U)	1.5	NR	NR	5	5
Calcium	NR	10,800	11,000	13,700	NR	NR	---	---
Chromium	NR	(<6.0U)	(<6.0U)	(<6.0U)	NR	NR	100	100
Iron	NR	7,190	6,320	758	NR	NR	---	300[c]
Lead	NR	1.1B*	(<1.0U)	(<1.0U)	NR	NR	---	15[d]
Magnesium	NR	4,800	4,910	3,960	NR	NR	---	---
Manganese	NR	**347**	**349**	107	NR	NR	200	50[c]
Mercury	NR	0.22B*	(<0.20U)	0.21B*	NR	NR	2	2
Potassium	NR	1,980B*	2,060B*	1,030B*	NR	NR	---	---
Silver	NR	(<4.0U)	(<4.0U)	(<4.0U)	NR	NR	50	100[c]
Sodium	NR	33,700	33,700	5,840	NR	NR	---	---
Thallium	NR	(<1.0U)	(<1.0U)	(<1.0U)	NR	NR	0.4	2
Zinc	NR	(<12.0U)	(<12.0U)	(<12.0U)	NR	NR	---	5,000[c]

(a) MEG (Maximum Exposure Guideline) obtained from State of Maine Department of Human Services Maximum Exposure Guidelines, memorandum dated 23 October 1992. Dashes (---) indicate no MEG applicable.
(b) MCL (Maximum Contaminant Level) obtained from 40 CFR Parts 141 and 142 (U.S. EPA 1994). Dashes (---) indicate no MCL applicable.
(c) Secondary MCL, based on taste, odor, or color.
(d) Action level.

NOTE: U = Not detected. Sample quantitation limits are shown as (<____U); J = Estimated concentration below detection limit; NR = Analysis not required.
B* = Analyte concentration is between the Instrument Detection Limit and the Contract Required Detection Limit.
Only those analytes detected in at least one of the samples and the constituents of concern listed in the Long-Term Monitoring Plan (ABB-ES 1995) are shown on this table.
Concentrations in bold denote exceedance of MEG or MCL (primary levels).

Compound/Analyte	MW-NASB-076 MW-908	MW-NASB-079 MW-914	MW-NASB-080 MW-915	MW-NASB-080 DUP MW-915 DUP	MW-NASB-081 MW-916	QT-006	MEG[a]	MCL[b]
VOLATILE ORGANIC COMPOUNDS BY EPA METHOD 8260 (μg/L)								
Total 1,2-Dichloroethene	2	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	70	70
Vinyl chloride	**15**	(<1U)	**3**	**2**	(<1U)	(<1U)	0.15	2
1,1-Dichloroethane	0.7J	(<1U)	1	1	(<1U)	(<1U)	70	---
Ethylbenzene	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	700	700
Total xylenes	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	600	10,000
Trichloroethene	0.4J	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	5	5
1,4-Dichlorobenzene	0.7J	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	3	5
Toluene	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	1,400	1,000
TARGET ANALYTE LIST ELEMENTS BY EPA SW-846 6000/7000 SERIES METHODS (μg/L)								
Aluminum	NR	46.8B*	170B*	239B*	119B*	NR	1,430	50-200[c]
Arsenic	NR	(<2.0U)	(<2.0U)	3.6B*	(<2.0U)	NR	---	50
Barium	NR	227	666	659	30.2	NR	1,500	2,000
Cadmium	NR	(<1.0U)	(<1.0U)	(<1.0U)	(<1.0U)	NR	5	5
Calcium	NR	28,300	52,600	53,500	37,000	NR	---	---
Chromium	NR	(<6.0U)	(<6.0U)	(<6.0U)	19.4B*	NR	100	100
Iron	NR	19,500	1,180	1,300	1,060	NR	---	300[c]
Lead	NR	(<1.0U)	(<1.0U)	1.6B*	(<1.0U)	NR	---	15[d]
Magnesium	NR	1,990	3,460	3,460	2,470	NR	---	---
Manganese	NR	113	165	142	8.1B*	NR	200	50[c]
Mercury	NR	(<0.20U)	(<0.20U)	(<0.20U)	(<0.20U)	NR	2	2
Potassium	NR	2,680B*	4,950B*	4,990B*	5,950	NR	---	---
Silver	NR	(<4.0U)	(<4.0U)	(<4.0U)	(<4.0U)	NR	50	10[c]
Sodium	NR	3,670	14,700	14,800	27,300	NR	---	---
Thallium	NR	(<1.0U)	(<1.0U)	**1.2**	(<1.0U)	NR	0.4	2
Zinc	NR	(<12.0U)	(<12.0U)	(<12.0U)	(<12.0U)	NR	---	5,000[c]

NOTE: QT = Trip blank.

TABLE 6 SUMMARY OF ANALYTICAL RESULTS FOR SURFACE WATER SAMPLES COLLECTED ON 21 MARCH 1997 AT SITE 9, NAVAL AIR STATION, BRUNSWICK, MAINE

Compound	SW-010	SW-011	SW-012	QT-005	QS-003	QD-001
VOLATILE ORGANIC COMPOUNDS BY EPA METHOD 8260 (μg/L)						
Methylene chloride	(<1U)	(<1U)	(<1U)	(<1U)	2	1
Tetrachloroethene	(<1U)	1	0.9J	(<1U)	(<1U)	(<1U)
Carbon disulfide	2	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)
Acetone	(<5U)	19	19	(<5U)	(<5U)	(<5U)
Ethylbenzene	(<1U)	0.5J	0.4J	(<1U)	(<1U)	(<1U)
Toluene	(<1U)	3	2	(<1U)	(<1U)	(<1U)
Total xylenes	(<1U)	5	3	(<1U)	(<1U)	(<1U)

NOTE: QT = Trip blank.
QS = Equipment rinsate blank.
QD = Source water blank. QD-001 was analyzed under a separate sample delivery group shipped on 12 March 1997.
U = Not detected. Sample quantitation limits are shown as (<____U).
J = Estimated concentration below the detection limit.
Only those compounds detected in at least one of the samples, and the constituents of concern listed in the Long-Term Monitoring Plan (ABB-ES 1995), are shown on this table.

TABLE 7 SUMMARY OF ANALYTICAL RESULTS FOR SEDIMENT SAMPLES COLLECTED ON 21 MARCH 1997 AT SITE 9, NAVAL AIR STATION, BRUNSWICK, MAINE

Compound	SED-010	SED-011	SED-011 DUP	SED-012	QT-005 (μg/L)	QS-004 (μg/L)	QD-001 (μg/L)
VOLATILE ORGANIC COMPOUNDS BY EPA METHOD 8260 (μg/kg)							
Total 1,2-Dichloroethene	17	(<6U)	(<7U)	(<8U)	(<1U)	(<1U)	(<1U)
Trichloroethene	4J	(<6U)	(<7U)	(<8U)	(<1U)	(<1U)	(<1U)
Methylene chloride	(<7U)	(<6U)	(<7U)	(<8U)	(<1U)	1	1
Compound	SED-010[a]	SED-011[a]	SED-011 DUP[a]	SED-012	QT-005 (μg/L)	QS-004 (μg/L)	QD-001 (μg/L)
SEMIVOLATILE ORGANIC COMPOUNDS BY EPA METHOD 8270 (μg/kg)							
Naphthalene	190J	(<410U)	(<430U)	(<520U)	NR	(<10U)	(<5U)
2-Methylnaphthalene	96J	(<410U)	(<430U)	(<520U)	NR	(<10U)	(<4U)
Acenaphthene	(<460U)	130J	1,100	(<520U)	NR	(<10U)	(<3U)
Dibenzofuran	180J	(<410U)	400J	(<520U)	NR	(<10U)	(<2U)
Fluorene	300J	340J	1,700	150J	NR	(<10U)	(<2U)
Phenanthrene	2,200	4,100	22,000D	1,100	NR	(<10U)	(<2U)
Anthracene	410J	1,500	3,200	230J	NR	(<10U)	(<2U)
Carbazole	260J	90J	920	180J	NR	(<10U)	(<2U)
Fluoranthene	1,600	31,000D	36,000D	1,700	NR	(<10U)	(<2U)
Pyrene	3,600	32,000D	39,000D	1,800	NR	(<10U)	(<1U)
Benzo(a)anthracene	1,100	15,000D	16,000D	810	NR	(<10U)	(<1U)
Chrysene	1,200	18,000D	16,000D	930	NR	(<10U)	(<2U)
Bis(2-ethylhexyl)phthalate	130J	3,300	3,600	130J	NR	(<10U)	(<7U)
Benzo(b)fluoranthene	1,600	27,000D	22,000D	1,600	NR	(<10U)	(<2U)
Benzo(k)fluoroethane	450J	5,300	4,900	490J	NR	(<10U)	(<2U)
Benzo(a)pyrene	1,200	16,000D	16,000D	1,100	NR	(<10U)	(<1U)
Indeno(1,2,3-c,d)pyrene	1,000	7,200D	10,000D	800	NR	(<10U)	(<1U)
Dibenzo(a,h)anthracene	250	1,800	1,700	200J	NR	(<10U)	(<2U)
Benzo(g,h,i)perylene	1,100	6,000D	10,000D	780	NR	(<10U)	(<1U)
Acenaphthylene	(<460U)	130J	420J	(<520U)	NR	(<10U)	(<2U)

(a) Reanalysis conducted on samples due to low surrogate recoveries.

NOTE:
QT = Trip blank. Samples associated with QT-005 were analyzed under a separate sample delivery group shipped the same day.
QS = Equipment rinsate blank. Samples associated with QS-004 were analyzed under a separate sample delivery group shipped the same day.
QD = Source water blank. Samples associated with QD-001 were analyzed under a separate sample delivery group shipped on 12 March 1997.
U = Not detected. Sample quantitation limits are shown as (<____U).
J = Estimated concentration below concentration limit.
D = This flag indicates an analysis at a secondary dilution factor.
NR = Analysis not required.
Only those compounds detected in at least one of the samples, and the constituents of concern listed in the Long-Term Monitoring Plan (ABB-ES 1995), are shown on this table.

TABLE 8 SUMMARY OF ANALYTICAL RESULTS FOR THE SEEP AND SEDIMENT SAMPLES COLLECTED ON 21 MARCH 1997 AT SITE 9, NAVAL AIR STATION, BRUNSWICK, MAINE

Analyte	LT-901 (SEEP) (μg/L)	LT-901 (SEEP) DUP (μg/L)	LT-901 (SED) (mg/kg)	LT-901 (SED) DUP (mg/kg)	QT-005 (μg/L)	QS-003 (SEEP) (μg/L)	QS-004 (SED) (μg/L)	QD-001 (μg/L)
VOLATILE ORGANIC COMPOUNDS BY EPA METHOD SW-8260								
Methylene chloride	(<1U)	(<1U)	(<11U)	(<8U)	(<1U)	2	1	1
Acetone	(<5U)	(<5U)	78	(<15U)	(<5U)	(<5U)	(<5U)	(<5U)

NOTE: QT = Trip blank.
QS = Equipment rinsate blank.
QD = Source water blank. Samples associated with QD-001 were analyzed under a separate sample delivery group shipped on 12 March 1997.
U = Not detected. Sample quantitation limits are shown as (<___U).
J = Estimated concentration below the detection limit.
Only those analytes detected in at least one of the samples, and the constituents of concern listed in the Long-Term Monitoring Plan (ABB-ES 1995), are shown on this table.

Analyte	LT-901 (SEEP) (μg/L)	LT-901 (SEEP) DUP (μg/L)	LT-901 (SED) (mg/kg)	LT-901 (SED) DUP (mg/kg)	QT-005 (μg/L)	QS-003 (SEEP) (μg/L)	QS-004 (SED) (μg/L)	QD-001 (μg/L)
TARGET ANALYTE LIST ELEMENTS BY EPA SERIES METHODS SW-846 6000/7000/9000 (μg/L)								
Aluminum	997	2,690	5,910	4,500	NR	(<25.0U)	(<25.0U)	(<25.0U)
Antimony	(<2.0U)	(<2.0U)	0.46B*	(<0.29U)	NR	(<2.0U)	(<2.0U)	(<2.0U)
Arsenic	(<2.0U)	4.2B*	2.8	4.0	NR	(<2.0U)	(<2.0U)	(<2.0U)
Barium	42.1B*	112B*	36.4B*	16.1B*	NR	(<22.0U)	(<22.0U)	(<22.0U)
Beryllium	(<1.0U)	(<1.0U)	0.25B*	(<0.15U)	NR	(<1.0U)	(<1.0U)	(<1.0U)
Cadmium	(<1.0U)	(<1.0U)	2.7	2.5	NR	(<1.0U)	(<1.0U)	(<1.0U)
Calcium	17,900	20,800	1,640	1,090	NR	188B*	208B*	102B*
Chromium	(<6.0U)	9.3B*	16.6	11.5	NR	(<6.0U)	(<6.0U)	(<6.0U)
Cobalt	(<11.0U)	(<11.0U)	3.1B*	3.2B*	NR	(<11.0U)	(<11.0U)	(<11.0U)
Copper	(<6.0U)	(<6.0U)	12.8	11.8	NR	(<6.0U)	(<6.0U)	(<6.0U)
Iron	36,600	139,000	10,500	9,430	NR	(<40.0U)	(<40.0U)	(<40.0U)
Lead	14.9	63.1	135	96.8	NR	1.1B*	(<1.0U)	(<1.0U)
Magnesium	2,360	3,180	2,460	2,030	NR	(<85.0U)	(<85.0U)	(<85.0U)
Manganese	235	354	85.7	82.8	NR	(<6.0U)	(<6.0U)	(<6.0U)
Mercury	(<0.20U)	(<0.20U)	(<0.25U)	(<0.17U)	NR	(<0.20U)	(<0.20U)	(<0.20U)
Nickel	(<15.0U)	(<15.0U)	10.9	9.1	NR	(<15.0U)	(<15.0U)	(<15.0U)
Potassium	2,250	2,680	1,160	581	NR	(<63.0U)	(<63.0U)	(<63.0U)
Selenium	(<1.0U)	1.2B*	(<0.22U)	0.17B*	NR	(<1.0U)	(<1.0U)	(<1.0U)
Silver	(<4.0U)	(<4.0U)	(<0.89U)	(<0.58U)	NR	(<4.0U)	(<4.0U)	(<3.0U)
Sodium	22,200	22,700	276	162	NR	468B*	739B*	560B*
Vanadium	(<8.0U)	14.8B*	19.6	16.5	NR	(<8.0U)	(<8.0U)	(<8.0U)
Zinc	31.7	76.3	61.9	62.9	NR	(<12.0U)	(<12.0U)	(<12.0U)

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

REFERENCES

ABB Environmental Services, Inc. (ABB-ES). 1994a. Interim Record of Decision for the Ground-Water Operable Unit at Site 9. September.

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

ABB-ES. 1995. Long-Term Monitoring Plan for Site 9: Neptune Drive Disposal Site, Naval Air Station, Brunswick, Maine. January.

EA Engineering, Science, and Technology. 1996. Final Report, Quarterly Monitoring Event 4 - November 1995, Site 9: Neptune Drive Disposal Site, Naval Air Station, Brunswick, Maine. February.

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

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

Appendix A

Field Monitoring and Sampling Forms

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

Appendix A.1

Field Record of Well Gauging Forms

EA ENGINEERING, SCIENCE, AND TECHNOLOGY, INC.

FIELD RECORD OF WELL GAUGING

Project Name: LTMP Bimonthly gauging January Site 9	Project No: 29600047	Date: 1/7/97
Weather/Temperature: cold, windy, 0°		
EA Personnel: BDA, SYC	Equipment: Slope indicator	

Well No.	Labeled/ Capped	Well Locked	VOCs Concentration (ppm) Air Ambient	VOCs Concentration (ppm) Well Mouth	Casing/Seal Condition	Protective Casing Elevation (ft)	PVC Casing Elevation (ft)	Depth to Water (ft)	Measured Well Depth (ft)	Water Table Elevation (ft)
MW NASB 069	Y Y	Yes	0.0	0.0	Good		57.35	10.68	42.42	46.67
MW NASB 070	Y Y	Yes	0.0	0.0	Good		58.26	11.43	27.32	46.83
MW NASB 071	Y Y	Yes	0.0	0.0	Good		46.25	2.40*	21.54	43.85
MW NASB 072	Y Y	Yes	0.0	0.0	Good		49.81	9.70	14.63	40.11
MW NASB 073	Y Y	Yes	0.0	0.0	Good		51.71	8.25	32.12	43.46
MW NASB 074	Y Y	Yes	0.0	0.0	Good		51.68	10.22	27.12	41.46
MW NASB 075	Y Y	Yes	0.0	0.0	Good		54.91	13.92	21.22	40.99
MW NASB 076	Y Y	Yes	0.0	0.0	Good		52.79	11.36	19.94	41.43
MW NASB 077	Y Y	Yes	0.0	0.0	Good		58.89	17.26	37.29	41.63
MW NASB 078	Y Y	Yes	0.0	0.0	Good		53.74	7.50**	14.93	46.24
MW NASB 079	Y Y	Yes	0.0	0.0	Good		58.15	11.32	18.92	46.83
MW NASB 080	Y Y	Yes	0.0	0.0	Good		58.51	10.58	19.04	47.93
MW NASB 081	Y Y	Yes	0.0	0.0	Good		58.22	10.26	18.85	47.96

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

* ice chunks in well
** area around well has been graded 2 ft below original grade

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EA ENGINEERING, SCIENCE, AND TECHNOLOGY, INC.

FIELD RECORD OF WELL GAUGING

Project Name: LTMP Event 8 Site 9	Project No: 29600.47.7301	Date: 3/7/97
Weather/Temperature: Sunny, 25°, windy		
EA Personnel: SYC, MDC	Equipment: TVA-1000, Slope-indicator	

Well No.	Labeled/ Capped	Well Locked	VOCs Concentration (ppm) Air Ambient	VOCs Concentration (ppm) Well Mouth	Casing/Seal Condition	Protective Casing Elevation (ft)	PVC Casing Elevation (ft)	Depth to Water (ft)	Measured Well Depth (ft)	Water Table Elevation (ft)
MW-NASB 069	Y Y	Yes	0.0	0.0	Good		57.35	10.77	42.42	46.58
MW-NASB 070	Y Y	Yes	0.0	0.0	Good		58.26	11.70	27.32	46.56
MW-NASB 071	Y Y	Yes	0.0	0.0	Good		46.25	pump frozen in well	21.54	—
MW-NASB 072	Y Y	Yes	0.0	0.0	Good		49.81	9.13	14.63	40.68
MW-NASB 073	Y N	No	0.0	0.0	Poor		51.71	8.34	32.12	43.37
MW-NASB 074	Y Y	Yes	0.0	0.0	Good		51.68	9.45	27.12	42.23
MW-NASB 075	Y Y	Yes	0.0	0.0	Good		54.91	13.15	21.22	41.76
MW-NASB 076	Y Y	Yes	0.0	0.0	Good		52.79	11.02	19.94	41.77
MW-NASB 077	Y Y	Yes	0.0	(2)	Good		58.89	well cap frozen	37.29	—
MW-NASB 078	Y Y	Yes	0.0	0.0	Good (1)		53.74	8.97	14.53	44.77
MW-NASB 079	Y Y	Yes	0.0	0.0	Good		58.15	11.63	18.92	46.52
MW-NASB 080	Y Y	Yes	0.0	(2)	Good		58.51	well cap frozen	19.04	—
MW-NASB 081	Y Y	Yes	0.0	0.0	Good		58.22	10.62	18.85	47.60

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

MW-NASB-073 was damaged during demolition of adjacent building.

(1) Grout seal is visible on outer steel casing. Ground surface was graded below orginal grade at time of installation.

(2) PVC well cap frozen to well casing unable to remove.

f:\wp\29600\47

Appendix A.2

Field Record of Well Gauging, Purging, and Sampling Forms

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: NAS Brunswick Site 9
WELL I.D.: MW-NASB-069
WELL CONDITION: good

PROJECT NUMBER: 29600 47.7301
WELL LOCK STATUS: good
WEATHER: clear, 70° NW wind

GAUGE DATE: 3/23/97
SOUNDING METHOD: slope indicator
STICK UP/DOWN (ft): 2.45

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

PURGE DATE: 3/23/97
PURGE METHOD: Low flow
AMBIENT AIR VOCs (ppm) Start: 0.0 End: 0.0

PURGE TIME: 1105
FIELD PERSONNEL: KI, BDH
WELL MOUTH VOCs (ppm): Start: 0.0 End: 0.0

WELL VOLUME

A. WELL DEPTH (ft): 42.42
B. DEPTH TO WATER (ft): 10.77
C. LIQUID DEPTH (ft) (A-B): 31.65

D. WELL VOLUME/FT (L): ~~.16~~ SC 0.605
E. WELL VOLUME (L) (C*D): 19.15
F. THREE WELL VOLUMES (L) (E*3): 57.45

Parameter	Beginning	1	2	3	4	5
Time (min)	1108	1113	1118	1123	1128	1133
Depth to Water (ft)	10.77	10.79	10.79	10.79	10.79	10.79
Purge Rate (L/min)	.2	.2	.2	.2	.2	.2
Volume Purged (L)	0.6	1.6	2.6	3.6	4.6	5.2
pH	4.71	5.54	5.86	4.59	5.80	5.92
Temperature (°C)	12.45	12.74	11.85	12.26	13.47	13.82
Conductivity (μmhos/cm)	222	222	220	218	218	223
Dissolved Oxygen (mg/L)	1.36	0.75	0.61	0.67	0.44	0.40
Turbidity (NTU)	13	18	10	7	8	9
Eh (mv)	205	169	141	155	131	130

TOTAL QUANTITY OF WATER REMOVED (L): 6.6

SAMPLERS: BH
SAMPLING DATE: 3/23/97
SAMPLE TYPE: grab
SAMPLE BOTTLE IDs: BN-03-SG1-MW005
SAMPLE PARAMETERS: VOC by 8260

SAMPLING TIME (START/END): 1140/1143
DECONTAMINATION FLUIDS USED: none
SAMPLE PRESERVATIVES: HCL

COMMENTS AND OBSERVATIONS:

EA Engineering, Science, and Technology

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

Site Name:	Site 9	Project No.: 29600.47	Date: 3/23/97
Well ID:	MW-NASB-009	Field Personnel:	KI BDH

Parameter	6	7	8	9	10	11
Time (min.)	1134					
Depth to Water (ft)	10.79					
Purge Rate (L/min)	.2					
Volume Purged (L)	5.8					
pH	5.94					
Temperature (°C)	13.93					
Conductivity (μmhos/cm)	222					
Dissolved Oxygen (mg/L)	0.41					
Turbidity (NTU)	8					
Eh (mv)	123					

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

COMMENTS AND OBSERVATIONS _____

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: NAS Brunswick Site 9
WELL I.D.: MW-NASB-07I
WELL CONDITION: good

PROJECT NUMBER: 29600.47.7301
WELL LOCK STATUS: good
WEATHER: cold, clear 15-

GAUGE DATE: 3/23/97
SOUNDING METHOD: slope in
STICK UP/DOWN (ft): 2.80

GAUGE TIME: ~~3/23~~ 1443
MEASUREMENT REF: TOC
WELL DIAMETER (in.): 2"

PURGE DATE: 3/23/97
PURGE METHOD: Low Flow
AMBIENT AIR VOCs (ppm) Start: 0.0 End: 0.0

PURGE TIME: 1445
FIELD PERSONNEL: KI, BDH
WELL MOUTH VOCs (ppm): Start: 0.0 End: 0.0

WELL VOLUME

A. WELL DEPTH (ft): 21.54
B. DEPTH TO WATER (ft): 2.15
C. LIQUID DEPTH (ft) (A-B): 19.39

D. WELL VOLUME/FT (L): SC ~~.16~~ 0.605
E. WELL VOLUME (L) (C*D): 11.73
F. THREE WELL VOLUMES (L) (E*3): 35.19

Parameter	Beginning	1	2	3	4	5
Time (min)	1447	1452	1457	1502	1507	1512
Depth to Water (ft)	2.95	2.95	2.95	3.00	3.00	3.00
Purge Rate (L/min)	2.4 *	2.4	2.4	2.4	2.4	2.4
Volume Purged (L)	4.8	16.8	28.8	40.8	52.8	64.8
pH	6.30	5.57	5.55	5.24	5.59	5.70
Temperature (°C)	11.76	13.18	13.37	13.41	13.43	13.45
Conductivity (μmhos/cm)	260	254	256	254	254	254
Dissolved Oxygen (mg/L)	3.10	0.25	0.17	0.37	0.27	0.22
Turbidity (NTU)	250	21	12	12	12	14
Eh (mv)	13	45	47	49	49	49

TOTAL QUANTITY OF WATER REMOVED (L): 84

SAMPLERS: KI, BDH
SAMPLING TIME (START/END): ~~1515~~ BK / 1520/1525
SAMPLING DATE: 3/23/97
DECONTAMINATION FLUIDS USED: None
SAMPLE TYPE: Grab
SAMPLE PRESERVATIVES: nitric acid, HCL
SAMPLE BOTTLE IDs: BN-08-S9-MW009 and BN-03-S9-MW XD2
SAMPLE PARAMETERS: VOC, TAL Elements
COMMENTS AND OBSERVATIONS: *control box at lowest setting

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: STG 9
WELL I.D.: MW NASB-07R
WELL CONDITION: GOOD

PROJECT NUMBER: 29600.47.7301
WELL LOCK STATUS: LOCKED
WEATHER: CLEAR, 25°F, WINDY

GAUGE DATE: ~~8/3~~ 3/23/97
SOUNDING METHOD: ~~[illegible]~~ WLI
STICK UP/DOWN (ft): 2.25

GAUGE TIME: 8:35
MEASUREMENT REF: TOC
WELL DIAMETER (in.): 2" PVC

PURGE DATE: 3/23/97
PURGE METHOD: LOW FLOW
AMBIENT AIR VOCs (ppm) Start: 0 End: 0

PURGE TIME: 8:45
FIELD PERSONNEL: KI
WELL MOUTH VOCs (ppm): Start: 0 End: 0

WELL VOLUME

A. WELL DEPTH (ft): 14.63
B. DEPTH TO WATER (ft): 9.12
C. LIQUID DEPTH (ft) (A-B): 5.51

D. WELL VOLUME/FT (L): 0.605
E. WELL VOLUME (L) (C*D): 3.33
F. THREE WELL VOLUMES (L) (E*3): 9.99

Parameter	Beginning	1	2	3	4	5
Time (min)	8:45	8:50	8:55	9:00	9:05	9:10
Depth to Water (ft)	9.12	9.18	9.20	9.21	9.20	9.21
Purge Rate (L/min)	0.2	0.2	0.2	0.2	0.2	0.2
Volume Purged (L)	0	1.0	2.0	3.0	4.0	5.0
pH	6.43	6.15	6.24	6.24	6.22	6.20
Temperature (°C)	6.7	7.0	10.4	11.6	12.1	12.3
Conductivity (μmhos/cm)	~~0.066~~	~~0.042~~	~~0.032~~	~~0.224~~	~~0.228~~	~~0.218~~
Dissolved Oxygen (mg/L)	3.75	3.85	2.87	2.85	2.94	2.98
Turbidity (NTU)	243	124	22	7	5	2
Eh (mv)	140	147	156	162	163	164

TOTAL QUANTITY OF WATER REMOVED (L): ~~8.4~~ 9.4

SAMPLERS: KI
SAMPLING TIME (START/END): 9:15 / 9:32
SAMPLING DATE: 3/23/97
DECONTAMINATION FLUIDS USED: DI
SAMPLE TYPE: GRAB
SAMPLE PRESERVATIVES: HCL, HNO3
SAMPLE BOTTLE IDs: BN-08-59-001 MS/MSD, TRIP BLANK 9:15 BN-08-59-QT006
SAMPLE PARAMETERS: VOC'S, TAL ELEMENTS
COMMENTS AND OBSERVATIONS:

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: SITE 5
WELL I.D.: MW-NASB-074 ~~MW-506-074~~
WELL CONDITION: GOOD

PROJECT NUMBER: 29600.47.7901
WELL LOCK STATUS: LOCKED
WEATHER: CLEAR, 25°F, WINDY

GAUGE DATE: 3/23/97
SOUNDING METHOD: W.L.I
STICK UP/DOWN (ft): 1.90

GAUGE TIME: 9:15R
MEASUREMENT REF: T.O.C.
WELL DIAMETER (in.): 2"

PURGE DATE: 3/23/97
PURGE METHOD: LOW FLOW
AMBIENT AIR VOCs (ppm) Start: 0 End: 0

PURGE TIME: 9:55
FIELD PERSONNEL: KT
WELL MOUTH VOCs (ppm): Start: 0 End: 0

WELL VOLUME

A. WELL DEPTH (ft): 27.12
B. DEPTH TO WATER (ft): 9.48
C. LIQUID DEPTH (ft) (A-B): 17.64
D. WELL VOLUME/FT (L): 0.605
E. WELL VOLUME (L) (C*D): 10.67
F. THREE WELL VOLUMES (L) (E*3): 32.01

Parameter	Beginning	1	2	3	4	5
Time (min)	9:55	10:00	10:05	10:10	10:15	10:20
Depth to Water (ft)	9.48	9.65	9.68	9.68	9.67	9.67
Purge Rate (L/min)	0.2	0.2	0.2	0.2	0.2	0.2
Volume Purged (L)	0	1.0	2.0	3.0	4.0	5.0
pH	6.80	6.41	6.36	6.39	6.32	6.35
Temperature (°C)	7.9	11.2	13.4	14.1	13.9	14.3
Conductivity (μmhos/cm)	~~0~~.274	~~0~~.262	~~0~~.242	~~0~~.206	~~0~~.210	~~0~~.200
Dissolved Oxygen (mg/L)	2.11	0.34	0.23	0.42	0.22	0.28
Turbidity (NTU)	341	189	113	107	16	56
Eh (mv)	193	172	148	139	129	124

TOTAL QUANTITY OF WATER REMOVED (L): 10

SAMPLERS: KT
SAMPLING TIME (START/END): 10:42/10:45
SAMPLING DATE: 3/23/97
DECONTAMINATION FLUIDS USED: DI.
SAMPLE TYPE: GRAB
SAMPLE PRESERVATIVES: HCl, ~~HNO3~~
SAMPLE BOTTLE IDs: BN-08-59-004
SAMPLE PARAMETERS: VOC'S.

COMMENTS AND OBSERVATIONS: INITIAL TURBID ORANGE-RUST COLORED WATER CLEARED UP IMMEDIATELY

EA Engineering, Science, and Technology

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

Site Name: SITE 5	Project No.: 206.00147	Date: 3/23/97
Well ID: MW-NASB-074	Field Personnel: KT	

Parameter	6	7	8	9	10	11
Time (min.)	10:25	10:30	10:35	10:40		
Depth to Water (ft)	9.68	9.68	9.67	9.67		
Purge Rate (L/min)	0.2	0.2	0.2	0.2		
Volume Purged (L)	6.0	7.0	8.0	9.0		
pH	6.30	6.30	6.30	~~6.25~~ 6.25		
Temperature (°C)	14.0	14.2	14.5	14.7		
Conductivity (μmhos/cm)	0.235	0.410	0.388	0.345		
Dissolved Oxygen (mg/L)	0.17	0.14	0.14	0.13		
Turbidity (NTU)	16	4	1	1		
Eh (mv)	119	114	110	107		

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

COMMENTS AND OBSERVATIONS

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: NAS Brunswick Site 7
WELL I.D.: MW-NASB-075
WELL CONDITION: good

PROJECT NUMBER: 29600.47.7301
WELL LOCK STATUS: good
WEATHER: cold, sun, breeze

GAUGE DATE: 3/23/97
SOUNDING METHOD: slope indicator
STICK UP/DOWN (ft): 2.00

GAUGE TIME: 0936
MEASUREMENT REF: TOC
WELL DIAMETER (in.): 2"

PURGE DATE: 3/23/97
PURGE METHOD: Low flow
AMBIENT AIR VOCs (ppm) Start: 0.0 End: 0.0

PURGE TIME: 0940
FIELD PERSONNEL: KI, BDH
WELL MOUTH VOCs (ppm): Start: 0.0 End: 0.0

WELL VOLUME

A. WELL DEPTH (ft): 21.22
B. DEPTH TO WATER (ft): 13.21
C. LIQUID DEPTH (ft) (A-B): 8.01

D. WELL VOLUME/FT (L): SC ~~.16~~ 0.605
E. WELL VOLUME (L) (C*D): 4.85
F. THREE WELL VOLUMES (L) (E*3): 14.55

Parameter	Beginning	1	2	3	4	5
Time (min)	0944	0949	0954	0959	1004	1009
Depth to Water (ft)	13.23	13.28	13.28	13.25	13.25	13.25
Purge Rate (L/min)	.2	.2	.2	.2	.1	.1
Volume Purged (L)	0.8	1.8	2.8	3.8	4.3	4.8
pH	5.22 BH	5.79	5.93	4.92	4.88	5.77
Temperature (°C)	~~10.55~~ 10.55	11.13	13.29	14.67	16.29	17.11
Conductivity (μmhos/cm)	~~10~~ 239	233	248	252	256	266
Dissolved Oxygen (mg/L)	1.27	0.61	0.59	0.96	1.06	0.83
Turbidity (NTU)	3	3	2	2	2	2
Eh (mv)	232	203	183	189	196	176

TOTAL QUANTITY OF WATER REMOVED (L): 6.6

SAMPLERS: BDH
SAMPLING DATE: 3/23/97
SAMPLE TYPE: grab
SAMPLE BOTTLE IDs: BN-08-59-MW003
SAMPLE PARAMETERS: VOC by 8260

SAMPLING TIME (START/END): ~~0923~~ 1023 BH / ~~0925~~ 1025 BH
DECONTAMINATION FLUIDS USED: none
SAMPLE PRESERVATIVES: HCL

COMMENTS AND OBSERVATIONS:

EA Engineering, Science, and Technology

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

Site Name: NAS Brunswick Site 9	Project No.: 24600.47	Date: 3/23/97
Well ID: MW-NASE-075	Field Personnel: KI BH	

Parameter	6	7	8	9	10	11
Time (min.)	1012	1015				
Depth to Water (ft)	13.25	13.25				
Purge Rate (L/min)	.1	.1				
Volume Purged (L)	5.3	5.8				
pH	5.90	5.94				
Temperature (°C)	17.52	17.61				
Conductivity (μmhos/cm)	267	277				
Dissolved Oxygen (mg/L)	0.93	0.84				
Turbidity (NTU)	2	2				
Eh (mv)	168	165				

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 7301
WELL LOCK STATUS: good
WEATHER: Clear, sun, cold

GAUGE DATE: 3/23/97
SOUNDING METHOD: Elec indicator
STICK UP/DOWN (ft): 2.00

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

PURGE DATE: 3/23/97
PURGE METHOD: Low flow
AMBIENT AIR VOCs (ppm) Start: 0.0 End: 0.0

PURGE TIME: 0845
FIELD PERSONNEL: KI, BDA
WELL MOUTH VOCs (ppm): Start: 0.0 End: 0.0

WELL VOLUME

A. WELL DEPTH (ft): 19.94
B. DEPTH TO WATER (ft): 11.12
C. LIQUID DEPTH (ft) (A-B): 8.82

D. WELL VOLUME/FT (L): SC ~~.16~~ 0.605
E. WELL VOLUME (L) (C*D): 5.34
F. THREE WELL VOLUMES (L) (E*3): 16.02

Parameter	Beginning	1	2	3	4	5
Time (min)	0847	0852	0857	0902	0907	0910
Depth to Water (ft)	11.15	11.15	11.16	11.16	11.16	11.16
Purge Rate (L/min)	.2	.2	.2	.2	.2	.2
Volume Purged (L)	0.4	1.4	2.4	3.4	4.4	5.4
pH	4.56	5.58	4.34	4.35	5.55	5.65
Temperature (°C)	10.78	13.68	16.45	18.20	18.41	18.55
Conductivity (μmhos/cm)	282	245	293	271	282	277
Dissolved Oxygen (mg/L)	1.49	0.61	0.54	0.63	0.45	0.43
Turbidity (NTU)	4	2	2	2	2	2
Eh (mv)	303	249	223	256	222	218

TOTAL QUANTITY OF WATER REMOVED (L): 6.8

SAMPLERS: BDA
SAMPLING DATE: 3/23
SAMPLE TYPE: grab
SAMPLE BOTTLE IDs: BN-08-S9-MW002
SAMPLE PARAMETERS: VOC by 8260

SAMPLING TIME (START/END): 0917/0920
DECONTAMINATION FLUIDS USED: None
SAMPLE PRESERVATIVES: HCL

COMMENTS AND OBSERVATIONS:

EA Engineering, Science, and Technology

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

Site Name: Site 9	Project No.: 296047	Date: 3/23/97
Well ID: MW-NASB-076	Field Personnel: KI, RL	

Parameter	6	7	8	9	10	11
Time (min.)	0913					
Depth to Water (ft)	11.16					
Purge Rate (L/min)	.2					
Volume Purged (L)	6.0					
pH	5.72					
Temperature (°C)	18.57					
Conductivity (μmhos/cm)	267					
Dissolved Oxygen (mg/L)	0.40					
Turbidity (NTU)	2					
Eh (mv)	194					

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

COMMENTS AND OBSERVATIONS _____

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: NAS Brunswick Site 9
WELL I.D.: MW-NASB-079
WELL CONDITION: good

PROJECT NUMBER: 29600.47730/
WELL LOCK STATUS: good
WEATHER: clear, cold

GAUGE DATE: 3/23/97
SOUNDING METHOD: slope indicator
STICK UP/DOWN (ft): 2.20

GAUGE TIME: 1200
MEASUREMENT REF: TOC
WELL DIAMETER (in.): 2"

PURGE DATE: 3/23/97
PURGE METHOD: slow flow
AMBIENT AIR VOCs (ppm) Start: 0.0 End: 0.0

PURGE TIME: 1202
FIELD PERSONNEL: BDA KI
WELL MOUTH VOCs (ppm): Start: 0.0 End: 0.0

WELL VOLUME

A. WELL DEPTH (ft): 18.92
B. DEPTH TO WATER (ft): 11.58
C. LIQUID DEPTH (ft) (A-B): 7.34

D. WELL VOLUME/FT (L): ~~0.16~~ 0.605
E. WELL VOLUME (L) (C*D): 4.44
F. THREE WELL VOLUMES (L) (E*3): 13.32

Parameter	Beginning	1	2	3	4	5
Time (min)	1205	1210	1215	1220	1225	1230
Depth to Water (ft)	11.66	11.66	11.65	11.66	11.66	11.66
Purge Rate (L/min)	.2	.2	.2	.1	.1	.1
Volume Purged (L)	0.6	1.6	2.6	3.1	3.6	4.1
pH	4.69	6.07	6.61	5.14	6.53	6.70
Temperature (°C)	10.53	10.86	12.61	15.65	17.00	17.15
Conductivity (µmhos/cm)	190	195	211	209	236	232
Dissolved Oxygen (mg/L)	2.12	0.54	0.63	0.76	0.49	0.37
Turbidity (NTU)	254	122	~~101~~ 95	87	74	75
Eh (mv)	-30	-33	-102	-101	-123	-129

TOTAL QUANTITY OF WATER REMOVED (L): 6.1

SAMPLERS: BDA
SAMPLING TIME (START/END): 1240 / 1248
SAMPLING DATE: 3/23/97
DECONTAMINATION FLUIDS USED: none
SAMPLE TYPE: Grab
SAMPLE PRESERVATIVES: HCL, HNO3
SAMPLE BOTTLE IDs: BN-08-59-MW007
SAMPLE PARAMETERS: VOC by 8260, TAL elements

COMMENTS AND OBSERVATIONS:

EA Engineering, Science, and Technology

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

Site Name: NASBrunswick Site 9	Project No.: 2960047 Date: 3/23/97
Well ID: MW-NASB-079	Field Personnel: KI, BDH

Parameter	6	7	8	9	10	11
Time (min.)	1235					
Depth to Water (ft)	11.66					
Purge Rate (L/min)	.2					
Volume Purged (L)	5.1					
pH	6.67					
Temperature (°C)	17.25					
Conductivity (μmhos/cm)	222					
Dissolved Oxygen (mg/L)	0.36					
Turbidity (NTU)	146					
Eh (mv)	-131					

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-MASB-080
WELL CONDITION: GOOD

PROJECT NUMBER: 32600.47.7301
WELL LOCK STATUS: LOCKED
WEATHER: CLEAR, 25°F, WINDY

GAUGE DATE: 3/23/97
SOUNDING METHOD: W.L.I
STICK UP/DOWN (ft): 2.05

GAUGE TIME: 11:35
MEASUREMENT REF: T.O.C.
WELL DIAMETER (in.): 2"

PURGE DATE: 3/23/97
PURGE METHOD: LOW FLOW
AMBIENT AIR VOCs (ppm) Start: 0 End: 0

PURGE TIME: 11:40
FIELD PERSONNEL: KI
WELL MOUTH VOCs (ppm): Start: 0 End: 0

WELL VOLUME

A. WELL DEPTH (ft): 19.04
B. DEPTH TO WATER (ft): 10.91
C. LIQUID DEPTH (ft) (A-B): 8.13

D. WELL VOLUME/FT (L): 0.605
E. WELL VOLUME (L) (C*D): 4.92
F. THREE WELL VOLUMES (L) (E*3): 14.76

Parameter	Beginning	1	2	3	4	5
Time (min)	11:40	11:45	11:50	11:55	12:00	12:05
Depth to Water (ft)	10.91	11.05	10.98	11.01	11.04	11.07
Purge Rate (L/min)	0.4	~~2.0~~ 0.4	0.4	0.4	0.4	0.4
Volume Purged (L)	0	2.0	4.0	6.0	8.0	10.0
pH	6.72	6.82	6.86	6.87	6.88	6.92
Temperature (°C)	8.7	10.3	13.2	13.8	16.6	17.6
Conductivity (μmhos/cm)	0.384	0.366	0.320	0.406	0.396	0.378
Dissolved Oxygen (mg/L)	0.76	0.29	0.27	0.39	0.36	0.36
Turbidity (NTU)	18	11	6	7	6	4
Eh (mv)	143	131	108	95	94	86

TOTAL QUANTITY OF WATER REMOVED (L): 18

SAMPLERS: KI
SAMPLING TIME (START/END): 12:20/12:25
SAMPLING DATE: 3/23/97
DECONTAMINATION FLUIDS USED: DI
SAMPLE TYPE: GRAB, DUPLICATE
SAMPLE PRESERVATIVES: HCL, HNO_3
SAMPLE BOTTLE IDs: BN-08-59 to 06 DUPLICATE BN-08-59-MWX01
SAMPLE PARAMETERS: VOC'S, TAL METALS
COMMENTS AND OBSERVATIONS: INCREASED PUMP SPEED TO KEEP FLOW RATE STABLE.

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

Site Name: SMG 9	Project No.: 20600.47	Date: 9/23/97
Well ID: MW-MASB-080	Field Personnel: KF	

Parameter	6	7	8	9	10	11
Time (min.)	12:10	12:15	12:20			
Depth to Water (ft)	11.05	11.07	11.08			
Purge Rate (L/min)	0.4	0.4	0.4			
Volume Purged (L)	12	14	16			
pH	6.89	6.87	6.88			
Temperature (°C)	20.8	22.1	22.2			
Conductivity (μmhos/cm)	0.364	0.396	0.394			
Dissolved Oxygen (mg/L)	0.41	0.30	0.34			
Turbidity (NTU)	1	5	8			
Eh (mv)	80	73	69			

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 _____

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FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

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

PROJECT NUMBER: 20600.47.7701
WELL LOCK STATUS: LOCKED
WEATHER: CLEAR, 85°F, WINDY

GAUGE DATE: 3/23/97
SOUNDING METHOD: W.L.I.
STICK UP/DOWN (ft): 1.91

GAUGE TIME: 13:45
MEASUREMENT REF: T.O.C.
WELL DIAMETER (in.): 2"

PURGE DATE: 3/23/97
PURGE METHOD: LOW FLOW
AMBIENT AIR VOCs (ppm) Start: 0 End: 0

PURGE TIME: 13:50
FIELD PERSONNEL: KI, BA
WELL MOUTH VOCs (ppm): Start: 0 End: 0

WELL VOLUME

A. WELL DEPTH (ft): 18.85
B. DEPTH TO WATER (ft): 10.65
C. LIQUID DEPTH (ft) (A-B): 8.20

D. WELL VOLUME/FT (L): 0.605
E. WELL VOLUME (L) (C*D): 4.96
F. THREE WELL VOLUMES (L) (E*3): 14.88

Parameter	Beginning	1	2	3	4	5
Time (min)	13:50	13:55	14:00	14:05	14:10	14:15
Depth to Water (ft)	10.65	10.66	10.65	10.65	10.65	10.65
Purge Rate (L/min)	0.2	0.2	0.2	0.2	0.2	0.2
Volume Purged (L)	0	1.0	2.0	3.0	4.0	5.0
pH	5.25	5.59	6.25	6.42	6.46	6.46
Temperature (°C)	9.97	10.37	13.00	15.51	16.12	16.22
Conductivity (μmhos/cm)	259	263	278	300	300	296
Dissolved Oxygen (mg/L)	5.85	5.54	5.03	4.92	4.73	4.62
Turbidity (NTU)	51	52	19	9	5	4
Eh (mv)	~~83~~ 84	90	107	132	152	157

TOTAL QUANTITY OF WATER REMOVED (L): 9.6

SAMPLERS: KI, BA
SAMPLING TIME (START/END): 1430/14:38
SAMPLING DATE: 3/23/97
DECONTAMINATION FLUIDS USED: DI
SAMPLE TYPE: GRAB
SAMPLE PRESERVATIVES: HCL, HNO3
SAMPLE BOTTLE IDs: BN-08-59-MW008
SAMPLE PARAMETERS: VOC'S, TAL METALS

COMMENTS AND OBSERVATIONS:

EA Engineering, Science, and Technology

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

Site Name: SMTS9	Project No.: 25600.47	Date: 3/23/97
Well ID: MW-MASB-081	Field Personnel: KT, BA	

Parameter	6	7	8	9	10	11
Time (min.)	14:20	14:23	14:26			
Depth to Water (ft)	10.65	10.65	10.65			
Purge Rate (L/min)	0.2	0.2	0.2			
Volume Purged (L)	6.0	6.6	7.2			
pH	6.48	6.47	6.46			
Temperature (°C)	16.81	16.49	16.78			
Conductivity (μmhos/cm)	238	228	301			
Dissolved Oxygen (mg/L)	4.49	4.47	4.52			
Turbidity (NTU)	5	5	39			
Eh (mv)	164	165	161			

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 A.3

Field Record of Surface Water and Sediment Sampling Forms

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FIELD RECORD OF SURFACE WATER AND SEDIMENT SAMPLING

Site Name: NAS Brunswick - Site 9			Project Number: 29600.47.7301
Sample Location ID: SW/SD 010			Date: 3/21/97
Sampling Time: 0956/1000	Start: 0952	End: 1001	Sample Team Members: KI, BDA

SURFACE WATER INFORMATION

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

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

Water Quality Parameters
(✓) Temperature 5.88 °C
(✓) Conductivity 232 µmhs/cm
(✓) ph 6.35 units
(✓) Dissolved oxygen 10.27 mg/L
(✓) Turibidity 2 NTU
(✓) Eh 172 mv

Water Depth and Sample Location .5 (ft)

Depth of Sample from Top of Water .3 (ft)

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

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

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

Sample Location Sketch:
( ) Yes
( ) 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 organic swamp like
(✓) Color iron colorry light brown
( ) _____

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

SAMPLES COLLECTED

Check if Required at this Location	Matrix: Surface Water	Matrix: Sediment	Check if Preserved with Acid/Base	Volume Required	Check if Sample Collected	Sample Bottle IDs
✓	✓		✓	80ml	✓	BN-08-S9-SW003
✓		✓		8oz	✓	BN-08-S9-SD003

NOTES/SKETCH

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FIELD RECORD OF SURFACE WATER AND SEDIMENT SAMPLING

Site Name: NAS Brunswick - Site 9			Project Number: 24600.47.7301
Sample Location ID: SW/SD 011			Date: 3/21/97
Sampling Time: 0927/0934	Start: 0923	End: 0935	Sample Team Members: KI, BDA

SURFACE WATER INFORMATION

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

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

Water Quality Parameters
- (X) Temperature 5.24 °C
- (X) Conductivity 146 µmhs/cm
- (X) ph 6.97 units
- (X) Dissolved oxygen 12.70 mg/L
- (X) Turibidity 27 NTU
- (X) Eh 175 mv

Water Depth and Sample Location .05 (ft)

Depth of Sample from Top of Water .03 (ft)

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

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

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

Sample Location Sketch: ( ) Yes (X) No

Method Used: ( ) Winkler ( ) Probe

SEDIMENT INFORMATION

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

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

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

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

Sample Observations:
- (X) Odor slight organic
- (X) Color Lite Brown
- ( ) _____

Field QC Data: (X) Field Duplicate Collected, Duplicate ID BN-08-S9-SDXD 1; ( ) 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
✓	✓		✓	80ml	✓	BN-08-S9-SW002
✓		✓		16oz	✓	BN-08-S9-SD002

NOTES/SKETCH

EA Engineering, Science, and Technology

FIELD RECORD OF SURFACE WATER AND SEDIMENT SAMPLING

Site Name: NAS Brunswick - SITE 9			Project Number: 29600.47.7301
Sample Location ID: SW/SD012			Date: 3/21/97
Sampling Time: 0908/0915	Start: 0905	End: 0920	Sample Team Members: KI, BDA

SURFACE WATER INFORMATION

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

Water Depth and Sample Location .5 (ft)

Depth of Sample from Top of Water .3 (ft)

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

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

Water Quality Parameters
(✓) Temperature 5.62 °C
(✓) Conductivity 178 µmhs/cm
(✓) ph 7.8 units
(✓) Dissolved oxygen 12.18 mg/L
(✓) Turibidity 18 NTU
(✓) Eh 188 mv

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

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

Sample Location Sketch:
( ) Yes
(X) No

Method Used:
( ) Winkler
( ) Probe

SEDIMENT INFORMATION

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

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

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

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

Sample Observations:
(X) Odor Slight organic
(X) Color gray brown
( ) _____

Field QC Data: ( ) Field Duplicate Collected
Duplicate ID _____
(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
✓	✓		✓	80ml	✓	BN-08-S9-SW001
✓		✓		16oz	✓	BN-08-S9-SD001

NOTES/SKETCH

Stream pond like with slow flow.

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FIELD RECORD OF SURFACE WATER AND SEDIMENT SAMPLING

Site Name: ~~BN-0~~ NAS Brunswick - SITE 9			Project Number: 29600477301
Sample Location ID: S LT901			Date: 3/21/97
Sampling Time: 1025/1045	Start: 1015	End: 1050	Sample Team Members: KI, BDA

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 0.2 °C
- ( ) Conductivity 215 µmhs/cm
- ( ) ph 6.50 units
- ( ) Dissolved oxygen 10.72 mg/L
- ( ) Turibidity 58 NTU
- ( ) Eh 93 mv

Water Depth and Sample Location .3 (ft)

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

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

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

Field QC Data: (X) Field Duplicate Collected, Duplicate ID SWXD1; (X) MS/MSD

Sample Location Sketch:
- ( ) Yes
- (X) No

Method Used:
- ( ) Winkler
- ( ) Probe

SEDIMENT INFORMATION

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

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

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

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

Sample Observations:
- (X) Odor organic
- (X) Color Reddish, dark brown
- ( ) _____

Field QC Data: (X) Field Duplicate Collected, Duplicate ID BN-08-S9-SDXD2; (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
✓	✓		✓	3160ml	✓	BN-08-S9-LT001
✓		✓		240z	✓	BN-08-S9-LTSD1

NOTES/SKETCH

Appendix B

Analytical Data Quality Review

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APPENDIX B

ANALYTICAL DATA QUALITY REVIEW

B.1 INTRODUCTION

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

The sampling program consisted of 17 (of which 3 are field duplicates) aqueous samples (ground water, surface water, and leachate seep) and 6 (of which 2 are field duplicates) sediment samples collected from Site 9. The laboratory was provided with 2 aqueous and 2 sediment sample delivery groups (SDG) which included 5 aqueous quality control samples (2 trip blanks, 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. Known quantities of target compounds are spiked into the sample matrix for the MS/MSD and recoveries are used to measure potential bias due to matrix effects. SMC, which are structurally similar to the targeted analytes, are used to evaluate the recovery of the target compounds. These 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 reviewing the scheduled number of samples to the number of samples actually collected. Data completeness was quantified by reviewing the number of usable results to the number of analyses scheduled for analysis.

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

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

- **Method Detection Limit**—The minimum concentration of a substance that can be measured and reported with 99 percent confidence that the analyte concentration is greater than zero and is determined from analysis of a sample for a given matrix. The method detection limits for sediment and aqueous media are summarized in Tables B-1 and B-2, respectively.

- **Contract Required Detection Limit/Contract Required Quantitation Limit (CRDL/CRQL)**—Minimum level of detection acceptable under the contract Statement of Work in order to ensure regulatory compliance. This terminology is widely accepted in the industry as defined by the U.S. Environmental Protection Agency (EPA) contract laboratory protocols and is a standard list of inorganic analyte concentrations and organic compound concentrations on which laboratory flags and data validation qualifiers are based. These published concentrations are meant to be above the laboratory instrument detection limits 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 sections summarize the results of this program.

B.1.1 Field Sampling Program Quality Control

Field duplicate samples were collected for each matrix (i.e., sediment and water) and analyzed for the same parameters as the environmental samples to determine field sampling precision. The potential for cross-contamination of volatile organics during sample storage and shipment was monitored by trip blanks which were shipped with each sample cooler containing aqueous samples. The trip blanks were analyzed for volatile organic compounds (VOC) by EPA SW-846, Method 8260. To document the effectiveness of decontamination protocols, rinsate blank samples were taken by running de-ionized water through decontaminated sampling equipment and into the appropriate sample containers, and analyzing for the same parameters as the

samples. In addition, a source water blank was analyzed to assess the chemical quality of the water used in the decontamination sequence. The source water blank was also associated with samples collected at Sites 1 and 3 and Eastern Plume under a separate SDG.

B.1.2 Laboratory Analytical Quality Control Program

Surface water, sediment, and seep samples were collected for analysis of TCL VOC plus a library search of 15 tentatively identified compounds by EPA Method 8260. Leachate station seep and sediment samples were also collected for analysis of TAL elements by trace inductively coupled plasma (EPA Method 6010) and graphite furnace (EPA Method 7000 series), and mercury by cold vapor atomic adsorption (EPA Method 7470). Chromium was analyzed by inductively coupled plasma (EPA Method 6010) rather than graphite furnace atomic adsorption (EPA Method 7191) as specified in LTMP (ABB-ES 1994b); the precision and accuracy objectives and reporting requirements identified in the LTMP were met. The three sediment samples were further analyzed for the presence of TCL semivolatile organic compounds (SVOC) plus a library search of 20 tentatively identified compounds by EPA Method 8270. The quality control measures specified in the SW-846 methodology (MS/MSD, SMC, LCS, and laboratory duplicates), as well as those in the QAPP, were used by the laboratory to establish proper analytical quality control.

The range of results for the data quality objective parameters is discussed for each sample matrix below.

B.2 SAMPLE HOLDING TIMES

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. The holding times were met for all methods and sample matrixes.

B.3 PRECISION

B.3.1 Volatile Organic Compounds

Five VOC were used to quantify the MS/MSD RPD. The control limits identified in the QAPP were used to evaluate the data. The MS/MSD were performed on samples MW-NASB-072, SED-012, and LT-901. There were no surface water samples designated for MS/MSD analyses. The leachate seep and monitoring well sample MS/MSD RPD were within the established control limits, therefore, analytical precision was determined to be acceptable and the usability of the data is unaffected.

The sediment sample MS/MSD RPD were within the established control limits, therefore, analytical precision was determined to be acceptable and the usability of the data is unaffected.

B.3.2 Semivolatile Organic Compounds

Eleven SVOC were used to quantify the MS/MSD RPD. The aqueous and sediment control limits identified in the QAPP were the same as those reported by the laboratory. The sediment MS/MSD RPD were within the established control limits with the exception of pyrene (57 percent). The positive pyrene result in sample S9-SED-012 should be considered as an estimation of the true concentration based on the evidence of poor analytical precision (refer to Section B.4.2 for further clarification).

The aqueous MS/MSD RPD were within the laboratory established control limit, therefore, the analytical precision was determined to be acceptable and the usability of the data unaffected.

B.3.3 Target Analyte List Metals

All 23 analytes were used to quantify the laboratory duplicate RPD. There were no control limits identified in the QAPP for aqueous or sediment duplicate RPD for TAL metals, therefore, the laboratory control limits were used. The aqueous laboratory duplicate RPD were within the laboratory control limits, therefore, analytical precision was determined to be acceptable and the usability of the data is unaffected.

The sediment laboratory duplicate RPD were within the laboratory control limits, therefore, analytical precision was determined to be acceptable and the usability of the data is unaffected.

B.4 ACCURACY

B.4.1 Volatile Organic Compounds

Four SMC were used to measure the ability of the laboratory to purge the target compounds from the environmental samples. The control limits for the aqueous samples identified in the QAPP and reported by the laboratory were identical for the four SMC. The control limits for sediment samples identified in the QAPP and reported by the laboratory were different. The data reviewer used the QAPP limits for evaluation of the data.

The surface water, leachate seep, and monitoring well sample SMC recoveries were within established control limits. The aqueous results are usable as reported.

The sediment sample SMC recoveries were within the laboratory established control limits and the control limits identified in the QAPP. The sediment results are usable as reported.

Five VOC 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 leachate seep and monitoring well sample MS/MSD recoveries were within the established control limits. There were no MS/MSD analyses performed on the surface water

matrix. The aqueous results are usable as reported.

The sediment sample MS/MSD recoveries were within the established control limits. The sediment results are usable as reported.

Five VOC were used to quantify the LCS recoveries against laboratory established control limits (Appendix D). No LCS recovery limits are stated in the QAPP. All aqueous and sediment LCS recoveries were within laboratory established control limits, confirming the laboratory's purging efficiency.

B.4.2 Semivolatile Organic Compounds

Six SMC were used to measure the ability of the laboratory to extract the target compounds from the environmental samples. The sediment and aqueous sample SMC recoveries were within the established control limits with the exception of terphenyl (138 percent) in the re-analysis of Sample S9-SD002. The usability of the sample data was unaffected as the original sample analysis and its dilution are recommended for use.

Eleven compounds were used to quantify the MS/MSD recoveries. The control limits stated in the QAPP were the same as those reported by the laboratory. MS/MSD analyses were analyzed at the correct frequency for each matrix. The sediment MS/MSD recoveries were within the established control limits, with the exception of phenol (115 and 120 percent), n-nitroso-di-n-propylamine (147 and 155 percent), pyrene (154 and 321 percent), and 2,4-dinitrophenol (92 percent) which were above their respective upper control limits in the MS/MSD for Sample S9-SED-012. The high recoveries should not be considered to be significant with the exception of pyrene and n-nitroso-di-n-propylamine. However, the LCS recoveries of pyrene and n-nitroso-di-n-propylamine were acceptable, suggesting this to be a matrix related bias. Results for pyrene should be considered to be bias extremely high in Sample SED-012. N-nitroso-di-n-propylamine was not affected by the high recovery as it was not detected in the sample. All other analyte data are usable without qualification.

The aqueous MS/MSD was performed on the rinsate sample (since this was the only aqueous sample) and recoveries were within the established control limits, with the exception of 4-nitrophenol (106 and 107 percent), 2,4-dinitrophenol (103 and 101 percent), and pentachlorophenol (104 and 104 percent), however, because the laboratory limits are skewed (bias low), these recoveries should not be considered significant. The usability of the rinsate data is unaffected.

Eleven SVOC were used to quantify the LCS recoveries against laboratory established control limits. No LCS recovery limits are stated in the QAPP. The sediment and aqueous LCS recoveries were within laboratory established control limits, confirming the laboratory's ability to perform sample extraction.

B.4.3 Target Analyte List Metals

All 23 TAL analytes were used to quantify MS recoveries for the samples. All of the MS samples were analyzed at the correct frequency.

The ground-water and leachate station seep MS recoveries were within the established control limits of 75-125 percent. The data are usable as reported. There was no MS analysis performed for the surface water matrix.

The sediment MS recoveries for Sample LT-901 SED were within the established control limits, with the exceptions of antimony (65.3 percent) and magnesium (71.9 percent). The analytical results for antimony and magnesium in sediment Sample LT-901 SED should be considered biased low.

All 23 TAL analytes were used to quantify LCS recoveries against laboratory established control limits. There were no LCS recoveries presented in the QAPP. The monitoring well, leachate seep, and sediment LCS recoveries were within laboratory established control limits, indicating the laboratory's ability to perform sample digestion/distillation.

B.5 COMPLETENESS

All of the planned field samples were collected, and the corresponding trip, rinsate, and source water blanks were collected, resulting in a field completeness level of 100 percent. All samples were submitted to the laboratory within holding time and were analyzed successfully resulting in 100 percent analytical completeness. It should be noted that following completion of the surface water impoundments at Site 9, the requirements for surface water and sediment sampling at sample stations SW/SED-915, SW/SED-919, and SW/SED-922 were removed prior to mobilizing to the site to conduct Monitoring Event 8.

B.6 FIELD QUALITY CONTROL BLANKS

Field quality control rinsate blanks were evaluated for contamination that may have been introduced during the field sampling activities. Trip blanks are indicators for cross-contamination of VOC during sample shipment. In both cases where contamination exists, environmental samples should be reviewed for possible false-positives.

The field quality control blanks collected for this site included 2 trip blanks and 2 equipment rinsate blanks. Both trip blanks associated with Site 9 were free of contamination. Two rinsate blanks were collected during the surface water/sediment sampling program. Rinsate blanks were not required for the ground-water samples since dedicated pumping systems were used to collect the samples. Rinsate blank QS-003 was a dedicated bottle rinse sample associated with surface

water and seep sampling. Rinsate blank QS-004 was an equipment rinsate sample associated with the collection of sediment samples. One source water blank sample (QD-001) was collected under a separate SDG.

The analytical results for 2 rinsate blanks associated with the surface water and sediment samples (including samples collected at LT-901) collected at Site 9, and the associated source water blank, are shown in the following table:

Analyte	Units	QS-003	QS-004	QD-001
Methylene chloride	μg/L	2	1	1
Calcium	μg/L	188B*	208B*	102B*
Lead	μg/L	1.1B*	(<1.0U)	(<1.0U)
Sodium	μg/L	468B*	739B*	560B*

NOTE: B* = Analyte concentration is between the Instrument Detection Limit and the CRDL.
U = Not detected. Sample quantitation limits are shown as (<____U).

Methylene chloride was identified in both rinsate blanks at very low concentrations (1 and 2 μg/L). Since methylene chloride was not detected in either the surface water or sediment samples, the sample data were unaffected. The appearance of methylene chloride (1 μg/L) in the source water blank indicates that methylene chloride was a contaminant of the rinse water. At such a low concentration, methylene chloride did not interfere with the decontamination process. The usability of the surface water and sediment sample data is not affected.

The concentrations reported for calcium, lead, and sodium are not significantly high and do not indicate that there was a decontamination problem related to the surface water or sediment sampling events. The usability of the surface water and sediment sample data is not affected.

B.7 DUPLICATE FIELD SAMPLES

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

The following tables show the duplicate ground-water samples and their results which are associated with SDG S9MW001:

Analyte	Units	MW-NASB-071	MW-NASB-071 DUP	RPD %	Difference
Aluminum	µg/L	(<25.0U)	35.0B*	NA	22.5
Calcium	µg/L	10,800	11,000	1.8	NR
Lead	µg/L	1.1B*	(<1.0U)	NA	0.6
Iron	µg/L	7,190	6,320	12.9	NR
Magnesium	µg/L	4,800	4,910	NA	110
Manganese	µg/L	347	349	0.6	NR
Mercury	µg/L	0.22B*	(<0.20U)	NA	0.12
Potassium	µg/L	1980B*	2060B*	NA	80
Sodium	µg/L	33,700	33,700	0	NR

NOTE: B* = Analyte concentration is between the Instrument Detection Limit and the CRDL.
U = Not detected. Sample quantitation limits are shown as (<____U).
NA = Not applicable; the analyte concentration does not exceed 5 times the CRDL and, therefore, the difference measurement is applied.
NR = Not required; the analyte concentration exceeds 5 times the CRDL and, therefore, the RPD was applied.

All precision requirements were met for the above organic and inorganic analyses.

Analyte	Units	MW-NASB-080	MW-NASB-080 DUP	RPD %	Difference
Vinyl chloride	µg/L	3	2	40	---
1,1-Dichloroethene	µg/L	1	1	0	---
Aluminum	µg/L	170B*	239B*	NA	69
Arsenic	µg/L	(<2.0U)	3.6B*	NA	2.6
Barium	µg/L	666	659	NA	7
Calcium	µg/L	52,600	53,500	1.7	NR
Iron	µg/L	1180	1300	9.7	NR
Lead	µg/L	(<1.0U)	1.6B*	NA	1.1
Magnesium	µg/L	3,460	3,460	NA	0
Manganese	µg/L	165	142	15.0	NR
Potassium	µg/L	4,950B*	4,990B*	NA	40
Sodium	µg/L	14,700	14,800	0.7	NR
Thallium	µg/L	(<1.0U)	1.2	NA	0.7

NOTE: Dashes (---) indicate this column does not apply to organic analysis.
B* = Analyte concentration is between the Instrument Detection Limit and the CRDL.
U = Not detected. Sample quantitation limits are shown as (<____U).
NA = Not applicable; the analyte concentration does not exceed 5 times the CRDL and, therefore, the difference measurement is applied.
NR = Not required; the analyte concentration exceeds 5 times the CRDL and, therefore, the RPD was applied.

All precision requirements were met, with the exception of vinyl chloride. Vinyl chloride did not meet the criteria established for field duplicate precision, however, the concentration of the compound in the sample is of a level where analytical imprecision is expected, and should not be considered significant. Vinyl chloride results are usable as reported.

The following table shows the leachate seep sample duplicate results associated with SDG S9QS003:

Analyte	Units	LT-901 (SEEP)	LT-901 (SEEP) DUP	RPD %	Difference
Aluminum	µg/L	997	2,690	NA	1,693
Arsenic	µg/L	(<2.0U)	4.2B*	NA	3.2
Barium	µg/L	42.1B*	112B*	NA	69.9
Calcium	µg/L	17,900	20,800	15	NR
Chromium	µg/L	(<6.0U)	9.3B*	NA	6.3
Iron	µg/L	36,600	139,000	116.6	NR
Lead	µg/L	14.9	63.1	123.6	NR
Magnesium	µg/L	2,360	3,180	NA	820
Manganese	µg/L	235	354	40	NR
Potassium	µg/L	2,250	2,680	NA	430
Selenium	µg/L	(<1.0U)	1.2B*	NA	0.7
Sodium	µg/L	22,200	22,700	2.2	NR
Vanadium	µg/L	(<8.0U)	14.8B*	NA	10.8
Zinc	µg/L	31.7	76.3	NA	44.6

NOTE: B* = Analyte concentration is between the Instrument Detection Limit and the CRDL.
U = Not detected. Sample quantitation limits are shown as (<____U).
NA = Not applicable; the analyte concentration does not exceed 5 times the CRDL and, therefore, the difference measurement is applied.
NR = Not required; the analyte concentration exceeds 5 times the CRDL and, therefore, the RPD was applied.

All precision requirements were met, with the exception of the following: aluminum, iron, lead, manganese, and zinc. The positive results for these analytes should be considered estimations of the true concentrations for Sample LT-901 (SEEP).

Leachate seep sampling is a low flow sampling process; therefore, sampling imprecision is expected and should be considered to be normal within reason.

The following table shows the leachate station sediment sample duplicate results associated with SDG S9LTSD1:

Analyte	Units	LT-901 (SED)	LT-901 (SED) DUP	RPD %	Difference
Acetone	µg/Kg	78	(<15U)	170.9	---
Aluminum	mg/Kg	5,910	4,500	27.1	NR
Antimony	mg/Kg	0.46B*	(<0.29U)	NA	0.32
Arsenic	mg/Kg	2.8	4.0	NA	1.2
Barium	mg/Kg	36.4B*	16.1B*	NA	20.3
Beryllium	mg/Kg	0.25B*	(<0.15U)	NA	0.18
Cadmium	mg/Kg	2.7	2.5	NA	0.2
Calcium	mg/Kg	1,640	1,090	NA	550
Chromium	mg/Kg	16.6	11.5	NA	5.1
Cobalt	mg/Kg	3.1B*	3.2B*	NA	0.1
Copper	mg/Kg	12.8	11.8	NA	1.0
Iron	mg/Kg	10,500	9,430	10.7	NR
Lead	mg/Kg	135	96.8	32.9	NR
Magnesium	mg/Kg	2,460	2,030	NA	430
Manganese	mg/Kg	85.7	82.8	3.4	NR
Nickel	mg/Kg	10.9	9.1	NA	1.8
Potassium	mg/Kg	1160	581	NA	579
Selenium	mg/Kg	(<0.22U)	0.17B*	NA	0.06
Sodium	mg/Kg	276	162	NA	114
Vanadium	mg/Kg	19.6	16.5	NA	3.1
Zinc	mg/Kg	61.9	62.9	NA	1.0

NOTE: Dashes (---) indicate this column does not apply to organic analysis.
B* = Analyte concentration is between the Instrument Detection Limit and the CRDL.
U = Not detected. Sample quantitation limits are shown as (<____U).
NA = Not applicable; the analyte concentration does not exceed 5 times the CRDL and, therefore, the difference measurement is applied.
NR = Not required; the analyte concentration exceeds 5 times the CRDL and, therefore, the RPD was applied.

All precision requirements were met, with the exception of acetone. The positive result of acetone in Sample LT-901(SEEP) should be considered an estimate as it was not detected in the field duplicate.

Sediment samples were analyzed for VOC and SVOC only. The following table shows the duplicate sample results associated with sediment SDG S9SD001:

Analyte	Units	SED-011	SED-011 DUP	RPD %
Fluorene	µg/Kg	340J	1,700	133.3
Acenaphthene	µg/Kg	130J	1,100	149.6
Dibenzofuran	µg/Kg	(<410U)	400J	64.5
Phenanthrene	µg/Kg	4,100	22,000	137.2
Anthracene	µg/Kg	1,500	3,200	72.3
Carbazole	µg/Kg	90J	920	164
Fluoranthrene	µg/Kg	31,000	36,000	14.9
Pyrene	µg/Kg	32,000	39,000	19.7
Benzo(a)anthracene	µg/Kg	15,000	16,000	6.5
Chrysene	µg/Kg	18,000	16,000	11.4
Bis(2-ethylhexyl)phthalate	µg/Kg	3,300	3,600	8.7
Benzo(b)fluoranthene	µg/Kg	27,000	22,000	20.4
Benzo(k)fluoranthene	µg/Kg	5,300	4,900	7.8
Benzo(a)pyrene	µg/Kg	16,000	16,000	0
Indeno(1,2,3-cd)pyrene	µg/Kg	7,200	10,000	32.5
Dibenz(a,h)anthracene	µg/Kg	1,800	1,700	5.7
Benzo(g,h,i)perylene	µg/Kg	6,000	10,000	50
Acenaphthylene	µg/Kg	130J	420J	105.5

NOTE: J = Estimated concentration below detection limit.
U = Not detected. Sample quantitation limits are shown as (<____U).

All precision requirements were met for the volatile analyses, however, semivolatiles analyses exceeded precision criteria for fluorene, acenaphthene, dibenzofuran, phenanthrene, anthracene, carbazole, indeno(1,2,3-cd)pyrene, and acenaphthylene. Dibenzofuran and acenaphthylene concentrations are at or near the level of quantitation where analytical error is expected and, therefore, the exceedance of precision criteria should not be considered significant. The slightly non-homogeneous matrix of the sediment sample and its duplicate is confirmed by the difference in percent moisture (20 and 24 percent, respectively). The analytical results of the above noted compounds (with the exception of dibenzofuran and acenaphthylene) in Sample SED-011 should be considered as estimated concentrations of a non-homogeneous matrix.

B.8 METHOD DETECTION LIMITS FOR SOIL AND WATER SAMPLES

The tables in this section provide the method detection limit for solid samples (Table B-1) and aqueous samples (Table B-2). 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.

TABLE B-1 METHOD DETECTION LIMITS FOR SEDIMENT SAMPLES

Parameter	Units	Method Detection Limit	Date
SEMIVOLATILE ORGANICS GC/MS (SW-846 3540/8270B)			
Acenaphthene	µg/kg	140	24 JUL 96
Acenaphthylene	µg/kg	97	24 JUL 96
Anthracene	µg/kg	120	24 JUL 96
Benzidine	µg/kg	59	24 JUL 96
Benzo[a]anthracene	µg/kg	93	24 JUL 96
Benzo[b]fluoranthene	µg/kg	92	24 JUL 96
Benzo[k]fluoranthene	µg/kg	94	24 JUL 96
Benzo[a]pyrene	µg/kg	93	24 JUL 96
Benzo[ghi]perylene	µg/kg	120	24 JUL 96
Benzoic acid	µg/kg	200	24 JUL 96
Benzyl alcohol	µg/kg	82	24 JUL 96
Bis(2-chloroethyl) ether	µg/kg	110	24 JUL 96
Bis(2-chloroethoxy)methane	µg/kg	100	24 JUL 96
Bis(2-ethylhexyl) phthalate	µg/kg	94	24 JUL 96
4-Bromophenyl phenyl ether	µg/kg	120	24 JUL 96
Butylbenzylphthalate	µg/kg	89	24 JUL 96
Carbazole	µg/kg	110	24 JUL 96
4-Chloroaniline	µg/kg	85	24 JUL 96
4-Chloro-3-methylphenol	µg/kg	96	24 JUL 96
2-Chloronaphthalene	µg/kg	120	24 JUL 96
2-Chlorophenol	µg/kg	110	24 JUL 96
2-Chlorophenol-d4	µg/kg	97	24 JUL 96
4-Chlorophenyl phenyl ether	µg/kg	130	24 JUL 96
Chrysene	µg/kg	110	24 JUL 96
Cyclohexanone	µg/kg	88	24 JUL 96
Dibenzo[a,h]anthracene	µg/kg	130	24 JUL 96
Dibenzofuran	µg/kg	130	24 JUL 96
Di-n-butyl phthalate	µg/kg	150	24 JUL 96
1,2-Dichlorobenzene	µg/kg	110	24 JUL 96
1,2-Dichlorobenzene-d4	µg/kg	110	24 JUL 96
1,3-Dichlorobenzene	µg/kg	110	24 JUL 96
1,4-Dichlorobenzene	µg/kg	99	24 JUL 96
3,3'-Dichlorobenzidine	µg/kg	71	24 JUL 96
2,4-Dichlorophenol	µg/kg	82	24 JUL 96
Diethyl phthalate	µg/kg	88	24 JUL 96
4,6-Dinitro-2-Methylphenol	µg/kg	240	24 JUL 96
2,4-Dimethylphenol	µg/kg	92	24 JUL 96
Dimethyl phthalate	µg/kg	84	24 JUL 96
2,4-Dinitrophenol	µg/kg	190	24 JUL 96

(a) Determined according to the procedure specified in 40 CFR 136, Appendix B.

Parameter	Units	Method Detection Limit	Date
SEMIVOLATILE ORGANICS GC/MS (SW-846 3540/8270B) (Continued)			
2,4-Dinitrotoluene	µg/kg	110	24 JUL 96
2,6-Dinitrotoluene	µg/kg	110	24 JUL 96
1,2-Diphenylhydrazine	µg/kg	93	24 JUL 96
Di-n-octyl phthalate	µg/kg	85	24 JUL 96
Fluoranthene	µg/kg	150	24 JUL 96
2-Fluorobiphenyl	µg/kg	550	24 JUL 96
2-Fluorophenol	µg/kg	710	10 FEB 95
Fluorene	µg/kg	150	24 JUL 96
Hexachlorobenzene	µg/kg	110	24 JUL 96
Hexachlorobutadiene	µg/kg	110	24 JUL 96
Hexachloroethane	µg/kg	110	24 JUL 96
Hexachlorocyclopentadiene	µg/kg	95	24 JUL 96
Indeno[1,2,3-cd]pyrene	µg/kg	110	24 JUL 96
Isophorone	µg/kg	100	24 JUL 96
2-Methylnaphthalene	µg/kg	110	24 JUL 96
2-Methylphenol	µg/kg	91	24 JUL 96
3+4-Methylphenol	µg/kg	100	24 JUL 96
4-Methylphenol	µg/kg	100	24 JUL 96
Naphthalene	µg/kg	100	24 JUL 96
2-Nitroaniline	µg/kg	96	24 JUL 96
3-Nitroaniline	µg/kg	91	24 JUL 96
4-Nitroaniline	µg/kg	77	24 JUL 96
Nitrobenzene	µg/kg	100	24 JUL 96
Nitrobenzene-d_5	µg/kg	430	24 JUL 96
2-Nitrophenol	µg/kg	100	24 JUL 96
4-Nitrophenol	µg/kg	87	24 JUL 96
N-Nitrosodiphenylamine	µg/kg	87	24 JUL 96
N-Nitrosodimethylamine	µg/kg	86	24 JUL 96
N-Nitroso-di-n-propylamine	µg/kg	99	24 JUL 96
2,2'-Oxybis(1-chloropropane)	µg/kg	230	24 JUL 96
Pentachlorophenol	µg/kg	140	24 JUL 96
Phenanthrene	µg/kg	130	24 JUL 96
Phenol	µg/kg	89	24 JUL 96
Phenol-d4	µg/kg	650	24 JUL 96
Pyrene	µg/kg	76	24 JUL 96
Pyridine	µg/kg	210	24 JUL 96
Terphenyl-d_4	µg/kg	280	24 JUL 96
2,4,6-Tribromophenol	µg/kg	460	24 JUL 96
1,2,4-Trichlorobenzene	µg/kg	100	24 JUL 96
2,4,5-Trichlorophenol	µg/kg	99	24 JUL 96
2,4,6-Trichlorophenol	µg/kg	92	24 JUL 96

Parameter	Units	Method Detection Limit	Date
VOLATILE ORGANICS GC/MS - CAPILLARY COLUMN (SW-846 5030/8260)			
Acetone	µg/kg	3	27 FEB 97
Acetonitrile	µg/kg	18	27 FEB 97
Acrolein	µg/kg	12	27 FEB 97
Allyl chloride	µg/kg	3	27 FEB 97
Acrylonitrile	µg/kg	14	27 FEB 97
Benzene	µg/kg	1	27 FEB 97
Bromobenzene	µg/kg	1	27 FEB 97
Bromochloromethane	µg/kg	0.8	27 FEB 97
Bromodichloromethane	µg/kg	0.9	27 FEB 97
Bromofluorobenzene	µg/kg	0.8	27 FEB 97
Bromoform	µg/kg	1	27 FEB 97
Bromomethane	µg/kg	3	27 FEB 97
2-Butanone	µg/kg	4	27 FEB 97
sec-Butylbenzene	µg/kg	1	27 FEB 97
n-Butylbenzene	µg/kg	1	27 FEB 97
tert-Butylbenzene	µg/kg	0.9	27 FEB 97
Carbon disulfide	µg/kg	2	27 FEB 97
Carbon tetrachloride	µg/kg	1	27 FEB 97
Chlorobenzene	µg/kg	0.9	27 FEB 97
Chloroethane	µg/kg	1	27 FEB 97
2-Chloroethylvinyl ether	µg/kg	4	27 FEB 97
Chloroform	µg/kg	1	27 FEB 97
1-Chlorohexane	µg/kg	2	27 FEB 97
Chloromethane	µg/kg	2	27 FEB 97
Chloroprene	µg/kg	1	09 JAN 95
2-Chlorotoluene	µg/kg	0.9	27 FEB 97
4-Chlorotoluene	µg/kg	2	27 FEB 97
Dibromochloromethane	µg/kg	0.8	27 FEB 97
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	2	27 FEB 97
1,2-Dibromoethane (EDB)	µg/kg	0.9	27 FEB 97
Dibromofluoromethane	µg/kg	1	27 FEB 97
Dibromomethane	µg/kg	1	27 FEB 97
1,2-Dichlorobenzene	µg/kg	0.9	27 FEB 97
1,3-Dichlorobenzene	µg/kg	1	27 FEB 97
1,4-Dichlorobenzene	µg/kg	1	27 FEB 97
trans 1,4-dichloro2-Butene	µg/kg	4	27 FEB 97
Dichlorodifluoromethane	µg/kg	2	27 FEB 97
1,1-Dichloroethane	µg/kg	1	27 FEB 97
1,2-Dichloroethane	µg/kg	1	27 FEB 97
1,2-Dichloroehtan-d4	µg/kg	0.8	27 FEB 97
1,1-Dichloroethene	µg/kg	2	27 FEB 97
cis-1,2-Dichloroethene	µg/kg	1	27 FEB 97

Parameter	Units	Method Detection Limit	Date
VOLATILE ORGANICS GC/MS - CAPILLARY COLUMN (SW-846 5030/8260) (Continued)			
trans-1,2-Dichloroethene	µg/kg	2	27 FEB 97
1,2-Dichloropropane	µg/kg	4	27 FEB 97
1,3-Dichloropropane	µg/kg	1	27 FEB 97
2,2-Dichloropropane	µg/kg	2	27 FEB 97
1,1-Dichloropropene	µg/kg	1	27 FEB 97
cis-1,3-Dichloropropene	µg/kg	0.8	27 FEB 97
trans-1,3-Dichloropropene	µg/kg	0.8	27 FEB 97
Diisopropyl ether	µg/kg	2	27 FEB 97
Ethylbenzene	µg/kg	2	27 FEB 97
Ethyl acetate	µg/kg	2	27 FEB 97
Ethyl ether	µg/kg	2	27 FEB 97
Ethyl methacrylate	µg/kg	2	27 FEB 97
Hexachlorobutadiene	µg/kg	1	27 FEB 97
2-Hexanone	µg/kg	4	27 FEB 97
Iodomethane	µg/kg	0.8	27 FEB 97
Isobutyl alchol	µg/kg	40	27 FEB 97
Isopropylbenzene	µg/kg	1	27 FEB 97
p-Isopropyltoluene	µg/kg	0.9	27 FEB 97
Methacrylonitrile	µg/kg	3	27 FEB 97
Methylene chloride	µg/kg	1	27 FEB 97
Methyl methacrylate	µg/kg	2	27 FEB 97
4-Methyl-2-Pentanone	µg/kg	5	27 FEB 97
Methyl tertiary-butyl ether	µg/kg	2	27 FEB 97
Naphthalene	µg/kg	2	27 FEB 97
2-Nitropropane	µg/kg	3	27 FEB 97
Pentachloroethane	µg/kg	2	27 FEB 97
Propionitrile	µg/kg	20	27 FEB 97
n-Propylbenzene	µg/kg	1	27 FEB 97
Styrene	µg/kg	0.8	27 FEB 97
1,1,1,2-Tetrachloroethane	µg/kg	1	27 FEB 97
1,1,2,2-Tetrachloroethane	µg/kg	1	27 FEB 97
Tetrachloroethene	µg/kg	2	27 FEB 97
Tetrahydrofuran	µg/kg	4	27 FEB 97
Toluene-d_8	µg/kg	1	27 FEB 97
Toluene	µg/kg	1	27 FEB 97
1,2,3-Trichlorobenzene	µg/kg	1	27 FEB 97
1,2,4-Trichlorobenzene	µg/kg	1	27 FEB 97
1,1,1-Trichloroethane	µg/kg	1	27 FEB 97
1,1,2-Trichloroethane	µg/kg	1	27 FEB 97
Trichloroethene	µg/kg	0.9	27 FEB 97
Trichlorofluoromethane	µg/kg	2	27 FEB 97
1,2,3-Trichloropropane	µg/kg	1	27 FEB 97

Parameter	Units	Method Detection Limit	Date
VOLATILE ORGANICS GC/MS - CAPILLARY COLUMN (SW-846 5030/8260) (Continued)			
1,1,2-Trichlorotrifluoroethane	µg/kg	3	27 FEB 97
1,2,3-Trimethylbenzene	µg/kg	2	27 FEB 97
1,2,4-Trimethylbenzene	µg/kg	1	27 FEB 97
1,3,5-Trimethylbenzene	µg/kg	1	27 FEB 97
Vinyl chloride	µg/kg	2	27 FEB 97
Vinyl acetate	µg/kg	1	27 FEB 97
m&p-Xylenes	µg/kg	2	27 FEB 97
o-Xylene	µg/kg	1	27 FEB 97
Xylenes (total)	µg/kg	3	27 FEB 97
METALS - COLD VAPOR			
Mercury	mg/kg	0.10	16 MAY 96
METALS - FURNACE (SW-846 3050/7000 SERIES)			
Antimony	mg/kg	0.2	16 MAY 96
Arsenic	mg/kg	0.2	16 MAY 96
Beryllium	mg/kg	0.1	16 MAY 96
Cadmium	mg/kg	0.1	16 MAY 96
Chromium	mg/kg	0.2	16 MAY 96
Copper	mg/kg	0.2	16 MAY 96
Lead	mg/kg	0.1	16 MAY 96
Nickel	mg/kg	0.2	16 MAY 96
Selenium	mg/kg	0.1	16 MAY 96
Silver	mg/kg	0.1	16 MAY 96
Thallium	mg/kg	0.3	16 MAY 96
METALS - ICP (SW-846 3050/6010A)			
Aluminum	mg/kg	6.5	10 APR 97
Antimony	mg/kg	2.4	10 APR 97
Arsenic	mg/kg	2.9	10 APR 97
Barium	mg/kg	2.2	16 MAY 96
Beryllium	mg/kg	0.056	10 APR 97
Boron	mg/kg	1.1	10 APR 97
Cadmium	mg/kg	0.4	16 MAY 96
Calcium	mg/kg	7.9	16 MAY 96
Chromium	mg/kg	0.41	10 APR 97
Cobalt	mg/kg	0.65	10 APR 97
Copper	mg/kg	0.51	10 APR 97
Iron	mg/kg	5.3	16 MAY 96
Lead	mg/kg	5.1	10 APR 97
Lithium	mg/kg	0.22	10 APR 97
Magnesium	mg/kg	8.5	16 MAY 96
Manganese	mg/kg	0.6	16 MAY 96
Molybdenum	mg/kg	0.49	10 APR 97
Nickel	mg/kg	0.50	10 APR 97

Parameter	Units	Method Detection Limit	Date
METALS - ICP (SW-846 3050/6010A) (Continued)			
Potassium	mg/kg	6.3	10 APR 97
Selenium	mg/kg	4.4	10 APR 97
Silver	mg/kg	0.43	16 MAY 96
Sodium	mg/kg	8.1	10 APR 97
Strontium	mg/kg	0.1	16 MAY 96
Thallium	mg/kg	5.6	10 APR 97
Tin	mg/kg	2.4	16 MAY 96
Titanium	mg/kg	2.0	16 MAY 96
Vanadium	mg/kg	0.8	16 MAY 96
Zinc	mg/kg	1.2	10 APR 97
METALS - TRACE ICP (SW-846 3050/6010A)			
Antimony	mg/kg	0.13	10 APR 97
Arsenic	mg/kg	0.20	10 APR 97
Barium	mg/kg	0.61	10 APR 97
Beryllium	mg/kg	0.064	10 APR 97
Cadmium	mg/kg	0.056	10 APR 97
Chromium	mg/kg	0.0068	10 APR 97
Copper	mg/kg	0.23	10 APR 97
Lead	mg/kg	0.10	10 APR 97
Nickel	mg/kg	0.15	10 APR 97
Selenium	mg/kg	0.2	10 APR 97
Silver	mg/kg	0.11	10 APR 97
Thallium	mg/kg	0.37	10 APR 97

TABLE B-2 METHOD DETECTION LIMITS FOR AQUEOUS SAMPLES

Parameter	Units	Method Detection Limit[a]	Date
SEMIVOLATILE ORGANICS GC/MS (SW-846 3520/8270B)			
Acenaphthene	µg/L	3.0	26 JUL 96
Acenaphthylene	µg/L	4.0	26 JUL 96
Anthracene	µg/L	4.0	26 JUL 96
Benzidine	µg/L	18.0	09 AUG 96
Benzo[a]anthracene	µg/L	3.0	26 JUL 96
Benzo[b]fluoranthene	µg/L	4.0	26 JUL 96
Benzo[k]fluoranthene	µg/L	3.0	26 JUL 96
Benzo[a]pyrene	µg/L	4.0	26 JUL 96
Benzo[ghi]perylene	µg/L	5.0	26 JUL 96
Benzoic acid	µg/L	4.0	26 JUL 96
Benzyl alcohol	µg/L	4.0	26 JUL 96
Bis(2-chloroethyl) ether	µg/L	4.0	26 JUL 96
Bis(2-chloroethoxy)methane	µg/L	4.0	26 JUL 96
Bis(2-ethylhexyl) phthalate	µg/L	7.0	08 MAR 95
4-Bromophenyl phenyl ether	µg/L	5.0	26 JUL 96
Butylbenzylphthalate	µg/L	4.0	09 AUG 96
Carbazole	µg/L	5.0	26 JUL 96
4-Chloroaniline	µg/L	5.0	26 JUL 96
4-Chloro-3-methylphenol	µg/L	4.0	26 JUL 96
2-Chloronaphthalene	µg/L	3.0	26 JUL 96
2-Chlorophenol	µg/L	3.0	26 JUL 96
2-Chlorophenol-d^4	µg/L	4.0	08 MAR 95
4-Chlorophenyl phenyl ether	µg/L	4.0	26 JUL 96
Chrysene	µg/L	3.0	26 JUL 96
Cyclohexanone	µg/L	5.0	26 JUL 96
Dibenzo[a,h]anthracene	µg/L	4.0	26 JUL 96
Dibenzofuran	µg/L	4.0	26 JUL 96
Di-n-butyl phthalate	µg/L	4.0	09 AUG 96
1,2-Dichlorobenzene	µg/L	2.0	26 JUL 96
1,2-Dichlorobenzene-d^4	µg/L	4.0	08 MAR 95
1,3-Dichlorobenzene	µg/L	3.0	26 JUL 96
1,4-Dichlorobenzene	µg/L	3.0	26 JUL 96
3,3'-Dichlorobenzidine	µg/L	4.0	26 JUL 96
2,4-Dichlorophenol	µg/L	3.0	26 JUL 96
Diethyl phthalate	µg/L	3.0	09 AUG 96
4,6-Dinitro-2-Methylphenol	µg/L	6.0	26 JUL 96
2,4-Dimethylphenol	µg/L	3.0	26 JUL 96
Dimethyl phthalate	µg/L	3.0	09 AUG 96
2,4-Dinitrophenol	µg/L	6.0	26 JUL 96
2,4-Dinitrotoluene	µg/L	4.0	26 JUL 96

(a) Determined according to 40 CFR 136 Appendix B.

Parameter	Units	Method Detection Limit[a]	Date
SEMIVOLATILE ORGANICS GC/MS (SW-8463520/ 8270B) (Continued)			
2,6-Dinitrotoluene	µg/L	4.0	26 JUL 96
1,2-Diphenylhydrazine	µg/L	5.0	26 JUL 96
Di-n-octyl phthalate	µg/L	4.0	26 JUL 96
Fluoranthene	µg/L	5.0	26 JUL 96
2-Fluorobiphenyl	µg/L	4.0	08 MAR 95
Fluorene	µg/L	4.0	26 JUL 96
2-Fluorophenol	µg/L	4.0	08 MAR 95
Hexachlorobenzene	µg/L	6.0	26 JUL 96
Hexachlorobutadiene	µg/L	4.0	26 JUL 96
Hexachloroethane	µg/L	3.0	26 JUL 96
Hexachlorocyclopentadiene	µg/L	2.0	09 AUG 96
Indeno[1,2,3-cd]pyrene	µg/L	4.0	26 JUL 96
Isophorone	µg/L	4.0	26 JUL 96
2-Methylnaphthalene	µg/L	3.0	26 JUL 96
2-Methylphenol	µg/L	4.0	26 JUL 96
4-Methylphenol	µg/L	4.0	26 JUL 96
3+4-Methylphenol	µg/L	4.0	26 JUL 96
Naphthalene	µg/L	3.0	26 JUL 96
2-Nitroaniline	µg/L	5.0	26 JUL 96
3-Nitroaniline	µg/L	4.0	26 JUL 96
4-Nitroaniline	µg/L	4.0	26 JUL 96
Nitrobenzene	µg/L	4.0	26 JUL 96
Nitrobenzene-d_5	µg/L	4.0	08 MAR 95
2-Nitrophenol	µg/L	3.0	26 JUL 96
4-Nitrophenol	µg/L	5.0	26 JUL 96
N-Nitrosodiphenylamine	µg/L	4.0	26 JUL 96
N-Nitrosodimethylamine	µg/L	4.0	26 JUL 96
N-Nitroso-di-n-propylamine	µg/L	4.0	26 JUL 96
2,2'-Oxybis(1-chloropropane)	µg/L	4.0	26 JUL 96
Pentachlorophenol	µg/L	5.0	26 JUL 96
Phenanthrene	µg/L	5.0	26 JUL 96
Phenol	µg/L	4.0	26 JUL 96
Pyrene	µg/L	4.0	26 JUL 96
Pyridine	µg/L	4.0	09 AUG 96
Terphenyl-d_{14}	µg/L	2.0	08 MAR 95
2,4,6-Tribromophenol	µg/L	3.0	08 MAR 95
1,2,4-Trichlorobenzene	µg/L	3.0	26 JUL 96
2,4,5-Trichlorophenol	µg/L	3.0	26 JUL 96
2,4,6-Trichlorophenol	µg/L	3.0	26 JUL 96

Parameter	Units	Method Detection Limit[a]	Date
PESTICIDES AND PCBs GC/ECD - ORGANOCHLORINE COMPOUNDS (SW-846 3520/8080)			
Aldrin	µg/L	0.010	25 JUL 96
α-BHC	µg/L	0.009	25 JUL 96
β-BHC	µg/L	0.007	25 JUL 96
δ-BHC	µg/L	0.009	25 JUL 96
γ-BHC (Lindane)	µg/L	0.003	25 JUL 96
α-Chlordane	µg/L	0.003	25 JUL 96
γ-Chlordane	µg/L	0.007	25 JUL 96
Chlordane (Technical)	µg/L	0.22	19 JAN 96
4,4'-DDD	µg/L	0.010	25 JUL 96
4,4'-DDE	µg/L	0.010	25 JUL 96
4,4'-DDT	µg/L	0.026	25 JUL 96
Dieldrin	µg/L	0.025	25 JUL 96
Endosulfan I	µg/L	0.010	25 JUL 96
Endosulfan II	µg/L	0.010	25 JUL 96
Endosulfan sulfate	µg/L	0.032	25 JUL 96
Endrin	µg/L	0.008	25 JUL 96
Endrin aldehyde	µg/L	0.045	25 JUL 96
Endrin ketone	µg/L	0.010	25 JUL 96
Heptachlor	µg/L	0.008	25 JUL 96
Heptachlor epoxide	µg/L	0.016	25 JUL 96
Methoxychlor	µg/L	0.051	25 JUL 96
Toxaphene	µg/L	0.44	07 AUG 96
Aroclor 1016	µg/L	0.25	12 JUL 96
Aroclor 1221	µg/L	0.77	23 JUL 96
Aroclor 1232	µg/L	0.55	23 JUL 96
Aroclor 1242	µg/L	0.69	23 JUL 96
Aroclor 1248	µg/L	0.73	23 JUL 96
Aroclor 1254	µg/L	0.31	23 JUL 96
Aroclor 1260	µg/L	0.13	12 JUL 96
Aroclor 5432	µg/L	1.1	20 JUN 96
Aroclor 5460	µg/L	1.3	20 JUN 96
VOLATILE ORGANICS GC/MS - 5 mL PURGE - CAPILLARY COLUMN (SW-846 5030/8260)			
Acetone	µg/L	2.0	15 NOV 96
Allyl chloride	µg/L	0.4	15 NOV 96
Benzene	µg/L	0.3	15 NOV 96
Bromobenzene	µg/L	0.9	15 NOV 96
Bromochloromethane	µg/L	0.3	15 NOV 96
Bromodichloromethane	µg/L	0.3	15 NOV 96

Parameter	Units	Method Detection Limit[a]	Date
VOLATILE ORGANICS GC/MS - 5 mL PURGE - CAPILLARY COLUMN (SW-846 5030/8260) (Continued)			
Bromofluorobenzene	µg/L	0.3	15 NOV 96
Bromoform	µg/L	0.3	15 NOV 96
Bromomethane	µg/L	0.7	15 NOV 96
2-Butanone	µg/L	2.0	15 NOV 96
sec-Butylbenzene	µg/L	0.4	15 NOV 96
n-Butylbenzene	µg/L	0.5	15 NOV 96
tert-Butylbenzene	µg/L	0.4	15 NOV 96
Carbon disulfide	µg/L	0.4	15 NOV 96
Carbon tetrachloride	µg/L	0.4	15 NOV 96
Chlorobenzene	µg/L	0.3	15 NOV 96
Chloroethane	µg/L	0.4	15 NOV 96
2-Chloroethylvinyl ether	µg/L	0.9	15 NOV 96
Chloroform	µg/L	0.3	15 NOV 96
1-Chlorohexane	µg/L	0.5	15 NOV 96
Chloromethane	µg/L	0.4	15 NOV 96
2-Chlorotoluene	µg/L	0.3	15 NOV 96
4-Chlorotoluene	µg/L	0.4	15 NOV 96
Dibromochloromethane	µg/L	0.3	15 NOV 96
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	0.5	15 NOV 96
1,2-Dibromoethane (EDB)	µg/L	0.2	15 NOV 96
Dibromofluoromethane	µg/L	0.3	15 NOV 96
Dibromomethane	µg/L	0.3	15 NOV 96
1,2-Dichlorobenzene	µg/L	0.3	15 NOV 96
1,3-Dichlorobenzene	µg/L	0.3	15 NOV 96
1,4-Dichlorobenzene	µg/L	0.3	15 NOV 96
trans 1,4-dichloro2-Butene	µg/L	5.0	15 NOV 96
Dichlorodifluoromethane	µg/L	0.5	15 NOV 96
1,1-Dichloroethane	µg/L	0.3	15 NOV 96
1,2-Dichloroethane	µg/L	0.4	15 NOV 96
1,2-Dichloroehtane-d_4	µg/L	0.2	15 NOV 96
1,1-Dichloroethene	µg/L	0.4	15 NOV 96
cis-1,2-Dichloroethene	µg/L	0.3	15 NOV 96
trans-1,2-Dichloroethene	µg/L	0.4	15 NOV 96
1,2-Dichloropropane	µg/L	0.4	15 NOV 96
1,3-Dichloropropane	µg/L	0.3	15 NOV 96
2,2-Dichloropropane	µg/L	0.5	15 NOV 96
1,1-Dichloropropene	µg/L	0.5	15 NOV 96
cis-1,3-Dichloropropene	µg/L	0.3	15 NOV 96
trans-1,3-Dichloropropene	µg/L	0.3	15 NOV 96

Parameter	Units	Method Detection Limit[a]	Date
VOLATILE ORGANICS GC/MS - 5 mL PURGE - CAPILLARY COLUMN (SW-846 5030/8260) (Continued)			
Ethylbenzene	µg/L	0.4	15 NOV 96
Ethyl acetate	µg/L	0.7	15 NOV 96
Ethyl ether	µg/L	0.3	15 NOV 96
Ethyl methacrylate	µg/L	0.3	15 NOV 96
Hexachlorobutadiene	µg/L	0.4	15 NOV 96
Iodomethane	µg/L	0.4	15 NOV 96
Isobutyl alchol	µg/L	0.3	15 NOV 96
Isopropylbenzene	µg/L	0.4	15 NOV 96
p-Isopropyltoluene	µg/L	0.4	15 NOV 96
Methacrylonitrile	µg/L	0.5	15 NOV 96
Methylene chloride	µg/L	0.3	15 NOV 96
Methyl methacrylate	µg/L	0.3	15 NOV 96
4-Methyl-2-Pentanone	µg/L	1.6	15 NOV 96
Methyl tertiary-butyl ether	µg/L	0.4	15 NOV 96
Naphthalene	µg/L	0.6	15 NOV 96
Pentachloroethane	µg/L	0.3	15 NOV 96
n-Propylbenzene	µg/L	0.4	15 NOV 96
Styrene	µg/L	0.3	15 NOV 96
1,1,1,2-Tetrachloroethane	µg/L	0.3	15 NOV 96
1,1,2,2-Tetrachloroethane	µg/L	0.3	15 NOV 96
Tetrachloroethene	µg/L	0.4	15 NOV 96
Toluene-d_8	µg/L	0.3	15 NOV 96
Toluene	µg/L	0.4	15 NOV 96
1,2,3-Trichlorobenzene	µg/L	0.4	15 NOV 96
1,2,4-Trichlorobenzene	µg/L	0.4	15 NOV 96
1,1,1-Trichloroethane	µg/L	0.4	15 NOV 96
1,1,2-Trichloroethane	µg/L	0.3	15 NOV 96
Trichloroethene	µg/L	0.3	15 NOV 96
Trichlorofluoromethane	µg/L	0.5	15 NOV 96
1,2,3-Trichloropropane	µg/L	0.5	15 NOV 96
1,1,2-Trichlorotrifluoroethane	µg/L	0.5	15 NOV 96
1,2,3-Trimethylbenzene	µg/L	0.3	15 NOV 96
1,2,4-Trimethylbenzene	µg/L	0.3	15 NOV 96
1,3,5-Trimethylbenzene	µg/L	0.4	15 NOV 96
Vinyl chloride	µg/L	0.5	15 NOV 96
Vinyl acetate	µg/L	0.8	15 NOV 96
m&p-Xylenes	µg/L	0.7	15 NOV 96
o-Xylene	µg/L	0.4	15 NOV 96

Parameter	Units	Method Detection Limit[a]	Date
SEMIVOLATILE ORGANICS HPLC - PAHS (SW-846 3520/8310)			
Pyrethrin I	µg/L	0.53	19 FEB 97
Pyrethrin II	µg/L	0.16	19 FEB 97
Pyrethrin (total)	µg/L	0.70	19 FEB 97
Rotenone	µg/L	0.34	19 FEB 97
METALS - COLD VAPOR (SW-846 7470S)			
Mercury	µg/L	0.10	24 APR 97
METALS - FURNACE (SW-846 7000 SERIES)			
Antimony	µg/L	1.0	24 APR 97
Arsenic	µg/L	1.0	24 APR 97
Beryllium	µg/L	1.0	14 MAR 96
Cadmium	µg/L	1.0	24 APR 97
Chromium	µg/L	2.0	14 MAR 96
Copper	µg/L	1.4	24 APR 97
Lead	µg/L	1.4	24 APR 97
Nickel	µg/L	2.0	14 MAR 96
Selenium	µg/L	1.0	24 APR 97
Silver	µg/L	1.0	24 APR 97
Thallium	µg/L	1.4	24 APR 97
METALS - ICP (SW-846 3010/6010)			
Aluminum	µg/L	65.3	10 APR 97
Antimony	µg/L	24.1	10 APR 97
Arsenic	µg/L	29.2	10 APR 97
Barium	µg/L	17.0	08 NOV 94
Beryllium	µg/L	1.0	10 APR 97
Boron	µg/L	10.8	10 APR 97
Cadmium	µg/L	5.0	08 NOV 94
Calcium	µg/L	46.0	08 NOV 94
Chromium	µg/L	4.1	10 APR 97
Cobalt	µg/L	6.5	10 APR 97
Copper	µg/L	5.1	10 APR 97
Iron	µg/L	63.0	08 NOV 94
Lead	µg/L	51.3	10 APR 97
Lithium	µg/L	2.2	10 APR 97
Magnesium	µg/L	48.0	08 NOV 94
Manganese	µg/L	6.0	08 NOV 94
Molybdenum	µg/L	4.9	10 APR 97
Nickel	µg/L	5.0	10 APR 97
Potassium	µg/L	55.0	08 NOV 94
Selenium	µg/L	43.9	10 APR 97
Silicon	µg/L	63.0	08 NOV 94
Silver	µg/L	4.3	10 APR 97

Parameter	Units	Method Detection Limit[a]	Date
METALS - ICP (SW-846 3010/6010) (Continued)			
Sodium	μg/L	81.0	10 APR 97
Strontium	μg/L	1.0	08 NOV 94
Thallium	μg/L	55.9	10 APR 97
Tin	μg/L	25.0	08 NOV 94
Titanium	μg/L	2.0	08 NOV 94
Vanadium	μg/L	7.0	08 NOV 94
Zinc	μg/L	12.2	10 APR 97
METALS - TRACE ICP (SW-846 6010)			
Antimony	μg/L	1.3	10 APR 97
Arsenic	μg/L	2.0	10 APR 97
Barium	μg/L	6.1	10 APR 97
Beryllium	μg/L	1.0	10 APR 97
Cadmium	μg/L	1.0	10 APR 97
Chromium	μg/L	1.0	10 APR 97
Copper	μg/L	2.3	10 APR 97
Lead	μg/L	1.0	10 APR 97
Nickel	μg/L	1.5	10 APR 97
Selenium	μg/L	2.0	10 APR 97
Silver	μg/L	1.1	10 APR 97
Thallium	μg/L	3.7	10 APR 97

Appendix C

Summary Tables for Analyses of Tentatively Identified Compounds

TABLE C-1 SUMMARY OF TENTATIVELY IDENTIFIED COMPOUNDS REPORTED IN GROUND-WATER SAMPLES COLLECTED ON 23 MARCH 1997 AT SITE 9, NAVAL AIR STATION, BRUNSWICK, MAINE

Compound	Retention Time (min)	MW-NASB-069	MW-NASB-071	MW-NASB-071 DUP	MW-NASB-072	MW-NASB-074	MW-NASB-075
		MW-901	MW-903	MW-903	MW-903	MW-906	MW-907
VOLATILE ORGANIC COMPOUNDS BY EPA METHOD 8260 (μg/L)							
Cyclotetrasiloxane, octameth	22.25			4JN			

Compound	Retention Time (min)	MW-NASB-076	MW-NASB-079	MW-NASB-080 DUP	MW-NASB-081	
		MW-908	MW-914	MW-915	MW-916	QT-006
VOLATILE ORGANIC COMPOUNDS BY EPA METHOD 8260 (μg/L)						
Cyclotetrasiloxane, octameth	22.25					

NOTE: QT = Trip blank.
JN = Presumptive identification; estimated values.
Only those compounds detected in at least one of the samples are shown in this table.

TABLE C-2 SUMMARY OF TENTATIVELY IDENTIFIED COMPOUNDS REPORTED IN SURFACE WATER SAMPLES COLLECTED ON 21 MARCH 1997 AT SITE 9, NAVAL AIR STATION, BRUNSWICK, MAINE

Compound	Retention Time (min)	SW-010	SW-011	SW-012	QT-005	QS-003	QD-001
VOLATILE ORGANIC COMPOUNDS BY EPA METHOD 8260 (μg/L)							
Unknown Hydrocarbon	23.80		1J				
1,2,4-Trimethylbenzene	24.69		1JN	1JN			

NOTE:
- J = Estimated concentration below concentration limit.
- JN = Presumptive identification; estimated values.
- QT = Trip blank. Trip blank associated with surface water samples was analyzed under a separate sample delivery group shipped the same day.
- QS = Equipment rinsate blank. Samples associated with QS-003 were analyzed under a separate delivery group shipped on the same day.
- QD = Source water blank. Samples associated with QD-001 were analyzed under a separate sample delivery group shipped on 12 March 1997.

Only those compounds detected in at least one of the samples are shown on this table.

TABLE C-3 SUMMARY OF TENTATIVELY IDENTIFIED COMPOUNDS REPORTED IN SEDIMENT SAMPLES COLLECTED ON 21 MARCH 1997 AT SITE 9 NAVAL AIR STATION, BRUNSWICK, MAINE

Compound	Retention Time (min)	SED-010[a]	SED-011[a]	SED-011[a] DUP	SED-012	QT-005	QS-004	QD-001
VOLATILE ORGANIC COMPOUNDS BY EPA METHOD 8260 (μg/kg)								
Unknown	25.76			4J				
SEMIVOLATILE ORGANIC COMPOUNDS BY EPA METHOD 8270 (μg/kg)								
Unknown	3.84							15BJ
Unknown	4.14				430J			
2-Pentanone, 4-hydroxy-4-met	4.34						9ABJN	
Unknown	4.62						6BJ	
2-Pentanone, 4-hydroxy-4-met	4.63							4ABJN
Unknown	4.91							7J
.alpha.-Piene	5.04		5,500J					
Camphene	5.28		1,500J					
.beta.-Piene	5.68		2,300J					
Unknown	8.00		1,100J					
Unknown	8.59		790J					
Unknown C15H12 PAH	15.96		820J					
Dibenzothiophene	16.02			720JN				
Unknown	16.10		920J					
Hexadecanoic acid, methyl es	16.20				430JN			

(a) Reanalysis conducted on sample due to low recovery of surrogates.

NOTE: QT = Trip blank. Samples associated with QT-005 were analyzed under a separate delivery group shipped on the same day.
QS = Source water blank. Samples assocated with QS-004 were analyzed under a separate sample delivery group shipped on the same day.
QD = Source water blank. Samples associated with QD-001 were analyzed under a separate sample delivery group shipped on 12 March 1997.
J = Estimated concentration below concentration limit.
JN = Presumptive identification; estimated values.
Only those compounds detected in at least one of the samples are shown on this table.

Compound	Retention Time (min)	SED-010[a]	SED-011[a]	SED-011[a] DUP	SED-012	QT-005	QS-004	QD-001
SEMIVOLATILE ORGANIC COMPOUNDS BY EPA METHOD 8270 (μg/kg) (Continued)								
Unknown	16.36	310J			210J			
Unknown	16.58	690J						
Unknown	16.65		900J					
Unknown	16.68	950J						
Unknown	16.73		1,900J					
9,10-Anthracenedione	16.79	400JN						
9,10-Anthracenedione	16.80				290JN			
Unknown	16.90		7,200J					
Unknown C15H12 PAH	17.27			1,000J				
Unknown C15H12 PAH	17.33			1,400J				
Unknown	17.49			2,600J				
Unknown	17.50		850J					
Unknown	17.70				360J			
Unknown	17.81			750J				
Unknown	17.87	520J						
2-Phenylnphthalene	17.89			1,000J				
Unknown	18.02			4,000J				
Unknown	18.21			810J				
Unknown dimethylphenanthrene	18.40			1,000J				
Unknown PAH	18.42		750J					
Unknown	18.67				300J			
Unknown C17H12 PAH	18.84	280J						
Unknown	18.84			890J				
Unknown C17H12 PAH	18.91				210J			
Unknown	19.59	270J						
Unknown MW234	19.79			1,600J				

Compound	Retention Time (min)	SED-010[a]	SED-011[a]	SED-011[a] DUP	SED-012	QT-005	QS-004	QD-001
SEMIVOLATILE ORGANIC COMPOUNDS BY EPA METHOD 8270 (μg/kg) (Continued)								
Unknown	20.03	600J						
Unknown PAH	20.03				230J			
Unknown	21.38				220J			
Unknown MW258	21.60		2,100J					
Unknown	21.68		4,900J					
Unknown	21.77	510J			850J			
Unknown hydrocarbon	21.87		2,200J					
Unknown hydrocarbon	22.11				540J			
Unknown C20H12 PAH	22.37		4,300J					
Unknown	22.62	1,100J			2,200J			
Unknown C20H12 PAH	22.67		7,800J					
Unknown C20H12 PAH	22.94	880J						
Unknown hydrocarbon	23.09			2,700J				
Unknown	23.25			1,200J				
Unknown	23.35				380J			
Unknown	23.53		4,700J					
Unknown	23.76			2,800J				
Unknown	23.78				2,500J			
Unknown	23.79	1,000J						
Unknown C20H12 PAH	23.80			2,000J				
Unknown hydrocarbon	23.97			1,600J				
Unknown	24.01	570J						
Unknown	24.10	1,800J						
Unknown hydrocarbon	24.12				950J			
Unknown C20H12 PAH	24.13			6,300J				
Unknown	24.17	880J			1,300J			

Compound	Retention Time (min)	SED-010[a]	SED-011[a]	SED-011[a] DUP	SED-012	QT-005	QS-004	QD-001
SEMIVOLATILE ORGANIC COMPOUNDS BY EPA METHOD 8270 (μg/kg) (Continued)								
Unknown	24.23	2,600J						
Unknown C20H12 PAH	24.40			2,300J				
Unknown	24.68	360J						
Unknown	24.80	420J						
Unknown	24.81		2,600J					
Unknown	25.17	630J			1,100J			
Unknown	25.50		5,500J					
Unknown	25.71			2,300J				
Unknown	25.93	1,100J						
Unknown	25.94				460J			
Unknown	26.42				280J			
Unknown PAH	26.56			1,500J				
Unknwon	27.07				220J			
Unknown	27.27			1,200J				
Unknown C22H12 PAH	27.99			1,300J				

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 Seep and Sediment Samples Site 9
D.5 MS/MSD Recovery Reports

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	
S9-MW005	MW-NASB-069
S9-MW009	MW-NASB-071
S9-MWXD2	MW-NASB-071 (DUP)
S9-MW001	MW-NASB-072
S9-MW004	MW-NASB-074
S9-MW003	MW-NASB-075
S9-MW002	MW-NASB-076
S9-MW007	MW-NASB-079
S9-MW006	MW-NASB-080
S9-MWXD1	MW-NASB-080 (DUP)
S9-MW008	MW-NASB-081
Trip Blanks	
S9-QT-006	QT-006

Chain of Custody Record

EA Laboratories
19 Loveton Circle
Sparks, MD 21152
Telephone: (410) 771-4920
Fax: (410) 771-4407

Company Name: EA Engineering
Project No.: 2960047
Dept.: 5300 Task: 7301
Sample Storage Location: I5
Page 1 of 1
Report #: 970401

Project Manager or Contact: Mike Battle
Phone: 914-565-8100
Project Name: LTMP Event 8
ATO Number:

Parameters and Method Numbers for Analysis

Report Deliverables: 1 2 3 (4) (D) E
EDD: (Yes)/No QPRO PRO
DUE TO CLIENT: Hard copy due 4/25/97
EDDs due 5/8/97

Date	Time	Water	Soil	Sample Identification 19 Characters	No. of Containers	VOC by 8260 plus TICs	TAL Elements SWS-46	Metals 6010/		EA Labs Accession Number	Remarks
3/23/97	0915	X		BN-08-S9-MW001	8	X	X		MS/MSD	9702972	LPM: Mary E Asper
3/23/97	0915	X		BN-08-S9-9T006	2	X				9702973	SDG starts with
3/23/97	0917	X		BN-08-S9-MW002	2	X				9702974	sample BN-08-S9-
3/23/97	1023	X		BN-08-S9-MW003	2	X				9702975	MW001. All samples
3/23/97	1042	X		BN-08-S9-MW004	2	X				9702976	batched with that
3/23/97	1140	X		BN-08-S9-MW005	2	X				9702977	SDG. SDG ends
3/23/97	1220	X		BN-09-S9-MW006	3	X	X			9702978	with BN-09-S9-
3/23/97	1240	X		BN-09-S9-MW007	3	X	X			9702979	MWXD2.
3/23/97	1430	X		BN-09-S9-MW008	3	X	X			9702980	
3/23/97	1520	X		BN-09-S9-MW009	3	X	X			9702981	CC0000448
3/23/97	—	X		BN-09-S9-MWXD1	3	X	X			9702982	Temp blank included.
3/23/97	—	X		BN-09-S9-MWXD2	3	X	X			9702983	
											VOC by 8260 plus
											library search
											TAL Elements, refer
											to Table 7-1 in QAPP
											~~SDG # BN-08-S9-MW001 (Start)~~ BH
											L11346

Samples by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
Brian D. Anderson	3/23/97 1600				
Relinquished by: (Signature)	**Date/Time**	**Received by Laboratory: (Signature)**	**Date/Time**	**Airbill Number:**	
Brian Anderson 2.1 2.2	3/24/97 1600	[signature]	3/25/97 1000	3161399872	

Cooler Temp. TWO Coolers C pH: ☒ Yes ☐ No Comments: C2
Custody Seals Intact ☒ Yes ☐ No TWO on each

Sample Shipped by: (Circle) (Fed Ex.) Puro. UPS
Hand Carried
Other:

NOTE: Please indicate method number for analyses requested. This will help clarify any questions with laboratory techniques.

WHITE—EA Laboratories YELLOW—EA Laboratories PINK—Project Manager

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
BN08S9MW005

Lab Name: EA LABORATORIES Contract: _____

Lab Code: EA ENG Case No.: _____ SAS No.: 8260 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 9702977

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: VH8B2129.D

Level: (low/med) _____ Date Received: 3/25/97

% Moisture: not dec. 0 Date Analyzed: 3/30/97

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

Concentration Units: (ug/L or ug/Kg) ug/L

CAS No.	Compound		Q
74-87-3	Chloromethane	1	U
75-01-4	Vinyl Chloride	1	U
74-83-9	Bromomethane	1	U
75-00-3	Chloroethane	1	U
67-64-1	Acetone	5	U
75-35-4	1,1-Dichloroethene	1	U
75-09-2	Methylene Chloride	1	U
75-15-0	Carbon Disulfide	1	U
75-34-3	1,1-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
540-59-0	1,2-Dichloroethene (total)	1	U
67-66-3	Chloroform	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
107-06-2	1,2-Dichloroethane	1	U
71-43-2	Benzene	1	U
79-01-6	Trichloroethene	1	U
78-87-5	1,2-Dichloropropane	1	U
75-27-4	Bromodichloromethane	1	U
108-10-1	4-Methyl-2-Pentanone	5	U
10061-01-5	cis-1,3-Dichloropropene	1	U
108-88-3	Toluene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
79-00-5	1,1,2-Trichloroethane	1	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
124-48-1	Chlorodibromomethane	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylenes (total)	1	U
100-42-5	Styrene	1	U
75-25-2	Bromoform	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BN08S9MW005

Lab Name: EA LABORATORIES Contract:

Lab Code: EA ENG Case No.: SAS No.: 8260 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 9702977

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: VH8B2129.D

Level: (low/med) Date Received: 3/25/97

% Moisture: not dec. 0 Date Analyzed: 3/30/97

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

Concentration Units: (ug/L or ug/Kg) ug/L

CAS No.	Compound		Q
95-50-1	1,2-Dichlorobenzene	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U

FORM I VOA

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BN08S9MW005

Lab Name: EA LABORATORIES Contract:

Lab Code: EA ENG Case No.: SAS No.: 8260 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 9702977

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: VH8B2129.D

Level: (low/med) Date Received: 3/25/97

% Moisture: not dec. 0 Date Analyzed: 3/30/97

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

Concentration Units: (ug/L or ug/Kg) ug/L

CAS Number	Compound Name	RT	Est. Conc.	Q
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BN0~~8~~S9MW009
9

Lab Name: EA LABORATORIES Contract:

Lab Code: EA ENG Case No.: SAS No.: 8260 SDG No.: CB 4/24/97

Matrix: (soil/water) WATER Lab Sample ID: 9702981

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: VH8B2133.D

Level: (low/med) Date Received: 3/25/97

% Moisture: not dec.. 0 Date Analyzed: 3/30/97

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

Concentration Units: (ug/L or ug/Kg) ug/L

CAS No.	Compound		Q
74-87-3	Chloromethane	1	U
75-01-4	Vinyl Chloride	1	U
74-83-9	Bromomethane	1	U
75-00-3	Chloroethane	1	U
67-64-1	Acetone	5	U
75-35-4	1,1-Dichloroethene	1	U
75-09-2	Methylene Chloride	1	U
75-15-0	Carbon Disulfide	1	U
75-34-3	1,1-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
540-59-0	1,2-Dichloroethene (total)	1	U
67-66-3	Chloroform	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
107-06-2	1,2-Dichloroethane	1	U
71-43-2	Benzene	1	U
79-01-6	Trichloroethene	1	U
78-87-5	1,2-Dichloropropane	1	U
75-27-4	Bromodichloromethane	1	U
108-10-1	4-Methyl-2-Pentanone	5	U
10061-01-5	cis-1,3-Dichloropropene	1	U
108-88-3	Toluene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
79-00-5	1,1,2-Trichloroethane	1	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
124-48-1	Chlorodibromomethane	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylenes (total)	1	U
100-42-5	Styrene	1	U
75-25-2	Bromoform	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U

030106

FORM I VOA

3/90

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BN0~~8~~S9MW009
9

Lab Name: EA LABORATORIES Contract:

Lab Code: EA ENG Case No.: SAS No.: 8260 SDG No.:

EB 4/24/97

Matrix: (soil/water) WATER Lab Sample ID: 9702981

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: VH8B2133.D

Level: (low/med) Date Received: 3/25/97

% Moisture: not dec. 0 Date Analyzed: 3/30/97

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

Concentration Units: (ug/L or ug/Kg) ug/L

CAS No.	Compound		Q
95-50-1	1,2-Dichlorobenzene	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U

030107

FORM I VOA

3/90

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BN0~~8~~9S9MW009

ER 4/24/97

Lab Name: EA LABORATORIES Contract: _____

Lab Code: EA ENG Case No.: _____ SAS No.: 8260 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 9702981

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: VH8B2133.D

Level: (low/med) _____ Date Received: 3/25/97

% Moisture: not dec. 0 Date Analyzed: 3/30/97

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

Concentration Units: (ug/L or ug/Kg) ug/L

CAS Number	Compound Name	RT	Est. Conc.	Q
1.				
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030108

EPA SW846

FORM 1
METALS ANALYSIS DATA SHEET

LAB SAMPLE NUMBER

T02981

Laboratory: EA LABORATORIES

SDG No.: T02967

Matrix: WATER

Client ID: BN-~~08~~ 09-SA-MW009 PC

Percent Solids: 0.0

Date Received: 03/25/97

Results for: TOTAL metals

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	25.0	U		P
7440-36-0	Antimony	2.0	U		~~F~~ P
7440-38-2	Arsenic	2.0	U		F
7440-39-3	Barium	22.0	U		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	10800			P
7440-47-3	Chromium	6.0	U		P
7440-48-4	Cobalt	11.0	U		P
7440-50-8	Copper	6.0	U		P
7439-89-6	Iron	7190			P
7439-92-1	Lead	1.1	B		F
7439-95-4	Magnesium	4800			P
7439-96-5	Manganese	347		E	P
7439-97-6	Mercury	0.22	B		CV
7440-02-0	Nickel	15.0	U		P
7440-09-7	Potassium	1980	B		P
7782-49-2	Selenium	1.0	U		F
7440-22-4	Silver	4.0	U		P
7440-23-5	Sodium	33700			P
7440-28-0	Thallium	1.0	U		F
7440-62-2	Vanadium	8.0	U		P
7440-66-6	Zinc	12.0	U		P

PC 4/23/97

M = "P" ICP SW6010
M = "F" Graphite Furnace AA As by SW7060, Pb by SW7421, Se by SW7740, Tl by SW7841, Sb by 7041
"CV" Cold Vapor AA - waters by SW7470, soils by SW7471

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
BN0~~8~~9S9MWXD2
9

Lab Name: EA LABORATORIES Contract:

Lab Code: EA ENG Case No.: SAS No.: 8260 SDG No.: CB 4/24/97

Matrix: (soil/water) WATER Lab Sample ID: 9702983

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: VH8B2135.D

Level: (low/med) Date Received: 3/25/97

% Moisture: not dec. 0 Date Analyzed: 3/30/97

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	1	U
75-01-4	Vinyl Chloride	1	U
74-83-9	Bromomethane	1	U
75-00-3	Chloroethane	1	U
67-64-1	Acetone	5	U
75-35-4	1,1-Dichloroethene	1	U
75-09-2	Methylene Chloride	1	U
75-15-0	Carbon Disulfide	1	U
75-34-3	1,1-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
540-59-0	1,2-Dichloroethene (total)	1	U
67-66-3	Chloroform	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
107-06-2	1,2-Dichloroethane	1	U
71-43-2	Benzene	1	U
79-01-6	Trichloroethene	1	U
78-87-5	1,2-Dichloropropane	1	U
75-27-4	Bromodichloromethane	1	U
108-10-1	4-Methyl-2-Pentanone	5	U
10061-01-5	cis-1,3-Dichloropropene	1	U
108-88-3	Toluene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
79-00-5	1,1,2-Trichloroethane	1	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
124-48-1	Chlorodibromomethane	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylenes (total)	1	U
100-42-5	Styrene	1	U
75-25-2	Bromoform	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U

03012

FORM I VOA

3/90

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BN0~~8~~9S9MWXD2
9

Lab Name: EA LABORATORIES Contract:

Lab Code: EA ENG Case No.: SAS No.: 8260 SDG No.: CB 4/24/97

Matrix: (soil/water) WATER Lab Sample ID: 9702983

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: VH8B2135.D

Level: (low/med) Date Received: 3/25/97

% Moisture: not dec. 0 Date Analyzed: 3/30/97

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

Concentration Units: (ug/L or ug/Kg) ug/L

CAS No.	Compound		Q
95-50-1	1,2-Dichlorobenzene	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U

030126

FORM I VOA

3/90

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BN0~~8~~9S9MWXD2

CB 4/24/97

Lab Name: EA LABORATORIES Contract:

Lab Code: EA ENG Case No.: SAS No.: 8260 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 9702983

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: VH8B2135.D

Level: (low/med) Date Received: 3/25/97

% Moisture: not dec. 0 Date Analyzed: 3/30/97

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

Number TICs found: 1

Concentration Units: (ug/L or ug/Kg) ug/L

CAS Number	Compound Name	RT	Est. Conc.	Q
1. 556-67-2	Cyclotetrasiloxane, octameth	22.25	4	JN
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030127

EPA SW846

FORM 1
METALS ANALYSIS DATA SHEET

LAB SAMPLE NUMBER

T02983

Laboratory: EA LABORATORIES

SDG No.: T02967

Matrix: WATER

Client ID: ~~BN-09-59~~ MWXD2

Percent Solids: 0.0

Date Received: 03/25/97

Results for: TOTAL metals

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	35.0	B		P
7440-36-0	Antimony	2.0	U		~~P~~ P
7440-38-2	Arsenic	2.0	U		F
7440-39-3	Barium	22.0	U		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	11000			P
7440-47-3	Chromium	6.0	U		P
7440-48-4	Cobalt	11.0	U		P
7440-50-8	Copper	6.0	U		P
7439-89-6	Iron	6320			P
7439-92-1	Lead	1.0	U		F
7439-95-4	Magnesium	4910			P
7439-96-5	Manganese	349		E	P
7439-97-6	Mercury	0.20	U	W	CV
7440-02-0	Nickel	15.0	U		P
7440-09-7	Potassium	2060	B		P
7782-49-2	Selenium	1.0	U		F
7440-22-4	Silver	4.0	U		P
7440-23-5	Sodium	33700			P
7440-28-0	Thallium	1.0	U		F
7440-62-2	Vanadium	8.0	U		P
7440-66-6	Zinc	12.0	U		P

PC 4/23/97

M = "P" ICP SW6010
M = "F" Graphite Furnace AA As by SW7060, Pb by SW7421, Se by SW7740, Tl by SW7841, Sb by 7041
M = "CV" Cold Vapor AA - waters by SW7470, soils by SW7471

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

08S9MW001

Lab Name: EA LABORATORIES Contract: _____

Lab Code: EA ENG Case No.: _____ SAS No.: 8260 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 9702972

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: VH8B2124.D

Level: (low/med) _____ Date Received: 3/25/97

% Moisture: not dec. 0 Date Analyzed: 3/30/97

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

Concentration Units: (ug/L or ug/Kg) ug/L

CAS No.	Compound		Q
74-87-3	Chloromethane	1	U
75-01-4	Vinyl Chloride	2	
74-83-9	Bromomethane	1	U
75-00-3	Chloroethane	1	U
67-64-1	Acetone	5	U
75-35-4	1,1-Dichloroethene	1	U
75-09-2	Methylene Chloride	1	U
75-15-0	Carbon Disulfide	1	U
75-34-3	1,1-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
540-59-0	1,2-Dichloroethene (total)	1	U
67-66-3	Chloroform	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
107-06-2	1,2-Dichloroethane	1	U
71-43-2	Benzene	1	U
79-01-6	Trichloroethene	1	U
78-87-5	1,2-Dichloropropane	1	U
75-27-4	Bromodichloromethane	1	U
108-10-1	4-Methyl-2-Pentanone	5	U
10061-01-5	cis-1,3-Dichloropropene	1	U
108-88-3	Toluene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
79-00-5	1,1,2-Trichloroethane	1	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
124-48-1	Chlorodibromomethane	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylenes (total)	1	U
100-42-5	Styrene	1	U
75-25-2	Bromoform	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
08S9MW001

Lab Name: EA LABORATORIES Contract:

Lab Code: EA ENG Case No.: SAS No.: 8260 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 9702972

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: VH8B2124.D

Level: (low/med) Date Received: 3/25/97

% Moisture: not dec. 0 Date Analyzed: 3/30/97

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

Concentration Units: (ug/L or ug/Kg) ug/L

CAS No.	Compound		Q
95-50-1	1,2-Dichlorobenzene	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

08S9MW001

Lab Name: EA LABORATORIES Contract: _____

Lab Code: EA ENG Case No.: _____ SAS No.: 8260 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 9702972

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: VH8B2124.D

Level: (low/med) _____ Date Received: 3/25/97

% Moisture: not dec. 0 Date Analyzed: 3/30/97

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

Concentration Units: (ug/L or ug/Kg) ug/L

CAS Number	Compound Name	RT	Est. Conc.	Q
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EPA SW846

FORM 1
METALS ANALYSIS DATA SHEET

LAB SAMPLE NUMBER
T02972

aboratory: EA LABORATORIES

SDG No.: T02967

Matrix: WATER

Client ID: BN-08-S9-MW001

Percent Solids: 0.0

Date Received: 03/25/97

Results for: TOTAL metals

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	380	B		P
7440-36-0	Antimony	2.0	U		~~F~~ P
7440-38-2	Arsenic	2.0	U		F
7440-39-3	Barium	22.0	U		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	1.5			P
7440-70-2	Calcium	13700			P
7440-47-3	Chromium	6.0	U		P
7440-48-4	Cobalt	11.0	U		P
7440-50-8	Copper	6.0	U		P
7439-89-6	Iron	758			P
7439-92-1	Lead	1.0	U	W	F
7439-95-4	Magnesium	3960			P
7439-96-5	Manganese	107		E	P
7439-97-6	Mercury	0.21	B		CV
7440-02-0	Nickel	15.0	U		P
7440-09-7	Potassium	1030	B		P
7782-49-2	Selenium	1.0	U		F
7440-22-4	Silver	4.0	U		P
7440-23-5	Sodium	5840			P
7440-28-0	Thallium	1.0	U		F
7440-62-2	Vanadium	8.0	U		P
7440-66-6	Zinc	12.0	U		P

PC 4/23/97

M = "P" ICP SW6010
M = "F" Graphite Furnace AA As by SW7060, Pb by SW7421, Se by SW7740, Tl by SW7841, Sb by 7041
M = "CV" Cold Vapor AA - waters by SW7470, soils by SW7471

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
BN08S9MW004

Lab Name: EA LABORATORIES Contract: _____

Lab Code: EA ENG Case No.: _____ SAS No.: 8260 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 9702976

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: VH8B2128.D

Level: (low/med) _____ Date Received: 3/25/97

% Moisture: not dec. 0 Date Analyzed: 3/30/97

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

Concentration Units: (ug/L or ug/Kg) ug/L

CAS No.	Compound		Q
74-87-3	Chloromethane	1	U
75-01-4	Vinyl Chloride	1	U
74-83-9	Bromomethane	1	U
75-00-3	Chloroethane	1	U
67-64-1	Acetone	5	U
75-35-4	1,1-Dichloroethene	1	U
75-09-2	Methylene Chloride	1	U
75-15-0	Carbon Disulfide	1	U
75-34-3	1,1-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
540-59-0	1,2-Dichloroethene (total)	2	
67-66-3	Chloroform	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
107-06-2	1,2-Dichloroethane	1	U
71-43-2	Benzene	1	U
79-01-6	Trichloroethene	1	J
78-87-5	1,2-Dichloropropane	1	U
75-27-4	Bromodichloromethane	1	U
108-10-1	4-Methyl-2-Pentanone	5	U
10061-01-5	cis-1,3-Dichloropropene	1	U
108-88-3	Toluene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
79-00-5	1,1,2-Trichloroethane	1	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
124-48-1	Chlorodibromomethane	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylenes (total)	1	U
100-42-5	Styrene	1	U
75-25-2	Bromoform	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BN08S9MW004

Lab Name: EA LABORATORIES Contract:

Lab Code: EA ENG Case No.: SAS No.: 8260 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 9702976

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: VH8B2128.D

Level: (low/med) Date Received: 3/25/97

% Moisture: not dec. 0 Date Analyzed: 3/30/97

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

Concentration Units: (ug/L or ug/Kg) ug/L

CAS No.	Compound		Q
95-50-1	1,2-Dichlorobenzene	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BN08S9MW004

Lab Name: EA LABORATORIES Contract: _____

Lab Code: EA ENG Case No.: _____ SAS No.: 8260 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 9702976

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: VH8B2128.D

Level: (low/med) _____ Date Received: 3/25/97

% Moisture: not dec. 0 Date Analyzed: 3/30/97

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

Concentration Units: (ug/L or ug/Kg) ug/L

CAS Number	Compound Name	RT	Est. Conc.	Q
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
BN08S9MW003

Lab Name: EA LABORATORIES Contract: _____

Lab Code: EA ENG Case No.: _____ SAS No.: 8260 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 9702975

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: VH8B2127.D

Level: (low/med) _____ Date Received: 3/25/97

% Moisture: not dec. 0 Date Analyzed: 3/30/97

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

Concentration Units: (ug/L or ug/Kg) ug/L

CAS No.	Compound		Q
74-87-3	Chloromethane	1	U
75-01-4	Vinyl Chloride	8	
74-83-9	Bromomethane	1	U
75-00-3	Chloroethane	1	U
67-64-1	Acetone	5	U
75-35-4	1,1-Dichloroethene	1	U
75-09-2	Methylene Chloride	1	U
75-15-0	Carbon Disulfide	1	U
75-34-3	1,1-Dichloroethane	0.9	J
78-93-3	2-Butanone	5	U
540-59-0	1,2-Dichloroethene (total)	1	
67-66-3	Chloroform	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
107-06-2	1,2-Dichloroethane	1	U
71-43-2	Benzene	1	U
79-01-6	Trichloroethene	1	U
78-87-5	1,2-Dichloropropane	1	U
75-27-4	Bromodichloromethane	1	U
108-10-1	4-Methyl-2-Pentanone	5	U
10061-01-5	cis-1,3-Dichloropropene	1	U
108-88-3	Toluene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
79-00-5	1,1,2-Trichloroethane	1	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
124-48-1	Chlorodibromomethane	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylenes (total)	1	U
100-42-5	Styrene	1	U
75-25-2	Bromoform	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BN08S9MW003

Lab Name: EA LABORATORIES Contract:

Lab Code: EA ENG Case No.: SAS No.: 8260 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 9702975

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: VH8B2127.D

Level: (low/med) Date Received: 3/25/97

% Moisture: not dec. 0 Date Analyzed: 3/30/97

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

Concentration Units: (ug/L or ug/Kg) ug/L

CAS No.	Compound		Q
95-50-1	1,2-Dichlorobenzene	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BN08S9MW003

Lab Name: EA LABORATORIES Contract: _____

Lab Code: EA ENG Case No.: _____ SAS No.: 8260 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 9702975

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: VH8B2127.D

Level: (low/med) _____ Date Received: 3/25/97

% Moisture: not dec. 0 Date Analyzed: 3/30/97

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

Concentration Units: (ug/L or ug/Kg) ug/L

CAS Number	Compound Name	RT	Est. Conc.	Q
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030050

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
BN08S9MW002

Lab Name: EA LABORATORIES Contract: _____

Lab Code: EA ENG Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 9702974

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: VH8B2115.D

Level: (low/med) _____ Date Received: 3/25/97

% Moisture: not dec. _____ Date Analyzed: 3/29/97

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

Concentration Units: (ug/L or ug/Kg) ug/L

CAS No.	Compound		Q
74-87-3	Chloromethane	1	U
75-01-4	Vinyl Chloride	15	
74-83-9	Bromomethane	1	U
75-00-3	Chloroethane	1	U
67-64-1	Acetone	5	U
75-35-4	1,1-Dichloroethene	1	U
75-09-2	Methylene Chloride	1	U
75-15-0	Carbon Disulfide	1	U
75-34-3	1,1-Dichloroethane	0.7	J
78-93-3	2-Butanone	5	U
540-59-0	1,2-Dichloroethene (total)	2	
67-66-3	Chloroform	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
107-06-2	1,2-Dichloroethane	1	U
71-43-2	Benzene	1	U
79-01-6	Trichloroethene	0.4	J
78-87-5	1,2-Dichloropropane	1	U
75-27-4	Bromodichloromethane	1	U
108-10-1	4-Methyl-2-Pentanone	5	U
10061-01-5	cis-1,3-Dichloropropene	1	U
108-88-3	Toluene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
79-00-5	1,1,2-Trichloroethane	1	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
124-48-1	Chlorodibromomethane	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylenes (total)	1	U
100-42-5	Styrene	1	U
75-25-2	Bromoform	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
BN08S9MW002

Lab Name: EA LABORATORIES Contract: _____

Lab Code: EA ENG Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 9702974

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: VH8B2115.D

Level: (low/med) _____ Date Received: 3/25/97

% Moisture: not dec. _____ Date Analyzed: 3/29/97

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

Concentration Units: (ug/L or ug/Kg) ug/L

CAS No.	Compound		Q
95-50-1	1,2-Dichlorobenzene	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	0.7	J

FORM I VOA

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BN08S9MW002

Lab Name: EA LABORATORIES Contract: _____

Lab Code: EA ENG Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 9702974

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: VH8B2115.D

Level: (low/med) _____ Date Received: 3/25/97

% Moisture: not dec.. _____ Date Analyzed: 3/29/97

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

Concentration Units: (ug/L or ug/Kg) ug/L

CAS Number	Compound Name	RT	Est. Conc.	Q
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
BN08S9MW007
9

Lab Name: EA LABORATORIES Contract:

Lab Code: EA ENG Case No.: SAS No.: 8260 SDG No.:

CB 4/24/97

Matrix: (soil/water) WATER Lab Sample ID: 9702979

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: VH8B2131.D

Level: (low/med) Date Received: 3/25/97

% Moisture: not dec. 0 Date Analyzed: 3/30/97

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

Concentration Units: (ug/L or ug/Kg) ug/L

CAS No.	Compound		Q
74-87-3	Chloromethane	1	U
75-01-4	Vinyl Chloride	1	U
74-83-9	Bromomethane	1	U
75-00-3	Chloroethane	1	U
67-64-1	Acetone	5	U
75-35-4	1,1-Dichloroethene	1	U
75-09-2	Methylene Chloride	1	U
75-15-0	Carbon Disulfide	1	U
75-34-3	1,1-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
540-59-0	1,2-Dichloroethene (total)	1	U
67-66-3	Chloroform	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
107-06-2	1,2-Dichloroethane	1	U
71-43-2	Benzene	1	U
79-01-6	Trichloroethene	1	U
78-87-5	1,2-Dichloropropane	1	U
75-27-4	Bromodichloromethane	1	U
108-10-1	4-Methyl-2-Pentanone	5	U
10061-01-5	cis-1,3-Dichloropropene	1	U
108-88-3	Toluene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
79-00-5	1,1,2-Trichloroethane	1	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
124-48-1	Chlorodibromomethane	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylenes (total)	1	U
100-42-5	Styrene	1	U
75-25-2	Bromoform	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BN08S9MW007
9

Lab Name: EA LABORATORIES Contract:

Lab Code: EA ENG Case No.: SAS No.: 8260 SDG No.:

CB 4/24/97

Matrix: (soil/water) WATER Lab Sample ID: 9702979

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: VH8B2131.D

Level: (low/med) Date Received: 3/25/97

% Moisture: not dec. 0 Date Analyzed: 3/30/97

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

Concentration Units: (ug/L or ug/Kg) ug/L

CAS No.	Compound		Q
95-50-1	1,2-Dichlorobenzene	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U

FORM I VOA

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BN0~~8~~9S9MW007

EB 4/24/97

Lab Name: EA LABORATORIES Contract: _____

Lab Code: EA ENG Case No.: _____ SAS No.: 8260 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 9702979

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: VH8B2131.D

Level: (low/med) _____ Date Received: 3/25/97

% Moisture: not dec. 0 Date Analyzed: 3/30/97

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

Concentration Units: (ug/L or ug/Kg) ug/L

CAS Number	Compound Name	RT	Est. Conc.	Q
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030090

EPA SW846

FORM 1
METALS ANALYSIS DATA SHEET

LAB SAMPLE NUMBER
T02979

Laboratory: EA LABORATORIES

SDG No.: T02967

Matrix: WATER

Client ID: BN-09-SA-MW007 PL

Percent Solids: 0.0

Date Received: 03/25/97

Results for: TOTAL metals

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	46.8	B		P
7440-36-0	Antimony	2.0	U		~~F~~ P
7440-38-2	Arsenic	2.0	U		F
7440-39-3	Barium	227			P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	28300			P
7440-47-3	Chromium	6.0	U		P
7440-48-4	Cobalt	11.0	U		P
7440-50-8	Copper	6.0	U		P
7439-89-6	Iron	19500			P
7439-92-1	Lead	1.0	U		F
7439-95-4	Magnesium	1990			P
7439-96-5	Manganese	113		E	P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	15.0	U		P
7440-09-7	Potassium	2680	B		P
7782-49-2	Selenium	1.0	U		F
7440-22-4	Silver	4.0	U		P
7440-23-5	Sodium	3670			P
7440-28-0	Thallium	1.0	U		F
7440-62-2	Vanadium	8.0	U		P
7440-66-6	Zinc	12.0	U		P

PL 4/20/97

M = "P" ICP SW6010
M = "F" Graphite Furnace AA As by SW7060, Pb by SW7421, Se by SW7740, Tl by SW7841, Sb by 7041
M = "CV" Cold Vapor AA - waters by SW7470, soils by SW7471

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BN0~~8~~9MW006
9

Lab Name: EA LABORATORIES Contract:

Lab Code: EA ENG Case No.: SAS No.: 8260 SDG No.:

CB 4/29/97

Matrix: (soil/water) WATER Lab Sample ID: 9702978

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: VH8B2130.D

Level: (low/med) Date Received: 3/25/97

% Moisture: not dec. 0 Date Analyzed: 3/30/97

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

Concentration Units: (ug/L or ug/Kg) ug/L

CAS No.	Compound		Q
74-87-3	Chloromethane	1	U
75-01-4	Vinyl Chloride	3	
74-83-9	Bromomethane	1	U
75-00-3	Chloroethane	1	U
67-64-1	Acetone	5	U
75-35-4	1,1-Dichloroethene	1	U
75-09-2	Methylene Chloride	1	U
75-15-0	Carbon Disulfide	1	U
75-34-3	1,1-Dichloroethane	1	
78-93-3	2-Butanone	5	U
540-59-0	1,2-Dichloroethene (total)	1	U
67-66-3	Chloroform	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
107-06-2	1,2-Dichloroethane	1	U
71-43-2	Benzene	1	U
79-01-6	Trichloroethene	1	U
78-87-5	1,2-Dichloropropane	1	U
75-27-4	Bromodichloromethane	1	U
108-10-1	4-Methyl-2-Pentanone	5	U
10061-01-5	cis-1,3-Dichloropropene	1	U
108-88-3	Toluene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
79-00-5	1,1,2-Trichloroethane	1	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
124-48-1	Chlorodibromomethane	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylenes (total)	1	U
100-42-5	Styrene	1	U
75-25-2	Bromoform	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U

030078

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BN0~~8~~9S9MW006
9

Lab Name: EA LABORATORIES Contract:

Lab Code: EA ENG Case No.: SAS No.: 8260 SDG No.: CK 4/24/97

Matrix: (soil/water) WATER Lab Sample ID: 9702978

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: VH8B2130.D

Level: (low/med) Date Received: 3/25/97

% Moisture: not dec. 0 Date Analyzed: 3/30/97

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

Concentration Units: (ug/L or ug/Kg) ug/L

CAS No.	Compound		Q
95-50-1	1,2-Dichlorobenzene	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U

030079

FORM I VOA

3/90

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BN0~~8~~9S9MW006

CK 9/24/97

Lab Name: EA LABORATORIES Contract: _____

Lab Code: EA ENG Case No.: _____ SAS No.: 8260 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 9702978

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: VH8B2130.D

Level: (low/med) _____ Date Received: 3/25/97

% Moisture: not dec. 0 Date Analyzed: 3/30/97

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

Concentration Units: (ug/L or ug/Kg) ug/L

CAS Number	Compound Name	RT	Est. Conc.	Q
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030080

EPA SW846

FORM 1
METALS ANALYSIS DATA SHEET

LAB SAMPLE NUMBER T02978

Laboratory: EA LABORATORIES

SDG No.: T02967

Matrix: WATER

Client ID: BN-~~08~~ 09-S9-MW006 PC

Percent Solids: 0.0

Date Received: 03/25/97

Results for: TOTAL metals

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	170	B		P
7440-36-0	Antimony	2.0	U		~~F~~ P
7440-38-2	Arsenic	2.0	U	W	F
7440-39-3	Barium	666			P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	52600			P
7440-47-3	Chromium	6.0	U		P
7440-48-4	Cobalt	11.0	U		P
7440-50-8	Copper	6.0	U		P
7439-89-6	Iron	1180			P
7439-92-1	Lead	1.0	U		F
7439-95-4	Magnesium	3460			P
7439-96-5	Manganese	165		E	P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	15.0	U		P
7440-09-7	Potassium	4950	B		P
7782-49-2	Selenium	1.0	U		F
7440-22-4	Silver	4.0	U		P
7440-23-5	Sodium	14700			P
7440-28-0	Thallium	1.0	U		F
7440-62-2	Vanadium	8.0	U		P
7440-66-6	Zinc	12.0	U		P

PC 4/23/97

M = "P" ICP SW6010
M = "F" Graphite Furnace AA As by SW7060, Pb by SW7421, Se by SW7740, Tl by SW7841, Sb by 7041
M = "CV" Cold Vapor AA - waters by SW7470, soils by SW7471

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
BN08S9MWXD1
9

Lab Name: EA LABORATORIES Contract:

Lab Code: EA ENG Case No.: SAS No.: 8260 SDG No.: 4/24/97

Matrix: (soil/water) WATER Lab Sample ID: 9702982

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: VH8B2134.D

Level: (low/med) Date Received: 3/25/97

% Moisture: not dec. 0 Date Analyzed: 3/30/97

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

Concentration Units: (ug/L or ug/Kg) ug/L

CAS No.	Compound		Q
74-87-3	Chloromethane	1	U
75-01-4	Vinyl Chloride	2	
74-83-9	Bromomethane	1	U
75-00-3	Chloroethane	1	U
67-64-1	Acetone	5	U
75-35-4	1,1-Dichloroethene	1	U
75-09-2	Methylene Chloride	1	U
75-15-0	Carbon Disulfide	1	U
75-34-3	1,1-Dichloroethane	1	
78-93-3	2-Butanone	5	U
540-59-0	1,2-Dichloroethene (total)	1	U
67-66-3	Chloroform	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
107-06-2	1,2-Dichloroethane	1	U
71-43-2	Benzene	1	U
79-01-6	Trichloroethene	1	U
78-87-5	1,2-Dichloropropane	1	U
75-27-4	Bromodichloromethane	1	U
108-10-1	4-Methyl-2-Pentanone	5	U
10061-01-5	cis-1,3-Dichloropropene	1	U
108-88-3	Toluene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
79-00-5	1,1,2-Trichloroethane	1	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
124-48-1	Chlorodibromomethane	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylenes (total)	1	U
100-42-5	Styrene	1	U
75-25-2	Bromoform	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U

030115

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BN0~~8~~9MWXD1
9

Lab Name: EA LABORATORIES Contract:

Lab Code: EA ENG Case No.: SAS No.: 8260 SDG No.: JAS 4/24/97

Matrix: (soil/water) WATER Lab Sample ID: 9702982

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: VH8B2134.D

Level: (low/med) Date Received: 3/25/97

% Moisture: not dec. 0 Date Analyzed: 3/30/97

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
95-50-1	1,2-Dichlorobenzene	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U

030116

FORM I VOA

3/90

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BN0~~8~~9S9MWXD1

CLS 4/24/97

Lab Name: EA LABORATORIES Contract: _____

Lab Code: EA ENG Case No.: _____ SAS No.: 8260 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 9702982

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: VH8B2134.D

Level: (low/med) _____ Date Received: 3/25/97

% Moisture: not dec. 0 Date Analyzed: 3/30/97

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

Concentration Units: (ug/L or ug/Kg) ug/L

CAS Number	Compound Name	RT	Est. Conc.	Q
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030117

EPA SW846

FORM 1
METALS ANALYSIS DATA SHEET

LAB SAMPLE NUMBER

T02982

Laboratory: EA LABORATORIES

SDG No.: T02967

Matrix: WATER

Client ID: BN-~~08~~ 09-59-MWXD1 pc

Percent Solids: 0.0

Date Received: 03/25/97

Results for: TOTAL metals

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	239	B		P
7440-36-0	Antimony	2.0	U		~~P~~ P
7440-38-2	Arsenic	3.6	B		F
7440-39-3	Barium	659			P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	53500			P
7440-47-3	Chromium	6.0	U		P
7440-48-4	Cobalt	11.0	U		P
7440-50-8	Copper	6.0	U		P
7439-89-6	Iron	1300			P
7439-92-1	Lead	1.6	B		F
7439-95-4	Magnesium	3460			P
7439-96-5	Manganese	142		E	P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	15.0	U		P
7440-09-7	Potassium	4990	B		P
7782-49-2	Selenium	1.0	U		F
7440-22-4	Silver	4.0	U		P
7440-23-5	Sodium	14800			P
7440-28-0	Thallium	1.2			F
7440-62-2	Vanadium	8.0	U		P
7440-66-6	Zinc	12.0	U		P

PC 4/23/97

M = "P" ICP SW6010
M = "F" Graphite Furnace AA As by SW7060, Pb by SW7421, Se by SW7740, Tl by SW7841, Sb by 7041
M = "CV" Cold Vapor AA - waters by SW7470, soils by SW7471

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BN0~~8~~S9MW008
9

Lab Name: EA LABORATORIES Contract: _____

Lab Code: EA ENG Case No.: _____ SAS No.: 8260 SDG No.: _____

CB 9/24/97

Matrix: (soil/water) WATER Lab Sample ID: 9702980

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: VH8B2132.D

Level: (low/med) _____ Date Received: 3/25/97

% Moisture: not dec. 0 Date Analyzed: 3/30/97

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

Concentration Units: (ug/L or ug/Kg) ug/L

CAS No.	Compound	ug/L	Q
74-87-3	Chloromethane	1	U
75-01-4	Vinyl Chloride	1	U
74-83-9	Bromomethane	1	U
75-00-3	Chloroethane	1	U
67-64-1	Acetone	5	U
75-35-4	1,1-Dichloroethene	1	U
75-09-2	Methylene Chloride	1	U
75-15-0	Carbon Disulfide	1	U
75-34-3	1,1-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
540-59-0	1,2-Dichloroethene (total)	1	U
67-66-3	Chloroform	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
107-06-2	1,2-Dichloroethane	1	U
71-43-2	Benzene	1	U
79-01-6	Trichloroethene	1	U
78-87-5	1,2-Dichloropropane	1	U
75-27-4	Bromodichloromethane	1	U
108-10-1	4-Methyl-2-Pentanone	5	U
10061-01-5	cis-1,3-Dichloropropene	1	U
108-88-3	Toluene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
79-00-5	1,1,2-Trichloroethane	1	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
124-48-1	Chlorodibromomethane	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylenes (total)	1	U
100-42-5	Styrene	1	U
75-25-2	Bromoform	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U

FORM I VOA

030097
3/90

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BN0~~8~~9S9MW008
9

Lab Name: EA LABORATORIES Contract:

Lab Code: EA ENG Case No.: SAS No.: 8260 SDG No.:

CB 4/24/97

Matrix: (soil/water) WATER Lab Sample ID: 9702980

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: VH8B2132.D

Level: (low/med) Date Received: 3/25/97

% Moisture: not dec. 0 Date Analyzed: 3/30/97

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

Concentration Units: (ug/L or ug/Kg) ug/L

CAS No.	Compound		Q
95-50-1	1,2-Dichlorobenzene	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BN0~~8~~9S9MW008

08 4/24/97

Lab Name: EA LABORATORIES Contract: _____

Lab Code: EA ENG Case No.: _____ SAS No.: 8260 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 9702980

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: VH8B2132.D

Level: (low/med) _____ Date Received: 3/25/97

% Moisture: not dec. 0 Date Analyzed: 3/30/97

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

Concentration Units: (ug/L or ug/Kg) ug/L

CAS Number	Compound Name	RT	Est. Conc.	Q
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EPA SW846

FORM 1
METALS ANALYSIS DATA SHEET

LAB SAMPLE NUMBER

T02980

Laboratory: EA LABORATORIES

SDG No.: T02967

Matrix: WATER

Client ID: BW-~~08~~ 09-59-MW008 PC

Percent Solids: 0.0

Date Received: 03/25/97

Results for: TOTAL metals

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	119	B		P
7440-36-0	Antimony	2.0	U		~~F~~ P
7440-38-2	Arsenic	2.0	U		F
7440-39-3	Barium	30.2			P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	37000			P
7440-47-3	Chromium	19.4	B		P
7440-48-4	Cobalt	11.0	U		P
7440-50-8	Copper	6.0	U		P
7439-89-6	Iron	1060			P
7439-92-1	Lead	1.0	U		F
7439-95-4	Magnesium	2470			P
7439-96-5	Manganese	8.1	B	E	P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	15.0	U		P
7440-09-7	Potassium	5950			P
7782-49-2	Selenium	1.0	U		F
7440-22-4	Silver	4.0	U		P
7440-23-5	Sodium	27300			P
7440-28-0	Thallium	1.0	U		F
7440-62-2	Vanadium	8.0	U		P
7440-66-6	Zinc	12.0	U		P

PL 4/23/97

M = "P" ICP SW6010
M = "F" Graphite Furnace AA As by SW7060, Pb by SW7421, Se by SW7740, Tl by SW7841, Sb by 7041
M = "CV" Cold Vapor AA - waters by SW7470, soils by SW7471

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
BN08S9QT006

Lab Name: EA LABORATORIES Contract: _____

Lab Code: EA ENG Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 9702973

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: VH8B2114.D

Level: (low/med) _____ Date Received: 3/25/97

% Moisture: not dec. _____ Date Analyzed: 3/29/97

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	1	U
75-01-4	Vinyl Chloride	1	U
74-83-9	Bromomethane	1	U
75-00-3	Chloroethane	1	U
67-64-1	Acetone	5	U
75-35-4	1,1-Dichloroethene	1	U
75-09-2	Methylene Chloride	1	U
75-15-0	Carbon Disulfide	1	U
75-34-3	1,1-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
540-59-0	1,2-Dichloroethene (total)	1	U
67-66-3	Chloroform	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
107-06-2	1,2-Dichloroethane	1	U
71-43-2	Benzene	1	U
79-01-6	Trichloroethene	1	U
78-87-5	1,2-Dichloropropane	1	U
75-27-4	Bromodichloromethane	1	U
108-10-1	4-Methyl-2-Pentanone	5	U
10061-01-5	cis-1,3-Dichloropropene	1	U
108-88-3	Toluene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
79-00-5	1,1,2-Trichloroethane	1	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
124-48-1	Chlorodibromomethane	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylenes (total)	1	U
100-42-5	Styrene	1	U
75-25-2	Bromoform	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BN08S9QT006

Lab Name: EA LABORATORIES Contract: _____

Lab Code: EA ENG Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 9702973

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: VH8B2114.D

Level: (low/med) _____ Date Received: 3/25/97

% Moisture: not dec. _____ Date Analyzed: 3/29/97

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
95-50-1	1,2-Dichlorobenzene	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BN08S9QT006

Lab Name: EA LABORATORIES Contract: _____

Lab Code: EA ENG Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 9702973

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: VH8B2114.D

Level: (low/med) _____ Date Received: 3/25/97

% Moisture: not dec. _____ Date Analyzed: 3/29/97

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

Concentration Units: (ug/L or ug/Kg) ug/L

CAS Number	Compound Name	RT	Est. Conc.	Q
1.				
2.				
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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	
S9-SW003	SW-010
S9-SW002	SW-011
S9-SW001	SW-012
Trip Blank	
S9-QT005	QT-005
Equipment Rinsate Blank	
S9-QS003	QS-003
Source Water Blank	
S1-QD001	QD-001

Chain of Custody Record

EA Laboratories
19 Loveton Circle
Sparks, MD 21152
Telephone: (410) 771-4920
Fax: (410) 771-4407

Company Name: EA Engineering
Project No. 29600047
Dept.: 5300 Task: 7301
Sample Storage Location: I10/VOA Walkin
Page 1 of 1 Report #: 970392

Project Manager or Contact: Mike Battle
Phone: 914-565-8100
Project Name: LTMP Event 8
ATO Number:

Report Deliv rables: 1 2 3 4 D E
EDD: Yes/No QPRO Pro
DUE TO CLIENT: Hardcopy due 4/2/97
EDDs due 5/6/97

Parameters/Method Numbers for Analysis

Date	Time	Water	Soil	Sample Identification 19 Characters	No. of Containers	TCL VOC by 8260 plus TICs	TAL Elements by 6010/7470/7471	SVOC by 8270 + TICs									EA Labs Accession Number	Remarks
3/21/97	0800	X		BN-08-S9-QS003 3	5	X	X	X	KU 3/22/97								9702924	LPM: MEA
3/21/97	0815	X		BN-08-S9-QS004 5	3	X	X	X	KU 3/22/97								9702925	COC 0000439
3/21/97	0908	X		BN-08-S9-SW001	2	X											9702926	Samples start SDG
3/21/97	0927	X		BN-08-S9-SW002	2	X											9702927	# BN-08-S9-QS003,
3/21/97	0956	X		BN-08-S9-SW003	2	X											9702928	all samples batched
				~~BN-08-S9-SW004~~		~~BX~~											—	under that SDG.
3/21/97	1025	X		BN-08-S9-LT001	8	X	X			MS/MSD							9702929	SDG ends with
3/21/97	—	X		BN-08-S9-SWXD1	3	X	X										9702930	Sample BN-08-S9-
3/21/97	0800	X		BN-08-S9-QT005	2	X											9702931	SWXD1.

Following Project Summary Requirements we must report to MDLs

Temp blank included
L11338
VOC by 8260 plus library search
TAL Elements
Refer to Table 7-1 in QAPP.
SVOCs by 8270 plus library Search.
NCL 4-1215

Samples by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
Brian Anderson	3/21/97 1025				

Relinquished by: (Signature)	Date/Time	Received by Laboratory: (Signature)	Date/Tim	Airbill Number:	Sample Shipped by: (Circle)
Brian W. Anderson	3/21/97 1530	Archer	3/22/97 1030	3161399861	Fed Ex. Puro. UPS Hand Carried Other:

Cooler Temp. 1.7 C pH: X Yes ☐ No Comments: C2 Custody Seals Intact X Yes ☐ N

NOTE: Please indicate method number for analyses requested. This will help clarify any questions with laboratory techniques.

WHITE—EA Laboratories YELLOW—EA Laborat ries PINK—Project Manager *Shaded Areas for Lab Use Only*

1 of 1

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
BN08S9SW003

Lab Name: EA LABORATORIES Contract: _____

Lab Code: EA ENG Case No.: _____ SAS No.: 8260 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 9702928

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: VH8B2109.D

Level: (low/med) _____ Date Received: 3/22/97

% Moisture: not dec. _____ Date Analyzed: 3/29/97

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

Concentration Units: (ug/L or ug/Kg) ug/L

CAS No.	Compound		Q
74-87-3	Chloromethane	1	U
75-01-4	Vinyl Chloride	1	U
74-83-9	Bromomethane	1	U
75-00-3	Chloroethane	1	U
67-64-1	Acetone	5	U
75-35-4	1,1-Dichloroethene	1	U
75-09-2	Methylene Chloride	1	U
75-15-0	Carbon Disulfide	2	
75-34-3	1,1-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
540-59-0	1,2-Dichloroethene (total)	1	U
67-66-3	Chloroform	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
107-06-2	1,2-Dichloroethane	1	U
71-43-2	Benzene	1	U
79-01-6	Trichloroethene	1	U
78-87-5	1,2-Dichloropropane	1	U
75-27-4	Bromodichloromethane	1	U
108-10-1	4-Methyl-2-Pentanone	5	U
10061-01-5	cis-1,3-Dichloropropene	1	U
108-88-3	Toluene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
79-00-5	1,1,2-Trichloroethane	1	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
124-48-1	Chlorodibromomethane	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylenes (total)	1	U
100-42-5	Styrene	1	U
75-25-2	Bromoform	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BN08S9SW003

Lab Name: EA LABORATORIES Contract:

Lab Code: EA ENG Case No.: SAS No.: 8260 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 9702928

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: VH8B2109.D

Level: (low/med) Date Received: 3/22/97

% Moisture: not dec. Date Analyzed: 3/29/97

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

Concentration Units: (ug/L or ug/Kg) ug/L

CAS No.	Compound		Q
95-50-1	1,2-Dichlorobenzene	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BN08S9SW003

Lab Name: EA LABORATORIES Contract: _____

Lab Code: EA ENG Case No.: _____ SAS No.: 8260 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 9702928

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: VH8B2109.D

Level: (low/med) _____ Date Received: 3/22/97

% Moisture: not dec. _____ Date Analyzed: 3/29/97

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

Concentration Units: (ug/L or ug/Kg) ug/L

CAS Number	Compound Name	RT	Est. Conc.	Q
1.				
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1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BN08S9SW002

Lab Name: EA LABORATORIES Contract: _____

Lab Code: EA ENG Case No.: _____ SAS No.: 8260 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 9702927

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: VH8B2108.D

Level: (low/med) _____ Date Received: 3/22/97

% Moisture: not dec. _____ Date Analyzed: 3/29/97

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

Concentration Units: (ug/L or ug/Kg) ug/L

CAS No.	Compound		Q
74-87-3	Chloromethane	1	U
75-01-4	Vinyl Chloride	1	U
74-83-9	Bromomethane	1	U
75-00-3	Chloroethane	1	U
67-64-1	Acetone	19	
75-35-4	1,1-Dichloroethene	1	U
75-09-2	Methylene Chloride	1	U
75-15-0	Carbon Disulfide	1	U
75-34-3	1,1-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
540-59-0	1,2-Dichloroethene (total)	1	U
67-66-3	Chloroform	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
107-06-2	1,2-Dichloroethane	1	U
71-43-2	Benzene	1	U
79-01-6	Trichloroethene	1	U
78-87-5	1,2-Dichloropropane	1	U
75-27-4	Bromodichloromethane	1	U
108-10-1	4-Methyl-2-Pentanone	5	U
10061-01-5	cis-1,3-Dichloropropene	1	U
108-88-3	Toluene	3	
10061-02-6	trans-1,3-Dichloropropene	1	U
79-00-5	1,1,2-Trichloroethane	1	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	
124-48-1	Chlorodibromomethane	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	0.5	J
1330-20-7	Xylenes (total)	5	
100-42-5	Styrene	1	U
75-25-2	Bromoform	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BN08S9SW002

Lab Name: EA LABORATORIES Contract: _____

Lab Code: EA ENG Case No.: _____ SAS No.: 8260 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 9702927

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: VH8B2108.D

Level: (low/med) _____ Date Received: 3/22/97

% Moisture: not dec. _____ Date Analyzed: 3/29/97

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

Concentration Units: (ug/L or ug/Kg) ug/L

CAS No.	Compound		Q
95-50-1	1,2-Dichlorobenzene	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U

FORM I VOA

3/90

030046

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BN08S9SW002

Lab Name: EA LABORATORIES Contract:

Lab Code: EA ENG Case No.: SAS No.: 8260 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 9702927

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: VH8B2108.D

Level: (low/med) Date Received: 3/22/97

% Moisture: not dec. Date Analyzed: 3/29/97

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

Number TICs found: 2

Concentration Units: (ug/L or ug/Kg) ug/L

CAS Number	Compound Name	RT	Est. Conc.	Q
1.	Unknown Hydrocarbon	23.80	1	J
2. 95-36-3	1,2,4-Trimethylbenzene	24.69	1	JN
3.				
4.				
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BN08S9SW001

Lab Name: EA LABORATORIES Contract:

Lab Code: EA ENG Case No.: SAS No.: 8260 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 9702926

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: VH8B2107.D

Level: (low/med) Date Received: 3/22/97

% Moisture: not dec. Date Analyzed: 3/29/97

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

Concentration Units: (ug/L or ug/Kg) ug/L

CAS No.	Compound		Q
74-87-3	Chloromethane	1	U
75-01-4	Vinyl Chloride	1	U
74-83-9	Bromomethane	1	U
75-00-3	Chloroethane	1	U
67-64-1	Acetone	19	
75-35-4	1,1-Dichloroethene	1	U
75-09-2	Methylene Chloride	1	U
75-15-0	Carbon Disulfide	1	U
75-34-3	1,1-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
540-59-0	1,2-Dichloroethene (total)	1	U
67-66-3	Chloroform	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
107-06-2	1,2-Dichloroethane	1	U
71-43-2	Benzene	1	U
79-01-6	Trichloroethene	1	U
78-87-5	1,2-Dichloropropane	1	U
75-27-4	Bromodichloromethane	1	U
108-10-1	4-Methyl-2-Pentanone	5	U
10061-01-5	cis-1,3-Dichloropropene	1	U
108-88-3	Toluene	2	
10061-02-6	trans-1,3-Dichloropropene	1	U
79-00-5	1,1,2-Trichloroethane	1	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	0.9	J
124-48-1	Chlorodibromomethane	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	0.4	J
1330-20-7	Xylenes (total)	3	
100-42-5	Styrene	1	U
75-25-2	Bromoform	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BN08S9SW001

Lab Name: EA LABORATORIES Contract:

Lab Code: EA ENG Case No.: SAS No.: 8260 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 9702926

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: VH8B2107.D

Level: (low/med) Date Received: 3/22/97

% Moisture: not dec. Date Analyzed: 3/29/97

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

Concentration Units: (ug/L or ug/Kg) ug/L

CAS No.	Compound		Q
95-50-1	1,2-Dichlorobenzene	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BN08S9SW001

Lab Name: EA LABORATORIES Contract: _____

Lab Code: EA ENG Case No.: _____ SAS No.: 8260 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 9702926

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: VH8B2107.D

Level: (low/med) _____ Date Received: 3/22/97

% Moisture: not dec. _____ Date Analyzed: 3/29/97

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

Number TICs found: 1

Concentration Units: (ug/L or ug/Kg) ug/L

CAS Number	Compound Name	RT	Est. Conc.	Q
1. 95-36-3	1,2,4-Trimethylbenzene	24.69	1	JN
2.				
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BN08S9QT005

Lab Name: EA LABORATORIES Contract:

Lab Code: EA ENG Case No.: SAS No.: 8260 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 9702931

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: VH8B2104.D

Level: (low/med) Date Received: 3/22/97

% Moisture: not dec. Date Analyzed: 3/29/97

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	1	U
75-01-4	Vinyl Chloride	1	U
74-83-9	Bromomethane	1	U
75-00-3	Chloroethane	1	U
67-64-1	Acetone	5	U
75-35-4	1,1-Dichloroethene	1	U
75-09-2	Methylene Chloride	1	U
75-15-0	Carbon Disulfide	1	U
75-34-3	1,1-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
540-59-0	1,2-Dichloroethene (total)	1	U
67-66-3	Chloroform	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
107-06-2	1,2-Dichloroethane	1	U
71-43-2	Benzene	1	U
79-01-6	Trichloroethene	1	U
78-87-5	1,2-Dichloropropane	1	U
75-27-4	Bromodichloromethane	1	U
108-10-1	4-Methyl-2-Pentanone	5	U
10061-01-5	cis-1,3-Dichloropropene	1	U
108-88-3	Toluene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
79-00-5	1,1,2-Trichloroethane	1	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
124-48-1	Chlorodibromomethane	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylenes (total)	1	U
100-42-5	Styrene	1	U
75-25-2	Bromoform	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BN08S9QT005

Lab Name: EA LABORATORIES Contract:

Lab Code: EA ENG Case No.: SAS No.: 8260 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 9702931

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: VH8B2104.D

Level: (low/med) Date Received: 3/22/97

% Moisture: not dec. Date Analyzed: 3/29/97

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

Concentration Units: (ug/L or ug/Kg) ug/L

CAS No.	Compound		Q
95-50-1	1,2-Dichlorobenzene	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U

IE

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BN08S9QT005

Lab Name: EA LABORATORIES Contract: _____

Lab Code: EA ENG Case No.: _____ SAS No.: 8260 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 9702931

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: VH8B2104.D

Level: (low/med) _____ Date Received: 3/22/97

% Moisture: not dec. _____ Date Analyzed: 3/29/97

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

Concentration Units: (ug/L or ug/Kg) ug/L

CAS Number	Compound Name	RT	Est. Conc.	Q
1.				
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BN08S9QS003

Lab Name: EA LABORATORIES Contract:

Lab Code: EA ENG Case No.: SAS No.: 8260 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 9702924

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: VH8B2105.D

Level: (low/med) Date Received: 3/22/97

% Moisture: not dec. Date Analyzed: 3/29/97

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

Concentration Units: (ug/L or ug/Kg) ug/L

CAS No.	Compound		Q
74-87-3	Chloromethane	1	U
75-01-4	Vinyl Chloride	1	U
74-83-9	Bromomethane	1	U
75-00-3	Chloroethane	1	U
67-64-1	Acetone	5	U
75-35-4	1,1-Dichloroethene	1	U
75-09-2	Methylene Chloride	2	
75-15-0	Carbon Disulfide	1	U
75-34-3	1,1-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
540-59-0	1,2-Dichloroethene (total)	1	U
67-66-3	Chloroform	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
107-06-2	1,2-Dichloroethane	1	U
71-43-2	Benzene	1	U
79-01-6	Trichloroethene	1	U
78-87-5	1,2-Dichloropropane	1	U
75-27-4	Bromodichloromethane	1	U
108-10-1	4-Methyl-2-Pentanone	5	U
10061-01-5	cis-1,3-Dichloropropene	1	U
108-88-3	Toluene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
79-00-5	1,1,2-Trichloroethane	1	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
124-48-1	Chlorodibromomethane	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylenes (total)	1	U
100-42-5	Styrene	1	U
75-25-2	Bromoform	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BN08S9QS003

Lab Name: EA LABORATORIES Contract:

Lab Code: EA ENG Case No.: SAS No.: 8260 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 9702924

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: VH8B2105.D

Level: (low/med) Date Received: 3/22/97

% Moisture: not dec. Date Analyzed: 3/29/97

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

Concentration Units: (ug/L or ug/Kg) ug/L

CAS No.	Compound		Q
95-50-1	1,2-Dichlorobenzene	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BN08S9QS003

Lab Name: EA LABORATORIES Contract: _____

Lab Code: EA ENG Case No.: _____ SAS No.: 8260 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 9702924

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: VH8B2105.D

Level: (low/med) _____ Date Received: 3/22/97

% Moisture: not dec. _____ Date Analyzed: 3/29/97

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

Concentration Units: (ug/L or ug/Kg) ug/L

CAS Number	Compound Name	RT	Est. Conc.	Q
1.				
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BN08S1QD001

Lab Name: EA LABORATORIES Contract:

Lab Code: EA ENG Case No.: SAS No.: 8260 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 9702551

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: VA1B1818.D

Level: (low/med) Date Received: 3/13/97

% Moisture: not dec. Date Analyzed: 3/16/97

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

Concentration Units: (ug/L or ug/Kg) ug/L

CAS No.	Compound		Q
74-87-3	Chloromethane	1	U
75-01-4	Vinyl Chloride	1	U
74-83-9	Bromomethane	1	U
75-00-3	Chloroethane	1	U
67-64-1	Acetone	5	U
75-35-4	1,1-Dichloroethene	1	U
75-09-2	Methylene Chloride	1	
75-15-0	Carbon Disulfide	1	U
75-34-3	1,1-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
540-59-0	1,2-Dichloroethene (total)	1	U
67-66-3	Chloroform	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
107-06-2	1,2-Dichloroethane	1	U
71-43-2	Benzene	1	U
79-01-6	Trichloroethene	1	U
78-87-5	1,2-Dichloropropane	1	U
75-27-4	Bromodichloromethane	1	U
108-10-1	4-Methyl-2-Pentanone	5	U
10061-01-5	cis-1,3-Dichloropropene	1	U
108-88-3	Toluene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
79-00-5	1,1,2-Trichloroethane	1	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
124-48-1	Chlorodibromomethane	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylenes (total)	1	U
100-42-5	Styrene	1	U
75-25-2	Bromoform	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
BN08S1QD001

Lab Name: EA LABORATORIES Contract:

Lab Code: EA ENG Case No.: SAS No.: 8260 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 9702551

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: VA1B1818.D

Level: (low/med) Date Received: 3/13/97

% Moisture: not dec. Date Analyzed: 3/16/97

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
95-50-1	1,2-Dichlorobenzene	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BN08S1QD001

Lab Name: EA LABORATORIES Contract:

Lab Code: EA ENG Case No.: SAS No.: 8260 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 9702551

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: VA1B1818.D

Level: (low/med) Date Received: 3/13/97

% Moisture: not dec. Date Analyzed: 3/16/97

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

Concentration Units: (ug/L or ug/Kg) ug/L

CAS Number	Compound Name	RT	Est. Conc.	Q
1.				
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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	
S9-SD003	SED-010
S9-SD002	SED-011
S9-SDXD1	SED-011 (DUP)
S9-SD001	SED-012
Trip Blank	
S9-QT-005	QT-005
Rinsate Blank	
S9-QS-004	QS-004
Source Water Blank	
S1-QD-001	QD-001

BRUNSWICK NAVAL AIR STATION LONG-TERM MONITORING PLAN
FIELD SDG TRACKING

SDG No.: BN-08-S9-SD001		Site 9 (Sediment)	
Sample Location No.	**Sample ID**	**Date Sampled**	**QC**
1. SD-012	BN-08-S9-SD001	3/21/97 0925	MS/MSD
2 SD-011	BN-08-S9-SD002	3/21/97 0934	
3. SD-011	BN-08-S9-SDXD1	3/21/97 0934	Duplicate
4. SD-010	BN-08-S9-SD003	3/21/97 1000	
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Comments: No SDG shall exceed 20 samples. All samples that are duplicated should be entered as two samples towards the SDG sample total. MS/MSD samples are entered on a separate line than the sample on the chain-of-custody.

Example:
(DUPLICATE ENTRIES ON CHAIN-OF- CUSTODY)
1. BN-03-EP-MW001
2. BN-03-EP-MW002
3. BN-03-EP-MWXD1

MS/MSD ENTRIES ON CHAIN-OF-CUSTODY:
Example:
1. BN-03-EP-MW003
2. BN-03-EP-MW003 MS/MSD

QC: MS/MSD
Duplicate
Trip Blank

Company Name	Project Manager or Contact:
EA Engineering	Mike Battle
Project No. 2960047	Phone: 914-565-8100
Dept.: 5300 Task: 7301	Project Name: LTMP Event 8
Sample Storage Location: I10/VOA Walkin	ATO Number:
Page 1 of 1	Report #: 970392

Chain of Custody Record

EA Laboratories
19 Loveton Circle
Sparks, MD 21152
Telephone: (410) 771-4920
Fax: (410) 771-4407

Report Deliverables: 1 2 3 (4) (D) E

EDD: (Yes)/No QPRO Pro

DUE TO CLIENT: Hardcopy due 4/22/97 EDDs due 5/6/97

Parameter Method Numbers for Analysis

Date	Time	Water	Soil	Sample Identification 19 Characters	No. of Containers	VOC by 8260 plus TICs	TAL Elements	SVOC by 8270 + TICs		EA Labs Accession Number	Remarks
3/21/97	0800	X		BN-08-S9-QS003 3	5	X	X	X	pu 3/22/97	9702924	LPM: MEA
3/21/97	0815	X		BN-08-S9-QS004 5	3	X	X	X	ku 3/22/97	9702925	COC0000439
3/21/97	0908	X		BN-08-S9-SW001	2	X				9702926	Samples start SDG
3/21/97	0927	X		BN-08-S9-SW002	2	X				9702927	# BN-08-S9-QS003,
3/21/97	0956	X		BN-08-S9-SW003	2	X				9702928	all samples batched
				~~BN-08-S9-SW004~~		Bt				—	under that SDG.
3/21/97	1025	X		BN-08-S9-LT001	8	X	X		MS/MSD	9702929	SDG ends with
3/21/97	—	X		BN-08-S9-SWXD1	3	X	X			9702930	sample BN-08-S9-
3/21/97	0800	X		BN-08-S9-QT005	2	X				9702931	SWXD1.

Follow Project Summary Requirements
We must report to MDLs

Temp blank included
L11338
VOC by 8260 plus library search
TAL Elements by
Refer to Table 7-1 in QAPP.
SVOCs by 8270 plus library search.
NCL 4-1215

Samples by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
Brian Anderson	3/21/97 1025				
Relinquished by: (Signature)	**Date/Time**	**Received by Laboratory: (Signature)**	**Date/Time**	**Airbill Number:**	
Brian W. Anderson	3/21/97 1530	Archer	3/22/97 1030	3161399861	

Sample Shipped by: (Circle) (Fed Ex.) Puro. UPS Hand Carried Other:

Cool r Temp. 1.7 C pH: [X] Yes [ ] No Comments: C2 Custody Seals Intact [X] Yes [ ] No

NOTE: Please indicate method number for analyses requested. This will help clarify any questions with laboratory techniques.

WHITE—EA Laboratories YELLOW—EA Laboratori s PINK—Project Manag r

Shaded Areas for Lab Use Only

Chain of Custody Record

EA Laboratories
19 Loveton Circle
Sparks, MD 21152
Telephone: (410) 771-4920
Fax: (410) 771-4407

Company Name: EA Engineering
Project No. 2960047J
Dept.: 5300 Task: 7301
Sample Storage Location: I10
Page 1 of 1
Report #: 970393

Project Manager or Contact: Mike Battle
Phone: 914-565-8100
Project Name: Brunswick LTMP Event 8
ATO Number:

Parameters/Method Numbers for Analysis

Report Deliverables: 1 2 3 4 D E
EDD: Yes/No DTRO PO
DUE TO CLIENT: Hard copy due 4/22/97
EDD's due 5/2/97

Date	Time	Water	Soil	Sample Identification 19 Characters	No. of Containers	VOC by 8260 plus TICs	SVOC by 8270		EA Labs Accession Number	Remarks
3/21/97	0915		X	BN-08-S9-SD001	4	X	X	MS/MSD	9702932	LPM: MEA
3/21/97	0934		X	BN-08-S9-SD002	2	X	X		9702933	
3/21/97	1000		X	BN-08-S9-SD003	2	X	X		9702934	Start of SDG# BN-
3/21/97	—		X	BN-08-S9-SDXD1	2	X	X		9702935	08-S9-SD001. all samples
										batched under that
										SDG#. SDG ends
										with BN-08-S9-SD
										XD1.
										COC0000440
				Report to MDL's						
				Follow Project Summary						VOC by 8260 plus
				Requirements						library search.
				We must do MS/MSD on Client						SVOCs by EPA
				Sample BN-08-S9-SD001						8270. plus
										library search.
										L11337
										Temp blank included

Samples by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
Brian D. Anderson	3/21/97 1100				

Relinquished by: (Signature)	Date/Time	Received by Laboratory: (Signature)	Date/Time	Airbill Number:	Sample Shipped by: (Circle)
Brian Anderson	3/21/97 1530	S Archer	3/22/97 1030	3161399861	Fed Ex Puro. UPS

Cooler Temp. 1.7-2 C pH: ☐ Yes ☒ No Comments: Custody Seals Intact ☒ Yes ☐ No

Hand Carried
Other:

NOTE: Please indicate method number for analyses requested. This will help clarify any questions with laboratory techniques.

WHITE—EA Laboratories YELLOW—EA Laboratories PINK—Project Manager *Shaded Areas for Lab Use Only*

100280

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BN08S9SD003

Lab Name: EA LABORATORIES Contract: _____

Lab Code: EA ENG Case No.: _____ SAS No.: 8260 SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 9702934

Sample wt/vol: 5.0 (g/mL) G Lab File ID: VA1B2178.D

Level: (low/med) LOW Date Received: 3/22/97

% Moisture: not dec. 29 Date Analyzed: 4/2/97

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

Concentration Units: (ug/L or ug/Kg) ug/Kg

CAS No.	Compound		Q
74-87-3	Chloromethane	7	U
75-01-4	Vinyl Chloride	7	U
74-83-9	Bromomethane	7	U
75-00-3	Chloroethane	7	U
67-64-1	Acetone	14	U
75-35-4	1,1-Dichloroethene	7	U
75-09-2	Methylene Chloride	7	U
75-15-0	Carbon Disulfide	7	U
75-34-3	1,1-Dichloroethane	7	U
78-93-3	2-Butanone	14	U
540-59-0	1,2-Dichloroethene (total)	17	
67-66-3	Chloroform	7	U
71-55-6	1,1,1-Trichloroethane	7	U
56-23-5	Carbon Tetrachloride	7	U
107-06-2	1,2-Dichloroethane	7	U
71-43-2	Benzene	7	U
79-01-6	Trichloroethene	4	J
78-87-5	1,2-Dichloropropane	7	U
75-27-4	Bromodichloromethane	7	U
108-10-1	4-Methyl-2-Pentanone	14	U
10061-01-5	cis-1,3-Dichloropropene	7	U
108-88-3	Toluene	7	U
10061-02-6	trans-1,3-Dichloropropene	7	U
79-00-5	1,1,2-Trichloroethane	7	U
591-78-6	2-Hexanone	14	U
127-18-4	Tetrachloroethene	7	U
124-48-1	Chlorodibromomethane	7	U
108-90-7	Chlorobenzene	7	U
100-41-4	Ethylbenzene	7	U
1330-20-7	Xylenes (total)	7	U
100-42-5	Styrene	7	U
75-25-2	Bromoform	7	U
79-34-5	1,1,2,2-Tetrachloroethane	7	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BN08S9SD003

Lab Name: EA LABORATORIES Contract: _____

Lab Code: EA ENG Case No.: _____ SAS No.: 8260 SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 9702934

Sample wt/vol: 5.0 (g/mL) G Lab File ID: VA1B2178.D

Level: (low/med) LOW Date Received: 3/22/97

% Moisture: not dec. 29 Date Analyzed: 4/2/97

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

Concentration Units: (ug/L or ug/Kg) ug/Kg

CAS No.	Compound		Q
95-50-1	1,2-Dichlorobenzene	7	U
541-73-1	1,3-Dichlorobenzene	7	U
106-46-7	1,4-Dichlorobenzene	7	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BN08S9SD003

Lab Name: EA LABORATORIES Contract:

Lab Code: EA ENG Case No.: SAS No.: 8260 SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: 9702934

Sample wt/vol: 5.0 (g/mL) G Lab File ID: VA1B2178.D

Level: (low/med) LOW Date Received: 3/22/97

% Moisture: not dec. 29 Date Analyzed: 4/2/97

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

Concentration Units: (ug/L or ug/Kg) ug/Kg

CAS Number	Compound Name	RT	Est. Conc.	Q
1.				
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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO:

SD003

Lab Name: EA LABS Contract:

Lab Code: EAENG Case No: SAS No.: _____ SDG No:

Matrix: (soil/water) SOIL Lab Sample ID: 9702934

Sample wt/vol: 30.0 (g/ml) G Lab File ID: SB2B3590

Level: (low/med) LOW Date Received: 03/22/97

% Moisture: 29 decanted: (Y/N) N Date Extracted: 03/27/97

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/16/97

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)ug/Kg	Q
108-95-2	Phenol	460	U
111-44-4	bis(2-Chloroethyl)ether	460	U
95-57-8	2-Chlorophenol	460	U
541-73-1	1,3-Dichlorobenzene	460	U
106-46-7	1,4-Dichlorobenzene	460	U
95-50-1	1,2-Dichlorobenzene	460	U
95-48-7	2-Methylphenol	460	U
108-60-1	2,2'-oxybis(1-Chloropropane)	460	U
106-44-5	4-Methylphenol	460	U
621-64-7	N-Nitroso-Di-n-propylamine	460	U
67-72-1	Hexachloroethane	460	U
98-95-3	Nitrobenzene	460	U
78-59-1	Isophorone	460	U
88-75-5	2-Nitrophenol	460	U
105-67-9	2,4-Dimethylphenol	460	U
111-91-1	bis(2-Chloroethoxy)methane	460	U
120-83-2	2,4-Dichlorophenol	460	U
120-82-1	1,2,4-Trichlorobenzene	460	U
91-20-3	Naphthalene	190	J
106-47-8	4-Chloroaniline	460	U
87-68-3	Hexachlorobutadiene	460	U
59-50-7	4-Chloro-3-methylphenol	460	U
91-57-6	2-Methylnaphthalene	96	J
77-47-4	Hexachlorocyclopentadiene	460	U
88-06-2	2,4,6-Trichlorophenol	460	U
95-95-4	2,4,5-Trichlorophenol	1100	U
91-58-7	2-Chloronaphthalene	460	U
88-74-4	2-Nitroaniline	1100	U
131-11-3	Dimethylphthalate	460	U
208-96-8	Acenaphthylene	460	U
99-09-2	3-Nitroaniline	1100	U
83-32-9	Acenaphthene	460	U
51-28-5	2,4-Dinitrophenol	1100	U
100-02-7	4-Nitrophenol	1100	U
132-64-9	Dibenzofuran	180	J

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO:

SD003

Lab Name: EA LABS Contract:

_ b Code: EAENG Case No: SAS No.: _____ SDG No:

Matrix: (soil/water) SOIL Lab Sample ID: 9702934

Sample wt/vol: 30.0 (g/ml) G Lab File ID: SB2B3590

Level: (low/med) LOW Date Received: 03/22/97

% Moisture: 29 decanted: (Y/N) N Date Extracted: 03/27/97

Concentrated Extract Volume: 1000 (uL) Date Analyzed: '04/16/97

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)ug/Kg	Q
121-14-2	2,4-Dinitrotoluene	460	U
606-20-2	2,6-Dinitrotoluene	460	U
84-66-2	Diethylphthalate	460	U
7005-72-3	4-Chlorophenyl-phenylether	460	U
86-73-7	Fluorene	300	J
100-01-6	4-Nitroaniline	1100	U
534-52-1	4,6-Dinitro-2-methylphenol	1100	U
86-30-6	N-Nitrosodiphenylamine	460	U
101-55-3	4-Bromophenyl-phenylether	460	U
118-74-1	Hexachlorobenzene	460	U
87-86-5	Pentachlorophenol	1100	U
85-01-8	Phenanthrene	2200	
120-12-7	Anthracene	410	J
86-74-8	Carbazole	260	J
84-74-2	Di-n-butyl phthalate	460	U
206-44-0	Fluoranthene	1600	
129-00-0	Pyrene	3600	
85-68-7	Butylbenzylphthalate	460	U
91-94-1	3,3'-Dichlorobenzidine	460	U
56-55-3	Benzo(a)anthracene	1100	
117-81-7	bis(2-Ethylhexyl)phthalate	130	J
218-01-9	Chrysene	1200	
117-84-0	Di-n-octyl phthalate	460	U
205-99-2	Benzo(b)fluoranthene	1600	
207-08-9	Benzo(k)fluoranthene	450	J
50-32-8	Benzo(a)pyrene	1200	
193-39-5	Indeno(1,2,3-cd)pyrene	1000	
53-70-3	Dibenz(a,h)anthracene	250	J
191-24-2	Benzo(g,h,i)perylene	1100	

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO:

SD003

Lab Name: EA LABS Contract:

Lab Code: EAENG Case No: SAS No.: _____ SDG No:

Matrix: (soil/water) SOIL Lab Sample ID: 9702934

Sample wt/vol: 30.0 (g/ml) G Lab File ID: SB2B3590

Level: (low/med) LOW Date Received: 03/22/97

% Moisture: 29 decanted: (Y/N) N Date Extracted: 03/27/97

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/16/97

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

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

Number TICS found: 20

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.----------	Unknown	16.36	310	J
2.----------	Unknown	16.58	690	J
3.----------	Unknown	16.68	950	J
4.84-65-1-----	9,10-Anthracenedione	16.79	400	JN
5.----------	Unknown	17.87	520	J
6.----------	Unknown C17H12 PAH	18.84	280	J
7.----------	Unknown	19.59	270	J
8.----------	Unknown	20.03	600	J
9.----------	Unknown	21.77	510	J
10.----------	Unknown	22.62	1100	J
11.----------	Unknown C20H12 PAH	22.94	880	J
12.----------	Unknown	23.79	1000	J
13.----------	Unknown	24.01	570	J
14.----------	Unknown	24.10	1800	J
15.----------	Unknown	24.17	880	J
16.----------	Unknown	24.23	2600	J
17.----------	Unknown	24.68	360	J
18.----------	Unknown	24.80	420	J
19.----------	Unknown	25.17	630	J
20.----------	Unknown	25.93	1100	J

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO:

SD003RE

Lab Name: EA LABS Contract:

Lab Code: EAENG Case No: SAS No.: _____ SDG No:

Matrix: (soil/water) SOIL Lab Sample ID: 9702934

Sample wt/vol: 30.0 (g/ml) G Lab File ID: SB2B3593

Level: (low/med) LOW Date Received: 03/22/97

% Moisture: 29 decanted: (Y/N) N Date Extracted: 03/27/97

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/16/97

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)ug/Kg	Q
108-95-2	Phenol	460	U
111-44-4	bis(2-Chloroethyl)ether	460	U
95-57-8	2-Chlorophenol	460	U
541-73-1	1,3-Dichlorobenzene	460	U
106-46-7	1,4-Dichlorobenzene	460	U
95-50-1	1,2-Dichlorobenzene	460	U
95-48-7	2-Methylphenol	460	U
108-60-1	2,2'-oxybis(1-Chloropropane)	460	U
106-44-5	4-Methylphenol	460	U
621-64-7	N-Nitroso-Di-n-propylamine	460	U
67-72-1	Hexachloroethane	460	U
98-95-3	Nitrobenzene	460	U
78-59-1	Isophorone	460	U
88-75-5	2-Nitrophenol	460	U
105-67-9	2,4-Dimethylphenol	460	U
111-91-1	bis(2-Chloroethoxy)methane	460	U
120-83-2	2,4-Dichlorophenol	460	U
120-82-1	1,2,4-Trichlorobenzene	460	U
91-20-3	Naphthalene	460	U
106-47-8	4-Chloroaniline	180	J
87-68-3	Hexachlorobutadiene	460	U
59-50-7	4-Chloro-3-methylphenol	460	U
91-57-6	2-Methylnaphthalene	460	U
77-47-4	Hexachlorocyclopentadiene	460	U
88-06-2	2,4,6-Trichlorophenol	460	U
95-95-4	2,4,5-Trichlorophenol	460	U
91-58-7	2-Chloronaphthalene	1100	U
88-74-4	2-Nitroaniline	460	U
131-11-3	Dimethylphthalate	1100	U
208-96-8	Acenaphthylene	460	U
99-09-2	3-Nitroaniline	140	J
83-32-9	Acenaphthene	1100	U
51-28-5	2,4-Dinitrophenol	460	U
100-02-7	4-Nitrophenol	1100	U
132-64-9	Dibenzofuran	1100	U
		170	J

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO:

SD003RE

Lab Name: EA LABS Contract:

Lab Code: EAENG Case No: SAS No.: _____ SDG No:

Matrix: (soil/water) SOIL Lab Sample ID: 9702934

Sample wt/vol: 30.0 (g/ml) G Lab File ID: SB2B3593

Level: (low/med) LOW Date Received: 03/22/97

% Moisture: 29 decanted: (Y/N) N Date Extracted: 03/27/97

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/16/97

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)ug/Kg	Q
121-14-2	2,4-Dinitrotoluene	460	U
606-20-2	2,6-Dinitrotoluene	460	U
84-66-2	Diethylphthalate	460	U
7005-72-3	4-Chlorophenyl-phenylether	460	U
86-73-7	Fluorene	290	J
100-01-6	4-Nitroaniline	1100	U
534-52-1	4,6-Dinitro-2-methylphenol	1100	U
86-30-6	N-Nitrosodiphenylamine	460	U
101-55-3	4-Bromophenyl-phenylether	460	U
118-74-1	Hexachlorobenzene	460	U
87-86-5	Pentachlorophenol	1100	U
85-01-8	Phenanthrene	2300	
120-12-7	Anthracene	530	
86-74-8	Carbazole	290	J
84-74-2	Di-n-butyl phthalate	460	U
206-44-0	Fluoranthene	1900	
129-00-0	Pyrene	2900	
85-68-7	Butylbenzylphthalate	460	U
91-94-1	3,3'-Dichlorobenzidine	460	U
56-55-3	Benzo(a)anthracene	1100	
117-81-7	bis(2-Ethylhexyl)phthalate	130	J
218-01-9	Chrysene	1100	
117-84-0	Di-n-octyl phthalate	460	U
205-99-2	Benzo(b)fluoranthene	1400	
207-08-9	Benzo(k)fluoranthene	570	
50-32-8	Benzo(a)pyrene	1200	
193-39-5	Indeno(1,2,3-cd)pyrene	1000	
53-70-3	Dibenz(a,h)anthracene	250	J
191-24-2	Benzo(g,h,i)perylene	1000	

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO:

SD003RE

Lab Name: EA LABS Contract:

Lab Code: EAENG Case No: SAS No.: _____ SDG No:

Matrix: (soil/water) SOIL Lab Sample ID: 9702934

Sample wt/vol: 30.0 (g/ml) G Lab File ID: SB2B3593

Level: (low/med) LOW Date Received: 03/22/97

% Moisture: 29 decanted: (Y/N) N Date Extracted: 03/27/97

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/16/97

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

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

Number TICS found: 20

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	----------	Unknown	16.36	370	J
2.	----------	Unknown	16.58	740	J
3.	----------	Unknown	16.69	960	J
4.	84-65-1-----	9,10-Anthracenedione	16.80	390	JN
5.	----------	Unknown	17.88	400	J
6.	----------	Unknown C17H12 PAH	18.71	350	J
7.	----------	Unknown C17H12 PAH	18.85	260	J
8.	----------	Unknown	20.03	560	J
9.	----------	Unknown	21.77	590	J
10.	----------	Unknown	22.61	920	J
11.	----------	Unknown C20H12 PAH	22.93	830	J
12.	----------	Unknown	23.44	420	J
13.	----------	Unknown	23.78	910	J
14.	----------	Unknown	24.00	700	J
15.	----------	Unknown	24.09	390	J
16.	----------	Unknown	24.17	960	J
17.	----------	Unknown	24.23	3200	J
18.	----------	Unknown	24.36	260	J
19.	----------	Unknown	25.16	730	J
20.	----------	Unknown	25.94	960	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
BN08S9SD002

Lab Name: EA LABORATORIES Contract: _____

Lab Code: EA ENG Case No.: _____ SAS No.: 8260 SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 9702933

Sample wt/vol: 5.0 (g/mL) G Lab File ID: VA1B2177.D

Level: (low/med) LOW Date Received: 3/22/97

% Moisture: not dec. 20 Date Analyzed: 4/1/97

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

Concentration Units: (ug/L or ug/Kg) ug/Kg

CAS No.	Compound		Q
74-87-3	Chloromethane	6	U
75-01-4	Vinyl Chloride	6	U
74-83-9	Bromomethane	6	U
75-00-3	Chloroethane	6	U
67-64-1	Acetone	13	U
75-35-4	1,1-Dichloroethene	6	U
75-09-2	Methylene Chloride	6	U
75-15-0	Carbon Disulfide	6	U
75-34-3	1,1-Dichloroethane	6	U
78-93-3	2-Butanone	13	U
540-59-0	1,2-Dichloroethene (total)	6	U
67-66-3	Chloroform	6	U
71-55-6	1,1,1-Trichloroethane	6	U
56-23-5	Carbon Tetrachloride	6	U
107-06-2	1,2-Dichloroethane	6	U
71-43-2	Benzene	6	U
79-01-6	Trichloroethene	6	U
78-87-5	1,2-Dichloropropane	6	U
75-27-4	Bromodichloromethane	6	U
108-10-1	4-Methyl-2-Pentanone	13	U
10061-01-5	cis-1,3-Dichloropropene	6	U
108-88-3	Toluene	6	U
10061-02-6	trans-1,3-Dichloropropene	6	U
79-00-5	1,1,2-Trichloroethane	6	U
591-78-6	2-Hexanone	13	U
127-18-4	Tetrachloroethene	6	U
124-48-1	Chlorodibromomethane	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
1330-20-7	Xylenes (total)	6	U
100-42-5	Styrene	6	U
75-25-2	Bromoform	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BN08S9SD002

Lab Name: EA LABORATORIES Contract: _____

Lab Code: EA ENG Case No.: _____ SAS No.: 8260 SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 9702933

Sample wt/vol: 5.0 (g/mL) G Lab File ID: VA1B2177.D

Level: (low/med) LOW Date Received: 3/22/97

% Moisture: not dec. 20 Date Analyzed: 4/1/97

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

Concentration Units: (ug/L or ug/Kg) ug/Kg

CAS No.	Compound		Q
95-50-1	1,2-Dichlorobenzene	6	U
541-73-1	1,3-Dichlorobenzene	6	U
106-46-7	1,4-Dichlorobenzene	6	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BN08S9SD002

Lab Name: EA LABORATORIES Contract:

Lab Code: EA ENG Case No.: SAS No.: 8260 SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: 9702933

Sample wt/vol: 5.0 (g/mL) G Lab File ID: VA1B2177.D

Level: (low/med) LOW Date Received: 3/22/97

% Moisture: not dec. 20 Date Analyzed: 4/1/97

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

Concentration Units: (ug/L or ug/Kg) ug/Kg

CAS Number	Compound Name	RT	Est. Conc.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
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30.				

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO:

SD002

Lab Name: EA LABS Contract:

Lab Code: EAENG Case No: SAS No.: _____ SDG No:

Matrix: (soil/water) SOIL Lab Sample ID: 9702933

Sample wt/vol: 30.0 (g/ml) G Lab File ID: SB2B3728

Level: (low/med) LOW Date Received: 03/22/97

% Moisture: 20 decanted: (Y/N) N Date Extracted: 03/27/97

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/25/97

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)ug/Kg	Q
108-95-2	Phenol	410	U
111-44-4	bis(2-Chloroethyl)ether	410	U
95-57-8	2-Chlorophenol	410	U
541-73-1	1,3-Dichlorobenzene	410	U
106-46-7	1,4-Dichlorobenzene	410	U
95-50-1	1,2-Dichlorobenzene	410	U
95-48-7	2-Methylphenol	410	U
108-60-1	2,2'-oxybis(1-Chloropropane)	410	U
106-44-5	4-Methylphenol	410	U
621-64-7	N-Nitroso-Di-n-propylamine	410	U
67-72-1	Hexachloroethane	410	U
98-95-3	Nitrobenzene	410	U
78-59-1	Isophorone	410	U
88-75-5	2-Nitrophenol	410	U
105-67-9	2,4-Dimethylphenol	410	U
111-91-1	bis(2-Chloroethoxy)methane	410	U
120-83-2	2,4-Dichlorophenol	410	U
120-82-1	1,2,4-Trichlorobenzene	410	U
91-20-3	Naphthalene	410	U
106-47-8	4-Chloroaniline	410	U
87-68-3	Hexachlorobutadiene	410	U
59-50-7	4-Chloro-3-methylphenol	410	U
91-57-6	2-Methylnaphthalene	410	U
77-47-4	Hexachlorocyclopentadiene	410	U
88-06-2	2,4,6-Trichlorophenol	410	U
95-95-4	2,4,5-Trichlorophenol	1000	U
91-58-7	2-Chloronaphthalene	410	U
88-74-4	2-Nitroaniline	1000	U
131-11-3	Dimethylphthalate	410	U
208-96-8	Acenaphthylene	130	J
99-09-2	3-Nitroaniline	1000	U
83-32-9	Acenaphthene	130	J
51-28-5	2,4-Dinitrophenol	1000	U
100-02-7	4-Nitrophenol	1000	U
132-64-9	Dibenzofuran	410	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO:

SD002

Lab Name: EA LABS Contract:

Lab Code: EAENG Case No: SAS No.: _____ SDG No:

Matrix: (soil/water) SOIL Lab Sample ID: 9702933

Sample wt/vol: 30.0 (g/ml) G Lab File ID: SB2B3728

Level: (low/med) LOW Date Received: 03/22/97

% Moisture: 20 decanted: (Y/N) N Date Extracted: 03/27/97

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/25/97

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)ug/Kg	Q
121-14-2	2,4-Dinitrotoluene	410	U
606-20-2	2,6-Dinitrotoluene	410	U
84-66-2	Diethylphthalate	410	U
7005-72-3	4-Chlorophenyl-phenylether	410	U
86-73-7	Fluorene	340	J
100-01-6	4-Nitroaniline	1000	U
534-52-1	4,6-Dinitro-2-methylphenol	1000	U
86-30-6	N-Nitrosodiphenylamine	410	U
101-55-3	4-Bromophenyl-phenylether	410	U
118-74-1	Hexachlorobenzene	410	U
87-86-5	Pentachlorophenol	1000	U
85-01-8	Phenanthrene	4100	
120-12-7	Anthracene	1500	
86-74-8	Carbazole	90	J
84-74-2	Di-n-butyl phthalate	410	U
206-44-0	Fluoranthene	13000	E
129-00-0	Pyrene	21000	E
85-68-7	Butylbenzylphthalate	410	U
91-94-1	3,3'-Dichlorobenzidine	410	U
56-55-3	Benzo(a)anthracene	9600	E
117-81-7	bis(2-Ethylhexyl)phthalate	3300	
218-01-9	Chrysene	12000	E
117-84-0	Di-n-octyl phthalate	410	U
205-99-2	Benzo(b)fluoranthene	16000	E
207-08-9	Benzo(k)fluoranthene	5300	
50-32-8	Benzo(a)pyrene	10000	E
193-39-5	Indeno(1,2,3-cd)pyrene	7700	E
53-70-3	Dibenz(a,h)anthracene	1800	
191-24-2	Benzo(g,h,i)perylene	7000	E

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO:

SD002

Lab Name: EA LABS Contract:

Lab Code: EAENG Case No: SAS No.: _____ SDG No:

Matrix: (soil/water) SOIL Lab Sample ID: 9702933

Sample wt/vol: 30.0 (g/ml) G Lab File ID: SB2B3728

Level: (low/med) LOW Date Received: 03/22/97

% Moisture: 20 decanted: (Y/N) N Date Extracted: 03/27/97

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/25/97

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

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

Number TICS found: 20

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.80-56-8-----	.alpha.-Pinene	5.04	5500	JN
2.79-92-5-----	Camphene	5.28	1500	JN
3.127-91-3----	.beta.-Pinene	5.68	2300	JN
4.----------	Unknown	8.00	1100	J
5.----------	Unknown	8.59	790	J
6.----------	Unknown C15H12 PAH	15.96	820	J
7.----------	Unknown	16.10	920	J
8.----------	Unknown	16.65	900	J
9.----------	Unknown	16.73	1900	J
10.----------	Unknown	16.90	7200	J
11.----------	Unknown	17.50	850	J
12.----------	Unknown PAH	18.42	750	J
13.----------	Unknown MW258	21.60	2100	J
14.----------	Unknown	21.68	4900	J
15.----------	Unknown hydrocarbon	21.87	2200	J
16.----------	Unknown C20H12 PAH	22.37	4300	J
17.----------	Unknown C20H12 PAH	22.67	7800	J
18.----------	Unknown	23.53	4700	J
19.----------	Unknown	24.81	2600	J
20.----------	Unknown	25.50	5500	J

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO:

SD002RE

Lab Name: EA LABS Contract:

Lab Code: EAENG Case No: SAS No.: _____ SDG No:

Matrix: (soil/water) SOIL Lab Sample ID: 9702933

Sample wt/vol: 30.0 (g/ml) G Lab File ID: SA1B4897

Level: (low/med) LOW Date Received: 3/22/97

% Moisture: 20 decanted: (Y/N) N Date Extracted: 03/27/97

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/30/97

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)ug/Kg	Q
108-95-2	Phenol	410	U
111-44-4	bis(2-Chloroethyl)ether	410	U
95-57-8	2-Chlorophenol	410	U
541-73-1	1,3-Dichlorobenzene	410	U
106-46-7	1,4-Dichlorobenzene	410	U
95-50-1	1,2-Dichlorobenzene	410	U
95-48-7	2-Methylphenol	410	U
108-60-1	2,2'-oxybis(1-Chloropropane)	410	U
106-44-5	4-Methylphenol	410	U
621-64-7	N-Nitroso-Di-n-propylamine	410	U
67-72-1	Hexachloroethane	410	U
98-95-3	Nitrobenzene	410	U
78-59-1	Isophorone	410	U
88-75-5	2-Nitrophenol	410	U
105-67-9	2,4-Dimethylphenol	410	U
111-91-1	bis(2-Chloroethoxy)methane	410	U
120-83-2	2,4-Dichlorophenol	410	U
120-82-1	1,2,4-Trichlorobenzene	410	U
91-20-3	Naphthalene	410	U
106-47-8	4-Chloroaniline	410	U
87-68-3	Hexachlorobutadiene	410	U
59-50-7	4-Chloro-3-methylphenol	410	U
91-57-6	2-Methylnaphthalene	410	U
77-47-4	Hexachlorocyclopentadiene	410	U
88-06-2	2,4,6-Trichlorophenol	410	U
95-95-4	2,4,5-Trichlorophenol	1000	U
91-58-7	2-Chloronaphthalene	410	U
88-74-4	2-Nitroaniline	1000	U
131-11-3	Dimethylphthalate	410	U
208-96-8	Acenaphthylene	210	J
99-09-2	3-Nitroaniline	1000	U
83-32-9	Acenaphthene	410	U
51-28-5	2,4-Dinitrophenol	1000	U
100-02-7	4-Nitrophenol	1000	U
132-64-9	Dibenzofuran	410	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO:

SD002RE

Lab Name: EA LABS Contract:

Code: EAENG Case No: SAS No.: _____ SDG No:

Matrix: (soil/water) SOIL Lab Sample ID: 9702933

Sample wt/vol: 30.0 (g/ml) G Lab File ID: SA1B4897

Level: (low/med) LOW Date Received: 3/22/97

% Moisture: 20 decanted: (Y/N) N Date Extracted: 03/27/97

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/30/97

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)ug/Kg	Q
121-14-2	2,4-Dinitrotoluene	410	U
606-20-2	2,6-Dinitrotoluene	410	U
84-66-2	Diethylphthalate	410	U
7005-72-3	4-Chlorophenyl-phenylether	410	U
86-73-7	Fluorene	500	
100-01-6	4-Nitroaniline	1000	U
534-52-1	4,6-Dinitro-2-methylphenol	1000	U
86-30-6	N-Nitrosodiphenylamine	410	U
101-55-3	4-Bromophenyl-phenylether	410	U
118-74-1	Hexachlorobenzene	410	U
87-86-5	Pentachlorophenol	1000	U
85-01-8	Phenanthrene	3800	
120-12-7	Anthracene	1500	
86-74-8	Carbazole	500	
84-74-2	Di-n-butyl phthalate	410	U
206-44-0	Fluoranthene	13000	E
129-00-0	Pyrene	27000	E
85-68-7	Butylbenzylphthalate	410	U
91-94-1	3,3'-Dichlorobenzidine	410	U
56-55-3	Benzo(a)anthracene	12000	E
117-81-7	bis(2-Ethylhexyl)phthalate	4000	
218-01-9	Chrysene	13000	E
117-84-0	Di-n-octyl phthalate	410	U
205-99-2	Benzo(b)fluoranthene	16000	E
207-08-9	Benzo(k)fluoranthene	6200	
50-32-8	Benzo(a)pyrene	10000	E
193-39-5	Indeno(1,2,3-cd)pyrene	6500	
53-70-3	Dibenz(a,h)anthracene	1400	
191-24-2	Benzo(g,h,i)perylene	5900	

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO:

SD002RE

Lab Name: EA LABS Contract:

Lab Code: EAENG Case No: SAS No.: _____ SDG No:

Matrix: (soil/water) SOIL Lab Sample ID: 9702933

Sample wt/vol: 30.0 (g/ml) G Lab File ID: SA1B4897

Level: (low/med) LOW Date Received: 03/22/97

% Moisture: 20 decanted: (Y/N) N Date Extracted: 03/27/97

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/30/97

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

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

Number TICS found: 22

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.80-56-8-----	.alpha.-Pinene	6.21	4900	JN
2.79-92-5-----	Camphene	6.47	1200	JN
3.127-91-3----	.beta.-Pinene	6.88	2000	JN
4.----------	Unknown	9.18	860	J
5.----------	Unknown	14.30	680	J
6.----------	Unknown C15H12 PAH	17.32	780	J
7.----------	Unknown	17.48	1400	J
8.35465-71-5--	2-Phenylnaphthalene	17.89	630	JN
9.----------	Unknown	18.01	1000	J
10.----------	Unknown	18.08	2000	J
11.----------	Unknown	18.25	7800	J
12.----------	Unknown dimethylphenanthrene	18.40	930	J
13.----------	Unknown	18.85	1200	J
14.----------	Unknown C17H12 PAH	19.86	670	J
15.----------	Unknown C17H12 PAH	19.99	660	J
16.----------	Unknown	23.01	6800	J
17.----------	Unknown C20H12 PAH	23.81	2000	J
18.----------	Unknown hydrocarbon	23.97	2000	J
19.----------	Unknown C20H12 PAH	24.15	9300	J
20.----------	Unknown C20H12 PAH	24.40	2600	J
21.----------	Unknown	25.00	3000	J
22.----------	Unknown	28.04	5400	J

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO:

SD002DL

Lab Name: EA LABS Contract:

Lab Code: EAENG Case No: SAS No.: _____ SDG No:

Matrix: (soil/water) SOIL Lab Sample ID: 9702933

Sample wt/vol: 30.0 (g/ml) G Lab File ID: SB2B3613

Level: (low/med) LOW Date Received: 03/22/97

% Moisture: 20 decanted: (Y/N) N Date Extracted: 03/27/97

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/17/97

Injection Volume: 1.0 (uL) Dilution Factor: 8.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
108-95-2	Phenol	3300	U
111-44-4	bis(2-Chloroethyl)ether	3300	U
95-57-8	2-Chlorophenol	3300	U
541-73-1	1,3-Dichlorobenzene	3300	U
106-46-7	1,4-Dichlorobenzene	3300	U
95-50-1	1,2-Dichlorobenzene	3300	U
95-48-7	2-Methylphenol	3300	U
108-60-1	2,2'-oxybis(1-Chloropropane)	3300	U
106-44-5	4-Methylphenol	3300	U
621-64-7	N-Nitroso-Di-n-propylamine	3300	U
67-72-1	Hexachloroethane	3300	U
98-95-3	Nitrobenzene	3300	U
78-59-1	Isophorone	3300	U
88-75-5	2-Nitrophenol	3300	U
105-67-9	2,4-Dimethylphenol	3300	U
111-91-1	bis(2-Chloroethoxy)methane	3300	U
120-83-2	2,4-Dichlorophenol	3300	U
120-82-1	1,2,4-Trichlorobenzene	3300	U
91-20-3	Naphthalene	3300	U
106-47-8	4-Chloroaniline	3300	U
87-68-3	Hexachlorobutadiene	3300	U
59-50-7	4-Chloro-3-methylphenol	3300	U
91-57-6	2-Methylnaphthalene	3300	U
77-47-4	Hexachlorocyclopentadiene	3300	U
88-06-2	2,4,6-Trichlorophenol	3300	U
95-95-4	2,4,5-Trichlorophenol	8000	U
91-58-7	2-Chloronaphthalene	3300	U
88-74-4	2-Nitroaniline	8000	U
131-11-3	Dimethylphthalate	3300	U
208-96-8	Acenaphthylene	3300	U
99-09-2	3-Nitroaniline	8000	U
83-32-9	Acenaphthene	3300	U
51-28-5	2,4-Dinitrophenol	8000	U
100-02-7	4-Nitrophenol	8000	U
132-64-9	Dibenzofuran	3300	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO:

SD002DL

Lab Name: EA LABS Contract:

Lab Code: EAENG Case No: SAS No.: _____ SDG No:

Matrix: (soil/water) SOIL Lab Sample ID: 9702933

Sample wt/vol: 30.0 (g/ml) G Lab File ID: SB2B3613

Level: (low/med) LOW Date Received: 03/22/97

% Moisture: 20 decanted: (Y/N) N Date Extracted: 03/27/97

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/17/97

Injection Volume: 1.0 (uL) Dilution Factor: 8.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)ug/Kg	Q
121-14-2	2,4-Dinitrotoluene	3300	U
606-20-2	2,6-Dinitrotoluene	3300	U
84-66-2	Diethylphthalate	3300	U
7005-72-3	4-Chlorophenyl-phenylether	3300	U
86-73-7	Fluorene	3300	U
100-01-6	4-Nitroaniline	8000	U
534-52-1	4,6-Dinitro-2-methylphenol	8000	U
86-30-6	N-Nitrosodiphenylamine	3300	U
101-55-3	4-Bromophenyl-phenylether	3300	U
118-74-1	Hexachlorobenzene	3300	U
87-86-5	Pentachlorophenol	8000	U
85-01-8	Phenanthrene	5000	D
120-12-7	Anthracene	2000	DJ
86-74-8	Carbazole	700	DJ
84-74-2	Di-n-butyl phthalate	3300	U
206-44-0	Fluoranthene	31000	D
129-00-0	Pyrene	32000	D
85-68-7	Butylbenzylphthalate	3300	U
91-94-1	3,3'-Dichlorobenzidine	3300	U
56-55-3	Benzo(a)anthracene	15000	D
117-81-7	bis(2-Ethylhexyl)phthalate	4500	D
218-01-9	Chrysene	18000	D
117-84-0	Di-n-octyl phthalate	3300	U
205-99-2	Benzo(b)fluoranthene	27000	D
207-08-9	Benzo(k)fluoranthene	8000	D
50-32-8	Benzo(a)pyrene	16000	D
193-39-5	Indeno(1,2,3-cd)pyrene	7200	D
53-70-3	Dibenz(a,h)anthracene	1700	DJ
191-24-2	Benzo(g,h,i)perylene	6000	D

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO:

SD002DL

Lab Name: EA LABS Contract:

Lab Code: EAENG Case No: SAS No.: _____ SDG No:

Matrix: (soil/water) SOIL Lab Sample ID: 9702933

Sample wt/vol: 30.0 (g/ml) G Lab File ID: SB2B3613

Level: (low/med) LOW Date Received: 03/22/97

% Moisture: 20 decanted: (Y/N) N Date Extracted: 03/27/97

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/17/97

Injection Volume: 1.0 (uL) Dilution Factor: 8.0

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

Number TICS found: 22

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.80-56-8-----	.alpha.-Pinene	5.24	10000	DJN
2.79-92-5-----	Camphene	5.49	1900	DJN
3.127-91-3----	.beta.-Pinene	5.88	3400	DJN
4.----------	Unknown	13.21	1800	DJ
5.----------	Unknown	16.34	2100	DJ
6.----------	Unknown	16.97	3500	DJ
7.----------	Unknown	17.13	18000	DJ
8.----------	Unknown	17.74	2100	DJ
9.----------	Unknown C17H12 PAH	18.65	3300	DJ
10.----------	Unknown C17H12 PAH	18.69	2700	DJ
11.----------	Unknown C17H12 PAH	18.83	2600	DJ
12.----------	Unknown PAH	20.01	2900	DJ
13.----------	Unknown C18H12 PAH	20.64	2200	DJ
14.----------	Unknown	21.85	2200	DJ
15.----------	Unknown	21.92	10000	DJ
16.----------	Unknown hydrocarbon	22.09	3700	DJ
17.----------	Unknown	22.61	8700	DJ
18.----------	Unknown C20H12 PAH	22.92	17000	DJ
19.----------	Unknown	23.77	6600	DJ
20.----------	Unknown hydrocarbon	24.11	3200	DJ
21.----------	Unknown	25.14	2600	DJ
22.----------	Unknown	25.91	4000	DJ

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
BN08S9SDXD1

Lab Name: EA LABORATORIES Contract:

Lab Code: EA ENG Case No.: SAS No.: 8260 SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: 9702935

Sample wt/vol: 5.0 (g/mL) G Lab File ID: VA1B2179.D

Level: (low/med) LOW Date Received: 3/22/97

% Moisture: not dec. 24 Date Analyzed: 4/2/97

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

Concentration Units: (ug/L or ug/Kg) ug/Kg

CAS No.	Compound		Q
74-87-3	Chloromethane	7	U
75-01-4	Vinyl Chloride	7	U
74-83-9	Bromomethane	7	U
75-00-3	Chloroethane	7	U
67-64-1	Acetone	13	U
75-35-4	1,1-Dichloroethene	7	U
75-09-2	Methylene Chloride	7	U
75-15-0	Carbon Disulfide	7	U
75-34-3	1,1-Dichloroethane	7	U
78-93-3	2-Butanone	13	U
540-59-0	1,2-Dichloroethene (total)	7	U
67-66-3	Chloroform	7	U
71-55-6	1,1,1-Trichloroethane	7	U
56-23-5	Carbon Tetrachloride	7	U
107-06-2	1,2-Dichloroethane	7	U
71-43-2	Benzene	7	U
79-01-6	Trichloroethene	7	U
78-87-5	1,2-Dichloropropane	7	U
75-27-4	Bromodichloromethane	7	U
108-10-1	4-Methyl-2-Pentanone	13	U
10061-01-5	cis-1,3-Dichloropropene	7	U
108-88-3	Toluene	7	U
10061-02-6	trans-1,3-Dichloropropene	7	U
79-00-5	1,1,2-Trichloroethane	7	U
591-78-6	2-Hexanone	13	U
127-18-4	Tetrachloroethene	7	U
124-48-1	Chlorodibromomethane	7	U
108-90-7	Chlorobenzene	7	U
100-41-4	Ethylbenzene	7	U
1330-20-7	Xylenes (total)	7	U
100-42-5	Styrene	7	U
75-25-2	Bromoform	7	U
79-34-5	1,1,2,2-Tetrachloroethane	7	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BN08S9SDXD1

Lab Name: EA LABORATORIES Contract: _____

Lab Code: EA ENG Case No.: _____ SAS No.: 8260 SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 9702935

Sample wt/vol: 5.0 (g/mL) G Lab File ID: VA1B2179.D

Level: (low/med) LOW Date Received: 3/22/97

% Moisture: not dec. 24 Date Analyzed: 4/2/97

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/Kg	Q
95-50-1	1,2-Dichlorobenzene	7	U
541-73-1	1,3-Dichlorobenzene	7	U
106-46-7	1,4-Dichlorobenzene	7	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BN08S9SDXD1

Lab Name: EA LABORATORIES Contract: _____

Lab Code: EA ENG Case No.: _____ SAS No.: 8260 SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 9702935

Sample wt/vol: 5.0 (g/mL) G Lab File ID: VA1B2179.D

Level: (low/med) LOW Date Received: 3/22/97

% Moisture: not dec. 24 Date Analyzed: 4/2/97

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

Number TICs found: 1 Concentration Units: (ug/L or ug/Kg) ug/Kg

CAS Number	Compound Name	RT	Est. Conc.	Q
1.	Unknown	25.76	4	J
2.				
3.				
4.				
5.				
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30.				

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO:

SDXD1

Lab Name: EA LABS Contract:

b Code: EAENG Case No: SAS No.: _____ SDG No:

Matrix: (soil/water) SOIL Lab Sample ID: 9702935

Sample wt/vol: 30.0 (g/ml) G Lab File ID: SA1B4898

Level: (low/med) LOW Date Received: 3/22/97

% Moisture: 24 decanted: (Y/N) N Date Extracted: 03/27/97

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/30/97

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)ug/Kg	Q
108-95-2	Phenol	430	U
111-44-4	bis(2-Chloroethyl)ether	430	U
95-57-8	2-Chlorophenol	430	U
541-73-1	1,3-Dichlorobenzene	430	U
106-46-7	1,4-Dichlorobenzene	430	U
95-50-1	1,2-Dichlorobenzene	430	U
95-48-7	2-Methylphenol	430	U
108-60-1	2,2'-oxybis(1-Chloropropane)	430	U
106-44-5	4-Methylphenol	430	U
621-64-7	N-Nitroso-Di-n-propylamine	430	U
67-72-1	Hexachloroethane	430	U
98-95-3	Nitrobenzene	430	U
78-59-1	Isophorone	430	U
88-75-5	2-Nitrophenol	430	U
105-67-9	2,4-Dimethylphenol	430	U
111-91-1	bis(2-Chloroethoxy)methane	430	U
120-83-2	2,4-Dichlorophenol	430	U
120-82-1	1,2,4-Trichlorobenzene	430	U
91-20-3	Naphthalene	430	U
106-47-8	4-Chloroaniline	430	U
87-68-3	Hexachlorobutadiene	430	U
59-50-7	4-Chloro-3-methylphenol	430	U
91-57-6	2-Methylnaphthalene	430	U
77-47-4	Hexachlorocyclopentadiene	430	U
88-06-2	2,4,6-Trichlorophenol	430	U
95-95-4	2,4,5-Trichlorophenol	1100	U
91-58-7	2-Chloronaphthalene	430	U
88-74-4	2-Nitroaniline	1100	U
131-11-3	Dimethylphthalate	430	U
208-96-8	Acenaphthylene	420	J
99-09-2	3-Nitroaniline	1100	U
83-32-9	Acenaphthene	1100	
51-28-5	2,4-Dinitrophenol	1100	U
100-02-7	4-Nitrophenol	1100	U
132-64-9	Dibenzofuran	400	J

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO:

SDXD1

Lab Name: EA LABS Contract:

Lab Code: EAENG Case No: SAS No.: _____ SDG No:

Matrix: (soil/water) SOIL Lab Sample ID: 9702935

Sample wt/vol: 30.0 (g/ml) G Lab File ID: SA1B4898

Level: (low/med) LOW Date Received: 3/22/97

% Moisture: 24 decanted: (Y/N) N Date Extracted: 03/27/97

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/30/97

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)ug/Kg	Q
121-14-2	2,4-Dinitrotoluene	430	U
606-20-2	2,6-Dinitrotoluene	430	U
84-66-2	Diethylphthalate	430	U
7005-72-3	4-Chlorophenyl-phenylether	430	U
86-73-7	Fluorene	1700	
100-01-6	4-Nitroaniline	1100	U
534-52-1	4,6-Dinitro-2-methylphenol	1100	U
86-30-6	N-Nitrosodiphenylamine	430	U
101-55-3	4-Bromophenyl-phenylether	430	U
118-74-1	Hexachlorobenzene	430	U
87-86-5	Pentachlorophenol	1100	U
85-01-8	Phenanthrene	12000	E
120-12-7	Anthracene	3200	
86-74-8	Carbazole	920	
84-74-2	Di-n-butyl phthalate	430	U
206-44-0	Fluoranthene	14000	E
129-00-0	Pyrene	28000	E
85-68-7	Butylbenzylphthalate	430	U
91-94-1	3,3'-Dichlorobenzidine	430	U
56-55-3	Benzo(a)anthracene	12000	E
117-81-7	bis(2-Ethylhexyl)phthalate	3600	
218-01-9	Chrysene	12000	E
117-84-0	Di-n-octyl phthalate	430	U
205-99-2	Benzo(b)fluoranthene	13000	E
207-08-9	Benzo(k)fluoranthene	4900	
50-32-8	Benzo(a)pyrene	9700	E
193-39-5	Indeno(1,2,3-cd)pyrene	7800	E
53-70-3	Dibenz(a,h)anthracene	1700	
191-24-2	Benzo(g,h,i)perylene	8300	E

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO:

SDXD1

Lab Name: EA LABS Contract:

Lab Code: EAENG Case No: SAS No.: _____ SDG No:

Matrix: (soil/water) SOIL Lab Sample ID: 9702935

Sample wt/vol: 30.0 (g/ml) G Lab File ID: SA1B4898

Level: (low/med) LOW Date Received: 03/22/97

% Moisture: 24 decanted: (Y/N) N Date Extracted: 03/27/97

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/30/97

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

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

Number TICS found: 22

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.132-65-0----	Dibenzothiophene	16.02	720	JN
2.----------	Unknown C15H12 PAH	17.27	1000	J
3.----------	Unknown C15H12 PAH	17.33	1400	J
4.----------	Unknown	17.49	2600	J
5.----------	Unknown	17.81	750	J
6.35465-71-5--	2-Phenylnphthalene	17.89	1000	JN
7.----------	Unknown	18.02	4000	J
8.----------	Unknown	18.21	810	J
9.----------	Unknown dimethylphenanthrene	18.40	1000	J
10.----------	Unknown	18.84	890	J
11.----------	Unknown MW234	19.79	1600	J
12.----------	Unknown hydrocarbon	23.09	2700	J
13.----------	Unknown	23.25	1200	J
14.----------	Unknown	23.76	2800	J
15.----------	Unknown C20H12 PAH	23.80	2000	J
16.----------	Unknown hydrocarbon	23.97	1600	J
17.----------	Unknown C20H12 PAH	24.13	6300	J
18.----------	Unknown C20H12 PAH	24.40	2300	J
19.----------	Unknown	25.71	2300	J
20.----------	Unknown PAH	26.56	1500	J
21.----------	Unknown	27.27	1200	J
22.----------	Unknown C22H12 PAH	27.99	1300	J

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO:

SDXD1RE

Lab Name: EA LABS Contract:

Lab Code: EAENG Case No: SAS No.: _____ SDG No:

Matrix: (soil/water) SOIL Lab Sample ID: 9702935

Sample wt/vol: 30.0 (g/ml) G Lab File ID: SA1B4902

Level: (low/med) LOW Date Received: 03/22/97

% Moisture: 24 decanted: (Y/N) N Date Extracted: 03/27/97

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/30/97

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)ug/Kg	Q
108-95-2	Phenol	430	U
111-44-4	bis(2-Chloroethyl)ether	430	U
95-57-8	2-Chlorophenol	430	U
541-73-1	1,3-Dichlorobenzene	430	U
106-46-7	1,4-Dichlorobenzene	430	U
95-50-1	1,2-Dichlorobenzene	430	U
95-48-7	2-Methylphenol	430	U
108-60-1	2,2'-oxybis(1-Chloropropane)	430	U
106-44-5	4-Methylphenol	430	U
621-64-7	N-Nitroso-Di-n-propylamine	430	U
67-72-1	Hexachloroethane	430	U
98-95-3	Nitrobenzene	430	U
78-59-1	Isophorone	430	U
88-75-5	2-Nitrophenol	430	U
105-67-9	2,4-Dimethylphenol	430	U
111-91-1	bis(2-Chloroethoxy)methane	430	U
120-83-2	2,4-Dichlorophenol	430	U
120-82-1	1,2,4-Trichlorobenzene	430	U
91-20-3	Naphthalene	430	U
106-47-8	4-Chloroaniline	430	U
87-68-3	Hexachlorobutadiene	430	U
59-50-7	4-Chloro-3-methylphenol	430	U
91-57-6	2-Methylnaphthalene	430	U
77-47-4	Hexachlorocyclopentadiene	430	U
88-06-2	2,4,6-Trichlorophenol	430	U
95-95-4	2,4,5-Trichlorophenol	1100	U
91-58-7	2-Chloronaphthalene	430	U
88-74-4	2-Nitroaniline	1100	U
131-11-3	Dimethylphthalate	430	U
208-96-8	Acenaphthylene	410	J
99-09-2	3-Nitroaniline	1100	U
83-32-9	Acenaphthene	1100	
51-28-5	2,4-Dinitrophenol	1100	U
100-02-7	4-Nitrophenol	1100	U
132-64-9	Dibenzofuran	440	

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO:

SDXD1RE

Lab Name: EA LABS Contract:

b Code: EAENG Case No: SAS No.: _____ SDG No:

Matrix: (soil/water) SOIL Lab Sample ID: 9702935

Sample wt/vol: 30.0 (g/ml) G Lab File ID: SA1B4902

Level: (low/med) LOW Date Received: 03/22/97

% Moisture: 24 decanted: (Y/N) N Date Extracted: 03/27/97

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/30/97

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)ug/Kg	Q
121-14-2	2,4-Dinitrotoluene	430	U
606-20-2	2,6-Dinitrotoluene	430	U
84-66-2	Diethylphthalate	430	U
7005-72-3	4-Chlorophenyl-phenylether	430	U
86-73-7	Fluorene	1800	
100-01-6	4-Nitroaniline	1100	U
534-52-1	4,6-Dinitro-2-methylphenol	1100	U
86-30-6	N-Nitrosodiphenylamine	430	U
101-55-3	4-Bromophenyl-phenylether	430	U
118-74-1	Hexachlorobenzene	430	U
87-86-5	Pentachlorophenol	1100	U
85-01-8	Phenanthrene	11000	E
120-12-7	Anthracene	3100	
86-74-8	Carbazole	960	
84-74-2	Di-n-butyl phthalate	430	U
206-44-0	Fluoranthene	13000	E
129-00-0	Pyrene	23000	E
85-68-7	Butylbenzylphthalate	430	U
91-94-1	3,3'-Dichlorobenzidine	430	U
56-55-3	Benzo(a)anthracene	12000	E
117-81-7	bis(2-Ethylhexyl)phthalate	3100	
218-01-9	Chrysene	12000	E
117-84-0	Di-n-octyl phthalate	430	U
205-99-2	Benzo(b)fluoranthene	12000	E
207-08-9	Benzo(k)fluoranthene	5000	
50-32-8	Benzo(a)pyrene	9400	E
193-39-5	Indeno(1,2,3-cd)pyrene	7400	E
53-70-3	Dibenz(a,h)anthracene	1600	
191-24-2	Benzo(g,h,i)perylene	7500	E

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO:

SDXD1RE

Lab Name: EA LABS Contract:

Lab Code: EAENG Case No: SAS No.: _____ SDG No:

Matrix: (soil/water) SOIL Lab Sample ID: 9702935

Sample wt/vol: 30.0 (g/ml) G Lab File ID: SA1B4902

Level: (low/med) LOW Date Received: 03/22/97

% Moisture: 24 decanted: (Y/N) N Date Extracted: 03/27/97

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/30/97

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

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

Number TICS found: 22

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.132-65-0----	Dibenzothiophene	16.00	740	JN
2.----------	Unknown C15H12 PAH	17.25	1100	J
3.----------	Unknown C15H12 PAH	17.31	1500	J
4.----------	Unknown	17.47	2600	J
5.----------	Unknown C15H12 PAH	17.52	740	J
6.----------	Unknown	17.78	720	J
7.35465-71-5--	2-Phenylnaphthalene	17.88	1100	JN
8.----------	Unknown	18.00	3900	J
9.----------	Unknown	18.19	760	J
10.----------	Unknown dimethylphenanthrene	18.38	1000	J
11.----------	Unknown	18.82	780	J
12.----------	Unknown MW234	19.77	1400	J
13.----------	Unknown hydrocarbon	23.07	2300	J
14.----------	Unknown	23.23	1300	J
15.----------	Unknown	23.74	3200	J
16.----------	Unknown C20H12 PAH	23.78	2500	J
17.----------	Unknown hydrocarbon	23.95	2800	J
18.----------	Unknown C20H12 PAH	24.11	7400	J
19.----------	Unknown	26.32	1300	J
20.----------	Unknown PAH	26.52	1700	J
21.----------	Unknown C22H14 PAH	27.13	1300	J
22.----------	Unknown C22H12 PAH	27.94	1200	J

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO:

SDXD1DL

Lab Name: EA LABS Contract:

Lab Code: EAENG Case No: SAS No.: _____ SDG No:

Matrix: (soil/water) SOIL Lab Sample ID: 9702935

Sample wt/vol: 30.0 (g/ml) G Lab File ID: SB2B3614

Level: (low/med) LOW Date Received: 03/22/97

% Moisture: 24 decanted: (Y/N) N Date Extracted: 03/27/97

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/17/97

Injection Volume: 1.0 (uL) Dilution Factor: 8.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)ug/Kg	Q
108-95-2	Phenol	3500	U
111-44-4	bis(2-Chloroethyl)ether	3500	U
95-57-8	2-Chlorophenol	3500	U
541-73-1	1,3-Dichlorobenzene	3500	U
106-46-7	1,4-Dichlorobenzene	3500	U
95-50-1	1,2-Dichlorobenzene	3500	U
95-48-7	2-Methylphenol	3500	U
108-60-1	2,2'-oxybis(1-Chloropropane)	3500	U
106-44-5	4-Methylphenol	3500	U
621-64-7	N-Nitroso-Di-n-propylamine	3500	U
67-72-1	Hexachloroethane	3500	U
98-95-3	Nitrobenzene	3500	U
78-59-1	Isophorone	3500	U
88-75-5	2-Nitrophenol	3500	U
105-67-9	2,4-Dimethylphenol	3500	U
111-91-1	bis(2-Chloroethoxy)methane	3500	U
120-83-2	2,4-Dichlorophenol	3500	U
120-82-1	1,2,4-Trichlorobenzene	3500	U
91-20-3	Naphthalene	3500	U
106-47-8	4-Chloroaniline	3500	U
87-68-3	Hexachlorobutadiene	3500	U
59-50-7	4-Chloro-3-methylphenol	3500	U
91-57-6	2-Methylnaphthalene	3500	U
77-47-4	Hexachlorocyclopentadiene	3500	U
88-06-2	2,4,6-Trichlorophenol	3500	U
95-95-4	2,4,5-Trichlorophenol	8400	U
91-58-7	2-Chloronaphthalene	3500	U
88-74-4	2-Nitroaniline	8400	U
131-11-3	Dimethylphthalate	3500	U
208-96-8	Acenaphthylene	3500	U
99-09-2	3-Nitroaniline	8400	U
83-32-9	Acenaphthene	3500	U
51-28-5	2,4-Dinitrophenol	8400	U
100-02-7	4-Nitrophenol	8400	U
132-64-9	Dibenzofuran	1000	DJ

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO:

SDXD1DL

Lab Name: EA LABS Contract:

Lab Code: EAENG Case No: SAS No.: _____ SDG No:

Matrix: (soil/water) SOIL Lab Sample ID: 9702935

Sample wt/vol: 30.0 (g/ml) G Lab File ID: SB2B3614

Level: (low/med) LOW Date Received: 03/22/97

% Moisture: 24 decanted: (Y/N) N Date Extracted: 03/27/97

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/17/97

Injection Volume: 1.0 (uL) Dilution Factor: 8.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)ug/Kg	Q
121-14-2	2,4-Dinitrotoluene	3500	U
606-20-2	2,6-Dinitrotoluene	3500	U
84-66-2	Diethylphthalate	3500	U
7005-72-3	4-Chlorophenyl-phenylether	3500	U
86-73-7	Fluorene	2300	DJ
100-01-6	4-Nitroaniline	8400	U
534-52-1	4,6-Dinitro-2-methylphenol	8400	U
86-30-6	N-Nitrosodiphenylamine	3500	U
101-55-3	4-Bromophenyl-phenylether	3500	U
118-74-1	Hexachlorobenzene	3500	U
87-86-5	Pentachlorophenol	8400	U
85-01-8	Phenanthrene	22000	D
120-12-7	Anthracene	4500	D
86-74-8	Carbazole	1600	DJ
84-74-2	Di-n-butyl phthalate	3500	U
206-44-0	Fluoranthene	36000	D
129-00-0	Pyrene	39000	D
85-68-7	Butylbenzylphthalate	3500	U
91-94-1	3,3'-Dichlorobenzidine	3500	U
56-55-3	Benzo(a)anthracene	16000	D
117-81-7	bis(2-Ethylhexyl)phthalate	4500	D
218-01-9	Chrysene	16000	D
117-84-0	Di-n-octyl phthalate	3500	U
205-99-2	Benzo(b)fluoranthene	22000	D
207-08-9	Benzo(k)fluoranthene	8400	D
50-32-8	Benzo(a)pyrene	16000	D
193-39-5	Indeno(1,2,3-cd)pyrene	10000	D
53-70-3	Dibenz(a,h)anthracene	2400	DJ
191-24-2	Benzo(g,h,i)perylene	10000	D

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO:

SDXD1DL

Lab Name: EA LABS Contract:

Lab Code: EAENG Case No: SAS No.: _____ SDG No:

Matrix: (soil/water) SOIL Lab Sample ID: 9702935

Sample wt/vol: 30.0 (g/ml) G Lab File ID: SB2B3614

Level: (low/med) LOW Date Received: 03/22/97

% Moisture: 24 decanted: (Y/N) N Date Extracted: 03/27/97

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/17/97

Injection Volume: 1.0 (uL) Dilution Factor: 8.0

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

Number TICS found: 20

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	----------	Unknown C15H12 PAH	16.14	2000	DJ
2.	----------	Unknown C15H12 PAH	16.19	2700	DJ
3.	----------	Unknown	16.34	5200	DJ
4.	35465-71-5--	2-Phenylnaphthalene	16.78	3600	DJN
5.	----------	Unknown	16.89	8900	DJ
6.	----------	Unknown phenanthrene isomer	17.27	2100	DJ
7.	243-42-5----	Benzo[b]naphtho[2,3-d] furan	18.28	1600	DJN
8.	----------	Unknown	18.66	8800	DJ
9.	----------	Unknown C17H12 PAH	18.70	2500	DJ
10.	----------	Unknown C17H12 PAH	18.83	3000	DJ
11.	----------	Unknown C17H12 PAH	18.89	1800	DJ
12.	----------	Unknown	19.70	2000	DJ
13.	----------	Unknown	20.00	2300	DJ
14.	----------	Unknown	21.44	2400	DJ
15.	----------	Unknown hydrocarbon	22.10	6800	DJ
16.	----------	Unknown	22.18	3400	DJ
17.	----------	Unknown C20H12 PAH	22.62	5400	DJ
18.	----------	Unknown	22.69	4900	DJ
19.	----------	Unknown C20H12 PAH	22.92	13000	DJ
20.	----------	Unknown	23.41	2200	DJ

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
08S9SD001

Lab Name: EA LABORATORIES Contract:

Lab Code: EA ENG Case No.: SAS No.: 8260 SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: 9702932

Sample wt/vol: 5.0 (g/mL) G Lab File ID: VA1B2174.D

Level: (low/med) LOW Date Received: 3/22/97

% Moisture: not dec. 36 Date Analyzed: 4/1/97

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

Concentration Units: (ug/L or ug/Kg) ug/Kg

CAS No.	Compound		Q
74-87-3	Chloromethane	8	U
75-01-4	Vinyl Chloride	8	U
74-83-9	Bromomethane	8	U
75-00-3	Chloroethane	8	U
67-64-1	Acetone	16	U
75-35-4	1,1-Dichloroethene	8	U
75-09-2	Methylene Chloride	8	U
75-15-0	Carbon Disulfide	8	U
75-34-3	1,1-Dichloroethane	8	U
78-93-3	2-Butanone	16	U
540-59-0	1,2-Dichloroethene (total)	8	U
67-66-3	Chloroform	8	U
71-55-6	1,1,1-Trichloroethane	8	U
56-23-5	Carbon Tetrachloride	8	U
107-06-2	1,2-Dichloroethane	8	U
71-43-2	Benzene	8	U
79-01-6	Trichloroethene	8	U
78-87-5	1,2-Dichloropropane	8	U
75-27-4	Bromodichloromethane	8	U
108-10-1	4-Methyl-2-Pentanone	16	U
10061-01-5	cis-1,3-Dichloropropene	8	U
108-88-3	Toluene	8	U
10061-02-6	trans-1,3-Dichloropropene	8	U
79-00-5	1,1,2-Trichloroethane	8	U
591-78-6	2-Hexanone	16	U
127-18-4	Tetrachloroethene	8	U
124-48-1	Chlorodibromomethane	8	U
108-90-7	Chlorobenzene	8	U
100-41-4	Ethylbenzene	8	U
1330-20-7	Xylenes (total)	8	U
100-42-5	Styrene	8	U
75-25-2	Bromoform	8	U
79-34-5	1,1,2,2-Tetrachloroethane	8	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

08S9SD001

Lab Name: EA LABORATORIES Contract:

Lab Code: EA ENG Case No.: SAS No.: 8260 SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: 9702932

Sample wt/vol: 5.0 (g/mL) G Lab File ID: VA1B2174.D

Level: (low/med) LOW Date Received: 3/22/97

% Moisture: not dec. 36 Date Analyzed: 4/1/97

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/Kg	Q
95-50-1	1,2-Dichlorobenzene	8	U
541-73-1	1,3-Dichlorobenzene	8	U
106-46-7	1,4-Dichlorobenzene	8	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

08S9SD001

Lab Name: EA LABORATORIES Contract: _____

Lab Code: EA ENG Case No.: _____ SAS No.: 8260 SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 9702932

Sample wt/vol: 5.0 (g/mL) G Lab File ID: VA1B2174.D

Level: (low/med) LOW Date Received: 3/22/97

% Moisture: not dec. 36 Date Analyzed: 4/1/97

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

Concentration Units: (ug/L or ug/Kg) ug/Kg

CAS Number	Compound Name	RT	Est. Conc.	Q
1.				
2.				
3.				
4.				
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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO:

SD001

Lab Name: EA LABS Contract:

b Code: EAENG Case No: SAS No.: _____ SDG No:

Matrix: (soil/water) SOIL Lab Sample ID: 9702932

Sample wt/vol: 30.0 (g/ml) G Lab File ID: SB2B3586

Level: (low/med) LOW Date Received: 03/22/97

% Moisture: 36 decanted: (Y/N) N Date Extracted: 03/27/97

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/16/97

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)ug/Kg	Q
108-95-2	Phenol	520	U
111-44-4	bis(2-Chloroethyl)ether	520	U
95-57-8	2-Chlorophenol	520	U
541-73-1	1,3-Dichlorobenzene	520	U
106-46-7	1,4-Dichlorobenzene	520	U
95-50-1	1,2-Dichlorobenzene	520	U
95-48-7	2-Methylphenol	520	U
108-60-1	2,2'-oxybis(1-Chloropropane)	520	U
106-44-5	4-Methylphenol	520	U
621-64-7	N-Nitroso-Di-n-propylamine	520	U
67-72-1	Hexachloroethane	520	U
98-95-3	Nitrobenzene	520	U
78-59-1	Isophorone	520	U
88-75-5	2-Nitrophenol	520	U
105-67-9	2,4-Dimethylphenol	520	U
111-91-1	bis(2-Chloroethoxy)methane	520	U
120-83-2	2,4-Dichlorophenol	520	U
120-82-1	1,2,4-Trichlorobenzene	520	U
91-20-3	Naphthalene	520	U
106-47-8	4-Chloroaniline	520	U
87-68-3	Hexachlorobutadiene	520	U
59-50-7	4-Chloro-3-methylphenol	520	U
91-57-6	2-Methylnaphthalene	520	U
77-47-4	Hexachlorocyclopentadiene	520	U
88-06-2	2,4,6-Trichlorophenol	520	U
95-95-4	2,4,5-Trichlorophenol	520	U
91-58-7	2-Chloronaphthalene	1200	U
88-74-4	2-Nitroaniline	520	U
131-11-3	Dimethylphthalate	1200	U
208-96-8	Acenaphthylene	520	U
99-09-2	3-Nitroaniline	520	U
83-32-9	Acenaphthene	1200	U
51-28-5	2,4-Dinitrophenol	520	U
100-02-7	4-Nitrophenol	1200	U
132-64-9	Dibenzofuran	1200	U
		520	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO:

SD001

Lab Name: EA LABS Contract:

Lab Code: EAENG Case No: SAS No.: _____ SDG No:

Matrix: (soil/water) SOIL Lab Sample ID: 9702932

Sample wt/vol: 30.0 (g/ml) G Lab File ID: SB2B3586

Level: (low/med) LOW Date Received: 03/22/97

% Moisture: 36 decanted: (Y/N) N Date Extracted: 03/27/97

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/16/97

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)ug/Kg	Q
121-14-2	2,4-Dinitrotoluene	520	U
606-20-2	2,6-Dinitrotoluene	520	U
84-66-2	Diethylphthalate	520	U
7005-72-3	4-Chlorophenyl-phenylether	520	U
86-73-7	Fluorene	150	J
100-01-6	4-Nitroaniline	1200	U
534-52-1	4,6-Dinitro-2-methylphenol	1200	U
86-30-6	N-Nitrosodiphenylamine	520	U
101-55-3	4-Bromophenyl-phenylether	520	U
118-74-1	Hexachlorobenzene	520	U
87-86-5	Pentachlorophenol	1200	U
85-01-8	Phenanthrene	1100	
120-12-7	Anthracene	230	J
86-74-8	Carbazole	180	J
84-74-2	Di-n-butyl phthalate	520	U
206-44-0	Fluoranthene	1700	
129-00-0	Pyrene	1800	
85-68-7	Butylbenzylphthalate	520	U
91-94-1	3,3'-Dichlorobenzidine	520	U
56-55-3	Benzo(a)anthracene	810	
117-81-7	bis(2-Ethylhexyl)phthalate	130	J
218-01-9	Chrysene	930	
117-84-0	Di-n-octyl phthalate	520	U
205-99-2	Benzo(b)fluoranthene	1600	
207-08-9	Benzo(k)fluoranthene	490	J
50-32-8	Benzo(a)pyrene	1100	
193-39-5	Indeno(1,2,3-cd)pyrene	800	
53-70-3	Dibenz(a,h)anthracene	200	J
191-24-2	Benzo(g,h,i)perylene	780	

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO:

SD001

Lab Name: EA LABS Contract:

Lab Code: EAENG Case No: SAS No.: _____ SDG No:

Matrix: (soil/water) SOIL Lab Sample ID: 9702932

Sample wt/vol: 30.0 (g/ml) G Lab File ID: SB2B3586

Level: (low/med) LOW Date Received: 03/22/97

% Moisture: 36 decanted: (Y/N) N Date Extracted: 03/27/97

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/16/97

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

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

Number TICS found: 20

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.----------	Unknown	4.14	430	J
2.112-39-0----	Hexadecanoic acid, methyl es	16.20	430	JN
3.----------	Unknown	16.36	210	J
4.84-65-1-----	9,10-Anthracenedione	16.80	290	JN
5.----------	Unknown	17.70	360	J
6.----------	Unknown	18.67	300	J
7.----------	Unknown C17H12 PAH	18.91	210	J
8.----------	Unknown PAH	20.03	230	J
9.----------	Unknown	21.38	220	J
10.----------	Unknown	21.77	850	J
11.----------	Unknown hydrocarbon	22.11	540	J
12.----------	Unknown	22.62	2200	J
13.----------	Unknown	23.35	380	J
14.----------	Unknown	23.78	2500	J
15.----------	Unknown hydrocarbon	24.12	950	J
16.----------	Unknown	24.17	1300	J
17.----------	Unknown	25.17	1100	J
18.----------	Unknown	25.94	460	J
19.----------	Unknown	26.42	280	J
20.----------	Unknown	27.07	220	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BN08S9QT005

Lab Name: EA LABORATORIES Contract:

Lab Code: EA ENG Case No.: SAS No.: 8260 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 9702931

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: VH8B2104.D

Level: (low/med) Date Received: 3/22/97

% Moisture: not dec. Date Analyzed: 3/29/97

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

Concentration Units: (ug/L or ug/Kg) ug/L

CAS No.	Compound		Q
74-87-3	Chloromethane	1	U
75-01-4	Vinyl Chloride	1	U
74-83-9	Bromomethane	1	U
75-00-3	Chloroethane	1	U
67-64-1	Acetone	5	U
75-35-4	1,1-Dichloroethene	1	U
75-09-2	Methylene Chloride	1	U
75-15-0	Carbon Disulfide	1	U
75-34-3	1,1-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
540-59-0	1,2-Dichloroethene (total)	1	U
67-66-3	Chloroform	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
107-06-2	1,2-Dichloroethane	1	U
71-43-2	Benzene	1	U
79-01-6	Trichloroethene	1	U
78-87-5	1,2-Dichloropropane	1	U
75-27-4	Bromodichloromethane	1	U
108-10-1	4-Methyl-2-Pentanone	5	U
10061-01-5	cis-1,3-Dichloropropene	1	U
108-88-3	Toluene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
79-00-5	1,1,2-Trichloroethane	1	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
124-48-1	Chlorodibromomethane	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylenes (total)	1	U
100-42-5	Styrene	1	U
75-25-2	Bromoform	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BN08S9QT005

Lab Name: EA LABORATORIES Contract:

Lab Code: EA ENG Case No.: SAS No.: 8260 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 9702931

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: VH8B2104.D

Level: (low/med) Date Received: 3/22/97

% Moisture: not dec. Date Analyzed: 3/29/97

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

Concentration Units: (ug/L or ug/Kg) ug/L

CAS No.	Compound		Q
95-50-1	1,2-Dichlorobenzene	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BN08S9QT005

Lab Name: EA LABORATORIES Contract:

Lab Code: EA ENG Case No.: SAS No.: 8260 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 9702931

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: VH8B2104.D

Level: (low/med) Date Received: 3/22/97

% Moisture: not dec. Date Analyzed: 3/29/97

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

Concentration Units: (ug/L or ug/Kg) ug/L

CAS Number	Compound Name	RT	Est. Conc.	Q
1.				
2.				
3.				
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
BN08S9QS004

Lab Name: EA LABORATORIES Contract:

Lab Code: EA ENG Case No.: SAS No.: 8260 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 9702925

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: VH8B2106.D

Level: (low/med) Date Received: 3/22/97

% Moisture: not dec. Date Analyzed: 3/29/97

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	1	U
75-01-4	Vinyl Chloride	1	U
74-83-9	Bromomethane	1	U
75-00-3	Chloroethane	1	U
67-64-1	Acetone	5	U
75-35-4	1,1-Dichloroethene	1	U
75-09-2	Methylene Chloride	1	
75-15-0	Carbon Disulfide	1	U
75-34-3	1,1-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
540-59-0	1,2-Dichloroethene (total)	1	U
67-66-3	Chloroform	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
107-06-2	1,2-Dichloroethane	1	U
71-43-2	Benzene	1	U
79-01-6	Trichloroethene	1	U
78-87-5	1,2-Dichloropropane	1	U
75-27-4	Bromodichloromethane	1	U
108-10-1	4-Methyl-2-Pentanone	5	U
10061-01-5	cis-1,3-Dichloropropene	1	U
108-88-3	Toluene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
79-00-5	1,1,2-Trichloroethane	1	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
124-48-1	Chlorodibromomethane	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylenes (total)	1	U
100-42-5	Styrene	1	U
75-25-2	Bromoform	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
BN08S9QS004

Lab Name: EA LABORATORIES Contract:

Lab Code: EA ENG Case No.: SAS No.: 8260 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 9702925

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: VH8B2106.D

Level: (low/med) Date Received: 3/22/97

% Moisture: not dec. Date Analyzed: 3/29/97

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
95-50-1	1,2-Dichlorobenzene	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BN08S9QS004

Lab Name: EA LABORATORIES Contract: _____

Lab Code: EA ENG Case No.: _____ SAS No.: 8260 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 9702925

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: VH8B2106.D

Level: (low/med) _____ Date Received: 3/22/97

% Moisture: not dec. _____ Date Analyzed: 3/29/97

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

Concentration Units: (ug/L or ug/Kg) ug/L

CAS Number	Compound Name	RT	Est. Conc.	Q
1.				
2.				
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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO:

08-S9-QS004

Lab Name: EA LABS Contract:

Lab Code: EAENG Case No: SAS No.: _____ SDG No:

Matrix: (soil/water) WATER Lab Sample ID: 9702925

Sample wt/vol: 1000 (g/mL) ML Lab File ID: SB2B3284

Level: (low/med) LOW Date Received: 03/22/97

% Moisture: _____ decanted: (Y/N) N Date Extracted: 03/25/97

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/27/97

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)ug/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO:

08-S9-QS004

Lab Name: EA LABS Contract:

Lab Code: EAENG Case No: SAS No.: _____ SDG No:

Matrix: (soil/water) WATER Lab Sample ID: 9702925

Sample wt/vol: 1000 (g/mL) ML Lab File ID: SB2B3284

Level: (low/med) LOW Date Received: 03/22/97

% Moisture: _____ decanted: (Y/N) N Date Extracted: 03/25/97

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/27/97

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)ug/L	Q
121-14-2	2,4-Dinitrotoluene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butyl phthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
218-01-9	Chrysene	10	U
117-84-0	Di-n-octyl phthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO:

08-S9-QS004

Lab Name: EA LABS Contract:

Lab Code: EAENG Case No: SAS No.: _____ SDG No:

Matrix: (soil/water) WATER Lab Sample ID: 9702925

Sample wt/vol: 1000 (g/mL) ML Lab File ID: SB2B3284

Level: (low/med) LOW Date Received: 03/22/97

% Moisture: _____ decanted: (Y/N) N Date Extracted: 03/25/97

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/27/97

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

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

Number TICS found: 2

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.123-42-2----	2-PENTANONE, 4-HYDROXY-4-MET	4.34	9	ABJN
2.----------	Unknown	4.62	6	BJ

FORM I SV-TIC 3/90

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
BN08S1QD001

Lab Name: EA LABORATORIES Contract:

Lab Code: EA ENG Case No.: SAS No.: 8260 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 9702551

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: VA1B1818.D

Level: (low/med) Date Received: 3/13/97

% Moisture: not dec. Date Analyzed: 3/16/97

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

Concentration Units: (ug/L or ug/Kg) ug/L

CAS No.	Compound		Q
74-87-3	Chloromethane	1	U
75-01-4	Vinyl Chloride	1	U
74-83-9	Bromomethane	1	U
75-00-3	Chloroethane	1	U
67-64-1	Acetone	5	U
75-35-4	1,1-Dichloroethene	1	U
75-09-2	Methylene Chloride	1	
75-15-0	Carbon Disulfide	1	U
75-34-3	1,1-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
540-59-0	1,2-Dichloroethene (total)	1	U
67-66-3	Chloroform	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
107-06-2	1,2-Dichloroethane	1	U
71-43-2	Benzene	1	U
79-01-6	Trichloroethene	1	U
78-87-5	1,2-Dichloropropane	1	U
75-27-4	Bromodichloromethane	1	U
108-10-1	4-Methyl-2-Pentanone	5	U
10061-01-5	cis-1,3-Dichloropropene	1	U
108-88-3	Toluene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
79-00-5	1,1,2-Trichloroethane	1	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
124-48-1	Chlorodibromomethane	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylenes (total)	1	U
100-42-5	Styrene	1	U
75-25-2	Bromoform	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BN08S1QD001

Lab Name: EA LABORATORIES Contract: _____

Lab Code: EA ENG Case No.: _____ SAS No.: 8260 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 9702551

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: VA1B1818.D

Level: (low/med) _____ Date Received: 3/13/97

% Moisture: not dec. _____ Date Analyzed: 3/16/97

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

Concentration Units: (ug/L or ug/Kg) ug/L

CAS No.	Compound		Q
95-50-1	1,2-Dichlorobenzene	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BN08S1QD001

Lab Name: EA LABORATORIES Contract: _____

Lab Code: EA ENG Case No.: _____ SAS No.: 8260 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 9702551

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: VA1B1818.D

Level: (low/med) _____ Date Received: 3/13/97

% Moisture: not dec. _____ Date Analyzed: 3/16/97

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

Concentration Units: (ug/L or ug/Kg) ug/L

CAS Number	Compound Name	RT	Est. Conc.	Q
1.				
2.				
3.				
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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO:

0851QD001

Lab Name: EA LABS Contract:

Lab Code: EAENG Case No: SAS No.: _____ SDG No:

Matrix: (soil/water) WATER Lab Sample ID: 9702551

Sample wt/vol: 1000 (g/mL) ML Lab File ID: SC3B2663

Level: (low/med) LOW Date Received: 03/13/97

% Moisture: _____ decanted: (Y/N) N Date Extracted: 03/14/97

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/17/97

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)ug/L	Q
108-95-2	Phenol	4	U
111-44-4	bis-(2-Chloroethyl) ether	4	U
95-57-8	2-Chlorophenol	4	U
541-73-1	1,3-Dichlorobenzene	4	U
106-46-7	1,4-Dichlorobenzene	4	U
95-50-1	1,2-Dichlorobenzene	4	U
95-48-7	2-Methylphenol	3	U
108-60-1	2,2'-Oxybis(1-chloropropane)	4	U
106-44-5	4-Methylphenol	3	U
621-64-7	N-Nitroso-Di-n-propylamine	3	U
67-72-1	Hexachloroethane	4	U
98-95-3	Nitrobenzene	4	U
78-59-1	Isophorone	2	U
88-75-5	2-Nitrophenol	4	U
105-67-9	2,4-Dimethylphenol	4	U
111-91-1	bis(2-Chloroethoxy)methane	4	U
120-83-2	2,4-Dichlorophenol	3	U
120-82-1	1,2,4-Trichlorobenzene	5	U
91-20-3	Naphthalene	5	U
106-47-8	4-Chloroaniline	6	U
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-methylphenol	1	U
91-57-6	2-Methylnaphthalene	4	U
77-47-4	Hexachlorocyclopentadiene	3	U
88-06-2	2,4,6-Trichlorophenol	2	U
95-95-4	2,4,5-Trichlorophenol	2	U
91-58-7	2-Chloronaphthalene	3	U
88-74-4	2-Nitroaniline	1	U
131-11-3	Dimethylphthalate	4	U
208-96-8	Acenaphthylene	2	U
99-09-2	3-Nitroaniline	4	U
83-32-9	Acenaphthene	3	U
51-28-5	2,4-Dinitrophenol	2	U
100-02-7	4-Nitrophenol	1	U
132-64-9	Dibenzofuran	2	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO:

0851QD001

Lab Name: EA LABS Contract:

Lab Code: EAENG Case No: SAS No.: _____ SDG No:

Matrix: (soil/water) WATER Lab Sample ID: 9702551

Sample wt/vol: 1000 (g/mL) ML Lab File ID: SC3B2663

Level: (low/med) LOW Date Received: 03/13/97

% Moisture: _____ decanted: (Y/N) N Date Extracted: 03/14/97

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/17/97

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)ug/L	Q
121-14-2	2,4-Dinitrotoluene	1	U
606-20-2	2,6-Dinitrotoluene	1	U
84-66-2	Diethylphthalate	3	U
7005-72-3	4-Chlorophenyl-phenylether	3	U
86-73-7	Fluorene	2	U
100-01-6	4-Nitroaniline	3	U
534-52-1	4,6-Dinitro-2-methylphenol	2	U
86-30-6	N-Nitrosodiphenylamine	2	U
101-55-3	4-Bromophenyl-phenylether	3	U
118-74-1	Hexachlorobenzene	3	U
87-86-5	Pentachlorophenol	2	U
85-01-8	Phenanthrene	2	U
120-12-7	Anthracene	2	U
86-74-8	Carbazole	2	U
84-74-2	Di-n-butyl phthalate	2	U
206-44-0	Fluoranthene	2	U
129-00-0	Pyrene	1	U
85-68-7	Butylbenzyl phthalate	2	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benz[a]anthracene	1	U
117-81-7	bis(2-Ethylhexyl)phthalate	7	U
218-01-9	Chrysene	2	U
117-84-0	Di-n-octyl phthalate	2	U
205-99-2	Benzo[b]fluoranthene	2	U
207-08-9	Benzo[k]fluoranthene	2	U
50-32-8	Benzo[a]pyrene	1	U
193-39-5	Indeno[1,2,3-cd]pyrene	1	U
53-70-3	Dibenz[ah]anthracene	2	U
191-24-2	Benzo[ghi]perylene	1	U

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO:

0851QD001

Lab Name: EA LABS Contract:

Lab Code: EAENG Case No: SAS No.: _____ SDG No:

Matrix: (soil/water) WATER Lab Sample ID: 9702551

Sample wt/vol: 1000 (g/mL) ML Lab File ID: SC3B2663

Level: (low/med) LOW Date Received: 03/13/97

% Moisture: _____ decanted: (Y/N) N Date Extracted: 03/14/97

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/17/97

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

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

Number TICS found: 3

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.----------	Unknown	3.84	15	BJ
2.000123-42-2-	2-Pentanone,4-hydroxy-4-meth	4.63	4	ABJN
3.----------	Unknown	4.91	7	J

Appendix D.4

Leachate Seep and Sediment Samples
Site 9

APPENDIX D.4

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

Sample Designation	Sample Station
LT-901 (Seep) Samples	
S9-LT001	LT-901
S9-SWXD1	LT-901 (DUP)
LT-901 (Sediment) Samples	
S9-LTSD1	LT-901
S9-SDXD2	LT-901 (DUP)
Trip Blank	
S9-QT-005	QT-005
Rinsate Blanks	
S9-QS-003	QS-003
S9-QS-004	QS-004
Source Water Blank	
S1-QD-001	QD-001

Chain of Custody Record

EA Laboratories
19 Loveton Circle
Sparks, MD 21152
Telephone: (410) 771-4920
Fax: (410) 771-4407

Company Name: EA Engineering
Project No. 2960047
Dept.: 5300 Task: 7301
Sampl Storage Location: I10/VOA Walkin

Project Manager or Contact: Mike Battle
Phone: 914-565-8100
Project Name: LTMP Event 8
ATO Number:

Page 1 of 1 Report #: 970392

Report D liv rables: 1 2 3 4 D E
EDD: Yes/No QPRO Pro
DUE TO CLIENT: Hardcopy due 4/22/97
EDDs due 5/6/97

Parameters/Method Numbers for Analysis

Date	Time	Water	Soil	Sample Identification 19 Characters	No. of Containers	TCL List plus TICs	VOC by 8260	TAL Elements	SVOC by 8270 + TICs		EA Labs Accession Number	Remarks
3/21/97	0800	X		BN-08-S9-QS003 3	5	X	X	X	pu 3/22/97		9702924	LPM: MEA
3/21/97	0815	X		BN-08-S9-QS004 5	3	X	X	X	ku 3/22/97		9702925	COC 0000439
3/21/97	0908	X		BN-08-S9-SW001	2	X					9702926	Samples start SDG
3/21/97	0927	X		BN-08-S9-SW002	2	X					9702927	# BN-08-S9-QS003,
3/21/97	0956	X		BN-08-S9-SW003	2	X					9702928	all samples batched
				~~BN-08-S9-SW004~~		Bt					—	under that SDG.
3/21/97	1025	X		BN-08-S9-LT001	8	X	X		MS/MSD		9702929	SDG ends with
3/21/97	—	X		BN-08-S9-SWXD1	3	X	X				9702930	Sample BN-08-S9-
3/21/97	0800	X		BN-08-S9-QT005	2	X					9702931	SWXD1.

Follow Project Summary Requirements
We must report to MDLs

Temp blank included
L11338
VOC by 8260 plus library search
TAL Elements by Refer to Table 7-1 in QAPP.
SVOCs by 8270 plus library search.
NCR 4-1215

Samples by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
Brian Anderson	3/21/97 1025				

Relinquished by: (Signature)	Date/Time	Received by Laboratory: (Signatur)	Date/Time	Airbill Number:	Sample Shipped by: (Circle)
Brian W. Anderson	3/21/97 1530	Archer	3/22/97 1030	3161399861	Fed Ex. Puro. UPS Hand Carried Other:

Cooler Temp. 1.7 C pH: X Y s ☐ No Comments: C2 Custody Seals Intact X Yes ☐ No

NOTE: Please indicate method number for analyses requested. This will help clarify any questions with laboratory techniques.

WHITE—EA Laboratories YELLOW—EA Laboratories PINK—Project Manager Shaded Areas for Lab Use Only

Company Name: EA Engineering	Project Manager or Contact: Mike Battle Phone: 914-565-8100
Project No. 2960047	Project Name: Brunswick LTMP-Event 8
Dept.: 5300 Task: 7301	
Sample Storage Location: I10	ATO Number:
Page 1 of 1	Report #: 970394

Chain of Custody Record

EA Laboratories
19 Loveton Circle
Sparks, MD 21152
Telephone: (410) 771-4920
Fax: (410) 771-4407

Report Deliverables: 1 2 3 4 D E

EDD Yes/No PRO PIO

DUE TO CLIENT: Hard copy due 4/22/97
EDDs due 5/2/97

Parameters/Method Numbers for Analysis

Date	Time	Water	Soil	Sample Identification 19 Characters	No. of Containers	VOC by 8260	TAL Elements SW846 Metals	6010/1000	EA Labs Accession Number	Remarks
3/21/97	1045		X	BN-08-S9-LTSD1	4	X	X		9702936	LPM: MARY E Asper
3/21/97	–		X	BN-08-S9-SDXD2	2	X	X		9702937	
										Start SDG with Sample BN-08-S9-LTSD1. End SDG with BN-08-S9-SDXD2.
										COC0000441
				Follow Project Summary Requirements Report to MDLs						L11336
										Temp blank included
										VOC by 8260 plus library search TAL Elements, refer to Table 7-1 in QAPP

Samples by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
Brian Anderson	3/21/97 1200				
Relinquished by: (Signature)	**Date/Time**	**Received by Laboratory: (Signature)**	**Date/Time**	**Airbill Number:**	**Sample Shipped by: (Circle)**
Brian D. Anderson	3/21/97 1530	Archer 3/22/97	1030	3161399861	Fed Ex. Puro. UPS

Cooler Temp 1.9-2C pH: [X] Yes [ ] No Comments: C2 Custody Seals Intact [X] Yes [ ] No

Hand Carried

Other:

NOTE: Please indicate method number for analyses requested. This will help clarify any questions with laboratory techniques.

WHITE—EA Laboratories YELLOW—EA Laboratories PINK—Project Manager *Shaded Areas for Lab Use Only*

100020

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
08S9LT001

Lab Name: EA LABORATORIES Contract:

Lab Code: EA ENG Case No.: SAS No.: 8260 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 9702929

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: VH8B2110.D

Level: (low/med) Date Received: 3/22/97

% Moisture: not dec. Date Analyzed: 3/29/97

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	1	U
75-01-4	Vinyl Chloride	1	U
74-83-9	Bromomethane	1	U
75-00-3	Chloroethane	1	U
67-64-1	Acetone	5	U
75-35-4	1,1-Dichloroethene	1	U
75-09-2	Methylene Chloride	1	U
75-15-0	Carbon Disulfide	1	U
75-34-3	1,1-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
540-59-0	1,2-Dichloroethene (total)	1	U
67-66-3	Chloroform	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
107-06-2	1,2-Dichloroethane	1	U
71-43-2	Benzene	1	U
79-01-6	Trichloroethene	1	U
78-87-5	1,2-Dichloropropane	1	U
75-27-4	Bromodichloromethane	1	U
108-10-1	4-Methyl-2-Pentanone	5	U
10061-01-5	cis-1,3-Dichloropropene	1	U
108-88-3	Toluene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
79-00-5	1,1,2-Trichloroethane	1	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
124-48-1	Chlorodibromomethane	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylenes (total)	1	U
100-42-5	Styrene	1	U
75-25-2	Bromoform	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

08S9LT001

Lab Name: EA LABORATORIES Contract:

Lab Code: EA ENG Case No.: SAS No.: 8260 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 9702929

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: VH8B2110.D

Level: (low/med) Date Received: 3/22/97

% Moisture: not dec. Date Analyzed: 3/29/97

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
95-50-1	1,2-Dichlorobenzene	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

08S9LT001

Lab Name: EA LABORATORIES Contract: _____

Lab Code: EA ENG Case No.: _____ SAS No.: 8260 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 9702929

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: VH8B2110.D

Level: (low/med) _____ Date Received: 3/22/97

% Moisture: not dec. _____ Date Analyzed: 3/29/97

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

Concentration Units: (ug/L or ug/Kg) ug/L

CAS Number	Compound Name	RT	Est. Conc.	Q
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EPA SW846

FORM 1
METALS ANALYSIS DATA SHEET

LAB SAMPLE NUMBER
T02929

Laboratory: EA LABORATORIES

SDG No.: T02773

Matrix: WATER

Client ID: BN08S9LT00

Percent Solids: 0.0

Date Received: 03/22/97

Results for: TAL metals

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	997			P
7440-36-0	Antimony	2.0	U		P
7440-38-2	Arsenic	2.0	U	W	F
7440-39-3	Barium	42.1	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	17900			P
7440-47-3	Chromium	6.0	U		P
7440-48-4	Cobalt	11.0	U		P
7440-50-8	Copper	6.0	U		P
7439-89-6	Iron	36600			P
7439-92-1	Lead	14.9			F
7439-95-4	Magnesium	2360			P
7439-96-5	Manganese	235			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	15.0	U		P
7440-09-7	Potassium	2250			P
7782-49-2	Selenium	1.0	U		F
7440-22-4	Silver	4.0	U	N	P
7440-23-5	Sodium	22200			P
7440-28-0	Thallium	1.0	U		F
7440-62-2	Vanadium	8.0	U		P
7440-66-6	Zinc	31.7			P

M = "P" ICP SW6010
M = "F" Graphite Furnace AA As by SW7060, Pb by SW7421, Se by SW7740, Tl by SW7841; Sb by 7041
M = "CV" Cold Vapor AA - waters by SW7470, soils by SW7471

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BN08S9SWXD1

Lab Name: EA LABORATORIES Contract: _____

Lab Code: EA ENG Case No.: _____ SAS No.: 8260 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 9702930

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: VH8B2113.D

Level: (low/med) _____ Date Received: 3/22/97

% Moisture: not dec. _____ Date Analyzed: 3/29/97

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

Concentration Units: (ug/L or ug/Kg) ug/L

CAS No.	Compound		Q
74-87-3	Chloromethane	1	U
75-01-4	Vinyl Chloride	1	U
74-83-9	Bromomethane	1	U
75-00-3	Chloroethane	1	U
67-64-1	Acetone	5	U
75-35-4	1,1-Dichloroethene	1	U
75-09-2	Methylene Chloride	1	U
75-15-0	Carbon Disulfide	1	U
75-34-3	1,1-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
540-59-0	1,2-Dichloroethene (total)	1	U
67-66-3	Chloroform	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
107-06-2	1,2-Dichloroethane	1	U
71-43-2	Benzene	1	U
79-01-6	Trichloroethene	1	U
78-87-5	1,2-Dichloropropane	1	U
75-27-4	Bromodichloromethane	1	U
108-10-1	4-Methyl-2-Pentanone	5	U
10061-01-5	cis-1,3-Dichloropropene	1	U
108-88-3	Toluene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
79-00-5	1,1,2-Trichloroethane	1	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
124-48-1	Chlorodibromomethane	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylenes (total)	1	U
100-42-5	Styrene	1	U
75-25-2	Bromoform	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BN08S9SWXD1

Lab Name: EA LABORATORIES Contract:

Lab Code: EA ENG Case No.: SAS No.: 8260 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 9702930

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: VH8B2113.D

Level: (low/med) Date Received: 3/22/97

% Moisture: not dec. Date Analyzed: 3/29/97

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

Concentration Units: (ug/L or ug/Kg) ug/L

CAS No.	Compound		Q
95-50-1	1,2-Dichlorobenzene	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BN08S9SWXD1

Lab Name: EA LABORATORIES Contract: _____

Lab Code: EA ENG Case No.: _____ SAS No.: 8260 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 9702930

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: VH8B2113.D

Level: (low/med) _____ Date Received: 3/22/97

% Moisture: not dec. _____ Date Analyzed: 3/29/97

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

Concentration Units: (ug/L or ug/Kg) ug/L

CAS Number	Compound Name	RT	Est. Conc.	Q
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EPA SW846

FORM 1
METALS ANALYSIS DATA SHEET

LAB SAMPLE NUMBER
T02930

Laboratory: EA LABORATORIES

SDG No.: T02773

Matrix: WATER

Client ID: BN08S9SWXD

Percent Solids: 0.0

Date Received: 03/22/97

Results for: TAL metals

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	2690			P
7440-36-0	Antimony	2.0	U		P
7440-38-2	Arsenic	4.2	B	W	F
7440-39-3	Barium	112	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	20800			P
7440-47-3	Chromium	9.3	B		P
7440-48-4	Cobalt	11.0	U		P
7440-50-8	Copper	6.0	U		P
7439-89-6	Iron	139000			P
7439-92-1	Lead	63.1			F
7439-95-4	Magnesium	3180			P
7439-96-5	Manganese	354			P
7439-97-6	Mercury	0.20	U	W	CV
7440-02-0	Nickel	15.0	U		P
7440-09-7	Potassium	2680			P
7782-49-2	Selenium	1.2	B		F
7440-22-4	Silver	4.0	U	N	P
7440-23-5	Sodium	22700			P
7440-28-0	Thallium	1.0	U		F
7440-62-2	Vanadium	14.8	B		P
7440-66-6	Zinc	76.3			P

M = "P" ICP SW6010
M = "F" Graphite Furnace AA As by SW7060, Pb by SW7421, Se by SW7740, Tl by SW7841, Sb by 7041
M = "CV" Cold Vapor AA - waters by SW7470, soils by SW7471

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BN08S9LTSD1

Lab Name: EA LABORATORIES Contract:

Lab Code: EA ENG Case No.: SAS No.: 8260 SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: 9702936

Sample wt/vol: 5.0 (g/mL) G Lab File ID: VA1B2180.D

Level: (low/med) LOW Date Received: 3/22/97

% Moisture: not dec. 55 Date Analyzed: 4/2/97

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/Kg	Q
74-87-3	Chloromethane	11	U
75-01-4	Vinyl Chloride	11	U
74-83-9	Bromomethane	11	U
75-00-3	Chloroethane	11	U
67-64-1	Acetone	78	
75-35-4	1,1-Dichloroethene	11	U
75-09-2	Methylene Chloride	11	U
75-15-0	Carbon Disulfide	11	U
75-34-3	1,1-Dichloroethane	11	U
78-93-3	2-Butanone	22	U
540-59-0	1,2-Dichloroethene (total)	11	U
67-66-3	Chloroform	11	U
71-55-6	1,1,1-Trichloroethane	11	U
56-23-5	Carbon Tetrachloride	11	U
107-06-2	1,2-Dichloroethane	11	U
71-43-2	Benzene	11	U
79-01-6	Trichloroethene	11	U
78-87-5	1,2-Dichloropropane	11	U
75-27-4	Bromodichloromethane	11	U
108-10-1	4-Methyl-2-Pentanone	22	U
10061-01-5	cis-1,3-Dichloropropene	11	U
108-88-3	Toluene	11	U
10061-02-6	trans-1,3-Dichloropropene	11	U
79-00-5	1,1,2-Trichloroethane	11	U
591-78-6	2-Hexanone	22	U
127-18-4	Tetrachloroethene	11	U
124-48-1	Chlorodibromomethane	11	U
108-90-7	Chlorobenzene	11	U
100-41-4	Ethylbenzene	11	U
1330-20-7	Xylenes (total)	11	U
100-42-5	Styrene	11	U
75-25-2	Bromoform	11	U
79-34-5	1,1,2,2-Tetrachloroethane	11	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BN08S9LTSD1

Lab Name: EA LABORATORIES Contract:

Lab Code: EA ENG Case No.: SAS No.: 8260 SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: 9702936

Sample wt/vol: 5.0 (g/mL) G Lab File ID: VA1B2180.D

Level: (low/med) LOW Date Received: 3/22/97

% Moisture: not dec. 55 Date Analyzed: 4/2/97

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

Concentration Units: (ug/L or ug/Kg) ug/Kg

CAS No.	Compound		Q
95-50-1	1,2-Dichlorobenzene	11	U
541-73-1	1,3-Dichlorobenzene	11	U
106-46-7	1,4-Dichlorobenzene	11	U

030012

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BN08S9LTSD1

Lab Name: EA LABORATORIES Contract: _____

Lab Code: EA ENG Case No.: _____ SAS No.: 8260 SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 9702936

Sample wt/vol: 5.0 (g/mL) G Lab File ID: VA1B2180.D

Level: (low/med) LOW Date Received: 3/22/97

% Moisture: not dec. 55 Date Analyzed: 4/2/97

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

Concentration Units: (ug/L or ug/Kg) ug/Kg

CAS Number	Compound Name	RT	Est. Conc.	Q
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030013

EPA SW846

FORM 1
METALS ANALYSIS DATA SHEET

LAB SAMPLE NUMBER
T02936

Laboratory: EA LABORATORIES

SDG No.: T02936

Matrix: SOIL

Client ID: BN-08-S9-LTSD1

Percent Solids: 44.5

Date Received: 03/22/97

Results for: TOTAL metals

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	5910			P
7440-36-0	Antimony	0.46	B	N	P
7440-38-2	Arsenic	2.8			F
7440-39-3	Barium	36.4	B		P
7440-41-7	Beryllium	0.25	B		P
7440-43-9	Cadmium	2.7			P
7440-70-2	Calcium	1640		*	P
7440-47-3	Chromium	16.6		*	P
7440-48-4	Cobalt	3.1	B		P
7440-50-8	Copper	12.8			P
7439-89-6	Iron	10500		*	P
7439-92-1	Lead	135			P
7439-95-4	Magnesium	2460		N*	P
7439-96-5	Manganese	85.7			P
7439-97-6	Mercury	0.25	U		CV
7440-02-0	Nickel	10.9			P
7440-09-7	Potassium	1160		*	P
7782-49-2	Selenium	0.22	U		F
7440-22-4	Silver	0.89	U		P
7440-23-5	Sodium	276			P
7440-28-0	Thallium	0.22	U		F
7440-62-2	Vanadium	19.6			P
7440-66-6	Zinc	61.9			P

M = "P" ICP SW6010
M = "F" Graphite Furnace AA As by SW7060, Pb by SW7421, Se by SW7740, Tl by SW7841, Sb by 7041
M = "CV" Cold Vapor AA - waters by SW7470, soils by SW7471

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BN08S9SDXD2

Lab Name: EA LABORATORIES Contract:

Lab Code: EA ENG Case No.: SAS No.: 8260 SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: 9702937

Sample wt/vol: 5.0 (g/mL) G Lab File ID: VA1B2181.D

Level: (low/med) LOW Date Received: 3/22/97

% Moisture: not dec. 35 Date Analyzed: 4/2/97

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/Kg	Q
74-87-3	Chloromethane	8	U
75-01-4	Vinyl Chloride	8	U
74-83-9	Bromomethane	8	U
75-00-3	Chloroethane	8	U
67-64-1	Acetone	15	U
75-35-4	1,1-Dichloroethene	8	U
75-09-2	Methylene Chloride	8	U
75-15-0	Carbon Disulfide	8	U
75-34-3	1,1-Dichloroethane	8	U
78-93-3	2-Butanone	15	U
540-59-0	1,2-Dichloroethene (total)	8	U
67-66-3	Chloroform	8	U
71-55-6	1,1,1-Trichloroethane	8	U
56-23-5	Carbon Tetrachloride	8	U
107-06-2	1,2-Dichloroethane	8	U
71-43-2	Benzene	8	U
79-01-6	Trichloroethene	8	U
78-87-5	1,2-Dichloropropane	8	U
75-27-4	Bromodichloromethane	8	U
108-10-1	4-Methyl-2-Pentanone	15	U
10061-01-5	cis-1,3-Dichloropropene	8	U
108-88-3	Toluene	8	U
10061-02-6	trans-1,3-Dichloropropene	8	U
79-00-5	1,1,2-Trichloroethane	8	U
591-78-6	2-Hexanone	15	U
127-18-4	Tetrachloroethene	8	U
124-48-1	Chlorodibromomethane	8	U
108-90-7	Chlorobenzene	8	U
100-41-4	Ethylbenzene	8	U
1330-20-7	Xylenes (total)	8	U
100-42-5	Styrene	8	U
75-25-2	Bromoform	8	U
79-34-5	1,1,2,2-Tetrachloroethane	8	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BN08S9SDXD2

Lab Name: EA LABORATORIES Contract:

Lab Code: EA ENG Case No.: SAS No.: 8260 SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: 9702937

Sample wt/vol: 5.0 (g/mL) G Lab File ID: VA1B2181.D

Level: (low/med) LOW Date Received: 3/22/97

% Moisture: not dec. 35 Date Analyzed: 4/2/97

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/Kg	Q
95-50-1	1,2-Dichlorobenzene	8	U
541-73-1	1,3-Dichlorobenzene	8	U
106-46-7	1,4-Dichlorobenzene	8	U

030022

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BN08S9SDXD2

Lab Name: EA LABORATORIES Contract: _____

Lab Code: EA ENG Case No.: _____ SAS No.: 8260 SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 9702937

Sample wt/vol: 5.0 (g/mL) G Lab File ID: VA1B2181.D

Level: (low/med) LOW Date Received: 3/22/97

% Moisture: not dec. 35 Date Analyzed: 4/2/97

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

Concentration Units: (ug/L or ug/Kg) ug/Kg

CAS Number	Compound Name	RT	Est. Conc.	Q
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030023

EPA SW846

FORM 1
METALS ANALYSIS DATA SHEET

LAB SAMPLE NUMBER

T02937

Laboratory: EA LABORATORIES

SDG No.: T02936

Matrix: SOIL

Client ID: BN-08-S9-SDXD2

Percent Solids: 65.0

Date Received: 03/22/97

Results for: TOTAL metals

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4500			P
7440-36-0	Antimony	0.29	U	N	P
7440-38-2	Arsenic	4.0			F
7440-39-3	Barium	16.1	B		P
7440-41-7	Beryllium	0.15	U		P
7440-43-9	Cadmium	2.5			P
7440-70-2	Calcium	1090		*	P
7440-47-3	Chromium	11.5		*	P
7440-48-4	Cobalt	3.2	B		P
7440-50-8	Copper	11.8			P
7439-89-6	Iron	9430		*	P
7439-92-1	Lead	96.8			P
7439-95-4	Magnesium	2030		N*	P
7439-96-5	Manganese	82.8			P
7439-97-6	Mercury	0.17	U		CV
7440-02-0	Nickel	9.1			P
7440-09-7	Potassium	581		*	P
7782-49-2	Selenium	0.17	B		F
7440-22-4	Silver	0.58	U		P
7440-23-5	Sodium	162			P
7440-28-0	Thallium	0.15	U		F
7440-62-2	Vanadium	16.5			P
7440-66-6	Zinc	62.9			P

M = "P" ICP SW6010
M = "F" Graphite Furnace AA As by SW7060, Pb by SW7421, Se by SW7740, Tl by SW7841, Sb by 7041
M = "CV" Cold Vapor AA - waters by SW7470, soils by SW7471

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BN08S9QT005

Lab Name: EA LABORATORIES Contract:

Lab Code: EA ENG Case No.: SAS No.: 8260 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 9702931

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: VH8B2104.D

Level: (low/med) Date Received: 3/22/97

% Moisture: not dec. Date Analyzed: 3/29/97

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	1	U
75-01-4	Vinyl Chloride	1	U
74-83-9	Bromomethane	1	U
75-00-3	Chloroethane	1	U
67-64-1	Acetone	5	U
75-35-4	1,1-Dichloroethene	1	U
75-09-2	Methylene Chloride	1	U
75-15-0	Carbon Disulfide	1	U
75-34-3	1,1-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
540-59-0	1,2-Dichloroethene (total)	1	U
67-66-3	Chloroform	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
107-06-2	1,2-Dichloroethane	1	U
71-43-2	Benzene	1	U
79-01-6	Trichloroethene	1	U
78-87-5	1,2-Dichloropropane	1	U
75-27-4	Bromodichloromethane	1	U
108-10-1	4-Methyl-2-Pentanone	5	U
10061-01-5	cis-1,3-Dichloropropene	1	U
108-88-3	Toluene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
79-00-5	1,1,2-Trichloroethane	1	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
124-48-1	Chlorodibromomethane	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylenes (total)	1	U
100-42-5	Styrene	1	U
75-25-2	Bromoform	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BN08S9QT005

Lab Name: EA LABORATORIES Contract:

Lab Code: EA ENG Case No.: SAS No.: 8260 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 9702931

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: VH8B2104.D

Level: (low/med) Date Received: 3/22/97

% Moisture: not dec. Date Analyzed: 3/29/97

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
95-50-1	1,2-Dichlorobenzene	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U

IE

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BN08S9QT005

Lab Name: EA LABORATORIES Contract: _____

Lab Code: EA ENG Case No.: _____ SAS No.: 8260 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 9702931

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: VH8B2104.D

Level: (low/med) _____ Date Received: 3/22/97

% Moisture: not dec. _____ Date Analyzed: 3/29/97

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

Concentration Units: (ug/L or ug/Kg) ug/L

CAS Number	Compound Name	RT	Est. Conc.	Q
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BN08S9QS003

Lab Name: EA LABORATORIES Contract: _____

Lab Code: EA ENG Case No.: _____ SAS No.: 8260 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 9702924

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: VH8B2105.D

Level: (low/med) _____ Date Received: 3/22/97

% Moisture: not dec. _____ Date Analyzed: 3/29/97

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	1	U
75-01-4	Vinyl Chloride	1	U
74-83-9	Bromomethane	1	U
75-00-3	Chloroethane	1	U
67-64-1	Acetone	5	U
75-35-4	1,1-Dichloroethene	1	U
75-09-2	Methylene Chloride	2	
75-15-0	Carbon Disulfide	1	U
75-34-3	1,1-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
540-59-0	1,2-Dichloroethene (total)	1	U
67-66-3	Chloroform	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
107-06-2	1,2-Dichloroethane	1	U
71-43-2	Benzene	1	U
79-01-6	Trichloroethene	1	U
78-87-5	1,2-Dichloropropane	1	U
75-27-4	Bromodichloromethane	1	U
108-10-1	4-Methyl-2-Pentanone	5	U
10061-01-5	cis-1,3-Dichloropropene	1	U
108-88-3	Toluene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
79-00-5	1,1,2-Trichloroethane	1	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
124-48-1	Chlorodibromomethane	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylenes (total)	1	U
100-42-5	Styrene	1	U
75-25-2	Bromoform	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
BN08S9QS003

Lab Name: EA LABORATORIES Contract:

Lab Code: EA ENG Case No.: SAS No.: 8260 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 9702924

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: VH8B2105.D

Level: (low/med) Date Received: 3/22/97

% Moisture: not dec. Date Analyzed: 3/29/97

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
95-50-1	1,2-Dichlorobenzene	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BN08S9QS003

Lab Name: EA LABORATORIES Contract: _____

Lab Code: EA ENG Case No.: _____ SAS No.: 8260 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 9702924

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: VH8B2105.D

Level: (low/med) _____ Date Received: 3/22/97

% Moisture: not dec. _____ Date Analyzed: 3/29/97

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

Concentration Units: (ug/L or ug/Kg) ug/L

CAS Number	Compound Name	RT	Est. Conc.	Q
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EPA SW846

FORM 1
METALS ANALYSIS DATA SHEET

LAB SAMPLE NUMBER

T02924

Laboratory: EA LABORATORIES

SDG No.: T02773

Matrix: WATER

Client ID: BN08S9QS00

Percent Solids: 0.0

Date Received: 03/22/97

Results for: TAL metals

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	25.0	U		P
7440-36-0	Antimony	2.0	U		P
7440-38-2	Arsenic	2.0	U	W	F
7440-39-3	Barium	22.0	U		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	188	B		P
7440-47-3	Chromium	6.0	U		P
7440-48-4	Cobalt	11.0	U		P
7440-50-8	Copper	6.0	U		P
7439-89-6	Iron	40.0	U		P
7439-92-1	Lead	1.1	B		F
7439-95-4	Magnesium	85.0	U		P
7439-96-5	Manganese	6.0	U		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	15.0	U		P
7440-09-7	Potassium	63.0	U		P
7782-49-2	Selenium	1.0	U		F
7440-22-4	Silver	4.0	U	N	P
7440-23-5	Sodium	468	B		P
7440-28-0	Thallium	1.0	U		F
7440-62-2	Vanadium	8.0	U		P
7440-66-6	Zinc	12.0	U		P

M = "P" ICP SW6010
M = "F" Graphite Furnace AA As by SW7060, Pb by SW7421, Se by SW7740, Tl by SW7841, Sb by 7041
= "CV" Cold Vapor AA - waters by SW7470, soils by SW7471

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BN08S9QS004

Lab Name: EA LABORATORIES Contract:

Lab Code: EA ENG Case No.: SAS No.: 8260 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 9702925

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: VH8B2106.D

Level: (low/med) Date Received: 3/22/97

% Moisture: not dec. Date Analyzed: 3/29/97

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

Concentration Units: (ug/L or ug/Kg) ug/L

CAS No.	Compound		Q
74-87-3	Chloromethane	1	U
75-01-4	Vinyl Chloride	1	U
74-83-9	Bromomethane	1	U
75-00-3	Chloroethane	1	U
67-64-1	Acetone	5	U
75-35-4	1,1-Dichloroethene	1	U
75-09-2	Methylene Chloride	1	
75-15-0	Carbon Disulfide	1	U
75-34-3	1,1-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
540-59-0	1,2-Dichloroethene (total)	1	U
67-66-3	Chloroform	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
107-06-2	1,2-Dichloroethane	1	U
71-43-2	Benzene	1	U
79-01-6	Trichloroethene	1	U
78-87-5	1,2-Dichloropropane	1	U
75-27-4	Bromodichloromethane	1	U
108-10-1	4-Methyl-2-Pentanone	5	U
10061-01-5	cis-1,3-Dichloropropene	1	U
108-88-3	Toluene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
79-00-5	1,1,2-Trichloroethane	1	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
124-48-1	Chlorodibromomethane	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylenes (total)	1	U
100-42-5	Styrene	1	U
75-25-2	Bromoform	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BN08S9QS004

Lab Name: EA LABORATORIES Contract:

Lab Code: EA ENG Case No.: SAS No.: 8260 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 9702925

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: VH8B2106.D

Level: (low/med) Date Received: 3/22/97

% Moisture: not dec. Date Analyzed: 3/29/97

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

Concentration Units: (ug/L or ug/Kg) ug/L

CAS No.	Compound.		Q
95-50-1	1,2-Dichlorobenzene	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BN08S9QS004

Lab Name: EA LABORATORIES Contract: _____

Lab Code: EA ENG Case No.: _____ SAS No.: 8260 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 9702925

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: VH8B2106.D

Level: (low/med) _____ Date Received: 3/22/97

% Moisture: not dec. _____ Date Analyzed: 3/29/97

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

Concentration Units:

Number TICs found: 0 (ug/L or ug/Kg) ug/L

CAS Number	Compound Name	RT	Est. Conc.	Q
1.				
2.				
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EPA SW846

FORM 1
METALS ANALYSIS DATA SHEET

LAB SAMPLE NUMBER

T02925

Laboratory: EA LABORATORIES

SDG No.: T02773

Matrix: WATER

Client ID: BN08S9QS00

Percent Solids: 0.0

Date Received: 03/22/97

Results for: TAL metals

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	25.0	U		P
7440-36-0	Antimony	2.0	U		P
7440-38-2	Arsenic	2.0	U	W	F
7440-39-3	Barium	22.0	U		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	208	B		P
7440-47-3	Chromium	6.0	U		P
7440-48-4	Cobalt	11.0	U		P
7440-50-8	Copper	6.0	U		P
7439-89-6	Iron	40.0	U		P
7439-92-1	Lead	1.0	U		F
7439-95-4	Magnesium	85.0	U		P
7439-96-5	Manganese	6.0	U		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	15.0	U		P
7440-09-7	Potassium	63.0	U		P
7782-49-2	Selenium	1.0	U		F
7440-22-4	Silver	4.0	U	N	P
7440-23-5	Sodium	739	B		P
7440-28-0	Thallium	1.0	U		F
7440-62-2	Vanadium	8.0	U		P
7440-66-6	Zinc	12.0	U		P

M = "P" ICP SW6010
M = "F" Graphite Furnace AA As by SW7060, Pb by SW7421, Se by SW7740, Tl by SW7841, Sb by 7041
= "CV" Cold Vapor AA - waters by SW7470, soils by SW7471

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BN08S1QD001

Lab Name: EA LABORATORIES Contract:

Lab Code: EA ENG Case No.: SAS No.: 8260 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 9702551

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: VA1B1818.D

Level: (low/med) Date Received: 3/13/97

% Moisture: not dec. Date Analyzed: 3/16/97

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

Concentration Units: (ug/L or ug/Kg) ug/L

CAS No.	Compound		Q
74-87-3	Chloromethane	1	U
75-01-4	Vinyl Chloride	1	U
74-83-9	Bromomethane	1	U
75-00-3	Chloroethane	1	U
67-64-1	Acetone	5	U
75-35-4	1,1-Dichloroethene	1	U
75-09-2	Methylene Chloride	1	
75-15-0	Carbon Disulfide	1	U
75-34-3	1,1-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
540-59-0	1,2-Dichloroethene (total)	1	U
67-66-3	Chloroform	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
107-06-2	1,2-Dichloroethane	1	U
71-43-2	Benzene	1	U
79-01-6	Trichloroethene	1	U
78-87-5	1,2-Dichloropropane	1	U
75-27-4	Bromodichloromethane	1	U
108-10-1	4-Methyl-2-Pentanone	5	U
10061-01-5	cis-1,3-Dichloropropene	1	U
108-88-3	Toluene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
79-00-5	1,1,2-Trichloroethane	1	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
124-48-1	Chlorodibromomethane	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylenes (total)	1	U
100-42-5	Styrene	1	U
75-25-2	Bromoform	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BN08S1QD001

Lab Name: EA LABORATORIES Contract: _____

Lab Code: EA ENG Case No.: _____ SAS No.: 8260 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 9702551

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: VA1B1818.D

Level: (low/med) _____ Date Received: 3/13/97

% Moisture: not dec. _____ Date Analyzed: 3/16/97

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

Concentration Units: (ug/L or ug/Kg) ug/L

CAS No.	Compound		Q
95-50-1	1,2-Dichlorobenzene	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BN08S1QD001

Lab Name: EA LABORATORIES Contract:

Lab Code: EA ENG Case No.: SAS No.: 8260 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 9702551

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: VA1B1818.D

Level: (low/med) Date Received: 3/13/97

% Moisture: not dec. Date Analyzed: 3/16/97

GC Column: RTX 502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

Concentration Units: (ug/L or ug/Kg) ug/L

CAS Number	Compound Name	RT	Est. Conc.	Q
1.				
2.				
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EPA SW846

FORM 1
METALS ANALYSIS DATA SHEET

LAB SAMPLE NUMBER

T02551

Laboratory: EA LABORATORIES

SDG No.: T02551

Matrix: WATER

Client ID: S1-QD001

Percent Solids: 0.0

Date Received: 03/13/97

Results for: TOTAL metals

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	25.0	U	E	P
7440-36-0	Antimony	2.0	U		P
7440-38-2	Arsenic	2.0	U		F
7440-39-3	Barium	22.0	U		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	102	B	E	P
7440-47-3	Chromium	6.0	U		P
7440-48-4	Cobalt	11.0	U		P
7440-50-8	Copper	6.0	U		P
7439-89-6	Iron	40.0	U		P
7439-92-1	Lead	1.0	U	W	F
7439-95-4	Magnesium	85.0	U	E	P
7439-96-5	Manganese	6.0	U		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	15.0	U		P
7440-09-7	Potassium	63.0	U		P
7782-49-2	Selenium	1.0	U		F
7440-22-4	Silver	3.0	U		P
7440-23-5	Sodium	560	B	E	P
7440-28-0	Thallium	1.0	U		F
7440-62-2	Vanadium	8.0	U		P
7440-66-6	Zinc	12.0	U		P

M = "P" ICP SW6010
M = "F" Graphite Furnace AA As by SW7060, Pb by SW7421, Se by SW7740, Tl by SW7841, Sb by 7041
M = "CV" Cold Vapor AA - waters by SW7470, soils by SW7471

Appendix D.5

MS/MSD Recovery Reports

MS\MSD Recovery Report

Lab Name : EA Laboratories Instrument: VH8

Sample : 9702972,BN-08-S9-MW001 Date Analyzed: 30 Mar 97

Matrix : WATER Date Sampled:

Client : Project : Method : 826025.M

Compound	Sample Conc	Spike Added	Spike Res	Dup Res	Spike %Rec	Dup %Rec	RPD	QC Limits RPD	QC Limits % Rec
1,1-Dichloroethene	0.0	10	11	11	105	105	0	20	75-118
Benzene	0.0	10	11	11	108	109	1	20	78-123
Trichloroethene	0.0	10	10	10	104	103	0	20	73-122
Toluene	0.0	10	11	11	108	107	1	20	77-122
Chlorobenzene	0.0	10	11	11	106	108	2	20	79-123

* - Indicates values outside of QC limits

Comments

SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: EA LABORATORIES Contract: _____

Lab Code: EA ENG Case No.: _____ Method: 8260 SDG No.: _____

Matrix Spike - EPA Sample No.: 08S9SD001 Level: (low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
1,1-Dichloroethene	78	0	73	94	(59-172)
Benzene	78	0	72	92	(66-142)
Trichloroethene	78	0	63	81	(62-137)
Toluene	78	0	69	88	(59-139)
Chlorobenzene	78	0	70	90	(60-133)

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MS % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	78	75	96	3	22	(59-172)
Benzene	78	69	88	4	21	(66-142)
Trichloroethene	78	61	78	3	24	(62-137)
Toluene	78	70	90	1	21	(59-139)
Chlorobenzene	78	69	88	1	21	(60-133)

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 5 outside limits
Spike Recovery: 0 out of 10 outside limits

Comments: _____

030003

MS\MSD Recovery Report

Lab Name : EA Laboratories Instrument: VH8

Sample : 9702929,BN-08-S9-LT001 Date Analyzed: 29 Mar 97

Matrix : WATER Date Sampled:

Client : Project : Method : 826025.M

Compound	Sample Conc	Spike Added	Spike Res	Dup Res	Spike %Rec	Dup %Rec	RPD	QC Limits RPD	QC Limits % Rec
1,1-Dichloroethene	0.0	10	11	11	105	109	4	14 ~~20~~	61 ~~75-118~~ 145
Benzene	0.0	10	11	11	112	115	2	11 ~~20~~	76 ~~78-123~~ 127
Trichloroethene	0.0	10	10	11	103	110	6	14 ~~20~~	71 ~~73-122~~ 120
Toluene	0.0	10	11	12	109	116	7	13 ~~20~~	76 ~~77-122~~ 125
Chlorobenzene	0.0	10	11	11	108	115	6	13 ~~20~~	75 ~~79-123~~ 130

* - Indicates values outside of QC limits

Comments CB 4/17/97

SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: EA LABORATORIES Contract: _____

Lab Code: EA ENG Case No.: _____ Method: 8260 SDG No.: _____

Matrix Spike - EPA Sample No.: 08S9SD001 Level: (low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
1,1-Dichloroethene	78	0	73	94	(59-172)
Benzene	78	0	72	92	(66-142)
Trichloroethene	78	0	63	81	(62-137)
Toluene	78	0	69	88	(59-139)
Chlorobenzene	78	0	70	90	(60-133)

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MS % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	78	75	96	3	22	(59-172)
Benzene	78	69	88	4	21	(66-142)
Trichloroethene	78	61	78	3	24	(62-137)
Toluene	78	70	90	1	21	(59-139)
Chlorobenzene	78	69	88	1	21	(60-133)

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 5 outside limits
Spike Recovery: 0 out of 10 outside limits

Comments: _____

3D

SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: EA LABS Contract:

Lab Code: EAENG Case No.: SAS No.: _____ SDG No.:

Matrix Spike - EPA Sample No.: SD001 Level:(low/med): LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
Phenol	6667	0.00	7663.72	115*	26- 90
2-Chlorophenol	6667	0.00	6022.93	90	25-102
1,4-Dichlorobenzene	3333	0.00	2368.13	71	28-104
N-Nitroso-Di-n-Prop.(1)	3333	0.00	4883.44	147*	41-126
1,2,4-Trichlorobenzene	3333	0.00	3189.87	96	38-107
4-Chloro-3-Methylphenol	6667	0.00	6492.70	97	26-103
Acenaphthene	3333	0.00	3166.71	95	31-137
4-Nitrophenol	6667	0.00	6268.04	94	11-114
2,4-Dinitrotoluene	3333	0.00	2948.63	88	28- 89
Pentachlorophenol	6667	0.00	5854.57	88	17-109
Pyrene	3333	1785.10	6934.52	154*	35-142

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	6667	8020.44	120*	5	35	26- 90
2-Chlorophenol	6667	6269.29	94	4	50	25-102
1,4-Dichlorobenzene	3333	2703.03	81	13	27	28-104
N-Nitroso-Di-n-Prop.(1)	3333	5154.76	155*	5	38	41-126
1,2,4-Trichlorobenzene	3333	3525.62	106	10	23	38-107
4-Chloro-3-Methylphenol	6667	6841.09	103	5	33	26-103
Acenaphthene	3333	3093.28	93	2	19	31-137
4-Nitrophenol	6667	6083.49	91	3	50	11-114
2,4-Dinitrotoluene	3333	3079.31	92*	4	47	28- 89
Pentachlorophenol	6667	5823.42	87	1	47	17-109
Pyrene	3333	12484.10	321*	57*	36	35-142

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 1 out of 11 outside limits
Spike Recovery: 7 out of 22 outside limits

Comments: _____

3C

WATER SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: EA LABS Contract:

Lab Code: EAENG Case No.: SAS No.: _____ SDG No.:

Matrix Spike - EPA Sample No.: 08-S9-QS004

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC. LIMITS REC.
Phenol	200	0.00	155.97	78	12-110
2-Chlorophenol	200	0.00	157.76	79	27-123
1,4-Dichlorobenzene	200	0.00	133.78	67	36- 97
N-Nitroso-Di-n-Prop.(1)	200	0.00	164.07	82	41-116
1,2,4-Trichlorobenzene	200	0.00	133.15	67	39- 98
4-Chloro-3-Methylphenol	200	0.00	185.52	93	23- 97
Acenaphthene	200	0.00	193.73	97	46-118
4-Nitrophenol	200	0.00	211.25	106*	10- 80
2,4-Dinitrotoluene	200	0.00	205.76	103*	24- 96
Pentachlorophenol	200	0.00	207.07	104*	9-103
Pyrene	200	0.00	199.87	100	26-127

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	200	167.16	84	7	42	12-110
2-Chlorophenol	200	167.62	84	6	40	27-123
1,4-Dichlorobenzene	200	144.72	72	8	28	36- 97
N-Nitroso-Di-n-Prop.(1)	200	174.12	87	6	38	41-116
1,2,4-Trichlorobenzene	200	147.61	74	10	28	39- 98
4-Chloro-3-Methylphenol	200	190.91	95	3	42	23- 97
Acenaphthene	200	197.77	99	2	31	46-118
4-Nitrophenol	200	214.72	107*	2	50	10- 80
2,4-Dinitrotoluene	200	202.81	101*	1	38	24- 96
Pentachlorophenol	200	208.72	104*	1	50	9-103
Pyrene	200	200.05	100	0	31	26-127

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 11 outside limits
Spike Recovery: 6 out of 22 outside limits

Comments: _____

_____

EPA SW846

FORM 5
SPIKE SAMPLE RECOVERY

LAB SAMPLE NUMBER

T02936S

Laboratory: EA LABORATORIES

SDG No.: T02936

Matrix (soil/water): SOIL
% Solids for Sample: 44.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum		5844.5282		5906.9594		416.26	-15.0		P
Antimony	75-125	68.4578		0.4552	B	104.07	65.3	N	P
Arsenic	75-125	7.5635		2.8012		5.11	93.2		F
Barium	75-125	418.1769		36.4104	B	416.26	91.7		P
Beryllium	75-125	9.8279		0.2506	B	10.41	92.0		P
Cadmium	75-125	11.6953		2.7335		10.41	86.1		P
Calcium	75-125	3383.5866		1643.0048		2081.31	83.6		P
Chromium	75-125	54.7364		16.6370		41.63	91.5		P
Cobalt	75-125	102.2090		3.1039	B	104.07	95.2		P
Copper	75-125	64.3541		12.8358		52.03	99.0		P
Iron		10272.9320		10489.6410		208.10	-104.1		P
Lead	75-125	226.4163		135.0444		104.07	87.8		P
Magnesium	75-125	3958.8608		2462.3666		2081.31	71.9	N	P
Manganese	75-125	193.8283		85.7402		104.07	103.9		P
Mercury	75-125	5.3499		0.2456	U	4.42	121.0		CV
Nickel	75-125	110.5113		10.8576		104.07	95.8		P
Potassium	75-125	2824.9628		1158.7148		2081.31	80.1		P
Selenium	75-125	8.7999		0.2158	U	10.22	86.1		F
Silver	75-125	97.0911		0.8919	U	104.07	93.3		P
Sodium	75-125	2192.8688		275.6477		2081.31	92.1		P
Thallium	75-125	5.1643		0.2158	U	5.11	101.1		F
Vanadium	75-125	120.9221		19.5683		104.07	97.4		P
Zinc	75-125	156.8580		61.9282		104.07	91.2		P

Comments:

EPA SW846

FORM 5
SPIKE SAMPLE RECOVERY

LAB SAMPLE NUMBER

T02972S

Laboratory: EA LABORATORIES

SDG No.: T02967

Matrix (soil/water): WATER
% Solids for Sample: 0.0

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

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum	75-125	2398.1000		380.4700	B	2000.00	100.9		P
Antimony	75-125	460.7351		2.0000	U	500.00	92.1		~~F~~ P
Arsenic	75-125	20.6800		2.0000	U	25.00	82.7		F
Barium	75-125	2040.9000		22.0000	U	2000.00	102.0		P
Beryllium	75-125	49.9070		1.0000	U	50.00	99.8		P
Cadmium	75-125	48.9156		1.4811		50.00	94.9		F
Calcium	75-125	24434.0000		13733.0000		10000.00	107.0		P
Chromium	75-125	206.0100		6.0000	U	200.00	103.0		P
Cobalt	75-125	500.5700		11.0000	U	500.00	100.1		P
Copper	75-125	253.8700		6.0000	U	250.00	101.5		P
Iron	75-125	1846.8000		757.6800		1000.00	108.9		P
Lead	75-125	23.0800		1.0000	U	25.00	92.3		F
Magnesium	75-125	14238.0000		3959.4000		10000.00	102.8		P
Manganese	75-125	632.8200		107.4500		500.00	105.1		P
Mercury	75-125	4.6500		0.2100	B	4.00	111.0		CV
Nickel	75-125	502.8400		15.0000	U	500.00	100.6		P
Potassium	75-125	10656.0000		1033.7000	B	10000.00	96.2		P
Selenium	75-125	45.3000		1.0000	U	50.00	90.6		F
Silver	75-125	498.2700		4.0000	U	500.00	99.7		P
Sodium	75-125	15234.0000		5844.5000		10000.00	93.9		P
Thallium	75-125	22.2700		1.0000	U	25.00	89.1		F
Vanadium	75-125	512.1200		8.0000	U	500.00	102.4		P
Zinc	75-125	488.5600		12.0000	U	500.00	97.7		P

PL 4/23/97

Comments:

EPA SW846

FORM 5
SPIKE SAMPLE RECOVERY

LAB SAMPLE NUMBER

T02967S

Laboratory: EA LABORATORIES

SDG No.: T02967

Matrix (soil/water): WATER
% Solids for Sample: 0.0

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

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum	75-125	2263.8000		249.3700	B	2000.00	100.7		P
Antimony	75-125	457.6997		2.0000	U	500.00	91.5		~~P~~ F
Arsenic	75-125	21.2400		2.0300	B	25.00	76.8		F
Barium	75-125	2022.0000		22.0000	U	2000.00	101.1		P
Beryllium	75-125	49.2610		1.0000	U	50.00	98.5		P
Cadmium	75-125	46.3076		1.0000	U	50.00	92.6		F
Calcium	75-125	26008.0000		16253.0000		10000.00	97.6		P
Chromium	75-125	201.3700		6.0000	U	200.00	100.7		P
Cobalt	75-125	509.3200		11.0000	U	500.00	101.9		P
Copper	75-125	250.1100		6.0000	U	250.00	100.0		P
Iron		12087.0000		11174.0000		1000.00	91.3		P
Lead	75-125	25.2900		1.0000	U	25.00	101.2		F
Magnesium	75-125	12338.0000		2359.7000		10000.00	99.8		P
Manganese	75-125	1613.6000		1112.9000		500.00	100.1		P
Mercury	75-125	3.8500		0.2200	B	4.00	90.8		CV
Nickel	75-125	505.4800		15.0000	U	500.00	101.1		P
Potassium	75-125	12117.0000		2562.3000	B	10000.00	95.5		P
Selenium	75-125	44.0400		1.0000	U	50.00	88.1		F
Silver	75-125	491.5200		4.0000	U	500.00	98.3		P
Sodium	75-125	19629.0000		9912.9010		10000.00	97.2		P
Thallium	75-125	21.0700		1.0000	U	25.00	84.3		F
Vanadium	75-125	509.6900		8.0000	U	500.00	101.9		P
Zinc	75-125	488.0400		12.0000	U	500.00	97.6		P

PL 4/23/97

Comments:

EPA SW846

FORM 5
SPIKE SAMPLE RECOVERY

LAB SAMPLE NUMBER

T02929S

Laboratory: EA LABORATORIES

SDG No.: T02773

Matrix (soil/water): WATER
% Solids for Sample: 0.0

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

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum	75-125	2916.5000		996.5400		2000.00	96.0		P
Antimony	75-125	423.2576		2.0000	U	500.00	84.7		P
Arsenic	75-125	23.8300		2.0000	U	25.00	95.3		F
Barium	75-125	1982.6000		42.0590	B	2000.00	97.0		P
Beryllium	75-125	49.1560		1.0000	U	50.00	98.3		P
Cadmium	75-125	47.9039		1.0000	U	50.00	95.8		P
Calcium	75-125	27961.0000		17935.0000		10000.00	100.3		P
Chromium	75-125	202.8800		6.0000	U	200.00	101.4		P
Cobalt	75-125	506.9700		11.0000	U	500.00	101.4		P
Copper	75-125	253.3200		6.0000	U	250.00	101.3		P
Iron		38896.0000		36578.0000		1000.00	231.8		[illegible]
Lead	75-125	38.1800		14.9400		25.00	93.0		F
Magnesium	75-125	12245.0000		2356.0000		10000.00	98.9		P
Manganese	75-125	747.9900		235.2500		500.00	102.5		P
Mercury	75-125	4.8500		0.2000	U	4.00	121.2		CV
Nickel	75-125	499.2200		15.0000	U	500.00	99.8		P
Potassium	75-125	12150.0000		2247.2000		10000.00	99.0		P
Selenium	75-125	42.4800		1.0000	U	50.00	85.0		F
Silver	75-125	486.6800		4.0000	U	500.00	97.3		P
Sodium	75-125	32424.0000		22155.0000		10000.00	102.7		P
Thallium	75-125	20.6500		1.0000	U	25.00	82.6		F
Vanadium	75-125	515.2701		8.0000	U	500.00	103.1		P
Zinc	75-125	507.8700		31.6780		500.00	95.2		P

Comments:

EPA SW846

FORM 5
SPIKE SAMPLE RECOVERY

LAB SAMPLE NUMBER

T02781S

Laboratory: EA LABORATORIES

SDG No.: T02773

Matrix (soil/water): WATER
% Solids for Sample: 0.0

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

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum	75-125	1965.4000		27.2660	B	2000.00	96.9		P
Antimony	75-125	413.3569		2.0000	U	500.00	82.7		P
Arsenic	75-125	23.4600		2.0000	U	25.00	93.8		F
Barium	75-125	1898.8000		22.0000	U	2000.00	94.9		P
Beryllium	75-125	47.4210		1.0000	U	50.00	94.8		P
Cadmium	75-125	45.3039		1.0000	U	50.00	90.6		P
Calcium	75-125	18819.0000		9417.3000		10000.00	94.0		P
Chromium	75-125	196.0200		6.0000	U	200.00	98.0		P
Cobalt	75-125	487.9100		11.0000	U	500.00	97.6		P
Copper	75-125	243.5200		6.0000	U	250.00	97.4		P
Iron	75-125	1018.0000		40.0000	U	1000.00	101.8		P
Lead	75-125	23.1400		1.0000	U	25.00	92.6		F
Magnesium	75-125	13144.0000		3633.1000		10000.00	95.1		P
Manganese	75-125	545.1800		51.2980		500.00	98.8		P
Mercury	75-125	4.8200		0.2000	U	4.00	120.5		CV
Nickel	75-125	482.1800		15.0000	U	500.00	96.4		P
Potassium	75-125	10878.0000		1463.5000		10000.00	94.1		P
Selenium	75-125	46.8200		1.0000	U	50.00	93.6		F
Silver	75-125	351.4500		4.0000	U	500.00	70.3	N	P
Sodium	75-125	20721.0000		11346.0000		10000.00	93.8		P
Thallium	75-125	25.2000		1.0000	U	25.00	100.8		F
Vanadium	75-125	495.1100		8.0000	U	500.00	99.0		P
Zinc	75-125	474.8200		12.0000	U	500.00	95.0		P

Comments:

Engineering Inspection of Site 9				
Well Number	Locked	Labelled	Depth to Water	Comments
MW-69	Yes	Yes		
MW-70	Yes	Yes		
MW-71	Yes	Yes		
MW-72	Yes	Yes		
MW-73	NO	Yes		See Notes Below
MW-74	Yes	Yes		
MW-75	Yes	Yes		
MW-76	Yes	Yes		
MW-77	Yes	Yes		
MW-78	Yes	Yes		Bentonite seal has been disturbed during construction the surface was regraded to a elevation below the original ground surface.
MW-79	Yes	Yes		
MW-80	Yes	Yes		
MW-81	Yes	Yes		

Date: 3-19-97 Weather: Sunny, 31°F, 30.5" Hg

EA Personnel: Chip McLeod, Mike Gilase

Additional Comments:

1) Stressed Vegetation: None observed - snow pack

2) Other: Depth to water performed During LTMP.

→ New construction complete. Theater demolished.

Some demo materials present.

MW-905 damaged during demo of theater cap, tab, and lock. Metal casing damaged → Found in snow.

Casing needs to be fixed