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**GROUNDWATER MONITORING
VALIDATED ANALYTICAL RESULTS FOR THE THIRD QUARTER 1998
ASH LANDFILL, SENECA ARMY DEPOT**

PREPARED FOR:

U.S. Army Corps of Engineers
Huntsville, Alabama

PREPARED BY:

Parsons Engineering Science, Inc.
Canton, Massachusetts

December 1998



December 16, 1998
730769-01007

Mr. Stephen Absolom
FFA Program Manager
BRAC Environmental Coordinator
ATTN: SIOSE-BEC
Building 123
Seneca Army Depot Activity
Romulus, New York 14541-5001

**SUBJECT: Ash Landfill Third Quarter 1998 Groundwater Monitoring
Seneca Army Depot Activity, Romulus, New York**

Dear Mr. Absolom:

The enclosed report summarizes the results of the 1998 Third Quarter Groundwater Monitoring at the Ash Landfill. The work for this quarter was performed in accordance with the requirements of Delivery Order 0006 of Contract DACA87-95-D-0031, Optional Task No.3.

Field Activities

Water level measurements were completed on 45 monitoring wells at the Ash Landfill. VOC groundwater samples were collected from 19 monitoring wells including the 3 farmhouse wells. Monitoring wells MW-29, MW-30 and MW-47 were not sampled because of insufficient recovery. TAL Metals groundwater samples were collected from 3 monitoring wells. All wells were sampled using the EPA Region II Low-Flow Groundwater Sampling Procedures. Two field blanks, two duplicates, and three trip blanks were submitted for VOC QA/QC requirements. One duplicate and one rinsate was submitted for Metals QA/QC requirements.

Groundwater Elevation Data

Mean Sea Level (MSL) groundwater elevations were measured on September 19, 1998 and used to develop a groundwater isocontour map for the Ash Landfill as shown in **Figure 1**. The groundwater elevation measurements are summarized in **Table 1**. Based upon the measured groundwater elevations, the groundwater flow direction is generally to the west with a hydraulic gradient of approximately 0.02.

Groundwater Analytical Results

Groundwater samples were collected September 19-22, 1998 and shipped via chain-of-custody to Severn Trent Laboratories and Evergreen Analytical. Thirteen monitoring wells were analyzed for Method 524.4 volatile organics and six monitoring wells were analyzed for TCL volatile organics. Three wells were analyzed for Cadmium, Chromium, Lead, Manganese, and Nickel and 16 wells were analyzed for the

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indicator compounds methane/ethane/ethene, chlorides, sulfates, ferrous iron (fe+2), dissolved organic carbon (DOC), specific conductivity, nitrate/nitrite, redox potential, dissolved oxygen, and total alkalinity. Additional QA/QC samples were sent to the MRD Laboratory for VOC analysis by Method 8260A, TAL Metals and M/E/E. **Appendix A** contains all field data sheets. The analytical data was validated in accordance with NYSDEC Data Validation SOPs. All data was accepted based upon the validation results.

The farmhouse wells continue to show non-detectable levels of VOCs. VOC concentrations in MW-56 showed no change from the previous quarter (cis-1,2-dichloroethene at 1.3 ug/l). MW-56 is the furthest downgradient off-site well with detectable concentrations of VOCs.

Wells showing an increase in VOC concentrations from the previous quarter of sampling (June 1998) are PT-12, PT18, and MW-46. Wells showing a decrease in VOC concentrations from the previous quarter of sampling are PT-21A, PT-24, and MW-44. Wells that continue to exhibit non-detectable concentrations of VOCs are PT-11, PT-19, MW-30, MW-36, MW-40, MW-45, MW-48, MW-59 and MW-60.

Appendix B summarizes the historical data and provides concentration vs. time plots for wells situated in the VOC plume. In general, plots of VOC concentration vs. time for several wells indicate a decreasing trend in concentrations for wells located in the former source area (PT-18 and MW-44) and increasing trends in concentrations for wells downgradient of the source area (PT-24 and MW-29). This may, in large part, be explained by the source removal conducted at the Ash Landfill in 1995. The removal and treatment of soils from the source area would, in effect, cause a temporary increase in VOCs in the source area groundwater due to the mechanical flushing of soils in the shallow aquifer. This is shown by the spike in VOC concentrations measured in PT-18 in June 1995. Since the removal action, gradual decreases in VOC groundwater concentrations in the former source area would be expected due to the naturally occurring processes of advection and dispersion, as well as potential degradation processes such as biodegradation from endogenous anaerobic bacteria. PT-18 and MW-44 have shown decreasing trends in VOC concentrations from previous sampling rounds. Both of these wells are located directly in the former source area. Once the source area has been removed, the groundwater transport mechanism of VOCs would shift from a continuous source contaminant plume to a plume that migrates in a manner closer to slug transport. As a result, the concentrations of VOCs would be expected to gradually increase in downgradient wells from the source area. This has been demonstrated by the gradual increase in VOC concentrations in PT-24 and MW-29.

Cadmium, chromium, nickel and lead were not detected in monitoring wells PT-18, MW-44A, and MW-45. Manganese was detected in all three monitoring wells. The NYSDEC Class GA Ambient Groundwater Quality Standard (AWQS) for manganese (300 ug/l) was exceeded in two monitoring wells (MW-44A and PT-18).

Tables 2 through **4** summarize the analytical results. **Appendix C** contains the laboratory analytical data and QA/QC summaries.

Various indicator parameters were measured to assess the potential for natural attenuation processes such as biodegradation. The biological degradation of chlorinated compounds in groundwater has been shown to

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occur principally by anaerobic degradation pathways. Parameters such as dissolved oxygen, methane, ferrous iron, and sulfate may be used to estimate the biodegradation potential of the aquifer and to assess if biodegradation of VOCs is occurring.

Table 5 summarizes the indicator parameters measured in 16 wells. Anaerobic bacteria generally cannot function at dissolved oxygen levels greater than 0.5 mg/l. None of the wells tested, showed concentrations of dissolved oxygen equal to, or less than 0.5 mg/l. The dissolved oxygen concentrations ranged from 0.82 to 3.55. Redox potential is another parameter used to measure the potential for anaerobic degradation. Anaerobic biodegradation is more favorable when the redox potential is less than 750 mV. All wells had redox potentials less than 750 mV. They ranged from 50 mV in PT-18 to 322 mV in MW-36. Other less energetically favorable electron acceptors for anaerobic degradation are nitrate, sulfate, and carbon dioxide. A comparison of these analytes in wells located in the areas of groundwater contamination to upgradient background concentrations, may help to determine the extent of biodegradation in the contaminant plume. Nitrate does not appear to be a significant electron acceptor based on the concentrations measured in the groundwater. Sulfate concentrations indicate that it may be a significant electron acceptor. Methane is a by-product of the reduction of carbon dioxide. The presence of methane above background is indicative of microbial degradation. Concentrations of methane above background were observed in many of the wells in the VOC plume (MW-44A, PT-18, PT-12, MW-46). Ferrous iron (Fe+2) concentrations were slightly higher in some of the wells located in the VOC plume (PT-19, MW-44A) when compared to background concentrations (MW-40). Ferric iron is reduced to ferrous iron during anaerobic degradation of organics. Concentrations above background may indicate that biodegradation is occurring in the aquifer.

If you have any questions regarding the enclosed, please call me at (617) 859-2492.

Sincerely,

PARSONS ENGINEERING SCIENCE, INC.



Michael Duchesneau, P.E.
Project Manager

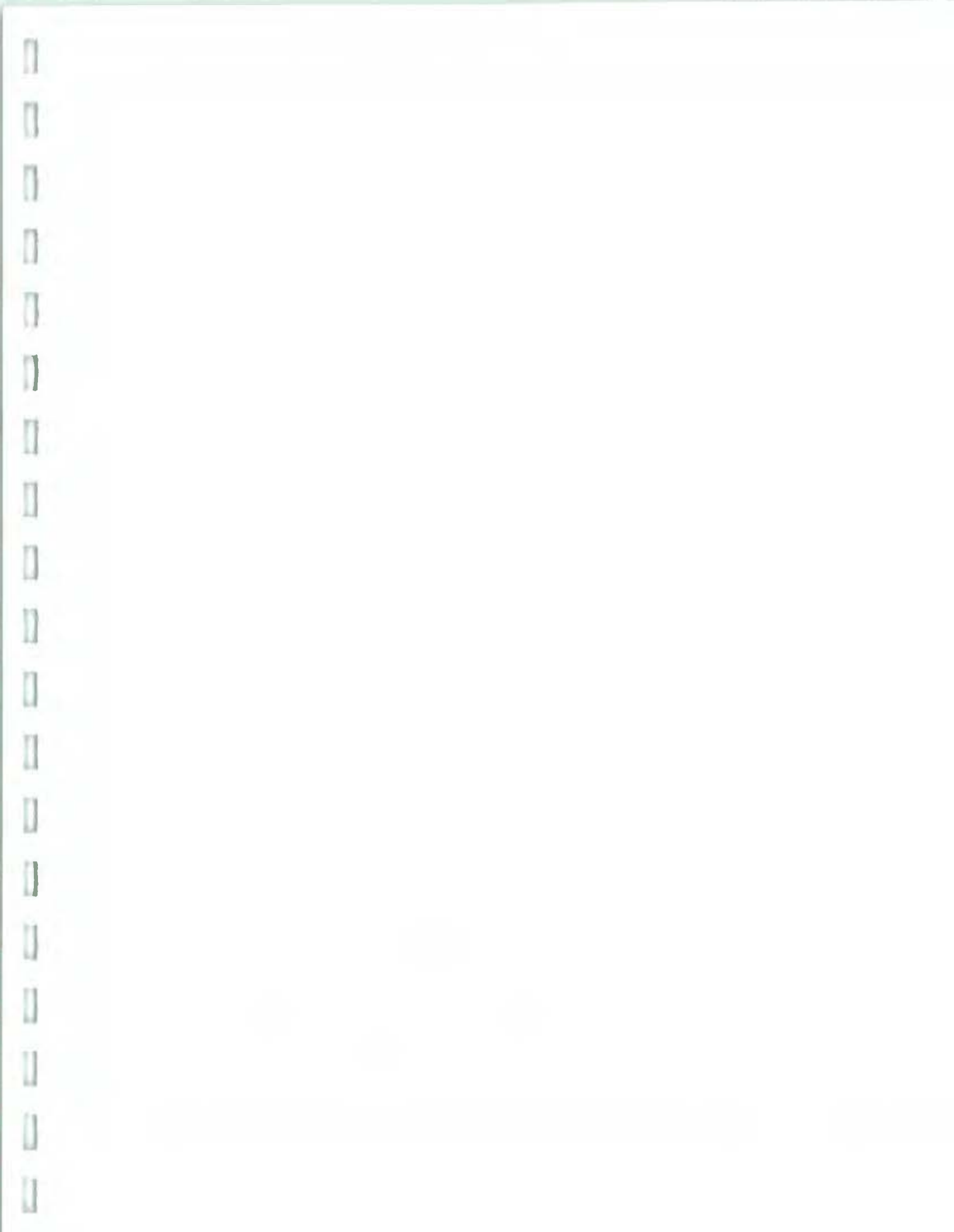
Enclosures (3)

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TABLES

Table 1	Groundwater Elevation Data
Table 2	Validated Volatile Organic Analysis Results (524.4)
Table 3	Validated TCL Volatile Organic Analysis Results
Table 4	Validated Metals Analytical Results
Table 5	Indicator Parameters



**Table 1
SENECA ARMY DEPOT ACTIVITY
GROUNDWATER MONITORING PROGRAM
GROUNDWATER ELEVATION DATA
THIRD QUARTER 1998
ASH LANDFILL**

Monitoring Well	Elevation at Top of Riser (MSL)	First Quarter 1998			Second Quarter 1998			Third Quarter 1998			Well Condition
		Date	Depth from Top of Riser (ft.)	Elevation of Water Level (ft.)	Date	Depth from Top of Riser (ft.)	Elevation of Water Level (ft.)	Date	Depth from Top of Riser (ft.)	Elevation of Water Level (ft.)	
PT-10	681.52	03/23/98	4.62	678.9	06/16/98	6.3	675.22	09/18/98	10.29	671.23	A
PT-11	658.22	03/23/98	4.24	653.98	06/16/98	4.43	653.79	09/18/98	9.57	648.65	D
PT-12A	652.15	03/23/98	3.14	649.01	06/16/98	5.25	646.9	09/18/98	9.29	642.86	C (0.3')
PT-15	637.76	03/23/98	4.02	633.74	06/16/98	7.14	630.62	09/18/98	9.82	627.94	D
PT-16	637.51	03/23/98	2.8	634.71	06/16/98	3.8	633.71	09/18/98	6.52	630.99	A
PT-17	640.14	03/23/98	4.29	635.85	06/16/98	4.97	635.17	09/18/98	9.96	630.18	ok
PT-18	656.68	03/23/98	4.4	652.28	06/16/98	6.34	650.34	09/18/98	9.06	647.62	F
PT-19	645.26	03/23/98	2.17	643.09	06/16/98	4.9	640.36	09/18/98	7.83	637.43	Riser seperated below G.S.
PT-20	647.28	03/23/98	4.94	642.34	06/16/98	5.69	641.59	09/18/98	9.87	637.41	D
PT-21A	647.73	03/23/98	3.89	643.84	06/16/98	6.46	641.27	09/18/98	9.79	637.94	C (0.3')
PT-22	648.61	03/23/98	4.31	644.3	06/16/98	6.96	641.65	09/18/98	10.35	638.26	D
PT-23	641.58	03/23/98	3.66	637.92	06/16/98	4.02	637.56	09/18/98	8.47	633.11	A
PT-24	636.40	03/23/98	3.64	632.76	06/16/98	4.69	631.71	09/18/98	7.1	629.3	D, G
PT-25	637.09	03/23/98	3.58	633.51	06/16/98	4.48	632.81	09/18/98	11.35	625.74	D
PT-26	614.84	03/23/98	3.04	611.8	06/16/98	Not Measured	N/A	09/18/98	10.54	604.1	Unknown
MW-27	639.32	03/23/98	4.44	634.88	06/16/98	5.36	633.96	09/18/98	7.67	631.65	D
MW-28	637.21	03/23/98	4.64	632.57	06/16/98	5.14	632.07	09/18/98	7.46	629.75	D
MW-29	637.31	03/23/98	6.1	631.21	06/16/98	6.39	630.92	09/18/98	9.9	627.41	D
MW-30	640.32	03/23/98	3.94	636.38	06/16/98	5.32	635	09/18/98	10.44	629.88	D, F
MW-31	636.70	03/23/98	2.48	634.22	06/16/98	3.62	633.08	09/18/98	9.68	627.02	D
MW-32	641.68	03/23/98	3.84	637.84	06/16/98	6.23	635.45	09/18/98	8.98	632.7	D
MW-33	639.56	03/23/98	3.91	635.65	06/16/98	6.17	633.39	09/18/98	9.84	629.72	D, E
MW-34	632.89	03/23/98	2.74	630.15	06/16/98	3.73	629.16	09/18/98	10.53	622.36	C (0.2'), F
MW-35D	631.82	03/23/98	2.6	629.22	06/16/98	2.4	629.22	09/18/98	7.2	624.62	A, F
MW-36	631.79	03/23/98	2.60	629.19	06/16/98	2.57	629.22	09/18/98	7.81	623.98	F
MW-37	632.89	03/23/98	2.51	630.38	06/16/98	2.75	630.38	Not Measured			ok
MW-38D	637.90	03/23/98	3.48	635.39	06/16/98	3.65	635.39	09/18/98	7.29	630.61	C (0.2')
MW-39	659.54	03/23/98	1.7	657.84	06/16/98	1.82	657.72	09/18/98	6.47	653.07	B
MW-40	659.30	03/23/98	3.45	655.85	06/16/98	4.14	655.16	09/18/98	8.22	651.08	C (0.4')
MW-41D	694.02	03/23/98	8.12	685.9	06/16/98	Not Measured	N/A	Not Measured			Unknown
MW-42D	683.04	03/23/98	2.37	680.67	06/16/98	3.34	679.7	Not Measured			ok
MW-43	657.73	03/23/98	2.6	655.13	06/16/98	2.81	654.92	09/18/98	6.5	651.23	A
MW-44A	653.85	03/23/98	3.48	650.37	06/16/98	6.73	647.12	09/18/98	10.42	643.43	C (0.5')
MW-45	650.90	03/23/98	2.85	648.05	06/16/98	2.83	648.07	09/18/98	6.93	643.97	C (0.25')
MW-46	650.41	03/23/98	2.88	647.53	06/16/98	4.12	646.29	09/18/98	8.49	641.92	ok
MW-47	628.06	03/23/98	2.3	625.76	06/16/98	3.06	625	09/18/98	8.18	619.88	B
MW-48	648.32	03/23/98	2.86	645.46	06/16/98	3.29	645.03	09/18/98	7.42	640.9	C (0.25')
MW-49D	650.50	03/23/98	2.88	647.62	06/16/98	4.07	646.43	09/18/98	7.32	643.18	A
MW-50D	649.88	03/23/98	2.48	647.4	06/16/98	3.99	645.89	09/18/98	7.27	642.61	ok
MW-51D	628.24	03/23/98	2.35	625.89	06/16/98	3.14	625.1	Not Measured			B
MW-52D	626.35	03/23/98	2.3	624.05	06/16/98	2.73	623.62	09/18/98	7.68	618.67	A
MW-53	639.41	03/23/98	5.78	633.63	06/16/98	7.01	632.4	09/18/98	9.95	629.46	ok
MW-54D	639.11	03/23/98	5.92	633.19	06/16/98	6.94	632.17	09/18/98	10.4	628.71	ok
MW-55D	639.16	03/23/98	5.86	633.3	06/16/98	6.84	632.32	09/18/98	10.06	629.1	B
MW-56	630.51	03/23/98	3.13	627.38	06/16/98	3.17	627.34	09/18/98	8.85	621.66	C (0.8'), E & F
MW-57D	629.82	03/23/98	1.69	628.13	06/16/98	1.95	627.87	09/18/98	8.06	621.76	C (0.2')
MW-58D	629.69	03/23/98	1.32	628.37	06/16/98	1.66	628.03	09/18/98	4.9	624.79	ok
MW-59	656.83	03/23/98	2.13	654.7	06/16/98	2	654.83	09/18/98	5.83	651	ok
MW-60	660.15	03/23/98	1.95	658.2	06/16/98	2.14	658.01	09/18/98	6.9	653.25	ok

- A - No pad or pad destroyed by frost
- B - Pad damaged by frost
- C - Pad & protective casing heaved by frost (ft. above G.S.)
- D - Protective casing corroded - cannot read stamp
- E - PVC riser heaved by frost - cannot lock protective casing
- F - Lock badly corroded
- G - No lock

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Table 2

**Ash Landfill 1998 Third Quarter Groundwater Monitoring
Validated Volatile Organic Analyses Results (Method 524.2)**

SAMPLE ID	AL216	AL215	AL214	AL205	AL818	AL218
WELL ID	BNS	FHD	FHS	MW27	MW36(DU)	MW36
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER
SAMPLE DATE	09/22/98	09/22/98	09/22/98	09/20/98	09/22/98	09/22/98
SDG NO.	70740	70740	70740	70740	70740	70740
COMPOUND	UNITS					
Dichlorodifluoromethane	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloromethane	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl Chloride	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromomethane	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroethane	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichlorofluoromethane	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Acetone	ug/L	5 U	5 U	5 U	5 U	5 U
Carbon Disulfide	ug/L	0.5 U	1 U	1 U	0.5 U	0.5 U
Methylene Chloride	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
trans-1,2-Dichloroethene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Methyl-t-Butyl-Ether	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethane	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2,2-Dichloropropane	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
cis-1,2-Dichloroethene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Butanone	ug/L	5 U	5 U	5 U	5 U	5 U
Bromochloromethane	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroform	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,1-Trichloroethane	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Carbon Tetrachloride	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloropropene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Benzene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloroethane	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichloroethene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloropropane	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dibromomethane	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromodichloromethane	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
cis-1,3-Dichloropropene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
4-Methyl-2-Pentanone	ug/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Toluene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
trans-1,3-Dichloropropene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Tetrachloroethene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,3 - Dichloropropene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Hexanone	ug/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Dibromochloromethane	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dibromoethane	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chlorobenzene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,1,2-Tetrachloroethane	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Ethylbenzene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
m & p-xylene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
o-xylene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Styrene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromoform	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Xylene (total)	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Isopropylbenzene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromobenzene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U



Table 2

Ash Landfill 1998 Third Quarter Groundwater Monitoring
Validated Volatile Organic Analyses Results (Method 524.2)

SAMPLE ID	AL216	AL215	AL214	AL205	AL818	AL218
WELL ID	BNS	FHD	FHS	MW27	MW36(DU)	MW36
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER
SAMPLE DATE	09/22/98	09/22/98	09/22/98	09/20/98	09/22/98	09/22/98
SDG NO.	70740	70740	70740	70740	70740	70740
1,1,2,2-Tetrachloroethane	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2,3-Trichloropropane	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Chlorotoluene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
4-Chlorotoluene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
n-Propylbenzene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,3,5-Trimethylbenzene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
tert-Butylbenzene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2,4-Trimethylbenzene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
sec-Butylbenzene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,3-Dichlorobenzene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
p-Isopropyltoluene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,4-Dichlorobenzene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichlorobenzene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
n-Butylbenzene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dibromo-3-Chloropropane	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2,4-Trichlorobenzene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Hexachlorobutadiene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Naphthalene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2,3-Trichlorobenzene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U



Table 2

**Ash Landfill 1998 Third Quarter Groundwater Monitoring
Validated Volatile Organic Analyses Results (Method 524.2)**

SAMPLE ID	AL817	AL209	AL204	AL203	AL217	AL200
WELL ID	MW36(R)	MW40	MW45	MW48	MW56	MW59
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER
SAMPLE DATE	09/22/98	09/20/98	09/19/98	09/19/98	09/22/98	09/19/98
SDG NO.	70740	70740	70740	70740	70740	70740
COMPOUND	UNITS					
Dichlorodifluoromethane	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloromethane	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl Chloride	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromomethane	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroethane	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichlorofluoromethane	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Acetone	ug/L	5 U	5 U	5 U	5 U	5 U
Carbon Disulfide	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Methylene Chloride	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
trans-1,2-Dichloroethene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Methyl-t-Butyl-Ether	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethane	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2,2-Dichloropropane	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
cis-1,2-Dichloroethene	ug/L	0.5 U	0.5 U	0.5 U	1.3	0.5 U
2-Butanone	ug/L	5 U	5 U	5 U	5 U	5 U
Bromochloromethane	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroform	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,1-Trichloroethane	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Carbon Tetrachloride	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloropropene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Benzene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloroethane	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichloroethene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloropropane	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dibromomethane	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromodichloromethane	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
cis-1,3-Dichloropropene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
4-Methyl-2-Pentanone	ug/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Toluene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
trans-1,3-Dichloropropene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Tetrachloroethene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,3 - Dichloropropene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Hexanone	ug/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Dibromochloromethane	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dibromoethane	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chlorobenzene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,1,2-Tetrachloroethane	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Ethylbenzene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
m & p-xylene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
o-xylene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Styrene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromoform	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Xylene (total)	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Isopropylbenzene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromobenzene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U



Table 2

Ash Landfill 1998 Third Quarter Groundwater Monitoring
Validated Volatile Organic Analyses Results (Method 524.2)

SAMPLE ID	AL817	AL209	AL204	AL203	AL217	AL200
WELL ID	MW36(R)	MW40	MW45	MW48	MW56	MW59
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER
SAMPLE DATE	09/22/98	09/20/98	09/19/98	09/19/98	09/22/98	09/19/98
SDG NO.	70740	70740	70740	70740	70740	70740
1,1,2,2-Tetrachloroethane	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2,3-Trichloropropane	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Chlorotoluene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
4-Chlorotoluene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
n-Propylbenzene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,3,5-Trimethylbenzene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
tert-Butylbenzene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2,4-Trimethylbenzene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
sec-Butylbenzene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,3-Dichlorobenzene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
p-Isopropyltoluene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,4-Dichlorobenzene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichlorobenzene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
n-Butylbenzene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dibromo-3-Chloropropane	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2,4-Trichlorobenzene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Hexachlorobutadiene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Naphthalene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2,3-Trichlorobenzene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U



Table 2

**Ash Landfill 1998 Third Quarter Groundwater Monitoring
Validated Volatile Organic Analyses Results (Method 524.2)**

SAMPLE ID	AL201	AL206	AL202	AL810	AL816
WELL ID	MW60	PT11	PT19	TB	TB
MATRIX	WATER	WATER	WATER	WATER	WATER
SAMPLE DATE	09/19/98	09/20/98	09/19/98	9/19/98	9/14/98
SDG NO.	70740	70740	70740	70740	70740
COMPOUND	UNITS				
Dichlorodifluoromethane	ug/L	0.5 U	0.5 U	0.5 U	0.5 U
Chloromethane	ug/L	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl Chloride	ug/L	0.5 U	0.5 U	0.5 U	0.5 U
Bromomethane	ug/L	0.5 U	0.5 U	0.5 U	0.5 U
Chloroethane	ug/L	0.5 U	0.5 U	0.5 U	0.5 U
Trichlorofluoromethane	ug/L	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U
Acetone	ug/L	5 U	5 U	5 U	5 U
Carbon Disulfide	ug/L	0.5 U	0.5 U	0.5 U	0.5 U
Methylene Chloride	ug/L	0.5 U	0.5 U	0.5 U	0.5 U
trans-1,2-Dichloroethene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U
Methyl-t-Butyl-Ether	ug/L	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethane	ug/L	0.5 U	0.5 U	0.5 U	0.5 U
2,2-Dichloropropane	ug/L	0.5 U	0.5 U	0.5 U	0.5 U
cis-1,2-Dichloroethene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U
2-Butanone	ug/L	5 U	5 U	5 U	5 U
Bromochloromethane	ug/L	0.5 U	0.5 U	0.5 U	0.5 U
Chloroform	ug/L	0.5 U	0.5 U	0.5 U	0.5 U
1,1,1-Trichloroethane	ug/L	0.5 U	0.5 U	0.5 U	0.5 U
Carbon Tetrachloride	ug/L	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloropropene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U
Benzene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloroethane	ug/L	0.5 U	0.5 U	0.5 U	0.5 U
Trichloroethene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloropropane	ug/L	0.5 U	0.5 U	0.5 U	0.5 U
Dibromomethane	ug/L	0.5 U	0.5 U	0.5 U	0.5 U
Bromodichloromethane	ug/L	0.5 U	0.5 U	0.5 U	0.5 U
cis-1,3-Dichloropropene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U
4-Methyl-2-Pentanone	ug/L	2.5 U	2.5 U	2.5 U	2.5 U
Toluene	ug/L	0.5 U	0.5 U	0.5 U	0.27 J
trans-1,3-Dichloropropene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	ug/L	0.5 U	0.5 U	0.5 U	0.5 U
Tetrachloroethene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U
1,3 - Dichloropropene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U
2-Hexanone	ug/L	2.5 U	2.5 U	2.5 U	2.5 U
Dibromochloromethane	ug/L	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dibromoethane	ug/L	0.5 U	0.5 U	0.5 U	0.5 U
Chlorobenzene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U
1,1,1,2-Tetrachloroethane	ug/L	0.5 U	0.5 U	0.5 U	0.5 U
Ethylbenzene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U
m & p-xylene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U
o-xylene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U
Styrene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U
Bromoform	ug/L	0.5 U	0.5 U	0.5 U	0.5 U
Xylene (total)	ug/L	0.5 U	0.5 U	0.5 U	0.5 U
Isopropylbenzene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U
Bromobenzene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U



Table 2

Ash Landfill 1998 Third Quarter Groundwater Monitoring
Validated Volatile Organic Analyses Results (Method 524.2)

SAMPLE ID	AL201	AL206	AL202	AL810	AL816	
WELL ID	MW60	PT11	PT19	TB	TB	
MATRIX	WATER	WATER	WATER	WATER	WATER	
SAMPLE DATE	09/19/98	09/20/98	09/19/98	9/19/98	9/14/98	
SDG NO.	70740	70740	70740	70740	70740	
1,1,2,2-Tetrachloroethane	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2,3-Trichloropropane	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Chlorotoluene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
4-Chlorotoluene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
n-Propylbenzene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,3,5-Trimethylbenzene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
tert-Butylbenzene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2,4-Trimethylbenzene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
sec-Butylbenzene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,3-Dichlorobenzene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
p-Isopropyltoluene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,4-Dichlorobenzene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichlorobenzene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
n-Butylbenzene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dibromo-3-Chloropropane	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2,4-Trichlorobenzene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Hexachlorobutadiene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Naphthalene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2,3-Trichlorobenzene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U



Table 3
Ash Landfill
1998 Third Quarter Groundwater Monitoring
Validated TCL Volatile Organic Analysis Results

	WELL ID	PT-12A	MW-44A	MW-46	PT-18	PT-21A	PT-24
	SAMPLE ID	AL207	AL 210	AL208	AL212	AL211	AL213
	MATRIX	WATER	WATER	WATER	WATER	WATER	WATER
	SAMPLE DATE	9/20/98	9/20/98	9/20/98	9/21/98	9/20/98	9/21/98
	SDG NUMBER	70741	70741	70741	70741	70741	70741
COMPOUND	UNITS						
Chloromethane	ug/L	8.8 U	4.9 U	1 U	220 U	1 U	8 U
Bromomethane	ug/L	8.8 U	4.9 U	1 U	220 U	1 U	8 U
Vinyl Chloride	ug/L	47	480	1 U	220 U	1 U	8 U
Chloroethane	ug/L	8.8 U	4.9 U	1 U	220 U	1 U	8 U
Methylene Chloride	ug/L	18 U	9.8 U	2 U	440 U	2 U	16 U
Acetone	ug/L	44 U	24 U	5 U	1100 U	5 U	40 U
Carbon Disulfide	ug/L	8.8 U	4.9 U	1 U	220 U	1 U	8 U
1,1-Dichloroethene	ug/L	8.8 U	4.9 U	0.21 J	220 U	1 U	8 U
1,1-Dichloroethane	ug/L	8.8 U	12	1 U	220 U	1 U	8 U
1,2-Dichloroethene (total)	ug/L	2318	1100	102	450 J	2.8	96
Chloroform	ug/L	8.8 U	4.9 U	1 U	220 U	1 U	8 U
1,2-Dichloroethane	ug/L	8.8 U	4.9 U	1 U	220 U	1 U	8 U
2-Butanone	ug/L	44 U	24 U	5 U	1100 U	5 U	40 U
Bromochloromethane	ug/L	8.8 U	4.9 U	1 U	220 U	1 U	8 U
1,1,1-Trichloroethane	ug/L	8.8 U	4.9 U	1 U	220 U	1 U	8 U
Carbon Tetrachloride	ug/L	8.8 U	4.9 U	1 U	220 U	1 U	8 U
Bromodichloromethane	ug/L	8.8 U	4.9 U	1 U	220 U	1 U	8 U
1,2-Dichloropropane	ug/L	8.8 U	4.9 U	1 U	220 U	1 U	8 U
cis-1,3-Dichloropropene	ug/L	8.8 U	4.9 U	1 U	220 U	1 U	8 U
Trichloroethene	ug/L	1300	22	19	3800	0.67 J	5 J
Dibromochloromethane	ug/L	8.8 U	4.9 U	1 U	220 U	1 U	8 U
1,1,2-Trichloroethane	ug/L	8.8 U	4.9 U	1 U	220 U	1 U	8 U
Benzene	ug/L	8.8 U	4.9 U	1 U	220 U	0.27 J	8 U
trans-1,3-Dichloropropene	ug/L	8.8 U	4.9 U	1 U	220 U	1 U	8 U
Bromoform	ug/L	8.8 U	4.9 U	1 U	220 U	1 U	8 U
4-Methyl-2-Pentanone	ug/L	44 U	24 U	5 U	1100 U	5 U	40 U
2-Hexanone	ug/L	44 U	24 U	5 U	1100 U	5 U	40 U
Tetrachloroethene	ug/L	8.8 U	4.9 U	1 U	220 U	1 U	8 U
1,1,2,2-Tetrachloroethane	ug/L	8.8 U	4.9 U	1 U	220 U	1 U	8 U
1,2-Dibromomethane	ug/L	8.8 U	4.9 U	1 U	220 U	1 U	8 U
Toluene	ug/L	8.8 U	4.9 U	1 U	220 U	1 U	8 U
Chlorobenzene	ug/L	8.8 U	4.9 U	1 U	220 U	1 U	8 U
Ethylbenzene	ug/L	8.8 U	4.9 U	1 U	220 U	1 U	8 U
Styrene	ug/L	8.8 U	4.9 U	1 U	220 U	1 U	8 U
Xylene (total)	ug/L	8.8 U	4.9 U	1 U	220 U	1 U	8 U
1,3-Dichlorobenzene	ug/L	8.8 U	4.9 U	1 U	220 U	1 U	8 U
1,4-Dichlorobenzene	ug/L	8.8 U	4.9 U	1 U	220 U	1 U	8 U
1,2-Dichlorobenzene	ug/L	8.8 U	4.9 U	1 U	220 U	1 U	8 U
1,2-Dibromo-3-chloropropane	ug/L	8.8 U	4.9 U	1 U	220 U	1 U	8 U

U - Compound not detected at instrument detection limit
J - Concentration estimated



**Table 4
Ash Landfill
1998 Third Quarter Groundwater Monitoring
Validated Metals Analytical Results**

WELL ID		PT-18	PT-18	PT-18	MW-44	MW-45
ES ID		AL 212	AL 813	AL 815	AL210	AL204
MATRIX		WATER	WATER	WATER	WATER	WATER
SAMPLE DATE		09/21/98	09/21/98	09/21/98	09/20/98	09/20/98
SDG NO.		70741	70741	70741	70741	70740
			Duplicate	Rinsate		
COMPOUND	UNITS					
Aluminium	ug/l	NA	NA	NA	NA	NA
Antimony	ug/l	NA	NA	NA	NA	NA
Arsenic	ug/l	NA	NA	NA	NA	NA
Barium	ug/l	NA	NA	NA	NA	NA
Beryllium	ug/l	NA	NA	NA	NA	NA
Cadmium	ug/l	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
Calcium	ug/l	NA	NA	NA	NA	NA
Chromium	ug/l	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U
Cobalt	ug/l	NA	NA	NA	NA	NA
Copper	ug/l	NA	NA	NA	NA	NA
Iron	ug/l	NA	NA	NA	NA	NA
Lead	ug/l	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U
Magnesium	ug/l	NA	NA	NA	NA	NA
Manganese	ug/l	320	333	1.9 U	2120	92.8
Mercury	ug/l	NA	NA	NA	NA	NA
Nickel	ug/l	3.6 U	3.6 U	4	3.6 U	3.6 U
Potassium	ug/l	NA	NA	NA	NA	NA
Selenium	ug/l	NA	NA	NA	NA	NA
Silver	ug/l	NA	NA	NA	NA	NA
Sodium	ug/l	NA	NA	NA	NA	NA
Thallium	ug/l	NA	NA	NA	NA	NA
Vanadium	ug/l	NA	NA	NA	NA	NA
Zinc	ug/l	NA	NA	NA	NA	NA
Cyanide	ug/l	NA	NA	NA	NA	NA

U - Not Detected at Instrument Detection Limit
NA - Not Analyzed



Table 5
Ash Landfill
1998 Third Quarter Groundwater Monitoring
Indicator Parameters

Well ID	pH (units)	Spec. Cond. (umhos/cm)	Redox Pot.* (mV)	DO (mg/l)	Fe+2 (mg/l)	Methane (mg/l)	Ethane (mg/l)	Ethene (mg/l)	DOC (mg/l)	Nitrate/Nitrite (mg/l)	Tot. Alkalinity (mg/l CaCO3)	Sulfate (mg/l)	Chloride (mg/l)
PT-11	6.95	975	308	3.55	0.15	0.0021	<0.0021	<0.0025	6.9	0.71	356	121	32.2
PT-12A	6.57	1530	270	0.91	0.46	0.0089	<0.0021	<0.0025	7.3	0.03	356	358	106
PT-18	6.59	1267	50	1.89	0.51	0.13	<0.0021	<0.0025	4.7	0.19	250	195	123.0
PT-19	6.88	774	102	1.00	3.36	0.15	<0.0021	<0.0025	3.7	0.16	334	43.7	25
PT-21A	7.02	1202	199	0.93	0.33	0.0043	<0.0021	<0.0025	4.7	0.19	250	195	123
PT-24	6.70	800	250	0.99	0.00	<0.0012	<0.0021	<0.0025	6.2	0.04	310	84.2	16.8
MW-27	6.44	703	301	2.00	na	0.057	<0.0021	<0.0025	6.2	0.32	306	46.1	19.2
MW-29	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
MW-30	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
MW-36	6.93	716	322	1.00	0.00	<0.0012	<0.0021	<0.0025	1.4	0.88	292	53.8	20.2
MW-40	6.96	591	281	1.89	0.04	<0.0012	<0.0021	<0.0025	4.4	0.08	254	55.7	7.9
MW-44A	6.95	3050	137	1.02	0.99	0.053	<0.0021	0.013	8.5	0.01	212	816	421
MW-45	6.92	606	222	1.18	0.18	<0.0012	<0.0021	<0.0025	5.9	0.01	312	28.1	9.7
MW-46	6.75	778	176	0.83	0.38	0.003	<0.0021	<0.0025	2.7	0.01	350	58	13.4
MW-47	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
MW-48	6.87	637	200	0.82	0.15	<0.0012	<0.0021	<0.0025	6	0.01	308	30.1	9.8
MW-56	6.77	801	310	1.00	0.01	0.014	<0.0021	<0.0025	2.1	0.31	284	118	24.9
MW-59	6.63	1394	85	1.18	0.03	0.01	<0.0021	<0.0025	5.9	0.01	656	125	27.8
MW-60	6.72	910	163	0.87	0.06	0.015	<0.0021	<0.0025	4.1	0.01	422	67.5	17.9
FH-S	na	na	na	na	na	na	na	na	na	na	na	na	na
FH-D	na	na	na	na	na	na	na	na	na	na	na	na	na
BN-S	na	na	na	na	na	na	na	na	na	na	na	na	na

na - not analyzed

ns - not sampled due to lack of water

* = Redox values were adjusted to the standard hydrogen electrode.

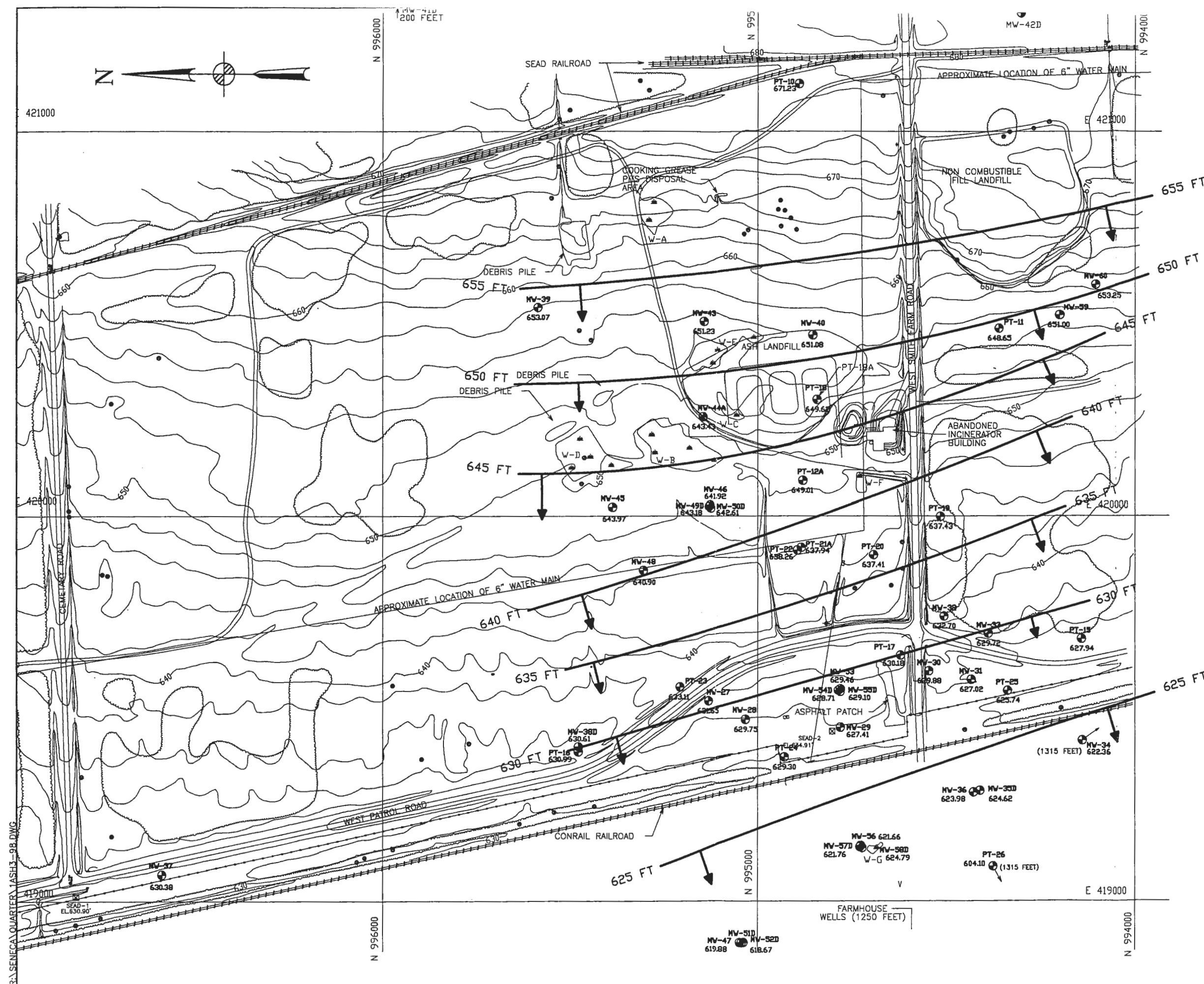


FIGURES

Figure 1

Ash Landfill Groundwater Contour Map for Till/Weathered Shale Aquifer

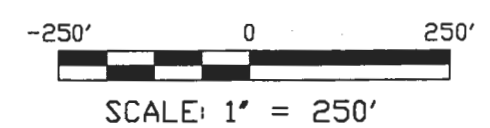




LEGEND:

- PAVED ROAD
- DIRT ROAD
- GROUND CONTOUR AND ELEVATION
- TREE
- WETLAND & DESIGNATION
- APPROXIMATE EXTENT OF FILL
- OUTLINE OF FORMER TRASH PITS (IDENTIFIED FROM AERIAL PHOTO)
- APPROXIMATE EXTENT OF DEBRIS PILE
- BRUSH
- CHAIN LINK FENCE
- UTILITY POLE
- APPROXIMATE LOCATION OF FIRE HYDRANT
- FUEL OR UNDERGROUND STORAGE TANK
- SURVEY MONUMENT
- SEAD-1 EL. 630.90'
- MW-39 653.07 MONITORING WELL, DESIGNATION AND WATER TABLE ELEVATION
- 650.00 - GROUNDWATER ELEVATION CONTOUR
- GROUNDWATER FLOW DIRECTION

NOTE:
GROUNDWATER ELEVATION DATA
COLLECTED SEPTEMBER 18, 1998



PARSONS
PARSONS ENGINEERING SCIENCE, INC.

CLIENT/PROJECT TITLE
**SENECA ARMY DEPOT ACTIVITY
GROUNDWATER MONITORING PROGRAM
ASH LANDFILL - THIRD QUARTER 1998**

DEPT. ENVIRONMENTAL ENGINEERING Dwg. No. 730769-01007

**FIGURE No. 1
GROUNDWATER CONTOUR MAP FOR
TILL/WEATHERED SHALE AQUIFER**

SCALE AS NOTED DATE DECEMBER 1998 REV 0

R:\SENECA QUARTER 1\ASH3-98.DWG



APPENDIX A

FIELD DATA

**Ash Landfill Third Quarter 1998 Groundwater
Monitoring Program**

1. **Groundwater Sampling Field Notes**
2. **Chain-of-Custody Forms**

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100

1. Groundwater Sampling Field Notes

1 case DI water
 2 small Firex
 2 boxes Urthale XL
 2 small Firex
 1 case DI water
 2 boxes Urthale XL
 2 small Firex

Lots of bags: white
 3x white (25)
 2x yellow (25)
 1x yellow (6)
 XL white (12)
 3x yellow (12)
 (42)

9/18/98
 09:10
 09:30
 09:45
 11:00
 11:30

Pickup Den at Syracuse Airport
 Order Gasoline Cart in Syracuse
 Pickup Nitrogen Cans at MG
 Arrive at Depot - Unpack equipment
 Meet with Steve Smith - Utility, etc.

CW Elevation Survey - Ashland, N.H.

Yellow Jackets
~~10.15.98~~

1403	MW-37	OK
1421	MW-15 Yellow Jackets	OK
1423	MW-33	9.84 OK
1424	MW-25	11.35 OK
1426	MW-31	9.68 OK
1430	MW-30	10.44 OK
1432	MW-17	9.86 OK
1435	MW SSD	10.06 OK
1435	MW 54D	10.40 OK
1436	MW 53	9.95 Filled with rocks
1440	MW 29	9.90 OK
1446	MW 32	8.98 OK
1516	MW-19	7.83 Broken riser
Left Ash to pickup equip. at J23		
1523	MW-11	9.57 Protec. Casing Log
1527	MW-59	5.83 OK
1529	MW-60	6.90 OK
1665	9/18/98	

N. and Metcalf

Ash Landfill

9/18/58 G.W. Elevations Cont'd

1541	PT-24	7.10	OK
1543	MW-28	7.46	No stamp OK pad
1548	MW-27	7.67	No Stamp OK
1552	MW-23	8.47	OK
1559	MW-34	10.53	OK
1607	PT-15	9.82	OK
1809	MW-47	8.18	No pad/pict. Case heaved
1810	MW-52D	7.68	OK
1817	MW-56	8.85	Pad + riser heaved Prot. cap cannot be forced
1818	MW-57D	8.06	OK
1820	MW-58D	4.90	OK
1825	MW-36	7.81	OK
1826	MW-35	7.20	pad destroyed
1832	MW-26	10.54	OK

Return to trailer to unpile equipment + supplies from Bldg. 323. Short one cooler of bottles for Ash. One liter HDPE - Lab will send to Holiday Inn Sat

~~9/18/58~~ ~~PT-24~~ ~~7.10~~ ~~OK~~
~~1541~~ ~~1543~~ ~~1548~~ ~~1552~~ ~~1559~~ ~~1607~~ ~~1809~~ ~~1810~~ ~~1817~~ ~~1818~~ ~~1820~~ ~~1825~~ ~~1826~~ ~~1832~~

9/18/58 W.K.H. - Clear, 70's, light wind
 0705 On Site

Calibrate Instruments

LaMotte 2020 Turbid. Meter
 S/N 0792-2758

Parameter	Std	Reading	Set to	Reading
Turbidity	1.0 NTU	0.79	1.00	1.01
	10.0	10.01	—	—

HydroLab Multi-probe S/N 23823
 9.54 mg/L 8.99 9.54 9.54

DO	PH 7	2.00	6.80	7.00	2.00
	PH 4	4.00	4.07	4.00	4.00
	Conductivity	700 μS	673	700	700
	Conductivity	2060 μS	2080	2060	2060
	Redox	PH7/237	310	257	257
	Redox	PH4/472	471	—	—

Redox values have been converted from the instrument's Silver Chloride electrode to the Standard Hydrogen Electrode Std.

6
9/19/98

MW PT-11 POW = 19.52 OUM = 0

SHR = 9.58

Volume = 9.54 ft³ x 1.63 = 1.62 gallons

Inlet 17.5

9/20/98 Instrument Calibrations

HydroLab Multi probe

DO (y/l) Reading Set to

Parameter Std Reading Set to Reading

DO 9.1mg/L 9.31 9-10 9.11

pH 7 7.28 7.00 7.00

pH 4 3.93 4.00 4.00

Cond 700 u/s 687 700 700

Temp 20.0 u/s 20.0 20.60

Redox pH 7/291 275 298 251

pH 4/466 477 - -

9/21/98

Weather, 70°, Cloudy, sparse rain

0700 On Site - Setup for sampling

0800 Trip Blanks AL811

Severn / MRD

0900 Rinse of pumps (2)

We had planned to do QA/QC at

MW-29 - found to be dry during

GW Elevations.

MW-24 Rinse AL812 (STL MRD Split)

VOC (CLP), M/E/E, A/C/S, M/N

MW-18 Rinse AL815

Select Metals (5) Only

AM Spent packer coolers from previous

2 days sampling

9/21/58

Instrument Calibrations

Hydro lab H₂O

DO	8.53	7.00	8.52	7.00	7.00	7.00
pH	7.00	7.00	7.00	7.00	7.00	7.00
pH	4.00	4.06	4.00	4.00	4.00	4.00
Cond	700 uS	671	700	700	700	700
Cond	2060 uS	2100	—	—	—	—
Redox	285 mV	275	285	285	285	285
Redox	462 mV	471	—	—	—	—

Redox connected to Hydrogen Electrode Std

9/22/58

Hydro lab Calibrations

DO	14.0°C	9.4	9.4	9.4	9.4
pH 7	7.00	7.01	7.00	7.00	7.00
pH 4	4.00	4.00	—	—	—
Cond	700 uS	700	—	—	—
Cond	2060 uS	2070	—	—	—
Redox	295 mV	281	295	295	295
Turbidity	470	490	—	—	—
NTU's	1.00	1.07	1.00	1.00	1.00
	10.00	10.06	—	—	—

9/22/58

Well #

WL
N/A

Comments

1530	MU-4			Protec. Casy Settled -
1545	MU-31	7.33		Cannot open top Psd heard 1.0'
1546	MU-9	6.77		Psd heard 0.8'
1552	MU-8	8.18		Riser heard 1.3 1.3'
1557	MU-21	8.14		Cannot lock protective lid - pressure cap only no pressure cap new lock Psd in pieces
1600	MU-5	8.62		OK
1602	MU-36	9.52		Psd in pieces
1603	MU-37	7.00		OK
1609	MU-10	7.31		OK
1612	MU-32	9.50		Psd in pieces
1614	MU-28	10.07		Psd in pieces
1621	MU-25	10.27		Psd heard 0.8'
1623	MU-6			Psd in pieces
1625	MU-11	8.38		Protec. Casy Settled - cannot open lid
1630	MU-24	9.20		Psd heard 0.4'
1632	MU-27	7.50		Psd heard 0.8'
1635	MU-12	6.12		Psd in pieces OK Psd heard 0.4'

Time	Well #	Comments
1637	MW-18	6.16 Pad is pieces well heaved 0.8'
1640	MW-17	6.26 Pad heaved 0.5'
1644	MW-25	11.03 Pad in pieces, riser heaved ~ 0.2'
1646	MW-26	7.34 Pad broken / new lock
1648	MW-7	Protective casing settled - can't open lid - no lock
1650	MW-22	8.75 Pad in pieces, new lock / Pad is heaved 0.8'
1652	MW-23	7.06 Pad in pieces, Pad + riser heaved
		Riser is higher than protective casing
		Cannot lock
1656	MW-15	6.44 Pad heaved 0.4', Riser heaved 0.8'
		Cannot lock well
1700	MW-14	8.13 Pad heaved 1.0', Riser heaved over 1.0'
1705	MW-13	7.31 Cannot use pressure cap, Pad heaved 0.6', Riser heaved 0.8'
1727	MW-16	7.73 lock pressure cap only OK

9/17/98

3rd Quarter
08/15h

DRCS

Time	Well #	Water level	Conditions
1358	PT-10	10.29	
1420	MW-39	6.47	Concrete collar
1427	MW 43	6.50	OK DRCS
1432	MW 44A	10.42	pad heaved ~ 5"
1442	MW 40	8.22	heaved ~ 4"
1447	PT-18	9.06	OK
1450	PT-12	9.29	OK
1456	MW-46	8.49	OK
1459	MW 49D	7.32	OK
1504	MW 50D	7.27	OK
1509	MW 48	7.42	OK
1512	MW 45	6.93	heaved ~ 3-4"
1518	PT 21A	9.79	heaved 4"
1526	PT 22	10.35	* tons of <u>Horset</u> *
1536	PT 20	9.87	OK
1547	PT 16	6.52	OK
1550	PT 38D	7.29	heaved ~ 2-3"
1625	Completed water levels		
1630	Arrive at post 5		
1645	Arrive at Rain trailer		
	decommission pumps		
	Setting up instruments to charge		
1814	MW 51D	8.26	heaved 3-4"

9/18/98

Res

3rd Quarter 98
08/15h/08

9/19/98

DRCS

0700	Arrive Post 1
0715	Arrive Main trailer
	- Calibrations
	- building Bottle sets
0800	- pas King Geos. Trip blanks A/B/D/O
0825	Calibrating am 5805
	# 35286 span gas
	100 ppm Isobutylene '11.1' gm
0916	Setting up on PT-11
0916	water level. 9.58 Toc
0933	Starting pump
	P.O.W. 19.52 intake: 17.5
	Static water level: 9.58
	standing water volume 1.62 gallons
	PID: 0.0
time out	Com Pump rate for temp cond pH Eh DO tests
	recovery rate at 15' less than 80 ml/min
0955	- pumping well down, return for parameters and sampling.
	pumped PT-11 down
	1.5 gallons removed MW-59
1000	Setting up on AL-200
	POW: 9.99 intake: 8.0
	Static water level 5.83 Toc
	DRCS 9/19/98

4/9/19/98

3rd Quarter 98
03/Ash

DECS

Standing water Volume
= $0.163 \times 4.16' = 0.68$ gallons

PID = 0.0 ppm

1009 Start pump

Time	WL	Rate	Vol	Temp	cond	pH	EH	DO	Turb
1013	6.0	240	0.2g						
1029	6.15	100	0.29g	17.55	1400	6.63	80	1.28	1.22
1033	6.15	100	0.29g	17.70	1400	6.63	77	1.27	1.17
1036	6.14	100	0.38gal	17.64	1397	6.63	80	1.26	1.27
1041	6.15	110	0.45gal	17.72	1394	6.63	83	1.19	1.33
1044	6.15	100	0.70gal	17.67	1394	6.63	85	1.18	1.14

1045 Collecting Sample AL-200

for UOA, M/E/E, Alc, clor, sulf, Nitrate
DOC (Field Filtered) Fe⁺² (field)

total Volume removed 0.70 gal +

Sample Volume

1104 Field test for Fe⁺² 0.03 ^{mg/L} (DECS)

1117 MW60 Setup

pow 10.29 Static 6.91

intake : 9.0'

standing water Volume =
 $(10.29 - 6.91) \cdot 0.163 = 0.55$ gal

PID 0.0 ppm

1124 Start pump

9/19/98

3rd Q4 98
Ash/03

DECS

1133 stable WL at 6.98' for AL201

Time	WL	Rate	Vol	Temp	cond	pH	EH	DO	Turb
1135	6.98	120 ml/min @ 20 min	0.50	18.21	9470	6.74	153	1.20	14.1
1139	6.94	100	0.55	18.23	9180	6.73	157	0.98	8.63
1142	6.98	100	0.55	18.01	9130	6.73	157	0.95	6.12
1145	6.98	100	0.60	18.16	9100	6.72	162	0.91	5.77
1148	6.97	100	0.63	18.20	9100	6.73	163	0.88	5.61
1151	6.97	100	0.68	18.12	9100	6.72	163	0.87	3.74

1200 Sampling AL201

total Volume removed

0.70 gal + Sample Volume

VOA, M/E/E, Alc/clor/sulf, nitrate
DOC (Field Filtered), Fe⁺² (field)
Fe⁺² field test : 0.06 mg/L

1210 completed sampling MW60 AL201

1220 lunch

1230 Setting up on PT-19

pow 11.37 pump intake : 10.4

Static WL : 7.86

1241 Start pump

Standing Volume = $3.51 \times 0.163 = 0.57$ gal

PID :

1152 Stable WL at 8.42 @ 120 ml/min

[Signature]

6 9/17/98

3.1 1/4 98
Ash/0.3

DRG

time	WL	Intake	Sum WL	Cont	Temp	Cond	pH	Ek	DO	turb
1255	8.42	100	6.05	15.64	7730	6.70	110	1.17	3.92	
1259	8.46	100	0.25	15.40	7740	6.88	109	1.06	3.17	
1302	8.48	100	0.45	15.54	7720	6.87	104	1.00	1.49	
1305	8.48	100	0.55	15.36	7740	6.88	102	1.00	1.38	

1310 Sampling PT-19 AL 202

UOA, M/E/E, Alk, chlor, Sulf, nitrate
 DOC (field filtered)
 Fe^{12} (field) = 3.36 mg/L
 total Volume removed 0.75 gal +
 Sample Volume.

1327 Completed Sampling PT-19

1330 MW30

POW 10 50' Static WL. 10.44
 water in sump only, will
 not sample

1335 MW48 Setup

POW: 11.5' Intake 8'
 Static 7.45'

Standing Volume = 4.05 * 0.163 = 0.66 gal.

1340 Starting Pump

9-19-98

RG

9/19/98

3.1 1/4 98
Ash/0.3

DRG

time	WL	Rate	Sum WL	Cont	Temp	Cond	pH	Ek	DO	turb
1349	-	80	2.25 gal	20.4	6410	6.88	217	1.02	1.30	
1352	-	80	2.02 gal	19.88	6380	6.88	210	0.87	1.12	
1355	-	80	2.05 gal	19.84	6320	6.87	205	0.84	0.44	
1358	-	80	2.05 gal	19.77	6380	6.87	202	0.86	0.37	
1401	-	80	2.05 gal	19.76	6370	6.87	200	0.85	0.45	
1405	-	80	2.05 gal	19.79	6370	6.87	200	0.82	0.58	

1410 Sampling MW 48 AL 203

UOA (524.2), M/E/E, ALK/chlor/Sulf

Nitrate/nitrite, DOC (field filtered)

Fe^{12} (field) = 0.15 mg/L

Total Volume removed = 0.75 gal +
Sample Volume

1429 Completed Sampling MW 48

1435 MW45 Setup

POW 8.34 Intake. 7.8

Static WL: 6.94'

Standing water Volume =
(8.34 - 6.94) * 0.163 = 0.23 gal

1439 Starting Pump

time	WL	Rate	Sum WL	Temp	Cond	pH	Ek	DO	turb
1444	-	80	0.04	20.33	6040	6.95	216	1.61	11.0
1447	-	80	0.06	21.05	5990	6.94	221	1.51	11.2
1450	-	80	0.16	21.24	6030	6.93	225	1.29	10.9

DRG

7/19/98 MW 45 cont
Sed '14 98

ARK

Time	Wt Rate	Wt	Temp	Cond	pH	Ek	DO	Sub
1453	-	80	21.35	6030	6.93	225	1.24	0.41
1456	-	80	21.10	6070	6.92	225	1.19	6.03
1502	-	80	21.55	6060	6.92	222	1.18	4.19

1510 Pumping
 VOA 524.2, M/E/E, Alk/Chlor/Sulf
 Nitrate/Nitrite, Doc (Fuld Filtered)
 Fe²⁺ (Fuld) 0.18 mg/dl
 total Volume removed: 0.55 gal
 + Sample Vbl.

1530 MW 27
 POW. 10.54 intake = 10.0
 Static WL: 7.69

1545 Standing water Volume =
 (10.54 - 7.69) * 0.163 = 0.46 gallons
 Pumping down MW 27, based
 on past experience this well
 will not recharge at a stable
 rate

- water from MW 27 started
 very turbid with silty slurry down
 stuck, started cleaning up after
 1⁵⁷ .3 gallons
 1557 Surge Pump slightly to pull 5.14
 out

3rd 1/4 98

Ash/OB

ARK

1601 pumped MW 27 dry, removed
 total of .50 gallons

1625 contents of OB/OD triales
 Bar codes from core
 56K meter
 General work plan
 tons of 1L Rad bottles (Sov.)
 Random chemical bottles (Vetri) (Sov) (Sov)

1/2 L poly
 Roll bubble wrap (L)
 3 bicans 984P/398Q
 945P/378Q
 983P/394Q

2 micro-Rs 109912, 109962
 2 micro-Roms C250A, C251A
 check source set L 8680
 AM 241 Source 8920
 hip chain

Phone/Ans Machine
 clicker for gate
 complete sampling MW 45
 Arrive Post-5

1720 Return to fracter
 1750
 1800
 1815 Respect samples in ice
 offsite

ARK

10 9/20/98 3rd Y4 98
Ash 10B

DRL

0700 Arrive Post-1
0710 Arrive Main trailer
- building bottle sets
0740 decoupling pumps
0800 Calibrate O.M. 5800 S/M 35286
Spun Gas Isobutylene 99 ppm
Reads 91.8 ppm
0830 drop off copy of schedule and personnel
list at security
0840 Arrive post-5
- Sign in Ammo
- wait for guard.
0850 Enter Ammo Area
0855 Arrive MW 27
0858 Starting pump on mw 27
Static water level below top of
pump

time	WL	Rate	Vel	Temp	Cond	pH	EL	DO	turb
0904	-	90	0.4	17.48	7180 7180	6.98	300	2.62	482
0907	-	90	0.45	17.66	7170 7170	6.96	300	2.54	577
0910	-	90	0.50	17.99	7100	6.45	300	2.39	504
0913	-	80	0.55	18.12	7060	6.45	300	2.11	427
0916	-	80	0.60	18.12	7040	6.44	300	2.06	329
0919	-	80	0.65	18.19	7030	6.44	301	2.00	234

DRL 9/20/98

9/20/98 3rd Y4 98
Ash 10B

11

0920 Sampling MW 27 AL 204 ²⁰⁵
These parameters not sampled today - well didn't recover 1600 hrs KICs
UoA (524.2), M/E/E, P₁₁ / chlor / sulf
nitrate / nitrite, DOC (field filtered)
Fe⁺² (field) =
Total Volume removed: 0.65 gal
+ Sample Volume
0935 drained well, return to complete sampling later today.
0940 Static water level at
PT-11: 14.31' (TOW).
0945 - Collect parameters, start pump
Time WL Rate Vel Temp Cond pH EL DO turb
0945 15.22 80 1.5 14.68 9900 6.95 309 3.57 12.3
0950 15.36 80 1.55 15.46 9760 6.92 307 3.51 10.1
0954 15.56 80 1.61 15.99 9730 6.90 307 3.60 8.49
0957 15.66 80 1.65 16.20 9750 6.90 308 3.60 7.14
1000 15.78 80 1.70 16.33 9760 6.90 308 3.58 6.68
1006 16.06 80 1.80 16.45 9750 6.90 308 3.55 5.91

1015 Sampling PT-11 AL 206
UoA (524.2), M/E/E, P₁₁ / chlor / sulf,
nitrate / nitrite, DOC (field filtered)
Fe⁺² = 0.15 mg / l
1025 Completed Sampling AL 206

DRL

12 9/20/98 3rd 1/4 98 Ash 1013 P26/KK5

PT-12A Setup
 POW: 12.66 Intake: ~~8.5~~ ^{8.5}
 OVM PID: 12.5 ^{ppm} 11.5
 Static Water level: 9.31
 Standing water Volume =
 (12.66 - 9.31) · 0.163 = 0.55 gallons

1050 starting pump

Time	WL	Rate	Vol	Temp	Cond	pH	Eh	DO	Turb
1057	9.75	200	0.25	17.68	150	6.56	249	1.32	4.40
1104	-	125	0.45	18.21	1520	6.57	272	0.99	2.66
1107	-	125	0.50	18.38	1520	6.57	272	0.91	2.42
1110	-	125	0.70	18.67	1530	6.57	273	0.91	2.08
1114	-	100	0.80	19.10	1530	6.56	271	0.92	1.66
1117	-	100	0.90	19.17	1530	6.57	270	0.91	1.51

1120 Sampling cup PT-12A AL207
 VOA (State), M/E/E, Alk/Chlor/Sulf
 DOC, Nitrate/Nitrite, Fe²⁺ (Field)
 Note: DOC is Field Filtered Fe²⁺ sample was clear - discarded later that val was clouded
 Fe²⁺ 0.46 mg/L
 Paise water in drum
 Sampling complete
 MW 46 Setup
 POW 11.45 Intake 10.5
 Static WL: 8.52
 9-20-98 P26/KK5

9/20/98 3rd 1/4 98 Ash 1013 P26/KK5

MW 46 Cont
 PID: 1.0 ppm
 Standing water Volume
 (11.45 - 8.52) · 0.163 = 0.478 gal
 1150 Starting pump

Time	WL	Rate	Vol	Temp	Cond	pH	Eh	DO	Tub
1154	-	100	0.05	19.57	801	6.76	255	1.3	26.4
1158	-	80	0.10	20.50	789	6.75	234	1.27	30.3
1205	-	80	0.18	21.20	783	6.75	204	1.12	19.6
1208	-	50	0.20	21.57	779	6.75	199	1.03	18.1
1211	-	60	0.25	21.59	781	6.75	192	1.01	11.6
1214	-	60	0.25	21.66	779	6.75	188	1.00	10.1
1217	-	60	0.35	19.15	787	6.75	178	0.87	9.51
1220	-	80	0.45	20.12	779	6.75	173	0.84	7.03
1223	-	90	0.50	19.89	778	6.75	176	0.83	6.79

1225 Sampling AL 208
 VOA (CLP), M/E/E, Alk/Chlor/Sulf,
 DOC, Nitrate/Nitrite / Fe²⁺ (Field)
 Note: DOC Field Filtered * sample was clear
 Fe²⁺ = 0.38 mg/L
 1241 Complete Sampling AL 208 MW 46
 1250 Lunch
 1305 End lunch
 9-20-98 P26/KK5

DRG/KKS

3rd '14 '98

Asst/OB

9/20/98

1310 MW40 Setup

POW: 14.71 Intake 12'
 static water level: 8.24'
 Standing water volume =
 (14.71 - 8.24) * 0.163 = 1.05 Gal.

1321 Start pump

time	wt	Rate	cum vol.	temp	Cond	pH	Ek	DO	turb
1324	8.30	160	0.10	18.47	624	7.04	273	1.74	2.38
1327	8.32	100	0.25	18.76	614	7.01	277	1.84	2.21
1330	8.38	100	0.30	18.65	612	6.99	278	1.89	2.03
1333	8.41	100	0.35	18.72	602	6.98	280	1.89	1.89
1336	8.45	100	0.41	19.36	593	6.77	281	1.90	1.18
1339	8.48	100	0.50	19.81	589	6.97	281	1.91	0.69
1342	8.51	100	0.60	19.78	591	6.96	281	1.89	0.58

1345 Sampling MW40 AL 209

total volume removed 0.95 gallons
 + Sample Volume.

UOC (52x.2), M/E/E, AIK/chlor/suff,
 Nitrate/Nitrite, DOC (field filtered)
 Fe²⁺ (field): 0.04 mg/l ^{cleaned cloud} vial

1400 complete Sampling MW40 AL 209

1408 MW44A Setup

POW: 12.48 Intake: 12.0'
 Static wt: 10.45'

DRG 9-20-98

9/20/98

3rd '14 '98

Asst/OB

DRG/KKS

Standing water volume =
 2.03 * 0.163 = 0.33 gal

1410 Start pump

Time	wt	Rate	cum vol.	Temp	Cond	pH	Ek	DO	turb
1413	-	100	0.05	21.03	3060	7.03	181	1.14	3.87
1416	-	80	0.10	21.21	3060	7.02	176	1.06	3.41
1419	-	80	0.14	21.06	3060	7.00	169	1.02	2.89
1422	-	80	0.20	20.80	3060	6.97	152	1.03	2.53
1425	-	80	0.25	20.56	3050	6.97	143	1.02	2.03
1428	-	80	0.30	20.22	3060	6.96	136	0.98	1.97
1431	-	80	0.35	20.13	3050	6.95	137	1.02	1.68

1440 Sampling AL 210 MW44A

UOA (CLP), M/E/E, AIK/chlor/suff
 Nitrate/Nitrite, DOC (field filtered),
 Select metals

Fe²⁺ (field) = 0.99 mg/l

1505 complete Sampling AL 210

1510 MW21A Setup

POW = 20.4 Intake 15'
 Static wt 9.84

Standing water volume =
 (20.4 - 9.84) * 0.163 = 1.72 gal

1513 starting pump

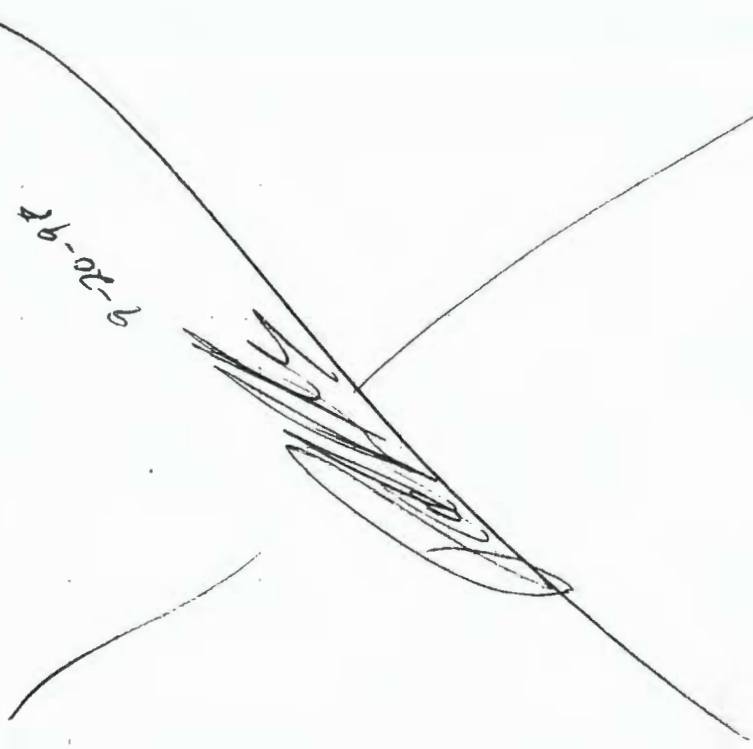
DRG

9/20/98

9/20/98 308 1/4 98
 Ash/08 17

DRG/KKS

1635 Security arrives at Post-5
 1645 Arrive at Trailer
 - Re-icing Samples
 - charging H2O + OUM
 1715 Call Security to get out
 1730 of site



16 9/20/98 308 1/4 98
 Ash/08

DRG/KKS

16005

Time	WL	Rate	Con	Temp	Con	pH	EL	DO	DO	Temp
1528	14.14	100	1.1	17.19	1316	7.08	268	1.06	5.98	
1531	14.28	100	1.25	16.73	1237	7.05	252	0.99	5.03	
1534.5	14.42	100	1.3	16.23	1216	7.04	238	0.98	3.39	
1537	14.58	100	1.35	15.89	1209	7.04	227	0.95	3.01	
1540	14.64	80	1.50	16.03	1200	7.03	213	0.96	3.07	
1543	14.78	80	1.55	15.73	1204	7.02	205	0.94	2.91	
1546	14.89	80	1.65	15.68	1201	7.02	199	0.95	2.73	
1549	15.06	80	1.75	15.59	1202	7.02	199	0.93	2.01	

1555 Sampling AL 211 MW21
 VOA (CLP), Mn/E/E, Alk/Chlor/Sulf,
 Nitrate/Nitrite, DOC (field filtered)
 Fe⁺² (field) = 0.33 mg/L
 Completed Sampling AL211 MW21
 total volume removed 1.85 gallons
 + Sample Volume
 Return to MW 27 to complete

1610 Sampling well was recovered only approx 100 ml
 return to complete Sampling tomorrow
 FIM

1625 Arrive Post-5
 - Call Security

8-20-98

DRG

18 9/21/98

3rd Y4 98
Ash 10B

DRL/KKS

0700 Arrive at Main trailer
0710 Talk to M. Burns
0725 Talk to M. Baker
0810 talking with S. Cleary
instruments available

- pancake Nov 14 98
- Bicron filter oct 14 98

Bicron 978P/379Q

Pancake 61390/019243

- John is still looking for Radon stuffs to see if the buildings have been done.
- expressed some concern about whether he will have the capability to do the duct work in the buildings.
- received Bicron 978P/378Q and Pancake GM 61390 from John. Bicron calibration expires Oct 14th, we should have a new instrument calibrated by then. Pancake expires Nov 14th
- turned over to John Cleary
Bicron 984P/398Q, 945P/378Q, 983P/391Q

DRL 9/21/98

9/21/98

3rd Y4 98
Ash 10B

DRL/KKS

micro-R 109912, 109962
micro-Rem C250A, C251A
- John Cleary will get back to me Wednesday regarding the Radon and the Duct work concerns

0910 Arrive at MW27 to complete sampling.
Static Water level 8 below top of pump

0920 continue sampling MW27
DOC (field filtered)
M/E/E,

0935 pumped well dry, return this pm to finish

1000 Arrive back at trailer

- building bottle sets

1040 spoke with Chris Ouellette from Severn Trent about minimum Volume requirements

N/N 1/4 l

A/C/S 1 l

All metals 1/2 l or less

Cu 1 l

Ph/cnd 1/2 l

TOX full 0 head space
DRL 9/21/98

9/24/98 3rd 1/4 98
Ash/08

1100 dropping 4 covers at
shipping
Severn treat: 3
Evergreen 11
1125 Calibrating OUM 5805
S/V 35286

Spin: Isooctylene 100 ppm
Reads 93.9 ppm
Calibrating humate turbidity meter
10 ntu standard Reads 9.97 ntu
1.0 ntu standard Reads 1.18 ntu
Recalibrate 1 ntu standard
1.0 ntu standard Reads 1.01 ntu

1140 Air Filter
1150 Air ~~Filter~~ ~~PT-18~~
~~PT-18~~ set up
OUM as: 2.4 ppm
Pow: 11.7 Intake 10.7
Stator WL: 8.11 (700)
Standing Water Volume
(11.7 - 8.11) * 0.163 = 0.59 gallons

1208 Starting Pump on PT-18
DLS
9-21-98

9-21-98 3rd 1/4 98
Ash/08

Time WL Rate Vol temp cond pH EH DO turb
1211 below 80 0.05 21.35 1244 6.58 24 1.53 24.3
1214 - 80 0.08 21.80 1286 6.59 9 1.61 14.7
1222 - 80 0.14 20.17 1267 6.59 10 1.81 12.3
1227 Pump controller stops working
1230 Controller fixed check valve on pump

1233 Fixed check valve
1237 - 80 0.25 20.14 1255 6.62 49 1.85 17.0
1240 - 80 0.28 20.80 1235 6.59 49 1.84 15.2
1243 - 70 0.30 21.06 1235 6.58 49 1.86 13.4
1246 - 70 0.35 21.09 1237 6.57 50 1.81 11.5
1249 - 70 0.45 21.51 1236 6.57 50 1.89 9.8

1250 Sampling AL212 PT-18
VOA (CLP), M/E/E, ALK/Chlor/SUF,
Nitrate/Nitrite, Doc (Field Filtered)
Fe²⁺ (Field) = 0.51 mg/L
Select metals, Select metals Dup AL213
Total Volume removed 0.65 gallons
+ Sample Volume.

1315 Complete Sampling AL212 PT18
1325 Lunch.
1340 end lunch
DLS
9-21-98

3rd 14 98
ASH/OB

3rd 14 98
ASK/OB

9/21/98
DRG/KKS

DRG/KKS

1350 MW 29 Setup

POW: 10.54 Intake

Static WL: 10.08

R/D: 0.3 Dam

0.46' of water in well,

not enough to Sample

- According to well pier's Sump on

MW 29 is 0.50 so Water level

is below bottom of Screen interval

1405 MW 24 Setup

R/D = 0.0 Open

POW: 11.70

Static WL: 7.25

Standing water volume -

$(11.90 - 7.25) \cdot 0.163 = 0.78 \text{ gal}$

1415 Starting pump in MW 24

Time	WL	Rate	Temp	Cond	pH	El	DO	turb
1423	7.28	160	0.2	18.84	853	6.74	252	1.05
1426	7.28	160	0.45	18.67	830	6.72	251	1.01
1429	7.29	180	0.60	18.60	820	6.72	250	1.01
1431	7.28	180	0.70	18.50	815	6.71	250	1.00
1434	7.28	180	0.75	18.36	807	6.71	250	1.02
1437	7.28	180	0.8	18.29	798	6.71	250	1.00
1440	7.27	180	0.9	18.28	789	6.70	250	0.99

DRG 9-21-98

1445 Sampling MW 24
AL213 - (SA, MS, MSD, VOA (CLP))

M/E/E, M/E/E M/RD Split

Alk/Clor/Sulf, Nitrate/Nitrite, Fe+2

AL814 - VOA (CLP) Duplicate

M/E/E

Alk/Chlor/Sulf

Nitrate/Nitrite

Fe+2

Fe+2 (field) SA = 0.01 mg/l

Fe+2 (field) DU = 0.00 mg/l

RB metals PT-18, VOA, MEE, AKS, AL213
M/RD on MW 24

Completed Sampling AL213 MW 24

Total Volume removed: 1.25 gal

+ Sample Volume

dumping purge water from

PT-18 and MW 45 in drum

ASHSW.

Drum ASHSW is now Full

Stop at 323 to pickup

Series

Return to trailer to

pack Samples

Filling out Master Sample list.

DRG 9-21-98

24 4/22/98 3rd 1/4 98
DRG/KKS Ash/103

0700 Sign-in at Post -1
0715 Arrive at trailer
- talk to M. Baker about NEVA/onsite people,
UXO clearance in 03/10P
Packing Samples for shipment

0745 Calibrate OUM 5805 s/n 35286
Spec: Isobutylene 100 ppm
Read: 91.8 ppm
0815 Rinse blank AL817
VOA (524.2) only attached to MW 36

0830 AL 816 TB VOA (524.2)
Dividing bottle sets
0930 Arrive MW 27
Continue sampling AL 205
pump controller is not working
(complete sampling with a
bailer sampling H/C/S
- water to turbid for Fe²⁺ field
analysis)

1000 Return to trailer to fix
Controller - controller may have power problem -
worked at trailer

9/22/98

3rd 1/4 98
DRG/KKS Ash/103

1035 Called Fed Ex for pickup of cooler at Post 1 - Pickup # 31
Air bill #

1105 Sampling yarn well at the Slates & VOA (524.2)
barn well is AL 216
MW 47 sety
POW: 8.86 Intake:
Static WL: 8.20

1125 Static water level is below bottom of screen: not enough water to Sample.
MW 56 Setup
POW 6.88 Intake: ~~6.3~~ ^{6.25} 6.3
Static WL: 6.05

1133 Volume of well
(6.88 - 6.05) * 0.163 = 0.14 gal
PIP: 0.3 ppm
removed 0.3 gallons with bailer
Starting pump

time	WL	Rate	Temp	Condo	pH	Eh	DO	turb
1152	-	100	0.35	17.63	7.77	6.80	3.11	1.48
1155	-	100	0.42	17.49	7.99	6.78	3.11	1.18
1158	-	100	0.50	17.48	7.99	6.78	3.11	1.07

DRG 9-22-98

3rd 1/4 98
Ash/103

9-22-98

9-22-98

3rd 1/4 98

Ash/08

DRG/KKS

DRG/KKS

MW 56 Cont.

MW 36 Continued

Time	WL	Rate	Vol	Temp	Cond	pH	Eh	DO	turb
1201	~	100	0.56	17.53	800	6.77	311	1.01	4.34
1204	-	100	0.65	17.55	800	6.77	311	0.99	2.53
1207	-	100	0.72	17.55	801	6.77	310	0.98	2.02
1210	-	100	0.80	17.58	801	6.77	310	1.00	1.53

Time	WL	Rate	Vol	Temp	Cond	pH	Eh	DO	turb
1421	8.12	280	0.50	15.28	719	6.94	327	0.94	0.91
1424	8.18	280	0.65	15.19	718	6.93	326	0.94	0.31
1427	8.19	280	0.85	15.09	718	6.93	323	0.99	0.26
1430	8.26	240	0.98	15.09	716	6.93	322	1.00	0.29

1215 Sampling MW 56 AL 217

Sampling AL 218 MS vac early

UOC (524.2) N/E/E A/K (chlor/sulf)

AL 818 Dup vac early

nitrate / nitrite, Doc (field filtered)

SA : Uoc (524.2), M/E/E

Fe¹² (field) 0.01 mg/L

A/K / chlor / sulf, Nitrate / Nitrite

1245 completed Sampling AL 217 (mw56)

Doc (field filtered)

1300 drop off cores at fed-ex (323)

Fe¹² (field) = 0.11 mg/L

- talk to M. Buns about

Fe¹² Sample bottle had a layer of

QM/QC requirements for Seal-12

Film on it, clean bottle and

M. Baker, but TC-Ds

re-test

1405 MW 36 set up

Fe¹² test 2 = 0.00 mg/L

Pow 16.58 intake = 11.0'

Complete Sampling MW 36

State WL : 8.02'

Water levels at 03 seconds

Standing water volume =

well # water level condition

(16.58 - 8.02) x 0.163 = 1.40 gallons

mw 38 7.57' heaved ~ 4"

1410 Start pump

mw 39 7.94' heaved ~ 8"

time WL Rate Vol Temp Cond pH Eh DO turb

mw 40 6.88' heaved ~ 8"

1415 8.14 280 0.15 15.53 726 6.96 325 1.23 0.84

MW 45-3 10.49 OK

1418 8.16 280 0.25 15.36 720 6.94 328 1.05 0.91

MW 45-2 11.53 OK

DRG 9-22-98

DRG 9-22-98

2.5 1/4 92
Asst. 163

9-22-98

DRGs

time well win Condition
 1606 MW-1 7.99 OK
 1610 MW-2 Completion Knocked
 completely over, PVC riser
 broken off at surface
 water level is 4.20' to ground surface
 - eastern most ballrod also knocked
 over

1620 Could not open MW-4 as
 4" PVC riser is heaved up
 into completion.
 1623 MW45-4 9.07' (very thin
 and heaved up 7-8" OK
 1640 MW-1 8.24' OK
 1607 MW30 8.57' complete collar
 broken up
 1721 MW-19 Completely dry
 1750 Return to trailers
 - icing samples for night.
 1810 off site

[Signature]
 PES

9-23-98

3rd X1 98

Ash/DB

DRGs

0700 Sign-in at post-1
 0710 Arrive Main trailer
 0800 - packing samples for shipment -
 pouring in-use blank
 OB805

0830 packing bottles for shipment
 Shipping M/E to evergreen
 and MRU today

0950 calibrating HydroLab

Parameter	Std	Reading	Set to	Reading
DO mg/L	(14.6)	10.26	10.26	10.26
PH	PH 7	7.05	7.00	7.00
	PH 4	4.11	4.00	4.00
Cond (us)	700	2040	2060	2065
	705	705	—	—

Rebox (mv) (15.7) 304 297 304 304
 (15.8) 488 498

Lamotte 2020
 turbidity 10.0 into 10.09
 1.0 into 1.01
 1035 loading Van.
 1130 MW45-3 Set up

Pow: 14.09 Intake: 13.5
 Static wt: 10.54

DRG

9-23-98

3-14-98

9-23-98

9-23-98

3-14-98

DRG

OB/ASH

OB/ASH

DRG/KEL

MW45-3 cont.

Standing water Volume

$$(14.04 - 10.54) \cdot 0.163 = 0.58 \text{ gallons}$$

1135 Starting pump - problem with controller again - skipped cycles - stopped completely for 10 min. -

1150 Continue purge - GW very turbid -

pumping @ 80-100 ml/min, maintaining

W/L @ 10.8' us mV ns/L NTU

Time	WL	Rate	Vel	Temp	Cond	pH	eh	DO	Turb
1208	11.37	130	0.5	17.54	1560	6.83	336	2.08	4.97
1213	BTOP	120	0.75	17.41	1560	6.83	335	1.54	
1219	BTOP	100	1.20	17.29	1570	6.82	331	1.10	6.46
1223	BTOP	100	1.25	17.19	1570	6.81	331	1.00	
1226	BTOP	90	1.27	17.22	1570	6.83	330	0.98	2.00
1230	Sample #	#OB150 Metal, CN, Suite							
		#OB151 TOX, TOC, pH, Cond. (ie. Suite)							
		#OB152 "							
		#OB153 "							

1330 Sampled metals Cyanide and Spec. rad/pH sampled before well full dry.

1340 Barlow test on MW45-2
 Level well dry, No recovery
 over 35 minutes

1345

MW14 Setup

POW: 10.58 Intake: 9.55

Static WL: 8.17'

Standing Water Volume =

$$(10.58 - 8.17) \cdot 0.163 = 0.39 \text{ gal.}$$

1355 starting pump

Time	WL	Rate	Vel	Temp	Cond	pH	eh	DO	Turb
------	----	------	-----	------	------	----	----	----	------

1402	BTOP	130	0.24	17.29	1076	6.73	327	1.31	1.94
------	------	-----	------	-------	------	------	-----	------	------

Note: 4' x 4' pad and protective casing has frost heaved ~0.8' and tilted - thereby

binding the riser to the point that a boiler or bladder pump will not enter.

We were able to push on the attached protective post and corrected the tilt so a pump could be installed - at the price of initial high turbidity.

1404	BTOP	160	0.40	17.38	1017	6.71	325	1.05	79.8
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1420	BTOP		0.75	17.29	1016	6.72	330	1.01	52.2
------	------	--	------	-------	------	------	-----	------	------

1426	BTOP		1.25	17.31	1076	6.71	328	1.05	277
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1433	BTOP	140	1.50	17.27	1076	6.72	327	1.10	12.9
------	------	-----	------	-------	------	------	-----	------	------

1439	BTOP	140	1.65	17.28	1076	6.72	328	1.03	13.0
------	------	-----	------	-------	------	------	-----	------	------

1440 Sample MW-14 #AL154 Metals, CN, Suite

Metals = AL155, Suite (TOX, TOC, pH, Cond.)
 6.93 NTUs AL156 Suite
 AL157 Suite

32 9/23/98

3rd Yr 98
Ash OB 11.5

Weather Sunny, 70°F, 10-15 mph

DRG

1527 Setup @ MW-12

Static = 6.71' POW = 9.17'

Intake = 85' Volume = 0.40 gal

1531 Start Pumping

Time	Wk	Vol	Rate	Temp	Cond	pH	eh	DO	Turb
1540	6.38	0.6	200-400	17.08	823	6.97	322	0.81	12.6
1548	6.38	1.30	70	17.07	825	6.93	308	0.73	5.2
1550	6.38	1.45	100	17.09	825	6.94	301	0.69	5.0
1555	6.38	1.20	100	17.07	825	6.93	300	0.68	4.98

1555 Sample MW-12 #5

AL158 = Metals, CN, TOX, TOC, pH, Cond

AL158 includes: MS/MSD - Metals + CN Only

MRD - Metals, CN, TOX, TOC

pH + Cond

AL159 (DUF) Metals + CN Only

AL159 - TOX, TOC, pH, + Cond

AL160

AL161

1700 Complete Sampling MW-12

total volume removed @ 1.8 gal +
Sample Volume.

1720 leaving Hinnno

1725 - arrive trailer

- packing samples

1800 off site

9-23-98

DRG

9-24-98

3rd Yr 98
Ash/GB

33

DRG

0655

Sign on job - 1

0710

arrive trailer

- talk to 111 Burns about
collection order for seal-12

- M. Baker about Becky Croger
planning to drive from Colorado
and charge mileage, asked
M. Baker to relay to Mr. Dehner

0810

packing bottles for shipment

0840

calibrate H₂O

Parameter	Std	Read	Set to	Result	
DO	(13°C) 10.90	10.63	10.4	10.39	
pH	pH 7	7.13	7.00	6.99	
	pH 4	4.01	—	—	
Cond (µS)	2060	2070	2060	2060	
	700	694	700	700	
Redox (mv) (14.5°C)	306	305 308	306	306	m7
Redox (mv) (15°C)	478	471			m4

Lamette 2020

turbidity 10.0 ntu 9.81 10.0 9.99

10 ntu 1.05 — —

1000 dropping off Compressor and
Samples at 323

1125 Arrive at MW45-3

DRG

9-24-98

34 9-24-98

5:00 1/4 92
Ash/Old

PLGs

1135 Continue Sampling MW95-3 OB150
TOX, TOC, Spec. Cond, pH
1200 got a flat tire on the way
to MW27
- change tire
1230 Arrive

- MW27 setup intake 11.5'
Flow 15.46' static 7.53
Standing water Volume:
(15.46' - 7.53) 0.163 = 1.2 gallons

1230 Start pump.
Parameters

Time	WT	Vol	Rate	Temp	Cond	pH	eh	DO	Turb
1235	8.05	0.3	300	15.45	1834	6.91	311	1.00	1.28
1239	8.05	0.75	750	15.81	446	6.89	313	0.80	1.20
1242	8.05	1.25	1000	15.74	870	6.89	313	0.74	1.09
1245	8.05	1.70	1350	15.74	851	6.89	313	0.70	1.09
1248	8.05	1.65	1300	15.74	852	6.90	313	0.73	1.02

1250 Sample MW27

OB162 - Metals, CN, TOX, TOC, pH, Cond
OB163 - TOX, TOC, pH, Cond
OB165 = "
OB164 = "

9-24-98
PLG

9-24-98

3:54 98
Ash/Old

PLGs

1315 completed sampling MW27
total volume retained: 1.6 gal
+ Sample Volume
1325 MW13 setup
Flow: 10.14 intake: 4.5
Static 7.39
Standing water Volume =
(10.14 - 7.39) x 0.163 =

1338 Start pumping
Parameters

Time	WT	Vol	Rate	Temp	Cond	pH	eh	DO	Turb
1350	7.70	0.4	240	17.70	913	6.58	251	0.82	3.86
1354	7.70	1.0	240	17.87	911	6.56	267	0.74	2.05
1359	7.70	1.25	240	17.92	910	6.56	271	0.75	1.60
1402	7.70	1.50	240	17.72	912	6.56	275	0.74	1.75

1410 Sample MW-13

OB166 = Metals, CN, TOX, TOC, pH, Cond
OB167 = TOX, TOC, pH, Cond
OB168 = "
OB169 = "

MHS Complete sampling MW13 (OB166 - OB169)
IDW: Purge water from all OB/O2
wells were put in Drum OB-1
Start 6/30/94 - 90% Full Location:
9-24-98 Near MW-12
PLG

3rd 4/1 98
OB/Ash

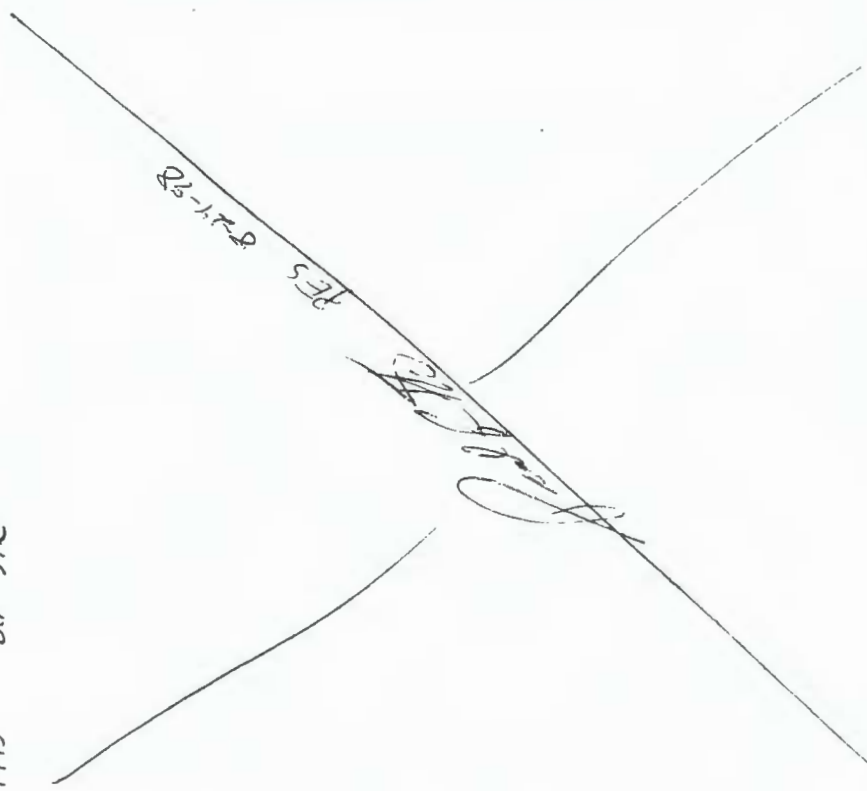
1505 parking up bubble way @ 323
 1525 Return to trailer, packing
 Samples + instruments
 1645 leaving for engineering building
 and post-1
 1715 off site

8-24-98

3rd Quarter 98

DRE

0700 Sign in post-1
 0715 Arrive trailer
 - power is out, packing coolers
 POWER BACK ON
 - moving equipment down
 to the OB/OD trailers
 0830 sign in at post-5
 0845 Arrive at ~~post-5~~ OB/OD
 - unloading Van
 - setting up computer
 leaving OB/OD trailers
 for post-5
 0950 leaving post-5
 1015 talk to John Warner (Maxim)
 1020 - John Warner (Driller)
 - Rodney Bush (helper)
 - Walt Cather (backhoe)
 will arrive at post-1 around
 9:AM, will call OB/OD
 - fire dept. inspection before
 they post-1
 talk to M. Baker
 1035 - guy from Onsite will arrive
 Monday Morning either to Hotel (Cocoma)
 or post-1 (Maxim)



Rs-1-78

975

DRE

9/25/98

3rd Quarter 98

38

DRG

- guy from NEUA will not arrive until the 5th of Oct.

1200 lunch

1235 end lunch

- message on machine from Becky Cooper
- for the air sampling filters should be 0.45 micron
- flow rate should be $2 \text{ ft}^3/\text{min} = 56 \text{ l/min}$
- talking to M. Burns about buying out a bigger air sampling pump
- Mark Burns will discuss it with Art Schartz
- Mack will bring out 2 Vacuum pumps with him for Monday.

2. Chain-of-Custody Forms



30 Dan Road
Canton, MA 02021
Phone: 781-401-3200
Fax: 781-401-2575

CHAIN-OF-CUSTODY RECORD

PAGE 1 OF 1

JOB NO. 730769-01007
PROJECT Soreca 3rd Qtr '98
CONTACT Mike Duchesneau

LABORATORY Evergreen Analytical
ADDRESS Wheat Ridge, CO
CONTACT Shes Greiner

SAMPLE NO.	LABORATORY SAMPLE NO.	SAMPLING		SAMPLE DEPTH	SAMPLE MATRIX	ANALYSES											M/E	NO. OF CONTAINERS	COMMENTS (Special instructions, cautions, etc.)
		DATE	TIME			VOA	SVOC	METALS	CN										
AL205		9/21/98	0920		water												X	3	
AL201		9/19/98	1200		↓												X	3	
AL202		9/19/98	1310														X	3	
AL203		9/19/98	1410														X	3	
AL204		9/19/98	1510														X	3	
AL206		9/20/98	1015														X	3	
AL207		9/20/98	1120														X	3	
AL208		9/20/98	1225														X	3	
AL200		9/19/98	1045														X	3	
AL209		9/20/98	1345														X	3	
AL210		9/20/98	1440														X	3	
AL211		9/20/98	1555														X	3	
Sampled and Relinquished by Sign <i>[Signature]</i> Print <u>Kerry Smith</u> Firm <u>Parsons ES</u> Date <u>9/21/98</u> Time		Received by Sign Print Firm Date Time		VOA Vial Glass Bottle Plastic Bottle Preservative Container Volume		PRESERVATION KEY: C - Acidified with HCl A - Ice D - Acidified with HNO ₃ B - Filtered E - Acidified with H ₂ SO ₄ F - NaOH + Ascorbic G - Other											REMARKS: (Sample storage, nonstandard sample bottles) Balance of samples will arrive by Fri Quote # 1785		
Relinquished by Sign Print Firm Date Time		Received by Sign Print Firm Date Time															Cooler #:		
Evidence Samples tampered with? <input type="checkbox"/> No <input type="checkbox"/> Yes If Yes, explain in remarks.																			

CHAIN-OF-CUSTODY RECORD

JOB NO. 730769-01007
PROJECT Screen 3rd Qtr '98 - Ash
CONTACT Mike Duchesneau

LABORATORY STL
ADDRESS Colchester, VT
CONTACT Chris Ouellette

SAMPLE NO.	LABORATORY SAMPLE NO.	SAMPLING		SAMPLE DEPTH	SAMPLE MATRIX	ANALYSES										NO. OF CONTAINERS	COMMENTS (Special instructions, cautions, etc.)	
		DATE	TIME			VOA	NYSDEC	CLP	DOC	METALS	CN	Nitrate	Nitrite	Ammonia	DOC			
AL207		9/20/98	1120	11.5	water	X											3	
AL208		9/20/98	1225	10.5	water	X					X	X	X				7	
AL210		9/20/98	1440	12.0 13.0 14.0	water	X											3	
AL211		9/20/98	1555	15.0 16.0 17.0 18.0 19.0 20.0	water	X											3	
KXS																		

Sampled and Relinquished by
Sign [Signature]
Print Kerry Smith
Firm Parsons ES
Date 9/21/98 Time 1200

Received by
Sign
Print
Firm
Date Time

VOA Vial	X													X
Glass Bottle														
Plastic Bottle										X	X			
Preservative	A									A	A	A		
	C									E	E	E		
Container Volume	50									1	1	40		
	ml									L	L	ml		

REMARKS: (Sample storage, nonstandard sample bottles)
SDG # 2 (VOA NYSDEC)

Relinquished by
Sign
Print
Firm
Date Time

Received by
Sign
Print
Firm
Date Time

PRESERVATION KEY:
C - Acidified with HCl
D - Acidified with HNO₃
E - Acidified with H₂SO₄
F - NaOH + Ascorbic
G - Other

Evidence Samples tampered with? No Yes
If Yes, explain in remarks.

Cooler #: **008**



PARSONS ENGINEERING SCIENCE, INC.

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CHAIN-OF-CUSTODY RECORD

PAGE 1 OF 1

JOB NO. 730769-01007
PROJECT Sereca 3rd Qtr '98 - Ash
CONTACT Mike Dehasseu

LABORATORY STL
ADDRESS Colchester, VT
CONTACT Chris Adette

SAMPLE NO.	LABORATORY SAMPLE NO.	SAMPLING		SAMPLE DEPTH	SAMPLE MATRIX	ANALYSES								NO. OF CONTAINERS	COMMENTS (Special instructions, cautions, etc.)	
		DATE	TIME			VOA	SVOC	METALS	CN	Nitrate	Nitrite	Am/Clp	Sulf			DOC
AL207		9/20/98	1120	11.5	Water							X	X	X	4	
AL210		9/20/98	1440	12.0	Water			X				X	X	X	4	
AL211		9/20/98	1555	19.0	Water							X	X	X	4	
REMAINING SAMPLES DESTROYED																

Sampled and Relinquished by
Sign [Signature]
Print Kerry Smith
Firm Parsons ES
Date 9/21/98 Time 1200

Received by
Sign
Print
Firm
Date Time

VOA Vial												X
Glass Bottle												
Plastic Bottle									X	X		
Preservative									A	A	A	
Container Volume									E	E		
									1	1	40	
									L	L	ml	

REMARKS: (Sample storage, nonstandard sample bottles)
SDG # 2 (VOA CLP)

Relinquished by
Sign
Print
Firm
Date Time

Received by
Sign
Print
Firm
Date Time

PRESERVATION KEY: C - Acidified with HCl F - NaOH + Ascorbic
A - Ice D - Acidified with HNO₃ G - Other
B - Filtered E - Acidified with H₂SO₄

Evidence Samples tampered with? No Yes
If Yes, explain in remarks.

Cooler #: 007

CHAIN-OF-CUSTODY RECORD

JOB NO. 730769-01007
PROJECT Severn 3rd Qtr. '98 - Ash Landfill
CONTACT Mike Duchesneau

LABORATORY Severn Treat
ADDRESS Colchester, VT
CONTACT Chris Oullette

SAMPLE NO.	LABORATORY SAMPLE NO.	SAMPLING		SAMPLE DEPTH	SAMPLE MATRIX	ANALYSES										NO. OF CONTAINERS	COMMENTS (Special instructions, cautions, etc.)	
		DATE	TIME			VOA	SVOC	METALS	GH	Nitrate	Nitrite	DOC	Alk/Chloride	Sulfide				
AL209		9/20/98	1345	12.0'	Water							X	X	X			4	
AL201		9/19/98	1200	9.0'	↓							X	X	X			4	
AL206		9/20/98	1015	—								X	X	X			4	
AL204		9/19/98	1510	7.8'		X						X	X	X			5	
AL200		9/19/98	1045	8.0'								X	X	X			4	
<i>KXS</i>																		

Sampled and Relinquished by
Sign *[Signature]*
Print Kerry Smith
Firm Parsons ES
Date 9/21/98 Time 1200

Received by
Sign
Print
Firm
Date
Time

VOA Vial													X
Glass Bottle													
Plastic Bottle											X		X
Preservative											A	A	A
Container Volume											E	E	
											L	40	1
											L	ml	L

REMARKS: (Sample storage, nonstandard sample bottles)
DOC Samples were field filtered - .45um
SDG #1 (524.2 VOA)

Relinquished by
Sign
Print
Firm
Date
Time

Received by
Sign
Print
Firm
Date
Time

PRESERVATION KEY: C - Acidified with HCl
F - NaOH + Ascorbic
A - Ice
D - Acidified with HNO₃
G - Other
B - Filtered
E - Acidified with H₂SO₄

Evidence Samples tampered with? No Yes
If Yes, explain in remarks.

Cooler #: C01720
LANCASTER

CHAIN-OF-CUSTODY RECORD

PAGE 1 OF 2

PARSONS
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Canton, MA 02021
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Fax: 781-401-2575

JOB NO. 730769-01007
PROJECT Screen 3rd Qtr. '98 - ASB
CONTACT Mike Duchesneau

LABORATORY STL
ADDRESS Colchester VT
CONTACT Chris Ouellette

SAMPLE NO.	LABORATORY SAMPLE NO.	SAMPLING		SAMPLE DEPTH	SAMPLE MATRIX	ANALYSES										NO. OF CONTAINERS	COMMENTS (Special instructions, cautions, etc.)	
		DATE	TIME			VOA 524.2	SVOC	METALS	CN	Nitrate	Nitrite	Ammonia	Alk/Chlor	Sulfide	DOC			
AL 810		9/19/98	0800	N/A	water	X											2	Trip Blank
AL 200		9/19/98	1045	8.0'		X											3	
AL 201		9/19/98	1200	9.0'		X											3	
AL 202		9/19/98	1310	10.4'		X					X	X	X				7	
AL 203		9/19/98	1410	8.0'		X					X	X	X				7	
AL 204		9/19/98	1510	7.8'		X					X	X	X				7	
AL 205		9/20/98	0920	10.0'		X											3	Only VOC's collected on 9/20/98 - Steve
AL 206		9/20/98	1015	—		X											3	
AL 209		9/20/98	1345	12.0'		X											3	

Sampled and Relinquished by
Sign [Signature]
Print Kerry Smith
Firm Parsons ES
Date 9/21/98 Time 1200

Received by
Sign
Print
Firm
Date _____ Time _____

VOA Vial	X								X
Glass Bottle									
Plastic Bottle							X	X	
Preservative	A						A	A	A
	C						E	E	
Container Volume	40						1	1	40
	ml						L	L	ml

REMARKS: (Sample storage, nonstandard sample bottles)
SDG 1 (VOA 524.2)

Relinquished by
Sign
Print
Firm
Date _____ Time _____

Received by
Sign
Print
Firm
Date _____ Time _____

PRESERVATION KEY: C - Acidified with HCl
A - Ice
B - Filtered
D - Acidified with HNO₃
E - Acidified with H₂SO₄
F - NaOH + Ascorbic
G - Other

Cooler #: 008



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CHAIN-OF-CUSTODY RECORD

PAGE 1 OF 1

JOB NO. 730769-01007
PROJECT Sonaca 3rd Qtr '98 - Ash Landfill
CONTACT Mike Duchesneau

LABORATORY STL
ADDRESS Colchester, VT
CONTACT Chris Ouellette

SAMPLE NO.	LABORATORY SAMPLE NO.	SAMPLING		SAMPLE DEPTH	SAMPLE MATRIX	ANALYSES											NO. OF CONTAINERS	COMMENTS (Special instructions, cautions, etc.)	
		DATE	TIME			VOA	CLP	SVOC	METALS (S)	CR	ALK/CHL	SVIF	NITRATE	NITRITE	DOC				
AL811		9/21/98	0800		Water	X												2	Trip Blank
AL815		9/21/98	0900						X									1	Rinse Blank
AL213		9/21/98	1445			X				X	X	X						13	Matrix Spike VOC-CLP Only
AL814		9/21/98	1445			X				X	X	X						7	
AL212		9/21/98	1250			X		X		X	X	X						5	
AL812		9/21/98	0900			X			X	X	X							7	Rinse Blank
AL813		9/21/98	1250					X										1	
AL205		9/21/98	0920											X				2	Partial set - slow wall
KES																			

Sampled and Relinquished by		Received by	
Sign <i>[Signature]</i>		Sign	
Print <i>Kerry Smith</i>		Print	
Firm <i>Parsons ES</i>		Firm	
Date <i>9/22/98</i> Time <i>1100</i>		Date	Time
Relinquished by		Received by	
Sign		Sign	
Print		Print	
Firm		Firm	
Date	Time	Date	Time
Evidence Samples tampered with? <input type="checkbox"/> No <input type="checkbox"/> Yes If Yes, explain in remarks.			

VOA Vial	X										X
Glass Bottle											
Plastic Bottle			X		X	X					
Preservative	A	C	D		A	A	A		E	E	
Container Volume	40	ml	1	L	1	1	40	ml			
PRESERVATION KEY: C - Acidified with HCl F - NaOH + Ascorbic A - Ice D - Acidified with HNO ₃ G - Other B - Filtered E - Acidified with H ₂ SO ₄											

REMARKS: (Sample storage, nonstandard sample bottles)
 DOC was Field Filtered
 SDG # 2 (VOC CLP)
 Metals - Select 5
 Complete SDG # 2
 Cooler #:

Quote # 1785

PARSONS <small>PARSONS ENGINEERING SCIENCE, INC.</small>		CHAIN-OF-CUSTODY RECORD										PAGE 1 OF 1								
30 Dan Road Canton, MA 02021 Phone: 781-401-3200 Fax: 781-401-2575		JOB NO. <u>730769-01007</u>					LABORATORY <u>Evergreen</u>													
		PROJECT <u>Seneca 3rd Qtr. '98</u>					ADDRESS <u>Wheat Ridge, CO</u>													
		CONTACT <u>Mike Duchesneau</u>					CONTACT <u>Shea Grainer</u>													
SAMPLE NO.	LABORATORY SAMPLE NO.	SAMPLING		SAMPLE DEPTH	SAMPLE MATRIX	ANALYSES										NO. OF CONTAINERS	COMMENTS <small>(Special instructions, cautions, etc.)</small>			
		DATE	TIME			VOA	SVOC	METALS	CN	M/E/E										
AL217		9/22/98	1215		water											X	3			
AL218		9/22/98	1430		water											X	3			
AL212		9/21/98	1250		water											X	3			
AL213		9/21/98	1445		water											X	3			
AL812		9/21/98	0900		water											X	3	Rinse Black		
AL814		9/21/98	1445		water											X	3			
KKS						KKS														
Sampled and Relinquished by Sign Print <u>Kerry Smith</u> Firm <u>Parsons ES</u> Date <u>9/23/98</u> Time <u>1000</u>		Received by Sign Print Firm Date Time			VOA Vial Glass Bottle Plastic Bottle Preservative												X A C 40 1		REMARKS: (Sample storage, nonstandard sample bottles) Phase return cooler to Parsons ES c/o Seneca Army Depot Building 323 Romulus, NY 14541 Sampling Complete	
Relinquished by Sign Print Firm Date Time		Received by Sign Print Firm Date Time			Container Volume															
Evidence Samples tampered with? <input type="checkbox"/> No <input type="checkbox"/> Yes If Yes, explain in remarks.					PRESERVATION KEY: C - Acidified with HCl F - NaOH + Ascorbic A - Ice D - Acidified with HNO ₃ G - Other B - Filtered E - Acidified with H ₂ SO ₄												Cooler #:			

LIMS # 5307

PARSONS PARSONS ENGINEERING SCIENCE, INC. 30 Dan Road Canton, MA 02021 Phone: 781-401-3200 Fax: 781-401-2575		CHAIN-OF-CUSTODY RECORD										PAGE 1 OF 1						
JOB NO. 730769-01007		LABORATORY MRD								ADDRESS Onaka, NB		CONTACT Sample Custodian						
PROJECT Seneca 3rd Qtr. 1998		CONTACT Mike Duchesneau																
SAMPLE NO.	LABORATORY SAMPLE NO.	SAMPLING		SAMPLE DEPTH	SAMPLE MATRIX	ANALYSES										COMMENTS (Special instructions, cautions, etc.)		
		DATE	TIME			VOA	SVOC	METALS	CN	M/E/E	VOA-MYDEC	NO. OF CONTAINERS						
AL812		9/21/98	0900		water										X	3	Rinse Blank	
AL811		9/14/98	0800		↓										X	2	Trip Blank - Sampled by Lab*	
AL812		9/21/98	0900 ^{KFS}		↓										X	3	Rinse Blank	
AL213		9/21/98	1445		↓										X	X	6	
KFS																		
LIMS # 5307																		
Sampled and Relinquished by Sign <i>[Signature]</i> Print Kerry Smith Firm Parsons ES Date 9/23/98 Time 1000		Received by Sign Print Firm Date Time				VOA Vial Glass Bottle Plastic Bottle Preservative Container Volume PRESERVATION KEY: C - Acidified with HCl F - NaOH + Ascorbic A - Ice D - Acidified with HNO ₃ G - Other B - Filtered E - Acidified with H ₂ SO ₄										REMARKS: (Sample storage, nonstandard sample bottles) * Seneca Trant Labs Colchester, VT Please Return cooler to: Parsons Engineering Science c/o Seneca Army Depot Building 323 Romulus, NY 14541 Cooler #:		
Relinquished by Sign Print Firm Date Time		Received by Sign Print Firm Date Time				Evidence Samples tampered with? <input type="checkbox"/> No <input type="checkbox"/> Yes If Yes, explain in remarks.												



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CHAIN-OF-CUSTODY RECORD

PAGE 1 OF 1

JOB NO. 730769-01007
PROJECT Seneca 3rd Qt - '98
CONTACT Mike Duchesneau

LABORATORY Severn Trent Labs
ADDRESS Colchester, VT
CONTACT Chris Oellette

SAMPLE NO.	LABORATORY SAMPLE NO.	SAMPLING		SAMPLE DEPTH	SAMPLE MATRIX	ANALYSES										COMMENTS (Special instructions, cautions, etc.)			
		DATE	TIME			VOA 524.2	SVOC	METALS	CN	DOC	MW/CS/OP	Sulf	Nitrates	Nitrite	NO. OF CONTAINERS				
AL205		9/22/98	0940		water										X	X	2	slow well complete	
AL218		9/22/98	1430		↓	X								X	X	X		Matrix Spike vocs only	
AL217		9/22/98	1215			X									X	X	X		
AL818		9/22/98	1430			X												3	
AL816		9/14/98	0800			X												2	Trip Blank - sampled by STL
AL216		9/22/98	1105			X												3	
AL215		9/22/98	1120			X												3	Bubbly Water - rotten egg smell
AL214		9/22/98	1110			X												3	
AL817		9/22/98	0817			X												3	Rinse Blank

KKS

ES

Sampled and Relinquished by
Sign *[Signature]*
Print *Kerry Smith*
Firm *Parsons ES*
Date *9/23/98* Time *1000*

Received by
Sign
Print
Firm
Date
Time

VOA Vial	X													X			
Glass Bottle																	
Plastic Bottle															X	X	
Preservative	A													A	A	A	
	C													E	E		
Container Volume	40													40	1	1	
	51													51	L	L	

REMARKS: (Sample storage, nonstandard sample bottles)
Complete SDG #1 (VOA 524.2)
Ash Landfill Complete

Relinquished by
Sign
Print
Firm
Date
Time

Received by
Sign
Print
Firm
Date
Time

PRESERVATION KEY:
C - Acidified with HCl
F - NaOH + Ascorbic
A - Ice
D - Acidified with HNO₃
G - Other
B - Filtered
E - Acidified with H₂SO₄

Evidence Samples tampered with? No Yes
If Yes, explain in remarks.

Cooler #: *005*

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30 Dan Road
 Canton, MA 02021 Phone: 781-401-3200
 Fax: 781-401-2575

CHAIN-OF-CUSTODY RECORD

PAGE 1 OF 1

JOB NO. 730769-01007
 PROJECT Series 3rd Qtr '98 OB/OD
 CONTACT Mike Duchesneau

LABORATORY STL
 ADDRESS Colchester VT
 CONTACT Chris Ouellette

SAMPLE NO.	LABORATORY SAMPLE NO.	SAMPLING		SAMPLE DEPTH	SAMPLE MATRIX	ANALYSES							NO. OF CONTAINERS	COMMENTS (Special instructions, cautions, etc.)
		DATE	TIME			VOA	SVOC	METALS	CN	TOX	TOC	pH/Cond		
OB805		9/23/98	0800		Water			X	X	X	X			Raise Blank
OB806		9/23/98	1555		↓			X	X					
OB150		9/23/98	1230		↓		X	X	X	X	X			
ES														

Sampled and Relinquished by
 Sign *[Signature]*
 Print Kerry Smith
 Firm Parsons ES
 Date 9/25/98 Time 1600

Relinquished by
 Sign
 Print
 Firm
 Date Time

Received by
 Sign
 Print
 Firm
 Date Time

VOA Vial						X
Glass Bottle					X	
Plastic Bottle		X	X			X
Preservative		A	A	A	A	A
		D	F	E	E	
Container Volume		1	1	250	40	200
		L	L	-1	-1	-1

PRESERVATION KEY:
 C - Acidified with HCl F - NaOH + Ascorbic
 A - Ice D - Acidified with HNO₃ G - Other
 B - Filtered E - Acidified with H₂SO₄

REMARKS: (Sample storage, nonstandard sample bottles)

Cooler #: 48



30 Dan Road
Canton, MA 02021
Phone: 781-401-3200
Fax: 781-401-2575

CHAIN-OF-CUSTODY RECORD

PAGE 1 OF 1

JOB NO. 730765-01007
 PROJECT Sevens 3rd Qtr '98 - 06/00
 CONTACT Mike Duchesneau

LABORATORY STL
 ADDRESS Colchester, VT
 CONTACT Chris Ouellette

SAMPLE NO.	LABORATORY SAMPLE NO.	SAMPLING		SAMPLE DEPTH	SAMPLE MATRIX	ANALYSES							NO. OF CONTAINERS	COMMENTS (Special instructions, cautions, etc.)
		DATE	TIME			VOA	SVOC	METALS	CN	TOX	TOC	pH/Cond		
OB154		9/23/98	1440		water			X	X	X	X	X	6	
OB155		↓	↓		↓					X	X	X	4	
OB156		↓	↓		↓					X	X	X	4	
OB157		↓	↓		↓					X	X	X	4	
OB158		↓	1555		↓	X	X	X	X	X	X	X	9	Metric Spike - Met/CN Only
OB159		↓	↓		↓					X	X	X	4	
OB160		↓	↓		↓					X	X	X	4	
OB161		↓	↓		↓					X	X	X	4	
		KTS												

Sampled and Relinquished by
 Sign [Signature]
 Print Kerry Smith
 Firm Parsons ES
 Date 9/24/98 Time 1000

Received by
 Sign _____
 Print _____
 Firm _____
 Date _____ Time _____

Relinquished by
 Sign _____
 Print _____
 Firm _____
 Date _____ Time _____

Received by
 Sign _____
 Print _____
 Firm _____
 Date _____ Time _____

VOA Vial						X
Glass Bottle					X	
Plastic Bottle		X	X			X
Preservative		A	A	A	A	A
Container Volume		D	F	E	E	
		1	1	250	40	500
		L	L	ml	ml	ml

PRESERVATION KEY: C - Acidified with HCl F - NaOH + Ascorbic
 A - Ice D - Acidified with HNO₃ G - Other
 B - Filtered E - Acidified with H₂SO₄

REMARKS: (Sample storage, nonstandard sample bottles)

 Cooler #: 014

LIMS # 5307

CHAIN-OF-CUSTODY RECORD PAGE 1 OF 1

PARSONS ENGINEERING SCIENCE, INC.
 30 Dan Road
 Canton, MA 02021
 Phone: 781-401-3200
 Fax: 781-401-2575

JOB NO. 730769-01007
 PROJECT Spec 3rd Qtr '98 - 08/00
 CONTACT Mike Duchesneau

LABORATORY MRD
 ADDRESS Oncha, NB
 CONTACT Sample Custodian

SAMPLE NO.	LABORATORY SAMPLE NO.	SAMPLING		SAMPLE DEPTH	SAMPLE MATRIX	ANALYSES							NO. OF CONTAINERS	COMMENTS (Special instructions, cautions, etc.)
		DATE	TIME			SVOC	METALS	CN	TOX	TOC	pH/cond			
OB805		9/23/98	0800		water		X	X	X	X			5	Rise Blank
OB806	158	9/23/98	1555		water		X	X	X	X			6	
<i>MS</i>														

Sampled and Relinquished by
 Sign *[Signature]*
 Print Kerry Smith
 Firm Parsons ES
 Date 9/27/98 Time 1000

Received by
 Sign _____
 Print _____
 Firm _____
 Date _____ Time _____

VOA Vial									X
Glass Bottle								X	
Plastic Bottle			X	X					X
Preservative			A	A	A	A	A		
Container Volume			D	F	E	E			
			1	1	250	40	500		
			L	L	ml	ml	ml		

REMARKS: (Sample storage, nonstandard sample bottles)
LIMS # 5307
Sampling Complete
 Return Cooler to:
 Parsons Engineering Science
 90 Searles Army Depot
 Building 323
 Rumulus, NY 14541
 Cooler #: **18**

Relinquished by
 Sign _____
 Print _____
 Firm _____
 Date _____ Time _____

Received by
 Sign _____
 Print _____
 Firm _____
 Date _____ Time _____

PRESERVATION KEY: C - Acidified with HCl
 F - NaOH + Ascorbic
 A - Ice
 D - Acidified with HNO₃
 B - Filtered
 E - Acidified with H₂SO₄
 G - Other

Evidence Samples tampered with? No Yes
 If Yes, explain in remarks.



PARSONS ENGINEERING SCIENCE, INC.

30 Dan Road
Canton, MA 02021
Phone: 781-401-3200
Fax: 781-401-2575

CHAIN-OF-CUSTODY RECORD

PAGE 1 OF 1

JOB NO. 730769-01007
PROJECT Seneca 3rd Qtr '98 08/0D
CONTACT Mike Duchesneau

LABORATORY STL
ADDRESS Calchester VT
CONTACT Chris Ouellette

SAMPLE NO.	LABORATORY SAMPLE NO.	SAMPLING		SAMPLE DEPTH	SAMPLE MATRIX	ANALYSES							NO. OF CONTAINERS	COMMENTS (Special instructions, cautions, etc.)	
		DATE	TIME			VOA	SVOC	METALS	CN	TOX	TOC	pH/Cond			
OB164		9/24/98	1250		water					X	X	X		4	
OB162		9/24/98						X	X	X	X	X		6	
OB163		↓	↓							X	X	X		4	
OB165		↓	↓							X	X	X		4	
OB166		↓	1410					X	X	X	X	X		6	
OB167		↓	↓					X	X	X	X	X		4	
OB168		↓	↓					X	X	X	X	X		4	
OB169		↓	↓					X	X	X	X	X		4	

Sampled and Relinquished by
Sign [Signature]
Print Kerry Smith
Firm Person ES
Date 9/25/98 Time 1500

Received by
Sign _____
Print _____
Firm _____
Date _____ Time _____

VOA Vial _____ X
Glass Bottle _____ X
Plastic Bottle _____ X X
Preservative _____ A A A A A
D F E D

REMARKS: (Sample storage, nonstandard sample bottles)
Sampling Complete

Relinquished by
Sign _____
Print _____
Firm _____
Date _____ Time _____

Received by
Sign _____
Print _____
Firm _____
Date _____ Time _____

Container Volume _____
PRESERVATION KEY: C - Acidified with HCl
A - Ice D - Acidified with HNO₃
B - Filtered E - Acidified with H₂SO₄
F - NaOH + Ascorbic
G - Other

Evidence Samples tampered with? No Yes
If Yes, explain in remarks.

Cooler #: 027

Parameters	NET		NET	GTC	PES		PES		PES		PES		PES	
	Mar 1992	June 1992			Dec 1992	Jan 1993	April 1993	June 1993	Nov 1993	Jan 1994	July 1994	Sept 1994	Dec 1994	Mar 1995
	2	3			4	1	2	3	4	1	2	3	4	1
VOLATILE ORGANICS														
Chloromethane	624	624	624											
Bromomethane	ND	ND	ND											
Vinyl Chloride	ND	ND	ND											
Chloroethane	ND	ND	ND											
Methylene Chloride	ND	ND	ND											
1,1-Dichloroethane	ND	ND	ND											
1,1-Dichloroethane	ND	ND	ND											
Chloroform	ND	ND	ND											
1,2-Dichloroethane	ND	ND	ND											
1,1,1-Trichloroethane	ND	ND	ND											
Carbon Tetrachloride	ND	ND	ND											
Bromodichloromethane	ND	ND	ND											
1,2-Dichloropropane	ND	ND	ND											
cis-1,4-Dichloropropene	ND	ND	ND											
Trichloroethene	ND	ND	ND											
Dibromodichloroethane	ND	ND	ND											
1,1,2-Trichloroethane	ND	ND	ND											
Benzene	ND	ND	ND											
trans-1,3-Dichloropropene	ND	ND	ND											
Bromoforn	ND	ND	ND											
Tetrachloroethene	ND	ND	ND											
1,1,2,2-Tetrachloroethane	ND	ND	ND											
Toluene	ND	ND	ND											
Chlorobenzene	ND	ND	ND											
Ethylbenzene	ND	ND	ND											
2-Chloromethyl Vinyl Ether	ND	ND	ND											
1,3-Dichlorobenzene	ND	ND	ND											
1,2-Dichlorobenzene	ND	ND	ND											
1,4-Dichlorobenzene	ND	ND	ND											
1,2-Dichloroethene (total)	ND	ND	ND											
cis-1,2-Dichloroethene	ND	ND	ND											
trans-1,2-Dichloroethene	ND	ND	ND											
Trichlorofluoroethane	ND	ND	ND											
Acetone	ND	ND	ND											
Carbon Disulfide	ND	ND	ND											
4-Methyl-2-Pentanoie	ND	ND	ND											
2-Hexanone	ND	ND	ND											
Nonylene	ND	ND	ND											
Xylene (total)	ND	ND	ND											
Total Volatile Organics	U	U	U											

Parameters	Source: Units	PES														
		June 1995	Sept 1995	Jan 1996	Mar 1996	June 1996	Sept 1996	Dec 1996	Mar 1997	June 1997	Mar 1998	Jun 98	Sept 98			
		2	3	4	524.2	524.2	524.2	524.2	524.2	524.2	524.2	524.2	524.2	524.2	524.2	524.2
VOLEATILE ORGANICS																
Chloroethane	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoethane	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,4-Trichloroethane	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromo-chloroethane	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylchloroethene	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3,4-trichloropropene	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl Ether	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene (total)	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethoethane	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-Pentanone	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Hexanone	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylene (total)	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Volatile Organics	µg/l	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

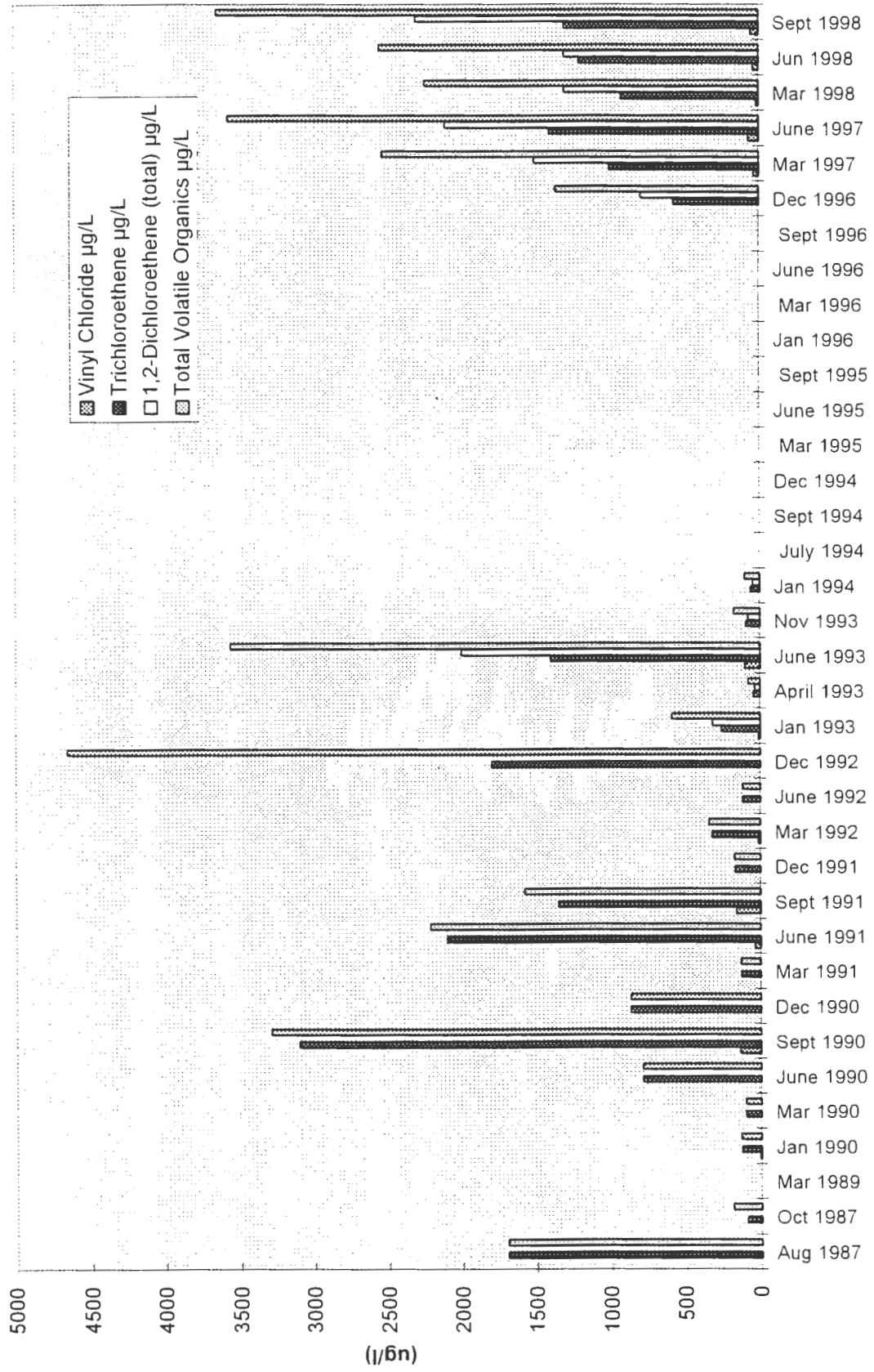
P1-11
Ash Landfill

Parameters	Source: Units	Galson		NET		NET		NET		NET		NET		NET	
		Oct 1987	Mar 1989	Jan 1990	Mar 1990	June 1990	Sept 1990	Dec 1990	Mar 1991	June 1991	Sept 1991	Dec 1991	3	4	
METALS															
Aluminum	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Antimony	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	mg/L	ND	ND	-	-	-	-	-	ND	-	-	-	-	ND	-
Barium	mg/L	0.008	0.095	-	-	-	-	-	0.084	-	-	-	-	0.23	-
Beryllium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	mg/L	ND	ND	-	-	-	-	-	ND	-	-	-	-	ND	-
Calcium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	mg/L	ND	ND	-	-	-	-	-	0.25	-	-	-	-	ND	-
Cobalt	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron	mg/L	ND	ND	-	-	-	-	-	140	-	-	-	-	1.88	-
Lead	mg/L	ND	ND	-	-	-	-	-	0.05	-	-	-	-	ND	-
Magnesium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	mg/L	ND	ND	-	-	-	-	-	ND	-	-	-	-	ND	-
Nickel	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Potassium	mg/L	2.63	2.1	-	-	-	-	-	20	-	-	-	-	2.48	-
Selenium	mg/L	ND	ND	-	-	-	-	-	ND	-	-	-	-	ND	-
Silver	mg/L	ND	ND	-	-	-	-	-	ND	-	-	-	-	ND	-
Sodium	mg/L	59	46	-	-	-	-	-	54	-	-	-	-	38	-
Thallium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MISCELLANEOUS															
Ethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO2	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ferrous Iron	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sulfide	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DOC	mg C/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Redox Potential	mV	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alkalinity (total)	mg CaCO3/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Halogens/Halides (TOX)	mg/L	33	0.01	-	-	-	-	-	10.3	-	-	-	-	0.028	-
Chloride	mg/L	49	46	-	-	-	-	-	40	-	-	-	-	41.4	-
Conductivity (field)	umhos/cm	1200	770	490	740	1200	840	710	1112	1000	1110	-	-	-	-
Conductivity (lab)	umhos/cm	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrite Nitrogen	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrate/Nitrite Nitrogen	mg/L	0.1	0.12	-	-	-	-	-	0.34	-	-	-	-	0.22	-
Nitrate as N - Calculation	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH (Lab)	std. units	7.2	7.8	-	-	-	-	-	7.4	-	-	-	-	7.2	-
pH (field)	std. units	8.1	-	6.5	7.22	7.22	7.4	6.4	8.65	6.54	7.4	-	-	6.5	7.4
Sulfate	mg/L	160	190	-	-	-	-	-	68	-	-	-	-	143.4	-
Total Organic Carbon (TOC)	mg/L	2.7	4.4	-	-	-	-	-	17	-	-	-	-	9.4	-
Temperature (field)	Celsius	-	-	9	8	14	8	7	11	13	7	-	-	13	7
Nephelometric Turbidity Units	NTUs	-	-	-	-	-	-	-	-	-	-	-	-	-	-

PI-11
Ash 1 am00H

Parameters	Source:	NET Mar 1992	NET June 1992	NET Dec 1992	CFC	PES Jan 1993	PES April 1993	PES June 1993	PES Nov 1993	PES Jan 1994	PES July 1994	PES Sept 1994	PES Dec 1994	PES Mar 1995	
	Units	2	2	3	4	1	2	2	3	4	1	2	3	4	
METALS															
Aluminum	mg/L	-	-	-	-	117	-	469000	-	-	-	-	-	-	
Antimony	mg/L	-	-	-	-	ND	-	ND	-	-	-	-	-	-	
Arsenic	mg/L	0.271	-	-	-	0.0024	-	1.20	-	-	-	-	-	-	
Barium	mg/L	-	-	-	-	0.333	-	15300	-	-	-	-	-	-	
Beryllium	mg/L	-	-	-	-	0.0015	-	0.43	-	-	-	-	-	-	
Cadmium	mg/L	ND	-	-	-	ND	-	ND	-	-	-	-	-	-	
Calcium	mg/L	-	-	-	-	334	-	155000000	-	-	-	-	-	-	
Chromium	mg/L	ND	-	-	-	0.0161	-	5000	-	-	-	-	-	-	
Chromium	mg/L	-	-	-	-	0.0372	-	ND	-	-	-	-	-	-	
Cobalt	mg/L	-	-	-	-	0.0403	-	6.26	-	-	-	-	-	-	
Copper	mg/L	15.8	-	-	-	17.8	-	4860000	-	-	-	-	-	-	
Iron	mg/L	ND	-	-	-	0.0177	-	500	-	-	-	-	-	-	
Lead	mg/L	-	-	-	-	69.2	-	3750000	-	-	-	-	-	-	
Magnesium	mg/L	-	-	-	-	318	-	181000	-	-	-	-	-	-	
Manganese	mg/L	-	-	-	-	0.0015	-	ND	-	-	-	-	-	-	
Mercury	mg/L	ND	-	-	-	0.0055	-	ND	-	-	-	-	-	-	
Nickel	mg/L	-	-	-	-	5.27	-	156000	-	-	-	-	-	-	
Potassium	mg/L	4.7	-	-	-	ND	-	ND	-	-	-	-	-	-	
Selenium	mg/L	ND	-	-	-	ND	-	ND	-	-	-	-	-	-	
Silver	mg/L	ND	-	-	-	ND	-	ND	-	-	-	-	-	-	
Sodium	mg/L	37.1	-	-	-	46.6	-	8500000	-	-	-	-	-	-	
Thallium	mg/L	-	-	-	-	ND	-	ND	-	-	-	-	-	-	
Vanadium	mg/L	-	-	-	-	0.0156	-	8.20	-	-	-	-	-	-	
Zinc	mg/L	-	-	-	-	0.136	-	12.30	-	-	-	-	-	-	
Cyanide	mg/L	-	-	-	-	ND	-	ND	-	-	-	-	-	-	
MISCELLANEOUS															
Ethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	
CO2	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	
Petroleum	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	
Sulfide	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	
DR-C	mg/C/L	-	-	-	-	-	-	-	-	-	-	-	-	-	
Redox Potential	mV	-	-	-	-	-	-	-	-	-	-	-	-	-	
Alkalinity (total)	mg CaCO3/L	-	-	-	-	-	-	-	-	-	-	-	-	-	
Total Organic Halogens (TOX)	mg/L	ND	-	-	-	ND	-	ND	0.05	0.04	-	-	-	-	
Chloride	mg/L	35.4	-	-	-	40	-	43	48.0	47	33	-	-	-	
Conductivity (field)	µmhos/cm	1000	1010	-	-	700	-	800	800	-	-	-	-	-	
Conductivity (lab)	µmhos/cm	918	-	-	-	1000	1100	90000	840	910	-	-	-	-	
Nitrite Nitrogen	mg/L	-	-	-	-	ND	-	ND	0.10	0.09	0.27	-	-	-	
Nitrate/Nitrite Nitrogen	mg/L	ND	-	-	-	0.4	-	ND	-	-	-	-	-	-	
Nitrate as N - calculation	mg/L	-	-	-	-	0.4	-	-	-	-	-	-	-	-	
pH (lab)	std units	7.3	-	-	-	7.4	7.40	7.29	7.34	7.36	-	-	-	-	
pH (field)	std units	6.96	7.18	-	-	7.38	-	7.17	-	-	-	-	-	-	
Sulfate	mg/L	169	-	-	-	281	170	10010	47	110	-	-	-	-	
Total Organic Carbon (TOC)	mg/L	7	-	-	-	3.2	3	ND	1	2	-	-	-	-	
Temperature (field)	Celsius	8	10	-	-	6.8	-	12.6	-	-	-	-	-	-	
Nephelometry Turbidity Units	NTU's	-	-	-	-	>200	-	-	-	-	-	-	-	-	

PT-12



Note: Well was not sampled Mar 1989 and July 1994-Sept 1996.

PT-12
Ash Landfill

Parameters	Source: Units	Galson	Galson	Galson	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET
		Aug 1987	Oct 1987	Mar 1989	Jan 1990	Mar 1990	June 1990	Sept 1990	Dec 1990	Mar 1991	June 1991	Sept 1991	Dec 1991	Mar 1992
					1	1	2	3	4	1	2	3	4	2
VOLATILE ORGANICS					624	624	624	624	624	624	624	624	624	624
Chloromethane	µg/L	ND	ND	-	ND	ND	ND	51	ND	ND	ND	ND	ND	ND
Bromomethane	µg/L	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	µg/L	ND	ND	-	7	ND	ND	140	ND	ND	35	160	1.5	14
Chloroethane	µg/L	ND	ND	-	ND	ND	ND	ND	ND	ND	30	ND	ND	ND
Methylene Chloride	µg/L	ND	ND	-	ND	ND	ND	ND	ND	2	ND	ND	ND	ND
1,1-Dichloroethene	µg/L	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	7.15	ND	ND
1,1-Dichloroethane	µg/L	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	µg/L	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	µg/L	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	µg/L	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	µg/L	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	µg/L	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	µg/L	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	µg/L	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	µg/L	1700	94	-	129	100	790	6100	870	130	2100	1350	170	323
Dibromochloromethane	µg/L	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	µg/L	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	µg/L	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	µg/L	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	µg/L	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	µg/L	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	µg/L	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	µg/L	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	µg/L	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	µg/L	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl Ether	µg/L	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	µg/L	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	µg/L	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	µg/L	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene (total)	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	µg/L	ND	95	-	ND	ND	ND	ND	1	51	63	2.7	5.8	
Trichlorofluoromethane	µg/L	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon Disulfide	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Methyl-2-Pentanone	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Hexanone	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylene (total)	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Volatile Organics	µg/L	1700	189	0	136	100	790	6241	870	133	2216	1580.15	174.2	342.8

PI-12
Ash Landfill

Parameters	Source:											
	NET June 1992	GTC Dec 1992	ES Jan 1993	ES April 1993	ES June 1993	ES Nov 1993	ES Jan 1994	ES July 1994	ES Sept 1994	ES Dec 1994	ES Mar 1995	ES June 1995
	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	ND	ND	9	ND	100	ND	ND	ND	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	ND	ND	ND	ND	63	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	ND	6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromo-chloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	119	1800	260	45	1400	93	58					
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoforn	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl Ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene (total)	ND	ND	320	36	2000	81	44					
cis-1,2-Dichloroethene	ND	2800										
trans-1,2-Dichloroethene	ND	54										
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-Pentanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Hexanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylene (total)	ND	4660	589	81	5564	176	102					
Total Volatile Organics	119	4660	589	81	5564	176	102	0	0	0	0	0

PT-12
Ash Landfill

Parameters	Source: Units	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES
		Sept 1995 3	Jan 1996 4	Mar 1996 1	June 1996 2	Sept 1996 3	Dec 1996 4	Mar 1997 1	June 1997 2	Mar 1998 1	Jun 1998 2	Sept 1998 3
VOLATILE ORGANICS							NYSDEC	NYSDEC	NYSDEC	NYSDEC	NYSDEC	NYSDEC
Chloromethane	µg/l.	-	-	-	-	-	ND	ND	ND	ND	ND	ND
Bromomethane	µg/l.	-	-	-	-	-	ND	ND	ND	ND	ND	ND
Vinyl Chloride	µg/l.	-	-	-	-	-	ND	32	70	15	33	47
Chloroethane	µg/l.	-	-	-	-	-	ND	ND	ND	ND	17	ND
Methylene Chloride	µg/l.	-	-	-	-	-	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	µg/l.	-	-	-	-	-	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	µg/l.	-	-	-	-	-	ND	ND	ND	ND	ND	ND
Chloroform	µg/l.	-	-	-	-	-	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	µg/l.	-	-	-	-	-	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	µg/l.	-	-	-	-	-	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	µg/l.	-	-	-	-	-	ND	ND	ND	ND	ND	ND
Bromodichloromethane	µg/l.	-	-	-	-	-	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	µg/l.	-	-	-	-	-	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	µg/l.	-	-	-	-	-	ND	ND	ND	ND	ND	ND
Trichloroethene	µg/l.	-	-	-	-	-	570	1000	1400	920	1200	1300
Dibromochloromethane	µg/l.	-	-	-	-	-	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	µg/l.	-	-	-	-	-	ND	ND	ND	ND	ND	ND
Benzene	µg/l.	-	-	-	-	-	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	µg/l.	-	-	-	-	-	ND	ND	ND	ND	ND	ND
Bromoform	µg/l.	-	-	-	-	-	ND	ND	ND	ND	ND	ND
Tetrachloroethene	µg/l.	-	-	-	-	-	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	µg/l.	-	-	-	-	-	ND	ND	ND	ND	ND	ND
Toluene	µg/l.	-	-	-	-	-	ND	ND	ND	ND	ND	ND
Chlorobenzene	µg/l.	-	-	-	-	-	ND	ND	ND	ND	ND	ND
Ethylbenzene	µg/l.	-	-	-	-	-	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl Ether	µg/l.	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichlorobenzene	µg/l.	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichlorobenzene	µg/l.	-	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	µg/l.	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethene (total)	µg/l.	-	-	-	-	-	790	1500	2100	1300	1300	2300
cis-1,2-Dichloroethene	µg/l.	-	-	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	µg/l.	-	-	-	-	-	-	-	-	-	-	-
Trichlorofluoromethane	µg/l.	-	-	-	-	-	-	-	-	-	-	-
Acetone	µg/l.	-	-	-	-	-	ND	ND	ND	ND	ND	ND
Carbon Disulfide	µg/l.	-	-	-	-	-	ND	ND	ND	ND	ND	ND
4-Methyl-2-Pentanone	µg/l.	-	-	-	-	-	ND	ND	ND	ND	ND	ND
2-Hexanone	µg/l.	-	-	-	-	-	ND	ND	ND	ND	ND	ND
Styrene	µg/l.	-	-	-	-	-	ND	ND	ND	ND	ND	ND
Xylene (total)	µg/l.	-	-	-	-	-	ND	ND	ND	ND	ND	ND
Total Volatile Organics	µg/l.	0	0	0	0	0	1300	2532	3570	2235	2550	3647

P1-12
Ash Landfill

Parameters	Source: Units	Gabson - Gabson		Gabson - Gabson		NET		NET		NET		NET		NET		
		Aug 1987	Oct 1987	Mar 1989	Jan 1990	Mar 1990	June 1990	Dec 1990	Dec 1990	Sept 1991	June 1991	Dec 1991	Sept 1991	Dec 1991	Mar 1992	
METALS																
Aluminum	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Antimony	mg/l	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	mg/L	-	ND	ND	-	-	ND	-	-	ND	-	-	-	-	-	-
Barium	mg/L	-	0.05	0.031	-	-	ND	-	-	0.04	-	-	-	0.073	-	0.142
Beryllium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	mg/L	-	ND	ND	-	-	ND	-	-	ND	-	-	-	ND	-	ND
Calcium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	mg/L	-	ND	ND	-	-	0.01	-	-	ND	-	-	-	ND	-	ND
Cobalt	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron	mg/L	-	ND	ND	-	-	4.5	-	-	2.03	-	-	-	4.76	-	20.3
Lead	mg/L	-	ND	0.12	-	-	ND	-	-	ND	-	-	-	ND	-	ND
Magnesium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	mg/L	-	-	ND	-	-	ND	-	-	ND	-	-	-	ND	-	ND
Potassium	mg/L	-	2.58	1.8	-	-	ND	-	-	2.39	-	-	-	3.26	-	4.83
Selenium	mg/L	-	ND	ND	-	-	ND	-	-	ND	-	-	-	ND	-	ND
Silver	mg/L	-	ND	ND	-	-	ND	-	-	ND	-	-	-	ND	-	ND
Sodium	mg/L	-	1.00	45	-	-	37	-	-	15.8	-	-	-	1.29	-	47.4
Thallium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MISCELLANEOUS																
Ethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO2	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Petroleum Ion	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sulfide	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DOC	mg C/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Redox Potential	mV	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alkalinity (total)	mg CaCO3/l	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Halogens (TOX)	mg/l	2.08	180	0.085	-	-	0.15	-	-	0.87	-	-	-	1.722	-	0.27
Chloride	mg/L	-	158	40	-	-	36	-	-	20.2	-	-	-	264	-	19.1
Conductivity (field)	µmhos/cm	-	1,300	1,400	520	460	2700	2500	860	2220	2210	1080	1645	2250	1025	1025
Conductivity (lab)	µmhos/cm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrite Nitrogen	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrate/Nitrite Nitrogen	mg/L	-	0.33	1.4	-	-	0.44	-	-	0.32	-	-	-	0.24	-	0.52
Nitrate as N - Calculated	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH (field)	mg/L	-	7	7.8	-	-	7.1	-	-	7	-	-	-	7	-	7.2
pH (lab)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sulfate	mg/L	-	289	300	-	-	290	-	-	159.5	-	-	-	307.5	-	26.4
Total Organic Carbon (TOC)	mg/L	-	2.9	2.4	-	-	33	-	-	9.8	-	-	-	8.1	-	2
Temperature (field)	Celsius	-	-	-	-	-	8	5	15	14	8	7	12	15	10	6
Turbidity	NTUs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

PI-12
Ash Landfill

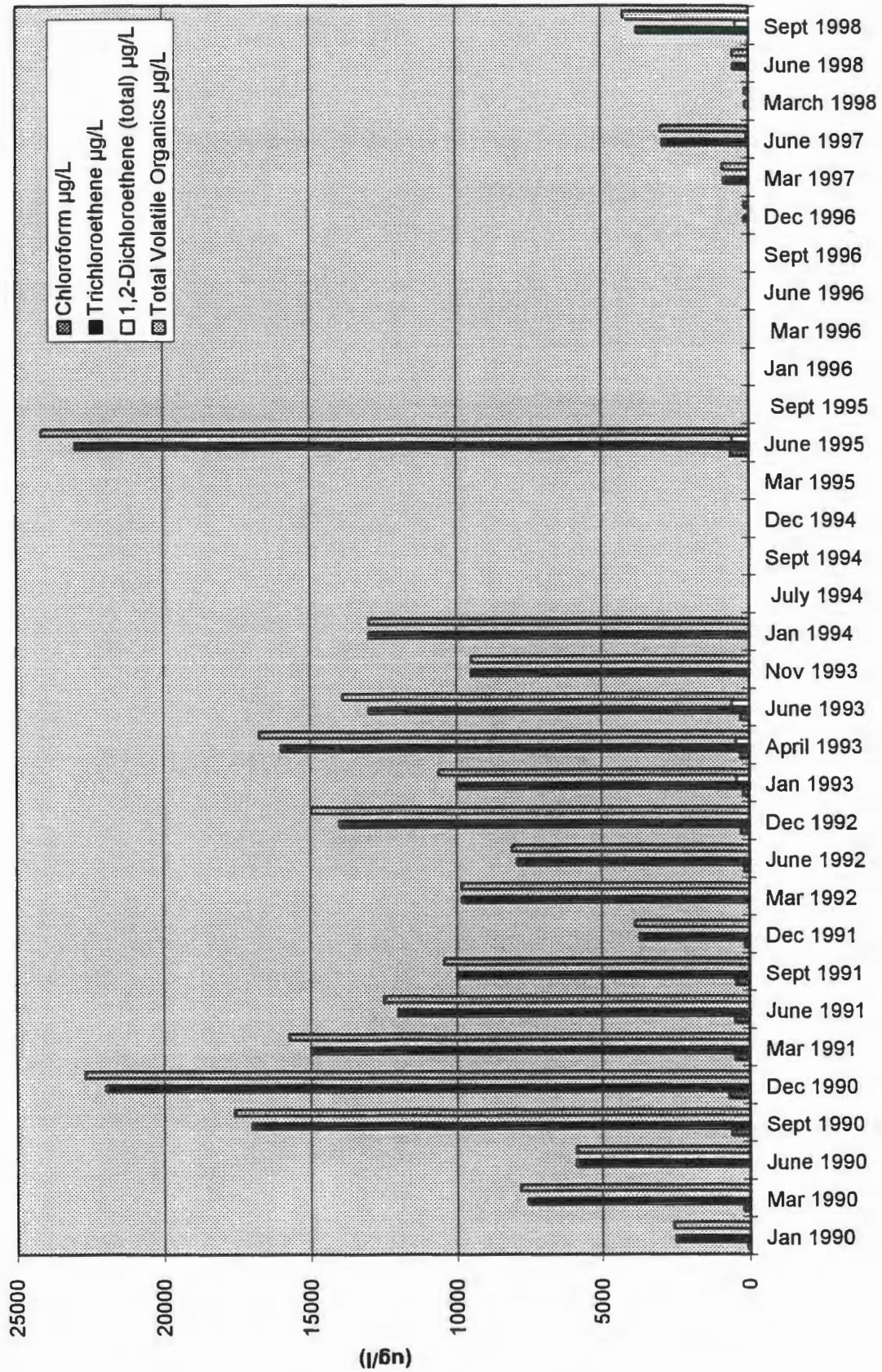
Parameters	Source: Units	NET	GTC	ES	ES	ES	PES	PES	PES	PES	PES	PES	
		June 1992 3	Dec 1992 4	Jan 1993 1	April 1993 2	June 1993 3	Nov 1993 4	Jan 1994 1	July 1994 2	Sept 1994 3	Dec 1994	Mar 1995 1	June 1995 2
METALS													
Aluminum	mg/l.	-	-	6.15	-	5550	-	-	-	-	-	-	
Antimony	mg/l.	-	-	ND	-	ND	-	-	-	-	-	-	
Arsenic	mg/l.	-	-	ND	-	1.8	-	-	-	-	-	-	
Barium	mg/l.	-	-	0.1	-	68.2	-	-	-	-	-	-	
Beryllium	mg/l.	-	-	0.0064	-	0.4	-	-	-	-	-	-	
Cadmium	mg/l.	-	-	ND	-	ND	-	-	-	-	-	-	
Calcium	mg/l.	-	-	264	-	267000	-	-	-	-	-	-	
Chromium	mg/l.	-	-	0.0067	-	7.8	-	-	-	-	-	-	
Cobalt	mg/l.	-	-	0.0088	-	4.6	-	-	-	-	-	-	
Copper	mg/l.	-	-	0.0127	-	5.8	-	-	-	-	-	-	
Iron	mg/l.	-	-	8.57	-	6550	-	-	-	-	-	-	
Lead	mg/l.	-	-	0.0094	-	4.1	-	-	-	-	-	-	
Magnesium	mg/l.	-	-	27	-	35700	-	-	-	-	-	-	
Manganese	mg/l.	-	-	1.08	-	288	-	-	-	-	-	-	
Mercury	mg/l.	-	-	ND	-	ND	-	-	-	-	-	-	
Nickel	mg/l.	-	-	0.0148	-	ND	-	-	-	-	-	-	
Potassium	mg/l.	-	-	2.18	-	4160	-	-	-	-	-	-	
Selenium	mg/l.	-	-	ND	-	ND	-	-	-	-	-	-	
Silver	mg/l.	-	-	ND	-	ND	-	-	-	-	-	-	
Sodium	mg/l.	-	-	24.2	-	137000	-	-	-	-	-	-	
Thallium	mg/l.	-	-	ND	-	ND	-	-	-	-	-	-	
Vanadium	mg/l.	-	-	0.0065	-	8.3	-	-	-	-	-	-	
Zinc	mg/l.	-	-	0.133	-	38.1	-	-	-	-	-	-	
Cyanide	mg/l.	-	-	ND	-	ND	-	-	-	-	-	-	
MISCELLANEOUS													
Ethene	mg/l.	-	-	-	-	-	-	-	-	-	-	-	
Ethane	mg/l.	-	-	-	-	-	-	-	-	-	-	-	
Methane	mg/l.	-	-	-	-	-	-	-	-	-	-	-	
CO2	mg/l.	-	-	-	-	-	-	-	-	-	-	-	
Ferrous Iron	mg/l.	-	-	-	-	-	-	-	-	-	-	-	
Sulfide	mg/l.	-	-	-	-	-	-	-	-	-	-	-	
DO ₂	mg C/L	-	-	-	-	-	-	-	-	-	-	-	
Redox Potential	mV	-	-	-	-	-	-	-	-	-	-	-	
Alkalinity (total)	mg CaCO ₃ /L	-	-	-	-	-	-	-	-	-	-	-	
Total Organic Halogens/Halides (TOX)	mg/l.	-	-	0.31	0.05	2.1	0.06	0.09	-	-	-	-	
Chloride	mg/l.	-	-	13.9	5	170	ND	7	-	-	-	-	
Conductivity (field)	µmhos/cm	970	-	925	-	1580	-	-	-	-	-	-	
Conductivity (lab)	µmhos/cm	-	-	938	770	1700	960	860	-	-	-	-	
Nitric Nitrogen	mg/l.	-	-	0.008	ND	-	-	-	-	-	-	-	
Nitrate/Nitrite Nitrogen	mg/l.	-	-	0.01	ND	ND	1.1	1.1	-	-	-	-	
Nitrate as N - Calculated	mg/l.	-	-	ND	-	-	-	-	-	-	-	-	
pH (field)	std. units	-	-	7.16	6.89	6.98	7.06	7.08	-	-	-	-	
pH (lab)	std. units	7.06	-	6.87	-	7.16	-	-	-	-	-	-	
Sulfate	mg/l.	-	-	210	110	340	170	140	-	-	-	-	
Total Organic Carbon (TOC)	mg/l.	-	-	3	2	4	2	1	-	-	-	-	
Temperature (field)	Celsius	12	-	7	-	13.3	-	-	-	-	-	-	
Turbidity	NTUs	-	-	90	-	-	-	-	-	-	-	-	

PI-12
Ash Landfill

Parameters	Source: Units	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES
		Sept 1995 3	Jan 1996 4	Mar 1996 1	June 1996 2	Sept 1996 3	Dec 1996 4	Mar 1997 1	June 1997 2	Mar 1998 1	Jun 1998 2	Sept 1998 3
MEALS												
Aluminum	mg/l.	-	-	-	-	-	-	-	-	-	-	-
Antimony	mg/l.	-	-	-	-	-	-	-	-	-	-	-
Arsenic	mg/l.	-	-	-	-	-	-	-	-	-	-	-
Barium	mg/l.	-	-	-	-	-	-	-	-	-	-	-
Beryllium	mg/l.	-	-	-	-	-	-	-	-	-	-	-
Cadmium	mg/l.	-	-	-	-	-	-	-	-	-	-	-
Calcium	mg/l.	-	-	-	-	-	-	-	-	-	-	-
Chromium	mg/l.	-	-	-	-	-	-	-	-	-	-	-
Cobalt	mg/l.	-	-	-	-	-	-	-	-	-	-	-
Copper	mg/l.	-	-	-	-	-	-	-	-	-	-	-
Iron	mg/l.	-	-	-	-	-	-	-	-	-	-	-
Lead	mg/l.	-	-	-	-	-	-	-	-	-	-	-
Magnesium	mg/l.	-	-	-	-	-	-	-	-	-	-	-
Manganese	mg/l.	-	-	-	-	-	-	-	-	-	-	-
Mercury	mg/l.	-	-	-	-	-	-	-	-	-	-	-
Nickel	mg/l.	-	-	-	-	-	-	-	-	-	-	-
Potassium	mg/l.	-	-	-	-	-	-	-	-	-	-	-
Selenium	mg/l.	-	-	-	-	-	-	-	-	-	-	-
Silver	mg/l.	-	-	-	-	-	-	-	-	-	-	-
Sodium	mg/l.	-	-	-	-	-	-	-	-	-	-	-
Thallium	mg/l.	-	-	-	-	-	-	-	-	-	-	-
Vanadium	mg/l.	-	-	-	-	-	-	-	-	-	-	-
Zinc	mg/l.	-	-	-	-	-	-	-	-	-	-	-
Cyanide	mg/l.	-	-	-	-	-	-	-	-	-	-	-
MISCELLANEOUS												
Ethane	mg/l.	-	-	-	-	-	<0.0005	<0.0005	<0.0013	<0.0025	<0.0025	<0.0025
Ethane	mg/l.	-	-	-	-	-	<0.0005	<0.0005	<0.0021	<0.0021	<0.0021	<0.0021
Methane	mg/l.	-	-	-	-	-	0.0072	0.0051	0.027	0.0032	0.011	0.0089
CO2	mg/l.	-	-	-	-	-	-	-	-	-	-	-
Ferrous Iron	mg/l.	-	-	-	-	-	0.14	0.07	0.52	0.04	0.03	0.46
Sulfide	mg/l.	-	-	-	-	-	-	-	-	-	-	-
DOC	mg C/L	-	-	-	-	-	2.4	2.2	2.9	2.4	2.4	7.3
Redox Potential	mV	-	-	-	-	-	401	409	323	423	376	270
Alkalinity (total)	mg CaCO3/l	-	-	-	-	-	396	370	344	334	318	356
Total Organic Halogens/Halides (TOX)	mg/l.	-	-	-	-	-	-	-	-	-	-	-
Chloride	mg/l.	-	-	-	-	-	-	-	-	-	-	-
Conductivity (field)	µmhos/cm	-	-	-	-	-	1630	1670	1650	1530	1620	1530
Conductivity (lab)	µmhos/cm	-	-	-	-	-	-	-	-	-	-	-
Nitrite Nitrogen	mg/l.	-	-	-	-	-	-	-	-	-	-	-
Nitrate/Nitrite Nitrogen	mg/l.	-	-	-	-	-	0.12	0.1	0.05	0.18	0.07	0.03
Nitrate as N - Calculated	mg/l.	-	-	-	-	-	-	-	-	-	-	-
pH (field)	std. units	-	-	-	-	-	6.51	6.68	6.63	6.69	-	-
pH (lab)	std. units	-	-	-	-	-	-	-	-	-	6.78	6.57
Sulfate	mg/l.	-	-	-	-	-	427	440	456	458	144	358
Total Organic Carbon (TOC)	mg/l.	-	-	-	-	-	-	-	-	-	-	-
Temperature (field)	Celsius	-	-	-	-	-	-	-	-	-	-	-
Turbidity	NTUs	-	-	-	-	-	-	-	-	-	-	-

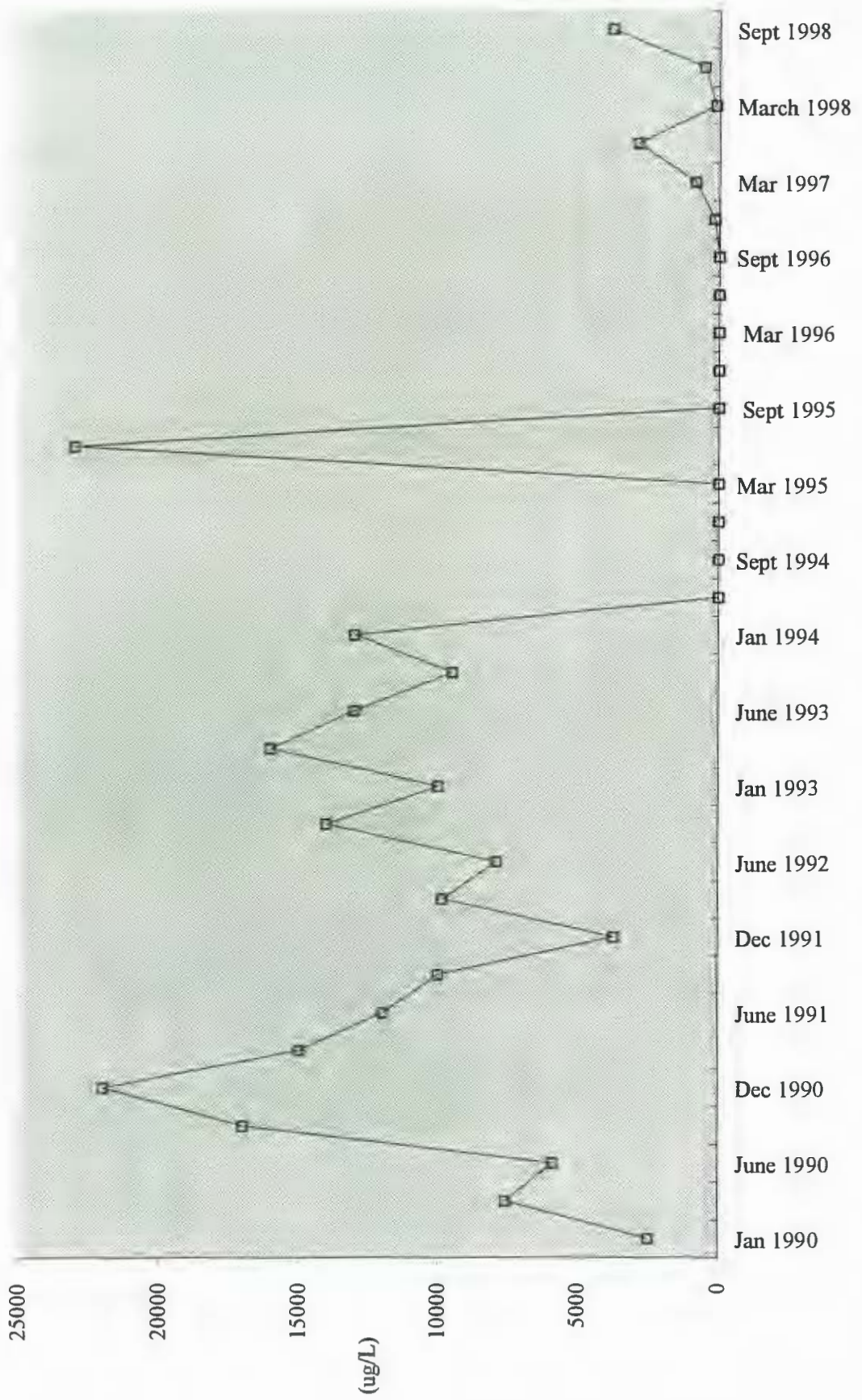
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PT-18



Note: Well was not sampled July 1994-Mar 1995 and Sept 1995-Sept 1996

Trichloroethylene in Well PT-18



PT-18
Ash Landfill

Parameters	Source: Units	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	GTC
		Jan 1990 1	Mar 1990 1	June 1990 2	Sept 1990 3	Dec 1990 4	Mar 1991 1	June 1991 2	Sept 1991 3	Dec 1991 4	Mar 1992 2	June 1992 3	Dec 1992 4
VOLATILE ORGANICS		624	624	624	624	624	624	624	624	624	624	624	624
Chloromethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10
Chloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	1.7	ND	ND	ND
1,1-Dichloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	µg/L	86	230	ND	610	700	490	490	457	157	11.7	175	270
1,2-Dichloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	µg/L	2500	7600	5900	17000	22000	15000	12000	10000	3710	9840	7920	14000
Dibromochloromethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	µg/L	ND	ND	ND	ND	ND	ND	ND	2.58	ND	ND	ND	ND
trans-1,3-Dichloropropene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	µg/L	ND	ND	ND	ND	ND	250	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl Ether	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
1,2-Dichlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
1,4-Dichlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
1,2-Dichloroethene (total)	µg/L	-	-	-	-	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	-	-	-	-	-	700
trans-1,2-Dichloroethene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	3	ND	ND	ND
Trichlorofluoromethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	µg/L	-	-	-	-	-	-	-	-	-	-	-	-
Carbon Disulfide	µg/L	-	-	-	-	-	-	-	-	-	-	-	-
4-Methyl-2-Pentanone	µg/L	-	-	-	-	-	-	-	-	-	-	-	-
2-Hexanone	µg/L	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-
Xylenes (total)	µg/L	-	-	-	-	-	-	-	-	-	-	-	-
Total Volatile Organics	µg/L	2586	7830	5900	17610	22700	15740	12490	10459.58	3871.7	9851.7	8095	14980

PT-18
Ash Landfill

Parameters	Source: Units	ES	ES	ES	PES	PES	PES	PES	PES	PES	PES	PES	PES
		Jan 1993 1	April 1993 2	June 1993 3	Nov 1993 4	Jan 1994 1	July 1994 2	Sept 1994 3	Dec 1994 4	Mar 1995 1	June 1995 2	Sept 1995 3	Jan 1996 4
VOLATILE ORGANICS		NYSCLP	NYSCLP	NYSCLP	NYSCLP	NYSCLP						NYSCLP	
Chloromethane	µg/L	ND	ND	ND	ND	ND	-	-	-	-	-	ND	-
Bromomethane	µg/L	ND	ND	ND	ND	ND	-	-	-	-	-	ND	-
Vinyl Chloride	µg/L	ND	ND	ND	ND	ND	-	-	-	-	-	ND	-
Chloroethane	µg/L	ND	ND	ND	ND	ND	-	-	-	-	-	ND	-
Methylene Chloride	µg/L	ND	ND	ND	ND	ND	-	-	-	-	-	ND	-
1,1-Dichloroethene	µg/L	ND	ND	ND	ND	ND	-	-	-	-	-	ND	-
1,1-Dichloroethane	µg/L	ND	ND	ND	ND	ND	-	-	-	-	-	ND	-
Chloroform	µg/L	200	300	300	ND	ND	-	-	-	-	-	600	-
1,2-Dichloroethane	µg/L	ND	ND	ND	ND	ND	-	-	-	-	-	ND	-
1,1,1-Trichloroethane	µg/L	ND	ND	ND	ND	ND	-	-	-	-	-	ND	-
Carbon Tetrachloride	µg/L	ND	ND	ND	ND	ND	-	-	-	-	-	ND	-
Bromodichloromethane	µg/L	ND	ND	ND	ND	ND	-	-	-	-	-	ND	-
1,2-Dichloropropane	µg/L	ND	ND	ND	ND	ND	-	-	-	-	-	ND	-
cis-1,3-Dichloropropene	µg/L	ND	ND	ND	ND	ND	-	-	-	-	-	ND	-
Trichloroethene	µg/L	10000	16000	13000	9500	13000	-	-	-	-	-	23000	-
Dibromochloromethane	µg/L	ND	ND	ND	ND	ND	-	-	-	-	-	ND	-
1,1,2-Trichloroethane	µg/L	ND	ND	ND	ND	ND	-	-	-	-	-	ND	-
Benzene	µg/L	ND	ND	ND	ND	ND	-	-	-	-	-	ND	-
trans-1,3-Dichloropropene	µg/L	ND	ND	ND	ND	ND	-	-	-	-	-	ND	-
Bromoform	µg/L	ND	ND	ND	ND	ND	-	-	-	-	-	ND	-
Tetrachloroethene	µg/L	ND	ND	ND	ND	ND	-	-	-	-	-	ND	-
1,1,2,2-Tetrachloroethane	µg/L	ND	ND	ND	ND	ND	-	-	-	-	-	ND	-
Toluene	µg/L	ND	ND	ND	ND	ND	-	-	-	-	-	ND	-
Chlorobenzene	µg/L	ND	ND	ND	ND	ND	-	-	-	-	-	ND	-
Ethylbenzene	µg/L	ND	ND	ND	ND	ND	-	-	-	-	-	ND	-
2-Chloroethylvinyl Ether	µg/L	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichlorobenzene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichlorobenzene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethene (total)	µg/L	440	450	590	ND	ND	-	-	-	-	-	550	-
cis-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorofluoromethane	µg/L	-	-	-	-	-	-	-	-	-	-	-	-
Acetone	µg/L	ND	ND	ND	ND	ND	-	-	-	-	-	ND	-
Carbon Disulfide	µg/L	ND	ND	ND	ND	ND	-	-	-	-	-	ND	-
4-Methyl-2-Pentanone	µg/L	ND	ND	ND	ND	ND	-	-	-	-	-	ND	-
2-Hexanone	µg/L	ND	ND	ND	ND	ND	-	-	-	-	-	ND	-
Styrene	µg/L	ND	ND	ND	ND	ND	-	-	-	-	-	ND	-
Xylenes (total)	µg/L	ND	ND	ND	ND	ND	-	-	-	-	-	ND	-
Total Volatile Organics	µg/L	10640	16750	13890	9500	13000	0	0	0	0	0	24150	0

PT-18
Ash Landfill

Parameters	Source: Units	PES	PES	PES	PES	PES	PES	PES	PES	PES
		Mar 1996	June 1996	Sept 1996	Dec 1996	Mar 1997	June 1997	March 1998	June 1998	Sept 1998
		1	2	3	4	1	2	1	2	3
VOLATILE ORGANICS										
Chloromethane	µg/L	-	-	-	ND	ND	ND	ND	ND	ND
Bromomethane	µg/L	-	-	-	ND	ND	ND	ND	ND	ND
Vinyl Chloride	µg/L	-	-	-	ND	ND	ND	ND	ND	ND
Chloroethane	µg/L	-	-	-	ND	ND	ND	ND	ND	ND
Methylene Chloride	µg/L	-	-	-	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	µg/L	-	-	-	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	µg/L	-	-	-	ND	ND	ND	ND	ND	ND
Chloroform	µg/L	-	-	-	ND	ND	ND	2	14	14
1,2-Dichloroethane	µg/L	-	-	-	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	µg/L	-	-	-	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	µg/L	-	-	-	ND	ND	ND	ND	ND	ND
Bromodichloromethane	µg/L	-	-	-	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	µg/L	-	-	-	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	µg/L	-	-	-	ND	ND	ND	ND	ND	ND
Trichloroethene	µg/L	-	-	-	160	840	2900	130	520	3800
Dibromochloromethane	µg/L	-	-	-	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	µg/L	-	-	-	ND	ND	ND	ND	ND	ND
Benzene	µg/L	-	-	-	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	µg/L	-	-	-	ND	ND	ND	ND	ND	ND
Bromoform	µg/L	-	-	-	ND	ND	ND	ND	ND	ND
Tetrachloroethene	µg/L	-	-	-	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	µg/L	-	-	-	ND	ND	ND	ND	ND	ND
Toluene	µg/L	-	-	-	ND	ND	ND	ND	ND	ND
Chlorobenzene	µg/L	-	-	-	ND	ND	ND	ND	ND	ND
Ethylbenzene	µg/L	-	-	-	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl Ether	µg/L	-	-	-	-	-	-	-	-	-
1,3-Dichlorobenzene	µg/L	-	-	-	-	-	-	-	-	-
1,2-Dichlorobenzene	µg/L	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	µg/L	-	-	-	-	-	-	-	-	-
1,2-Dichloroethene (total)	µg/L	-	-	-	ND	22	69	3	ND	450
cis-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	-	-	-
Trichlorofluoromethane	µg/L	-	-	-	-	-	-	-	-	-
Acetone	µg/L	-	-	-	ND	ND	ND	ND	ND	ND
Carbon Disulfide	µg/L	-	-	-	ND	ND	ND	ND	ND	ND
4-Methyl-2-Pentanone	µg/L	-	-	-	ND	ND	ND	ND	ND	ND
2-Hexanone	µg/L	-	-	-	ND	ND	ND	ND	ND	ND
Styrene	µg/L	-	-	-	ND	ND	ND	ND	ND	ND
Xylenes (total)	µg/L	-	-	-	ND	ND	ND	ND	ND	ND
Total Volatile Organics	µg/L	0	0	0	160	862	2969	135	534	4264

PT-18
Ash Landfill

Parameters	Source: Units	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	GTC
		Jan 1990 1	Mar 1990 1	June 1990 2	Sept 1990 3	Dec 1990 4	Mar 1991 1	June 1991 2	Sept 1991 3	Dec 1991 4	Mar 1992 2	June 1992 3	Dec 1992 4
METALS													
Aluminum	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Antimony	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	mg/L	-	ND	-	ND	-	ND	-	ND	-	ND	-	-
Barium	mg/L	-	ND	-	ND	-	0.054	-	0.043	-	0.07	-	-
Beryllium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	mg/L	-	ND	-	ND	-	ND	-	ND	-	ND	-	-
Calcium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	mg/L	-	0.003	-	ND	-	ND	-	ND	-	ND	-	-
Cobalt	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Copper	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Iron	mg/L	-	2	-	8.5	-	3.89	-	1.38	-	8.14	-	-
Lead	mg/L	-	ND	-	ND	-	ND	-	ND	-	ND	-	-
Magnesium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	mg/L	-	ND	-	ND	-	ND	-	ND	-	ND	-	-
Nickel	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Potassium	mg/L	-	ND	-	5.1	-	2.77	-	2.31	-	2.79	-	-
Selenium	mg/L	-	ND	-	ND	-	ND	-	ND	-	ND	-	-
Silver	mg/L	-	ND	-	ND	-	ND	-	ND	-	ND	-	-
Sodium	mg/L	-	86	-	99	-	102	-	107	-	95.5	-	-
Thallium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
CELLANEIOUS COMPOUNDS													
Ethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Ethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Methane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
CO2	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Ferrous Iron	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Sulfide	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
DOC	mg C/L	-	-	-	-	-	-	-	-	-	-	-	-
Redox Potential	mV	-	-	-	-	-	-	-	-	-	-	-	-
Alkalinity (total)	g CaCO	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Halogens/Halid	mg/L	-	0.333	-	-	1.88	1.7	-	4.422	-	4.52	-	-
Chloride	mg/L	-	72	-	75.2	-	76.8	-	66.8	-	52.6	-	-
Conductivity (field)	uhos/c	670	680	1800	1600	1400	1300	1650	1710	2100	1788	1370	-
Conductivity (lab)	uhos/c	-	-	-	-	-	-	-	-	-	1548	-	-
Nitrite Nitrogen	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Nitrate as N	mg/L	-	ND	-	ND	-	ND	-	ND	-	ND	-	-
Nitrate as N - Calculation	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
pH (Lab)	std. unit	-	6.9	-	6.9	-	6.9	-	7.5	-	7	-	-
pH (field)	std. unit	6.7	6.8	6.89	7	6.5	7.32	6.54	6.69	6.86	6.38	6.88	-
Sulfate	mg/L	-	340	-	245	-	287.5	-	230	-	351	-	-
Total Organic Carbon (TOC)	mg/L	-	32	-	12	-	14.6	-	11.4	-	4	-	-
Temperature (field)	Celsius	8	5	15	14	10	8	13	15	9	6	11	-
Nephelometric Turbidity Unit	NTUs	8	5	15	14	10	8	13	15	9	-	-	-

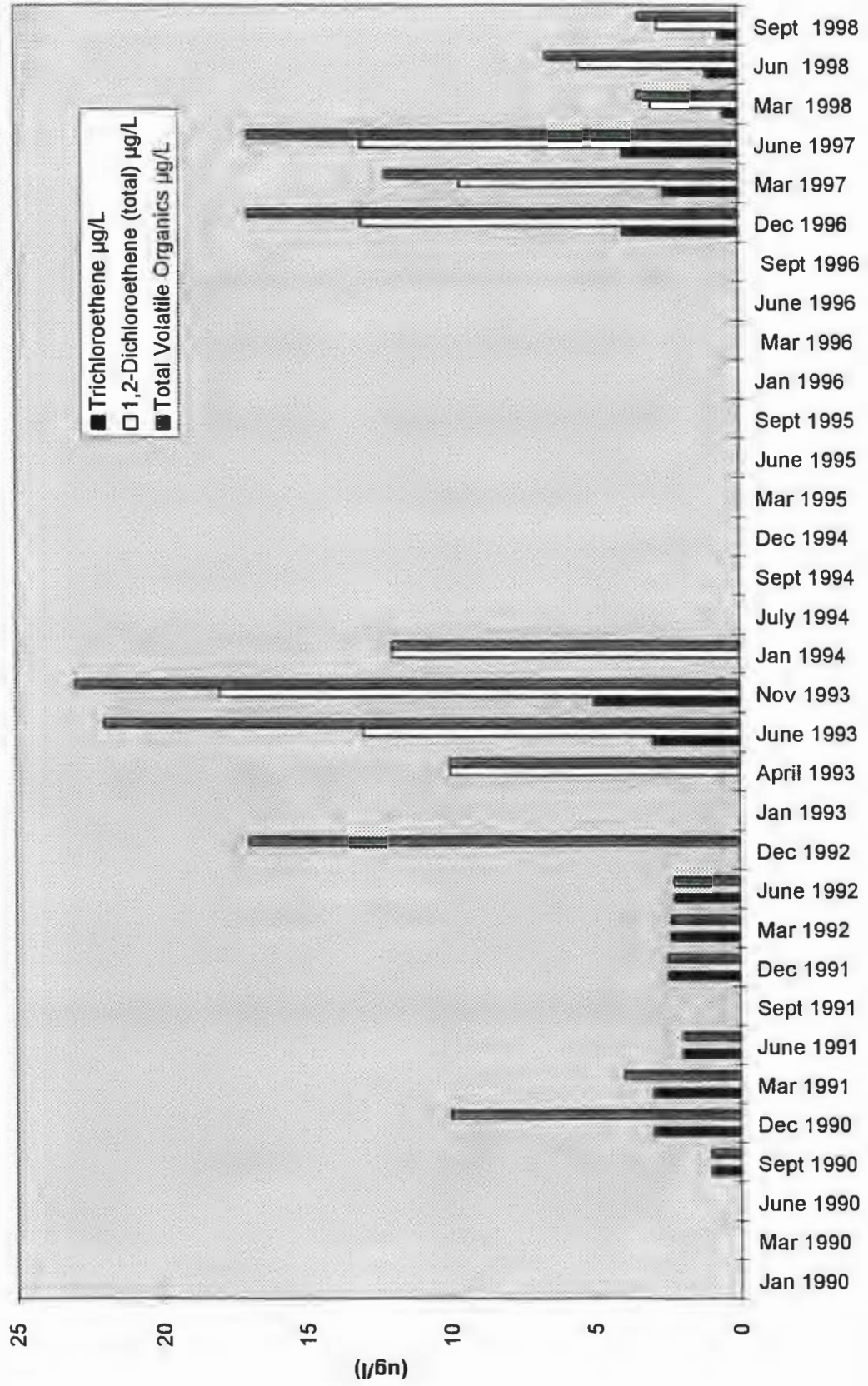
PT-18
Ash Landfill

Parameters	Source: Units	ES	ES	ES	PES	PES	PES	PES	PES	PES	PES	PES	PES
		Jan 1993 1	April 1993 2	June 1993 3	Nov 1993 4	Jan 1994 1	July 1994 2	Sept 1994 3	Dec 1994 4	Mar 1995 1	June 1995 2	Sept 1995 3	Jan 1996 4
METALS													
Aluminum	mg/L	11.3	-	588	-	-	-	-	-	-	-	-	-
Antimony	mg/L	ND	-	ND	-	-	-	-	-	-	-	-	-
Arsenic	mg/L	ND	-	1.3	-	-	-	-	-	-	-	-	-
Barium	mg/L	0.123	-	42.2	-	-	-	-	-	-	-	-	-
Beryllium	mg/l.	0.00079	-	0.49	-	-	-	-	-	-	-	-	-
Cadmium	mg/L	ND	-	ND	-	-	-	-	-	-	-	-	-
Calcium	mg/L	223	-	216000	-	-	-	-	-	-	-	-	-
Chromium	mg/L	0.0127	-	ND	-	-	-	-	-	-	-	-	-
Cobalt	mg/L	ND	-	ND	-	-	-	-	-	-	-	-	-
Copper	ug/L	0.0246	-	3.7	-	-	-	-	-	-	-	-	-
Iron	mg/L	14	-	825	-	-	-	-	-	-	-	-	-
Lead	mg/L	0.0166	-	2.2	-	-	-	-	-	-	-	-	-
Magnesium	mg/L	30.3	-	26500	-	-	-	-	-	-	-	-	-
Manganese	mg/L	1.02	-	812	-	-	-	-	-	-	-	-	-
Mercury	mg/L	0.00036	-	ND	-	-	-	-	-	-	-	-	-
Nickel	mg/L	0.0185	-	ND	-	-	-	-	-	-	-	-	-
Potassium	mg/L	3.54	-	2200	-	-	-	-	-	-	-	-	-
Selenium	mg/L	ND	-	ND	-	-	-	-	-	-	-	-	-
Silver	mg/L	ND	-	ND	-	-	-	-	-	-	-	-	-
Sodium	mg/L	100	-	101000	-	-	-	-	-	-	-	-	-
Thallium	mg/L	ND	-	ND	-	-	-	-	-	-	-	-	-
Vanadium	mg/L	0.013	-	ND	-	-	-	-	-	-	-	-	-
Zinc	mg/L	0.511	-	47.9	-	-	-	-	-	-	-	-	-
Cyanide	mg/L	ND	-	ND	-	-	-	-	-	-	-	-	-
CELLANEOUS COMPOUNDS													
Ethene	mg/L	-	-	-	-	-	-	-	-	-	ND	-	-
Ethane	mg/L	-	-	-	-	-	-	-	-	-	ND	-	-
Methane	mg/L	-	-	-	-	-	-	-	-	-	0.424	-	-
CO2	mg/L	-	-	-	-	-	-	-	-	-	629	-	-
Ferrous Iron	mg/l.	-	-	-	-	-	-	-	-	-	0.01	-	-
Sulfide	mg/L	-	-	-	-	-	-	-	-	-	ND	-	-
DOC	mg C/L	-	-	-	-	-	-	-	-	-	6.1	-	-
Redox Potential	mv	-	-	-	-	-	-	-	-	-	-	-	-
Alkalinity (total)	g CaCO	-	-	-	1.5	6	-	-	-	-	548	-	-
Total Organic Halogens/Halid	mg/L	4.5	12	6.2	36	64	-	-	-	-	-	-	-
Chloride	mg/L	57	59	65	-	-	-	-	-	-	57.7	-	-
Conductivity (field)	uhos/c	975	900	1100	1400	1300	-	-	-	-	-	-	-
Conductivity (Lab)	uhos/c	1440	1300	1400	-	-	-	-	-	-	1450	-	-
Nitrite Nitrogen	mg/L	ND	-	-	0.1	nd	-	-	-	-	ND	-	-
Nitrate as N	mg/L	0.01	ND	ND	-	-	-	-	-	-	ND	-	-
Nitrate as N - Calculation	mg/L	0.01	-	-	6.91	6.93	-	-	-	-	-	-	-
pH (Lab)	std. unit	7.08	7.11	6.89	-	-	-	-	-	-	6.87	-	-
pH (field)	std. unit	6.89	6.89	7.05	240	250	-	-	-	-	-	-	-
Sulfate	mg/L	280	200	220	6	4	-	-	-	-	231	-	-
Total Organic Carbon (TOC)	mg/L	4	5	5	-	-	-	-	-	-	-	-	-
Temperature (field)	Celsius	7.25	5	12.7	-	-	-	-	-	-	-	-	-
Nephelometric Turbidity Unit	NTUs	>200	46.9	-	-	-	-	-	-	-	-	-	-

PT-18
Ash Landfill

Parameters	Source: Units	PES	PES	PES	PES	PES	PES	PES	PES	
		Mar 1996	June 1996	Sept 1996	Dec 1996	Mar 1997	June 1997	March 199	June 1998	Sept 1998
		1	2	3	4	1	2	1	2	3
METALS										
Aluminum	mg/L	-	-	-	-	-	-	31.2		
Antimony	mg/L	-	-	-	-	-	-	ND		
Arsenic	mg/L	-	-	-	-	-	-	ND		
Barium	mg/L	-	-	-	-	-	-	39.6		
Beryllium	mg/L	-	-	-	-	-	-	ND		
Cadmium	mg/L	-	-	-	ND	ND	ND	ND	ND	ND
Calcium	mg/L	-	-	-	-	-	-	161000	-	-
Chromium	mg/L	-	-	-	ND	ND	ND	2.4	ND	ND
Cobalt	mg/L	-	-	-	-	-	-	ND	-	-
Copper	mg/L	-	-	-	-	-	-	8.3	-	-
Iron	mg/L	-	-	-	-	-	-	186	-	-
Lead	mg/L	-	-	-	ND	ND	ND	ND	ND	ND
Magnesium	mg/L	-	-	-	-	-	-	21900	-	-
Manganese	mg/L	-	-	-	347	112	473	7.7		320
Mercury	mg/L	-	-	-	-	-	-	ND	-	-
Nickel	mg/L	-	-	-	6.2	4.2	3.6	ND		ND
Potassium	mg/L	-	-	-	-	-	-	4120		
Selenium	mg/L	-	-	-	-	-	-	ND		
Silver	mg/L	-	-	-	-	-	-	ND		
Sodium	mg/L	-	-	-	-	-	-	20300		
Thallium	mg/L	-	-	-	-	-	-	ND		
Vanadium	mg/L	-	-	-	-	-	-	ND		
Zinc	mg/L	-	-	-	-	-	-	741		
Cyanide	mg/L	-	-	-	-	-	-	ND		
CELLANEOUS COMPOUNDS										
Ethene	mg/L	-	-	-	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
Ethane	mg/L	-	-	-	<0.0021	<0.0021	<0.0021	<0.0021	<0.0021	<0.0021
Methane	mg/L	-	-	-	0.311	0.02	0.17	0.058	0.038	0.13
CO2	mg/L	-	-	-	-	-	-	-	-	-
Ferrous Iron	mg/L	-	-	-	0	0.01	0.15	0.01	0.04	0.51
Sulfide	mg/L	-	-	-	-	-	-	-	-	-
DOC	mg C/L	-	-	-	5.4	4.5	5.5	4.3	4.9	4.7
Redox Potential	mV	-	-	-	315	353	283	343	324	50
Alkalinity (total)	g CaCO	-	-	-	532	504	516	368	440	250
Total Organic Halogens/Halid	mg/L	-	-	-	-	-	-	-	-	-
Chloride	mg/L	-	-	-	25.9	22.6	23.2	10.9	12	123
Conductivity (field)	micro/c	-	-	-	1175	1081	1173	1173	1125	1267
Conductivity (lab)	micro/c	-	-	-	-	-	-	-	-	-
Nitrite Nitrogen	mg/L	-	-	-	-	-	-	-	-	-
Nitrate as N	mg/L	-	-	-	0.01	0.07	0.05	0.14	0.13	0.19
Nitrate as N - Calculation	mg/L	-	-	-	-	-	-	-	-	-
pH (Lab)	std. unit	-	-	-	-	-	-	-	-	-
pH (field)	std. unit	-	-	-	6.41	6.42	6.48	6.56	6.64	6.59
Sulfate	mg/L	-	-	-	191	154	196	140	170	195
Total Organic Carbon (TOC)	mg/L	-	-	-	-	-	-	-	-	-
Temperature (field)	Celsius	-	-	-	-	-	-	-	-	-
Nephelometric Turbidity Unit	NTUs	-	-	-	-	-	-	-	-	-

PT-21A



Note: Well was not sampled Jan 1993 and July 1994-Sept 1996

PT-21A
Ash Landfill

Parameters	Source: Units	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	GTC
		Jan 1990 1	Mar 1990 1	June 1990 2	Sept 1990 3	Dec 1990 4	Mar 1991 1	June 1991 2	Sept 1991 3	Dec 1991 4	Mar 1992 2	June 1992 3	Dec 1992 4	
VOLATILE ORGANICS		624	624	624	624	624	624	624	624	624	624	624	624	624
Chloromethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	µg/L	ND	ND	ND	ND	ND	1	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	µg/L	ND	ND	ND	ND	2	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	µg/L	ND	ND	ND	1	3	3	2	ND	2.5	2.4	2.3	ND	
Dibromochloromethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	µg/L	ND	ND	ND	ND	5	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl Ether	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene (total)	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	17
trans-1,2-Dichloroethene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon Disulfide	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Methyl-2-Pentanone	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Hexanone	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylenes (total)	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Volatile Organics	µg/L	0	0	0	1	10	4	2	0	2.5	2.4	2.3	17	

PT-21A
Ash Landfill

Parameters	Source: Units	ES	ES	ES	PES	PES	PES	PES	PES	PES	PES	PES	PES
		Jan 1993 1	April 1993 2	June 1993 3	Nov 1993 4	Jan 1994 1	July 1994 2	Sept 1994 3	Dec 1994 4	Mar 1995 1	June 1995 2	Sept 1995 3	Jan 1996 4
VOLATILE ORGANICS		NYSCLP		NYSCLP	NYSCLP	NYSCLP							
Chloromethane	µg/L	-	ND	ND	ND	ND	-	-	-	-	-	-	-
Bromomethane	µg/L	-	ND	ND	ND	ND	-	-	-	-	-	-	-
Vinyl Chloride	µg/L	-	ND	ND	ND	ND	-	-	-	-	-	-	-
Chloroethane	µg/L	-	ND	ND	ND	ND	-	-	-	-	-	-	-
Methylene Chloride	µg/L	-	ND	ND	ND	ND	-	-	-	-	-	-	-
1,1-Dichloroethene	µg/L	-	ND	ND	ND	ND	-	-	-	-	-	-	-
1,1-Dichloroethane	µg/L	-	ND	ND	ND	ND	-	-	-	-	-	-	-
Chloroform	µg/L	-	ND	ND	ND	ND	-	-	-	-	-	-	-
1,2-Dichloroethane	µg/L	-	ND	ND	ND	ND	-	-	-	-	-	-	-
1,1,1-Trichloroethane	µg/L	-	ND	ND	ND	ND	-	-	-	-	-	-	-
Carbon Tetrachloride	µg/L	-	ND	ND	ND	ND	-	-	-	-	-	-	-
Bromodichloromethane	µg/L	-	ND	ND	ND	ND	-	-	-	-	-	-	-
1,2-Dichloropropane	µg/L	-	ND	ND	ND	ND	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	µg/L	-	ND	ND	ND	ND	-	-	-	-	-	-	-
Trichloroethene	µg/L	-	ND	3	5	ND	-	-	-	-	-	-	-
Dibromochloromethane	µg/L	-	ND	ND	ND	ND	-	-	-	-	-	-	-
1,1,2-Trichloroethane	µg/L	-	ND	ND	ND	ND	-	-	-	-	-	-	-
Benzene	µg/L	-	ND	6	ND	ND	-	-	-	-	-	-	-
trans-1,3-Dichloropropene	µg/L	-	ND	ND	ND	ND	-	-	-	-	-	-	-
Bromoform	µg/L	-	ND	ND	ND	ND	-	-	-	-	-	-	-
Tetrachloroethene	µg/L	-	ND	ND	ND	ND	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	µg/L	-	ND	ND	ND	ND	-	-	-	-	-	-	-
Toluene	µg/L	-	ND	ND	ND	ND	-	-	-	-	-	-	-
Chlorobenzene	µg/L	-	ND	ND	ND	ND	-	-	-	-	-	-	-
Ethylbenzene	µg/L	-	ND	ND	ND	ND	-	-	-	-	-	-	-
2-Chloroethylvinyl Ether	µg/L	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichlorobenzene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichlorobenzene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethene (total)	µg/L	-	10	13	18	12	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorofluoromethane	µg/L	-	-	-	-	-	-	-	-	-	-	-	-
Acetone	µg/L	-	ND	ND	ND	ND	-	-	-	-	-	-	-
Carbon Disulfide	µg/L	-	ND	ND	ND	ND	-	-	-	-	-	-	-
4-Methyl-2-Pentanone	µg/L	-	ND	ND	ND	ND	-	-	-	-	-	-	-
2-Hexanone	µg/L	-	ND	ND	ND	ND	-	-	-	-	-	-	-
Styrene	µg/L	-	ND	ND	ND	ND	-	-	-	-	-	-	-
Xylenes (total)	µg/L	-	ND	ND	ND	ND	-	-	-	-	-	-	-
Total Volatile Organics	µg/L	0	10	22	23	12	0	0	0	0	0	0	0

FT-21A
Ash Landfill

Parameters	Source: Units	PES	PES	PES	PES	PES	PES	PES	PES	PES
		Mar 1996 1	June 1996 2	Sept 1996 3	Dec 1996 4	Mar 1997 1	June 1997 2	Mar 1998 1	Jun 1998 2	Sept 1998 3
VOLATILE ORGANICS										
Chloromethane	µg/L	-	-	-	ND	ND	ND	ND	ND	ND
Bromomethane	µg/L	-	-	-	ND	ND	ND	ND	ND	ND
Vinyl Chloride	µg/L	-	-	-	ND	ND	ND	ND	ND	ND
Chloroethane	µg/L	-	-	-	ND	ND	ND	ND	ND	ND
Methylene Chloride	µg/L	-	-	-	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	µg/L	-	-	-	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	µg/L	-	-	-	ND	ND	ND	ND	ND	ND
Chloroform	µg/L	-	-	-	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	µg/L	-	-	-	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	µg/L	-	-	-	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	µg/L	-	-	-	ND	ND	ND	ND	ND	ND
Bromodichloromethane	µg/L	-	-	-	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	µg/L	-	-	-	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	µg/L	-	-	-	ND	ND	ND	ND	ND	ND
Trichloroethene	µg/L	-	-	-	4	2.6	4	0.5	1.1	0.67
Dibromochloromethane	µg/L	-	-	-	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	µg/L	-	-	-	ND	ND	ND	ND	ND	ND
Benzene	µg/L	-	-	-	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	µg/L	-	-	-	ND	ND	ND	ND	ND	ND
Bromoform	µg/L	-	-	-	ND	ND	ND	ND	ND	ND
Tetrachloroethene	µg/L	-	-	-	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	µg/L	-	-	-	ND	ND	ND	ND	ND	ND
Toluene	µg/L	-	-	-	ND	ND	ND	ND	ND	ND
Chlorobenzene	µg/L	-	-	-	ND	ND	ND	ND	ND	ND
Ethylbenzene	µg/L	-	-	-	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl Ether	µg/L	-	-	-	-	-	-	-	-	-
1,3-Dichlorobenzene	µg/L	-	-	-	-	-	-	-	-	-
1,2-Dichlorobenzene	µg/L	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	µg/L	-	-	-	-	-	-	-	-	-
1,2-Dichloroethene (total)	µg/L	-	-	-	13	9.6	13	3	5.5	2.8
cis-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	-	-	-
Trichlorofluoromethane	µg/L	-	-	-	-	-	-	-	-	-
Acetone	µg/L	-	-	-	ND	ND	ND	ND	ND	ND
Carbon Disulfide	µg/L	-	-	-	ND	ND	ND	ND	ND	ND
4-Methyl-2-Pentanone	µg/L	-	-	-	ND	ND	ND	ND	ND	ND
2-Hexanone	µg/L	-	-	-	ND	ND	ND	ND	ND	ND
Styrene	µg/L	-	-	-	ND	ND	ND	ND	ND	ND
Xylenes (total)	µg/L	-	-	-	ND	ND	ND	ND	ND	ND
Total Volatile Organics	µg/L	0	0	0	17	12.2	17	3.5	6.6	3.47

PT-21A
Ash Landfill

Parameters	Source: Units	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	GTC
		Jan 1990 1	Mar 1990 1	June 1990 2	Sept 1990 3	Dec 1990 4	Mar 1991 1	June 1991 2	Sept 1991 3	Dec 1991 4	Mar 1992 2	June 1992 3	Dec 1992 4	
METALS														
Aluminum	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Antimony	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	mg/L	-	-	-	ND	-	ND	-	-	-	-	-	-	-
Barium	mg/L	-	-	-	1.1	-	0.144	-	-	-	-	-	-	-
Beryllium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	mg/L	-	-	-	ND	-	ND	-	-	-	-	-	-	-
Calcium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	mg/L	-	-	-	0.08	-	ND	-	-	-	-	-	-	-
Cobalt	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron	mg/L	-	-	-	85	-	0.842	-	-	-	-	-	-	-
Lead	mg/L	-	-	-	0.027	-	ND	-	-	-	-	-	-	-
Magnesium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	ug/L	-	-	-	ND	-	ND	-	-	-	-	-	-	-
Nickel	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Potassium	mg/L	-	-	-	9.5	-	45.6	-	-	-	-	-	-	-
Selenium	mg/L	-	-	-	ND	-	ND	-	-	-	-	-	-	-
Silver	mg/L	-	-	-	ND	-	ND	-	-	-	-	-	-	-
Sodium	mg/L	-	-	-	32	-	45.6	-	-	-	-	-	-	-
Thallium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide	mg/L	-	-	-	ND	-	ND	-	-	-	-	-	-	-
MISCELLANEOUS														
Ethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Methane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
CO2	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Ferrous Iron	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Sulfide	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
DOC	mg C/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Redox Potential	mV	-	-	-	-	-	-	-	-	-	-	-	-	-
Alkalinity (total)	mg CaCO3/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Halogens/Halides (T	mg/L	-	-	-	-	0.031	0.02	-	-	-	-	-	-	-
Chloride	mg/L	-	-	-	74.2	-	6.3	-	-	-	-	-	-	-
Conductivity (field)	µmhos/cm	460	400	670	750	900	410	980	1100	1130	1130	970	-	-
Conductivity (lab)	µmhos/cm	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrite Nitrogen	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrate/Nitrite Nitrogen	mg/L	-	-	-	0.6	-	0.26	-	-	-	-	-	-	-
Nitrate as N - Calculation	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
pH (Lab)	std. units	-	-	-	7.7	-	8	-	-	-	-	-	-	-
pH (field)	std. units	6.95	7.37	7.4	7.45	6.85	8.39	6.86	7.06	7.24	7.02	7.36	-	-
Sulfate	mg/L	-	-	-	136	-	170	-	-	-	-	-	-	-
Total Organic Carbon (TOC)	mg/L	-	-	-	6.6	-	5.5	-	-	-	-	-	-	-
Temperature (field)	Celsius	10	8	13	14	8	8	11	12	10	8	10	-	-
Turbidity	NTUs	-	-	-	-	-	-	-	-	-	-	-	-	-

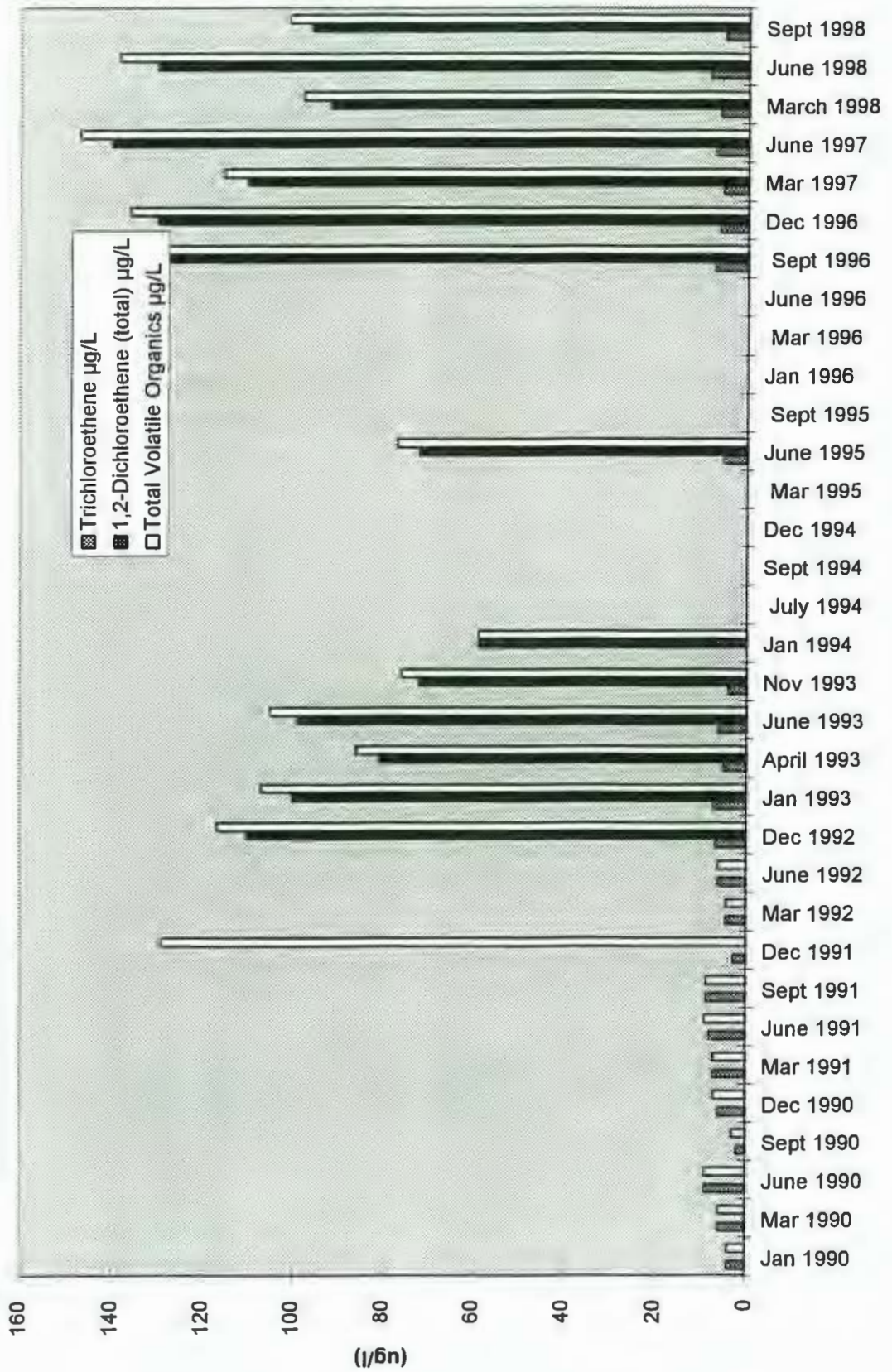
PT-21A
Ash Landfill

Parameters	Source: Units	ES	ES	ES	PES	PES	PES	PES	PES	PES	PES	PES	PES
		Jan 1993 1	April 1993 2	June 1993 3	Nov 1993 4	Jan 1994 1	July 1994 2	Sept 1994 3	Dec 1994 4	Mar 1995 1	June 1995 2	Sept 1995 3	Jan 1996 4
METALS													
Aluminum	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Antimony	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Barium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Calcium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Copper	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Iron	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Lead	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Magnesium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Potassium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Silver	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Sodium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Thallium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
MISCELLANEOUS													
Ethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Ethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Methane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
CO2	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Ferrous Iron	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Sulfide	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
DOC	mg C/L	-	-	-	-	-	-	-	-	-	-	-	-
Redox Potential	mV	-	-	-	-	-	-	-	-	-	-	-	-
Alkalinity (total)	mg CaCO3/L	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Halogens/Halides (T)	mg/L	-	-	-	0.05	0.02	-	-	-	-	-	-	-
Chloride	mg/L	-	-	-	84	67	-	-	-	-	-	-	-
Conductivity (field)	µmhos/cm	-	600	-	-	-	-	-	-	-	-	-	-
Conductivity (lab)	µmhos/cm	-	-	-	990	890	-	-	-	-	-	-	-
Nitrite Nitrogen	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Nitrate/Nitrite Nitrogen	mg/L	-	-	-	0.41	0.31	-	-	-	-	-	-	-
Nitrate as N - Calculation	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
pH (Lab)	std. units	-	-	-	7.49	7.72	-	-	-	-	-	-	-
pH (field)	std. units	-	7.04	-	-	-	-	-	-	-	-	-	-
Sulfate	mg/L	-	-	-	140	120	-	-	-	-	-	-	-
Total Organic Carbon (TOC)	mg/L	-	-	-	3	1	-	-	-	-	-	-	-
Temperature (field)	Celsius	-	9	-	-	-	-	-	-	-	-	-	-
Turbidity	NTUs	-	-	-	-	-	-	-	-	-	-	-	-

PT-21A
Ash Landfill

Parameters	Source: Units	PES	PES	PES	PES	PES	PES	PES	PES	PES
		Mar 1996 1	June 1996 2	Sept 1996 3	Dec 1996 4	Mar 1997 1	June 1997 2	Mar 1998 1	Jun 1998 2	Sept 1998 3
METALS										
Aluminum	mg/L	-	-	-	-	-	-	131	-	-
Antimony	mg/L	-	-	-	-	-	-	ND	-	-
Arsenic	mg/L	-	-	-	-	-	-	ND	-	-
Barium	mg/L	-	-	-	-	-	-	65.1	-	-
Beryllium	mg/L	-	-	-	-	-	-	0.31	-	-
Cadmium	mg/L	-	-	-	-	-	-	ND	-	-
Calcium	mg/L	-	-	-	-	-	-	176000	-	-
Chromium	mg/L	-	-	-	-	-	-	7.8	-	-
Cobalt	mg/L	-	-	-	-	-	-	ND	-	-
Copper	mg/L	-	-	-	-	-	-	7.7	-	-
Iron	mg/L	-	-	-	-	-	-	582	-	-
Lead	mg/L	-	-	-	-	-	-	ND	-	-
Magnesium	mg/L	-	-	-	-	-	-	39900	-	-
Manganese	mg/L	-	-	-	-	-	-	317	-	-
Mercury	mg/L	-	-	-	-	-	-	ND	-	-
Nickel	mg/L	-	-	-	-	-	-	ND	-	-
Potassium	mg/L	-	-	-	-	-	-	12600	-	-
Selenium	mg/L	-	-	-	-	-	-	ND	-	-
Silver	mg/L	-	-	-	-	-	-	3.2	-	-
Sodium	mg/L	-	-	-	-	-	-	39500	-	-
Thallium	mg/L	-	-	-	-	-	-	7	-	-
Vanadium	mg/L	-	-	-	-	-	-	ND	-	-
Zinc	mg/L	-	-	-	-	-	-	9.5	-	-
Cyanide	mg/L	-	-	-	-	-	-	ND	-	-
MISCELLANEOUS										
Ethene	mg/L	-	-	-	ND	ND	ND	ND	ND	ND
Ethane	mg/L	-	-	-	ND	ND	ND	ND	ND	ND
Methane	mg/L	-	-	-	0.0123	0.011	0.0022	0.0082	0.0064	0.0043
CO2	mg/L	-	-	-	-	-	-	-	-	-
Ferrous Iron	mg/L	-	-	-	0.01	0.1	0.1	0.1	0.16	0.33
Sulfide	mg/L	-	-	-	-	-	-	-	-	-
DOC	mg C/L	-	-	-	1.9	1.9	2	1.8	1.8	4.7
Redox Potential	mV	-	-	-	330	212	297	241	230	199
Alkalinity (total)	mg CaCO3/L	-	-	-	314	272	244	244	260	250
Total Organic Halogens/Halides (T)	mg/L	-	-	-	-	-	-	-	-	-
Chloride	mg/L	-	-	-	119	138	134	117	125	123
Conductivity (field)	µmhos/cm	-	-	-	1171	1151	1121	1095	1217	1202
Conductivity (lab)	µmhos/cm	-	-	-	-	-	-	-	-	-
Nitrite Nitrogen	mg/L	-	-	-	-	-	-	-	-	-
Nitrate/Nitrite Nitrogen	mg/L	-	-	-	0.61	0.44	0.23	0.63	0.35	0.19
Nitrate as N - Calculation	mg/L	-	-	-	-	-	-	-	-	-
pH (Lab)	std. units	-	-	-	-	-	-	-	-	-
pH (field)	std. units	-	-	-	6.75	6.91	7.18	6.95	6.96	7.02
Sulfate	mg/L	-	-	-	203	203	198	218	202	195
Total Organic Carbon (TOC)	mg/L	-	-	-	-	-	-	-	-	-
Temperature (field)	Celsius	-	-	-	-	-	-	-	-	-
Turbidity	NTUs	-	-	-	-	-	-	-	-	-

PT-24



Note: Well was not sampled July 1994-Mar 1995 and Sept 1995-June 1996.

PT-24
Ash Landfill

Parameters	Source: Units	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	GTC
		Jan 1990 1	Mar 1990 1	June 1990 2	Sept 1990 3	Dec 1990 4	Mar 1991 1	June 1991 2	Sept 1991 3	Dec 1991 4	Mar 1992 2	June 1992 3	Dec 1992 4	4			
VOLATILE ORGANICS		624	624	624	624	624	624	624	624	624	624	624	624	624	624	624	624
Chloromethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	µg/L	ND	ND	ND	1	1	ND	1	ND	126	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	µg/L	4	6	9	2	6	7	8	8.61	2.8	4.4	6.2	6.7				
Dibromochloromethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl Ether	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene (total)	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	110
cis-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon Disulfide	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Methyl-2-Pentanone	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Hexanone	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylenes (total)	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	-	-
Total Volatile Organics	µg/L	4	6	9	3	7	7	9	8.61	128.8	4.4	6.2	116.7				

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Ash Landfill

Parameters	Source: Units	ES	ES	ES	PES	PES	PES	PES	PES	PES	PES	PES	PES	
		Jan 1993	April 1993	June 1993	Nov 1993	Jan 1994	July 1994	Sept 1994	Dec 1994	Mar 1995	June 1995	Sept 1995	Jan 1996	
		1	2	3	4	1	2	3	4	1	2	3	4	
VOLATILE ORGANICS		NYSCLP					NYSCLP					NYSCLP		
Chloromethane	µg/L	ND	ND	ND	ND	ND	-	-	-	-	ND	-	-	
Bromomethane	µg/L	ND	ND	ND	ND	ND	-	-	-	-	ND	-	-	
Vinyl Chloride	µg/L	ND	ND	ND	ND	ND	-	-	-	-	ND	-	-	
Chloroethane	µg/L	ND	ND	ND	ND	ND	-	-	-	-	ND	-	-	
Methylene Chloride	µg/L	ND	ND	ND	ND	ND	-	-	-	-	ND	-	-	
1,1-Dichloroethene	µg/L	ND	ND	ND	ND	ND	-	-	-	-	ND	-	-	
1,1-Dichloroethane	µg/L	ND	ND	ND	ND	ND	-	-	-	-	ND	-	-	
Chloroform	µg/L	ND	ND	ND	ND	ND	-	-	-	-	ND	-	-	
1,2-Dichloroethane	µg/L	ND	ND	ND	ND	ND	-	-	-	-	ND	-	-	
1,1,1-Trichloroethane	µg/L	ND	ND	ND	ND	ND	-	-	-	-	ND	-	-	
Carbon Tetrachloride	µg/L	ND	ND	ND	ND	ND	-	-	-	-	ND	-	-	
Bromodichloromethane	µg/L	ND	ND	ND	ND	ND	-	-	-	-	ND	-	-	
1,2-Dichloropropane	µg/L	ND	ND	ND	ND	ND	-	-	-	-	ND	-	-	
cis-1,3-Dichloropropene	µg/L	ND	ND	ND	ND	ND	-	-	-	-	ND	-	-	
Trichloroethene	µg/L	7	5	6	4	ND	-	-	-	-	5	-	-	
Dibromochloromethane	µg/L	ND	ND	ND	ND	ND	-	-	-	-	ND	-	-	
1,1,2-Trichloroethane	µg/L	ND	ND	ND	ND	ND	-	-	-	-	ND	-	-	
Benzene	µg/L	ND	ND	ND	ND	ND	-	-	-	-	ND	-	-	
trans-1,3-Dichloropropene	µg/L	ND	ND	ND	ND	ND	-	-	-	-	ND	-	-	
Bromoform	µg/L	ND	ND	ND	ND	ND	-	-	-	-	ND	-	-	
Tetrachloroethene	µg/L	ND	ND	ND	ND	ND	-	-	-	-	ND	-	-	
1,1,2,2-Tetrachloroethane	µg/L	ND	ND	ND	ND	ND	-	-	-	-	ND	-	-	
Toluene	µg/L	ND	ND	ND	ND	ND	-	-	-	-	ND	-	-	
Chlorobenzene	µg/L	ND	ND	ND	ND	ND	-	-	-	-	ND	-	-	
Ethylbenzene	µg/L	ND	ND	ND	ND	ND	-	-	-	-	ND	-	-	
2-Chloroethylvinyl Ether	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	
1,3-Dichlorobenzene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	
1,2-Dichlorobenzene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	
1,4-Dichlorobenzene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	
1,2-Dichloroethene (total)	µg/L	100	81	99	72	59	-	-	-	-	72	-	-	
cis-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	
trans-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	
Trichlorofluoromethane	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	
Acetone	µg/L	ND	ND	ND	ND	ND	-	-	-	-	ND	-	-	
Carbon Disulfide	µg/L	ND	ND	ND	ND	ND	-	-	-	-	ND	-	-	
4-Methyl-2-Pentanone	µg/L	ND	ND	ND	ND	ND	-	-	-	-	ND	-	-	
2-Hexanone	µg/L	ND	ND	ND	ND	ND	-	-	-	-	ND	-	-	
Styrene	µg/L	ND	ND	ND	ND	ND	-	-	-	-	ND	-	-	
Xylenes (total)	µg/L	ND	ND	ND	ND	ND	-	-	-	-	ND	-	-	
Total Volatile Organics	µg/L	107	86	105	76	59	0	0	0	0	77	0	0	

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Ash Landfill

Parameters	Source: Units	PES	PES	PES	PES	PES	PES	PES	PES	PES
		Mar 1996 1	June 1996 2	Sept 1996 3	Dec 1996 4	Mar 1997 1	June 1997 2	March 1998 1	June 1998 2	Sept 1998 3
VOLATILE ORGANICS				524.2	NYSCPL	NYSCPL	NYSCPL	NYSCPL	NYSCPL	NYSCPL
Chloromethane	µg/L	-	-	ND	ND	ND	ND	ND	ND	ND
Bromomethane	µg/L	-	-	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	µg/L	-	-	ND	ND	ND	ND	ND	ND	ND
Chloroethane	µg/L	-	-	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	µg/L	-	-	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	µg/L	-	-	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	µg/L	-	-	ND	ND	ND	ND	ND	ND	ND
Chloroform	µg/L	-	-	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	µg/L	-	-	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	µg/L	-	-	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	µg/L	-	-	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	µg/L	-	-	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	µg/L	-	-	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	µg/L	-	-	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	µg/L	-	-	7	6	5.4	7	6	8.3	5
Dibromochloromethane	µg/L	-	-	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	µg/L	-	-	ND	ND	ND	ND	ND	ND	ND
Benzene	µg/L	-	-	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	µg/L	-	-	ND	ND	ND	ND	ND	ND	ND
Bromoform	µg/L	-	-	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	µg/L	-	-	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	µg/L	-	-	ND	ND	ND	ND	ND	ND	ND
Toluene	µg/L	-	-	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	µg/L	-	-	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	µg/L	-	-	ND	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl Ether	µg/L	-	-	ND	-	-	-	-	-	-
1,3-Dichlorobenzene	µg/L	-	-	ND	-	-	-	-	-	-
1,2-Dichlorobenzene	µg/L	-	-	ND	-	-	-	-	-	-
1,4-Dichlorobenzene	µg/L	-	-	ND	-	-	-	-	-	-
1,2-Dichloroethene (total)	µg/L	-	-	130	130	110	140	92	130	96
cis-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	µg/L	-	-	ND	-	-	-	-	-	-
Trichlorofluoromethane	µg/L	-	-	ND	-	-	-	-	-	-
Acetone	µg/L	-	-	5	ND	ND	ND	ND	ND	ND
Carbon Disulfide	µg/L	-	-	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-Pentanone	µg/L	-	-	ND	ND	ND	ND	ND	ND	ND
2-Hexanone	µg/L	-	-	ND	ND	ND	ND	ND	ND	ND
Styrene	µg/L	-	-	ND	ND	ND	ND	ND	ND	ND
Xylenes (total)	µg/L	-	-	ND	ND	ND	ND	ND	ND	ND
Total Volatile Organics	µg/L	0	0	142	136	115.4	147	98	138.3	101

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Ash Landfill

Parameters	Source: Units	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	GTC
		Jan 1990 1	Mar 1990 1	June 1990 2	Sept 1990 3	Dec 1990 4	Mar 1991 1	June 1991 2	Sept 1991 3	Dec 1991 4	Mar 1992 2	June 1992 3	Dec 1992 4	
METALS														
Aluminum	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Antimony	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	mg/L	-	ND	-	ND	-	ND	-	ND	-	ND	-	ND	-
Barium	mg/L	-	ND	-	ND	-	0.065	-	0.13	-	0.054	-	-	-
Beryllium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	mg/L	-	ND	-	ND	-	ND	-	ND	-	ND	-	ND	-
Calcium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	mg/L	-	0.041	-	ND	-	ND	-	0.037	-	ND	-	-	-
Cobalt	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron	mg/L	-	34	-	1.2	-	8.79	-	33.7	-	4.13	-	-	-
Lead	mg/L	-	0.013	-	ND	-	ND	-	0.02	-	ND	-	-	-
Magnesium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	mg/L	-	ND	-	ND	-	ND	-	ND	-	ND	-	ND	-
Nickel	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Potassium	mg/L	-	ND	-	2.1	-	2.2	-	5.85	-	1.86	-	-	-
Selenium	mg/L	-	ND	-	ND	-	ND	-	ND	-	ND	-	ND	-
Silver	mg/L	-	ND	-	ND	-	ND	-	ND	-	ND	-	ND	-
Sodium	mg/L	-	15	-	14	-	13.4	-	16.2	-	14.1	-	-	-
Thallium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
MISCELLANEOUS														
Ethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Methane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
CO2	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Ferrous Iron	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Sulfide	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
DOC	mg C/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Redox Potential	mV	-	-	-	-	-	-	-	-	-	-	-	-	-
Alkalinity (total)	mg CaCO3/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Halogens/Halides (TO)	mg/L	-	0.0138	-	-	-	0.054	0.07	0.029	-	0.06	-	-	-
Chloride	mg/L	-	30	-	17.4	-	19.7	-	16.2	-	21	-	-	-
Conductivity (field)	µmhos/cm	350	330	510	500	540	420	725	770	740	700	650	-	-
Conductivity (lab)	µmhos/cm	-	-	-	-	-	540	-	-	-	627	-	-	-
Nitrite Nitrogen	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrate/Nitrite Nitrogen	mg/L	-	0.26	-	0.34	-	0.17	-	0.43	-	0.11	-	-	-
Nitrate as N - Calculation	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
pH (Lab)	std. units	-	7.2	-	7	-	7.2	-	7.7	-	7.2	-	-	-
pH (field)	std. units	6.8	7.44	7.25	7.3	6.35	7.82	6.62	7.19	7.28	7.12	7.27	-	-
Sulfate	mg/L	-	120	-	125	-	80	-	93	-	75.7	-	-	-
Total Organic Carbon (TOC)	mg/L	-	16	-	4.4	-	16.7	-	9.2	-	4	-	-	-
Temperature (field)	Celsius	7.5	7	15	16	9	7	13	15	8	6	11	-	-
Turbidity	NTUs	-	-	-	-	-	-	-	-	-	-	-	-	-

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Ash Landfill

Parameters	Source: Units	ES	ES	ES	PES	PES	PES	PES	PES	PES	PES	PES	PES
		Jan 1993	April 1993	June 1993	Nov 1993	Jan 1994	July 1994	Sept 1994	Dec 1994	Mar 1995	June 1995	Sept 1995	Jan 1996
		1	2	3	4	1	2	3	4	1	2	3	4
METALS													
Aluminum	mg/L	13.5	-	1180	-	-	-	-	-	-	-	-	-
Antimony	mg/L	ND	-	ND	-	-	-	-	-	-	-	-	-
Arsenic	mg/L	0.0016	-	ND	-	-	-	-	-	-	-	-	-
Barium	mg/L	0.116	-	49.8	-	-	-	-	-	-	-	-	-
Beryllium	mg/L	ND	-	0.32	-	-	-	-	-	-	-	-	-
Cadmium	mg/L	ND	-	ND	-	-	-	-	-	-	-	-	-
Calcium	mg/L	125	-	1113000	-	-	-	-	-	-	-	-	-
Chromium	mg/L	0.0176	-	ND	-	-	-	-	-	-	-	-	-
Cobalt	mg/L	0.0088	-	ND	-	-	-	-	-	-	-	-	-
Copper	mg/L	0.0111	-	2.6	-	-	-	-	-	-	-	-	-
Iron	mg/L	17.8	-	1460	-	-	-	-	-	-	-	-	-
Lead	mg/L	0.0091	-	1.1	-	-	-	-	-	-	-	-	-
Magnesium	mg/L	17.2	-	12500	-	-	-	-	-	-	-	-	-
Manganese	mg/L	0.375	-	51.1	-	-	-	-	-	-	-	-	-
Mercury	mg/L	ND	-	ND	-	-	-	-	-	-	-	-	-
Nickel	mg/L	0.0206	-	ND	-	-	-	-	-	-	-	-	-
Potassium	mg/L	3.6	-	1890	-	-	-	-	-	-	-	-	-
Selenium	mg/L	0.0012	-	ND	-	-	-	-	-	-	-	-	-
Silver	mg/L	ND	-	ND	-	-	-	-	-	-	-	-	-
Sodium	mg/L	16.7	-	15100	-	-	-	-	-	-	-	-	-
Thallium	mg/L	ND	-	ND	-	-	-	-	-	-	-	-	-
Vanadium	mg/L	0.0195	-	4	-	-	-	-	-	-	-	-	-
Zinc	mg/L	0.0781	-	11.3	-	-	-	-	-	-	-	-	-
Cyanide	mg/L	ND	-	1.8	-	-	-	-	-	-	-	-	-
MISCELLANEOUS													
Ethene	mg/L	-	-	-	-	-	-	-	-	-	-	ND	-
Ethane	mg/L	-	-	-	-	-	-	-	-	-	-	ND	-
Methane	mg/L	-	-	-	-	-	-	-	-	-	-	ND	-
CO2	mg/L	-	-	-	-	-	-	-	-	-	-	275	-
Ferrous Iron	mg/L	-	-	-	-	-	-	-	-	-	-	0.12	-
Sulfide	mg/L	-	-	-	-	-	-	-	-	-	-	ND	-
DOC	mg C/L	-	-	-	-	-	-	-	-	-	-	4.6	-
Redox Potential	mV	-	-	-	-	-	-	-	-	-	-	372.4	-
Alkalinity (total)	mg CaCO3/L	-	-	-	-	-	-	-	-	-	-	288	-
Total Organic Halogens/Halides (TOC)	mg/L	0.05	0.05	0.09	ND	0.03	-	-	-	-	-	-	-
Chloride	mg/L	17.6	16	16	13	14	-	-	-	-	-	40.3	-
Conductivity (field)	µmhos/cm	425	390	500	-	-	-	-	-	-	-	-	-
Conductivity (lab)	µmhos/cm	663	620	650	650	750	-	-	-	-	-	763	-
Nitrite Nitrogen	mg/L	ND	-	-	-	-	-	-	-	-	-	ND	-
Nitrate/Nitrite Nitrogen	mg/L	0.18	0.28	0.06	0.33	0.26	-	-	-	-	-	0.15	-
Nitrate as N - Calculation	mg/L	0.18	-	-	-	-	-	-	-	-	-	-	-
pH (Lab)	std. units	7.17	7.16	6.95	7.17	7.33	-	-	-	-	-	7.09	-
pH (field)	std. units	6.7	7.13	7.54	-	-	-	-	-	-	-	-	-
Sulfate	mg/L	55	44	37	47	49	-	-	-	-	-	79	-
Total Organic Carbon (TOC)	mg/L	2	2	ND	2	2	-	-	-	-	-	-	-
Temperature (field)	Celsius	6	5	13.7	-	-	-	-	-	-	-	-	-
Turbidity	NTUs	>200	-	-	-	-	-	-	-	-	-	-	-

PT-24
Ash Landfill

Parameters	Source: Units	PES	PES	PES	PES	PES	PES	PES	PES	PES
		Mar 1996 1	June 1996 2	Sept 1996 3	Dec 1996 4	Mar 1997 1	June 1997 2	March 1998 1	June 1998 2	Sept 1998 3
METALS										
Aluminum	mg/L	-	-	-	-	-	-	-	-	-
Antimony	mg/L	-	-	-	-	-	-	-	-	-
Arsenic	mg/L	-	-	-	-	-	-	-	-	-
Barium	mg/L	-	-	-	-	-	-	-	-	-
Beryllium	mg/L	-	-	-	-	-	-	-	-	-
Cadmium	mg/L	-	-	-	ND	-	-	-	-	-
Calcium	mg/L	-	-	-	-	-	-	-	-	-
Chromium	mg/L	-	-	-	ND	-	-	-	-	-
Cobalt	mg/L	-	-	-	-	-	-	-	-	-
Copper	mg/L	-	-	-	-	-	-	-	-	-
Iron	mg/L	-	-	-	-	-	-	-	-	-
Lead	mg/L	-	-	-	ND	-	-	-	-	-
Magnesium	mg/L	-	-	-	-	-	-	-	-	-
Manganese	mg/L	-	-	-	ND	-	-	-	-	-
Mercury	mg/L	-	-	-	-	-	-	-	-	-
Nickel	mg/L	-	-	-	ND	-	-	-	-	-
Potassium	mg/L	-	-	-	-	-	-	-	-	-
Selenium	mg/L	-	-	-	-	-	-	-	-	-
Silver	mg/L	-	-	-	-	-	-	-	-	-
Sodium	mg/L	-	-	-	-	-	-	-	-	-
Thallium	mg/L	-	-	-	-	-	-	-	-	-
Vanadium	mg/L	-	-	-	-	-	-	-	-	-
Zinc	mg/L	-	-	-	-	-	-	-	-	-
Cyanide	mg/L	-	-	-	-	-	-	-	-	-
MISCELLANEOUS										
Ethene	mg/L	-	-	-	ND	ND	ND	ND	ND	ND
Ethane	mg/L	-	-	-	ND	ND	ND	ND	ND	ND
Methane	mg/L	-	-	-	ND	ND	ND	ND	ND	ND
CO2	mg/L	-	-	-	-	-	-	-	-	-
Ferrous Iron	mg/L	-	-	-	0	0.07	0.15	0	0	0
Sulfide	mg/L	-	-	-	-	-	-	-	-	-
DOC	mg C/L	-	-	-	1.6	1.5	2	1.8	1.8	6.2
Redox Potential	mV	-	-	-	359	331	329	358	342	250
Alkalinity (total)	mg CaCO3/L	-	-	-	332	326	324	254	280	310
Total Organic Halogens/Halides (TO	mg/L	-	-	-	-	-	-	-	-	-
Chloride	mg/L	-	-	-	29.4	33.3	27.8	22.1	24.8	16.8
Conductivity (field)	µmhos/cm	-	-	-	810	840	801	664	831	800
Conductivity (lab)	µmhos/cm	-	-	-	-	-	-	-	-	-
Nitrite Nitrogen	mg/L	-	-	-	-	-	-	-	-	-
Nitrate/Nitrite Nitrogen	mg/L	-	-	-	1.3	0.91	0.66	0.78	0.4	0.04
Nitrate as N - Calculation	mg/L	-	-	-	-	-	-	-	-	-
pH (Lab)	std. units	-	-	-	-	-	-	-	-	-
pH (field)	std. units	-	-	-	6.62	6.68	6.65	6.7	6.8	6.7
Sulfate	mg/L	-	-	-	118	126	116	128	126	84.2
Total Organic Carbon (TOC)	mg/L	-	-	-	-	-	-	-	-	-
Temperature (field)	Celsius	-	-	-	-	-	-	-	-	-
Turbidity	NTUs	-	-	-	-	-	-	-	-	-

MW-30
Ash Landfill

Parameters	Source: Units	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	GTC
		Jan 1990 1	Mar 1990 1	June 1990 2	Sept 1990 3	Dec 1990 4	Mar 1991 1	June 1991 2	Sept 1991 3	Dec 1991 4	Mar 1992 2	June 1992 3	Dec 1992 4
VOLATILE ORGANICS		624	624	624	624	624	624	624	624	624	624	624	624
Chloromethane	µg/L	ND	ND	ND	ND	ND	ND	-	-	ND	ND	ND	ND
Bromomethane	µg/L	ND	ND	ND	ND	ND	ND	-	-	ND	ND	ND	ND
Vinyl Chloride	µg/L	ND	ND	ND	ND	ND	ND	-	-	ND	ND	ND	ND
Chloroethane	µg/L	ND	ND	ND	ND	ND	ND	-	-	ND	ND	ND	ND
Methylene Chloride	µg/L	ND	ND	ND	ND	ND	ND	-	-	ND	ND	ND	ND
1,1-Dichloroethene	µg/L	ND	ND	ND	ND	ND	ND	-	-	ND	ND	ND	ND
1,1-Dichloroethane	µg/L	ND	ND	ND	ND	ND	ND	-	-	ND	ND	ND	ND
Chloroform	µg/L	ND	ND	ND	ND	ND	ND	-	-	ND	ND	ND	ND
1,2-Dichloroethane	µg/L	ND	ND	ND	ND	ND	ND	-	-	ND	ND	ND	ND
1,1,1-Trichloroethane	µg/L	ND	ND	ND	ND	ND	ND	-	-	ND	ND	ND	ND
Carbon Tetrachloride	µg/L	ND	ND	ND	ND	ND	ND	-	-	ND	ND	ND	ND
Bromodichloromethane	µg/L	ND	ND	ND	ND	ND	ND	-	-	ND	ND	ND	ND
1,2-Dichloropropane	µg/L	ND	ND	ND	ND	ND	ND	-	-	ND	ND	ND	ND
cis-1,3-Dichloropropene	µg/L	ND	ND	ND	ND	ND	ND	-	-	ND	ND	ND	ND
Trichloroethene	µg/L	ND	ND	ND	1	ND	ND	-	-	2.4	ND	ND	ND
Dibromochloromethane	µg/L	ND	ND	ND	ND	ND	ND	-	-	ND	ND	ND	ND
1,1,2-Trichloroethane	µg/L	ND	ND	ND	ND	ND	ND	-	-	ND	ND	ND	ND
Benzene	µg/L	ND	ND	ND	ND	ND	ND	-	-	ND	ND	ND	ND
trans-1,3-Dichloropropene	µg/L	ND	ND	ND	ND	ND	ND	-	-	ND	ND	ND	ND
Bromoform	µg/L	ND	ND	ND	ND	ND	ND	-	-	ND	ND	ND	ND
Tetrachloroethene	µg/L	ND	ND	ND	ND	ND	ND	-	-	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	µg/L	ND	ND	ND	ND	ND	ND	-	-	ND	ND	ND	ND
Toluene	µg/L	ND	ND	ND	ND	ND	ND	-	-	ND	ND	ND	ND
Chlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	-	-	ND	ND	ND	ND
Ethylbenzene	µg/L	ND	ND	ND	ND	ND	ND	-	-	ND	ND	ND	ND
2-Chloroethylvinyl Ether	µg/L	ND	ND	ND	ND	ND	ND	-	-	ND	ND	ND	ND
1,3-Dichlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	-	-	ND	ND	ND	-
1,2-Dichlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	-	-	ND	ND	ND	-
1,4-Dichlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	-	-	ND	ND	ND	-
1,2-Dichloroethene (total)	µg/L	-	-	-	-	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	-	-	-	-	-	ND
trans-1,2-Dichloroethene	µg/L	ND	ND	ND	ND	ND	ND	-	-	ND	ND	ND	ND
Trichlorofluoromethane	µg/L	ND	ND	ND	ND	ND	ND	-	-	ND	ND	ND	ND
Acetone	µg/L	-	-	-	-	-	-	-	-	-	-	-	-
Carbon Disulfide	µg/L	-	-	-	-	-	-	-	-	-	-	-	-
4-Methyl-2-Pentanone	µg/L	-	-	-	-	-	-	-	-	-	-	-	-
2-Hexanone	µg/L	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-
Xylenes (total)	µg/L	-	-	-	-	-	-	-	-	-	-	-	-
Total Volatile Organics	µg/L	0	0	0	1	0	0	0	0	2.4	0	0	0

MW-30
Ash Landfill

Parameters	Source: Units	ES	ES	ES	PES	PES	PES	PES	PES	PES	PES	PES	PES		
		Jan 1993	April 1993	June 1993	Nov 1993	Jan 1994	July 1994	Sept 1994	1994	Mar 1995	June 1995	Sept 1995	Jan 1996		
		1	2	3	4	1	2	3	4	1	2	3	4		
VOLATILE ORGANICS		NYSCLP										524.2		524.2	
Chloromethane	µg/L	ND	ND	ND	ND	ND	ND	-	-	ND	-	-	ND		
Bromomethane	µg/L	ND	ND	ND	ND	ND	ND	-	-	ND	-	-	ND		
Vinyl Chloride	µg/L	ND	ND	ND	ND	ND	ND	-	-	ND	-	-	ND		
Chloroethane	µg/L	ND	ND	ND	ND	ND	ND	-	-	ND	-	-	ND		
Methylene Chloride	µg/L	ND	ND	ND	ND	ND	ND	-	-	ND	-	-	ND		
1,1-Dichloroethene	µg/L	ND	ND	ND	ND	ND	ND	-	-	ND	-	-	ND		
1,1-Dichloroethane	µg/L	ND	ND	ND	ND	ND	ND	-	-	ND	-	-	ND		
Chloroform	µg/L	ND	ND	ND	ND	ND	ND	-	-	ND	-	-	ND		
1,2-Dichloroethane	µg/L	ND	ND	ND	ND	ND	ND	-	-	ND	-	-	ND		
1,1,1-Trichloroethane	µg/L	ND	ND	ND	ND	ND	ND	-	-	ND	-	-	ND		
Carbon Tetrachloride	µg/L	ND	ND	ND	ND	ND	ND	-	-	ND	-	-	ND		
Bromodichloromethane	µg/L	ND	ND	ND	ND	ND	ND	-	-	ND	-	-	ND		
1,2-Dichloropropane	µg/L	ND	ND	ND	ND	ND	ND	-	-	ND	-	-	ND		
cis-1,3-Dichloropropene	µg/L	ND	ND	ND	ND	ND	ND	-	-	ND	-	-	ND		
Trichloroethene	µg/L	ND	ND	ND	ND	ND	0.8	-	-	0.6	-	-	0.7		
Dibromochloromethane	µg/L	ND	ND	ND	ND	ND	ND	-	-	ND	-	-	ND		
1,1,2-Trichloroethane	µg/L	ND	ND	ND	ND	ND	ND	-	-	ND	-	-	ND		
Benzene	µg/L	ND	ND	ND	ND	ND	ND	-	-	ND	-	-	ND		
trans-1,3-Dichloropropene	µg/L	ND	ND	ND	ND	ND	ND	-	-	ND	-	-	ND		
Bromoform	µg/L	ND	ND	ND	ND	ND	ND	-	-	ND	-	-	ND		
Tetrachloroethene	µg/L	ND	ND	ND	ND	ND	ND	-	-	ND	-	-	ND		
1,1,2,2-Tetrachloroethane	µg/L	ND	ND	ND	ND	ND	ND	-	-	ND	-	-	ND		
Toluene	µg/L	ND	ND	ND	ND	ND	ND	-	-	ND	-	-	ND		
Chlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	-	-	ND	-	-	ND		
Ethylbenzene	µg/L	ND	ND	ND	ND	ND	ND	-	-	ND	-	-	ND		
2-Chloroethylvinyl Ether	µg/L	-	-	-	-	-	-	-	-	ND	-	-	ND		
1,3-Dichlorobenzene	µg/L	-	-	-	-	-	-	-	-	ND	-	-	ND		
1,2-Dichlorobenzene	µg/L	-	-	-	-	-	-	-	-	ND	-	-	ND		
1,4-Dichlorobenzene	µg/L	-	-	-	-	-	-	-	-	ND	-	-	ND		
1,2-Dichloroethene (total)	µg/L	ND	ND	ND	ND	ND	ND	-	-	ND	-	-	ND		
cis-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	-	-	ND	-	-	ND		
trans-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	-	-	ND	-	-	ND		
Trichlorofluoromethane	µg/L	-	-	-	-	-	-	-	-	ND	-	-	ND		
Acetone	µg/L	ND	ND	ND	ND	ND	ND	-	-	ND	-	-	ND		
Carbon Disulfide	µg/L	ND	ND	ND	ND	ND	ND	-	-	ND	-	-	ND		
4-Methyl-2-Pentanone	µg/L	ND	ND	ND	ND	ND	ND	-	-	ND	-	-	ND		
2-Hexanone	µg/L	ND	ND	ND	ND	ND	ND	-	-	ND	-	-	ND		
Styrene	µg/L	ND	ND	ND	ND	ND	ND	-	-	ND	-	-	ND		
Xylenes (total)	µg/L	ND	ND	ND	ND	ND	ND	-	-	ND	-	-	ND		
Total Volatile Organics	µg/L	0	0	0	0	0	0.8	0	0	0.6	0	0	0.7		

MW-30
Ash Landfill

Parameters	Source: Units	PES	PES	PES	PES	PES	PES	PES	PES	PES
		Mar 1996 1	June 1996 2	Sept 1996 3	Dec 1996 4	Mar 1997 1	June 1997 2	March 1998 1	June 1998 2	Sept 1998 3
VOLATILE ORGANICS		524.2	524.2	524.2	524.2	524.2	524.2	524.2	524.2	524.2
Chloromethane	µg/L	ND	ND	0.3	ND	ND	ND	ND	ND	ND
Bromomethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	µg/L	1	1	1	ND	ND	ND	ND	0.52	ND
Dibromochloromethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl Ether	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene (total)	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-Pentanone	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Hexanone	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes (total)	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Volatile Organics	µg/L	1	1	1.3	0	0	0	0	0.52	0

MW-30
Ash Landfill

Parameters	Source: Units	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	GTC
		Jan 1990	Mar 1990	June 1990	Sept 1990	Dec 1990	Mar 1991	June 1991	Sept 1991	Dec 1991	Mar 1992	June 1992	Dec 1992	4		
		1	1	2	3	4	1	2	3	4	2	3	4			
METALS																
Aluminum	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Antimony	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	mg/L	-	-	-	-	-	-	ND	ND	-	-	ND	-	-	-	-
Barium	mg/L	-	-	-	-	-	-	0.054	ND	-	-	0.049	-	-	-	-
Beryllium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	mg/L	-	-	-	-	-	-	ND	ND	-	-	ND	-	-	-	-
Calcium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	mg/L	-	-	-	-	-	-	ND	ND	-	-	ND	-	-	-	-
Cobalt	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron	mg/L	-	-	-	-	-	-	7.08	ND	-	-	3.92	-	-	-	-
Lead	mg/L	-	-	-	-	-	-	ND	ND	-	-	ND	-	-	-	-
Magnesium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	mg/L	-	-	-	-	-	-	ND	ND	-	-	ND	-	-	-	-
Nickel	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Potassium	mg/L	-	-	-	-	-	-	2.38	ND	-	-	2.36	-	-	-	-
Selenium	mg/L	-	-	-	-	-	-	ND	ND	-	-	ND	-	-	-	-
Silver	mg/L	-	-	-	-	-	-	ND	ND	-	-	ND	-	-	-	-
Sodium	mg/L	-	-	-	-	-	-	15.8	ND	-	-	16.5	-	-	-	-
Thallium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MISCELLANEOUS																
Ethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO2	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ferrous Iron	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sulfide	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DOC	mg C/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Redox Potential	mV	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alkalinity (total)	mg CaCO3/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Halogens/Halides (TOX)	mg/L	-	-	-	-	-	-	ND	-	-	-	ND	-	-	-	-
Chloride	mg/L	-	-	-	-	-	-	26.6	-	-	-	32.5	-	-	-	-
Conductivity (field)	µmhos/cm	420	390	-	660	620	420	-	-	-	850	720	760	-	-	-
Conductivity (lab)	µmhos/cm	-	-	-	-	-	-	-	-	-	-	645	-	-	-	-
Nitrite Nitrogen	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrate/Nitrite Nitrogen	mg/L	-	-	-	-	-	-	-	-	-	-	ND	-	-	-	-
Nitrate as N - Calculation	mg/L	-	-	-	-	-	-	0.05	-	-	-	-	-	-	-	-
pH (Lab)	std. units	-	-	-	-	-	-	7.3	-	-	-	7.4	-	-	-	-
pH (field)	std. units	6.9	7.11	7.27	7.3	7.15	8.03	-	-	-	7.25	7.14	7.12	-	-	-
Sulfate	mg/L	-	-	-	-	-	-	35.7	-	-	-	88.4	-	-	-	-
Total Organic Carbon (TOC)	mg/L	-	-	-	-	-	-	13.6	-	-	-	2	-	-	-	-
Temperature (field)	Celcius	6	4	16	15	6	5	-	-	-	10	5	12	-	-	-
Turbidity	NTUs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

MW-30
Ash Landfill

Parameters	Source: Units	ES	ES	ES	PES	PES	PES	PES	PES	PES	PES	PES	PES
		Jan 1993 1	April 1993 2	June 1993 3	Nov 1993 4	Jan 1994 1	July 1994 2	Sept 1994 3	1994 4	Mar 1995 1	June 1995 2	Sept 1995 3	Jan 1996 4
METALS													
Aluminum	mg/L	1.06	-	-	-	-	-	-	-	-	-	-	-
Antimony	ng/L	ND	-	-	-	-	-	-	-	-	-	-	-
Arsenic	ng/L	0.0019	-	-	-	-	-	-	-	-	-	-	-
Barium	ng/L	0.0678	-	-	-	-	-	-	-	-	-	-	-
Beryllium	mg/L	0.00043	-	-	-	-	-	-	-	-	-	-	-
Cadmium	ng/L	ND	-	-	-	-	-	-	-	-	-	-	-
Calcium	mg/L	119	-	-	-	-	-	-	-	-	-	-	-
Chromium	mg/L	ND	-	-	-	-	-	-	-	-	-	-	-
Cobalt	mg/L	ND	-	-	-	-	-	-	-	-	-	-	-
Copper	mg/L	0.0041	-	-	-	-	-	-	-	-	-	-	-
Iron	mg/L	0.682	-	-	-	-	-	-	-	-	-	-	-
Lead	mg/L	0.0025	-	-	-	-	-	-	-	-	-	-	-
Magnesium	ng/L	17	-	-	-	-	-	-	-	-	-	-	-
Manganese	ng/L	0.356	-	-	-	-	-	-	-	-	-	-	-
Mercury	mg/L	0.00007	-	-	-	-	-	-	-	-	-	-	-
Nickel	mg/L	ND	-	-	-	-	-	-	-	-	-	-	-
Potassium	mg/L	1.67	-	-	-	-	-	-	-	-	-	-	-
Selenium	ng/L	ND	-	-	-	-	-	-	-	-	-	-	-
Silver	mg/L	ND	-	-	-	-	-	-	-	-	-	-	-
Sodium	mg/L	18.2	-	-	-	-	-	-	-	-	-	-	-
Thallium	ng/L	ND	-	-	-	-	-	-	-	-	-	-	-
Vanadium	ng/L	ND	-	-	-	-	-	-	-	-	-	-	-
Zinc	mg/L	0.0189	-	-	-	-	-	-	-	-	-	-	-
Cyanide	mg/L	ND	-	-	-	-	-	-	-	-	-	-	-
MISCELLANEOUS													
Ethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Ethane	ng/L	-	-	-	-	-	-	-	-	-	-	-	-
Methane	ng/L	-	-	-	-	-	-	-	-	-	-	-	-
CO2	ng/L	-	-	-	-	-	-	-	-	-	-	-	-
Ferrous Iron	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Sulfide	ng/L	-	-	-	-	-	-	-	-	-	-	-	-
DOC	mg C/L	-	-	-	-	-	-	-	-	-	-	-	-
Redox Potential	mV	-	-	-	-	-	-	-	-	-	-	-	-
Alkalinity (total)	mg CaCO3/L	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Halogens/Halides (TOX)	mg/L	ND	ND	-	ND	ND	-	-	-	-	-	-	-
Chloride	mg/L	28	28	-	28	29	-	-	-	-	-	-	-
Conductivity (field)	µmhos/cm	410	365	600	-	-	-	-	-	-	-	-	-
Conductivity (lab)	µmhos/cm	689	630	-	760	600	-	-	-	-	-	-	-
Nitrite Nitrogen	mg/L	ND	-	-	-	-	-	-	-	-	-	-	-
Nitrate/Nitrite Nitrogen	mg/L	0.13	0.35	-	0.26	0.19	-	-	-	-	-	-	-
Nitrate as N - Calculation	mg/L	0.13	-	-	-	-	-	-	-	-	-	-	-
pH (Lab)	std. units	7.29	7.24	-	7.25	7.27	-	-	-	-	-	-	-
pH (field)	std. units	7.14	7.4	7.81	-	-	-	-	-	-	-	-	-
Sulfate	mg/L	57	39	-	57	32	-	-	-	-	-	-	-
Total Organic Carbon (TOC)	mg/L	1.9	2	-	1	4	-	-	-	-	-	-	-
Temperature (field)	Celsius	4	5	14.4	-	-	-	-	-	-	-	-	-
Turbidity	NTUs	>200	90	-	-	-	-	-	-	-	-	-	-

MW-30
Ash Landfill

Parameters	Source: Units	PES	PES	PES	PES	PES	PES	PES	PES	PES
		Mar 1996 1	June 1996 2	Sept 1996 3	Dec 1996 4	Mar 1997 1	June 1997 2	March 1998 1	June 1998 2	Sept 1998 3
METALS										
Aluminum	mg/L	-	-	-	-	-	-	-	-	-
Antimony	mg/L	-	-	-	-	-	-	-	-	-
Arsenic	mg/L	-	-	-	-	-	-	-	-	-
Barium	mg/L	-	-	-	-	-	-	-	-	-
Beryllium	mg/L	-	-	-	-	-	-	-	-	-
Cadmium	mg/L	-	-	-	-	-	-	-	-	-
Calcium	mg/L	-	-	-	-	-	-	-	-	-
Chromium	mg/L	-	-	-	-	-	-	-	-	-
Cobalt	mg/L	-	-	-	-	-	-	-	-	-
Copper	mg/L	-	-	-	-	-	-	-	-	-
Iron	mg/L	-	-	-	-	-	-	-	-	-
Lead	mg/L	-	-	-	-	-	-	-	-	-
Magnesium	mg/L	-	-	-	-	-	-	-	-	-
Manganese	mg/L	-	-	-	-	-	-	-	-	-
Mercury	ug/L	-	-	-	-	-	-	-	-	-
Nickel	mg/L	-	-	-	-	-	-	-	-	-
Potassium	mg/L	-	-	-	-	-	-	-	-	-
Selenium	mg/L	-	-	-	-	-	-	-	-	-
Silver	mg/L	-	-	-	-	-	-	-	-	-
Sodium	mg/L	-	-	-	-	-	-	-	-	-
Thallium	mg/L	-	-	-	-	-	-	-	-	-
Vanadium	mg/L	-	-	-	-	-	-	-	-	-
Zinc	mg/L	-	-	-	-	-	-	-	-	-
Cyanide	mg/L	-	-	-	-	-	-	-	-	-
MISCELLANEOUS										
Ethene	mg/L	-	-	-	ND	ND	ND	ND	ND	ND
Ethane	mg/L	-	-	-	ND	ND	ND	ND	ND	ND
Methane	mg/L	-	-	-	0.0008	ND	ND	ND	ND	ND
CO2	ug/L	-	-	-	-	-	-	-	-	-
Ferrous Iron	ug/L	-	-	-	0.02	0	-	0.06	0	0
Sulfide	mg/L	-	-	-	-	-	-	-	-	-
DOC	mg C/L	-	-	-	2	1.8	2.5	1.9	2	1.4
Redox Potential	mV	-	-	-	345	305	305	294	274	322
Alkalinity (total)	mg CaCO3/L	-	-	-	266	264	300	240	257	292
Total Organic Halogens/Halides (TOX)	mg/L	-	-	-	-	-	-	-	-	-
Chloride	mg/L	-	-	-	32.4	26.4	33.1	16.9	12	20.2
Conductivity (field)	µmhos/cm	-	-	-	586	599	711	495	544	716
Conductivity (lab)	µmhos/cm	-	-	-	-	-	-	-	-	-
Nitrite Nitrogen	mg/L	-	-	-	-	-	-	-	-	-
Nitrate/Nitrite Nitrogen	mg/L	-	-	-	0.07	0.12	0.16	0.11	0.11	0.88
Nitrate as N - Calculation	mg/L	-	-	-	-	-	-	-	-	-
pH (Lab)	std. units	-	-	-	-	-	-	-	-	-
pH (field)	std. units	-	-	-	6.82	6.97	6.97	6.82	6.97	6.93
Sulfate	mg/L	-	-	-	47.7	42.2	46.1	45.7	30.5	53.8
Total Organic Carbon (TOC)	mg/L	-	-	-	-	-	-	-	-	-
Temperature (field)	Celsius	-	-	-	-	-	-	-	-	-
Turbidity	NTUs	-	-	-	-	-	-	-	-	-

MW-36
Ash Landfill

Parameters	Source: Units	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET
		Jan 1990	Mar 1990	June 1990	Sept 1990	Dec 1990	Mar 1991	June 1991	Sept 1991	Dec 1991	Mar 1992	June 1992	Dec 1992
		1	1	2	3	4	1	2	3	4	2	3	4
VOLATILE ORGANICS													
Chloromethane	µg/L	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane	µg/L	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Chloride	µg/L	-	-	-	-	-	-	-	-	-	-	-	-
Chloroethane	µg/L	-	-	-	-	-	-	-	-	-	-	-	-
Methylene Chloride	µg/L	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	µg/L	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform	µg/L	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethane	µg/L	-	-	-	-	-	-	-	-	-	-	-	-
1,1,1-Trichloroethane	µg/L	-	-	-	-	-	-	-	-	-	-	-	-
Carbon Tetrachloride	µg/L	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	µg/L	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	µg/L	-	-	-	-	-	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	µg/L	-	-	-	-	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	µg/L	-	-	-	-	-	-	-	-	-	-	-	-
Benzene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,3-Dichloropropene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-
Bromoform	µg/L	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	µg/L	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-
2-Chloroethylvinyl Ether	µg/L	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichlorobenzene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichlorobenzene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethene (total)	µg/L	-	-	-	-	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorofluoromethane	µg/L	-	-	-	-	-	-	-	-	-	-	-	-
Acetone	µg/L	-	-	-	-	-	-	-	-	-	-	-	-
Carbon Disulfide	µg/L	-	-	-	-	-	-	-	-	-	-	-	-
4-Methyl-2-Pentanone	µg/L	-	-	-	-	-	-	-	-	-	-	-	-
2-Hexanone	µg/L	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-
Xylenes (total)	µg/L	-	-	-	-	-	-	-	-	-	-	-	-
Total Volatile Organics	µg/L	0	0	0	0	0	0	0	0	0	0	0	0

MW-36
Ash Landfill

Parameters	Source: Units	ES	ES	ES	PES	PES	PES	PES	PES	PES	PES	PES	PES
		Jan 1993 1	Apr 1993 2	Jun 1993 3	Nov 1993 4	Jan 1994 1	July 1994 2	Sept 1994 3	1994 4	Mar 1995 1	June 1995 2	Sept 1995 3	Jan 1996 4
VOLATILE ORGANICS		NYSCLP	NYSCLP	NYSCLP	NYSCLP	NYSCLP	NYSCLP	NYSCLP	NYSCLP	524.2	524.2	524.2	
Chloromethane	µg/L	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ND
Bromomethane	µg/L	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ND
Vinyl Chloride	µg/L	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ND
Chloroethane	µg/L	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ND
Methylene Chloride	µg/L	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ND
1,1-Dichloroethene	µg/L	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ND
1,1-Dichloroethane	µg/L	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ND
Chloroform	µg/L	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ND
1,2-Dichloroethane	µg/L	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ND
1,1,1-Trichloroethane	µg/L	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ND
Carbon Tetrachloride	µg/L	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ND
Bromodichloromethane	µg/L	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ND
1,2-Dichloropropane	µg/L	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ND
cis-1,3-Dichloropropene	µg/L	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ND
Trichloroethene	µg/L	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ND
Dibromochloromethane	µg/L	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ND
1,1,2-Trichloroethane	µg/L	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ND
Benzene	µg/L	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ND
trans-1,3-Dichloropropene	µg/L	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ND
Bromoform	µg/L	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ND
Tetrachloroethene	µg/L	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	µg/L	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ND
Toluene	µg/L	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ND
Chlorobenzene	µg/L	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ND
Ethylbenzene	µg/L	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ND
2-Chloroethylvinyl Ether	µg/L	-	-	-	-	-	-	-	-	-	ND	ND	ND
1,3-Dichlorobenzene	µg/L	-	-	-	-	-	-	-	-	-	ND	ND	ND
1,2-Dichlorobenzene	µg/L	-	-	-	-	-	-	-	-	-	ND	ND	ND
1,4-Dichlorobenzene	µg/L	-	-	-	-	-	-	-	-	-	ND	ND	ND
1,2-Dichloroethene (total)	µg/L	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ND
cis-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	-	-	-	ND	ND	ND
trans-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	-	-	-	ND	ND	ND
Trichlorofluoromethane	µg/L	-	-	-	-	-	-	-	-	-	ND	ND	ND
Acetone	µg/L	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ND
Carbon Disulfide	µg/L	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ND
4-Methyl-2-Pentanone	µg/L	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ND
2-Hexanone	µg/L	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ND
Styrene	µg/L	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ND
Xylenes (total)	µg/L	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ND
Total Volatile Organics	µg/L	0	0	0	0	0	0	0	0	0	0	0	0

MW-36
Ash Landfill

Parameters	Source: Units	PES	PES	PES	PES	PES	PES	PES	PES	PES
		Mar 1996 1	June 1996 2	Sept 1996 3	Dec 1996 4	Mar 1997 1	June 1997 2	arch 1998 1	June 1998 2	Sept 1998 3
VOLATILE ORGANICS		524.2	524.2	524.2	524.2	524.2	524.2	524.2	524.2	524.2
Chloromethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	µg/L	ND	ND	ND	2	ND	ND	ND	ND	ND
1,2-Dichloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl Ether	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene (total)	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-Pentanone	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Hexanone	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes (total)	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Volatile Organics	µg/L	0	0	0	2	0	0	0	0	0

MW-36
Ash Landfill

Parameters	Source: Units	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET
		Jan 1990 1	Mar 1990 1	June 1990 2	Sept 1990 3	Dec 1990 4	Mar 1991 1	June 1991 2	Sept 1991 3	Dec 1991 4	Mar 1992 2	June 1992 3	Dec 1992 4
METALS													
Aluminum	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Antimony	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Barium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Calcium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Copper	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Iron	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Lead	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Magnesium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Potassium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Silver	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Sodium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Thallium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
MISCELLANEOUS													
Ethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Ethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Methane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
CO2	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Ferrous Iron	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Sulfide	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
DOC	mg C/L	-	-	-	-	-	-	-	-	-	-	-	-
Redox Potential	mV	-	-	-	-	-	-	-	-	-	-	-	-
Alkalinity (total)	mg CaCO3/L	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Halogens/Halides (mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Chloride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Conductivity (field)	µmhos/cm	-	-	-	-	-	-	-	-	-	-	-	-
Conductivity (lab)	µmhos/cm	-	-	-	-	-	-	-	-	-	-	-	-
Nitrite Nitrogen	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Nitrate/Nitrite Nitrogen	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Nitrate as N - Calculation	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
pH (Lab)	std. units	-	-	-	-	-	-	-	-	-	-	-	-
pH (field)	std. units	-	-	-	-	-	-	-	-	-	-	-	-
Sulfate	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon (TOC)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Temperature (field)	Celcius	-	-	-	-	-	-	-	-	-	-	-	-
Turbidity	NTUs	-	-	-	-	-	-	-	-	-	-	-	-

MW-36
Ash Landfill

Parameters	Source: Units	ES	ES	ES	PES	PES	PES	PES	PES	PES	PES	PES	PES
		Jan 1993 1	Apr 1993 2	Jun 1993 3	Nov 1993 4	Jan 1994 1	July 1994 2	Sept 1994 3	1994 4	Mar 1995 1	June 1995 2	Sept 1995 3	Jan 1996 4
METALS													
Aluminum	mg/L	0.836	-	1250.00	-	-	-	-	-	-	-	-	-
Antimony	mg/L	ND	-	ND	-	-	-	-	-	-	-	-	-
Arsenic	mg/L	ND	-	ND	-	-	-	-	-	-	-	-	-
Barium	mg/L	0.107	-	78.30	-	-	-	-	-	-	-	-	-
Beryllium	mg/L	ND	-	0.32	-	-	-	-	-	-	-	-	-
Cadmium	mg/L	ND	-	ND	-	-	-	-	-	-	-	-	-
Calcium	mg/L	163	-	133000.0	-	-	-	-	-	-	-	-	-
Chromium	mg/L	ND	-	ND	-	-	-	-	-	-	-	-	-
Cobalt	mg/L	0.0076	-	ND	-	-	-	-	-	-	-	-	-
Copper	mg/L	0.0029	-	4.8	-	-	-	-	-	-	-	-	-
Iron	mg/L	0.772	-	1690.0	-	-	-	-	-	-	-	-	-
Lead	mg/L	0.0019	-	1.6	-	-	-	-	-	-	-	-	-
Magnesium	mg/L	23.5	-	18300.0	-	-	-	-	-	-	-	-	-
Manganese	mg/L	0.517	-	127.0	-	-	-	-	-	-	-	-	-
Mercury	mg/L	ND	-	ND	-	-	-	-	-	-	-	-	-
Nickel	mg/L	ND	-	ND	-	-	-	-	-	-	-	-	-
Potassium	mg/L	1.79	-	2110.0	-	-	-	-	-	-	-	-	-
Selenium	mg/L	ND	-	3.3	-	-	-	-	-	-	-	-	-
Silver	mg/L	ND	-	ND	-	-	-	-	-	-	-	-	-
Sodium	mg/L	21.3	-	22100.0	-	-	-	-	-	-	-	-	-
Thallium	mg/L	ND	-	ND	-	-	-	-	-	-	-	-	-
Vanadium	mg/L	ND	-	4.0	-	-	-	-	-	-	-	-	-
Zinc	mg/L	0.0137	-	18.3	-	-	-	-	-	-	-	-	-
Cyanide	mg/L	ND	-	ND	-	-	-	-	-	-	-	-	-
MISCELLANEOUS													
Ethene	mg/L	-	-	-	-	-	-	-	-	-	-	ND	-
Ethane	mg/L	-	-	-	-	-	-	-	-	-	-	ND	-
Methane	mg/L	-	-	-	-	-	-	-	-	-	-	ND	-
CO2	mg/L	-	-	-	-	-	-	-	-	-	-	270	-
Ferrous Iron	mg/L	-	-	-	-	-	-	-	-	-	-	ND	-
Sulfide	mg/L	-	-	-	-	-	-	-	-	-	-	ND	-
DOC	mg C/L	-	-	-	-	-	-	-	-	-	-	1.8	-
Redox Potential	mV	-	-	-	-	-	-	-	-	-	-	379.3	-
Alkalinity (total)	mg CaCO3/L	-	-	-	-	-	-	-	-	-	-	273	-
Total Organic Halogens/Halides (mg/L	ND	ND	ND	ND	ND	-	-	-	-	-	-	-
Chloride	mg/L	35	29	29.00	27	37	-	-	-	-	-	48.8	-
Conductivity (field)	µmhos/cm	500	470	525.00	-	-	-	-	-	-	-	-	-
Conductivity (lab)	µmhos/cm	8070	760	750.00	550	990	-	-	-	-	-	706	-
Nitrite Nitrogen	mg/L	ND	-	-	-	-	-	-	-	-	-	ND	-
Nitrate/Nitrite Nitrogen	mg/L	3.4	2.5	1.70	0.62	1.1	-	-	-	-	-	-	-
Nitrate as N - Calculation	mg/L	3.4	-	-	-	-	-	-	-	-	-	1.7	-
pH (Lab)	std. units	7.3	7.7	7.07	7.37	7.27	-	-	-	-	-	7.25	-
pH (field)	std. units	7	7.30	7.45	-	-	-	-	-	-	-	-	-
Sulfate	mg/L	63	78	68.00	30	70	-	-	-	-	-	62.6	-
Total Organic Carbon (TOC)	mg/L	1.1	1.0	2.00	6	2	-	-	-	-	-	-	-
Temperature (field)	Celsius	7	7.50	12.70	-	-	-	-	-	-	-	-	-
Turbidity	NTUs	185	9.80	>100	-	-	-	-	-	-	-	-	-

MW-36
Ash Landfill

Parameters	Source: Units	PES	PES	PES	PES	PES	PES	PES	PES	PES
		Mar 1996 1	June 1996 2	Sept 1996 3	Dec 1996 4	Mar 1997 1	June 1997 2	arch 1998 1	June 1998 2	Sept 1998 3
METALS										
Aluminum	mg/L	-	-	-	-	-	-	-	-	-
Antimony	mg/L	-	-	-	-	-	-	-	-	-
Arsenic	mg/L	-	-	-	-	-	-	-	-	-
Barium	mg/L	-	-	-	-	-	-	-	-	-
Beryllium	mg/L	-	-	-	-	-	-	-	-	-
Cadmium	mg/L	-	-	-	-	-	-	-	-	-
Calcium	mg/L	-	-	-	-	-	-	-	-	-
Chromium	mg/L	-	-	-	-	-	-	-	-	-
Cobalt	mg/L	-	-	-	-	-	-	-	-	-
Copper	mg/L	-	-	-	-	-	-	-	-	-
Iron	mg/L	-	-	-	-	-	-	-	-	-
Lead	mg/L	-	-	-	-	-	-	-	-	-
Magnesium	mg/L	-	-	-	-	-	-	-	-	-
Manganese	mg/L	-	-	-	-	-	-	-	-	-
Mercury	mg/L	-	-	-	-	-	-	-	-	-
Nickel	mg/L	-	-	-	-	-	-	-	-	-
Potassium	mg/L	-	-	-	-	-	-	-	-	-
Selenium	mg/L	-	-	-	-	-	-	-	-	-
Silver	mg/L	-	-	-	-	-	-	-	-	-
Sodium	mg/L	-	-	-	-	-	-	-	-	-
Thallium	mg/L	-	-	-	-	-	-	-	-	-
Vanadium	mg/L	-	-	-	-	-	-	-	-	-
Zinc	mg/L	-	-	-	-	-	-	-	-	-
Cyanide	mg/L	-	-	-	-	-	-	-	-	-
MISCELLANEOUS										
Ethene	mg/L	-	-	-	ND	ND	ND	ND	ND	ND
Ethane	mg/L	-	-	-	ND	ND	ND	ND	ND	ND
Methane	mg/L	-	-	-	ND	ND	ND	ND	ND	ND
CO2	mg/L	-	-	-	-	-	-	-	-	-
Ferrous Iron	mg/L	-	-	-	0	0.03	-	-	0.03	1
Sulfide	mg/L	-	-	-	-	-	-	-	-	-
DOC	mg C/L	-	-	-	1.2	1.7	1.5	1.5	1.2	1.4
Redox Potential	mV	-	-	-	330	296	305	311	301	322
Alkalinity (total)	mg CaCO3/L	-	-	-	336	308	308	260	300	292
Total Organic Halogens/Halides (mg/L	-	-	-	-	-	-	-	-	-
Chloride	mg/L	-	-	-	28.9	29.9	30.6	18.2	19.8	20.2
Conductivity (field)	µmhos/cm	-	-	-	772	735	723	672	669	716
Conductivity (lab)	µmhos/cm	-	-	-	-	-	-	-	-	-
Nitrite Nitrogen	mg/L	-	-	-	-	-	-	-	-	-
Nitrate/Nitrite Nitrogen	mg/L	-	-	-	0.74	0.87	1.2	1.91	1.8	0.88
Nitrate as N - Calculation	mg/L	-	-	-	-	-	-	-	-	-
pH (Lab)	std. units	-	-	-	-	-	-	-	-	-
pH (field)	std. units	-	-	-	6.77	6.85	6.96	6.84	6.99	6.93
Sulfate	mg/L	-	-	-	62.4	70.3	62.8	56.3	52.6	53.8
Total Organic Carbon (TOC)	mg/L	-	-	-	-	-	-	-	-	-
Temperature (field)	Celsius	-	-	-	-	-	-	-	-	-
Turbidity	NTUs	-	-	-	-	-	-	-	-	-

MW-40
Ash Landfill

Parameters	Source: Units	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET
		Jan 1990	Mar 1990	June 1990	Sept 1990	Dec 1990	Mar 1991	June 1991	Sept 1991	Dec 1991	Mar 1992	June 1992	
		1	1	2	3	4	1	2	3	4	2	3	
VOLATILE ORGANICS													
Chloromethane	µg/L	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane	µg/L	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Chloride	µg/L	-	-	-	-	-	-	-	-	-	-	-	-
Chloroethane	µg/L	-	-	-	-	-	-	-	-	-	-	-	-
Methylene Chloride	µg/L	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	µg/L	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform	µg/L	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethane	µg/L	-	-	-	-	-	-	-	-	-	-	-	-
1,1,1-Trichloroethane	µg/L	-	-	-	-	-	-	-	-	-	-	-	-
Carbon Tetrachloride	µg/L	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	µg/L	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	µg/L	-	-	-	-	-	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	µg/L	-	-	-	-	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	µg/L	-	-	-	-	-	-	-	-	-	-	-	-
Benzene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,3-Dichloropropene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-
Bromoform	µg/L	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	µg/L	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-
2-Chloroethylvinyl Ether	µg/L	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichlorobenzene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichlorobenzene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethene (total)	µg/L	-	-	-	-	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorofluoromethane	µg/L	-	-	-	-	-	-	-	-	-	-	-	-
Acetone	µg/L	-	-	-	-	-	-	-	-	-	-	-	-
Carbon Disulfide	µg/L	-	-	-	-	-	-	-	-	-	-	-	-
4-Methyl-2-Pentanone	µg/L	-	-	-	-	-	-	-	-	-	-	-	-
2-Hexanone	µg/L	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-
Xylenes (total)	µg/L	-	-	-	-	-	-	-	-	-	-	-	-
Total Volatile Organics	µg/L	0	0	0	0	0	0	0	0	0	0	0	0

MW-40
Ash Landfill

Parameters	Source: Units	NET	ES	ES	ES	PES	PES	PES	PES	PES	PES	PES
		Dec 1992	Jan 1993	Apr 1993	Jun 1993	Nov 1993	Jan 1994	July 1994	Sept 1994	Dec 1994	Mar 1995	June 1995
		4	1	2	3	4	1	2	3	4	1	2
VOLATILE ORGANICS			NYSCLP	NYSCLP	NYSCLP	NYSCLP	NYSCLP	NYSCLP	NYSCLP		NYSCLP	524.2
Chloromethane	µg/L	-	ND	ND	ND	ND	ND	ND	ND	-	ND	ND
Bromomethane	µg/L	-	ND	ND	ND	ND	ND	ND	ND	-	ND	ND
Vinyl Chloride	µg/L	-	ND	ND	ND	ND	ND	ND	ND	-	ND	ND
Chloroethane	µg/L	-	ND	ND	ND	ND	ND	ND	ND	-	ND	ND
Methylene Chloride	µg/L	-	ND	2	ND	ND	ND	ND	ND	-	ND	ND
1,1-Dichloroethene	µg/L	-	ND	ND	ND	ND	ND	ND	ND	-	ND	ND
1,1-Dichloroethane	µg/L	-	ND	ND	ND	ND	ND	ND	ND	-	ND	ND
Chloroform	µg/L	-	ND	ND	ND	ND	ND	ND	ND	-	ND	ND
1,2-Dichloroethane	µg/L	-	ND	ND	ND	ND	ND	ND	ND	-	ND	ND
1,1,1-Trichloroethane	µg/L	-	ND	ND	ND	ND	ND	ND	ND	-	ND	ND
Carbon Tetrachloride	µg/L	-	ND	ND	ND	ND	ND	ND	ND	-	ND	ND
Bromodichloromethane	µg/L	-	ND	ND	ND	ND	ND	ND	ND	-	ND	ND
1,2-Dichloropropane	µg/L	-	ND	ND	ND	ND	ND	ND	ND	-	ND	ND
cis-1,3-Dichloropropene	µg/L	-	ND	ND	ND	ND	ND	ND	ND	-	ND	ND
Trichloroethene	µg/L	-	ND	ND	ND	ND	ND	ND	ND	-	ND	ND
Dibromochloromethane	µg/L	-	ND	ND	ND	ND	ND	ND	ND	-	ND	ND
1,1,2-Trichloroethane	µg/L	-	ND	ND	ND	ND	ND	ND	ND	-	ND	ND
Benzene	µg/L	-	ND	ND	ND	ND	ND	ND	ND	-	ND	ND
trans-1,3-Dichloropropene	µg/L	-	ND	ND	ND	ND	ND	ND	ND	-	ND	ND
Bromoform	µg/L	-	ND	ND	ND	ND	ND	ND	ND	-	ND	ND
Tetrachloroethene	µg/L	-	ND	ND	ND	ND	ND	ND	ND	-	ND	ND
1,1,2,2-Tetrachloroethane	µg/L	-	ND	ND	ND	ND	ND	ND	ND	-	ND	ND
Toluene	µg/L	-	ND	ND	ND	ND	ND	ND	ND	-	ND	ND
Chlorobenzene	µg/L	-	ND	ND	ND	ND	ND	ND	ND	-	ND	ND
Ethylbenzene	µg/L	-	ND	ND	ND	ND	ND	ND	ND	-	ND	ND
2-Chloroethylvinyl Ether	µg/L	-	-	-	-	-	-	-	-	-	-	ND
1,3-Dichlorobenzene	µg/L	-	-	-	-	-	-	-	-	-	-	ND
1,2-Dichlorobenzene	µg/L	-	-	-	-	-	-	-	-	-	-	ND
1,4-Dichlorobenzene	µg/L	-	-	-	-	-	-	-	-	-	-	ND
1,2-Dichloroethene (total)	µg/L	-	ND	ND	ND	ND	ND	ND	ND	-	ND	ND
cis-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	-	-	-	-	ND
trans-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	-	-	-	-	ND
Trichlorofluoromethane	µg/L	-	-	-	-	-	-	-	-	-	-	ND
Acetone	µg/L	-	ND	ND	ND	ND	ND	ND	ND	-	ND	ND
Carbon Disulfide	µg/L	-	ND	ND	ND	ND	ND	ND	ND	-	ND	ND
4-Methyl-2-Pentanone	µg/L	-	ND	ND	ND	ND	ND	ND	ND	-	ND	ND
2-Hexanone	µg/L	-	ND	ND	ND	ND	ND	ND	ND	-	ND	ND
Styrene	µg/L	-	ND	ND	ND	ND	ND	ND	ND	-	ND	ND
Xylenes (total)	µg/L	-	ND	ND	ND	ND	ND	ND	ND	-	ND	ND
Total Volatile Organics	µg/L	0	0	2.00	0.00	0	0	0	0	0	0	0

MW-40
Ash Landfill

Parameters	Source: Units	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES
		Sept 1995 3	Jan 1996 4	Mar 1996 1	June 1996 2	Sept 1996 3	Dec 1996 4	Mar 1997 1	June 1997 2	March 1998 1	June 1998 2	Sept 1998 3
VOLATILE ORGANICS		524.2	524.2	524.2	524.2	524.2	524.2	524.2	524.2	524.2	524.2	524.2
Chloromethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl Ether	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene (total)	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-Pentanone	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Hexanone	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes (total)	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Volatile Organics	µg/L	0	0	0	0	0	0	0	0	0	0	0

MW-40
Ash Landfill

Parameters	Source: Units	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET
		Jan 1990	Mar 1990	June 1990	Sept 1990	Dec 1990	Mar 1991	June 1991	Sept 1991	Dec 1991	Mar 1992	June 1992
		1	1	2	3	4	1	2	3	4	2	3
METALS												
Aluminum	mg/L	-	-	-	-	-	-	-	-	-	-	-
Antimony	mg/L	-	-	-	-	-	-	-	-	-	-	-
Arsenic	mg/L	-	-	-	-	-	-	-	-	-	-	-
Barium	mg/L	-	-	-	-	-	-	-	-	-	-	-
Beryllium	mg/L	-	-	-	-	-	-	-	-	-	-	-
Cadmium	mg/L	-	-	-	-	-	-	-	-	-	-	-
Calcium	mg/L	-	-	-	-	-	-	-	-	-	-	-
Chromium	mg/L	-	-	-	-	-	-	-	-	-	-	-
Cobalt	mg/L	-	-	-	-	-	-	-	-	-	-	-
Copper	mg/L	-	-	-	-	-	-	-	-	-	-	-
Iron	mg/L	-	-	-	-	-	-	-	-	-	-	-
Lead	mg/L	-	-	-	-	-	-	-	-	-	-	-
Magnesium	mg/L	-	-	-	-	-	-	-	-	-	-	-
Manganese	mg/L	-	-	-	-	-	-	-	-	-	-	-
Mercury	mg/L	-	-	-	-	-	-	-	-	-	-	-
Nickel	mg/L	-	-	-	-	-	-	-	-	-	-	-
Potassium	mg/L	-	-	-	-	-	-	-	-	-	-	-
Selenium	mg/L	-	-	-	-	-	-	-	-	-	-	-
Silver	mg/L	-	-	-	-	-	-	-	-	-	-	-
Sodium	mg/L	-	-	-	-	-	-	-	-	-	-	-
Thallium	mg/L	-	-	-	-	-	-	-	-	-	-	-
Vanadium	mg/L	-	-	-	-	-	-	-	-	-	-	-
Zinc	mg/L	-	-	-	-	-	-	-	-	-	-	-
Cyanide	mg/L	-	-	-	-	-	-	-	-	-	-	-
MISCELLANEOUS												
Ethene	mg/L	-	-	-	-	-	-	-	-	-	-	-
Ethane	mg/L	-	-	-	-	-	-	-	-	-	-	-
Methane	mg/L	-	-	-	-	-	-	-	-	-	-	-
CO2	mg/L	-	-	-	-	-	-	-	-	-	-	-
Ferrous Iron	mg/L	-	-	-	-	-	-	-	-	-	-	-
Sulfide	mg/L	-	-	-	-	-	-	-	-	-	-	-
DOC	mg C/L	-	-	-	-	-	-	-	-	-	-	-
Redox Potential	mV	-	-	-	-	-	-	-	-	-	-	-
Alkalinity (total)	mg CaCO3/L	-	-	-	-	-	-	-	-	-	-	-
Total Organic Halogens/Halides (TOX)	mg/L	-	-	-	-	-	-	-	-	-	-	-
Chloride	mg/L	-	-	-	-	-	-	-	-	-	-	-
Conductivity (field)	µmhos/cm	-	-	-	-	-	-	-	-	-	-	-
Conductivity (lab)	µmhos/cm	-	-	-	-	-	-	-	-	-	-	-
Nitrite Nitrogen	mg/L	-	-	-	-	-	-	-	-	-	-	-
Nitrate/Nitrite Nitrogen	mg/L	-	-	-	-	-	-	-	-	-	-	-
Nitrate as N - Calculation	mg/L	-	-	-	-	-	-	-	-	-	-	-
pH (Lab)	std. units	-	-	-	-	-	-	-	-	-	-	-
pH (field)	std. units	-	-	-	-	-	-	-	-	-	-	-
Sulfate	mg/L	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon (TOC)	mg/L	-	-	-	-	-	-	-	-	-	-	-
Temperature (field)	Celsius	-	-	-	-	-	-	-	-	-	-	-
Turbidity	NTUs	-	-	-	-	-	-	-	-	-	-	-

MW-40
Ash Landfill

Parameters	Source: Units	NET	ES	ES	ES	PES	PES	PES	PES	PES	PES	PES
		Dec 1992 4	Jan 1993 1	Apr 1993 2	Jun 1993 3	Nov 1993 4	Jan 1994 1	July 1994 2	Sept 1994 3	Dec 1994 4	Mar 1995 1	June 1995 2
METALS												
Aluminum	mg/L	-	13.5	-	747.00	-	-	-	-	-	-	-
Antimony	mg/L	-	ND	-	ND	-	-	-	-	-	-	-
Arsenic	mg/L	-	0.0021	-	ND	-	-	-	-	-	-	-
Barium	mg/L	-	0.153	-	58.20	-	-	-	-	-	-	-
Beryllium	mg/L	-	0.00077	-	ND	-	-	-	-	-	-	-
Cadmium	mg/L	-	ND	-	ND	-	-	-	-	-	-	-
Calcium	mg/L	-	160	-	104000.00	-	-	-	-	-	-	-
Chromium	mg/L	-	0.0347	-	4.40	-	-	-	-	-	-	-
Cobalt	mg/L	-	0.0099	-	ND	-	-	-	-	-	-	-
Copper	mg/L	-	0.009	-	ND	-	-	-	-	-	-	-
Iron	mg/L	-	19.8	-	1140.00	-	-	-	-	-	-	-
Lead	mg/L	-	0.005	-	1.00	-	-	-	-	-	-	-
Magnesium	mg/L	-	19	-	11500.00	-	-	-	-	-	-	-
Manganese	mg/L	-	0.905	-	40.80	-	-	-	-	-	-	-
Mercury	mg/L	-	0.00009	-	ND	-	-	-	-	-	-	-
Nickel	mg/L	-	0.0281	-	ND	-	-	-	-	-	-	-
Potassium	mg/L	-	4.54	-	1740.00	-	-	-	-	-	-	-
Selenium	mg/L	-	ND	-	ND	-	-	-	-	-	-	-
Silver	mg/L	-	ND	-	ND	-	-	-	-	-	-	-
Sodium	mg/L	-	23	-	15100.00	-	-	-	-	-	-	-
Thallium	mg/L	-	ND	-	1.20	-	-	-	-	-	-	-
Vanadium	mg/L	-	0.0184	-	5.00	-	-	-	-	-	-	-
Zinc	mg/L	-	0.309	-	10.90	-	-	-	-	-	-	-
Cyanide	mg/L	-	ND	-	ND	-	-	-	-	-	-	-
MISCELLANEOUS												
Ethene	mg/L	-	-	-	-	-	-	-	-	-	-	ND
Ethane	mg/L	-	-	-	-	-	-	-	-	-	-	ND
Methane	mg/L	-	-	-	-	-	-	-	-	-	-	ND
CO2	mg/L	-	-	-	-	-	-	-	-	-	-	221
Ferrous Iron	mg/L	-	-	-	-	-	-	-	-	-	-	ND
Sulfide	mg/L	-	-	-	-	-	-	-	-	-	-	ND
DOC	mg C/L	-	-	-	-	-	-	-	-	-	-	1.4
Redox Potential	mV	-	-	-	-	-	-	-	-	-	-	362.3
Alkalinity (total)	mg CaCO3/L	-	-	-	-	-	-	-	-	-	-	217
Total Organic Halogens/Halides (TOX)	mg/L	-	ND	ND	0.02	ND	ND	-	-	-	-	-
Chloride	mg/L	-	5.9	4	6.00	6	5	-	-	-	-	12.5
Conductivity (field)	µmhos/cm	-	435	390	450.00	-	-	-	-	-	-	-
Conductivity (lab)	µmhos/cm	-	643	610	570.00	560	590	-	-	-	-	486
Nitrite Nitrogen	mg/L	-	0.004	-	-	-	-	-	-	-	-	-
Nitrate/Nitrite Nitrogen	mg/L	-	0.11	ND	0.25	0.13	0.15	-	-	-	-	0.13
Nitrate as N - Calculation	mg/L	-	0.106	-	-	-	-	-	-	-	-	-
pH (Lab)	std. units	-	7.49	7.29	7.21	7.43	7.41	-	-	-	-	7.41
pH (field)	std. units	-	6.82	7.24	7.88	-	-	-	-	-	-	-
Sulfate	mg/L	-	93	95	100.00	59	75	-	-	-	-	56.7
Total Organic Carbon (TOC)	mg/L	-	1.3	ND	2.00	ND	ND	-	-	-	-	-
Temperature (field)	Celsius	-	7.3	6.00	11.80	-	-	-	-	-	-	-
Turbidity	NTUs	-	150	6.20	>100	-	-	-	-	-	-	-

MW-40
Ash Landfill

Parameters	Source: Units	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES
		Sept 1995 3	Jan 1996 4	Mar 1996 1	June 1996 2	Sept 1996 3	Dec 1996 4	Mar 1997 1	June 1997 2	March 1998 1	June 1998 2	Sept 1998 3		
METALS														
Aluminum	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Antimony	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Calcium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Magnesium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Potassium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
MISCELLANEOUS														
Ethene	mg/L	-	-	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND
Ethane	mg/L	-	-	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND
Methane	mg/L	-	-	-	-	-	0.0033	ND	ND	ND	ND	ND	ND	ND
CO2	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Ferrous Iron	mg/L	-	-	-	-	-	0.01	0.14	0.26	0.02	0.05	0.04	-	-
Sulfide	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
DOC	mg C/L	-	-	-	-	-	0.9	1.1	1.8	1.8	1.5	4.4	-	-
Redox Potential	nV	-	-	-	-	-	309	304	317	288	297	281	-	-
Alkalinity (total)	mg CaCO3/L	-	-	-	-	-	249	236	240	246	252	254	-	-
Total Organic Halogens/Halides (TOX)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloride	mg/L	-	-	-	-	-	7.7	7.6	8.6	7.9	7.8	7.9	-	-
Conductivity (field)	µmhos/cm	-	-	-	-	-	566	525	566	583	613	591	-	-
Conductivity (lab)	µmhos/cm	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrite Nitrogen	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrate/Nitrite Nitrogen	mg/L	-	-	-	-	-	0.05	0.05	0.06	0.06	0.06	0.08	-	-
Nitrate as N - Calculation	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
pH (Lab)	std. units	-	-	-	-	-	-	-	-	-	-	-	-	-
pH (field)	std. units	-	-	-	-	-	7.12	7.16	7	6.89	7.08	6.96	-	-
Sulfate	mg/L	-	-	-	-	-	56	57.2	59.7	69.9	64.8	55.7	-	-
Total Organic Carbon (TOC)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Temperature (field)	Celsius	-	-	-	-	-	-	-	-	-	-	-	-	-
Turbidity	NTUs	-	-	-	-	-	-	-	-	-	-	-	-	-

MW-44
Ash Landfill

Parameters	Source: Units	PES	PES	PES	PES	PES	PES	PES	PES
		Jul 1993 Phase II RI	Nov 1993 Phase II A RI	Dec 1996 4	Mar 1997 1	June 1997 2	Mar 1998 1	June 1998 2	Sept 1998 3
VOLATILE ORGANICS		NYSCLP	NYSCLP	NYSCLP	NYSCLP	NYSCLP	NYSCLP	NYSCLP	NYSCLP
Chloromethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	µg/L	22000	23000	240	180	170	71	380	480
Chloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	µg/L	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	µg/L	200	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	µg/L	160	ND	ND	ND	ND	4	12	11
Chloroform	µg/L	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	µg/L	ND	ND	4	ND	130	ND	ND	ND
Carbon Tetrachloride	µg/L	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	µg/L	37000	51000	20	20	20	13	22	22
Dibromochloromethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	µg/L	170	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	µg/L	ND	ND	ND	ND	ND	0.79	ND	ND
Bromoform	µg/L	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	µg/L	880	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	µg/L	130	ND	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl Ether	µg/L	-	-	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	µg/L	ND	ND	ND	-	ND	ND	ND	ND
1,2-Dichloroethene (total)	µg/L	73000	13000	560	680	610	360	1100	1100
Trichlorofluoromethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	µg/L	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	µg/L	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-Pentanone	µg/L	ND	ND	ND	ND	ND	ND	ND	ND
2-Hexanone	µg/L	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND
Xylene (total)	µg/L	590	ND	ND	ND	ND	ND	ND	ND
Total Volatile Organics	µg/L	134130	204000	824	880	930	448.79	1514	1100

MW-44
Ash Landfill

Parameters	Source: Units	PES	PES	PES	PES	PES	PES	PES	PES
		Jul 1993 Phase II RI	Nov 1993 Phase IIA RI	Dec 1996 4	Mar 1997 1	June 1997 2	Mar 1998 1	June 1998 2	Sept 1998 3
METALS									
Aluminum	mg/L	12300	-	-	-	-	-	51.8	-
Antimony	ug/L	ND	-	-	-	-	-	ND	-
Arsenic	mg/L	7.8	-	-	-	-	-	5.8	-
Barium	mg/L	317	-	-	-	-	-	58.8	-
Beryllium	mg/L	1.5	-	-	-	-	-	0.37	-
Cadmium	mg/L	ND	-	ND	ND	ND	ND	ND	ND
Calcium	mg/L	370000	-	-	-	-	-	449000	-
Chromium	mg/L	18.2	-	ND	ND	ND	-	11.5	ND
Cobalt	mg/L	22.5	-	-	-	-	-	ND	-
Copper	mg/L	12.9	-	-	-	-	-	11.3	-
Iron	mg/L	18500	-	-	-	-	-	462	-
Lead	mg/L	147	-	ND	ND	ND	-	ND	ND
Magnesium	mg/L	41100	-	-	-	-	-	104000	-
Manganese	mg/L	7120	-	626	705	1130	-	491	1380
Mercury	mg/L	0.38	-	-	-	-	-	ND	-
Nickel	mg/L	30.5	-	ND	ND	1.9	-	ND	1.9
Potassium	mg/L	6680	-	-	-	-	-	328000	-
Selenium	mg/L	10	-	-	-	-	-	4.9	-
Silver	mg/L	ND	-	-	-	-	-	3.6	-
Sodium	mg/L	37600	-	-	-	-	-	89200	-
Thallium	mg/L	ND	-	-	-	-	-	ND	-
Vanadium	mg/L	13.3	-	-	-	-	-	7.6	-
Zinc	mg/L	117	-	-	-	-	-	7.2	-
Cyanide	mg/L	4.3	-	-	-	-	-	ND	-
MISCELLANEOUS									
Ethene	mg/L	-	-	ND	ND	ND	ND	ND	ND
Ethane	mg/L	-	-	ND	ND	ND	ND	ND	ND
Methane	mg/L	-	-	0.172	0.018	0.055	0.0034	0.046	0.053
CO2	mg/L	-	-	-	-	-	-	-	-
Ferrous Iron	mg/L	-	-	0.62	0.14	2.13	0.02	0.28	0.99
Sulfide	mg/L	-	-	-	-	-	-	-	-
DOC	mg C/L	-	-	6.7	6.6	10.1	7.3	7.6	8.5
Redox Potential	mV	-	-	191	271	169	400	262	137
Alkalinity (total)	mg CaCO3/L	-	-	248	228	160	202	220	212
Total Organic Halogens/Halides (TOX)	mg/L	-	-	-	-	-	-	-	-
Chloride	mg/L	-	-	253	328	514	414	422	421
Conductivity (field)	µmhos/cm	-	-	1770	2080	2790	2700	2690	3050
Conductivity (lab)	µmhos/cm	-	-	-	-	-	-	-	-
Nitrite Nitrogen	mg/L	-	-	-	-	-	-	-	-
Nitrate/Nitrite Nitrogen	mg/L	-	-	0.01	0.02	0.02	0.09	0.03	0.01
Nitrate as N - Calculation	mg/L	-	-	-	-	-	-	-	-
pH (Lab)	std. units	-	-	-	-	-	-	-	-
pH (field)	std. units	-	-	7.06	6.93	7.11	6.95	7.03	6.95
Sulfate	mg/L	-	-	426	546	943	841	749	816
Total Organic Carbon (TOC)	mg/L	-	-	-	-	3	-	-	-
Temperature (field)	Celcius	-	-	-	-	-	-	-	-
Nephelometric Turbidity Units	NTUs	-	-	-	-	-	-	-	-

MW-45
Ash Landfill

Parameters	Source: Units	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES
		Jul 1993 Phase II RI	Nov 1993 Phase II A RI	Jan 1996 4	Mar 1996 1	June 1996 2	Dec 1996 4	Mar 1997 1	June 1997 2	Mar 1998 1	June 1998 2	Sept 1998 3
VOLATILE ORGANICS		NYSCLP	524.2	524.2	524.2	524.2	524.2	524.2	524.2	524.2	524.2	524.2
Chloromethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	µg/L	ND	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	0.79	ND	ND
Bromoform	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl Ether	µg/L	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene (total)	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-Pentanone	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Hexanone	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylene (total)	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Volatile Organics	µg/L	0	0.5	0	0	0	0	0	0	0.79	0	0

MW-45
Ash Landfill

Parameters	Source: Units	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES
		Jul 1993 Phase II RI	Nov 1993 Phase III RI	Jan 1996 4	Mar 1996 1	June 1996 2	Dec 1996 4	Mar 1997 1	June 1997 2	Mar 1998 1	June 1998 2	Sept 1998 3
METALS												
Aluminum	mg/L	21300	-	-	-	-	-	-	-	-	81.2	81.2
Antimony	mg/L	ND	-	-	-	-	-	-	-	-	ND	ND
Arsenic	mg/L	2.7	-	-	-	-	-	-	-	-	ND	-
Barium	mg/L	243	-	-	-	-	-	-	-	-	42.9	-
Beryllium	mg/L	1.6	-	-	-	-	-	-	-	-	ND	-
Cadmium	mg/L	ND	-	-	-	-	ND	ND	ND	-	ND	ND
Calcium	mg/L	181000	-	-	-	-	-	-	-	104000	-	-
Chromium	mg/L	29.1	-	-	-	-	ND	ND	ND	-	ND	ND
Cobalt	mg/L	28.3	-	-	-	-	-	-	-	-	ND	-
Copper	mg/L	8.7	-	-	-	-	-	-	-	-	ND	-
Iron	mg/L	30100	-	-	-	-	-	-	-	-	166	-
Lead	mg/L	5.8	-	-	-	-	ND	ND	ND	-	ND	ND
Magnesium	mg/L	22100	-	-	-	-	-	-	-	12300	-	-
Manganese	mg/L	1010	-	-	-	-	24.7	19.6	25	-	ND	11
Mercury	mg/L	0.18	-	-	-	-	-	-	-	-	ND	-
Nickel	mg/L	45.3	-	-	-	-	ND	ND	ND	-	ND	ND
Potassium	mg/L	6220	-	-	-	-	-	-	-	-	721	-
Selenium	mg/L	0.99	-	-	-	-	-	-	-	-	ND	-
Silver	mg/L	ND	-	-	-	-	-	-	-	-	ND	-
Sodium	mg/L	8420	-	-	-	-	-	-	-	10400	-	-
Thallium	mg/L	ND	-	-	-	-	-	-	-	-	ND	-
Vanadium	mg/L	26.2	-	-	-	-	-	-	-	-	ND	-
Zinc	mg/L	116	-	-	-	-	-	-	-	-	6.1	-
Cyanide	mg/L	1.3	-	-	-	-	-	-	-	-	ND	-
MISCELLANEOUS												
Ethene	mg/L	-	-	-	-	-	ND	ND	ND	ND	ND	ND
Ethane	mg/L	-	-	-	-	-	ND	ND	ND	ND	ND	ND
Methane	mg/L	-	-	-	-	-	0.0016	ND	0.0027	ND	0.0018	ND
CO2	mg/L	-	-	-	-	-	-	-	-	-	-	-
Ferrous Iron	mg/L	-	-	-	-	-	ND	0.02	0.27	0.04	0.03	0.18
Sulfide	mg/L	-	-	-	-	-	-	-	-	-	-	-
DOC	mg C/L	-	-	-	-	-	1.7	1.7	2.2	1.7	2.1	5.9
Redox Potential	mV	-	-	-	-	-	234	265	240	423	248	222
Alkalinity (total)	mg CaCO3/L	-	-	-	-	-	250	294	336	264	280	312
Total Organic Halogens/Halides (TOX)	mg/L	-	-	-	-	-	-	-	-	-	-	-
Chloride	mg/L	-	-	-	-	-	13.3	12.6	12	11.3	10.1	9.7
Conductivity (field)	µmhos/cm	-	-	-	-	-	547	592	617	516	589	606
Conductivity (lab)	µmhos/cm	-	-	-	-	-	-	-	-	-	-	-
Nitrite Nitrogen	mg/L	-	-	-	-	-	-	-	-	-	-	-
Nitrate/Nitrite Nitrogen	mg/L	-	-	-	-	-	0.04	0.01	0.03	0.03	0.01	0.01
Nitrate as N - Calculation	mg/L	-	-	-	-	-	-	-	-	-	-	-
pH (Lab)	std. units	-	-	-	-	-	-	-	-	-	-	-
pH (field)	std. units	-	-	-	-	-	6.79	6.8	6.94	6.69	6.9	6.9
Sulfate	mg/L	-	-	-	-	-	32.4	28.9	28.1	39.4	28.4	28.1
Total Organic Carbon (TOC)	mg/L	-	-	-	-	-	-	-	-	-	-	-
Temperature (field)	Celsius	-	-	-	-	-	-	-	-	-	-	-
Nephelometric Turbidity Units	NTUs	-	-	-	-	-	-	-	-	-	-	-

MW-46
Ash Landfill

Parameters	Source: Units	PES	PES	PES	PES	PES	PES	PES	PES
		Jul 1993	Nov 1993	Dec 1996	Mar 1997	June 1997	Mar 1998	June 1998	Sept 1998
		Phase II RI	Phase IIA RI	4	1	2	1	2	3
VOLATILE ORGANICS		NYSCLP	NYSCLP	NYSCLP	NYSCLP	NYSCLP	NYSCLP	NYSCLP	NYSCLP
Chloromethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	µg/L	ND	ND	ND	ND	ND	0.3	0.52	0.52
Chloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	µg/L	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	µg/L	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	µg/L	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	µg/L	47	120	25	22	26	34	35	35
Dibromochloromethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	µg/L	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	µg/L	ND	1	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	µg/L	ND	ND	ND	ND	ND	0.2	0.2	0.2
Chlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl Ether	µg/L	-	-	-	-	-	-	-	-
1,3-Dichlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene (total)	µg/L	120	82	84	65	140	65	3.6	102.4
cis-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	-	100
trans-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	-	2.4
Trichlorofluoromethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	µg/L	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	µg/L	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-Pentanone	µg/L	ND	ND	ND	ND	ND	ND	ND	ND
2-Hexanone	µg/L	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND
Xylene (total)	µg/L	ND	ND	ND	ND	ND	ND	ND	ND
Total Volatile Organics	µg/L	167	203	109	87	166	99.5	39	241

MW-46
Ash Landfill

Parameters	Source: Units	PES	PES	PES	PES	PES	PES	PES	PES
		Jul 1993	Nov 1993	Dec 1996	Mar 1997	June 1997	Mar 1998	June 1998	Sept 1998
		Phase II RI	Phase II A RI	4	1	2	1	2	3
METALS									
Aluminum	mg/L	17900	-	-	-	-	104	-	-
Antimony	mg/L	49.6	-	-	-	-	ND	-	-
Arsenic	mg/L	1.7	-	-	-	-	ND	-	-
Barium	mg/L	214	-	-	-	-	57	-	-
Beryllium	mg/L	ND	-	-	-	-	ND	-	-
Cadmium	mg/L	ND	-	-	-	-	ND	-	-
Calcium	mg/L	153000	-	-	-	-	155000	-	-
Chromium	mg/L	27.5	-	-	-	-	3.3	-	-
Cobalt	mg/L	11.2	-	-	-	-	ND	-	-
Copper	mg/L	18	-	-	-	-	4.7	-	-
Iron	mg/L	23400	-	-	-	-	284	-	-
Lead	mg/L	8.3	-	-	-	-	ND	-	-
Magnesium	mg/L	18700	-	-	-	-	19000	-	-
Manganese	mg/L	614	-	-	-	-	23.2	-	-
Mercury	mg/L	0.09	-	-	-	-	ND	-	-
Nickel	mg/L	30	-	-	-	-	ND	-	-
Potassium	mg/L	4730	-	-	-	-	1000	-	-
Selenium	mg/L	1.5	-	-	-	-	ND	-	-
Silver	mg/L	ND	-	-	-	-	ND	-	-
Sodium	mg/L	11000	-	-	-	-	13800	-	-
Thallium	mg/L	ND	-	-	-	-	ND	-	-
Vanadium	mg/L	27.3	-	-	-	-	ND	-	-
Zinc	mg/L	59.2	-	-	-	-	4.6	-	-
Cyanide	mg/L	4.4	-	-	-	-	ND	-	-
MISCELLANEOUS									
Ethene	mg/L	-	-	ND	ND	ND	ND	ND	ND
Ethane	mg/L	-	-	ND	ND	ND	ND	ND	ND
Methane	mg/L	-	-	0.0072	0.009	0.045	0.0047	0.0045	0.003
CO2	mg/L	-	-	-	-	-	-	-	-
Ferrous Iron	mg/L	-	-	0.01	0.04	0.3	0.05	0.07	0.38
Sulfide	mg/L	-	-	-	-	-	-	-	-
DOC	mg C/L	-	-	2	1.9	2.6	2.6	3	2.7
Redox Potential	mV	-	-	303	254	228	196	128	176
Alkalinity (total)	mg CaCO3/L	-	-	346	336	332	276	300	350
Total Organic Halogens/Halides (TOX)	mg/L	-	-	-	-	-	-	-	-
Chloride	mg/L	-	-	22	21.3	22.1	31.7	16.2	13.4
Conductivity (field)	µmhos/cm	-	-	760	758	720	748	746	778
Conductivity (lab)	µmhos/cm	-	-	-	-	-	-	-	-
Nitrite Nitrogen	mg/L	-	-	-	-	-	-	-	-
Nitrate/Nitrite Nitrogen	mg/L	-	-	0.01	0.01	0.02	<0.01	0.01	0.01
Nitrate as N - Calculation	mg/L	-	-	-	-	-	-	-	-
pH (Lab)	std. units	-	-	-	-	-	-	-	-
pH (field)	std. units	-	-	6.71	6.69	6.79	6.66	6.72	6.75
Sulfate	mg/L	-	-	77.4	79.1	66.8	144	72.7	58
Total Organic Carbon (TOC)	mg/L	-	-	-	-	-	-	-	-
Temperature (field)	Celsius	-	-	-	-	-	-	-	-
Nephelometric Turbidity Units	NTUs	-	-	-	-	-	-	-	-

MW-48
Ash Landfill

Parameters	Source: Units	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES
		Jul 1993	Nov 1993	Jan 1996	Mar 1996	June 1996	Dec 1996	Mar 1997	June 1997	Mar 1998	June 1998	Sept 1998
		Phase II RI	Phase II RI	4	1	2	4	1	2	1	2	3
VOLATILE ORGANICS		NYSLCP	524.2	524.2	524.2	524.2	524.2	524.2	524.2	524.2	524.2	524.2
Chloromethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl Ether	µg/L	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	-	ND	ND	ND	ND
1,2-Dichloroethene (total)	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	µg/L	ND	ND	ND	ND	ND	ND	0.86	ND	ND	ND	ND
trans-1,2-Dichloroethene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-Pentanone	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Hexanone	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylene (total)	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Volatile Organics	µg/L	0	0	0	0	0	0	0.86	0	0	0	0

MW-48
Ash Landfill

Parameters	Source: Units	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES
		Jul 1993 Phase II RI	Nov 1993 Phase IIA RI	Jan 1996 4	Mar 1996 1	June 1996 2	Dec 1996 4	Mar 1997 1	June 1997 2	Mar 1998 1	June 1998 2	Sept 1998 3
METALS												
Aluminum	mg/L	22700	-	-	-	-	-	-	-	-	113	-
Antimony	mg/L	ND	-	-	-	-	-	-	-	-	ND	-
Arsenic	mg/L	3.9	-	-	-	-	-	-	-	-	ND	-
Barium	mg/L	259	-	-	-	-	-	-	-	-	27.2	-
Beryllium	mg/L	1.8	-	-	-	-	-	-	-	-	ND	-
Cadmium	mg/L	ND	-	-	-	-	-	-	-	-	ND	-
Calcium	mg/L	202000	-	-	-	-	-	-	-	-	80000	-
Chromium	mg/L	36.2	-	-	-	-	-	-	-	-	ND	-
Cobalt	mg/L	27.8	-	-	-	-	-	-	-	-	ND	-
Copper	mg/L	14.4	-	-	-	-	-	-	-	-	ND	-
Iron	mg/L	347000	-	-	-	-	-	-	-	-	205	-
Lead	mg/L	22	-	-	-	-	-	-	-	-	ND	-
Magnesium	mg/L	258000	-	-	-	-	-	-	-	-	10000	-
Manganese	mg/L	1230	-	-	-	-	-	-	-	-	ND	-
Mercury	mg/L	2.3	-	-	-	-	-	-	-	-	ND	-
Nickel	mg/L	50	-	-	-	-	-	-	-	-	ND	-
Potassium	mg/L	5520	-	-	-	-	-	-	-	-	1120	-
Selenium	mg/L	10	-	-	-	-	-	-	-	-	ND	-
Silver	mg/L	ND	-	-	-	-	-	-	-	-	ND	-
Sodium	mg/L	10400	-	-	-	-	-	-	-	-	7680	-
Thallium	mg/L	ND	-	-	-	-	-	-	-	-	ND	-
Vanadium	mg/L	29.4	-	-	-	-	-	-	-	-	ND	-
Zinc	mg/L	149	-	-	-	-	-	-	-	-	ND	-
Cyanide	mg/L	ND	-	-	-	-	-	-	-	-	ND	-
MISCELLANEOUS												
Ethene	mg/L	-	-	-	-	-	-	ND	ND	ND	ND	ND
Ethane	mg/L	-	-	-	-	-	-	ND	ND	ND	ND	ND
Methane	mg/L	-	-	-	-	-	-	0.02	ND	0.0066	ND	ND
CO2	mg/L	-	-	-	-	-	-	-	-	-	-	-
Ferrous Iron	mg/L	-	-	-	-	-	-	ND	0.01	0.39	0.02	0.04
Sulfide	mg/L	-	-	-	-	-	-	-	-	-	-	-
DOC	mg C/L	-	-	-	-	-	-	2.3	2.1	3.4	2.5	3.5
Redox Potential	mV	-	-	-	-	-	-	261	299	265	288	280
Alkalinity (total)	mg CaCO3/L	-	-	-	-	-	-	250	254	336	198	280
Total Organic Halogens/Halides (TOX)	mg/L	-	-	-	-	-	-	-	-	-	-	-
Chloride	mg/L	-	-	-	-	-	-	12.4	12.6	11	7.6	5.7
Conductivity (field)	µmbhos/cm	-	-	-	-	-	-	547	528	539	389	566
Conductivity (lab)	µmbhos/cm	-	-	-	-	-	-	-	-	-	-	-
Nitrite Nitrogen	mg/L	-	-	-	-	-	-	-	-	-	-	-
Nitrate/Nitrite Nitrogen	mg/L	-	-	-	-	-	-	0.04	0.06	0.05	0.04	0.01
Nitrate as N - Calculation	mg/L	-	-	-	-	-	-	-	-	-	-	-
pH (Lab)	std. units	-	-	-	-	-	-	-	-	-	-	-
pH (field)	std. units	-	-	-	-	-	-	6.92	6.88	6.92	6.93	6.86
Sulfate	mg/L	-	-	-	-	-	-	37.9	32.9	24.1	31.2	28.4
Total Organic Carbon (TOC)	mg/L	-	-	-	-	-	-	-	-	-	-	-
Temperature (field)	Celcius	-	-	-	-	-	-	-	-	-	-	-
Nephelometric Turbidity Units	NTUs	-	-	-	-	-	-	-	-	-	-	-

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Ash Landfill

Parameters	Source: Units	PES		PES	PES	PES	PES	PES	PES	PES	PES	PES	PES
		Jul 1993	Nov 1993	Jan 1996	Mar 1996	June 1996	Sept 1996	Dec 1996	Mar 1997	June 1997	March 1998	June 1998	Sept 1998
		Phase II RI	Phase II RI	4	1	2	3	4	1	2	1	2	3
VOLATILE ORGANICS		NYSCLP	524.2	524.2	524.2	524.2	524.2	524.2	524.2	524.2	524.2	524.2	524.2
Chloromethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	µg/L	ND	ND	ND	0.4	0.4	-	ND	ND	ND	ND	ND	ND
Chlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl Ether	µg/L	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene (total)	µg/L	-	-	-	-	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	µg/L	ND	0.2	0.5	0.8	1	2	1	ND	1.6	0.68	1.3	1.3
trans-1,2-Dichloroethene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-Pentanone	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Hexanone	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylene (total)	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Volatile Organics	µg/L	0	0.2	0.5	1.2	1.4	2	1	0	1.6	0.68	1.3	1.3

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Ash Landfill

Parameters	Source: Units	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES
		Jul 1993 Phase II RI	Nov 1993 Phase II RI	Jan 1996 4	Mar 1996 1	June 1996 2	Sept 1996 3	Dec 1996 4	Mar 1997 1	June 1997 2	March 1998 1	June 1998 2	Sept 1998 3
METALS													
Aluminum	mg/L	228000	-	-	-	-	-	-	-	-	-	-	-
Antimony	mg/L	191	-	-	-	-	-	-	-	-	-	-	-
Arsenic	mg/L	1.4	-	-	-	-	-	-	-	-	-	-	-
Barium	mg/L	1460	-	-	-	-	-	-	-	-	-	-	-
Beryllium	mg/L	11.7	-	-	-	-	-	-	-	-	-	-	-
Cadmium	mg/L	ND	-	-	-	-	-	-	-	-	-	-	-
Calcium	mg/L	287000	-	-	-	-	-	-	-	-	-	-	-
Chromium	mg/L	351	-	-	-	-	-	-	-	-	-	-	-
Cobalt	mg/L	201	-	-	-	-	-	-	-	-	-	-	-
Copper	mg/L	272	-	-	-	-	-	-	-	-	-	-	-
Iron	mg/L	379000	-	-	-	-	-	-	-	-	-	-	-
Lead	mg/L	44.3	-	-	-	-	-	-	-	-	-	-	-
Magnesium	mg/L	100000	-	-	-	-	-	-	-	-	-	-	-
Manganese	mg/L	10600	-	-	-	-	-	-	-	-	-	-	-
Mercury	mg/L	0.13	-	-	-	-	-	-	-	-	-	-	-
Nickel	mg/L	533	-	-	-	-	-	-	-	-	-	-	-
Potassium	mg/L	24800	-	-	-	-	-	-	-	-	-	-	-
Selenium	mg/L	1.5	-	-	-	-	-	-	-	-	-	-	-
Silver	mg/L	5.4	-	-	-	-	-	-	-	-	-	-	-
Sodium	mg/L	19500	-	-	-	-	-	-	-	-	-	-	-
Thallium	mg/L	ND	-	-	-	-	-	-	-	-	-	-	-
Vanadium	mg/L	317	-	-	-	-	-	-	-	-	-	-	-
Zinc	mg/L	1100	-	-	-	-	-	-	-	-	-	-	-
Cyanide	mg/L	10	-	-	-	-	-	-	-	-	-	-	-
MISCELLANEOUS													
Ethene	mg/L	-	-	-	-	-	-	ND	ND	ND	ND	ND	ND
Ethane	mg/L	-	-	-	-	-	-	ND	ND	ND	ND	ND	ND
Methane	mg/L	-	-	-	-	-	-	0.0026	0.014	0.061	ND	ND	0.014
CO2	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Ferrous Iron	mg/L	-	-	-	-	-	-	0.01	0.04	0.43	0.13	0.01	0.01
Sulfide	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
DOC	mg C/L	-	-	-	-	-	-	1.2	1.6	2.1	1.7	1.4	2.1
Redox Potential	mV	-	-	-	-	-	-	328	302	232	305	320	310
Alkalinity (total)	mg CaCO3/L	-	-	-	-	-	-	276	272	316	246	255	284
Total Organic Halogens/Halides (TOX)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Chloride	mg/L	-	-	-	-	-	-	14	19.1	32	18.4	16.8	24.9
Conductivity (field)	µmhos/cm	-	-	-	-	-	-	633	654	1325	584	682	801
Conductivity (lab)	µmhos/cm	-	-	-	-	-	-	-	-	-	-	-	-
Nitrite Nitrogen	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Nitrate/Nitrite Nitrogen	mg/L	-	-	-	-	-	-	0.56	0.45	0.45	1.39	0.66	0.31
Nitrate as N - Calculation	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
pH (Lab)	std. units	-	-	-	-	-	-	-	-	-	-	-	-
pH (field)	std. units	-	-	-	-	-	-	6.71	6.72	6.72	6.73	6.84	6.77
Sulfate	mg/L	-	-	-	-	-	-	53.4	73.4	107	61.3	80.3	118
Total Organic Carbon (TOC)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Temperature (field)	Celcius	-	-	-	-	-	-	-	-	-	-	-	-
Nephelometric Turbidity Units	NTUs	-	-	-	-	-	-	-	-	-	-	-	-

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Ash Landfill

Parameters	Source: Units	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES
		Mar 1994 Phase 2 RI	Jan 1996 4	Mar 1996 1	June 1996 2	Sept 1996 3	Dec 1996 4	Mar 1997 1	June 1997 2	March 1998 1	June 1998 2	Sept 1998 3
VOLATILE ORGANICS		NYSLCP	524.2	524.2	524.2	524.2	524.2	524.2	524.2	524.2	524.2	524.2
Chloromethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl Ether	µg/L	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene (total)	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-Pentanone	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Hexanone	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylene (total)	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Volatile Organics	µg/L	0	0	0	0	0	0	0	0	0	0	0

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Ash Landfill

Parameters	Source: Units	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES
		Mar 1994 Phase 2 RI	Jan 1996 4	Mar 1996 1	June 1996 2	Sept 1996 3	Dec 1996 4	Mar 1997 1	June 1997 2	March 1998 1	June 1998 2	Sept 1998 3
METALS												
Aluminum	mg/L	247	-	-	-	-	-	-	-	-	-	-
Antimony	mg/L	ND	-	-	-	-	-	-	-	-	-	-
Arsenic	mg/L	ND	-	-	-	-	-	-	-	-	-	-
Barium	mg/L	101	-	-	-	-	-	-	-	-	-	-
Beryllium	mg/L	ND	-	-	-	-	-	-	-	-	-	-
Cadmium	mg/L	ND	-	-	-	-	-	-	-	-	-	-
Calcium	mg/L	208000	-	-	-	-	-	-	-	-	-	-
Chromium	mg/L	0.5	-	-	-	-	-	-	-	-	-	-
Cobalt	mg/L	0.87	-	-	-	-	-	-	-	-	-	-
Copper	mg/L	1.5	-	-	-	-	-	-	-	-	-	-
Iron	mg/L	505	-	-	-	-	-	-	-	-	-	-
Lead	mg/L	ND	-	-	-	-	-	-	-	-	-	-
Magnesium	mg/L	43300	-	-	-	-	-	-	-	-	-	-
Manganese	mg/L	79.1	-	-	-	-	-	-	-	-	-	-
Mercury	mg/L	ND	-	-	-	-	-	-	-	-	-	-
Nickel	mg/L	2.1	-	-	-	-	-	-	-	-	-	-
Potassium	mg/L	1570	-	-	-	-	-	-	-	-	-	-
Selenium	mg/L	ND	-	-	-	-	-	-	-	-	-	-
Silver	mg/L	ND	-	-	-	-	-	-	-	-	-	-
Sodium	mg/L	38300	-	-	-	-	-	-	-	-	-	-
Thallium	mg/L	ND	-	-	-	-	-	-	-	-	-	-
Vanadium	mg/L	0.86	-	-	-	-	-	-	-	-	-	-
Zinc	mg/L	2.8	-	-	-	-	-	-	-	-	-	-
Cyanide	mg/L	ND	-	-	-	-	-	-	-	-	-	-
MISCELLANEOUS												
Ethene	mg/L	-	-	-	-	-	ND	ND	ND	ND	ND	ND
Ethane	mg/L	-	-	-	-	-	ND	ND	ND	ND	ND	ND
Methane	mg/L	-	-	-	-	-	0.003	0.014	0.061	0.061	ND	0.01
CO2	mg/L	-	-	-	-	-	-	-	-	-	-	-
Ferrous Iron	mg/L	-	-	-	-	-	0	0.01	0.03	0.03	0.03	0.03
Sulfide	mg/L	-	-	-	-	-	-	-	-	-	-	-
DOC	mg C/L	-	-	-	-	-	4.4	5.1	5.8	5.8	4.5	5.9
Redox Potential	mV	-	-	-	-	-	346	211	270	270	299	85
Alkalinity (total)	mg CaCO3/L	-	-	-	-	-	576	585	640	640	516	656
Total Organic Halogens/Halides (TOX)	mg/L	-	-	-	-	-	-	-	-	-	-	-
Chloride	mg/L	-	-	-	-	-	36.1	30.3	25.2	25.2	23.9	27.8
Conductivity (field)	µmhos/cm	-	-	-	-	-	446	1257	1325	1325	2000	1394
Conductivity (lab)	µmhos/cm	-	-	-	-	-	-	-	-	-	-	-
Nitrite Nitrogen	mg/L	-	-	-	-	-	-	-	-	-	-	-
Nitrate/Nitrite Nitrogen	mg/L	-	-	-	-	-	0.17	0.27	0.01	0.01	0.02	0.01
Nitrate as N - Calculation	mg/L	-	-	-	-	-	-	-	-	-	-	-
pH (Lab)	std. units	-	-	-	-	-	-	-	-	-	-	-
pH (field)	std. units	-	-	-	-	-	6.45	6.47	6.47	6.47	6.47	6.63
Sulfate	mg/L	-	-	-	-	-	180	154	131	131	172	125
Total Organic Carbon (TOC)	mg/L	-	-	-	-	-	-	-	-	-	-	-
Temperature (field)	Celcius	-	-	-	-	-	-	-	-	-	-	-
Nephelometric Turbidity Units	NTUs	-	-	-	-	-	-	-	-	-	-	-

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Ash Landfill

Parameters	Source: Units	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES
		Mar 1994 Phase 2 RI	Jan 1996 4	Mar 1996 1	June 1996 2	Sept 1996 3	Dec 1996 4	Mar 1997 1	June 1997 2	Mar 1998 1	June 1998 2	Sept 1998 3
VOLATILE ORGANICS		NYSCLP	524.2	524.2	524.2	524.2	524.2	524.2	524.2	524.2	524.2	524.2
Chloromethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl Ether	µg/L	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene (total)	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-Pentanone	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Hexanone	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylene (total)	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Volatile Organics	µg/L	0	0	0	0	0	0	0	0	0	0	0

MW-60
Ash Landfill

Parameters	Source: Units	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES
		Mar 1994 Phase 2 RI	Jan 1996 4	Mar 1996 1	June 1996 2	Sept 1996 3	Dec 1996 4	Mar 1997 1	June 1997 2	Mar 1998 1	June 1998 2	Sept 1998 3	
METALS													
Aluminum	mg/L	75.4	-	-	-	-	-	-	-	-	-	-	-
Antimony	mg/L	ND	-	-	-	-	-	-	-	-	-	-	-
Arsenic	mg/L	ND	-	-	-	-	-	-	-	-	-	-	-
Barium	mg/L	30.6	-	-	-	-	-	-	-	-	-	-	-
Beryllium	mg/L	ND	-	-	-	-	-	-	-	-	-	-	-
Cadmium	mg/L	0.12	-	-	-	-	-	-	-	-	-	-	-
Calcium	mg/L	97400	-	-	-	-	-	-	-	-	-	-	-
Chromium	mg/L	ND	-	-	-	-	-	-	-	-	-	-	-
Cobalt	mg/L	0.6	-	-	-	-	-	-	-	-	-	-	-
Copper	mg/L	1.2	-	-	-	-	-	-	-	-	-	-	-
Iron	mg/L	120	-	-	-	-	-	-	-	-	-	-	-
Lead	mg/L	ND	-	-	-	-	-	-	-	-	-	-	-
Magnesium	mg/L	13400	-	-	-	-	-	-	-	-	-	-	-
Manganese	mg/L	17.7	-	-	-	-	-	-	-	-	-	-	-
Mercury	mg/L	ND	-	-	-	-	-	-	-	-	-	-	-
Nickel	mg/L	1.1	-	-	-	-	-	-	-	-	-	-	-
Potassium	mg/L	490	-	-	-	-	-	-	-	-	-	-	-
Selenium	mg/L	ND	-	-	-	-	-	-	-	-	-	-	-
Silver	mg/L	ND	-	-	-	-	-	-	-	-	-	-	-
Sodium	mg/L	8180	-	-	-	-	-	-	-	-	-	-	-
Thallium	mg/L	ND	-	-	-	-	-	-	-	-	-	-	-
Vanadium	mg/L	0.81	-	-	-	-	-	-	-	-	-	-	-
Zinc	mg/L	1.8	-	-	-	-	-	-	-	-	-	-	-
Cyanide	mg/L	ND	-	-	-	-	-	-	-	-	-	-	-
MISCELLANEOUS													
Ethene	mg/L	-	-	-	-	-	-	ND	ND	ND	ND	ND	ND
Ethane	mg/L	-	-	-	-	-	-	ND	ND	ND	ND	ND	ND
Methane	mg/L	-	-	-	-	-	-	0.0031	0.0012	0.0012	ND	ND	0.015
CO2	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Ferrous Iron	mg/L	-	-	-	-	-	-	0	0.02	0.24	0.01	0.08	0.06
Sulfide	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
DOC	mg C/L	-	-	-	-	-	-	1.9	2.5	3.2	1.8	2.7	4.1
Redox Potential	mV	-	-	-	-	-	-	317	253	239	285	216	163
Alkalinity (total)	mg CaCO3/L	-	-	-	-	-	-	310	278	356	220	297	422
Total Organic Halogens/Halides (TOX)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Chloride	mg/L	-	-	-	-	-	-	18.5	23.3	22.6	19.8	13.4	17.9
Conductivity (field)	µmhos/cm	-	-	-	-	-	-	653	602	762	519	647	910
Conductivity (lab)	µmhos/cm	-	-	-	-	-	-	-	-	-	-	-	-
Nitrite Nitrogen	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Nitrate/Nitrite Nitrogen	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Nitrate as N - Calculation	mg/L	-	-	-	-	-	-	0.01	0.02	0.01	0.02	0.01	0.01
pH (Lab)	std. units	-	-	-	-	-	-	-	-	-	-	-	-
pH (field)	std. units	-	-	-	-	-	-	6.81	6.71	6.64	4.37	6.84	6.72
Sulfate	mg/L	-	-	-	-	-	-	40.3	29.7	37.3	29.00	28.00	67.50
Total Organic Carbon (TOC)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Temperature (field)	Celcius	-	-	-	-	-	-	-	-	-	-	-	-
Nephelometric Turbidity Units	NTUs	-	-	-	-	-	-	-	-	-	-	-	-

APPENDIX C

Laboratory Analytical Packages with QA/QC Data

1. Sample Delivery Group No. 70741
 - A. Indicator Parameters
 - B. Metals
 - C. TCL Volatile Organics

2. Sample Delivery Group No. 70740
 - A. Indicator Parameters
 - B. Metals
 - C. Volatile Organics (524.2)

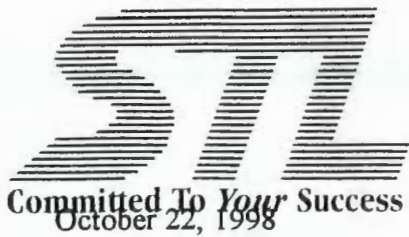
3. Evergreen Analytical
 - A. Methane, Ethane, Ethene

1. Sample Delivery Group No. 70741



SAMPLE DATA SUMMARY PACKAGE

CONTRACT: 98011
CASE NO: 98011
SDG NO: 70741



Severn Trent Laboratories

55 South Park Drive
Colchester VT 05446

Tel: (802) 655-1203

Fax: (802) 655-1248

Mr. Mike Duchesneau
Parsons Engineering Science
30 Dan Road
Canton, MA 02021

Re: Laboratory Project No. 98011
Project Name: ASH Quarterly 98
Case No.: 98011; SDG 70741

Dear Mr. Duchesneau:

Enclosed are the analytical results of samples received by Severn Trent Laboratories on September 22 and 23, 1998. Laboratory numbers have been assigned and designated as follows:

<u>Lab ID</u>	<u>Client Sample ID</u>	<u>Sample Date</u>	<u>Sample Matrix</u>
Received: 09/22/98 ETR No: 70741			
366810	AL207	09/20/98	Water
366811	AL207F	09/20/98	Filtrate
366812	AL208	09/20/98	Water
366813	AL208F	09/20/98	Filtrate
366814	AL210	09/20/98	Water
366815	AL210F	09/20/98	Filtrate
366816	AL211	09/20/98	Water
366817	AL211F	09/20/98	Filtrate

<u>Lab ID</u>	<u>Client Sample ID</u>	<u>Sample Date</u>	<u>Sample Matrix</u>
Received: 09/23/98 ETR No: 70759			
366946	AL811	09/21/98	Water
366947	AL815	09/21/98	Water
366948	AL213	09/21/98	Water

001

Other Laboratory Locations:

- 149 Rangeway Road, North Billerica MA 01852
- 16203 Park Row, Suite 110, Houston TX 77084
- 200 Monroe Turnpike, Monroe CT 06468
- 120 Southcenter Court, Suite 300, Morrisville NC 27560

- 315 Fullerton Avenue, Newburgh NY 12550
- 11 East Olive Road, Pensacola FL 32514
- Westfield Executive Park, 53 Southampton Road, Westfield MA 01085
- 628 Route 10, Whippany NJ 07981

a part of



Received: 09/23/98 ETR No: 70759 (continued)

<u>Lab ID</u>	<u>Client Sample ID</u>	<u>Sample Date</u>	<u>Sample Matrix</u>
366948MS	AL213MS	09/21/98	Water
366948MD	AL213MSD	09/21/98	Water
366949	AL213F	09/21/98	Filtrate
366950	AL814	09/21/98	Water
366951	AL814F	09/21/98	Filtrate
366952	AL212	09/21/98	Water
366953	AL212F	09/21/98	Filtrate
366954	AL812	09/21/98	Water
366955	AL812F	09/21/98	Filtrate
366956	AL813	09/21/98	Water
366957	AL205F	09/21/98	Filtrate

Please note that the nitrate / nitrite analysis of samples labeled AL13, AL213 MS, AL814, AL212 and AL9812 were performed fourteen days outside the method specified holding time.

The initial volatile organic analysis of sample labeled AL210 exhibited surrogate 4-bromofluorobenzene recoveries outside quality control limits. This sample was reanalyzed yielding similar results. Both sets of data have been provided in this case submittal. Please note that the volatile organic analyses of samples labeled AL207 and AL208 exhibited concentrations of cis-1,2-dichloroethene and trichloroethene above the upper end of the calibration range. These samples were note re-analyzed as a result of the elapsed holding time. Please note that the laboratory has provided the volatile organic screen results for these samples in which the concentration of these analytes were comparable.

If there are any questions regarding this submittal, please contact Chris A. Ouellette at (802) 655-1203.

Sincerely,

Deborah A. Loring
Laboratory Director

DAL/mim

002





FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL207

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70741

Matrix: (soil/water) WATER Lab Sample ID: 366810

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V366810DV

Level: (low/med) LOW Date Received: 09/22/98

% Moisture: not dec. _____ Date Analyzed: 09/27/98

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 8.8

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

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	8.8	U
74-83-9	Bromomethane	8.8	U
75-01-4	Vinyl Chloride	47	
75-00-3	Chloroethane	8.8	U
75-09-2	Methylene Chloride	18	U
67-64-1	Acetone	44	U
75-15-0	Carbon Disulfide	8.8	U
75-35-4	1,1-Dichloroethene	8.8	U
75-34-3	1,1-Dichloroethane	8.8	U
156-59-2	cis-1,2-Dichloroethene	2300	E
156-60-5	trans-1,2-Dichloroethene	18	
67-66-3	Chloroform	8.8	U
107-06-2	1,2-Dichloroethane	8.8	U
78-93-3	2-Butanone	44	U
74-97-5	Bromochloromethane	8.8	U
71-55-6	1,1,1-Trichloroethane	8.8	U
56-23-5	Carbon Tetrachloride	8.8	U
75-27-4	Bromodichloromethane	8.8	U
78-87-5	1,2-Dichloropropane	8.8	U
10061-01-5	cis-1,3-Dichloropropene	8.8	U
79-01-6	Trichloroethene	1300	E
124-48-1	Dibromochloromethane	8.8	U
79-00-5	1,1,2-Trichloroethane	8.8	U
71-43-2	Benzene	8.8	U
10061-02-6	trans-1,3-Dichloropropene	8.8	U
75-25-2	Bromoform	8.8	U
108-10-1	4-Methyl-2-Pentanone	44	U
591-78-6	2-Hexanone	44	U
127-18-4	Tetrachloroethene	8.8	U
79-34-5	1,1,2,2-Tetrachloroethane	8.8	U
106-93-4	1,2-Dibromoethane	8.8	U
108-88-3	Toluene	8.8	U
108-90-7	Chlorobenzene	8.8	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL207

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70741

Matrix: (soil/water) WATER Lab Sample ID: 366810

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V366810DV

Level: (low/med) LOW Date Received: 09/22/98

% Moisture: not dec. _____ Date Analyzed: 09/27/98

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 8.8

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L		Q
100-41-4-----	Ethylbenzene	8.8	U	
100-42-5-----	Styrene	8.8	U	
1330-20-7-----	Xylene (total)	8.8	U	
541-73-1-----	1,3-Dichlorobenzene	8.8	U	
106-46-7-----	1,4-Dichlorobenzene	8.8	U	
95-50-1-----	1,2-Dichlorobenzene	8.8	U	
96-12-8-----	1,2-Dibromo-3-chloropropane	8.8	U	

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

ENGSC2 SAMPLE NO.

AL207

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70741

Matrix: (soil/water) WATER Lab Sample ID: 366810

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V366810DV

Level: (low/med) LOW Date Received: 09/22/98

% Moisture: not dec. _____ Date Analyzed: 09/27/98

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 8.8

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

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
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FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL208

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70741

Matrix: (soil/water) WATER Lab Sample ID: 366812

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V366812V

Level: (low/med) LOW Date Received: 09/22/98

% Moisture: not dec. _____ Date Analyzed: 09/27/98

GC Column: DB-624 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	1.0	U
74-83-9	Bromomethane	1.0	U
75-01-4	Vinyl Chloride	1.0	U
75-00-3	Chloroethane	1.0	U
75-09-2	Methylene Chloride	2.0	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon Disulfide	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
156-59-2	cis-1,2-Dichloroethene	100	E
156-60-5	trans-1,2-Dichloroethene	2.4	
67-66-3	Chloroform	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
75-27-4	Bromodichloromethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
79-01-6	Trichloroethene	19	
124-48-1	Dibromochloromethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
71-43-2	Benzene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-25-2	Bromoform	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
591-78-6	2-Hexanone	5.0	U
127-18-4	Tetrachloroethene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U
108-88-3	Toluene	1.0	U
108-90-7	Chlorobenzene	1.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL208

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70741

Matrix: (soil/water) WATER Lab Sample ID: 366812

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V366812V

Level: (low/med) LOW Date Received: 09/22/98

% Moisture: not dec. _____ Date Analyzed: 09/27/98

GC Column: DB-624 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

100-41-4-----	Ethylbenzene	1.0	U
100-42-5-----	Styrene	1.0	U
1330-20-7-----	Xylene (total)	1.0	U
541-73-1-----	1,3-Dichlorobenzene	1.0	U
106-46-7-----	1,4-Dichlorobenzene	1.0	U
95-50-1-----	1,2-Dichlorobenzene	1.0	U
96-12-8-----	1,2-Dibromo-3-chloropropane	1.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

ENGSC2 SAMPLE NO.

AL208

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70741

Matrix: (soil/water) WATER Lab Sample ID: 366812

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V366812V

Level: (low/med) LOW Date Received: 09/22/98

% Moisture: not dec. _____ Date Analyzed: 09/27/98

GC Column: DB-624 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. 110-54-3	HEXANE	5.99	2.3	NJ
2.				
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FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL210

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70741

Matrix: (soil/water) WATER Lab Sample ID: 366814

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V366814DV

Level: (low/med) LOW Date Received: 09/22/98

% Moisture: not dec. _____ Date Analyzed: 09/27/98

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 4.9

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

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	-----Chloromethane	4.9	U
74-83-9	-----Bromomethane	4.9	U
75-01-4	-----Vinyl Chloride	480	E
75-00-3	-----Chloroethane	4.9	U
75-09-2	-----Methylene Chloride	9.8	U
67-64-1	-----Acetone	24	U
75-15-0	-----Carbon Disulfide	4.9	U
75-35-4	-----1,1-Dichloroethene	4.9	U
75-34-3	-----1,1-Dichloroethane	11	
156-59-2	-----cis-1,2-Dichloroethene	1100	E
156-60-5	-----trans-1,2-Dichloroethene	4.9	U
67-66-3	-----Chloroform	4.9	U
107-06-2	-----1,2-Dichloroethane	4.9	U
78-93-3	-----2-Butanone	24	U
74-97-5	-----Bromochloromethane	4.9	U
71-55-6	-----1,1,1-Trichloroethane	4.9	U
56-23-5	-----Carbon Tetrachloride	4.9	U
75-27-4	-----Bromodichloromethane	4.9	U
78-87-5	-----1,2-Dichloropropane	4.9	U
10061-01-5	-----cis-1,3-Dichloropropene	4.9	U
79-01-6	-----Trichloroethene	22	
124-48-1	-----Dibromochloromethane	4.9	U
79-00-5	-----1,1,2-Trichloroethane	4.9	U
71-43-2	-----Benzene	4.9	U
10061-02-6	-----trans-1,3-Dichloropropene	4.9	U
75-25-2	-----Bromoform	4.9	U
108-10-1	-----4-Methyl-2-Pentanone	24	U
591-78-6	-----2-Hexanone	24	U
127-18-4	-----Tetrachloroethene	4.9	U
79-34-5	-----1,1,2,2-Tetrachloroethane	4.9	U
106-93-4	-----1,2-Dibromoethane	4.9	U
108-88-3	-----Toluene	4.9	U
108-90-7	-----Chlorobenzene	4.9	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL210

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70741

Matrix: (soil/water) WATER Lab Sample ID: 366814

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V366814DV

Level: (low/med) LOW Date Received: 09/22/98

% Moisture: not dec. _____ Date Analyzed: 09/27/98

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 4.9

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-41-4-----	Ethylbenzene	4.9	U
100-42-5-----	Styrene	4.9	U
1330-20-7-----	Xylene (total)	4.9	U
541-73-1-----	1,3-Dichlorobenzene	4.9	U
106-46-7-----	1,4-Dichlorobenzene	4.9	U
95-50-1-----	1,2-Dichlorobenzene	4.9	U
96-12-8-----	1,2-Dibromo-3-chloropropane	4.9	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

ENGSC2 SAMPLE NO.

AL210

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70741

Matrix: (soil/water) WATER Lab Sample ID: 366814

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V366814DV

Level: (low/med) LOW Date Received: 09/22/98

% Moisture: not dec. _____ Date Analyzed: 09/27/98

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 4.9

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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FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL210RE

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70741

Matrix: (soil/water) WATER Lab Sample ID: 366814R1

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: L366814I3DV

Level: (low/med) LOW Date Received: 09/22/98

% Moisture: not dec. _____ Date Analyzed: 09/28/98

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 88.0

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	88	U
74-83-9	-----Bromomethane	88	U
75-01-4	-----Vinyl Chloride	360	
75-00-3	-----Chloroethane	88	U
75-09-2	-----Methylene Chloride	180	U
67-64-1	-----Acetone	440	U
75-15-0	-----Carbon Disulfide	88	U
75-35-4	-----1,1-Dichloroethene	88	U
75-34-3	-----1,1-Dichloroethane	88	U
156-59-2	-----cis-1,2-Dichloroethene	710	
156-60-5	-----trans-1,2-Dichloroethene	88	U
67-66-3	-----Chloroform	88	U
107-06-2	-----1,2-Dichloroethane	88	U
78-93-3	-----2-Butanone	440	U
74-97-5	-----Bromochloromethane	88	U
71-55-6	-----1,1,1-Trichloroethane	88	U
56-23-5	-----Carbon Tetrachloride	88	U
75-27-4	-----Bromodichloromethane	88	U
78-87-5	-----1,2-Dichloropropane	88	U
10061-01-5	-----cis-1,3-Dichloropropene	88	U
79-01-6	-----Trichloroethene	88	U
124-48-1	-----Dibromochloromethane	88	U
79-00-5	-----1,1,2-Trichloroethane	88	U
71-43-2	-----Benzene	88	U
10061-02-6	-----trans-1,3-Dichloropropene	88	U
75-25-2	-----Bromoform	88	U
108-10-1	-----4-Methyl-2-Pentanone	440	U
591-78-6	-----2-Hexanone	440	U
127-18-4	-----Tetrachloroethene	88	U
79-34-5	-----1,1,2,2-Tetrachloroethane	88	U
106-93-4	-----1,2-Dibromoethane	88	U
108-88-3	-----Toluene	88	U
108-90-7	-----Chlorobenzene	88	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL210RE

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70741

Matrix: (soil/water) WATER Lab Sample ID: 366814R1

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: L366814I3DV

Level: (low/med) LOW Date Received: 09/22/98

% Moisture: not dec. _____ Date Analyzed: 09/28/98

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 88.0

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

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L Q

100-41-4-----	Ethylbenzene	88	U
100-42-5-----	Styrene	88	U
1330-20-7-----	Xylene (total)	88	U
541-73-1-----	1,3-Dichlorobenzene	88	U
106-46-7-----	1,4-Dichlorobenzene	88	U
95-50-1-----	1,2-Dichlorobenzene	88	U
96-12-8-----	1,2-Dibromo-3-chloropropane	88	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

ENGSC2 SAMPLE NO.

AL210RE

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70741

Matrix: (soil/water) WATER Lab Sample ID: 366814R1

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: L366814I3DV

Level: (low/med) LOW Date Received: 09/22/98

% Moisture: not dec. _____ Date Analyzed: 09/28/98

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 88.0

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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FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL211

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70741

Matrix: (soil/water) WATER Lab Sample ID: 366816

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V366816V

Level: (low/med) LOW Date Received: 09/22/98

% Moisture: not dec. _____ Date Analyzed: 09/28/98

GC Column: DB-624 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	1.0	U
74-83-9	-----Bromomethane	1.0	U
75-01-4	-----Vinyl Chloride	1.0	U
75-00-3	-----Chloroethane	1.0	U
75-09-2	-----Methylene Chloride	2.0	U
67-64-1	-----Acetone	5.0	U
75-15-0	-----Carbon Disulfide	1.0	U
75-35-4	-----1,1-Dichloroethene	1.0	U
75-34-3	-----1,1-Dichloroethane	1.0	U
156-59-2	-----cis-1,2-Dichloroethene	2.8	
156-60-5	-----trans-1,2-Dichloroethene	1.0	U
67-66-3	-----Chloroform	1.0	U
107-06-2	-----1,2-Dichloroethane	1.0	U
78-93-3	-----2-Butanone	5.0	U
74-97-5	-----Bromochloromethane	1.0	U
71-55-6	-----1,1,1-Trichloroethane	1.0	U
56-23-5	-----Carbon Tetrachloride	1.0	U
75-27-4	-----Bromodichloromethane	1.0	U
78-87-5	-----1,2-Dichloropropane	1.0	U
10061-01-5	-----cis-1,3-Dichloropropene	1.0	U
79-01-6	-----Trichloroethene	0.67	J
124-48-1	-----Dibromochloromethane	1.0	U
79-00-5	-----1,1,2-Trichloroethane	1.0	U
71-43-2	-----Benzene	1.0	U
10061-02-6	-----trans-1,3-Dichloropropene	1.0	U
75-25-2	-----Bromoform	1.0	U
108-10-1	-----4-Methyl-2-Pentanone	5.0	U
591-78-6	-----2-Hexanone	5.0	U
127-18-4	-----Tetrachloroethene	1.0	U
79-34-5	-----1,1,2,2-Tetrachloroethane	1.0	U
106-93-4	-----1,2-Dibromoethane	1.0	U
108-88-3	-----Toluene	1.0	U
108-90-7	-----Chlorobenzene	1.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL211

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70741

Matrix: (soil/water) WATER Lab Sample ID: 366816

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V366816V

Level: (low/med) LOW Date Received: 09/22/98

% Moisture: not dec. _____ Date Analyzed: 09/28/98

GC Column: DB-624 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
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100-41-4-----	Ethylbenzene	1.0	U
100-42-5-----	Styrene	1.0	U
1330-20-7-----	Xylene (total)	1.0	U
541-73-1-----	1,3-Dichlorobenzene	1.0	U
106-46-7-----	1,4-Dichlorobenzene	1.0	U
95-50-1-----	1,2-Dichlorobenzene	1.0	U
96-12-8-----	1,2-Dibromo-3-chloropropane	1.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

ENGSC2 SAMPLE NO.

AL211

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70741

Matrix: (soil/water) WATER Lab Sample ID: 366816

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V366816V

Level: (low/med) LOW Date Received: 09/22/98

% Moisture: not dec. _____ Date Analyzed: 09/28/98

GC Column: DB-624 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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FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL212

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70741

Matrix: (soil/water) WATER Lab Sample ID: 366952

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V366952D3V

Level: (low/med) LOW Date Received: 09/23/98

% Moisture: not dec. _____ Date Analyzed: 09/29/98

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 220.0

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	220	U
74-83-9	-----Bromomethane	220	U
75-01-4	-----Vinyl Chloride	220	U
75-00-3	-----Chloroethane	220	U
75-09-2	-----Methylene Chloride	440	U
67-64-1	-----Acetone	1100	U
75-15-0	-----Carbon Disulfide	220	U
75-35-4	-----1,1-Dichloroethene	220	U
75-34-3	-----1,1-Dichloroethane	220	U
156-59-2	-----cis-1,2-Dichloroethene	450	
156-60-5	-----trans-1,2-Dichloroethene	220	U
67-66-3	-----Chloroform	220	U
107-06-2	-----1,2-Dichloroethane	220	U
78-93-3	-----2-Butanone	1100	U
74-97-5	-----Bromochloromethane	220	U
71-55-6	-----1,1,1-Trichloroethane	220	U
56-23-5	-----Carbon Tetrachloride	220	U
75-27-4	-----Bromodichloromethane	220	U
78-87-5	-----1,2-Dichloropropane	220	U
10061-01-5	-----cis-1,3-Dichloropropene	220	U
79-01-6	-----Trichloroethene	3800	
124-48-1	-----Dibromochloromethane	220	U
79-00-5	-----1,1,2-Trichloroethane	220	U
71-43-2	-----Benzene	220	U
10061-02-6	-----trans-1,3-Dichloropropene	220	U
75-25-2	-----Bromoform	220	U
108-10-1	-----4-Methyl-2-Pentanone	1100	U
591-78-6	-----2-Hexanone	1100	U
127-18-4	-----Tetrachloroethene	220	U
79-34-5	-----1,1,2,2-Tetrachloroethane	220	U
106-93-4	-----1,2-Dibromoethane	220	U
108-88-3	-----Toluene	220	U
108-90-7	-----Chlorobenzene	220	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL212

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70741

Matrix: (soil/water) WATER Lab Sample ID: 366952

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V366952D3V

Level: (low/med) LOW Date Received: 09/23/98

% Moisture: not dec. _____ Date Analyzed: 09/29/98

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 220.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-41-4-----	Ethylbenzene	220	U
100-42-5-----	Styrene	220	U
1330-20-7-----	Xylene (total)	220	U
541-73-1-----	1,3-Dichlorobenzene	220	U
106-46-7-----	1,4-Dichlorobenzene	220	U
95-50-1-----	1,2-Dichlorobenzene	220	U
96-12-8-----	1,2-Dibromo-3-chloropropane	220	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

ENGSC2 SAMPLE NO.

AL212

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70741

Matrix: (soil/water) WATER Lab Sample ID: 366952

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V366952D3V

Level: (low/med) LOW Date Received: 09/23/98

% Moisture: not dec. _____ Date Analyzed: 09/29/98

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 220.0

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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FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL213

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70741

Matrix: (soil/water) WATER Lab Sample ID: 366948

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V366948I3DV

Level: (low/med) LOW Date Received: 09/23/98

% Moisture: not dec. _____ Date Analyzed: 09/28/98

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 8.0

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	8.0	U
74-83-9	-----Bromomethane	8.0	U
75-01-4	-----Vinyl Chloride	8.0	U
75-00-3	-----Chloroethane	8.0	U
75-09-2	-----Methylene Chloride	16	U
67-64-1	-----Acetone	40	U
75-15-0	-----Carbon Disulfide	8.0	U
75-35-4	-----1,1-Dichloroethene	8.0	U
75-34-3	-----1,1-Dichloroethane	8.0	U
156-59-2	-----cis-1,2-Dichloroethene	96	
156-60-5	-----trans-1,2-Dichloroethene	8.0	U
67-66-3	-----Chloroform	8.0	U
107-06-2	-----1,2-Dichloroethane	8.0	U
78-93-3	-----2-Butanone	40	U
74-97-5	-----Bromochloromethane	8.0	U
71-55-6	-----1,1,1-Trichloroethane	8.0	U
56-23-5	-----Carbon Tetrachloride	8.0	U
75-27-4	-----Bromodichloromethane	8.0	U
78-87-5	-----1,2-Dichloropropane	8.0	U
10061-01-5	-----cis-1,3-Dichloropropene	8.0	U
79-01-6	-----Trichloroethene	5.0	J
124-48-1	-----Dibromochloromethane	8.0	U
79-00-5	-----1,1,2-Trichloroethane	8.0	U
71-43-2	-----Benzene	8.0	U
10061-02-6	-----trans-1,3-Dichloropropene	8.0	U
75-25-2	-----Bromoform	8.0	U
108-10-1	-----4-Methyl-2-Pentanone	40	U
591-78-6	-----2-Hexanone	40	U
127-18-4	-----Tetrachloroethene	8.0	U
79-34-5	-----1,1,2,2-Tetrachloroethane	8.0	U
106-93-4	-----1,2-Dibromoethane	8.0	U
108-88-3	-----Toluene	8.0	U
108-90-7	-----Chlorobenzene	8.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL213

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70741

Matrix: (soil/water) WATER Lab Sample ID: 366948

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V366948I3DV

Level: (low/med) LOW Date Received: 09/23/98

% Moisture: not dec. _____ Date Analyzed: 09/28/98

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 8.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-41-4	Ethylbenzene	8.0	U
100-42-5	Styrene	8.0	U
1330-20-7	Xylene (total)	8.0	U
541-73-1	1,3-Dichlorobenzene	8.0	U
106-46-7	1,4-Dichlorobenzene	8.0	U
95-50-1	1,2-Dichlorobenzene	8.0	U
96-12-8	1,2-Dibromo-3-chloropropane	8.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

ENGSC2 SAMPLE NO.

AL213

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70741

Matrix: (soil/water) WATER Lab Sample ID: 366948

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V366948I3DV

Level: (low/med) LOW Date Received: 09/23/98

% Moisture: not dec. _____ Date Analyzed: 09/28/98

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 8.0

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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FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL811

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70741

Matrix: (soil/water) WATER Lab Sample ID: 366946

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V366946I2V

Level: (low/med) LOW Date Received: 09/23/98

% Moisture: not dec. _____ Date Analyzed: 09/28/98

GC Column: DB-624 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	1.0	U
74-83-9	Bromomethane	1.0	U
75-01-4	Vinyl Chloride	1.0	U
75-00-3	Chloroethane	1.0	U
75-09-2	Methylene Chloride	2.0	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon Disulfide	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	U
67-66-3	Chloroform	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
75-27-4	Bromodichloromethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
79-01-6	Trichloroethene	1.0	U
124-48-1	Dibromochloromethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
71-43-2	Benzene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-25-2	Bromoform	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
591-78-6	2-Hexanone	5.0	U
127-18-4	Tetrachloroethene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U
108-88-3	Toluene	2.0	
108-90-7	Chlorobenzene	1.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL811

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70741

Matrix: (soil/water) WATER Lab Sample ID: 366946

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V366946I2V

Level: (low/med) LOW Date Received: 09/23/98

% Moisture: not dec. _____ Date Analyzed: 09/28/98

GC Column: DB-624 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

100-41-4-----	Ethylbenzene	1.0	U
100-42-5-----	Styrene	1.0	U
1330-20-7-----	Xylene (total)	1.0	U
541-73-1-----	1,3-Dichlorobenzene	1.0	U
106-46-7-----	1,4-Dichlorobenzene	1.0	U
95-50-1-----	1,2-Dichlorobenzene	1.0	U
96-12-8-----	1,2-Dibromo-3-chloropropane	1.0	U

FORM 1
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

ENGSC2 SAMPLE NO.

AL811

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70741

Matrix: (soil/water) WATER Lab Sample ID: 366946

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V366946I2V

Level: (low/med) LOW Date Received: 09/23/98

% Moisture: not dec. _____ Date Analyzed: 09/28/98

GC Column: DB-624 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. 124-38-9	CARBON DIOXIDE	1.85	4.4	NJ
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FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL812

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70741

Matrix: (soil/water) WATER Lab Sample ID: 366954

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V366954V

Level: (low/med) LOW Date Received: 09/23/98

% Moisture: not dec. _____ Date Analyzed: 09/28/98

GC Column: DB-624 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	1.0	U
74-83-9	-----Bromomethane	1.0	U
75-01-4	-----Vinyl Chloride	1.0	U
75-00-3	-----Chloroethane	1.0	U
75-09-2	-----Methylene Chloride	2.0	U
67-64-1	-----Acetone	5.0	U
75-15-0	-----Carbon Disulfide	1.0	U
75-35-4	-----1,1-Dichloroethene	1.0	U
75-34-3	-----1,1-Dichloroethane	1.0	U
156-59-2	-----cis-1,2-Dichloroethene	1.0	U
156-60-5	-----trans-1,2-Dichloroethene	1.0	U
67-66-3	-----Chloroform	1.0	U
107-06-2	-----1,2-Dichloroethane	1.0	U
78-93-3	-----2-Butanone	5.0	U
74-97-5	-----Bromochloromethane	1.0	U
71-55-6	-----1,1,1-Trichloroethane	1.0	U
56-23-5	-----Carbon Tetrachloride	1.0	U
75-27-4	-----Bromodichloromethane	1.0	U
78-87-5	-----1,2-Dichloropropane	1.0	U
10061-01-5	-----cis-1,3-Dichloropropene	1.0	U
79-01-6	-----Trichloroethene	3.0	
124-48-1	-----Dibromochloromethane	1.0	U
79-00-5	-----1,1,2-Trichloroethane	1.0	U
71-43-2	-----Benzene	1.0	U
10061-02-6	-----trans-1,3-Dichloropropene	1.0	U
75-25-2	-----Bromoform	1.0	U
108-10-1	-----4-Methyl-2-Pentanone	5.0	U
591-78-6	-----2-Hexanone	5.0	U
127-18-4	-----Tetrachloroethene	1.0	U
79-34-5	-----1,1,2,2-Tetrachloroethane	1.0	U
106-93-4	-----1,2-Dibromoethane	1.0	U
108-88-3	-----Toluene	1.0	U
108-90-7	-----Chlorobenzene	1.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL812

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70741

Matrix: (soil/water) WATER Lab Sample ID: 366954

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V366954V

Level: (low/med) LOW Date Received: 09/23/98

% Moisture: not dec. _____ Date Analyzed: 09/28/98

GC Column: DB-624 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

100-41-4-----	Ethylbenzene	1.0	U
100-42-5-----	Styrene	1.0	U
1330-20-7-----	Xylene (total)	1.0	U
541-73-1-----	1,3-Dichlorobenzene	1.0	U
106-46-7-----	1,4-Dichlorobenzene	1.0	U
95-50-1-----	1,2-Dichlorobenzene	1.0	U
96-12-8-----	1,2-Dibromo-3-chloropropane	1.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

ENGSC2 SAMPLE NO.

AL812

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70741

Matrix: (soil/water) WATER Lab Sample ID: 366954

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V366954V

Level: (low/med) LOW Date Received: 09/23/98

% Moisture: not dec. _____ Date Analyzed: 09/28/98

GC Column: DB-624 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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FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL814

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70741

Matrix: (soil/water) WATER Lab Sample ID: 366950

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V366950I2DV

Level: (low/med) LOW Date Received: 09/23/98

% Moisture: not dec. _____ Date Analyzed: 09/28/98

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 8.0

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	8.0	U
74-83-9	Bromomethane	8.0	U
75-01-4	Vinyl Chloride	8.0	U
75-00-3	Chloroethane	8.0	U
75-09-2	Methylene Chloride	16	U
67-64-1	Acetone	40	U
75-15-0	Carbon Disulfide	8.0	U
75-35-4	1,1-Dichloroethene	8.0	U
75-34-3	1,1-Dichloroethane	8.0	U
156-59-2	cis-1,2-Dichloroethene	120	
156-60-5	trans-1,2-Dichloroethene	8.0	U
67-66-3	Chloroform	8.0	U
107-06-2	1,2-Dichloroethane	8.0	U
78-93-3	2-Butanone	40	U
74-97-5	Bromochloromethane	8.0	U
71-55-6	1,1,1-Trichloroethane	8.0	U
56-23-5	Carbon Tetrachloride	8.0	U
75-27-4	Bromodichloromethane	8.0	U
78-87-5	1,2-Dichloropropane	8.0	U
10061-01-5	cis-1,3-Dichloropropene	8.0	U
79-01-6	Trichloroethene	7.2	J
124-48-1	Dibromochloromethane	8.0	U
79-00-5	1,1,2-Trichloroethane	8.0	U
71-43-2	Benzene	8.0	U
10061-02-6	trans-1,3-Dichloropropene	8.0	U
75-25-2	Bromoform	8.0	U
108-10-1	4-Methyl-2-Pentanone	40	U
591-78-6	2-Hexanone	40	U
127-18-4	Tetrachloroethene	8.0	U
79-34-5	1,1,2,2-Tetrachloroethane	8.0	U
106-93-4	1,2-Dibromoethane	8.0	U
108-88-3	Toluene	8.0	U
108-90-7	Chlorobenzene	8.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL812

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70741

Matrix: (soil/water) WATER Lab Sample ID: 366954

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V366954V

Level: (low/med) LOW Date Received: 09/23/98

% Moisture: not dec. _____ Date Analyzed: 09/28/98

GC Column: DB-624 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	1.0	U
74-83-9	Bromomethane	1.0	U
75-01-4	Vinyl Chloride	1.0	U
75-00-3	Chloroethane	1.0	U
75-09-2	Methylene Chloride	2.0	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon Disulfide	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	U
67-66-3	Chloroform	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
75-27-4	Bromodichloromethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
79-01-6	Trichloroethene	3.0	U
124-48-1	Dibromochloromethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
71-43-2	Benzene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-25-2	Bromoform	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
591-78-6	2-Hexanone	5.0	U
127-18-4	Tetrachloroethene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U
108-88-3	Toluene	1.0	U
108-90-7	Chlorobenzene	1.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL812

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70741

Matrix: (soil/water) WATER Lab Sample ID: 366954

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V366954V

Level: (low/med) LOW Date Received: 09/23/98

% Moisture: not dec. _____ Date Analyzed: 09/28/98

GC Column: DB-624 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
100-41-4	Ethylbenzene	1.0	U
100-42-5	Styrene	1.0	U
1330-20-7	Xylene (total)	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

ENGSC2 SAMPLE NO.

AL812

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70741

Matrix: (soil/water) WATER Lab Sample ID: 366954

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V366954V

Level: (low/med) LOW Date Received: 09/23/98

% Moisture: not dec. _____ Date Analyzed: 09/28/98

GC Column: DB-624 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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FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL814

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70741

Matrix: (soil/water) WATER Lab Sample ID: 366950

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V366950I2DV

Level: (low/med) LOW Date Received: 09/23/98

% Moisture: not dec. _____ Date Analyzed: 09/28/98

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 8.0

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	8.0	U
74-83-9	Bromomethane	8.0	U
75-01-4	Vinyl Chloride	8.0	U
75-00-3	Chloroethane	8.0	U
75-09-2	Methylene Chloride	16	U
67-64-1	Acetone	40	U
75-15-0	Carbon Disulfide	8.0	U
75-35-4	1,1-Dichloroethene	8.0	U
75-34-3	1,1-Dichloroethane	8.0	U
156-59-2	cis-1,2-Dichloroethene	120	
156-60-5	trans-1,2-Dichloroethene	8.0	U
67-66-3	Chloroform	8.0	U
107-06-2	1,2-Dichloroethane	8.0	U
78-93-3	2-Butanone	40	U
74-97-5	Bromochloromethane	8.0	U
71-55-6	1,1,1-Trichloroethane	8.0	U
56-23-5	Carbon Tetrachloride	8.0	U
75-27-4	Bromodichloromethane	8.0	U
78-87-5	1,2-Dichloropropane	8.0	U
10061-01-5	cis-1,3-Dichloropropene	8.0	U
79-01-6	Trichloroethene	7.2	J
124-48-1	Dibromochloromethane	8.0	U
79-00-5	1,1,2-Trichloroethane	8.0	U
71-43-2	Benzene	8.0	U
10061-02-6	trans-1,3-Dichloropropene	8.0	U
75-25-2	Bromoform	8.0	U
108-10-1	4-Methyl-2-Pentanone	40	U
591-78-6	2-Hexanone	40	U
127-18-4	Tetrachloroethene	8.0	U
79-34-5	1,1,2,2-Tetrachloroethane	8.0	U
106-93-4	1,2-Dibromoethane	8.0	U
108-88-3	Toluene	8.0	U
108-90-7	Chlorobenzene	8.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL814

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70741

Matrix: (soil/water) WATER Lab Sample ID: 366950

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V366950I2DV

Level: (low/med) LOW Date Received: 09/23/98

% Moisture: not dec. _____ Date Analyzed: 09/28/98

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 8.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-41-4-----	Ethylbenzene	8.0	U
100-42-5-----	Styrene	8.0	U
1330-20-7-----	Xylene (total)	8.0	U
541-73-1-----	1,3-Dichlorobenzene	8.0	U
106-46-7-----	1,4-Dichlorobenzene	8.0	U
95-50-1-----	1,2-Dichlorobenzene	8.0	U
96-12-8-----	1,2-Dibromo-3-chloropropane	8.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

ENGSC2 SAMPLE NO.

AL814

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70741

Matrix: (soil/water) WATER Lab Sample ID: 366950

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V366950I2DV

Level: (low/med) LOW Date Received: 09/23/98

% Moisture: not dec. _____ Date Analyzed: 09/28/98

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 8.0

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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FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VBK08

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70741

Matrix: (soil/water) WATER Lab Sample ID: VBK08

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: LNKB001AV

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 10/19/98

GC Column: CAP 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	1.0	U
74-83-9	Bromomethane	1.0	U
75-01-4	Vinyl Chloride	1.0	U
75-00-3	Chloroethane	1.0	U
75-09-2	Methylene Chloride	2.0	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon Disulfide	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	U
67-66-3	Chloroform	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
75-27-4	Bromodichloromethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
79-01-6	Trichloroethene	1.0	U
124-48-1	Dibromochloromethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
71-43-2	Benzene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-25-2	Bromoform	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
591-78-6	2-Hexanone	5.0	U
127-18-4	Tetrachloroethene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U
108-88-3	Toluene	1.0	U
108-90-7	Chlorobenzene	1.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VBLK08

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70741

Matrix: (soil/water) WATER Lab Sample ID: VBLK08

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: LNKB001AV

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 10/19/98

GC Column: CAP 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
100-41-4	Ethylbenzene	1.0	U
100-42-5	Styrene	1.0	U
1330-20-7	Xylene (total)	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
1634-04-4	Methyl-t-Butyl Ether	1.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

VBLK08

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70741

Matrix: (soil/water) WATER Lab Sample ID: VBLK08

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: LNKB001AV

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 10/19/98

GC Column: CAP 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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FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VBLKF8

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70741

Matrix: (soil/water) WATER Lab Sample ID: VBLKF8

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: VLAB001BV

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 09/27/98

GC Column: DB-624 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	1.0	U
74-83-9	Bromomethane	1.0	U
75-01-4	Vinyl Chloride	1.0	U
75-00-3	Chloroethane	1.0	U
75-09-2	Methylene Chloride	2.0	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon Disulfide	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	U
67-66-3	Chloroform	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
75-27-4	Bromodichloromethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
79-01-6	Trichloroethene	1.0	U
124-48-1	Dibromochloromethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
71-43-2	Benzene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-25-2	Bromoform	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
591-78-6	2-Hexanone	5.0	U
127-18-4	Tetrachloroethene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U
108-88-3	Toluene	1.0	U
108-90-7	Chlorobenzene	1.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VBLKF8

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70741

Matrix: (soil/water) WATER

Lab Sample ID: VBLKF8

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: VLAB001BV

Level: (low/med) LOW

Date Received: _____

% Moisture: not dec. _____

Date Analyzed: 09/27/98

GC Column: DB-624 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
100-41-4-----	Ethylbenzene	1.0	U
100-42-5-----	Styrene	1.0	U
1330-20-7-----	Xylene (total)	1.0	U
541-73-1-----	1,3-Dichlorobenzene	1.0	U
106-46-7-----	1,4-Dichlorobenzene	1.0	U
95-50-1-----	1,2-Dichlorobenzene	1.0	U
96-12-8-----	1,2-Dibromo-3-chloropropane	1.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

VBLKF8

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70741

Matrix: (soil/water) WATER Lab Sample ID: VBLKF8

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: VLAB001BV

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 09/27/98

GC Column: DB-624 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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FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VBLKG4

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70741

Matrix: (soil/water) WATER Lab Sample ID: VBLKG4

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: VLAB001CV

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 09/28/98

GC Column: DB-624 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	1.0	U
74-83-9	Bromomethane	1.0	U
75-01-4	Vinyl Chloride	1.0	U
75-00-3	Chloroethane	1.0	U
75-09-2	Methylene Chloride	2.0	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon Disulfide	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	U
67-66-3	Chloroform	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
75-27-4	Bromodichloromethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
79-01-6	Trichloroethene	1.0	U
124-48-1	Dibromochloromethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
71-43-2	Benzene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-25-2	Bromoform	1.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
591-78-6	2-Hexanone	5.0	U
127-18-4	Tetrachloroethene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U
108-88-3	Toluene	1.0	U
108-90-7	Chlorobenzene	1.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VBLKG4

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70741

Matrix: (soil/water) WATER Lab Sample ID: VBLKG4

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: VLAB001CV

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 09/28/98

GC Column: DB-624 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
100-41-4-----	Ethylbenzene	1.0	U
100-42-5-----	Styrene	1.0	U
1330-20-7-----	Xylene (total)	1.0	U
541-73-1-----	1,3-Dichlorobenzene	1.0	U
106-46-7-----	1,4-Dichlorobenzene	1.0	U
95-50-1-----	1,2-Dichlorobenzene	1.0	U
96-12-8-----	1,2-Dibromo-3-chloropropane	1.0	U

FORM 1
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

VBLKG4

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70741

Matrix: (soil/water) WATER

Lab Sample ID: VBLKG4

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: VLAB001CV

Level: (low/med) LOW

Date Received: _____

% Moisture: not dec. _____

Date Analyzed: 09/28/98

GC Column: DB-624 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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FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VBLKG9

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70741

Matrix: (soil/water) WATER Lab Sample ID: VBLKG9

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: VLAB003DV

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 09/29/98

GC Column: DB-624 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	1.0	U
74-83-9	-----Bromomethane	1.0	U
75-01-4	-----Vinyl Chloride	1.0	U
75-00-3	-----Chloroethane	1.0	U
75-09-2	-----Methylene Chloride	2.0	U
67-64-1	-----Acetone	5.0	U
75-15-0	-----Carbon Disulfide	1.0	U
75-35-4	-----1,1-Dichloroethene	1.0	U
75-34-3	-----1,1-Dichloroethane	1.0	U
156-59-2	-----cis-1,2-Dichloroethene	1.0	U
156-60-5	-----trans-1,2-Dichloroethene	1.0	U
67-66-3	-----Chloroform	1.0	U
107-06-2	-----1,2-Dichloroethane	1.0	U
78-93-3	-----2-Butanone	5.0	U
74-97-5	-----Bromochloromethane	1.0	U
71-55-6	-----1,1,1-Trichloroethane	1.0	U
56-23-5	-----Carbon Tetrachloride	1.0	U
75-27-4	-----Bromodichloromethane	1.0	U
78-87-5	-----1,2-Dichloropropane	1.0	U
10061-01-5	-----cis-1,3-Dichloropropene	1.0	U
79-01-6	-----Trichloroethene	1.0	U
124-48-1	-----Dibromochloromethane	1.0	U
79-00-5	-----1,1,2-Trichloroethane	1.0	U
71-43-2	-----Benzene	1.0	U
10061-02-6	-----trans-1,3-Dichloropropene	1.0	U
75-25-2	-----Bromoform	1.0	U
108-10-1	-----4-Methyl-2-Pentanone	5.0	U
591-78-6	-----2-Hexanone	5.0	U
127-18-4	-----Tetrachloroethene	1.0	U
79-34-5	-----1,1,2,2-Tetrachloroethane	1.0	U
106-93-4	-----1,2-Dibromoethane	1.0	U
108-88-3	-----Toluene	1.0	U
108-90-7	-----Chlorobenzene	1.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VBLKG9

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70741

Matrix: (soil/water) WATER Lab Sample ID: VBLKG9

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: VLAB003DV

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 09/29/98

GC Column: DB-624 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
100-41-4-----	Ethylbenzene_____	1.0	U
100-42-5-----	Styrene_____	1.0	U
1330-20-7-----	Xylene (total)_____	1.0	U
541-73-1-----	1,3-Dichlorobenzene_____	1.0	U
106-46-7-----	1,4-Dichlorobenzene_____	1.0	U
95-50-1-----	1,2-Dichlorobenzene_____	1.0	U
96-12-8-----	1,2-Dibromo-3-chloropropane_	1.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

VBLKG9

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70741

Matrix: (soil/water) WATER Lab Sample ID: VBLKG9

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: VLAB003DV

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 09/29/98

GC Column: DB-624 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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FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL213MS

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70741

Matrix: (soil/water) WATER Lab Sample ID: 366948MS

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V366948MSI2DV

Level: (low/med) LOW Date Received: 09/23/98

% Moisture: not dec. _____ Date Analyzed: 09/28/98

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 8.0

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	8.0	U
74-83-9	Bromomethane	8.0	U
75-01-4	Vinyl Chloride	54	
75-00-3	Chloroethane	8.0	U
75-09-2	Methylene Chloride	16	U
67-64-1	Acetone	22	J
75-15-0	Carbon Disulfide	8.0	U
75-35-4	1,1-Dichloroethene	8.0	U
75-34-3	1,1-Dichloroethane	8.0	U
156-59-2	cis-1,2-Dichloroethene	140	
156-60-5	trans-1,2-Dichloroethene	8.0	U
67-66-3	Chloroform	8.0	U
107-06-2	1,2-Dichloroethane	32	
78-93-3	2-Butanone	40	U
74-97-5	Bromochloromethane	8.0	U
71-55-6	1,1,1-Trichloroethane	8.0	U
56-23-5	Carbon Tetrachloride	28	
75-27-4	Bromodichloromethane	8.0	U
78-87-5	1,2-Dichloropropane	32	
10061-01-5	cis-1,3-Dichloropropene	28	
79-01-6	Trichloroethene	42	
124-48-1	Dibromochloromethane	8.0	U
79-00-5	1,1,2-Trichloroethane	34	
71-43-2	Benzene	34	
10061-02-6	trans-1,3-Dichloropropene	31	
75-25-2	Bromoform	31	
108-10-1	4-Methyl-2-Pentanone	40	U
591-78-6	2-Hexanone	40	U
127-18-4	Tetrachloroethene	40	
79-34-5	1,1,2,2-Tetrachloroethane	8.0	U
106-93-4	1,2-Dibromoethane	33	
108-88-3	Toluene	8.0	U
108-90-7	Chlorobenzene	8.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL213MS

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70741

Matrix: (soil/water) WATER Lab Sample ID: 366948MS

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V366948MSI2DV

Level: (low/med) LOW Date Received: 09/23/98

% Moisture: not dec. _____ Date Analyzed: 09/28/98

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 8.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-41-4-----	Ethylbenzene	8.0	U
100-42-5-----	Styrene	8.0	U
1330-20-7-----	Xylene (total)	8.0	U
541-73-1-----	1,3-Dichlorobenzene	43	
106-46-7-----	1,4-Dichlorobenzene	33	
95-50-1-----	1,2-Dichlorobenzene	42	
96-12-8-----	1,2-Dibromo-3-chloropropane	8.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL213MSD

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70741

Matrix: (soil/water) WATER Lab Sample ID: 366948MD

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V366948MDI2DV

Level: (low/med) LOW Date Received: 09/23/98

% Moisture: not dec. _____ Date Analyzed: 09/28/98

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 8.0

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	2.2	J
74-83-9	Bromomethane	8.0	U
75-01-4	Vinyl Chloride	51	
75-00-3	Chloroethane	8.0	U
75-09-2	Methylene Chloride	16	U
67-64-1	Acetone	20	J
75-15-0	Carbon Disulfide	8.0	U
75-35-4	1,1-Dichloroethene	8.0	U
75-34-3	1,1-Dichloroethane	8.0	U
156-59-2	cis-1,2-Dichloroethene	160	
156-60-5	trans-1,2-Dichloroethene	8.0	U
67-66-3	Chloroform	8.0	U
107-06-2	1,2-Dichloroethane	32	
78-93-3	2-Butanone	8.5	J
74-97-5	Bromochloromethane	8.0	U
71-55-6	1,1,1-Trichloroethane	8.0	U
56-23-5	Carbon Tetrachloride	29	
75-27-4	Bromodichloromethane	8.0	U
78-87-5	1,2-Dichloropropane	33	
10061-01-5	cis-1,3-Dichloropropene	28	
79-01-6	Trichloroethene	42	
124-48-1	Dibromochloromethane	8.0	U
79-00-5	1,1,2-Trichloroethane	33	
71-43-2	Benzene	34	
10061-02-6	trans-1,3-Dichloropropene	31	
75-25-2	Bromoform	31	
108-10-1	4-Methyl-2-Pentanone	40	U
591-78-6	2-Hexanone	40	U
127-18-4	Tetrachloroethene	40	
79-34-5	1,1,2,2-Tetrachloroethane	8.0	U
106-93-4	1,2-Dibromoethane	33	
108-88-3	Toluene	8.0	U
108-90-7	Chlorobenzene	8.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL213MSD

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70741

Matrix: (soil/water) WATER Lab Sample ID: 366948MD

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V366948MDI2DV

Level: (low/med) LOW Date Received: 09/23/98

% Moisture: not dec. _____ Date Analyzed: 09/28/98

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 8.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-41-4-----	Ethylbenzene	8.0	U
100-42-5-----	Styrene	8.0	U
1330-20-7-----	Xylene (total)	8.0	U
541-73-1-----	1,3-Dichlorobenzene	42	
106-46-7-----	1,4-Dichlorobenzene	32	
95-50-1-----	1,2-Dichlorobenzene	41	
96-12-8-----	1,2-Dibromo-3-chloropropane	8.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

LNKA LCS

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70741

Matrix: (soil/water) WATER Lab Sample ID: LNKA LCS

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: LNK005AQV

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 10/19/98

GC Column: CAP 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	1.0	U
74-83-9	Bromomethane	1.0	U
75-01-4	Vinyl Chloride	5.1	
75-00-3	Chloroethane	1.0	U
75-09-2	Methylene Chloride	2.0	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon Disulfide	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	U
67-66-3	Chloroform	1.0	U
107-06-2	1,2-Dichloroethane	5.0	
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
56-23-5	Carbon Tetrachloride	4.6	
75-27-4	Bromodichloromethane	1.0	U
78-87-5	1,2-Dichloropropane	4.7	
10061-01-5	cis-1,3-Dichloropropene	4.6	
79-01-6	Trichloroethene	4.9	
124-48-1	Dibromochloromethane	1.0	U
79-00-5	1,1,2-Trichloroethane	5.0	
71-43-2	Benzene	5.0	
10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-25-2	Bromoform	6.7	
108-10-1	4-Methyl-2-Pentanone	5.0	U
591-78-6	2-Hexanone	5.0	U
127-18-4	Tetrachloroethene	5.1	
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
106-93-4	1,2-Dibromoethane	5.3	
108-88-3	Toluene	1.0	U
108-90-7	Chlorobenzene	1.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

LNKA LCS

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70741

Matrix: (soil/water) WATER Lab Sample ID: LNKA LCS

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: LNK005AQV

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 10/19/98

GC Column: CAP 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

100-41-4-----	Ethylbenzene	1.0	U
100-42-5-----	Styrene	1.0	U
1330-20-7-----	Xylene (total)	1.0	U
541-73-1-----	1,3-Dichlorobenzene	1.0	U
106-46-7-----	1,4-Dichlorobenzene	4.6	
95-50-1-----	1,2-Dichlorobenzene	1.0	U
96-12-8-----	1,2-Dibromo-3-chloropropane	1.0	U
1634-04-4-----	Methyl-t-Butyl Ether	5.0	E

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VLAB LCS

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70741

Matrix: (soil/water) WATER Lab Sample ID: VLAB LCS

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: VLA005BQV

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 09/27/98

GC Column: DB-624 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	1.0	U
74-83-9	-----Bromomethane	1.0	U
75-01-4	-----Vinyl Chloride	7.9	
75-00-3	-----Chloroethane	1.0	U
75-09-2	-----Methylene Chloride	2.0	U
67-64-1	-----Acetone	5.0	U
75-15-0	-----Carbon Disulfide	1.0	U
75-35-4	-----1,1-Dichloroethene	1.0	U
75-34-3	-----1,1-Dichloroethane	1.0	U
156-59-2	-----cis-1,2-Dichloroethene	1.0	U
156-60-5	-----trans-1,2-Dichloroethene	1.0	U
67-66-3	-----Chloroform	1.0	U
107-06-2	-----1,2-Dichloroethane	4.4	
78-93-3	-----2-Butanone	5.0	U
74-97-5	-----Bromochloromethane	1.0	U
71-55-6	-----1,1,1-Trichloroethane	1.0	U
56-23-5	-----Carbon Tetrachloride	3.9	
75-27-4	-----Bromodichloromethane	1.0	U
78-87-5	-----1,2-Dichloropropane	4.4	
10061-01-5	-----cis-1,3-Dichloropropene	3.7	
79-01-6	-----Trichloroethene	4.4	
124-48-1	-----Dibromochloromethane	1.0	U
79-00-5	-----1,1,2-Trichloroethane	4.2	
71-43-2	-----Benzene	4.6	
10061-02-6	-----trans-1,3-Dichloropropene	1.0	U
75-25-2	-----Bromoform	4.0	
108-10-1	-----4-Methyl-2-Pentanone	5.0	U
591-78-6	-----2-Hexanone	5.0	U
127-18-4	-----Tetrachloroethene	5.1	
79-34-5	-----1,1,2,2-Tetrachloroethane	1.0	U
106-93-4	-----1,2-Dibromoethane	4.3	
108-88-3	-----Toluene	1.0	U
108-90-7	-----Chlorobenzene	1.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VLAB LCS

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70741

Matrix: (soil/water) WATER Lab Sample ID: VLAB LCS

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: VLA005BQV

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 09/27/98

GC Column: DB-624 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
100-41-4-----	Ethylbenzene	1.0	U
100-42-5-----	Styrene	1.0	U
1330-20-7-----	Xylene (total)	1.0	U
541-73-1-----	1,3-Dichlorobenzene	5.6	
106-46-7-----	1,4-Dichlorobenzene	4.7	
95-50-1-----	1,2-Dichlorobenzene	5.7	
96-12-8-----	1,2-Dibromo-3-chloropropane	1.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VLAC LCS

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70741

Matrix: (soil/water) WATER Lab Sample ID: VLAC LCS

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: VLA005CQV

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 09/28/98

GC Column: DB-624 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	1.0 U
74-83-9	Bromomethane	1.0 U
75-01-4	Vinyl Chloride	6.5
75-00-3	Chloroethane	1.0 U
75-09-2	Methylene Chloride	2.0 U
67-64-1	Acetone	5.0 U
75-15-0	Carbon Disulfide	1.0 U
75-35-4	1,1-Dichloroethene	1.0 U
75-34-3	1,1-Dichloroethane	1.0 U
156-59-2	cis-1,2-Dichloroethene	1.0 U
156-60-5	trans-1,2-Dichloroethene	1.0 U
67-66-3	Chloroform	1.0 U
107-06-2	1,2-Dichloroethane	5.5
78-93-3	2-Butanone	5.0 U
74-97-5	Bromochloromethane	1.0 U
71-55-6	1,1,1-Trichloroethane	1.0 U
56-23-5	Carbon Tetrachloride	4.8
75-27-4	Bromodichloromethane	1.0 U
78-87-5	1,2-Dichloropropane	5.2
10061-01-5	cis-1,3-Dichloropropene	4.6
79-01-6	Trichloroethene	5.3
124-48-1	Dibromochloromethane	1.0 U
79-00-5	1,1,2-Trichloroethane	5.2
71-43-2	Benzene	5.2
10061-02-6	trans-1,3-Dichloropropene	1.0 U
75-25-2	Bromoform	4.3
108-10-1	4-Methyl-2-Pentanone	5.0 U
591-78-6	2-Hexanone	5.0 U
127-18-4	Tetrachloroethene	5.6
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U
106-93-4	1,2-Dibromoethane	4.8
108-88-3	Toluene	1.0 U
108-90-7	Chlorobenzene	1.0 U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VLAC LCS

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70741

Matrix: (soil/water) WATER Lab Sample ID: VLAC LCS

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: VLA005CQV

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 09/28/98

GC Column: DB-624 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
100-41-4	Ethylbenzene	1.0	U
100-42-5	Styrene	1.0	U
1330-20-7	Xylene (total)	1.0	U
541-73-1	1,3-Dichlorobenzene	5.9	
106-46-7	1,4-Dichlorobenzene	4.5	
95-50-1	1,2-Dichlorobenzene	5.8	
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VLAD LCS

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70741

Matrix: (soil/water) WATER Lab Sample ID: VLAD LCS

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: VLA005DQV

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 09/29/98

GC Column: DB-624 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	1.0	U
74-83-9	Bromomethane	1.0	U
75-01-4	Vinyl Chloride	6.9	
75-00-3	Chloroethane	1.0	U
75-09-2	Methylene Chloride	2.0	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon Disulfide	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	U
67-66-3	Chloroform	1.0	U
107-06-2	1,2-Dichloroethane	5.3	
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
56-23-5	Carbon Tetrachloride	4.3	
75-27-4	Bromodichloromethane	1.0	U
78-87-5	1,2-Dichloropropane	4.8	
10061-01-5	cis-1,3-Dichloropropene	4.6	
79-01-6	Trichloroethene	5.0	
124-48-1	Dibromochloromethane	1.0	U
79-00-5	1,1,2-Trichloroethane	5.0	
71-43-2	Benzene	5.1	
10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-25-2	Bromoform	4.7	
108-10-1	4-Methyl-2-Pentanone	5.0	U
591-78-6	2-Hexanone	5.0	U
127-18-4	Tetrachloroethene	5.8	
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
106-93-4	1,2-Dibromoethane	5.0	
108-88-3	Toluene	1.0	U
108-90-7	Chlorobenzene	1.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VLAD LCS

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70741

Matrix: (soil/water) WATER Lab Sample ID: VLAD LCS

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: VLA005DQV

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 09/29/98

GC Column: DB-624 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
100-41-4	Ethylbenzene	1.0	U
100-42-5	Styrene	1.0	U
1330-20-7	Xylene (total)	1.0	U
541-73-1	1,3-Dichlorobenzene	6.1	
106-46-7	1,4-Dichlorobenzene	4.7	
95-50-1	1,2-Dichlorobenzene	5.9	
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

VSBLK01

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70741

Matrix: (soil/water) WATER Lab Sample ID: 366818

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: L366818I2V

Level: (low/med) LOW Date Received: 09/22/98

% Moisture: not dec. _____ Date Analyzed: 10/19/98

GC Column: CAP 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	1.0 U
74-83-9	Bromomethane	1.0 U
75-01-4	Vinyl Chloride	1.0 U
75-00-3	Chloroethane	1.0 U
75-09-2	Methylene Chloride	2.0 U
67-64-1	Acetone	5.0 U
75-15-0	Carbon Disulfide	1.0 U
75-35-4	1,1-Dichloroethene	1.0 U
75-34-3	1,1-Dichloroethane	1.0 U
156-59-2	cis-1,2-Dichloroethene	1.0 U
156-60-5	trans-1,2-Dichloroethene	1.0 U
67-66-3	Chloroform	1.0 U
107-06-2	1,2-Dichloroethane	1.0 U
78-93-3	2-Butanone	5.0 U
74-97-5	Bromochloromethane	1.0 U
71-55-6	1,1,1-Trichloroethane	1.0 U
56-23-5	Carbon Tetrachloride	1.0 U
75-27-4	Bromodichloromethane	1.0 U
78-87-5	1,2-Dichloropropane	1.0 U
10061-01-5	cis-1,3-Dichloropropene	1.0 U
79-01-6	Trichloroethene	1.0 U
124-48-1	Dibromochloromethane	1.0 U
79-00-5	1,1,2-Trichloroethane	1.0 U
71-43-2	Benzene	1.0 U
10061-02-6	trans-1,3-Dichloropropene	1.0 U
75-25-2	Bromoform	1.0 U
108-10-1	4-Methyl-2-Pentanone	5.0 U
591-78-6	2-Hexanone	5.0 U
127-18-4	Tetrachloroethene	1.0 U
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U
106-93-4	1,2-Dibromoethane	1.0 U
108-88-3	Toluene	0.40 J
108-90-7	Chlorobenzene	1.0 U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

VSBLK01

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70741

Matrix: (soil/water) WATER Lab Sample ID: 366818

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: L366818I2V

Level: (low/med) LOW Date Received: 09/22/98

% Moisture: not dec. _____ Date Analyzed: 10/19/98

GC Column: CAP 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
100-41-4-----	Ethylbenzene	1.0	U
100-42-5-----	Styrene	1.0	U
1330-20-7-----	Xylene (total)	1.0	U
541-73-1-----	1,3-Dichlorobenzene	1.0	U
106-46-7-----	1,4-Dichlorobenzene	1.0	U
95-50-1-----	1,2-Dichlorobenzene	1.0	U
96-12-8-----	1,2-Dibromo-3-chloropropane	1.0	U
1634-04-4-----	Methyl-t-Butyl Ether	1.0	U

FORM 1
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

ENGSC2 SAMPLE NO.

VSBLK01

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70741

Matrix: (soil/water) WATER Lab Sample ID: 366818

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: L366818I2V

Level: (low/med) LOW Date Received: 09/22/98

% Moisture: not dec. _____ Date Analyzed: 10/19/98

GC Column: CAP 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.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM 2
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70741

	CLIENT SAMPLE NO.	SMC1 #	SMC2 #	SMC3 #	OTHER	TOT OUT
01	VBLKF8	114				0
02	VLAB LCS	116				0
03	AL207	108				0
04	AL208	120				0
05	AL210	126*				1
06	VBLKG4	88				0
07	VLAC LCS	98				0
08	AL811	98				0
09	AL211	108				0
10	AL812	116				0
11	AL210RE	120				0
12	AL213MS	128*				1
13	AL213MSD	114				0
14	AL213	110				0
15	AL814	112				0
16	VLAD LCS	118				0
17	VBLKG9	98				0
18	AL212	120				0
19	VBLK08	92				0
20	LNKA LCS	92				0
21	VSBLK01	88				0
22						
23						
24						
25						
26						
27						
28						
29						
30						

QC LIMITS

SMC1 = 4-Bromofluorobenzene (80-120)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

FORM 3
WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70741

Matrix Spike - ENGSC2 Sample No.: AL213

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
Vinyl Chloride	40	0.0	54	135	60-140
1,2-Dichloroethane	40	0.0	32	80	60-140
Carbon Tetrachloride	40	0.0	28	70	60-140
1,2-Dichloropropane	40	0.0	32	80	60-140
cis-1,3-Dichloropropene	40	0.0	28	70	60-140
Trichloroethene	40	5.0	42	92	60-140
1,1,2-Trichloroethane	40	0.0	34	85	60-140
Benzene	40	0.0	34	85	60-140
Bromoform	40	0.0	31	78	60-140
Tetrachloroethene	40	0.0	40	100	60-140
1,2-Dibromoethane	40	0.0	33	82	60-140
1,4-Dichlorobenzene	40	0.0	33	82	60-140

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	REC.
Vinyl Chloride	40	51	128	5	20	60-140
1,2-Dichloroethane	40	32	80	0	20	60-140
Carbon Tetrachloride	40	29	72	3	20	60-140
1,2-Dichloropropane	40	33	82	2	20	60-140
cis-1,3-Dichloropropene	40	28	70	0	20	60-140
Trichloroethene	40	42	92	0	20	60-140
1,1,2-Trichloroethane	40	33	82	4	20	60-140
Benzene	40	34	85	0	20	60-140
Bromoform	40	31	78	0	20	60-140
Tetrachloroethene	40	40	100	0	20	60-140
1,2-Dibromoethane	40	33	82	0	20	60-140
1,4-Dichlorobenzene	40	32	80	2	20	60-140

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 12 outside limits

Spike Recovery: 0 out of 24 outside limits

COMMENTS:

FORM 3
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70741

Matrix Spike - Sample No.: LNKA LCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
Vinyl Chloride	5.0		5.1	102	60-140
1,2-Dichloroethane	5.0		5.0	100	60-140
Carbon Tetrachloride	5.0		4.6	92	60-140
1,2-Dichloropropane	5.0		4.7	94	60-140
cis-1,3-Dichloropropene	5.0		4.6	92	60-140
Trichloroethene	5.0		4.9	98	60-140
1,1,2-Trichloroethane	5.0		5.0	100	60-140
Benzene	5.0		5.0	100	60-140
Bromoform	5.0		6.7	134	60-140
Tetrachloroethene	5.0		5.1	102	60-140
1,2-Dibromoethane	5.0		5.3	106	60-140
1,4-Dichlorobenzene	5.0		4.6	92	60-140

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limits

Spike Recovery: 0 out of 12 outside limits

COMMENTS:

FORM 3
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70741

Matrix Spike - Sample No.: VLAB LCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
Vinyl Chloride	5.0		7.9	158*	60-140
1,2-Dichloroethane	5.0		4.4	88	60-140
Carbon Tetrachloride	5.0		3.9	78	60-140
1,2-Dichloropropane	5.0		4.4	88	60-140
cis-1,3-Dichloropropene	5.0		3.7	74	60-140
Trichloroethene	5.0		4.4	88	60-140
1,1,2-Trichloroethane	5.0		4.2	84	60-140
Benzene	5.0		4.6	92	60-140
Bromoform	5.0		4.0	80	60-140
Tetrachloroethene	5.0		5.1	102	60-140
1,2-Dibromoethane	5.0		4.3	86	60-140
1,4-Dichlorobenzene	5.0		4.7	94	60-140

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limits

Spike Recovery: 1 out of 12 outside limits

COMMENTS:

FORM 3
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70741

Matrix Spike - Sample No.: VLAC LCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
Vinyl Chloride	5.0		6.5	130	60-140
1,2-Dichloroethane	5.0		5.5	110	60-140
Carbon Tetrachloride	5.0		4.8	96	60-140
1,2-Dichloropropane	5.0		5.2	104	60-140
cis-1,3-Dichloropropene	5.0		4.6	92	60-140
Trichloroethene	5.0		5.3	106	60-140
1,1,2-Trichloroethane	5.0		5.2	104	60-140
Benzene	5.0		5.2	104	60-140
Bromoform	5.0		4.3	86	60-140
Tetrachloroethene	5.0		5.6	112	60-140
1,2-Dibromoethane	5.0		4.8	96	60-140
1,4-Dichlorobenzene	5.0		4.5	90	60-140

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limits

Spike Recovery: 0 out of 12 outside limits

COMMENTS: _____

FORM 3
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70741

Matrix Spike - Sample No.: VLAD LCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
Vinyl Chloride	5.0		6.9	138	60-140
1,2-Dichloroethane	5.0		5.3	106	60-140
Carbon Tetrachloride	5.0		4.3	86	60-140
1,2-Dichloropropane	5.0		4.8	96	60-140
cis-1,3-Dichloropropene	5.0		4.6	92	60-140
Trichloroethene	5.0		5.0	100	60-140
1,1,2-Trichloroethane	5.0		5.0	100	60-140
Benzene	5.0		5.1	102	60-140
Bromoform	5.0		4.7	94	60-140
Tetrachloroethene	5.0		5.8	116	60-140
1,2-Dibromoethane	5.0		5.0	100	60-140
1,4-Dichlorobenzene	5.0		4.7	94	60-140

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limits

Spike Recovery: 0 out of 12 outside limits

COMMENTS:

FORM 4
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

VBLK08

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70741

Lab File ID: LNK001AV Lab Sample ID: VBLK08

Date Analyzed: 10/19/98 Time Analyzed: 0828

GC Column: CAP ID: 0.53 (mm) Heated Purge: (Y/N) N

Instrument ID: L

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	LNKA LCS	LNKA LCS	LNK005AQV	0855
02	VSBLK01	366818	L366818I2V	0949
03				
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COMMENTS:

FORM 4
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

VBLKF8

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70741

Lab File ID: VLAB001BV Lab Sample ID: VBLKF8

Date Analyzed: 09/27/98 Time Analyzed: 1459

GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

Instrument ID: V

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	VLAB LCS	VLAB LCS	VLA005BQV	1527
02	AL207	366810	V366810DV	1740
03	AL208	366812	V366812V	1818
04	AL210	366814	V366814DV	1842
05				
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COMMENTS:

FORM 4
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

VBLKG4

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70741

Lab File ID: VLAB001CV Lab Sample ID: VBLKG4

Date Analyzed: 09/28/98 Time Analyzed: 0841

GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

Instrument ID: V

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	VLAC LCS	VLA005CQV	0908
02	AL811	V366946I2V	1016
03	AL211	V366816V	1103
04	AL812	V366954V	1305
05	AL210RE	L366814I3DV	1337
06	AL213MS	V366948MSI2D	1425
07	AL213MSD	V366948MDI2D	1449
08	AL213	V366948I3DV	1652
09	AL814	V366950I2DV	1716
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COMMENTS:

FORM 4
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

VBLKG9

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70741

Lab File ID: VLAB003DV Lab Sample ID: VBLKG9

Date Analyzed: 09/29/98 Time Analyzed: 1036

GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

Instrument ID: V

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	VLAD LCS	VLAD LCS	VLA005DQV	0919
02	AL212	366952	V366952D3V	1320
03				
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COMMENTS:

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70741

Lab File ID: LNK002PV BFB Injection Date: 10/12/98

Instrument ID: L BFB Injection Time: 1755

GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.2
75	30.0 - 60.0% of mass 95	43.9
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	58.7
175	5.0 - 9.0% of mass 174	4.5 (7.6)1
176	95.0 - 101.0% of mass 174	57.4 (97.9)1
177	5.0 - 9.0% of mass 176	3.8 (6.6)2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD001	VSTD001	LNK001H2V	10/12/98	1804
02	VSTD002	VSTD002	LNK002H2V	10/12/98	1833
03	VSTD005	VSTD005	LNK005H2V	10/12/98	1856
04	VSTD010	VSTD010	LNK010H2V	10/12/98	1919
05	VSTD025	VSTD025	LNK025H2V	10/12/98	1942
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FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70741

Lab File ID: LNK003PV BFB Injection Date: 10/19/98

Instrument ID: L BFB Injection Time: 0739

GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.0
75	30.0 - 60.0% of mass 95	41.7
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	5.7
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	60.2
175	5.0 - 9.0% of mass 174	4.1 (6.7)1
176	95.0 - 101.0% of mass 174	58.8 (97.6)1
177	5.0 - 9.0% of mass 176	3.6 (6.1)2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD005	VSTD005	LNK005AHV	10/19/98	0748
02	VBLK08	VBLK08	LNKB001AV	10/19/98	0828
03	LNKA LCS	LNKA LCS	LNK005AQV	10/19/98	0855
04	VSBLK01	366818	L366818I2V	10/19/98	0949
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FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011
 Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70741
 Lab File ID: VLA005PV BFB Injection Date: 09/24/98
 Instrument ID: V BFB Injection Time: 1405
 GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.9
75	30.0 - 60.0% of mass 95	44.8
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.1
173	Less than 2.0% of mass 174	0.3 (0.5)1
174	50.0 - 120.0% of mass 95	63.3
175	5.0 - 9.0% of mass 174	4.3 (6.8)1
176	95.0 - 101.0% of mass 174	63.9 (101.0)1
177	5.0 - 9.0% of mass 176	4.1 (6.4)2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD001	VSTD001	VLA001HV	09/24/98	1445
02	VSTD005	VSTD005	VLA005HV	09/24/98	1534
03	VSTD010	VSTD010	VLA010HV	09/24/98	1558
04	VSTD025	VSTD025	VLA025HV	09/24/98	1622
05	VSTD002	VSTD002	VLA002H3V	09/24/98	2319
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FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011
 Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70741
 Lab File ID: VLA007FV BFB Injection Date: 09/27/98
 Instrument ID: V BFB Injection Time: 1324
 GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.1
75	30.0 - 60.0% of mass 95	46.8
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.4 (0.7)1
174	50.0 - 120.0% of mass 95	67.5
175	5.0 - 9.0% of mass 174	4.6 (6.9)1
176	95.0 - 101.0% of mass 174	67.0 (99.3)1
177	5.0 - 9.0% of mass 176	4.7 (7.1)2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD005	VSTD005	VLA005BH2V	09/27/98	1420
02	VBLKF8	VBLKF8	VLAB001BV	09/27/98	1459
03	VLAB LCS	VLAB LCS	VLA005BQV	09/27/98	1527
04	AL207	366810	V366810DV	09/27/98	1740
05	AL208	366812	V366812V	09/27/98	1818
06	AL210	366814	V366814DV	09/27/98	1842
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FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70741

Lab File ID: VLA008PV BFB Injection Date: 09/28/98

Instrument ID: V BFB Injection Time: 0745

GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.5
75	30.0 - 60.0% of mass 95	46.3
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	68.3
175	5.0 - 9.0% of mass 174	5.0 (7.3)1
176	95.0 - 101.0% of mass 174	66.0 (96.6)1
177	5.0 - 9.0% of mass 176	4.5 (6.8)2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD005	VSTD005	VLA005CHV	09/28/98	0755
02	VBLKG4	VBLKG4	VLAB001CV	09/28/98	0841
03	VLAC LCS	VLAC LCS	VLA005CQV	09/28/98	0908
04	AL811	366946	V366946I2V	09/28/98	1016
05	AL211	366816	V366816V	09/28/98	1103
06	AL812	366954	V366954V	09/28/98	1305
07	AL210RE	366814R1	L366814I3DV	09/28/98	1337
08	AL213MS	366948MS	V366948MSI2DV	09/28/98	1425
09	AL213MSD	366948MD	V366948MDI2DV	09/28/98	1449
10	AL213	366948	V366948I3DV	09/28/98	1652
11	AL814	366950	V366950I2DV	09/28/98	1716
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FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011
 Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70741
 Lab File ID: VLA009PV BFB Injection Date: 09/29/98
 Instrument ID: V BFB Injection Time: 0800
 GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	17.5
75	30.0 - 60.0% of mass 95	46.8
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.2 (0.3)1
174	50.0 - 120.0% of mass 95	69.5
175	5.0 - 9.0% of mass 174	5.0 (7.2)1
176	95.0 - 101.0% of mass 174	67.1 (96.5)1
177	5.0 - 9.0% of mass 176	4.4 (6.5)2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD005	VSTD005	VLA005DHV	09/29/98	0807
02	VLAD LCS	VLAD LCS	VLA005DQV	09/29/98	0919
03	VBLKG9	VBLKG9	VLAB003DV	09/29/98	1036
04	AL212	366952	V366952D3V	09/29/98	1320
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VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70741

Instrument ID: L Calibration Date(s): 10/12/98 10/12/98

Heated Purge: (Y/N) N Calibration Time(s): 1804 1942

GC Column: CAP ID: 0.53 (mm)

LAB FILE ID:	RRF1 =LNK001H2V	RRF2 =LNK002H2V	RRF5 =LNK005H2V	RRF10 =LNK010H2V	RRF25 =LNK025H2V	RRF	% RSD
COMPOUND	RRF1	RRF2	RRF5	RRF10	RRF25	RRF	% RSD
Chloromethane	0.268	0.243	0.225	0.213	0.208	0.231	10.5
Bromomethane	* 0.230	0.218	0.210	0.202	0.196	0.211	6.3*
Vinyl Chloride	* 0.275	0.253	0.236	0.242	0.246	0.250	6.0*
Chloroethane	0.182	0.182	0.163	0.170	0.116	0.163	16.7
Methylene Chloride	0.354	0.308	0.303	0.306	0.293	0.313	7.5
Acetone	0.073	0.066	0.060	0.063	0.057	0.064	9.7
Carbon Disulfide	0.852	0.757	0.778	0.779	0.733	0.780	5.7
1,1-Dichloroethene	* 0.307	0.295	0.290	0.302	0.289	0.297	2.7*
1,1-Dichloroethane	* 0.664	0.646	0.631	0.616	0.588	0.629	4.6*
cis-1,2-Dichloroethene	0.362	0.361	0.372	0.362	0.351	0.362	2.1
trans-1,2-Dichloroethene	0.368	0.348	0.348	0.333	0.328	0.345	4.5
Chloroform	* 0.685	0.690	0.659	0.668	0.636	0.668	3.2*
1,2-Dichloroethane	* 0.366	0.388	0.381	0.376	0.358	0.374	3.1*
2-Butanone	0.128	0.122	0.121	0.128	0.120	0.124	3.4
Bromochloromethane	* 0.186	0.176	0.188	0.183	0.178	0.182	2.7*
1,1,1-Trichloroethane	* 0.676	0.638	0.625	0.618	0.600	0.631	4.5*
Carbon Tetrachloride	* 0.572	0.520	0.535	0.509	0.499	0.527	5.4*
Bromodichloromethane	* 0.756	0.762	0.757	0.737	0.722	0.747	2.3*
1,2-Dichloropropane	0.470	0.476	0.467	0.452	0.450	0.463	2.5
cis-1,3-Dichloropropene	* 0.659	0.617	0.645	0.632	0.632	0.637	2.5*
Trichloroethene	* 0.489	0.494	0.491	0.482	0.469	0.485	2.1*
Dibromochloromethane	* 0.538	0.530	0.542	0.534	0.529	0.535	1.0*
1,1,2-Trichloroethane	* 0.382	0.398	0.401	0.392	0.382	0.391	2.2*
Benzene	* 1.209	1.153	1.169	1.128	1.099	1.152	3.6*
trans-1,3-Dichloropropene	* 0.521	0.535	0.523	0.521	0.539	0.528	1.6*
Bromoform	* 0.349	0.364	0.388	0.393	0.391	0.377	5.1*
4-Methyl-2-Pentanone	0.325	0.350	0.369	0.386	0.359	0.358	6.3
2-Hexanone	0.174	0.194	0.221	0.237	0.233	0.212	12.7
Tetrachloroethene	* 0.482	0.482	0.484	0.474	0.468	0.478	1.4*
1,1,2,2-Tetrachloroethane	* 0.640	0.629	0.634	0.623	0.595	0.624	2.8*
1,2-Dibromoethane	* 0.500	0.512	0.522	0.520	0.512	0.513	1.6*
Toluene	* 1.282	1.295	1.291	1.276	1.245	1.278	1.6*
Chlorobenzene	* 0.945	0.942	0.958	0.949	0.937	0.946	0.9*
Ethylbenzene	* 1.573	1.632	1.596	1.569	1.560	1.586	1.8*
Styrene	* 0.944	0.987	1.001	1.000	0.988	0.984	2.4*
Xylene (total)	* 0.584	0.567	0.585	0.572	0.570	0.576	1.5*
1,3-Dichlorobenzene	* 1.452	1.450	1.442	1.435	1.479	1.452	1.2*

* Compounds with required minimum RRF and maximum %RSD values.

All other compounds must meet a minimum RRF of 0.010.

-VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70741

Instrument ID: L Calibration Date(s): 10/12/98 10/12/98

Heated Purge: (Y/N) N Calibration Time(s): 1804 1942

GC Column: CAP ID: 0.53 (mm)

LAB FILE ID: RRF1 =LNK001H2V RRF2 =LNK002H2V
 RRF5 =LNK005H2V RRF10 =LNK010H2V RRF25 =LNK025H2V

COMPOUND	RRF1	RRF2	RRF5	RRF10	RRF25	RRF	%RSD
1,4-Dichlorobenzene	* 1.662	1.619	1.727	1.646	1.559	1.643	3.7*
1,2-Dichlorobenzene	* 1.418	1.355	1.371	1.366	1.339	1.370	2.2*
1,2-Dibromo-3-chloropropane	0.280	0.264	0.260	0.262	0.247	0.263	4.5
Methyl-t-Butyl Ether	0.886	0.870	0.829	0.837	0.788	0.842	4.5
4-Bromofluorobenzene	* 0.229	0.218	0.214	0.225	0.215	0.220	2.9*

* Compounds with required minimum RRF and maximim %RSD values. All other compounds must meet a minimim RRF of 0.010.

6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70741

Instrument ID: V Calibration Date(s): 09/24/98 09/24/98

Heated Purge: (Y/N) N Calibration Time(s): 1445 2319

GC Column: DB-624 ID: 0.53 (mm)

LAB FILE ID:	RRF1 =VLA001HV	RRF2 =VLA002H3V	RRF5 =VLA005HV	RRF10 =VLA010HV	RRF25 =VLA025HV	RRF	% RSD
COMPOUND	RRF1	RRF2	RRF5	RRF10	RRF25	RRF	% RSD
Chloromethane	0.180	0.223	0.198	0.181	0.180	0.192	9.7
Bromomethane	* 0.120	0.196	0.125	0.120	0.122	0.137	24.2*
Vinyl Chloride	* 0.208	0.238	0.213	0.207	0.213	0.216	6.0*
Chloroethane	0.155	0.171	0.159	0.162	0.102	0.150	18.4
Methylene Chloride	0.325	0.303	0.308	0.303	0.277	0.303	5.7
Acetone	0.076	0.068	0.053	0.058	0.045	0.060	20.7
Carbon Disulfide	0.744	0.949	0.747	0.778	0.777	0.799	10.7
1,1-Dichloroethene	* 0.207	0.298	0.262	0.268	0.261	0.259	12.7*
1,1-Dichloroethane	* 0.530	0.622	0.534	0.562	0.526	0.555	7.3*
cis-1,2-Dichloroethene	0.287	0.343	0.338	0.334	0.306	0.322	7.5
trans-1,2-Dichloroethene	0.257	0.317	0.270	0.292	0.284	0.284	8.0
Chloroform	* 0.609	0.732	0.689	0.698	0.629	0.671	7.6*
1,2-Dichloroethane	* 0.334	0.395	0.362	0.353	0.317	0.352	8.4*
2-Butanone	0.103	0.111	0.109	0.096	0.084	0.101	11.1
Bromochloromethane	* 0.210	0.225	0.228	0.239	0.207	0.222	6.0*
1,1,1-Trichloroethane	* 0.659	0.873	0.598	0.620	0.713	0.693	15.8*
Carbon Tetrachloride	* 0.552	0.822	0.540	0.566	0.676	0.631	18.9*
Bromodichloromethane	* 0.670	0.913	0.675	0.710	0.758	0.745	13.4*
1,2-Dichloropropane	0.363	0.503	0.379	0.389	0.414	0.410	13.5
cis-1,3-Dichloropropene	* 0.493	0.746	0.522	0.555	0.609	0.585	17.0*
Trichloroethene	* 0.462	0.557	0.445	0.471	0.512	0.489	9.2*
Dibromochloromethane	* 0.625	0.744	0.621	0.648	0.701	0.668	8.0*
1,1,2-Trichloroethane	* 0.354	0.445	0.348	0.351	0.368	0.373	11.0*
Benzene	* 0.928	1.287	1.012	1.022	1.079	1.066	12.7*
trans-1,3-Dichloropropene	* 0.450	0.622	0.451	0.472	0.534	0.506	14.5*
Bromoform	* 0.415	0.498	0.440	0.476	0.522	0.470	9.2*
4-Methyl-2-Pentanone	0.292	0.355	0.299	0.323	0.282	0.310	9.5
2-Hexanone	0.197	0.224	0.225	0.224	0.200	0.214	6.7
Tetrachloroethene	* 0.554	0.619	0.554	0.574	0.604	0.581	5.1*
1,1,2,2-Tetrachloroethane	* 0.583	0.650	0.600	0.619	0.592	0.609	4.4*
1,2-Dibromoethane	* 0.530	0.633	0.512	0.547	0.580	0.560	8.5*
Toluene	* 1.177	1.342	1.198	1.232	1.247	1.239	5.1*
Chlorobenzene	* 0.987	1.062	0.966	1.009	0.972	0.999	3.9*
Ethylbenzene	* 1.638	1.718	1.697	1.692	1.635	1.676	2.2*
Styrene	* 0.861	0.959	0.950	0.956	0.991	0.943	5.2*
Xylene (total)	* 0.549	0.583	0.594	0.584	0.583	0.579	3.0*
1,3-Dichlorobenzene	* 1.374	1.417	1.428	1.374	1.449	1.408	2.4*

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70741

Instrument ID: L Calibration Date: 10/19/98 Time: 0748

Lab File ID: LNK005AHV Init. Calib. Date(s): 10/12/98 10/12/98

Heated Purge: (Y/N) N Init. Calib. Times: 1804 1942

GC Column: CAP ID: 0.53 (mm)

COMPOUND	RRF	RRF5	MIN RRF	%D	MAX %D
Chloromethane	0.231	0.251	0.01	-8.6	40.0
Bromomethane	0.211	0.194	0.1	8.0	30.0
Vinyl Chloride	0.250	0.264	0.1	-5.6	30.0
Chloroethane	0.163	0.183	0.01	-12.3	40.0
Methylene Chloride	0.313	0.318	0.01	-1.6	40.0
Acetone	0.064	0.058	0.01	9.4	40.0
Carbon Disulfide	0.780	0.817	0.01	-4.7	40.0
1,1-Dichloroethene	0.297	0.304	0.1	-2.4	30.0
1,1-Dichloroethane	0.629	0.634	0.2	-0.8	30.0
cis-1,2-Dichloroethene	0.362	0.367	0.01	-1.4	40.0
trans-1,2-Dichloroethene	0.345	0.362	0.01	-4.9	40.0
Chloroform	0.668	0.667	0.2	0.1	30.0
1,2-Dichloroethane	0.374	0.373	0.1	0.3	30.0
2-Butanone	0.124	0.119	0.01	4.0	40.0
Bromochloromethane	0.182	0.182	0.05	0.0	30.0
1,1,1-Trichloroethane	0.631	0.685	0.1	-8.6	30.0
Carbon Tetrachloride	0.527	0.560	0.1	-6.3	30.0
Bromodichloromethane	0.747	0.732	0.2	2.0	30.0
1,2-Dichloropropane	0.463	0.479	0.01	-3.4	40.0
cis-1,3-Dichloropropene	0.637	0.647	0.2	-1.6	30.0
Trichloroethene	0.485	0.479	0.3	1.2	30.0
Dibromochloromethane	0.535	0.457	0.1	14.6	30.0
1,1,2-Trichloroethane	0.391	0.385	0.1	1.5	30.0
Benzene	1.152	1.145	0.5	0.6	30.0
trans-1,3-Dichloropropene	0.528	0.535	0.1	-1.3	30.0
Bromoform	0.377	0.274	0.05	27.3	30.0
4-Methyl-2-Pentanone	0.358	0.343	0.01	4.2	40.0
2-Hexanone	0.212	0.202	0.01	4.7	40.0
Tetrachloroethene	0.478	0.452	0.2	5.4	30.0
1,1,2,2-Tetrachloroethane	0.624	0.616	0.1	1.3	30.0
1,2-Dibromoethane	0.513	0.507	0.1	1.2	30.0
Toluene	1.278	1.286	0.4	-0.6	30.0
Chlorobenzene	0.946	0.945	0.5	0.1	30.0
Ethylbenzene	1.586	1.567	0.1	1.2	30.0
Styrene	0.984	0.971	0.3	1.3	30.0
Xylene (total)	0.576	0.570	0.3	1.0	30.0
1,3-Dichlorobenzene	1.452	1.497	0.6	-3.1	30.0

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70741

Instrument ID: L Calibration Date: 10/19/98 Time: 0748

Lab File ID: LNK005AHV Init. Calib. Date(s): 10/12/98 10/12/98

Heated Purge: (Y/N) N Init. Calib. Times: 1804 1942

GC Column: CAP ID: 0.53 (mm)

COMPOUND	\overline{RRF}	RRF5	MIN RRF	%D	MAX %D
1,4-Dichlorobenzene	1.643	1.554	0.5	5.4	30.0
1,2-Dichlorobenzene	1.370	1.334	0.4	2.6	30.0
1,2-Dibromo-3-chloropropane	0.263	0.251	0.01	4.6	40.0
Methyl-t-Butyl Ether	0.842	0.842	0.01	0.0	30.0
4-Bromofluorobenzene	0.220	0.218	0.2	0.9	30.0

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011
 Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70741
 Instrument ID: V Calibration Date: 09/27/98 Time: 1420
 Lab File ID: VLA005BH2V Init. Calib. Date(s): 09/24/98 09/24/98
 Heated Purge: (Y/N) N Init. Calib. Times: 1445 2319
 GC Column: DB-624 ID: 0.53 (mm)

COMPOUND	RRF	RRF5	MIN RRF	%D	MAX %D
Chloromethane	0.192	0.178	0.01	7.3	40.0
Bromomethane	0.137	0.130	0.1	5.1	30.0
Vinyl Chloride	0.216	0.201	0.1	6.9	30.0
Chloroethane	0.150	0.157	0.01	-4.7	40.0
Methylene Chloride	0.303	0.282	0.01	6.9	40.0
Acetone	0.060	0.059	0.01	1.7	40.0
Carbon Disulfide	0.799	0.748	0.01	6.4	40.0
1,1-Dichloroethene	0.259	0.256	0.1	1.2	30.0
1,1-Dichloroethane	0.555	0.569	0.2	-2.5	30.0
cis-1,2-Dichloroethene	0.322	0.318	0.01	1.2	40.0
trans-1,2-Dichloroethene	0.284	0.296	0.01	-4.2	40.0
Chloroform	0.671	0.666	0.2	0.7	30.0
1,2-Dichloroethane	0.352	0.372	0.1	-5.7	30.0
2-Butanone	0.101	0.102	0.01	-1.0	40.0
Bromochloromethane	0.222	0.233	0.05	-5.0	30.0
1,1,1-Trichloroethane	0.693	0.739	0.1	-6.6	30.0
Carbon Tetrachloride	0.631	0.686	0.1	-8.7	30.0
Bromodichloromethane	0.745	0.816	0.2	-9.5	30.0
1,2-Dichloropropane	0.410	0.425	0.01	-3.6	40.0
cis-1,3-Dichloropropene	0.585	0.671	0.2	-14.7	30.0
Trichloroethene	0.489	0.502	0.3	-2.6	30.0
Dibromochloromethane	0.668	0.759	0.1	-13.6	30.0
1,1,2-Trichloroethane	0.373	0.416	0.1	-11.5	30.0
Benzene	1.066	1.112	0.5	-4.3	30.0
trans-1,3-Dichloropropene	0.506	0.579	0.1	-14.4	30.0
Bromoform	0.470	0.559	0.05	-18.9	30.0
4-Methyl-2-Pentanone	0.310	0.317	0.01	-2.2	40.0
2-Hexanone	0.214	0.220	0.01	-2.8	40.0
Tetrachloroethene	0.581	0.567	0.2	2.4	30.0
1,1,2,2-Tetrachloroethane	0.609	0.652	0.1	-7.1	30.0
1,2-Dibromoethane	0.560	0.632	0.1	-12.8	30.0
Toluene	1.239	1.178	0.4	4.9	30.0
Chlorobenzene	0.999	0.940	0.5	5.9	30.0
Ethylbenzene	1.676	1.515	0.1	9.6	30.0
Styrene	0.943	0.911	0.3	3.4	30.0
Xylene (total)	0.579	0.566	0.3	2.2	30.0
1,3-Dichlorobenzene	1.408	1.378	0.6	2.1	30.0

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70741

Instrument ID: V Calibration Date: 09/27/98 Time: 1420

Lab File ID: VLA005BH2V Init. Calib. Date(s): 09/24/98 09/24/98

Heated Purge: (Y/N) N Init. Calib. Times: 1445 2319

GC Column: DB-624 ID: 0.53 (mm)

COMPOUND	\overline{RRF}	RRF5	MIN RRF	%D	MAX %D
1,4-Dichlorobenzene	1.781	1.664	0.5	6.6	30.0
1,2-Dichlorobenzene	1.368	1.360	0.4	0.6	30.0
1,2-Dibromo-3-chloropropane	0.236	0.242	0.01	-2.5	40.0
4-Bromofluorobenzene	0.260	0.248	0.2	4.6	30.0

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70741

Instrument ID: V Calibration Date: 09/28/98 Time: 0755

Lab File ID: VLA005CHV Init. Calib. Date(s): 09/24/98 09/24/98

Heated Purge: (Y/N) N Init. Calib. Times: 1445 2319

GC Column: DB-624 ID: 0.53 (mm)

COMPOUND	RRF	RRF5	MIN RRF	%D	MAX %D
Chloromethane	0.192	0.179	0.01	6.8	40.0
Bromomethane	0.137	0.138	0.1	-0.7	30.0
Vinyl Chloride	0.216	0.222	0.1	-2.8	30.0
Chloroethane	0.150	0.154	0.01	-2.7	40.0
Methylene Chloride	0.303	0.292	0.01	3.6	40.0
Acetone	0.060	0.056	0.01	6.7	40.0
Carbon Disulfide	0.799	0.790	0.01	1.1	40.0
1,1-Dichloroethene	0.259	0.273	0.1	-5.4	30.0
1,1-Dichloroethane	0.555	0.592	0.2	-6.7	30.0
cis-1,2-Dichloroethene	0.322	0.342	0.01	-6.2	40.0
trans-1,2-Dichloroethene	0.284	0.298	0.01	-4.9	40.0
Chloroform	0.671	0.728	0.2	-8.5	30.0
1,2-Dichloroethane	0.352	0.408	0.1	-15.9	30.0
2-Butanone	0.101	0.112	0.01	-10.9	40.0
Bromochloromethane	0.222	0.217	0.05	2.2	30.0
1,1,1-Trichloroethane	0.693	0.822	0.1	-18.6	30.0
Carbon Tetrachloride	0.631	0.754	0.1	-19.5	30.0
Bromodichloromethane	0.745	0.897	0.2	-20.4	30.0
1,2-Dichloropropane	0.410	0.456	0.01	-11.2	40.0
cis-1,3-Dichloropropene	0.585	0.706	0.2	-20.7	30.0
Trichloroethene	0.489	0.528	0.3	-8.0	30.0
Dibromochloromethane	0.668	0.789	0.1	-18.1	30.0
1,1,2-Trichloroethane	0.373	0.417	0.1	-11.8	30.0
Benzene	1.066	1.178	0.5	-10.5	30.0
trans-1,3-Dichloropropene	0.506	0.646	0.1	-27.7	30.0
Bromoform	0.470	0.550	0.05	-17.0	30.0
4-Methyl-2-Pentanone	0.310	0.350	0.01	-12.9	40.0
2-Hexanone	0.214	0.234	0.01	-9.3	40.0
Tetrachloroethene	0.581	0.576	0.2	0.9	30.0
1,1,2,2-Tetrachloroethane	0.609	0.666	0.1	-9.4	30.0
1,2-Dibromoethane	0.560	0.650	0.1	-16.1	30.0
Toluene	1.239	1.254	0.4	-1.2	30.0
Chlorobenzene	0.999	0.980	0.5	1.9	30.0
Ethylbenzene	1.676	1.605	0.1	4.2	30.0
Styrene	0.943	0.935	0.3	0.8	30.0
Xylene (total)	0.579	0.563	0.3	2.8	30.0
1,3-Dichlorobenzene	1.408	1.375	0.6	2.3	30.0

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70741

Instrument ID: V Calibration Date: 09/28/98 Time: 0755

Lab File ID: VLA005CHV Init. Calib. Date(s): 09/24/98 09/24/98

Heated Purge: (Y/N) N Init. Calib. Times: 1445 2319

GC Column: DB-624 ID: 0.53 (mm)

COMPOUND	\overline{RRF}	RRF5	MIN RRF	%D	MAX %D
1,4-Dichlorobenzene	1.781	1.809	0.5	-1.6	30.0
1,2-Dichlorobenzene	1.368	1.399	0.4	-2.3	30.0
1,2-Dibromo-3-chloropropane	0.236	0.252	0.01	-6.8	40.0
4-Bromofluorobenzene	0.260	0.251	0.2	3.5	30.0

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70741

Instrument ID: V Calibration Date: 09/29/98 Time: 0807

Lab File ID: VLA005DHV Init. Calib. Date(s): 09/24/98 09/24/98

Heated Purge: (Y/N) N Init. Calib. Times: 1445 2319

GC Column: DB-624 ID: 0.53 (mm)

COMPOUND	RRF	RRF5	MIN RRF	%D	MAX %D
Chloromethane	0.192	0.196	0.01	-2.1	40.0
Bromomethane	0.137	0.158	0.1	-15.3	30.0
Vinyl Chloride	0.216	0.224	0.1	-3.7	30.0
Chloroethane	0.150	0.162	0.01	-8.0	40.0
Methylene Chloride	0.303	0.288	0.01	5.0	40.0
Acetone	0.060	0.056	0.01	6.7	40.0
Carbon Disulfide	0.799	0.788	0.01	1.4	40.0
1,1-Dichloroethene	0.259	0.244	0.1	5.8	30.0
1,1-Dichloroethane	0.555	0.497	0.2	10.4	30.0
cis-1,2-Dichloroethene	0.322	0.286	0.01	11.2	40.0
trans-1,2-Dichloroethene	0.284	0.249	0.01	12.3	40.0
Chloroform	0.671	0.612	0.2	8.8	30.0
1,2-Dichloroethane	0.352	0.325	0.1	7.7	30.0
2-Butanone	0.101	0.103	0.01	-2.0	40.0
Bromochloromethane	0.222	0.207	0.05	6.8	30.0
1,1,1-Trichloroethane	0.693	0.654	0.1	5.6	30.0
Carbon Tetrachloride	0.631	0.602	0.1	4.6	30.0
Bromodichloromethane	0.745	0.711	0.2	4.6	30.0
1,2-Dichloropropane	0.410	0.384	0.01	6.3	40.0
cis-1,3-Dichloropropene	0.585	0.567	0.2	3.1	30.0
Trichloroethene	0.489	0.466	0.3	4.7	30.0
Dibromochloromethane	0.668	0.692	0.1	-3.6	30.0
1,1,2-Trichloroethane	0.373	0.355	0.1	4.8	30.0
Benzene	1.066	1.047	0.5	1.8	30.0
trans-1,3-Dichloropropene	0.506	0.513	0.1	-1.4	30.0
Bromoform	0.470	0.504	0.05	-7.2	30.0
4-Methyl-2-Pentanone	0.310	0.308	0.01	0.6	40.0
2-Hexanone	0.214	0.215	0.01	-0.5	40.0
Tetrachloroethene	0.581	0.509	0.2	12.4	30.0
1,1,2,2-Tetrachloroethane	0.609	0.617	0.1	-1.3	30.0
1,2-Dibromoethane	0.560	0.558	0.1	0.4	30.0
Toluene	1.239	1.082	0.4	12.7	30.0
Chlorobenzene	0.999	0.861	0.5	13.8	30.0
Ethylbenzene	1.676	1.451	0.1	13.4	30.0
Styrene	0.943	0.876	0.3	7.1	30.0
Xylene (total)	0.579	0.524	0.3	9.5	30.0
1,3-Dichlorobenzene	1.408	1.205	0.6	14.4	30.0

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70741

Instrument ID: V Calibration Date: 09/29/98 Time: 0807

Lab File ID: VLA005DHV Init. Calib. Date(s): 09/24/98 09/24/98

Heated Purge: (Y/N) N Init. Calib. Times: 1445 2319

GC Column: DB-624 ID: 0.53 (mm)

COMPOUND	\overline{RRF}	RRF5	MIN RRF	%D	MAX %D
1,4-Dichlorobenzene	1.781	1.559	0.5	12.5	30.0
1,2-Dichlorobenzene	1.368	1.251	0.4	8.6	30.0
1,2-Dibromo-3-chloropropane	0.236	0.225	0.01	4.7	40.0
4-Bromofluorobenzene	0.260	0.258	0.2	0.8	30.0

FORM 8
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011
 Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70741
 Lab File ID (Standard): LNK005AHV Date Analyzed: 10/19/98
 Instrument ID: L Time Analyzed: 0748
 GC Column: CAP ID: 0.53 (mm) Heated Purge: (Y/N) N

	IS1 (DFB) AREA #	RT #	IS2 (CBZ) AREA #	RT #	IS3 (DCB) AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	462644	8.26	404578	11.93	203361	14.76
UPPER LIMIT	647702	8.59	566409	12.26	284705	15.10
LOWER LIMIT	277586	7.93	242747	11.60	122017	14.43
=====	=====	=====	=====	=====	=====	=====
CLIENT SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 VBLK08	491967	8.27	423664	11.94	222608	14.77
02 LNKA LCS	485768	8.28	411074	11.94	216877	14.76
03 VSBLK01	508213	8.26	426885	11.94	219549	14.75
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IS1 (DFB) = 1,4-Difluorobenzene
 IS2 (CBZ) = Chlorobenzene-d5
 IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = + 40% of internal standard area
 AREA LOWER LIMIT = - 40% of internal standard area
 RT UPPER LIMIT = + 0.33 minutes of internal standard RT
 RT LOWER LIMIT = - 0.33 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

FORM 8
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011
 Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70741
 Lab File ID (Standard): VLA005BH2V Date Analyzed: 09/27/98
 Instrument ID: V Time Analyzed: 1420
 GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

	IS1 (DFB)	RT #	IS2 (CBZ)	RT #	IS3 (DCB)	RT #
	AREA #		AREA #		AREA #	
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	780449	8.80	653621	12.40	418555	15.19
UPPER LIMIT	1092629	9.14	915069	12.73	585977	15.52
LOWER LIMIT	468269	8.47	392173	12.06	251133	14.86
=====	=====	=====	=====	=====	=====	=====
CLIENT						
SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 VBLKF8	636381	8.81	552996	12.42	376289	15.19
02 VLAB LCS	668069	8.81	637747	12.42	382143	15.19
03 AL207	702424	8.80	610406	12.41	390883	15.19
04 AL208	635015	8.80	610983	12.41	372523	15.19
05 AL210	585292	8.80	597434	12.41	358407	15.19
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FORM 8
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70741

Lab File ID (Standard): VLA005CHV Date Analyzed: 09/28/98

Instrument ID: V Time Analyzed: 0755

GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

	IS1 (DFB) AREA #	RT #	IS2 (CBZ) AREA #	RT #	IS3 (DCB) AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	795149	8.77	653919	12.38	408384	15.17
UPPER LIMIT	1113209	9.10	915487	12.71	571738	15.51
LOWER LIMIT	477089	8.44	392351	12.05	245030	14.84
=====	=====	=====	=====	=====	=====	=====
CLIENT SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 VBLKG4	961947	8.79	748133	12.39	440270	15.17
02 VLAC LCS	809259	8.79	707490	12.40	394657	15.17
03 AL811	741954	8.79	598446	12.40	397603	15.17
04 AL211	719573	8.79	650837	12.40	380781	15.17
05 AL812	600591	8.80	554796	12.39	366159	15.19
06 AL210RE	549862	8.80	491491	12.40	355737	15.19
07 AL213MS	574179	8.79	564957	12.40	370866	15.19
08 AL213MSD	624185	8.79	593443	12.40	372645	15.17
09 AL213	682617	8.80	646664	12.40	404025	15.19
10 AL814	600155	8.79	516058	12.40	341535	15.17
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FORM 8
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011
 Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70741
 Lab File ID (Standard): VLA005DHV Date Analyzed: 09/29/98
 Instrument ID: V Time Analyzed: 0807
 GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

		IS1 (DFB)		IS2 (CBZ)		IS3 (DCB)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
=====		=====	=====	=====	=====	=====	=====
	12 HOUR STD	690086	8.79	610291	12.38	416029	15.17
	UPPER LIMIT	966120	9.12	854407	12.71	582441	15.50
	LOWER LIMIT	414052	8.45	366175	12.05	249617	14.84
=====		=====	=====	=====	=====	=====	=====
CLIENT							
SAMPLE NO.							
=====		=====	=====	=====	=====	=====	=====
01	VLAD LCS	628639	8.79	600923	12.42	382780	15.19
02	VBLKG9	636557	8.80	538884	12.40	369837	15.17
03	AL212	551119	8.80	539498	12.39	330265	15.17
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Severn Trent Laboratories
55 South Park Drive
Colchester VT 05446
Tel: (802) 655-1203
Fax: (802) 655-1248

Analytical Report

Parsons Engineering Science
Attn: Accounts Payable
30 Dan Road
Canton, MA 02021

Attention : Mike Duchesneau

Date : 10/22/98
ETR Number : 70741
Project No.: 98011
No. Samples: 9
Arrived : 09/22/98
P.O. Number: 73076930004

Page 1

Case:98011 SDG:70741 Job:ASH

Standard analyses were performed in accordance with Methods for Analysis of Water and Wastes, EPA-600/4/79-020, Test Methods for Evaluating Solid Waste, SW-846, or Standard Methods for the Examination of Water and Wastewater. All results are in mg/l unless otherwise noted.

Lab No./ Method No.	Sample Description/ Parameter	Result
366810	AL207:09/20/98 @1120(Water)	
310.1	Alkalinity (as CaCO3)	356
300.0	Chloride	106
300.0	Sulfate	358
353.2	Nitrate/Nitrite Nitrogen	0.03
366811	AL207F:09/20/98 @1120(Filtrate)	
9060	Total Organic Carbon	7.3
366812	AL208:09/20/98 @1225(Water)	
310.1	Alkalinity (as CaCO3)	350
300.0	Chloride	13.4
300.0	Sulfate	58.0
353.2	Nitrate/Nitrite Nitrogen	<0.01
366813	AL208F:09/20/98 @1225(Filtrate)	
9060	Total Organic Carbon	2.7
366814	AL210:09/20/98 @1440(Water)	
310.1	Alkalinity (as CaCO3)	212
300.0	Chloride	421
300.0	Sulfate	816
353.2	Nitrate/Nitrite Nitrogen	<0.01
366815	AL210F:09/20/98 @1440(Filtrate)	
9060	Total Organic Carbon	8.5
366816	AL211:09/20/98 @1555(Water)	
310.1	Alkalinity (as CaCO3)	250
300.0	Chloride	123

< Cont. Next Page >



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Severn Trent Laboratories
55 South Park Drive
Colchester VT 05446
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Fax: (802) 655-1248

Analytical Report

Parsons Engineering Science
Attn: Accounts Payable
30 Dan Road
Canton, MA 02021

Attention : Mike Duchesneau

Date : 10/22/98
ETR Number : 70741
Project No.: 98011
No. Samples: 9
Arrived : 09/22/98
P.O. Number: 73076930004

Page 2

Case:98011 SDG:70741 Job:ASH

Standard analyses were performed in accordance with Methods for Analysis of Water and Wastes, EPA-600/4/79-020, Test Methods for Evaluating Solid Waste, SW-846, or Standard Methods for the Examination of Water and Wastewater. All results are in mg/l unless otherwise noted.

Lab No./ Method No.	Sample Description/ Parameter	Result
366816	AL211:09/20/98 @1555(Water)	
300.0	Sulfate	195
353.2	Nitrate/Nitrite Nitrogen	0.19
366817	AL211F:09/20/98 @1555(Filtrate)	
9060	Total Organic Carbon	4.7



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Analytical Report

Parsons Engineering Science
 Attn: Accounts Payable
 30 Dan Road
 Canton, MA 02021

Date : 10/22/98
 ETR Number : 70759
 Project No.: 98011
 No. Samples: 14
 Arrived : 09/23/98
 P.O. Number: 73076930004

Attention : Mike Duchesneau

Page 1

Case:98011 SDG:70741 Job:ASH

Standard analyses were performed in accordance with Methods for Analysis of Water and Wastes, EPA-600/4/79-020, Test Methods for Evaluating Solid Waste, SW-846, or Standard Methods for the Examination of Water and Wastewater. All results are in mg/l unless otherwise noted.

Lab No./ Method No.	Sample Description/ Parameter	Result
366948	AL213:09/21/98 @1445(Water)	
310.1	Alkalinity (as CaCO3)	310
300.0	Chloride	16.8
300.0	Sulfate	84.2
353.2	Nitrate/Nitrite Nitrogen	0.04
366949	AL213F:09/21/98 @1445(Filtrate)	
9060	Total Organic Carbon	6.2
366950	AL814:09/21/98 @1445(Water)	
310.1	Alkalinity (as CaCO3)	314
300.0	Chloride	16.6
300.0	Sulfate	84.4
353.2	Nitrate/Nitrite Nitrogen	0.04
366951	AL814F:09/21/98 @1445(Filtrate)	
9060	Total Organic Carbon	6.3
366952	AL212:09/21/98 @1250(Water)	
310.1	Alkalinity (as CaCO3)	520
300.0	Chloride	19.3
300.0	Sulfate	182
353.2	Nitrate/Nitrite Nitrogen	0.02
366953	AL212F:09/21/98 @1250(Filtrate)	
9060	Total Organic Carbon	5.4
366954	AL812:09/21/98 @0900(Water)	
310.1	Alkalinity (as CaCO3)	<1
300.0	Chloride	<0.25

< Cont. Next Page >



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Analytical Report

Parsons Engineering Science
Attn: Accounts Payable
30 Dan Road
Canton, MA 02021

Date : 10/22/98
ETR Number : 70759
Project No.: 98011
No. Samples: 14
Arrived : 09/23/98
P.O. Number: 73076930004

Attention : Mike Duchesneau

Page 2

Case:98011 SDG:70741 Job:ASH

Standard analyses were performed in accordance with Methods for Analysis of Water and Wastes, EPA-600/4/79-020, Test Methods for Evaluating Solid Waste, SW-846, or Standard Methods for the Examination of Water and Wastewater. All results are in mg/l unless otherwise noted.

Lab No./ Method No.	Sample Description/ Parameter	Result
366954	AL812:09/21/98 @0900(Water)	
	300.0 Sulfate	<0.25
	353.2 Nitrate/Nitrite Nitrogen	0.02
366955	AL812F:09/21/98 @0900(Filtrate)	
	9060 Total Organic Carbon	0.7
366957	AL205F:09/21/98 @0920(Filtrate)	
	9060 Total Organic Carbon	6.2

< Last Page >

Submitted By :

Aquatec Inc.

WET CHEMISTRY

Quality Control Summary

Project No: 98011
 SDG No: 70741
 Units: mg/L

Parameter	Date Analyzed	Method Preparation Blank	Laboratory Control Sample		
			Reported Value	True Value	Percent Recovery
Alkalinity (as CaCO ₃)	09/28/98	< 1	124	118	105.1
Chloride by IC	10/01/98	<0.25	4.89	5.00	97.8
Chloride by IC	10/13/98	<0.25	4.77	5.00	95.4
Nitrate/Nitrite-Nitrogen	09/24/98	< 0.01	7.40	7.32	101.1
Nitrate/Nitrite-Nitrogen	10/21/98	< 0.01	6.90	7.32	94.3
Sulfate by IC	10/01/98	<0.25	9.86	10.00	98.6
Sulfate by IC	10/13/98	<0.25	9.93	10.00	99.3
Total Organic Carbon	09/29/98	< 0.5	58.0	61.9	93.7

Reviewed By:	<u>JPD</u>
Date:	<u>10/22/98</u>

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: SEVERN_TRENT_LABORATORIES Contract: 98011_____
Lab Code: INCHVT Case No.: 98011 SAS No.: _____ SDG No.: 70741_
SOW No.: ILM03.0

EPA Sample No.	Lab Sample ID
AL210	366814
AL212	366952
AL813	366956
AL815	366947
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Were ICP interelement corrections applied ? Yes/No YES
Were ICP background corrections applied ? Yes/No YES
If yes - were raw data generated before application of background corrections ? Yes/No NO_

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: _____ Name: _____
Date: _____ Title: _____

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

AL210

Lab Name: SEVERN_TRENT_LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70741

Matrix (soil/water): WATER Lab Sample ID: 366814

Level (low/med): LOW Date Received: 09/22/98

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	0.80	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	2.2	U		P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	2.7	U		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese	2120			P
7439-97-6	Mercury				NR
7440-02-0	Nickel	3.6	U		P
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

AL212

Lab Name: SEVERN_TRENT_LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70741

Matrix (soil/water): WATER Lab Sample ID: 366952

Level (low/med): LOW Date Received: 09/23/98

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	0.80	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	2.2	U		P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	2.7	U		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese	320			P
7439-97-6	Mercury				NR
7440-02-0	Nickel	3.6	U		P
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

AL813

Lab Name: SEVERN_TRENT_LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70741

Matrix (soil/water): WATER Lab Sample ID: 366956

Level (low/med): LOW Date Received: 09/23/98

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	0.80	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	2.2	U		P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	2.7	U		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese	333			P
7439-97-6	Mercury				NR
7440-02-0	Nickel	3.6	U		P
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

AL815

Lab Name: SEVERN_TRENT_LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70741

Matrix (soil/water): WATER Lab Sample ID: 366947

Level (low/med): LOW Date Received: 09/23/98

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	0.80	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	2.2	U		P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	2.7	U		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese	1.9	U		P
7439-97-6	Mercury				NR
7440-02-0	Nickel	3.6	U		P
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:

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2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: SEVERN_TRENT_LABORATORIES Contract: 98011_____

Lab Code: INCHVT Case No.: 98011_ SAS No.: _____ SDG No.: 70741_

Initial Calibration Source: VENTURES_____

Continuing Calibration Source: SPEX_____

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum									NR
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium	500.0	501.40	100.3	100.0	100.30	100.3	103.70	103.7	P
Calcium									NR
Chromium	500.0	509.30	101.9	200.0	203.30	101.6	209.50	104.8	P
Cobalt									NR
Copper									NR
Iron									NR
Lead	1000.0	1014.00	101.4	400.0	402.00	100.5	412.60	103.2	P
Magnesium									NR
Manganese	500.0	499.40	99.9	200.0	203.40	101.7	209.20	104.6	P
Mercury									NR
Nickel	500.0	503.00	100.6	200.0	201.10	100.6	206.60	103.3	P
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Titanium									NR
Zinc									NR
Cyanide									NR

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: SEVERN_TRENT_LABORATORIES Contract: 98011_____

Lab Code: INCHVT Case No.: 98011_ SAS No.: _____ SDG No.: 70741_

Initial Calibration Source: VENTURES_____

Continuing Calibration Source: SPEX_____

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum									NR
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium				100.0	100.20	100.2			P
Calcium									NR
Chromium				200.0	203.50	101.8			P
Cobalt									NR
Copper									NR
Iron									NR
Lead				400.0	403.30	100.8			P
Magnesium									NR
Manganese				200.0	204.00	102.0			P
Mercury									NR
Nickel				200.0	202.30	101.2			P
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

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2B

CRDL STANDARD FOR AA AND ICP

Lab Name: SEVERN_TRENT_LABORATORIES

Contract: 98011_____

Lab Code: INCHVT

Case No.: 98011_

SAS No.: _____

SDG No.: 70741_

AA CRDL Standard Source: VENTURES_____

ICP CRDL Standard Source: VENTURES_____

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
	True	Found	%R	True	Initial Found	%R	Final Found	%R
Aluminum								
Antimony								
Arsenic								
Barium								
Beryllium								
Cadmium				10.0	10.35	103.5	10.41	104.1
Calcium								
Chromium				20.0	21.18	105.9	20.83	104.2
Cobalt								
Copper								
Iron								
Lead				6.0	8.20	136.7	5.97	99.5
Magnesium								
Manganese				30.0	30.60	102.0	30.97	103.2
Mercury								
Nickel				80.0	80.08	100.1	80.49	100.6
Potassium								
Selenium								
Silver								
Sodium								
Thallium								
Vanadium								
Zinc								

3
BLANKS

Lab Name: SEVERN_TRENT_LABORATORIES Contract: 98011_____

Lab Code: INCHVT Case No.: 98011_ SAS No.: _____ SDG No.: 70741_

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L_

Analyte	Initial Calib. Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		M
		C	1	C	2	C	3	C		C	
Aluminum											NR
Antimony											NR
Arsenic											NR
Barium											NR
Beryllium											NR
Cadmium	0.8	U	0.8	U	0.8	U	0.8	U	0.800	U	P
Calcium											NR
Chromium	2.2	U	2.2	U	2.2	U	2.2	U	2.200	U	P
Cobalt											NR
Copper											NR
Iron											NR
Lead	2.7	U	2.7	U	2.7	U	2.7	U	2.700	U	P
Magnesium											NR
Manganese	1.9	U	1.9	U	1.9	U	1.9	U	1.900	U	P
Mercury											NR
Nickel	3.6	U	3.6	U	3.6	U	3.6	U	3.600	U	P
Potassium											NR
Selenium											NR
Silver											NR
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc											NR
Cyanide											NR

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ICP INTERFERENCE CHECK SAMPLE

Lab Name: SEVERN_TRENT_LABORATORIES Contract: 98011_____
 ab Code: INCHVT Case No.: 98011_ SAS No: _____ SDG No.: 70741_
 ICP ID Number: ICP5 TJA 61E ICS Source: VENTURES_____

Concentration Units: ug/L

Analyte	True		Initial Found			Final Found		
	Sol. A	Sol. AB	Sol. A	Sol. AB	%R	Sol. A	Sol. AB	%R
Aluminum								
Antimony								
Arsenic								
Barium								
Beryllium								
Cadmium	0	934	2	971.1	104.0	1	966.4	103.5
Calcium								
Chromium	0	489	3	510.8	104.5	3	507.1	103.7
Cobalt								
Copper								
Iron								
Lead	0	48	-4	45.1	94.0	-5	47.3	98.5
Magnesium								
Manganese	0	492	9	510.3	103.7	11	509.4	103.5
Mercury								
Nickel	0	903	1	936.6	103.7	1	937.1	103.8
Potassium								
Selenium								
Silver								
Sodium								
Thallium								
Vanadium								
Zinc								

LABORATORY CONTROL SAMPLE

Lab Name: SEVERN_TRENT_LABORATORIES

Contract: 98011_____

Lab Code: INCHVT

Case No.: 98011_

SAS No.: _____

SDG No.: 70741_

Solid LCS Source: _____

Aqueous LCS Source: VENTURES_____

Analyte	Aqueous (ug/L)			Solid (mg/kg)				
	True	Found	%R	True	Found	C	Limits	%R
Aluminum								
Antimony								
Arsenic								
Barium								
Beryllium								
Cadmium	525.0	532.50	101.4					
Calcium								
Chromium	500.0	517.10	103.4					
Cobalt								
Copper								
Iron								
Lead	1015.0	1035.00	102.0					
Magnesium								
Manganese	500.0	510.50	102.1					
Mercury								
Nickel	500.0	509.00	101.8					
Potassium								
Selenium								
Silver								
Sodium								
Thallium								
Vanadium								
Zinc								
Cyanide								

STANDARD ADDITION RESULTS

Lab Name: SEVERN_TRENT_LABORATORIES Contract:98011_____

Lab Code: INCHVT Case No.: 98011_ SAS No.:_____ SDG No.:70741_

Concentration Units: ug/L

EPA Sample No.	An	0 ADD	1 ADD		2 ADD		3 ADD		Final Conc.	r	Q
		ABS	CON	ABS	CON	ABS	CON	ABS			

AL815L

Lab Name: SEVERN_TRENT_LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70741

Matrix (soil/water): WATER Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum							NR
Antimony							NR
Arsenic							NR
Barium							NR
Beryllium							NR
Cadmium	0.80	U	4.00	U			P
Calcium							NR
Chromium	2.20	U	11.00	U			P
Cobalt							NR
Copper							NR
Iron							NR
Lead	2.70	U	13.50	U			P
Magnesium							NR
Manganese	1.90	U	9.50	U			P
Mercury							NR
Nickel	3.60	U	18.00	U			P
Potassium							NR
Selenium							NR
Silver							NR
Sodium							NR
Thallium							NR
Vanadium							NR
Zinc							NR

Instrument Detection Limits (Quarterly)

Lab Name: SEVERN_TRENT_LABORATORIES Contract: 98011_____
 Lab Code: INCHVT Case No.: 98011_ SAS No.: _____ SDG No.: 70741_
 ICP ID Number: ICP5_TJA_61E Date: 10/16/98
 Flame AA ID Number : _____
 Furnace AA ID Number : _____

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200		NR
Antimony			60		NR
Arsenic			10		NR
Barium			200		NR
Beryllium			5		NR
Cadmium	226.50		5	0.8	P
Calcium			5000		NR
Chromium	267.72		10	2.2	P
Cobalt			50		NR
Copper			25		NR
Iron			100		NR
Lead	220.35		3	2.7	P
Magnesium			5000		NR
Manganese	294.92		15	1.9	P
Mercury			0.2		NR
Nickel	231.60		40	3.6	P
Potassium			5000		NR
Selenium			5		NR
Silver			10		NR
Sodium			5000		NR
Thallium			10		NR
Vanadium			50		NR
Zinc			20		NR

Comments:

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11A

ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: SEVERN_TRENT_LABORATORIES Contract: 98011_____

Lab Code: INCHVT Case No.: 98011_ SAS No.: _____ SDG No.: 70741_

ICP ID Number: ICP5 TJA 61E Date: 01/16/98

Analyte	Wave-length (nm)	Interelement Correction Factors for :				
		Al	Ca	Fe	Mg	CD_
Aluminum	237.31	0.0000000	0.0000000	-0.0007060	0.0000000	0.0000000
Antimony	206.84	0.0000000	0.0000000	0.0000310	0.0000000	0.0000000
Arsenic	189.04	0.0000030	0.0000000	-0.0000190	0.0000000	0.0000000
Barium	493.41	0.0000000	0.0000000	0.0000040	0.0000000	0.0000000
Beryllium	313.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.50	-0.0000020	0.0000000	0.0000720	0.0000000	0.0000000
Calcium	317.93	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	-0.0002050
Cobalt	228.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0002010
Copper	324.75	0.0000000	0.0000000	-0.0001110	0.0000000	0.0000000
Iron	271.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0009400	0.0000000	0.0000580	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	294.92	0.0000000	0.0000000	0.0006600	0.0000170	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.03	-0.0000610	0.0000000	0.0001100	0.0000020	0.0000000
Silver	328.07	0.0000000	0.0000000	-0.0000020	0.0000010	0.0000000
Sodium	330.23	0.0000000	0.0000000	-0.0001390	0.0000000	0.0000000
Thallium	190.86	-0.0000080	0.0000000	-0.0000300	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000230	0.0000000	0.0000000
Zinc	213.85	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

11B
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: SEVERN_TRENT_LABORATORIES Contract: 98011_____

Lab Code: INCHVT Case No.: 98011_ SAS No.: _____ SDG No.: 70741_

ICP ID Number: ICP5 TJA 61E Date: 01/16/98

Analyte	Wave-length (nm)	Interelement Correction Factors for :				
		CO_	CR_	MN_	NI_	TI_
Aluminum	237.31	0.0010260	-0.0001500	0.0004560	0.0000000	0.0000000
Antimony	206.84	0.0000000	0.0106760	0.0000000	-0.0010930	0.0009800
Arsenic	189.04	0.0000000	0.0000130	-0.0000260	0.0000000	0.0000000
Barium	493.41	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0006000
Cadmium	226.50	0.0000190	0.0000000	0.0000000	-0.0001420	0.0001100
Calcium	317.93	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000200	0.0000000	0.0000000
Cobalt	228.61	0.0000000	0.0000760	0.0000000	0.0001550	0.0021800
Copper	324.75	-0.0006200	0.0000000	0.0000000	0.0000000	0.0000000
Iron	271.44	0.0834400	0.0000000	-0.0010430	-0.0005400	0.0000000
Lead	220.35	-0.0032100	0.0000200	0.0000000	0.0001830	0.0002200
Magnesium	279.08	0.0000000	0.0000000	0.0083200	0.0000000	0.0000000
Manganese	294.92	0.0000000	-0.0001100	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0005300	0.0000000	-0.0000770	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.03	0.0003320	0.0000000	0.0003360	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000450	0.0001060	0.0000000	0.0004400
Sodium	330.23	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0031500	0.0003050	-0.0053100	0.0000000	0.0003200
Vanadium	292.40	0.0000000	-0.0014900	-0.0000760	0.0000000	0.0005480
Zinc	213.85	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: SEVERN_TRENT_LABORATORIES Contract: 98011_____

Lab Code: INCHVT Case No.: 98011_ SAS No.: _____ SDG No.: 70741_

ICP ID Number: ICP5 TJA 61E Date: 01/16/98

Analyte	Wave-length (nm)	Interelement Correction Factors for :				
		V_	ZN_	_____	_____	_____
Aluminum	237.31	-0.0041100	0.0000000			
Antimony	206.84	-0.0107300	0.0002410			
Arsenic	189.04	-0.0010590	0.0000000			
Barium	493.41	0.0000420	0.0000000			
Beryllium	313.04	0.0015700	0.0000000			
Cadmium	226.50	0.0000000	0.0000000			
Calcium	317.93	0.0000000	0.0000000			
Chromium	267.72	0.0000000	0.0000000			
Cobalt	228.61	0.0000000	0.0000000			
Copper	324.75	-0.0001320	0.0000000			
Iron	271.44	0.0076000	0.0000000			
Lead	220.35	0.0000000	0.0000000			
Magnesium	279.08	0.0000000	0.0000000			
Manganese	294.92	0.0048700	0.0000000			
Mercury						
Nickel	231.60	-0.0001520	0.0000000			
Potassium	766.49	0.0000000	0.0000000			
Selenium	196.03	0.0001120	0.0000000			
Silver	328.07	0.0004460	0.0000000			
Sodium	330.23	0.0000000	0.9394000			
Thallium	190.86	0.0018800	0.0000000			
Vanadium	292.40	0.0000000	0.0000000			
Zinc	213.85	-0.0054500	0.0000000			

Comments:

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ICP LINEAR RANGES (QUARTERLY)

Lab Name: SEVERN_TRENT_LABORATORIES Contract: 98011_____

Lab Code: INCHVT Case No.: 98011_ SAS No.: _____ SDG No.: 70741_

ICP ID Number: ICP5 TJA 61E Date: 10/16/98

Analyte	Integ. Time (sec.)	Concentration (ug/L)	M
Aluminum	10.00	1000000.0	P
Antimony	10.00	100000.0	P
Arsenic	10.00	5000.0	P
Barium	10.00	20000.0	P
Beryllium	10.00	10000.0	P
Cadmium	10.00	25000.0	P
Calcium	10.00	600000.0	P
Chromium	10.00	100000.0	P
Cobalt	10.00	100000.0	P
Copper	10.00	100000.0	P
Iron	10.00	1000000.0	P
Lead	10.00	100000.0	P
Magnesium	10.00	1000000.0	P
Manganese	10.00	100000.0	P
Mercury			NR
Nickel	10.00	100000.0	P
Potassium	10.00	100000.0	P
Selenium	10.00	5000.0	P
Silver	10.00	2000.0	P
Sodium	10.00	100000.0	P
Thallium	10.00	5000.0	P
Vanadium	10.00	100000.0	P
Zinc	10.00	10000.0	P

Comments:

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PREPARATION LOG

Lab Name: SEVERN_TRENT_LABORATORIES

Contract: 98011_____

Lab Code: INCHVT

Case No.: _98011_

SAS No.: _____

SDG No.: 70741_

Method: P_

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
AL210	10/02/98		100
AL212	10/02/98		100
AL813	10/02/98		100
AL815	10/02/98		100
LCSW	10/02/98		100
PBW	10/02/98		100

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ANALYSIS RUN LOG

Lab Name: SEVERN_TRENT_LABORATORIES

Contract: 98011_____

Lab Code: INCHVT Case No.: 98011_

SAS No.: _____ SDG No.: 70741_

Instrument ID Number: ICP5 TJA 61E_

Method: P_

Start Date: 10/20/98

End Date: 10/20/98

EPA Sample No.	D/F	Time	% R	Analytes																							
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N	C N
S0	1.00	1126		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
S	1.00	1130		X					X					X	X				X		X						
S	1.00	1135			X	X							X						X				X				
S	1.00	1139					X	X	X		X	X	X			X		X		X			X	X			
ICV	1.00	1145						X		X				X		X		X		X							
ICB	1.00	1149						X		X				X		X		X		X							
ICSA	1.00	1154						X		X				X		X		X		X							
ICSAB	1.00	1159						X		X				X		X		X		X							
CRI	1.00	1203						X		X				X		X		X		X							
CCV	1.00	1208						X		X				X		X		X		X							
CCB	1.00	1213						X		X				X		X		X		X							
PBW	1.00	1218						X		X				X		X		X		X							
LCSW	1.00	1222						X		X				X		X		X		X							
ZZZZZZ	1.00	1227																									
ZZZZZZ	5.00	1231																									
AL210	1.00	1236						X		X				X		X		X		X							
AL815	1.00	1241						X		X				X		X		X		X							
AL815L	5.00	1245						X		X				X		X		X		X							
AL212	1.00	1250						X		X				X		X		X		X							
AL813	1.00	1254						X		X				X		X		X		X							
CCV	1.00	1259						X		X				X		X		X		X							
CCB	1.00	1304						X		X				X		X		X		X							
ICSA	1.00	1309						X		X				X		X		X		X							
ICSAB	1.00	1313						X		X				X		X		X		X							
CRI	1.00	1318						X		X				X		X		X		X							
CCV	1.00	1323						X		X				X		X		X		X							
CCB	1.00	1327						X		X				X		X		X		X							

2. **Sample Delivery Group No. 70740**



SAMPLE DATA SUMMARY PACKAGE

CONTRACT: 98011
CASE NO: 98011
SDG NO: 70740



October 27, 1998

Severn Trent Laboratories

55 South Park Drive
Colchester VT 05446

Tel: (802) 655-1203
Fax: (802) 655-1248

Mr. Mike Duchesneau
Parsons Engineering Science
30 Dan Road
Canton, MA 02021

Re: Laboratory Project No. 98011
Project Name: ASH Quarterly 98
Case No.: 98011; SDG 70740

Dear Mr. Duchesneau:

Enclosed are the analytical results of samples received by Severn Trent Laboratories on September 22 and 24, 1998. Laboratory numbers have been assigned and designated as follows:

<u>Lab ID</u>	<u>Client Sample ID</u>	<u>Sample Date</u>	<u>Sample Matrix</u>
Received: 09/22/98 ETR No: 70740			
366794	AL810	09/19/98	Water
366795	AL200	09/19/98	Water
366796	AL200F	09/19/98	Filtrate
366797	AL201	09/19/98	Water
366798	AL201F	09/19/98	Filtrate
366799	AL202	09/19/98	Water
366800	AL202F	09/19/98	Filtrate
366801	AL203	09/19/98	Water
366802	AL203F	09/19/98	Filtrate
366803	AL204	09/19/98	Water
366804	AL204F	09/19/98	Filtrate
366805	AL205	09/20/98	Water
366806	AL206	09/20/98	Water
366807	AL206F	09/20/98	Filtrate
366808	AL209	09/20/98	Water
366809	AL209F	09/20/98	Filtrate

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Other Laboratory Locations:

- 149 Rangeway Road, North Billerica MA 01862
- 16203 Park Row, Suite 110, Houston TX 77084
- 200 Monroe Turnpike, Monroe CT 06468
- 120 Southcenter Court, Suite 300, Morrisville NC 27560
- 315 Fullerton Avenue, Newburgh NY 12550
- 11 East Olive Road, Pensacola FL 32514
- Westfield Executive Park, 53 Southampton Road, Westfield MA 01085
- 628 Route 10, Whoppany NJ 07981

a part of



<u>Lab ID</u>	<u>Client Sample ID</u>	<u>Sample Date</u>	<u>Sample Matrix</u>
Received: 09/24/98 ETR No: 70795			
367127	AL205	09/22/98	Water
367128	AL218	09/22/98	Water
367128MS	AL218MS	09/22/98	Water
367128MD	AL218MSD	09/22/98	Water
367129	AL218F	09/22/98	Filtrate
367130	AL217	09/22/98	Water
367131	AL217F	09/22/98	Filtrate
367132	AL818	09/22/98	Water
367133	AL816	09/14/98	Water
367134	AL216	09/22/98	Water
367135	AL215	09/22/98	Water
367136	AL214	09/22/98	Water
367137	AL817	09/22/98	Water

Please note that the nitrate / nitrite analysis of samples labeled AL205, AL218, AL218MS, AL218MSD and AL217 were performed thirteen days outside the method specified holding time.

The initial volatile organic analysis of sample labeled AL216 exhibited surrogate bromofluorobenzene recoveries below quality control limits. This sample was reanalyzed yielding similar results. Both sets of data have been provided in this case submittal. Please note that styrene was not recovered during the matrix spike /matrix spike duplicate analysis of sample AL218. The associated laboratory control sample exhibited acceptable recoveries of this analyte.

If there are any questions regarding this submittal, please contact Chris A. Ouellette at (802) 655-1203.

Sincerely,

Deborah A. Loring
Laboratory Director
DAL/mim
Enclosure

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FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL200

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70740

Matrix: (soil/water) WATER Lab Sample ID: 366795

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: L366795V

Level: (low/med) LOW Date Received: 09/22/98

% Moisture: not dec. _____ Date Analyzed: 09/28/98

GC Column: DB-624 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

75-71-8-----	Dichlorodifluoromethane	0.50	U
74-87-3-----	Chloromethane	0.50	U
75-01-4-----	Vinyl Chloride	0.50	U
74-83-9-----	Bromomethane	0.50	U
75-00-3-----	Chloroethane	0.50	U
75-69-4-----	Trichlorofluoromethane	0.50	U
75-35-4-----	1,1-Dichloroethene	0.50	U
67-64-1-----	Acetone	5.0	U
75-15-0-----	Carbon Disulfide	0.50	U
75-09-2-----	Methylene Chloride	0.50	U
156-60-5-----	trans-1,2-Dichloroethene	0.50	U
1634-04-4-----	Methyl-t-Butyl Ether	0.50	U
75-34-3-----	1,1-Dichloroethane	0.50	U
590-20-7-----	2,2-Dichloropropane	0.50	U
156-59-2-----	cis-1,2-Dichloroethene	0.50	U
78-93-3-----	2-Butanone	5.0	U
74-97-5-----	Bromochloromethane	0.50	U
67-66-3-----	Chloroform	0.50	U
71-55-6-----	1,1,1-Trichloroethane	0.50	U
56-23-5-----	Carbon Tetrachloride	0.50	U
563-58-6-----	1,1-Dichloropropene	0.50	U
71-43-2-----	Benzene	0.50	U
107-06-2-----	1,2-Dichloroethane	0.50	U
79-01-6-----	Trichloroethene	0.50	U
78-87-5-----	1,2-Dichloropropane	0.50	U
74-95-3-----	Dibromomethane	0.50	U
75-27-4-----	Bromodichloromethane	0.50	U
10061-01-5-----	cis-1,3-Dichloropropene	0.50	U
108-10-1-----	4-Methyl-2-Pentanone	2.5	U
108-88-3-----	Toluene	0.50	U
10061-02-6-----	trans-1,3-Dichloropropene	0.50	U
79-00-5-----	1,1,2-Trichloroethane	0.50	U
127-18-4-----	Tetrachloroethene	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL200

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70740

Matrix: (soil/water) WATER Lab Sample ID: 366795

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: L366795V

Level: (low/med) LOW Date Received: 09/22/98

% Moisture: not dec. _____ Date Analyzed: 09/28/98

GC Column: DB-624 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

142-28-9-----	1,3-Dichloropropane	0.50	U
591-78-6-----	2-Hexanone	2.5	U
124-48-1-----	Dibromochloromethane	0.50	U
106-93-4-----	1,2-Dibromoethane	0.50	U
108-90-7-----	Chlorobenzene	0.50	U
630-20-6-----	1,1,1,2-Tetrachloroethane	0.50	U
100-41-4-----	Ethylbenzene	0.50	U
1330-20-7-----	m- & p-Xylene	0.50	U
95-47-6-----	o-Xylene	0.50	U
100-42-5-----	Styrene	0.50	U
75-25-2-----	Bromoform	0.50	U
1330-20-7-----	Xylene (total)	0.50	U
98-82-8-----	Isopropylbenzene	0.50	U
108-86-1-----	Bromobenzene	0.50	U
79-34-5-----	1,1,2,2-Tetrachloroethane	0.50	U
96-18-4-----	1,2,3-Trichloropropane	0.50	U
95-49-8-----	2-Chlorotoluene	0.50	U
106-43-4-----	4-Chlorotoluene	0.50	U
103-65-1-----	n-Propylbenzene	0.50	U
108-67-8-----	1,3,5-Trimethylbenzene	0.50	U
98-06-6-----	tert-Butylbenzene	0.50	U
95-63-6-----	1,2,4-Trimethylbenzene	0.50	U
135-98-8-----	sec-Butylbenzene	0.50	U
541-73-1-----	1,3-Dichlorobenzene	0.50	U
99-87-6-----	p-Isopropyltoluene	0.50	U
106-46-7-----	1,4-Dichlorobenzene	0.50	U
95-50-1-----	1,2-Dichlorobenzene	0.50	U
104-51-8-----	n-Butylbenzene	0.50	U
96-12-8-----	1,2-Dibromo-3-Chloropropane	0.50	U
120-82-1-----	1,2,4-Trichlorobenzene	0.50	U
87-68-3-----	Hexachlorobutadiene	0.50	U
91-20-3-----	Naphthalene	0.50	U
87-61-6-----	1,2,3-Trichlorobenzene	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

AL201

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70740

Matrix: (soil/water) WATER Lab Sample ID: 366797

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: L366797V

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 09/28/98

GC Column: DB-624 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
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon Disulfide	0.50	U
75-09-2	Methylene Chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl-t-Butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
590-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-Pentanone	2.5	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

AL201

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70740

Matrix: (soil/water) WATER Lab Sample ID: 366797

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: L366797V

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 09/28/98

GC Column: DB-624 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

142-28-9-----	1,3-Dichloropropane	0.50	U
591-78-6-----	2-Hexanone	2.5	U
124-48-1-----	Dibromochloromethane	0.50	U
106-93-4-----	1,2-Dibromoethane	0.50	U
108-90-7-----	Chlorobenzene	0.50	U
630-20-6-----	1,1,1,2-Tetrachloroethane	0.50	U
100-41-4-----	Ethylbenzene	0.50	U
1330-20-7-----	m- & p-Xylene	0.50	U
95-47-6-----	o-Xylene	0.50	U
100-42-5-----	Styrene	0.50	U
75-25-2-----	Bromoform	0.50	U
1330-20-7-----	Xylene (total)	0.50	U
98-82-8-----	Isopropylbenzene	0.50	U
108-86-1-----	Bromobenzene	0.50	U
79-34-5-----	1,1,2,2-Tetrachloroethane	0.50	U
96-18-4-----	1,2,3-Trichloropropane	0.50	U
95-49-8-----	2-Chlorotoluene	0.50	U
106-43-4-----	4-Chlorotoluene	0.50	U
103-65-1-----	n-Propylbenzene	0.50	U
108-67-8-----	1,3,5-Trimethylbenzene	0.50	U
98-06-6-----	tert-Butylbenzene	0.50	U
95-63-6-----	1,2,4-Trimethylbenzene	0.50	U
135-98-8-----	sec-Butylbenzene	0.50	U
541-73-1-----	1,3-Dichlorobenzene	0.50	U
99-87-6-----	p-Isopropyltoluene	0.50	U
106-46-7-----	1,4-Dichlorobenzene	0.50	U
95-50-1-----	1,2-Dichlorobenzene	0.50	U
104-51-8-----	n-Butylbenzene	0.50	U
96-12-8-----	1,2-Dibromo-3-Chloropropane	0.50	U
120-82-1-----	1,2,4-Trichlorobenzene	0.50	U
87-68-3-----	Hexachlorobutadiene	0.50	U
91-20-3-----	Naphthalene	0.50	U
87-61-6-----	1,2,3-Trichlorobenzene	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL202

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70740

Matrix: (soil/water) WATER Lab Sample ID: 366799

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: L366799V

Level: (low/med) LOW Date Received: 09/22/98

% Moisture: not dec. _____ Date Analyzed: 09/28/98

GC Column: DB-624 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	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon Disulfide	0.50	U
75-09-2	Methylene Chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl-t-Butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
590-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-Pentanone	2.5	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL202

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70740

Matrix: (soil/water) WATER Lab Sample ID: 366799

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: L366799V

Level: (low/med) LOW Date Received: 09/22/98

% Moisture: not dec. _____ Date Analyzed: 09/28/98

GC Column: DB-624 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
142-28-9	1,3-Dichloropropane	0.50	U
591-78-6	2-Hexanone	2.5	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	m- & p-Xylene	0.50	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
1330-20-7	Xylene (total)	0.50	U
98-82-8	Isopropylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
99-87-6	p-Isopropyltoluene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
96-12-8	1,2-Dibromo-3-Chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL203

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70740

Matrix: (soil/water) WATER Lab Sample ID: 366801

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: L366801V

Level: (low/med) LOW Date Received: 09/22/98

% Moisture: not dec. _____ Date Analyzed: 09/28/98

GC Column: DB-624 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
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon Disulfide	0.50	U
75-09-2	Methylene Chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl-t-Butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
590-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-Pentanone	2.5	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL203

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70740

Matrix: (soil/water) WATER Lab Sample ID: 366801

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: L366801V

Level: (low/med) LOW Date Received: 09/22/98

% Moisture: not dec. _____ Date Analyzed: 09/28/98

GC Column: DB-624 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
142-28-9	1,3-Dichloropropane	0.50	U
591-78-6	2-Hexanone	2.5	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	m- & p-Xylene	0.50	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
1330-20-7	Xylene (total)	0.50	U
98-82-8	Isopropylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
99-87-6	p-Isopropyltoluene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
96-12-8	1,2-Dibromo-3-Chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL204

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70740

Matrix: (soil/water) WATER Lab Sample ID: 366803

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: L366803V

Level: (low/med) LOW Date Received: 09/22/98

% Moisture: not dec. _____ Date Analyzed: 09/28/98

GC Column: DB-624 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
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon Disulfide	0.50	U
75-09-2	Methylene Chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl-t-Butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
590-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-Pentanone	2.5	U
108-88-3	Toluene	0.21	J
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL204

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70740

Matrix: (soil/water) WATER Lab Sample ID: 366803

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: L366803V

Level: (low/med) LOW Date Received: 09/22/98

% Moisture: not dec. _____ Date Analyzed: 09/28/98

GC Column: DB-624 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
142-28-9	1,3-Dichloropropane	0.50 U
591-78-6	2-Hexanone	2.5 U
124-48-1	Dibromochloromethane	0.50 U
106-93-4	1,2-Dibromoethane	0.50 U
108-90-7	Chlorobenzene	0.50 U
630-20-6	1,1,1,2-Tetrachloroethane	0.50 U
100-41-4	Ethylbenzene	0.50 U
1330-20-7	m- & p-Xylene	0.50 U
95-47-6	o-Xylene	0.50 U
100-42-5	Styrene	0.50 U
75-25-2	Bromoform	0.50 U
1330-20-7	Xylene (total)	0.50 U
98-82-8	Isopropylbenzene	0.50 U
108-86-1	Bromobenzene	0.50 U
79-34-5	1,1,2,2-Tetrachloroethane	0.50 U
96-18-4	1,2,3-Trichloropropane	0.50 U
95-49-8	2-Chlorotoluene	0.50 U
106-43-4	4-Chlorotoluene	0.50 U
103-65-1	n-Propylbenzene	0.50 U
108-67-8	1,3,5-Trimethylbenzene	0.50 U
98-06-6	tert-Butylbenzene	0.50 U
95-63-6	1,2,4-Trimethylbenzene	0.50 U
135-98-8	sec-Butylbenzene	0.50 U
541-73-1	1,3-Dichlorobenzene	0.50 U
99-87-6	p-Isopropyltoluene	0.50 U
106-46-7	1,4-Dichlorobenzene	0.50 U
95-50-1	1,2-Dichlorobenzene	0.50 U
104-51-8	n-Butylbenzene	0.50 U
96-12-8	1,2-Dibromo-3-Chloropropane	0.50 U
120-82-1	1,2,4-Trichlorobenzene	0.50 U
87-68-3	Hexachlorobutadiene	0.50 U
91-20-3	Naphthalene	0.50 U
87-61-6	1,2,3-Trichlorobenzene	0.50 U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL205

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70740

Matrix: (soil/water) WATER Lab Sample ID: 366805

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: L366805V

Level: (low/med) LOW Date Received: 09/22/98

% Moisture: not dec. _____ Date Analyzed: 09/28/98

GC Column: DB-624 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
75-71-8	Dichlorodifluoromethane	0.50 U
74-87-3	Chloromethane	0.50 U
75-01-4	Vinyl Chloride	0.50 U
74-83-9	Bromomethane	0.50 U
75-00-3	Chloroethane	0.50 U
75-69-4	Trichlorofluoromethane	0.50 U
75-35-4	1,1-Dichloroethene	0.50 U
67-64-1	Acetone	5.0 U
75-15-0	Carbon Disulfide	0.50 U
75-09-2	Methylene Chloride	0.50 U
156-60-5	trans-1,2-Dichloroethene	0.50 U
1634-04-4	Methyl-t-Butyl Ether	0.50 U
75-34-3	1,1-Dichloroethane	0.50 U
590-20-7	2,2-Dichloropropane	0.50 U
156-59-2	cis-1,2-Dichloroethene	0.50 U
78-93-3	2-Butanone	5.0 U
74-97-5	Bromochloromethane	0.50 U
67-66-3	Chloroform	0.50 U
71-55-6	1,1,1-Trichloroethane	0.50 U
56-23-5	Carbon Tetrachloride	0.50 U
563-58-6	1,1-Dichloropropene	0.50 U
71-43-2	Benzene	0.50 U
107-06-2	1,2-Dichloroethane	0.50 U
79-01-6	Trichloroethene	0.50 U
78-87-5	1,2-Dichloropropane	0.50 U
74-95-3	Dibromomethane	0.50 U
75-27-4	Bromodichloromethane	0.50 U
10061-01-5	cis-1,3-Dichloropropene	0.50 U
108-10-1	4-Methyl-2-Pentanone	2.5 U
108-88-3	Toluene	0.50 U
10061-02-6	trans-1,3-Dichloropropene	0.50 U
79-00-5	1,1,2-Trichloroethane	0.50 U
127-18-4	Tetrachloroethene	0.50 U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL205

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70740

Matrix: (soil/water) WATER Lab Sample ID: 366805

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: L366805V

Level: (low/med) LOW Date Received: 09/22/98

% Moisture: not dec. _____ Date Analyzed: 09/28/98

GC Column: DB-624 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

142-28-9-----	1,3-Dichloropropane	0.50	U
591-78-6-----	2-Hexanone	2.5	U
124-48-1-----	Dibromochloromethane	0.50	U
106-93-4-----	1,2-Dibromoethane	0.50	U
108-90-7-----	Chlorobenzene	0.50	U
630-20-6-----	1,1,1,2-Tetrachloroethane	0.50	U
100-41-4-----	Ethylbenzene	0.50	U
1330-20-7-----	m- & p-Xylene	0.50	U
95-47-6-----	o-Xylene	0.50	U
100-42-5-----	Styrene	0.50	U
75-25-2-----	Bromoform	0.50	U
1330-20-7-----	Xylene (total)	0.50	U
98-82-8-----	Isopropylbenzene	0.50	U
108-86-1-----	Bromobenzene	0.50	U
79-34-5-----	1,1,2,2-Tetrachloroethane	0.50	U
96-18-4-----	1,2,3-Trichloropropane	0.50	U
95-49-8-----	2-Chlorotoluene	0.50	U
106-43-4-----	4-Chlorotoluene	0.50	U
103-65-1-----	n-Propylbenzene	0.50	U
108-67-8-----	1,3,5-Trimethylbenzene	0.50	U
98-06-6-----	tert-Butylbenzene	0.50	U
95-63-6-----	1,2,4-Trimethylbenzene	0.50	U
135-98-8-----	sec-Butylbenzene	0.50	U
541-73-1-----	1,3-Dichlorobenzene	0.50	U
99-87-6-----	p-Isopropyltoluene	0.50	U
106-46-7-----	1,4-Dichlorobenzene	0.50	U
95-50-1-----	1,2-Dichlorobenzene	0.50	U
104-51-8-----	n-Butylbenzene	0.50	U
96-12-8-----	1,2-Dibromo-3-Chloropropane	0.50	U
120-82-1-----	1,2,4-Trichlorobenzene	0.50	U
87-68-3-----	Hexachlorobutadiene	0.50	U
91-20-3-----	Naphthalene	0.50	U
87-61-6-----	1,2,3-Trichlorobenzene	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL206

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70740

Matrix: (soil/water) WATER Lab Sample ID: 366806

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: L366806V

Level: (low/med) LOW Date Received: 09/22/98

% Moisture: not dec. _____ Date Analyzed: 09/28/98

GC Column: DB-624 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
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon Disulfide	0.50	U
75-09-2	Methylene Chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl-t-Butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
590-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-Pentanone	2.5	U
108-88-3	Toluene	0.46	J
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL206

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70740

Matrix: (soil/water) WATER Lab Sample ID: 366806

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: L366806V

Level: (low/med) LOW Date Received: 09/22/98

% Moisture: not dec. _____ Date Analyzed: 09/28/98

GC Column: DB-624 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

142-28-9-----	1,3-Dichloropropane	0.50	U
591-78-6-----	2-Hexanone	2.5	U
124-48-1-----	Dibromochloromethane	0.50	U
106-93-4-----	1,2-Dibromoethane	0.50	U
108-90-7-----	Chlorobenzene	0.50	U
630-20-6-----	1,1,1,2-Tetrachloroethane	0.50	U
100-41-4-----	Ethylbenzene	0.50	U
1330-20-7-----	m- & p-Xylene	0.50	U
95-47-6-----	o-Xylene	0.50	U
100-42-5-----	Styrene	0.50	U
75-25-2-----	Bromoform	0.50	U
1330-20-7-----	Xylene (total)	0.50	U
98-82-8-----	Isopropylbenzene	0.50	U
108-86-1-----	Bromobenzene	0.50	U
79-34-5-----	1,1,2,2-Tetrachloroethane	0.50	U
96-18-4-----	1,2,3-Trichloropropane	0.50	U
95-49-8-----	2-Chlorotoluene	0.50	U
106-43-4-----	4-Chlorotoluene	0.50	U
103-65-1-----	n-Propylbenzene	0.50	U
108-67-8-----	1,3,5-Trimethylbenzene	0.50	U
98-06-6-----	tert-Butylbenzene	0.50	U
95-63-6-----	1,2,4-Trimethylbenzene	0.50	U
135-98-8-----	sec-Butylbenzene	0.50	U
541-73-1-----	1,3-Dichlorobenzene	0.50	U
99-87-6-----	p-Isopropyltoluene	0.50	U
106-46-7-----	1,4-Dichlorobenzene	0.50	U
95-50-1-----	1,2-Dichlorobenzene	0.50	U
104-51-8-----	n-Butylbenzene	0.50	U
96-12-8-----	1,2-Dibromo-3-Chloropropane	0.50	U
120-82-1-----	1,2,4-Trichlorobenzene	0.50	U
87-68-3-----	Hexachlorobutadiene	0.50	U
91-20-3-----	Naphthalene	0.50	U
87-61-6-----	1,2,3-Trichlorobenzene	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL209

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70740

Matrix: (soil/water) WATER Lab Sample ID: 366808

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: L366808V

Level: (low/med) LOW Date Received: 09/22/98

% Moisture: not dec. _____ Date Analyzed: 09/28/98

GC Column: DB-624 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

75-71-8-----	Dichlorodifluoromethane	0.50	U
74-87-3-----	Chloromethane	0.50	U
75-01-4-----	Vinyl Chloride	0.50	U
74-83-9-----	Bromomethane	0.50	U
75-00-3-----	Chloroethane	0.50	U
75-69-4-----	Trichlorofluoromethane	0.50	U
75-35-4-----	1,1-Dichloroethene	0.50	U
67-64-1-----	Acetone	5.0	U
75-15-0-----	Carbon Disulfide	0.50	U
75-09-2-----	Methylene Chloride	0.50	U
156-60-5-----	trans-1,2-Dichloroethene	0.50	U
1634-04-4-----	Methyl-t-Butyl Ether	0.50	U
75-34-3-----	1,1-Dichloroethane	0.50	U
590-20-7-----	2,2-Dichloropropane	0.50	U
156-59-2-----	cis-1,2-Dichloroethene	0.50	U
78-93-3-----	2-Butanone	5.0	U
74-97-5-----	Bromochloromethane	0.50	U
67-66-3-----	Chloroform	0.50	U
71-55-6-----	1,1,1-Trichloroethane	0.50	U
56-23-5-----	Carbon Tetrachloride	0.50	U
563-58-6-----	1,1-Dichloropropene	0.50	U
71-43-2-----	Benzene	0.50	U
107-06-2-----	1,2-Dichloroethane	0.50	U
79-01-6-----	Trichloroethene	0.50	U
78-87-5-----	1,2-Dichloropropane	0.50	U
74-95-3-----	Dibromomethane	0.50	U
75-27-4-----	Bromodichloromethane	0.50	U
10061-01-5-----	cis-1,3-Dichloropropene	0.50	U
108-10-1-----	4-Methyl-2-Pentanone	2.5	U
108-88-3-----	Toluene	0.50	U
10061-02-6-----	trans-1,3-Dichloropropene	0.50	U
79-00-5-----	1,1,2-Trichloroethane	0.50	U
127-18-4-----	Tetrachloroethene	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL209

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70740

Matrix: (soil/water) WATER Lab Sample ID: 366808

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: L366808V

Level: (low/med) LOW Date Received: 09/22/98

% Moisture: not dec. _____ Date Analyzed: 09/28/98

GC Column: DB-624 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
142-28-9	1,3-Dichloropropane	0.50	U
591-78-6	2-Hexanone	2.5	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	m- & p-Xylene	0.50	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
1330-20-7	Xylene (total)	0.50	U
98-82-8	Isopropylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
99-87-6	p-Isopropyltoluene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
96-12-8	1,2-Dibromo-3-Chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL214

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70740

Matrix: (soil/water) WATER Lab Sample ID: 367136

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: M367136V

Level: (low/med) LOW Date Received: 09/24/98

% Moisture: not dec. _____ Date Analyzed: 09/30/98

GC Column: DB-624 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	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon Disulfide	0.50	U
75-09-2	Methylene Chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl-t-Butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
590-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-Pentanone	2.5	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL214

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70740

Matrix: (soil/water) WATER Lab Sample ID: 367136

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: M367136V

Level: (low/med) LOW Date Received: 09/24/98

% Moisture: not dec. _____ Date Analyzed: 09/30/98

GC Column: DB-624 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
142-28-9	1,3-Dichloropropane	0.50	U
591-78-6	2-Hexanone	2.5	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	m- & p-Xylene	0.50	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
1330-20-7	Xylene (total)	0.50	U
98-82-8	Isopropylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
99-87-6	p-Isopropyltoluene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
96-12-8	1,2-Dibromo-3-Chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL215

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70740

Matrix: (soil/water) WATER Lab Sample ID: 367135

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: M367135V

Level: (low/med) LOW Date Received: 09/24/98

% Moisture: not dec. _____ Date Analyzed: 09/30/98

GC Column: DB-624 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
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon Disulfide	0.50	U
75-09-2	Methylene Chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl-t-Butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
590-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-Pentanone	2.5	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL215

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70740

Matrix: (soil/water) WATER Lab Sample ID: 367135

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: M367135V

Level: (low/med) LOW Date Received: 09/24/98

% Moisture: not dec. _____ Date Analyzed: 09/30/98

GC Column: DB-624 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
142-28-9	1,3-Dichloropropane	0.50	U
591-78-6	2-Hexanone	2.5	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	m- & p-Xylene	0.50	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
1330-20-7	Xylene (total)	0.50	U
98-82-8	Isopropylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
99-87-6	p-Isopropyltoluene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
96-12-8	1,2-Dibromo-3-Chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL216

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70740

Matrix: (soil/water) WATER Lab Sample ID: 367134

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: M367134V

Level: (low/med) LOW Date Received: 09/24/98

% Moisture: not dec. _____ Date Analyzed: 09/30/98

GC Column: DB-624 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
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon Disulfide	0.50	U
75-09-2	Methylene Chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl-t-Butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
590-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-Pentanone	2.5	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL216

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70740

Matrix: (soil/water) WATER Lab Sample ID: 367134

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: M367134V

Level: (low/med) LOW Date Received: 09/24/98

% Moisture: not dec. _____ Date Analyzed: 09/30/98

GC Column: DB-624 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
142-28-9	1,3-Dichloropropane	0.50	U
591-78-6	2-Hexanone	2.5	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	m- & p-Xylene	0.50	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
1330-20-7	Xylene (total)	0.50	U
98-82-8	Isopropylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
99-87-6	p-Isopropyltoluene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
96-12-8	1,2-Dibromo-3-Chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL216RE

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70740

Matrix: (soil/water) WATER Lab Sample ID: 367134R1

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: M367134I2V

Level: (low/med) LOW Date Received: 09/24/98

% Moisture: not dec. _____ Date Analyzed: 10/01/98

GC Column: DB-624 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
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon Disulfide	0.50	U
75-09-2	Methylene Chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl-t-Butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
590-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-Pentanone	2.5	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL216RE

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70740

Matrix: (soil/water) WATER Lab Sample ID: 367134R1

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: M367134I2V

Level: (low/med) LOW Date Received: 09/24/98

% Moisture: not dec. _____ Date Analyzed: 10/01/98

GC Column: DB-624 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

142-28-9-----	1,3-Dichloropropane	0.50	U
591-78-6-----	2-Hexanone	2.5	U
124-48-1-----	Dibromochloromethane	0.50	U
106-93-4-----	1,2-Dibromoethane	0.50	U
108-90-7-----	Chlorobenzene	0.50	U
630-20-6-----	1,1,1,2-Tetrachloroethane	0.50	U
100-41-4-----	Ethylbenzene	0.50	U
1330-20-7-----	m- & p-Xylene	0.50	U
95-47-6-----	o-Xylene	0.50	U
100-42-5-----	Styrene	0.50	U
75-25-2-----	Bromoform	0.50	U
1330-20-7-----	Xylene (total)	0.50	U
98-82-8-----	Isopropylbenzene	0.50	U
108-86-1-----	Bromobenzene	0.50	U
79-34-5-----	1,1,2,2-Tetrachloroethane	0.50	U
96-18-4-----	1,2,3-Trichloropropane	0.50	U
95-49-8-----	2-Chlorotoluene	0.50	U
106-43-4-----	4-Chlorotoluene	0.50	U
103-65-1-----	n-Propylbenzene	0.50	U
108-67-8-----	1,3,5-Trimethylbenzene	0.50	U
98-06-6-----	tert-Butylbenzene	0.50	U
95-63-6-----	1,2,4-Trimethylbenzene	0.50	U
135-98-8-----	sec-Butylbenzene	0.50	U
541-73-1-----	1,3-Dichlorobenzene	0.50	U
99-87-6-----	p-Isopropyltoluene	0.50	U
106-46-7-----	1,4-Dichlorobenzene	0.50	U
95-50-1-----	1,2-Dichlorobenzene	0.50	U
104-51-8-----	n-Butylbenzene	0.50	U
96-12-8-----	1,2-Dibromo-3-Chloropropane	0.50	U
120-82-1-----	1,2,4-Trichlorobenzene	0.50	U
87-68-3-----	Hexachlorobutadiene	0.50	U
91-20-3-----	Naphthalene	0.50	U
87-61-6-----	1,2,3-Trichlorobenzene	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL217

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70740

Matrix: (soil/water) WATER Lab Sample ID: 367130

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: M367130V

Level: (low/med) LOW Date Received: 09/24/98

% Moisture: not dec. _____ Date Analyzed: 09/30/98

GC Column: DB-624 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
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon Disulfide	0.50	U
75-09-2	Methylene Chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl-t-Butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
590-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	1.3	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-Pentanone	2.5	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL217

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70740

Matrix: (soil/water) WATER Lab Sample ID: 367130

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: M367130V

Level: (low/med) LOW Date Received: 09/24/98

% Moisture: not dec. _____ Date Analyzed: 09/30/98

GC Column: DB-624 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
142-28-9	1,3-Dichloropropane	0.50	U
591-78-6	2-Hexanone	2.5	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	m- & p-Xylene	0.50	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
1330-20-7	Xylene (total)	0.50	U
98-82-8	Isopropylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
99-87-6	p-Isopropyltoluene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
96-12-8	1,2-Dibromo-3-Chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL218

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70740

Matrix: (soil/water) WATER Lab Sample ID: 367128

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: M367128V

Level: (low/med) LOW Date Received: 09/24/98

% Moisture: not dec. _____ Date Analyzed: 09/30/98

GC Column: DB-624 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
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon Disulfide	0.50	U
75-09-2	Methylene Chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl-t-Butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
590-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-Pentanone	2.5	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL218

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70740

Matrix: (soil/water) WATER Lab Sample ID: 367128

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: M367128V

Level: (low/med) LOW Date Received: 09/24/98

% Moisture: not dec. _____ Date Analyzed: 09/30/98

GC Column: DB-624 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

142-28-9-----	1,3-Dichloropropane	0.50	U
591-78-6-----	2-Hexanone	2.5	U
124-48-1-----	Dibromochloromethane	0.50	U
106-93-4-----	1,2-Dibromoethane	0.50	U
108-90-7-----	Chlorobenzene	0.50	U
630-20-6-----	1,1,1,2-Tetrachloroethane	0.50	U
100-41-4-----	Ethylbenzene	0.50	U
1330-20-7-----	m- & p-Xylene	0.50	U
95-47-6-----	o-Xylene	0.50	U
100-42-5-----	Styrene	0.50	U
75-25-2-----	Bromoform	0.50	U
1330-20-7-----	Xylene (total)	0.50	U
98-82-8-----	Isopropylbenzene	0.50	U
108-86-1-----	Bromobenzene	0.50	U
79-34-5-----	1,1,2,2-Tetrachloroethane	0.50	U
96-18-4-----	1,2,3-Trichloropropane	0.50	U
95-49-8-----	2-Chlorotoluene	0.50	U
106-43-4-----	4-Chlorotoluene	0.50	U
103-65-1-----	n-Propylbenzene	0.50	U
108-67-8-----	1,3,5-Trimethylbenzene	0.50	U
98-06-6-----	tert-Butylbenzene	0.50	U
95-63-6-----	1,2,4-Trimethylbenzene	0.50	U
135-98-8-----	sec-Butylbenzene	0.50	U
541-73-1-----	1,3-Dichlorobenzene	0.50	U
99-87-6-----	p-Isopropyltoluene	0.50	U
106-46-7-----	1,4-Dichlorobenzene	0.50	U
95-50-1-----	1,2-Dichlorobenzene	0.50	U
104-51-8-----	n-Butylbenzene	0.50	U
96-12-8-----	1,2-Dibromo-3-Chloropropane	0.50	U
120-82-1-----	1,2,4-Trichlorobenzene	0.50	U
87-68-3-----	Hexachlorobutadiene	0.50	U
91-20-3-----	Naphthalene	0.50	U
87-61-6-----	1,2,3-Trichlorobenzene	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL810

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70740

Matrix: (soil/water) WATER Lab Sample ID: 366794

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: L366794V

Level: (low/med) LOW Date Received: 09/22/98

% Moisture: not dec. _____ Date Analyzed: 09/28/98

GC Column: DB-624 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
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon Disulfide	0.50	U
75-09-2	Methylene Chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl-t-Butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
590-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-Pentanone	2.5	U
108-88-3	Toluene	0.27	J
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL810

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70740

Matrix: (soil/water) WATER Lab Sample ID: 366794

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: L366794V

Level: (low/med) LOW Date Received: 09/22/98

% Moisture: not dec. _____ Date Analyzed: 09/28/98

GC Column: DB-624 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
142-28-9	1,3-Dichloropropane	0.50	U
591-78-6	2-Hexanone	2.5	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	m- & p-Xylene	0.50	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
1330-20-7	Xylene (total)	0.50	U
98-82-8	Isopropylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
99-87-6	p-Isopropyltoluene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
96-12-8	1,2-Dibromo-3-Chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL816

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70740

Matrix: (soil/water) WATER Lab Sample ID: 367133

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: M367133V

Level: (low/med) LOW Date Received: 09/24/98

% Moisture: not dec. Date Analyzed: 09/30/98

GC Column: DB-624 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
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon Disulfide	0.50	U
75-09-2	Methylene Chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl-t-Butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
590-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-Pentanone	2.5	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL816

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70740

Matrix: (soil/water) WATER Lab Sample ID: 367133

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: M367133V

Level: (low/med) LOW Date Received: 09/24/98

% Moisture: not dec. _____ Date Analyzed: 09/30/98

GC Column: DB-624 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

142-28-9-----	1,3-Dichloropropane	0.50	U
591-78-6-----	2-Hexanone	2.5	U
124-48-1-----	Dibromochloromethane	0.50	U
106-93-4-----	1,2-Dibromoethane	0.50	U
108-90-7-----	Chlorobenzene	0.50	U
630-20-6-----	1,1,1,2-Tetrachloroethane	0.50	U
100-41-4-----	Ethylbenzene	0.50	U
1330-20-7-----	m- & p-Xylene	0.50	U
95-47-6-----	o-Xylene	0.50	U
100-42-5-----	Styrene	0.50	U
75-25-2-----	Bromoform	0.50	U
1330-20-7-----	Xylene (total)	0.50	U
98-82-8-----	Isopropylbenzene	0.50	U
108-86-1-----	Bromobenzene	0.50	U
79-34-5-----	1,1,2,2-Tetrachloroethane	0.50	U
96-18-4-----	1,2,3-Trichloropropane	0.50	U
95-49-8-----	2-Chlorotoluene	0.50	U
106-43-4-----	4-Chlorotoluene	0.50	U
103-65-1-----	n-Propylbenzene	0.50	U
108-67-8-----	1,3,5-Trimethylbenzene	0.50	U
98-06-6-----	tert-Butylbenzene	0.50	U
95-63-6-----	1,2,4-Trimethylbenzene	0.50	U
135-98-8-----	sec-Butylbenzene	0.50	U
541-73-1-----	1,3-Dichlorobenzene	0.50	U
99-87-6-----	p-Isopropyltoluene	0.50	U
106-46-7-----	1,4-Dichlorobenzene	0.50	U
95-50-1-----	1,2-Dichlorobenzene	0.50	U
104-51-8-----	n-Butylbenzene	0.50	U
96-12-8-----	1,2-Dibromo-3-Chloropropane	0.50	U
120-82-1-----	1,2,4-Trichlorobenzene	0.50	U
87-68-3-----	Hexachlorobutadiene	0.50	U
91-20-3-----	Naphthalene	0.50	U
87-61-6-----	1,2,3-Trichlorobenzene	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL817

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70740

Matrix: (soil/water) WATER Lab Sample ID: 367137

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: M367137V

Level: (low/med) LOW Date Received: 09/24/98

% Moisture: not dec. _____ Date Analyzed: 09/30/98

GC Column: DB-624 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
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon Disulfide	0.50	U
75-09-2	Methylene Chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl-t-Butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
590-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-Pentanone	2.5	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL817

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70740

Matrix: (soil/water) WATER Lab Sample ID: 367137

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: M367137V

Level: (low/med) LOW Date Received: 09/24/98

% Moisture: not dec. _____ Date Analyzed: 09/30/98

GC Column: DB-624 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
142-28-9	1,3-Dichloropropane	0.50	U
591-78-6	2-Hexanone	2.5	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	m- & p-Xylene	0.50	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
1330-20-7	Xylene (total)	0.50	U
98-82-8	Isopropylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
99-87-6	p-Isopropyltoluene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
96-12-8	1,2-Dibromo-3-Chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL818

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70740

Matrix: (soil/water) WATER Lab Sample ID: 367132

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: M367132V

Level: (low/med) LOW Date Received: 09/24/98

% Moisture: not dec. _____ Date Analyzed: 09/30/98

GC Column: DB-624 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
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon Disulfide	0.50	U
75-09-2	Methylene Chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl-t-Butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
590-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-Pentanone	2.5	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL818

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70740

Matrix: (soil/water) WATER Lab Sample ID: 367132

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: M367132V

Level: (low/med) LOW Date Received: 09/24/98

% Moisture: not dec. Date Analyzed: 09/30/98

GC Column: DB-624 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

142-28-9	1,3-Dichloropropane	0.50	U
591-78-6	2-Hexanone	2.5	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	m- & p-Xylene	0.50	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
1330-20-7	Xylene (total)	0.50	U
98-82-8	Isopropylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
99-87-6	p-Isopropyltoluene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
96-12-8	1,2-Dibromo-3-Chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VBLKG2

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70740

Matrix: (soil/water) WATER Lab Sample ID: VBLKG2

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: LMXB003GV

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 09/28/98

GC Column: DB-624 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
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon Disulfide	0.50	U
75-09-2	Methylene Chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl-t-Butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
590-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-Pentanone	2.5	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VBLKG2

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70740

Matrix: (soil/water) WATER Lab Sample ID: VBLKG2

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: LMXB003GV

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 09/28/98

GC Column: DB-624 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

142-28-9-----	1,3-Dichloropropane	0.50	U
591-78-6-----	2-Hexanone	2.5	U
124-48-1-----	Dibromochloromethane	0.50	U
106-93-4-----	1,2-Dibromoethane	0.50	U
108-90-7-----	Chlorobenzene	0.50	U
630-20-6-----	1,1,1,2-Tetrachloroethane	0.50	U
100-41-4-----	Ethylbenzene	0.50	U
1330-20-7-----	m- & p-Xylene	0.50	U
95-47-6-----	o-Xylene	0.50	U
100-42-5-----	Styrene	0.50	U
75-25-2-----	Bromoform	0.50	U
1330-20-7-----	Xylene (total)	0.50	U
98-82-8-----	Isopropylbenzene	0.50	U
108-86-1-----	Bromobenzene	0.50	U
79-34-5-----	1,1,2,2-Tetrachloroethane	0.50	U
96-18-4-----	1,2,3-Trichloropropane	0.50	U
95-49-8-----	2-Chlorotoluene	0.50	U
106-43-4-----	4-Chlorotoluene	0.50	U
103-65-1-----	n-Propylbenzene	0.50	U
108-67-8-----	1,3,5-Trimethylbenzene	0.50	U
98-06-6-----	tert-Butylbenzene	0.50	U
95-63-6-----	1,2,4-Trimethylbenzene	0.50	U
135-98-8-----	sec-Butylbenzene	0.50	U
541-73-1-----	1,3-Dichlorobenzene	0.50	U
99-87-6-----	p-Isopropyltoluene	0.50	U
106-46-7-----	1,4-Dichlorobenzene	0.50	U
95-50-1-----	1,2-Dichlorobenzene	0.50	U
104-51-8-----	n-Butylbenzene	0.50	U
96-12-8-----	1,2-Dibromo-3-Chloropropane	0.50	U
120-82-1-----	1,2,4-Trichlorobenzene	0.50	U
87-68-3-----	Hexachlorobutadiene	0.50	U
91-20-3-----	Naphthalene	0.50	U
87-61-6-----	1,2,3-Trichlorobenzene	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VBLKH5

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70740

Matrix: (soil/water) WATER Lab Sample ID: VBLKH5

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: MPZB001AV

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 09/30/98

GC Column: DB-624 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
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon Disulfide	0.50	U
75-09-2	Methylene Chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl-t-Butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
590-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-Pentanone	2.5	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VBLKH5

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70740

Matrix: (soil/water) WATER Lab Sample ID: VBLKH5

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: MPZB001AV

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 09/30/98

GC Column: DB-624 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

142-28-9	1,3-Dichloropropane	0.50	U
591-78-6	2-Hexanone	2.5	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	m- & p-Xylene	0.50	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
1330-20-7	Xylene (total)	0.50	U
98-82-8	Isopropylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
99-87-6	p-Isopropyltoluene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
96-12-8	1,2-Dibromo-3-Chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VBLKI1

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70740

Matrix: (soil/water) WATER Lab Sample ID: VBLKI1

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: MPZB001BV

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 10/01/98

GC Column: DB-624 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
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon Disulfide	0.50	U
75-09-2	Methylene Chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl-t-Butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
590-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-Pentanone	2.5	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VBLKI1

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70740

Matrix: (soil/water) WATER Lab Sample ID: VBLKI1

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: MPZB001BV

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 10/01/98

GC Column: DB-624 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
142-28-9	1,3-Dichloropropane	0.50	U
591-78-6	2-Hexanone	2.5	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	m- & p-Xylene	0.50	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
1330-20-7	Xylene (total)	0.50	U
98-82-8	Isopropylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
103-65-1	n-Propylbenzene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
99-87-6	p-Isopropyltoluene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
96-12-8	1,2-Dibromo-3-Chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL218MS

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70740

Matrix: (soil/water) WATER Lab Sample ID: 367128MS

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: M367128MSV

Level: (low/med) LOW Date Received: 09/24/98

% Moisture: not dec. _____ Date Analyzed: 09/30/98

GC Column: DB-624 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
75-71-8	Dichlorodifluoromethane	0.83	
74-87-3	Chloromethane	0.92	
75-01-4	Vinyl Chloride	0.94	
74-83-9	Bromomethane	1.1	
75-00-3	Chloroethane	0.93	
75-69-4	Trichlorofluoromethane	0.90	
75-35-4	1,1-Dichloroethene	1.0	
67-64-1	Acetone	6.1	
75-15-0	Carbon Disulfide	0.79	
75-09-2	Methylene Chloride	1.0	
156-60-5	trans-1,2-Dichloroethene	0.96	
1634-04-4	Methyl-t-Butyl Ether	0.86	
75-34-3	1,1-Dichloroethane	0.94	
590-20-7	2,2-Dichloropropane	0.95	
156-59-2	cis-1,2-Dichloroethene	0.94	
78-93-3	2-Butanone	4.3	J
74-97-5	Bromochloromethane	0.92	
67-66-3	Chloroform	1.0	
71-55-6	1,1,1-Trichloroethane	0.96	
56-23-5	Carbon Tetrachloride	0.97	
563-58-6	1,1-Dichloropropene	0.94	
71-43-2	Benzene	0.98	
107-06-2	1,2-Dichloroethane	0.94	
79-01-6	Trichloroethene	0.96	
78-87-5	1,2-Dichloropropane	1.0	
74-95-3	Dibromomethane	0.94	
75-27-4	Bromodichloromethane	0.93	
10061-01-5	cis-1,3-Dichloropropene	0.92	
108-10-1	4-Methyl-2-Pentanone	4.1	
108-88-3	Toluene	0.97	
10061-02-6	trans-1,3-Dichloropropene	0.87	
79-00-5	1,1,2-Trichloroethane	0.91	
127-18-4	Tetrachloroethene	0.73	

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL218MS

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70740

Matrix: (soil/water) WATER Lab Sample ID: 367128MS

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: M367128MSV

Level: (low/med) LOW Date Received: 09/24/98

% Moisture: not dec. _____ Date Analyzed: 09/30/98

GC Column: DB-624 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
142-28-9	1,3-Dichloropropane	0.98	
591-78-6	2-Hexanone	2.7	
124-48-1	Dibromochloromethane	0.84	
106-93-4	1,2-Dibromoethane	0.87	
108-90-7	Chlorobenzene	1.0	
630-20-6	1,1,1,2-Tetrachloroethane	0.91	
100-41-4	Ethylbenzene	0.96	
1330-20-7	m- & p-Xylene	1.8	
95-47-6	o-Xylene	0.88	
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.70	
1330-20-7	Xylene (total)	2.7	
98-82-8	Isopropylbenzene	0.94	
108-86-1	Bromobenzene	0.85	
79-34-5	1,1,2,2-Tetrachloroethane	0.96	
96-18-4	1,2,3-Trichloropropane	0.80	
95-49-8	2-Chlorotoluene	0.90	
106-43-4	4-Chlorotoluene	0.86	
103-65-1	n-Propylbenzene	0.85	
108-67-8	1,3,5-Trimethylbenzene	0.83	
98-06-6	tert-Butylbenzene	0.94	
95-63-6	1,2,4-Trimethylbenzene	0.77	
135-98-8	sec-Butylbenzene	1.0	
541-73-1	1,3-Dichlorobenzene	0.83	
99-87-6	p-Isopropyltoluene	0.96	
106-46-7	1,4-Dichlorobenzene	0.83	
95-50-1	1,2-Dichlorobenzene	0.96	
104-51-8	n-Butylbenzene	0.90	
96-12-8	1,2-Dibromo-3-Chloropropane	0.77	
120-82-1	1,2,4-Trichlorobenzene	0.71	
87-68-3	Hexachlorobutadiene	0.79	
91-20-3	Naphthalene	0.75	
87-61-6	1,2,3-Trichlorobenzene	0.74	

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL218MSD

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70740

Matrix: (soil/water) WATER Lab Sample ID: 367128MD

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: M367128MDV

Level: (low/med) LOW Date Received: 09/24/98

% Moisture: not dec. _____ Date Analyzed: 09/30/98

GC Column: DB-624 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
75-71-8	Dichlorodifluoromethane	0.88	
74-87-3	Chloromethane	1.2	
75-01-4	Vinyl Chloride	0.97	
74-83-9	Bromomethane	1.2	
75-00-3	Chloroethane	1.1	
75-69-4	Trichlorofluoromethane	0.96	
75-35-4	1,1-Dichloroethene	1.0	
67-64-1	Acetone	5.8	
75-15-0	Carbon Disulfide	0.78	
75-09-2	Methylene Chloride	0.97	
156-60-5	trans-1,2-Dichloroethene	1.0	
1634-04-4	Methyl-t-Butyl Ether	0.93	
75-34-3	1,1-Dichloroethane	0.99	
590-20-7	2,2-Dichloropropane	1.1	
156-59-2	cis-1,2-Dichloroethene	0.90	
78-93-3	2-Butanone	4.4	J
74-97-5	Bromochloromethane	0.96	
67-66-3	Chloroform	1.0	
71-55-6	1,1,1-Trichloroethane	0.99	
56-23-5	Carbon Tetrachloride	0.95	
563-58-6	1,1-Dichloropropene	1.0	
71-43-2	Benzene	1.0	
107-06-2	1,2-Dichloroethane	1.0	
79-01-6	Trichloroethene	1.1	
78-87-5	1,2-Dichloropropane	1.0	
74-95-3	Dibromomethane	0.91	
75-27-4	Bromodichloromethane	0.96	
10061-01-5	cis-1,3-Dichloropropene	0.96	
108-10-1	4-Methyl-2-Pentanone	4.4	
108-88-3	Toluene	1.0	
10061-02-6	trans-1,3-Dichloropropene	0.87	
79-00-5	1,1,2-Trichloroethane	1.0	
127-18-4	Tetrachloroethene	0.78	

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL218MSD

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70740

Matrix: (soil/water) WATER Lab Sample ID: 367128MD

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: M367128MDV

Level: (low/med) LOW Date Received: 09/24/98

% Moisture: not dec. _____ Date Analyzed: 09/30/98

GC Column: DB-624 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
142-28-9	1,3-Dichloropropane	0.97	
591-78-6	2-Hexanone	3.4	
124-48-1	Dibromochloromethane	0.83	
106-93-4	1,2-Dibromoethane	0.96	
108-90-7	Chlorobenzene	1.0	
630-20-6	1,1,1,2-Tetrachloroethane	0.95	
100-41-4	Ethylbenzene	1.0	
1330-20-7	m- & p-Xylene	1.9	
95-47-6	o-Xylene	0.91	
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.74	
1330-20-7	Xylene (total)	2.8	
98-82-8	Isopropylbenzene	0.98	
108-86-1	Bromobenzene	0.92	
79-34-5	1,1,2,2-Tetrachloroethane	0.99	
96-18-4	1,2,3-Trichloropropane	0.85	
95-49-8	2-Chlorotoluene	0.90	
106-43-4	4-Chlorotoluene	0.96	
103-65-1	n-Propylbenzene	0.91	
108-67-8	1,3,5-Trimethylbenzene	0.90	
98-06-6	tert-Butylbenzene	0.99	
95-63-6	1,2,4-Trimethylbenzene	0.88	
135-98-8	sec-Butylbenzene	1.0	
541-73-1	1,3-Dichlorobenzene	0.86	
99-87-6	p-Isopropyltoluene	0.96	
106-46-7	1,4-Dichlorobenzene	0.94	
95-50-1	1,2-Dichlorobenzene	0.96	
104-51-8	n-Butylbenzene	0.92	
96-12-8	1,2-Dibromo-3-Chloropropane	0.91	
120-82-1	1,2,4-Trichlorobenzene	0.81	
87-68-3	Hexachlorobutadiene	0.75	
91-20-3	Naphthalene	0.69	
87-61-6	1,2,3-Trichlorobenzene	0.83	

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

LMX QCSLCS

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70740

Matrix: (soil/water) WATER Lab Sample ID: LMX QCSLCS

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: LMX001WV

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 08/04/98

GC Column: DB-624 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
75-71-8	Dichlorodifluoromethane	1.1	
74-87-3	Chloromethane	1.0	
75-01-4	Vinyl Chloride	1.1	
74-83-9	Bromomethane	1.1	
75-00-3	Chloroethane	1.1	
75-69-4	Trichlorofluoromethane	0.98	
60-29-7	Diethyl Ether	0.92	
75-35-4	1,1-Dichloroethene	1.0	
67-64-1	Acetone	5.7	
74-88-4	Methyl Iodide	0.97	
75-15-0	Carbon Disulfide	1.0	
107-05-1	Allyl Chloride	0.97	
75-09-2	Methylene Chloride	0.97	
107-13-1	Acrylonitrile	0.95	
156-60-5	trans-1,2-Dichloroethene	1.1	
1634-04-4	Methyl-t-Butyl Ether	1.0	
75-34-3	1,1-Dichloroethane	0.98	
590-20-7	2,2-Dichloropropane	0.98	
156-59-2	cis-1,2-Dichloroethene	1.0	
78-93-3	2-Butanone	4.5	J
107-12-0	Propionitrile	47	
96-33-3	Methyl Acrylate	0.98	
74-97-5	Bromochloromethane	1.0	
126-98-7	Methacrylonitrile	0.97	
109-99-9	Tetrahydrofuran	4.6	
67-66-3	Chloroform	1.0	
71-55-6	1,1,1-Trichloroethane	1.0	
109-69-3	1-Chlorobutane	0.99	
56-23-5	Carbon Tetrachloride	1.0	
563-58-6	1,1-Dichloropropene	1.0	
71-43-2	Benzene	0.98	
107-06-2	1,2-Dichloroethane	1.0	
79-01-6	Trichloroethene	1.0	

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

LMX QCSLCS

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70740

Matrix: (soil/water) WATER Lab Sample ID: LMX QCSLCS

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: LMX001WV

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 08/04/98

GC Column: DB-624 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
78-87-5	1,2-Dichloropropane	1.0	
74-95-3	Dibromomethane	1.0	
80-62-6	Methyl Methacrylate	1.1	
75-27-4	Bromodichloromethane	1.0	
107-14-2	Chloroacetonitrile	20	J
10061-01-5	cis-1,3-Dichloropropene	1.3	
513-88-2	1,1-Dichloropropanone	52	
108-10-1	4-Methyl-2-Pentanone	5.0	
79-46-9	2-Nitropropane	51	
108-88-3	Toluene	0.95	
10061-02-6	trans-1,3-Dichloropropene	0.95	
97-63-2	Ethyl Methacrylate	1.0	
79-00-5	1,1,2-Trichloroethane	0.96	
127-18-4	Tetrachloroethene	1.2	
142-28-9	1,3-Dichloropropane	0.97	
591-78-6	2-Hexanone	4.2	
124-48-1	Dibromochloromethane	1.0	
106-93-4	1,2-Dibromoethane	0.96	
108-90-7	Chlorobenzene	0.96	
630-20-6	1,1,1,2-Tetrachloroethane	1.0	
100-41-4	Ethylbenzene	1.0	
1330-20-7	m- & p-Xylene	2.1	
95-47-6	o-Xylene	0.99	
100-42-5	Styrene	0.95	
75-25-2	Bromoform	0.96	
1330-20-7	Xylene (total)	3.1	
98-82-8	Isopropylbenzene	1.0	
108-86-1	Bromobenzene	0.96	
79-34-5	1,1,2,2-Tetrachloroethane	1.0	
96-18-4	1,2,3-Trichloropropane	1.0	
110-57-6	trans-1,4-Dichloro-2-butene	0.97	
95-49-8	2-Chlorotoluene	0.99	
106-43-4	4-Chlorotoluene	0.99	

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

LMX QCSLCS

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70740

Matrix: (soil/water) WATER Lab Sample ID: LMX QCSLCS

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: LMX001WV

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 08/04/98

GC Column: DB-624 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
103-65-1	n-Propylbenzene	0.95	
108-67-8	1,3,5-Trimethylbenzene	1.0	
76-01-7	Pentachloroethane	0.74	
98-06-6	tert-Butylbenzene	0.99	
95-63-6	1,2,4-Trimethylbenzene	1.0	
135-98-8	sec-Butylbenzene	1.0	
541-73-1	1,3-Dichlorobenzene	1.0	
99-87-6	p-Isopropyltoluene	1.0	
106-46-7	1,4-Dichlorobenzene	1.1	
95-50-1	1,2-Dichlorobenzene	1.1	
104-51-8	n-Butylbenzene	1.0	
67-72-1	Hexachloroethane	1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	1.0	
98-95-3	Nitrobenzene	0.89	
120-82-1	1,2,4-Trichlorobenzene	1.1	
87-68-3	Hexachlorobutadiene	1.2	
91-20-3	Naphthalene	1.0	
87-61-6	1,2,3-Trichlorobenzene	1.1	

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

LMXGQCSLCS

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70740

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

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: LMX001GQ3V

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 09/28/98

GC Column: DB-624 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
75-71-8	Dichlorodifluoromethane	1.1	
74-87-3	Chloromethane	1.2	
75-01-4	Vinyl Chloride	0.99	
74-83-9	Bromomethane	1.1	
75-00-3	Chloroethane	1.0	
75-69-4	Trichlorofluoromethane	1.0	
75-35-4	1,1-Dichloroethene	0.93	
67-64-1	Acetone	6.1	
75-15-0	Carbon Disulfide	0.95	
75-09-2	Methylene Chloride	1.1	
156-60-5	trans-1,2-Dichloroethene	0.98	
1634-04-4	Methyl-t-Butyl Ether	1.1	
75-34-3	1,1-Dichloroethane	0.99	
590-20-7	2,2-Dichloropropane	1.1	
156-59-2	cis-1,2-Dichloroethene	1.0	
78-93-3	2-Butanone	5.2	
74-97-5	Bromochloromethane	1.1	
67-66-3	Chloroform	1.0	
71-55-6	1,1,1-Trichloroethane	0.93	
56-23-5	Carbon Tetrachloride	0.91	
563-58-6	1,1-Dichloropropene	0.95	
71-43-2	Benzene	0.99	
107-06-2	1,2-Dichloroethane	1.0	
79-01-6	Trichloroethene	0.94	
78-87-5	1,2-Dichloropropane	0.99	
74-95-3	Dibromomethane	1.1	
75-27-4	Bromodichloromethane	1.1	
10061-01-5	cis-1,3-Dichloropropene	1.0	
108-10-1	4-Methyl-2-Pentanone	4.7	
108-88-3	Toluene	0.95	
10061-02-6	trans-1,3-Dichloropropene	1.1	
79-00-5	1,1,2-Trichloroethane	1.1	
127-18-4	Tetrachloroethene	0.92	

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

LMXGQCSLCS

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70740

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

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: LMX001GQ3V

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 09/28/98

GC Column: DB-624 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
142-28-9	1,3-Dichloropropane	1.0	
591-78-6	2-Hexanone	3.6	
124-48-1	Dibromochloromethane	1.1	
106-93-4	1,2-Dibromoethane	1.1	
108-90-7	Chlorobenzene	1.0	
630-20-6	1,1,1,2-Tetrachloroethane	1.0	
100-41-4	Ethylbenzene	0.95	
1330-20-7	m- & p-Xylene	1.9	
95-47-6	o-Xylene	0.93	
100-42-5	Styrene	0.93	
75-25-2	Bromoform	1.0	
1330-20-7	Xylene (total)	2.8	
98-82-8	Isopropylbenzene	0.91	
108-86-1	Bromobenzene	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	1.1	
96-18-4	1,2,3-Trichloropropane	0.95	
95-49-8	2-Chlorotoluene	0.98	
106-43-4	4-Chlorotoluene	0.98	
103-65-1	n-Propylbenzene	0.90	
108-67-8	1,3,5-Trimethylbenzene	0.99	
98-06-6	tert-Butylbenzene	1.0	
95-63-6	1,2,4-Trimethylbenzene	1.0	
135-98-8	sec-Butylbenzene	1.1	
541-73-1	1,3-Dichlorobenzene	1.1	
99-87-6	p-Isopropyltoluene	1.1	
106-46-7	1,4-Dichlorobenzene	1.2	
95-50-1	1,2-Dichlorobenzene	1.2	
104-51-8	n-Butylbenzene	1.2	
96-12-8	1,2-Dibromo-3-Chloropropane	1.4	
120-82-1	1,2,4-Trichlorobenzene	1.4	
87-68-3	Hexachlorobutadiene	1.5	
91-20-3	Naphthalene	1.3	
87-61-6	1,2,3-Trichlorobenzene	1.4	

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

GEICO2 SAMPLE NO.

MPZQCSLCS

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70740

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

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: MPZ001QV

Level: (low/med) LOW Date Received: 09/17/98

% Moisture: not dec. _____ Date Analyzed: 09/29/98

GC Column: DB-624 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
75-71-8	Dichlorodifluoromethane	0.80	
74-87-3	Chloromethane	0.98	
75-01-4	Vinyl Chloride	0.91	
74-83-9	Bromomethane	1.1	
75-00-3	Chloroethane	1.0	
75-69-4	Trichlorofluoromethane	1.0	
75-35-4	1,1-Dichloroethene	1.0	
67-64-1	Acetone	5.2	
75-15-0	Carbon Disulfide	1.1	
75-09-2	Methylene Chloride	1.0	
156-60-5	trans-1,2-Dichloroethene	1.0	
1634-04-4	Methyl-t-Butyl Ether	1.0	
75-34-3	1,1-Dichloroethane	1.1	
590-20-7	2,2-Dichloropropane	1.0	
156-59-2	cis-1,2-Dichloroethene	0.91	
78-93-3	2-Butanone	4.4	J
74-97-5	Bromochloromethane	1.0	
67-66-3	Chloroform	1.1	
71-55-6	1,1,1-Trichloroethane	1.0	
56-23-5	Carbon Tetrachloride	1.0	
563-58-6	1,1-Dichloropropene	1.1	
71-43-2	Benzene	0.97	
107-06-2	1,2-Dichloroethane	1.0	
79-01-6	Trichloroethene	0.98	
78-87-5	1,2-Dichloropropane	0.99	
74-95-3	Dibromomethane	0.97	
75-27-4	Bromodichloromethane	0.98	
10061-01-5	cis-1,3-Dichloropropene	0.94	
108-10-1	4-Methyl-2-Pentanone	4.4	
108-88-3	Toluene	0.98	
10061-02-6	trans-1,3-Dichloropropene	1.0	
79-00-5	1,1,2-Trichloroethane	0.99	
127-18-4	Tetrachloroethene	1.1	

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

GEICO2 SAMPLE NO.

MPZQCSLCS

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70740

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

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: MPZ001QV

Level: (low/med) LOW Date Received: 09/17/98

% Moisture: not dec. _____ Date Analyzed: 09/29/98

GC Column: DB-624 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
142-28-9	1,3-Dichloropropane	0.95	
591-78-6	2-Hexanone	3.6	
124-48-1	Dibromochloromethane	0.97	
106-93-4	1,2-Dibromoethane	0.89	
108-90-7	Chlorobenzene	0.98	
630-20-6	1,1,1,2-Tetrachloroethane	0.98	
100-41-4	Ethylbenzene	1.0	
1330-20-7	m- & p-Xylene	1.9	
95-47-6	o-Xylene	0.97	
100-42-5	Styrene	0.92	
75-25-2	Bromoform	0.92	
1330-20-7	Xylene (total)	3.0	
98-82-8	Isopropylbenzene	0.97	
108-86-1	Bromobenzene	0.98	
79-34-5	1,1,2,2-Tetrachloroethane	0.95	
96-18-4	1,2,3-Trichloropropane	0.94	
95-49-8	2-Chlorotoluene	1.0	
106-43-4	4-Chlorotoluene	0.96	
103-65-1	n-Propylbenzene	0.93	
108-67-8	1,3,5-Trimethylbenzene	0.99	
98-06-6	tert-Butylbenzene	0.98	
95-63-6	1,2,4-Trimethylbenzene	1.0	
135-98-8	sec-Butylbenzene	1.0	
541-73-1	1,3-Dichlorobenzene	0.92	
99-87-6	p-Isopropyltoluene	1.0	
106-46-7	1,4-Dichlorobenzene	0.94	
95-50-1	1,2-Dichlorobenzene	1.0	
104-51-8	n-Butylbenzene	0.88	
96-12-8	1,2-Dibromo-3-Chloropropane	1.1	
120-82-1	1,2,4-Trichlorobenzene	1.1	
87-68-3	Hexachlorobutadiene	1.2	
91-20-3	Naphthalene	1.1	
87-61-6	1,2,3-Trichlorobenzene	1.0	

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MPZAQCSSLCS

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70740

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

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: MPZ001AQ2V

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 09/30/98

GC Column: DB-624 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

75-71-8	Dichlorodifluoromethane	0.87	
74-87-3	Chloromethane	1.1	
75-01-4	Vinyl Chloride	0.95	
74-83-9	Bromomethane	1.2	
75-00-3	Chloroethane	1.0	
75-69-4	Trichlorofluoromethane	0.96	
75-35-4	1,1-Dichloroethene	0.91	
67-64-1	Acetone	5.5	
75-15-0	Carbon Disulfide	1.0	
75-09-2	Methylene Chloride	0.97	
156-60-5	trans-1,2-Dichloroethene	0.91	
1634-04-4	Methyl-t-Butyl Ether	0.84	
75-34-3	1,1-Dichloroethane	0.98	
590-20-7	2,2-Dichloropropane	1.0	
156-59-2	cis-1,2-Dichloroethene	0.94	
78-93-3	2-Butanone	4.1	J
74-97-5	Bromochloromethane	0.96	
67-66-3	Chloroform	0.90	
71-55-6	1,1,1-Trichloroethane	0.94	
56-23-5	Carbon Tetrachloride	0.97	
563-58-6	1,1-Dichloropropene	0.99	
71-43-2	Benzene	0.94	
107-06-2	1,2-Dichloroethane	0.98	
79-01-6	Trichloroethene	0.95	
78-87-5	1,2-Dichloropropane	0.97	
74-95-3	Dibromomethane	0.98	
75-27-4	Bromodichloromethane	0.92	
10061-01-5	cis-1,3-Dichloropropene	1.0	
108-10-1	4-Methyl-2-Pentanone	4.1	
108-88-3	Toluene	0.93	
10061-02-6	trans-1,3-Dichloropropene	0.84	
79-00-5	1,1,2-Trichloroethane	0.90	
127-18-4	Tetrachloroethene	0.74	

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MPZAQCSLCS

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70740

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

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: MPZ001AQ2V

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 09/30/98

GC Column: DB-624 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
142-28-9	1,3-Dichloropropane	0.89	
591-78-6	2-Hexanone	4.1	
124-48-1	Dibromochloromethane	0.86	
106-93-4	1,2-Dibromoethane	0.83	
108-90-7	Chlorobenzene	0.93	
630-20-6	1,1,1,2-Tetrachloroethane	0.92	
100-41-4	Ethylbenzene	0.96	
1330-20-7	m- & p-Xylene	1.8	
95-47-6	o-Xylene	0.91	
100-42-5	Styrene	0.85	
75-25-2	Bromoform	0.73	
1330-20-7	Xylene (total)	2.8	
98-82-8	Isopropylbenzene	0.94	
108-86-1	Bromobenzene	0.88	
79-34-5	1,1,2,2-Tetrachloroethane	0.93	
96-18-4	1,2,3-Trichloropropane	0.76	
95-49-8	2-Chlorotoluene	0.98	
106-43-4	4-Chlorotoluene	0.95	
103-65-1	n-Propylbenzene	0.86	
108-67-8	1,3,5-Trimethylbenzene	0.94	
98-06-6	tert-Butylbenzene	0.89	
95-63-6	1,2,4-Trimethylbenzene	0.95	
135-98-8	sec-Butylbenzene	0.96	
541-73-1	1,3-Dichlorobenzene	0.90	
99-87-6	p-Isopropyltoluene	0.91	
106-46-7	1,4-Dichlorobenzene	0.91	
95-50-1	1,2-Dichlorobenzene	0.93	
104-51-8	n-Butylbenzene	0.93	
96-12-8	1,2-Dibromo-3-Chloropropane	0.91	
120-82-1	1,2,4-Trichlorobenzene	0.78	
87-68-3	Hexachlorobutadiene	0.87	
91-20-3	Naphthalene	0.88	
87-61-6	1,2,3-Trichlorobenzene	0.80	

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MPZBLCS

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70740

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

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: MPZ001BV

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 10/01/98

GC Column: DB-624 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
75-71-8	Dichlorodifluoromethane	0.89	
74-87-3	Chloromethane	1.1	
75-01-4	Vinyl Chloride	0.95	
74-83-9	Bromomethane	1.0	
75-00-3	Chloroethane	0.99	
75-69-4	Trichlorofluoromethane	1.0	
75-35-4	1,1-Dichloroethene	1.0	
67-64-1	Acetone	5.1	
75-15-0	Carbon Disulfide	1.0	
75-09-2	Methylene Chloride	1.1	
156-60-5	trans-1,2-Dichloroethene	1.0	
1634-04-4	Methyl-t-Butyl Ether	0.84	
75-34-3	1,1-Dichloroethane	0.94	
590-20-7	2,2-Dichloropropane	1.0	
156-59-2	cis-1,2-Dichloroethene	0.87	
78-93-3	2-Butanone	4.0	J
74-97-5	Bromochloromethane	0.92	
67-66-3	Chloroform	0.92	
71-55-6	1,1,1-Trichloroethane	0.94	
56-23-5	Carbon Tetrachloride	0.99	
563-58-6	1,1-Dichloropropene	1.0	
71-43-2	Benzene	0.93	
107-06-2	1,2-Dichloroethane	1.0	
79-01-6	Trichloroethene	0.93	
78-87-5	1,2-Dichloropropane	1.0	
74-95-3	Dibromomethane	0.98	
75-27-4	Bromodichloromethane	0.96	
10061-01-5	cis-1,3-Dichloropropene	0.98	
108-10-1	4-Methyl-2-Pentanone	3.9	
108-88-3	Toluene	1.0	
10061-02-6	trans-1,3-Dichloropropene	0.93	
79-00-5	1,1,2-Trichloroethane	0.92	
127-18-4	Tetrachloroethene	0.77	

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MPZBLCS

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70740

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

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: MPZ001BV

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 10/01/98

GC Column: DB-624 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
142-28-9	1,3-Dichloropropane	0.92	
591-78-6	2-Hexanone	3.2	
124-48-1	Dibromochloromethane	0.92	
106-93-4	1,2-Dibromoethane	0.96	
108-90-7	Chlorobenzene	1.0	
630-20-6	1,1,1,2-Tetrachloroethane	1.0	
100-41-4	Ethylbenzene	1.1	
1330-20-7	m- & p-Xylene	2.1	
95-47-6	o-Xylene	1.0	
100-42-5	Styrene	0.93	
75-25-2	Bromoform	0.75	
1330-20-7	Xylene (total)	3.2	
98-82-8	Isopropylbenzene	1.0	
108-86-1	Bromobenzene	0.91	
79-34-5	1,1,2,2-Tetrachloroethane	0.92	
96-18-4	1,2,3-Trichloropropane	0.85	
95-49-8	2-Chlorotoluene	0.99	
106-43-4	4-Chlorotoluene	0.96	
103-65-1	n-Propylbenzene	1.0	
108-67-8	1,3,5-Trimethylbenzene	1.1	
98-06-6	tert-Butylbenzene	0.96	
95-63-6	1,2,4-Trimethylbenzene	1.1	
135-98-8	sec-Butylbenzene	1.1	
541-73-1	1,3-Dichlorobenzene	0.95	
99-87-6	p-Isopropyltoluene	1.0	
106-46-7	1,4-Dichlorobenzene	0.96	
95-50-1	1,2-Dichlorobenzene	0.97	
104-51-8	n-Butylbenzene	0.96	
96-12-8	1,2-Dibromo-3-Chloropropane	0.90	
120-82-1	1,2,4-Trichlorobenzene	0.85	
87-68-3	Hexachlorobutadiene	0.81	
91-20-3	Naphthalene	0.77	
87-61-6	1,2,3-Trichlorobenzene	0.83	

FORM 2
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70740

	CLIENT SAMPLE NO.	SMC1 (DCE) #	SMC2 (BFB) #	SMC3 (DCB) #	OTHER (TOL) #	TOT OUT
01	LMX QCSLCS	100	100	100	105	0
02	LMXGQCSLCS	100	95	110	90	0
03	VBLKG2	105	95	110	100	0
04	AL810	100	100	105	100	0
05	AL200	100	100	110	105	0
06	AL201	100	95	110	100	0
07	AL202	95	95	105	90	0
08	AL203	100	100	110	100	0
09	AL204	105	100	110	105	0
10	AL205	100	95	110	90	0
11	AL206	100	95	110	100	0
12	AL209	100	100	105	100	0
13	MPZQCSLCS	95	85	95	90	0
14	VBLKH3	105	90	85	100	0
15	VBLKH5	95	95	90	100	0
16	MPZAQCSLCS	100	90	85	95	0
17	AL218	105	80	85	100	0
18	AL218MS	100	90	90	100	0
19	AL218MSD	100	90	90	100	0
20	AL217	105	90	80	100	0
21	AL818	95	80	95	90	0
22	AL816	100	80	85	100	0
23	AL216	95	75*	85	100	1
24	AL215	90	80	80	95	0
25	AL214	95	90	90	95	0
26	AL817	90	85	80	95	0
27	VBLKI1	100	90	85	105	0
28	MPZBLCS	85	85	90	95	0
29	AL216RE	90	70*	80	90	1
30						

QC LIMITS

SMC1 (DCE) = 1,2-Dichloroethane-d4 (78-133)
 SMC2 (BFB) = Bromofluorobenzene (80-114)
 SMC3 (DCB) = 1,2-Dichlorobenzene-d4 (79-112)
 OTHER (TOL) = Toluene-d8 (79-111)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

FORM 3
WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70740

Matrix Spike - ENGSC2 Sample No.: AL218

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC. LIMITS REC.
Dichlorodifluoromethane	1.0	0.0	0.83	83	70-130
Chloromethane	1.0	0.0	0.92	92	70-130
Vinyl Chloride	1.0	0.0	0.94	94	70-130
Bromomethane	1.0	0.0	1.1	110	70-130
Chloroethane	1.0	0.0	0.93	93	70-130
Trichlorofluoromethane	1.0	0.0	0.90	90	70-130
1,1-Dichloroethene	1.0	0.0	1.0	100	70-130
Acetone	5.0	0.0	6.1	122	70-130
Carbon Disulfide	1.0	0.0	0.79	79	70-130
Methylene Chloride	1.0	0.0	1.0	100	70-130
trans-1,2-Dichloroethen	1.0	0.0	0.96	96	70-130
Methyl-t-Butyl Ether	1.0	0.0	0.86	86	70-130
1,1-Dichloroethane	1.0	0.0	0.94	94	70-130
2,2-Dichloropropane	1.0	0.0	0.95	95	70-130
cis-1,2-Dichloroethene	1.0	0.0	0.94	94	70-130
2-Butanone	5.0	0.0	4.3	86	70-130
Bromochloromethane	1.0	0.0	0.92	92	70-130
Chloroform	1.0	0.0	1.0	100	70-130
1,1,1-Trichloroethane	1.0	0.0	0.96	96	70-130
Carbon Tetrachloride	1.0	0.0	0.97	97	70-130
1,1-Dichloropropene	1.0	0.0	0.94	94	70-130
Benzene	1.0	0.0	0.98	98	70-130
1,2-Dichloroethane	1.0	0.0	0.94	94	70-130
Trichloroethene	1.0	0.0	0.96	96	70-130
1,2-Dichloropropane	1.0	0.0	1.0	100	70-130
Dibromomethane	1.0	0.0	0.94	94	70-130
Bromodichloromethane	1.0	0.0	0.93	93	70-130
cis-1,3-Dichloropropene	1.0	0.0	0.92	92	70-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

FORM 3
WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70740

Matrix Spike - ENGSC2 Sample No.: AL218

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC. LIMITS REC.
4-Methyl-2-Pentanone	5.0	0.0	4.1	82	70-130
Toluene	1.0	0.0	0.97	97	70-130
trans-1,3-Dichloroprope	1.0	0.0	0.87	87	70-130
1,1,2-Trichloroethane	1.0	0.0	0.91	91	70-130
Tetrachloroethene	1.0	0.0	0.73	73	70-130
1,3-Dichloropropane	1.0	0.0	0.98	98	70-130
2-Hexanone	5.0	0.0	2.7	54*	70-130
Dibromochloromethane	1.0	0.0	0.84	84	70-130
1,2-Dibromoethane	1.0	0.0	0.87	87	70-130
Chlorobenzene	1.0	0.0	1.0	100	70-130
1,1,1,2-Tetrachloroetha	1.0	0.0	0.91	91	70-130
Ethylbenzene	1.0	0.0	0.96	96	70-130
m- & p-Xylene	2.0	0.0	1.8	90	70-130
o-Xylene	1.0	0.0	0.88	88	70-130
Styrene	1.0	0.0	0.0	0*	70-130
Bromoform	1.0	0.0	0.70	70	70-130
Xylene (total)	3.0	0.0	2.7	90	70-130
Isopropylbenzene	1.0	0.0	0.94	94	70-130
Bromobenzene	1.0	0.0	0.85	85	70-130
1,1,2,2-Tetrachloroetha	1.0	0.0	0.96	96	70-130
1,2,3-Trichloropropane	1.0	0.0	0.80	80	70-130
2-Chlorotoluene	1.0	0.0	0.90	90	70-130
4-Chlorotoluene	1.0	0.0	0.86	86	70-130
n-Propylbenzene	1.0	0.0	0.85	85	70-130
1,3,5-Trimethylbenzene	1.0	0.0	0.83	83	70-130
tert-Butylbenzene	1.0	0.0	0.94	94	70-130
1,2,4-Trimethylbenzene	1.0	0.0	0.77	77	70-130
sec-Butylbenzene	1.0	0.0	1.0	100	70-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

FORM 3
 WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70740

Matrix Spike - ENGSC2 Sample No.: AL218

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC. LIMITS REC.
1,3-Dichlorobenzene	1.0	0.0	0.83	83	70-130
p-Isopropyltoluene	1.0	0.0	0.96	96	70-130
1,4-Dichlorobenzene	1.0	0.0	0.83	83	70-130
1,2-Dichlorobenzene	1.0	0.0	0.96	96	70-130
n-Butylbenzene	1.0	0.0	0.90	90	70-130
1,2-Dibromo-3-Chloropro	1.0	0.0	0.77	77	70-130
1,2,4-Trichlorobenzene	1.0	0.0	0.71	71	70-130
Hexachlorobutadiene	1.0	0.0	0.79	79	70-130
Naphthalene	1.0	0.0	0.75	75	70-130
1,2,3-Trichlorobenzene	1.0	0.0	0.74	74	70-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

FORM 3
WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70740

Matrix Spike - ENGSC2 Sample No.: AL218

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS	
					RPD	REC.
Dichlorodifluoromethane	1.0	0.88	88	6	40	70-130
Chloromethane	1.0	1.2	120	26	40	70-130
Vinyl Chloride	1.0	0.97	97	3	40	70-130
Bromomethane	1.0	1.2	120	9	40	70-130
Chloroethane	1.0	1.1	110	17	40	70-130
Trichlorofluoromethane	1.0	0.96	96	6	40	70-130
1,1-Dichloroethene	1.0	1.0	100	0	40	70-130
Acetone	5.0	5.8	116	5	40	70-130
Carbon Disulfide	1.0	0.78	78	1	40	70-130
Methylene Chloride	1.0	0.97	97	3	40	70-130
trans-1,2-Dichloroethen	1.0	1.0	100	4	40	70-130
Methyl-t-Butyl Ether	1.0	0.93	93	8	40	70-130
1,1-Dichloroethane	1.0	0.99	99	5	40	70-130
2,2-Dichloropropane	1.0	1.1	110	15	40	70-130
cis-1,2-Dichloroethene	1.0	0.90	90	4	40	70-130
2-Butanone	5.0	4.4	88	2	40	70-130
Bromochloromethane	1.0	0.96	96	4	40	70-130
Chloroform	1.0	1.0	100	0	40	70-130
1,1,1-Trichloroethane	1.0	0.99	99	3	40	70-130
Carbon Tetrachloride	1.0	0.95	95	2	40	70-130
1,1-Dichloropropene	1.0	1.0	100	6	40	70-130
Benzene	1.0	1.0	100	2	40	70-130
1,2-Dichloroethane	1.0	1.0	100	6	40	70-130
Trichloroethene	1.0	1.1	110	14	40	70-130
1,2-Dichloropropane	1.0	1.0	100	0	40	70-130
Dibromomethane	1.0	0.91	91	3	40	70-130
Bromodichloromethane	1.0	0.96	96	3	40	70-130
cis-1,3-Dichloropropene	1.0	0.96	96	4	40	70-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

FORM 3
 WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70740

Matrix Spike - ENGSC2 Sample No.: AL218

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC. LIMITS REC.
1,3-Dichlorobenzene	1.0	0.0	0.83	83	70-130
p-Isopropyltoluene	1.0	0.0	0.96	96	70-130
1,4-Dichlorobenzene	1.0	0.0	0.83	83	70-130
1,2-Dichlorobenzene	1.0	0.0	0.96	96	70-130
n-Butylbenzene	1.0	0.0	0.90	90	70-130
1,2-Dibromo-3-Chloropro	1.0	0.0	0.77	77	70-130
1,2,4-Trichlorobenzene	1.0	0.0	0.71	71	70-130
Hexachlorobutadiene	1.0	0.0	0.79	79	70-130
Naphthalene	1.0	0.0	0.75	75	70-130
1,2,3-Trichlorobenzene	1.0	0.0	0.74	74	70-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

FORM 3
WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70740

Matrix Spike - ENGSC2 Sample No.: AL218

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS	
					RPD	REC.
Dichlorodifluoromethane	1.0	0.88	88	6	40	70-130
Chloromethane	1.0	1.2	120	26	40	70-130
Vinyl Chloride	1.0	0.97	97	3	40	70-130
Bromomethane	1.0	1.2	120	9	40	70-130
Chloroethane	1.0	1.1	110	17	40	70-130
Trichlorofluoromethane	1.0	0.96	96	6	40	70-130
1,1-Dichloroethene	1.0	1.0	100	0	40	70-130
Acetone	5.0	5.8	116	5	40	70-130
Carbon Disulfide	1.0	0.78	78	1	40	70-130
Methylene Chloride	1.0	0.97	97	3	40	70-130
trans-1,2-Dichloroethen	1.0	1.0	100	4	40	70-130
Methyl-t-Butyl Ether	1.0	0.93	93	8	40	70-130
1,1-Dichloroethane	1.0	0.99	99	5	40	70-130
2,2-Dichloropropane	1.0	1.1	110	15	40	70-130
cis-1,2-Dichloroethene	1.0	0.90	90	4	40	70-130
2-Butanone	5.0	4.4	88	2	40	70-130
Bromochloromethane	1.0	0.96	96	4	40	70-130
Chloroform	1.0	1.0	100	0	40	70-130
1,1,1-Trichloroethane	1.0	0.99	99	3	40	70-130
Carbon Tetrachloride	1.0	0.95	95	2	40	70-130
1,1-Dichloropropene	1.0	1.0	100	6	40	70-130
Benzene	1.0	1.0	100	2	40	70-130
1,2-Dichloroethane	1.0	1.0	100	6	40	70-130
Trichloroethene	1.0	1.1	110	14	40	70-130
1,2-Dichloropropane	1.0	1.0	100	0	40	70-130
Dibromomethane	1.0	0.91	91	3	40	70-130
Bromodichloromethane	1.0	0.96	96	3	40	70-130
cis-1,3-Dichloropropene	1.0	0.96	96	4	40	70-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

FORM 3
WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70740

Matrix Spike - ENGSC2 Sample No.: AL218

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS	
					RPD	REC.
4-Methyl-2-Pentanone	5.0	4.4	88	7	40	70-130
Toluene	1.0	1.0	100	3	40	70-130
trans-1,3-Dichloroprope	1.0	0.87	87	0	40	70-130
1,1,2-Trichloroethane	1.0	1.0	100	9	40	70-130
Tetrachloroethene	1.0	0.78	78	7	40	70-130
1,3-Dichloropropane	1.0	0.97	97	1	40	70-130
2-Hexanone	5.0	3.4	68*	23	40	70-130
Dibromochloromethane	1.0	0.83	83	1	40	70-130
1,2-Dibromoethane	1.0	0.96	96	10	40	70-130
Chlorobenzene	1.0	1.0	100	0	40	70-130
1,1,1,2-Tetrachloroetha	1.0	0.95	95	4	40	70-130
Ethylbenzene	1.0	1.0	100	4	40	70-130
m- & p-Xylene	2.0	1.9	95	5	40	70-130
o-Xylene	1.0	0.91	91	3	40	70-130
Styrene	1.0	0.0	0*		40	70-130
Bromoform	1.0	0.74	74	6	40	70-130
Xylene (total)	3.0	2.8	93	3	40	70-130
Isopropylbenzene	1.0	0.98	98	4	40	70-130
Bromobenzene	1.0	0.92	92	8	40	70-130
1,1,2,2-Tetrachloroetha	1.0	0.99	99	3	40	70-130
1,2,3-Trichloropropane	1.0	0.85	85	6	40	70-130
2-Chlorotoluene	1.0	0.90	90	0	40	70-130
4-Chlorotoluene	1.0	0.96	96	11	40	70-130
n-Propylbenzene	1.0	0.91	91	7	40	70-130
1,3,5-Trimethylbenzene	1.0	0.90	90	8	40	70-130
tert-Butylbenzene	1.0	0.99	99	5	40	70-130
1,2,4-Trimethylbenzene	1.0	0.88	88	13	40	70-130
sec-Butylbenzene	1.0	1.0	100	0	40	70-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

FORM 3
WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70740

Matrix Spike - ENGSC2 Sample No.: AL218

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS	
					RPD	REC.
1,3-Dichlorobenzene	1.0	0.86	86	4	40	70-130
p-Isopropyltoluene	1.0	0.96	96	0	40	70-130
1,4-Dichlorobenzene	1.0	0.94	94	12	40	70-130
1,2-Dichlorobenzene	1.0	0.96	96	0	40	70-130
n-Butylbenzene	1.0	0.92	92	2	40	70-130
1,2-Dibromo-3-Chloropro	1.0	0.91	91	17	40	70-130
1,2,4-Trichlorobenzene	1.0	0.81	81	13	40	70-130
Hexachlorobutadiene	1.0	0.75	75	5	40	70-130
Naphthalene	1.0	0.69	69*	8	40	70-130
1,2,3-Trichlorobenzene	1.0	0.83	83	11	40	70-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 66 outside limits

Spike Recovery: 5 out of 132 outside limits

COMMENTS:

FORM 3
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70740

Matrix Spike - Sample No.: LMX QCSLCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
Dichlorodifluoromethane	1.0		1.1	110	70-130
Chloromethane	1.0		1.0	100	70-130
Vinyl Chloride	1.0		1.1	110	70-130
Bromomethane	1.0		1.1	110	70-130
Chloroethane	1.0		1.1	110	70-130
Trichlorofluoromethane	1.0		0.98	98	70-130
Diethyl Ether	1.0		0.92	92	70-130
1,1-Dichloroethene	1.0		1.0	100	70-130
Acetone	5.0		5.7	114	70-130
Methyl Iodide	1.0		0.97	97	70-130
Carbon Disulfide	1.0		1.0	100	70-130
Allyl Chloride	1.0		0.97	97	70-130
Methylene Chloride	1.0		0.97	97	70-130
Acrylonitrile	1.0		0.95	95	70-130
trans-1,2-Dichloroethen	1.0		1.1	110	70-130
Methyl-t-Butyl Ether	1.0		1.0	100	70-130
1,1-Dichloroethane	1.0		0.98	98	70-130
2,2-Dichloropropane	1.0		0.98	98	70-130
cis-1,2-Dichloroethene	1.0		1.0	100	70-130
2-Butanone	5.0		4.5	90	70-130
Propionitrile	50		47	94	70-130
Methyl Acrylate	1.0		0.98	98	70-130
Bromochloromethane	1.0		1.0	100	70-130
Methacrylonitrile	1.0		0.97	97	70-130
Tetrahydrofuran	5.0		4.6	92	70-130
Chloroform	1.0		1.0	100	70-130
1,1,1-Trichloroethane	1.0		1.0	100	70-130
1-Chlorobutane	1.0		0.99	99	70-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS:

FORM 3
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70740

Matrix Spike - Sample No.: LMX QCSLCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
Carbon Tetrachloride	1.0		1.0	100	70-130
1,1-Dichloropropene	1.0		1.0	100	70-130
Benzene	1.0		0.98	98	70-130
1,2-Dichloroethane	1.0		1.0	100	70-130
Trichloroethene	1.0		1.0	100	70-130
1,2-Dichloropropane	1.0		1.0	100	70-130
Dibromomethane	1.0		1.0	100	70-130
Methyl Methacrylate	1.0		1.1	110	70-130
Bromodichloromethane	1.0		1.0	100	70-130
Chloroacetonitrile	50		20	40*	70-130
cis-1,3-Dichloropropene	1.0		1.3	130	70-130
1,1-Dichloropropanone	50		52	104	70-130
4-Methyl-2-Pentanone	5.0		5.0	100	70-130
2-Nitropropane	50		51	102	70-130
Toluene	1.0		0.95	95	70-130
trans-1,3-Dichloroprope	1.0		0.95	95	70-130
Ethyl Methacrylate	1.0		1.0	100	70-130
1,1,2-Trichloroethane	1.0		0.96	96	70-130
Tetrachloroethene	1.0		1.2	120	70-130
1,3-Dichloropropane	1.0		0.97	97	70-130
2-Hexanone	5.0		4.2	84	70-130
Dibromochloromethane	1.0		1.0	100	70-130
1,2-Dibromoethane	1.0		0.96	96	70-130
Chlorobenzene	1.0		0.96	96	70-130
1,1,1,2-Tetrachloroetha	1.0		1.0	100	70-130
Ethylbenzene	1.0		1.0	100	70-130
m- & p-Xylene	2.0		2.1	105	70-130
o-Xylene	1.0		0.99	99	70-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

FORM 3
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70740

Matrix Spike - Sample No.: LMX QCSLCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
Styrene	1.0		0.95	95	70-130
Bromoform	1.0		0.96	96	70-130
Xylene (total)	3.0		3.1	103	70-130
Isopropylbenzene	1.0		1.0	100	70-130
Bromobenzene	1.0		0.96	96	70-130
1,1,2,2-Tetrachloroetha	1.0		1.0	100	70-130
1,2,3-Trichloropropane	1.0		1.0	100	70-130
trans-1,4-Dichloro-2-bu	1.0		0.97	97	70-130
2-Chlorotoluene	1.0		0.99	99	70-130
4-Chlorotoluene	1.0		0.99	99	70-130
n-Propylbenzene	1.0		0.95	95	70-130
1,3,5-Trimethylbenzene	1.0		1.0	100	70-130
Pentachloroethane	1.0		0.74	74	70-130
tert-Butylbenzene	1.0		0.99	99	70-130
1,2,4-Trimethylbenzene	1.0		1.0	100	70-130
sec-Butylbenzene	1.0		1.0	100	70-130
1,3-Dichlorobenzene	1.0		1.0	100	70-130
p-Isopropyltoluene	1.0		1.0	100	70-130
1,4-Dichlorobenzene	1.0		1.1	110	70-130
1,2-Dichlorobenzene	1.0		1.1	110	70-130
n-Butylbenzene	1.0		1.0	100	70-130
Hexachloroethane	1.0		1.0	100	70-130
1,2-Dibromo-3-Chloropro	1.0		1.0	100	70-130
Nitrobenzene	1.0		0.89	89	70-130
1,2,4-Trichlorobenzene	1.0		1.1	110	70-130
Hexachlorobutadiene	1.0		1.2	120	70-130
Naphthalene	1.0		1.0	100	70-130
1,2,3-Trichlorobenzene	1.0		1.1	110	70-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

FORM 3
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70740

Matrix Spike - Sample No.: LMXGQCSLCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
Dichlorodifluoromethane	1.0		1.1	110	70-130
Chloromethane	1.0		1.2	120	70-130
Vinyl Chloride	1.0		0.99	99	70-130
Bromomethane	1.0		1.1	110	70-130
Chloroethane	1.0		1.0	100	70-130
Trichlorofluoromethane	1.0		1.0	100	70-130
1,1-Dichloroethene	1.0		0.93	93	70-130
Acetone	5.0		6.1	122	70-130
Carbon Disulfide	1.0		0.95	95	70-130
Methylene Chloride	1.0		1.1	110	70-130
trans-1,2-Dichloroethen	1.0		0.98	98	70-130
Methyl-t-Butyl Ether	1.0		1.1	110	70-130
1,1-Dichloroethane	1.0		0.99	99	70-130
2,2-Dichloropropane	1.0		1.1	110	70-130
cis-1,2-Dichloroethene	1.0		1.0	100	70-130
2-Butanone	5.0		5.2	104	70-130
Bromochloromethane	1.0		1.1	110	70-130
Chloroform	1.0		1.0	100	70-130
1,1,1-Trichloroethane	1.0		0.93	93	70-130
Carbon Tetrachloride	1.0		0.91	91	70-130
1,1-Dichloropropene	1.0		0.95	95	70-130
Benzene	1.0		0.99	99	70-130
1,2-Dichloroethane	1.0		1.0	100	70-130
Trichloroethene	1.0		0.94	94	70-130
1,2-Dichloropropane	1.0		0.99	99	70-130
Dibromomethane	1.0		1.1	110	70-130
Bromodichloromethane	1.0		1.1	110	70-130
cis-1,3-Dichloropropene	1.0		1.0	100	70-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

FORM 3
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70740

Matrix Spike - Sample No.: LMXGQCSLCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
4-Methyl-2-Pentanone	5.0		4.7	94	70-130
Toluene	1.0		0.95	95	70-130
trans-1,3-Dichloroprope	1.0		1.1	110	70-130
1,1,2-Trichloroethane	1.0		1.1	110	70-130
Tetrachloroethene	1.0		0.92	92	70-130
1,3-Dichloropropane	1.0		1.0	100	70-130
2-Hexanone	5.0		3.6	72	70-130
Dibromochloromethane	1.0		1.1	110	70-130
1,2-Dibromoethane	1.0		1.1	110	70-130
Chlorobenzene	1.0		1.0	100	70-130
1,1,1,2-Tetrachloroetha	1.0		1.0	100	70-130
Ethylbenzene	1.0		0.95	95	70-130
m- & p-Xylene	2.0		1.9	95	70-130
o-Xylene	1.0		0.93	93	70-130
Styrene	1.0		0.93	93	70-130
Bromoform	1.0		1.0	100	70-130
Isopropylbenzene	1.0		0.91	91	70-130
Bromobenzene	1.0		1.0	100	70-130
1,1,2,2-Tetrachloroetha	1.0		1.1	110	70-130
1,2,3-Trichloropropane	1.0		0.95	95	70-130
2-Chlorotoluene	1.0		0.98	98	70-130
4-Chlorotoluene	1.0		0.98	98	70-130
n-Propylbenzene	1.0		0.90	90	70-130
1,3,5-Trimethylbenzene	1.0		0.99	99	70-130
tert-Butylbenzene	1.0		1.0	100	70-130
1,2,4-Trimethylbenzene	1.0		1.0	100	70-130
sec-Butylbenzene	1.0		1.1	110	70-130
1,3-Dichlorobenzene	1.0		1.1	110	70-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS:

FORM 3
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70740

Matrix Spike - Sample No.: LMXGQCSLCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
p-Isopropyltoluene	1.0		1.1	110	70-130
1,4-Dichlorobenzene	1.0		1.2	120	70-130
1,2-Dichlorobenzene	1.0		1.2	120	70-130
n-Butylbenzene	1.0		1.2	120	70-130
1,2-Dibromo-3-Chloropro	1.0		1.4	140*	70-130
1,2,4-Trichlorobenzene	1.0		1.4	140*	70-130
Hexachlorobutadiene	1.0		1.5	150*	70-130
Naphthalene	1.0		1.3	130	70-130
1,2,3-Trichlorobenzene	1.0		1.4	140*	70-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limits

Spike Recovery: 4 out of 65 outside limits

COMMENTS: _____

FORM 3
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70740

Matrix Spike - GEICO2 Sample No.: MPZQCSLCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
Dichlorodifluoromethane	1.0		0.80	80	70-130
Chloromethane	1.0		0.98	98	70-130
Vinyl Chloride	1.0		0.91	91	70-130
Bromomethane	1.0		1.1	110	70-130
Chloroethane	1.0		1.0	100	70-130
Trichlorofluoromethane	1.0		1.0	100	70-130
1,1-Dichloroethene	1.0		1.0	100	70-130
Acetone	5.0		5.2	104	70-130
Carbon Disulfide	1.0		1.1	110	70-130
Methylene Chloride	1.0		1.0	100	70-130
trans-1,2-Dichloroethen	1.0		1.0	100	70-130
Methyl-t-Butyl Ether	1.0		1.0	100	70-130
1,1-Dichloroethane	1.0		1.1	110	70-130
2,2-Dichloropropane	1.0		1.0	100	70-130
cis-1,2-Dichloroethene	1.0		0.91	91	70-130
2-Butanone	5.0		4.4	88	70-130
Bromochloromethane	1.0		1.0	100	70-130
Chloroform	1.0		1.1	110	70-130
1,1,1-Trichloroethane	1.0		1.0	100	70-130
Carbon Tetrachloride	1.0		1.0	100	70-130
1,1-Dichloropropene	1.0		1.1	110	70-130
Benzene	1.0		0.97	97	70-130
1,2-Dichloroethane	1.0		1.0	100	70-130
Trichloroethene	1.0		0.98	98	70-130
1,2-Dichloropropane	1.0		0.99	99	70-130
Dibromomethane	1.0		0.97	97	70-130
Bromodichloromethane	1.0		0.98	98	70-130
cis-1,3-Dichloropropene	1.0		0.94	94	70-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

FORM 3
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70740

Matrix Spike - GEICO2 Sample No.: MPZQCSLCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
4-Methyl-2-Pentanone	5.0		4.4	88	70-130
Toluene	1.0		0.98	98	70-130
trans-1,3-Dichloroprope	1.0		1.0	100	70-130
1,1,2-Trichloroethane	1.0		0.99	99	70-130
Tetrachloroethene	1.0		1.1	110	70-130
1,3-Dichloropropane	1.0		0.95	95	70-130
2-Hexanone	5.0		3.6	72	70-130
Dibromochloromethane	1.0		0.97	97	70-130
1,2-Dibromoethane	1.0		0.89	89	70-130
Chlorobenzene	1.0		0.98	98	70-130
1,1,1,2-Tetrachloroetha	1.0		0.98	98	70-130
Ethylbenzene	1.0		1.0	100	70-130
m- & p-Xylene	2.0		1.9	95	70-130
o-Xylene	1.0		0.97	97	70-130
Styrene	1.0		0.92	92	70-130
Bromoform	1.0		0.92	92	70-130
Xylene (total)	3.0		3.0	100	70-130
Isopropylbenzene	1.0		0.97	97	70-130
Bromobenzene	1.0		0.98	98	70-130
1,1,2,2-Tetrachloroetha	1.0		0.95	95	70-130
1,2,3-Trichloropropane	1.0		0.94	94	70-130
2-Chlorotoluene	1.0		1.0	100	70-130
4-Chlorotoluene	1.0		0.96	96	70-130
n-Propylbenzene	1.0		0.93	93	70-130
1,3,5-Trimethylbenzene	1.0		0.99	99	70-130
tert-Butylbenzene	1.0		0.98	98	70-130
1,2,4-Trimethylbenzene	1.0		1.0	100	70-130
sec-Butylbenzene	1.0		1.0	100	70-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

FORM 3
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70740

Matrix Spike - GEICO2 Sample No.: MPZQCSLCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
1,3-Dichlorobenzene	1.0		0.92	92	70-130
p-Isopropyltoluene	1.0		1.0	100	70-130
1,4-Dichlorobenzene	1.0		0.94	94	70-130
1,2-Dichlorobenzene	1.0		1.0	100	70-130
n-Butylbenzene	1.0		0.88	88	70-130
1,2-Dibromo-3-Chloropro	1.0		1.1	110	70-130
1,2,4-Trichlorobenzene	1.0		1.1	110	70-130
Hexachlorobutadiene	1.0		1.2	120	70-130
Naphthalene	1.0		1.1	110	70-130
1,2,3-Trichlorobenzene	1.0		1.0	100	70-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limits

Spike Recovery: 0 out of 66 outside limits

COMMENTS:

FORM 3
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70740

Matrix Spike - Sample No.: MPZAQCSLCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
Dichlorodifluoromethane	1.0		0.87	87	70-130
Chloromethane	1.0		1.1	110	70-130
Vinyl Chloride	1.0		0.95	95	70-130
Bromomethane	1.0		1.2	120	70-130
Chloroethane	1.0		1.0	100	70-130
Trichlorofluoromethane	1.0		0.96	96	70-130
1,1-Dichloroethene	1.0		0.91	91	70-130
Acetone	5.0		5.5	110	70-130
Carbon Disulfide	1.0		1.0	100	70-130
Methylene Chloride	1.0		0.97	97	70-130
trans-1,2-Dichloroethen	1.0		0.91	91	70-130
Methyl-t-Butyl Ether	1.0		0.84	84	70-130
1,1-Dichloroethane	1.0		0.98	98	70-130
2,2-Dichloropropane	1.0		1.0	100	70-130
cis-1,2-Dichloroethene	1.0		0.94	94	70-130
2-Butanone	5.0		4.1	82	70-130
Bromochloromethane	1.0		0.96	96	70-130
Chloroform	1.0		0.90	90	70-130
1,1,1-Trichloroethane	1.0		0.94	94	70-130
Carbon Tetrachloride	1.0		0.97	97	70-130
1,1-Dichloropropene	1.0		0.99	99	70-130
Benzene	1.0		0.94	94	70-130
1,2-Dichloroethane	1.0		0.98	98	70-130
Trichloroethene	1.0		0.95	95	70-130
1,2-Dichloropropane	1.0		0.97	97	70-130
Dibromomethane	1.0		0.98	98	70-130
Bromodichloromethane	1.0		0.92	92	70-130
cis-1,3-Dichloropropene	1.0		1.0	100	70-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

FORM 3
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70740

Matrix Spike - Sample No.: MPZAQCSLCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
4-Methyl-2-Pentanone	5.0		4.1	82	70-130
Toluene	1.0		0.93	93	70-130
trans-1,3-Dichloroprope	1.0		0.84	84	70-130
1,1,2-Trichloroethane	1.0		0.90	90	70-130
Tetrachloroethene	1.0		0.74	74	70-130
1,3-Dichloropropane	1.0		0.89	89	70-130
2-Hexanone	5.0		4.1	82	70-130
Dibromochloromethane	1.0		0.86	86	70-130
1,2-Dibromoethane	1.0		0.83	83	70-130
Chlorobenzene	1.0		0.93	93	70-130
1,1,1,2-Tetrachloroetha	1.0		0.92	92	70-130
Ethylbenzene	1.0		0.96	96	70-130
m- & p-Xylene	2.0		1.8	90	70-130
o-Xylene	1.0		0.91	91	70-130
Styrene	1.0		0.85	85	70-130
Bromoform	1.0		0.73	73	70-130
Xylene (total)	3.0		2.8	93	70-130
Isopropylbenzene	1.0		0.94	94	70-130
Bromobenzene	1.0		0.88	88	70-130
1,1,2,2-Tetrachloroetha	1.0		0.93	93	70-130
1,2,3-Trichloropropane	1.0		0.76	76	70-130
2-Chlorotoluene	1.0		0.98	98	70-130
4-Chlorotoluene	1.0		0.95	95	70-130
n-Propylbenzene	1.0		0.86	86	70-130
1,3,5-Trimethylbenzene	1.0		0.94	94	70-130
tert-Butylbenzene	1.0		0.89	89	70-130
1,2,4-Trimethylbenzene	1.0		0.95	95	70-130
sec-Butylbenzene	1.0		0.96	96	70-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS:

FORM 3
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70740

Matrix Spike - Sample No.: MPZAQCSLCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
1,3-Dichlorobenzene	1.0		0.90	90	70-130
p-Isopropyltoluene	1.0		0.91	91	70-130
1,4-Dichlorobenzene	1.0		0.91	91	70-130
1,2-Dichlorobenzene	1.0		0.93	93	70-130
n-Butylbenzene	1.0		0.93	93	70-130
1,2-Dibromo-3-Chloropro	1.0		0.91	91	70-130
1,2,4-Trichlorobenzene	1.0		0.78	78	70-130
Hexachlorobutadiene	1.0		0.87	87	70-130
Naphthalene	1.0		0.88	88	70-130
1,2,3-Trichlorobenzene	1.0		0.80	80	70-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limits

Spike Recovery: 0 out of 66 outside limits

COMMENTS: _____

FORM 3
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70740

Matrix Spike - Sample No.: MPZBLCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
Dichlorodifluoromethane	1.0		0.89	89	70-130
Chloromethane	1.0		1.1	110	70-130
Vinyl Chloride	1.0		0.95	95	70-130
Bromomethane	1.0		1.0	100	70-130
Chloroethane	1.0		0.99	99	70-130
Trichlorofluoromethane	1.0		1.0	100	70-130
1,1-Dichloroethene	1.0		1.0	100	70-130
Acetone	5.0		5.1	102	70-130
Carbon Disulfide	1.0		1.0	100	70-130
Methylene Chloride	1.0		1.1	110	70-130
trans-1,2-Dichloroethen	1.0		1.0	100	70-130
Methyl-t-Butyl Ether	1.0		0.84	84	70-130
1,1-Dichloroethane	1.0		0.94	94	70-130
2,2-Dichloropropane	1.0		1.0	100	70-130
cis-1,2-Dichloroethene	1.0		0.87	87	70-130
2-Butanone	5.0		4.0	80	70-130
Bromochloromethane	1.0		0.92	92	70-130
Chloroform	1.0		0.92	92	70-130
1,1,1-Trichloroethane	1.0		0.94	94	70-130
Carbon Tetrachloride	1.0		0.99	99	70-130
1,1-Dichloropropene	1.0		1.0	100	70-130
Benzene	1.0		0.93	93	70-130
1,2-Dichloroethane	1.0		1.0	100	70-130
Trichloroethene	1.0		0.93	93	70-130
1,2-Dichloropropane	1.0		1.0	100	70-130
Dibromomethane	1.0		0.98	98	70-130
Bromodichloromethane	1.0		0.96	96	70-130
cis-1,3-Dichloropropene	1.0		0.98	98	70-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS:

FORM 3
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70740

Matrix Spike - Sample No.: MPZBLCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
4-Methyl-2-Pentanone	5.0		3.9	78	70-130
Toluene	1.0		1.0	100	70-130
trans-1,3-Dichloroprope	1.0		0.93	93	70-130
1,1,2-Trichloroethane	1.0		0.92	92	70-130
Tetrachloroethene	1.0		0.77	77	70-130
1,3-Dichloropropane	1.0		0.92	92	70-130
2-Hexanone	5.0		3.2	64*	70-130
Dibromochloromethane	1.0		0.92	92	70-130
1,2-Dibromoethane	1.0		0.96	96	70-130
Chlorobenzene	1.0		1.0	100	70-130
1,1,1,2-Tetrachloroetha	1.0		1.0	100	70-130
Ethylbenzene	1.0		1.1	110	70-130
m- & p-Xylene	2.0		2.1	105	70-130
o-Xylene	1.0		1.0	100	70-130
Styrene	1.0		0.93	93	70-130
Bromoform	1.0		0.75	75	70-130
Xylene (total)	3.0		3.2	107	70-130
Isopropylbenzene	1.0		1.0	100	70-130
Bromobenzene	1.0		0.91	91	70-130
1,1,2,2-Tetrachloroetha	1.0		0.92	92	70-130
1,2,3-Trichloropropane	1.0		0.85	85	70-130
2-Chlorotoluene	1.0		0.99	99	70-130
4-Chlorotoluene	1.0		0.96	96	70-130
n-Propylbenzene	1.0		1.0	100	70-130
1,3,5-Trimethylbenzene	1.0		1.1	110	70-130
tert-Butylbenzene	1.0		0.96	96	70-130
1,2,4-Trimethylbenzene	1.0		1.1	110	70-130
sec-Butylbenzene	1.0		1.1	110	70-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS:

FORM 3
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70740

Matrix Spike - Sample No.: MPZBLCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
1,3-Dichlorobenzene	1.0		0.95	95	70-130
p-Isopropyltoluene	1.0		1.0	100	70-130
1,4-Dichlorobenzene	1.0		0.96	96	70-130
1,2-Dichlorobenzene	1.0		0.97	97	70-130
n-Butylbenzene	1.0		0.96	96	70-130
1,2-Dibromo-3-Chloropro	1.0		0.90	90	70-130
1,2,4-Trichlorobenzene	1.0		0.85	85	70-130
Hexachlorobutadiene	1.0		0.81	81	70-130
Naphthalene	1.0		0.77	77	70-130
1,2,3-Trichlorobenzene	1.0		0.83	83	70-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limits

Spike Recovery: 1 out of 66 outside limits

COMMENTS:

FORM 4
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

VBLKG2

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70740

Lab File ID: LMXB003GV Lab Sample ID: VBLKG2

Date Analyzed: 09/28/98 Time Analyzed: 1156

GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

Instrument ID: L

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	LMXGQCSLCS	LMXGQCSLCS	LMX001GQ3V	1123
02	AL810	366794	L366794V	1331
03	AL200	366795	L366795V	1402
04	AL201	366797	L366797V	1430
05	AL202	366799	L366799V	1501
06	AL203	366801	L366801V	1528
07	AL204	366803	L366803V	1557
08	AL205	366805	L366805V	1626
09	AL206	366806	L366806V	1655
10	AL209	366808	L366808V	1724
11				
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COMMENTS:

FORM 4
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

VBLKH5

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70740

Lab File ID: MPZB001AV Lab Sample ID: VBLKH5

Date Analyzed: 09/30/98 Time Analyzed: 0800

GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

Instrument ID: M

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	MPZAQCSLCS	MPZAQCSLCS	MPZ001AQ2V	0918
02	AL218	367128	M367128V	1419
03	AL218MS	367128MS	M367128MSV	1448
04	AL218MSD	367128MD	M367128MDV	1518
05	AL217	367130	M367130V	1547
06	AL818	367132	M367132V	1616
07	AL816	367133	M367133V	1645
08	AL216	367134	M367134V	1711
09	AL215	367135	M367135V	1739
10	AL214	367136	M367136V	1808
11	AL817	367137	M367137V	1837
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COMMENTS:

FORM 4
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

VBLKI1

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011
 Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70740
 Lab File ID: MPZB001BV Lab Sample ID: VBLKI1
 Date Analyzed: 10/01/98 Time Analyzed: 0901
 GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) N
 Instrument ID: M

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	MPZBLCS	MPZBLCS	MPZ001BV	0936
02	AL216RE	367134R1	M367134I2V	1024
03				
04				
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COMMENTS:

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70740

Lab File ID: LMX001PV BFB Injection Date: 08/04/98

Instrument ID: L BFB Injection Time: 1436

GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.6
75	30.0 - 60.0% of mass 95	42.8
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	5.8
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	60.8
175	5.0 - 9.0% of mass 174	4.1 (6.8)1
176	95.0 - 101.0% of mass 174	59.7 (98.1)1
177	5.0 - 9.0% of mass 176	3.8 (6.3)2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD0005	VSTD0005	LMX0005HV	08/04/98	1532
02	VSTD002	VSTD002	LMX002HV	08/04/98	1601
03	VSTD010	VSTD010	LMX010HV	08/04/98	1630
04	VSTD020	VSTD020	LMX020HV	08/04/98	1659
05	VSTD030	VSTD030	LMX030HV	08/04/98	1728
06	LMX QCSLCS	LMX QCSLCS	LMX001WV	08/04/98	1826
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FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70740

Lab File ID: LMX011PV BFB Injection Date: 09/28/98

Instrument ID: L BFB Injection Time: 0722

GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.2
75	30.0 - 60.0% of mass 95	44.7
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.1
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	61.1
175	5.0 - 9.0% of mass 174	4.3 (7.0)1
176	95.0 - 101.0% of mass 174	59.8 (97.9)1
177	5.0 - 9.0% of mass 176	4.2 (7.0)2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD002	VSTD002	LMX002GH2V	09/28/98	0819
02	LMXGQCSLCS	LMXGQCSLCS	LMX001GQ3V	09/28/98	1123
03	VBLKG2	VBLKG2	LMXB003GV	09/28/98	1156
04	AL810	366794	L366794V	09/28/98	1331
05	AL200	366795	L366795V	09/28/98	1402
06	AL201	366797	L366797V	09/28/98	1430
07	AL202	366799	L366799V	09/28/98	1501
08	AL203	366801	L366801V	09/28/98	1528
09	AL204	366803	L366803V	09/28/98	1557
10	AL205	366805	L366805V	09/28/98	1626
11	AL206	366806	L366806V	09/28/98	1655
12	AL209	366808	L366808V	09/28/98	1724
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FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70740

Lab File ID: MPZ002PV BFB Injection Date: 09/29/98

Instrument ID: M BFB Injection Time: 1115

GC Column: CAP ID: 0.53 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	20.0
75	30.0 - 60.0% of mass 95	48.6
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.1
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	62.9
175	5.0 - 9.0% of mass 174	3.8 (6.1)1
176	95.0 - 101.0% of mass 174	62.5 (99.4)1
177	5.0 - 9.0% of mass 176	4.0 (6.4)2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD0005	VSTD0005	MPZ0005HV	09/29/98	1203
02	VSTD010	VSTD010	MPZ002HV	09/29/98	1245
03	VSTD010	VSTD010	MPZ010HV	09/29/98	1317
04	VSTD020	VSTD020	MPZ020HV	09/29/98	1346
05	VSTD030	VSTD030	MPZ030HV	09/29/98	1416
06	MPZQCSLCS	MPZQCSLCS	MPZ001QV	09/29/98	1638
07					
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FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70740

Lab File ID: MPZ004PV BFB Injection Date: 09/30/98

Instrument ID: M BFB Injection Time: 0653

GC Column: CAP ID: 0.53 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.9
75	30.0 - 60.0% of mass 95	49.7
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	5.9
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	61.7
175	5.0 - 9.0% of mass 174	4.2 (6.8)1
176	95.0 - 101.0% of mass 174	60.1 (97.5)1
177	5.0 - 9.0% of mass 176	3.6 (6.0)2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD002	VSTD002	MPZ002AHV	09/30/98	0702
02	VBLKH5	VBLKH5	MPZB001AV	09/30/98	0800
03	MPZAQCSLCS	MPZAQCSLCS	MPZ001AQ2V	09/30/98	0918
04	AL218	367128	M367128V	09/30/98	1419
05	AL218MS	367128MS	M367128MSV	09/30/98	1448
06	AL218MSD	367128MD	M367128MDV	09/30/98	1518
07	AL217	367130	M367130V	09/30/98	1547
08	AL818	367132	M367132V	09/30/98	1616
09	AL816	367133	M367133V	09/30/98	1645
10	AL216	367134	M367134V	09/30/98	1711
11	AL215	367135	M367135V	09/30/98	1739
12	AL214	367136	M367136V	09/30/98	1808
13	AL817	367137	M367137V	09/30/98	1837
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FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70740

Lab File ID: MPZ012PV BFB Injection Date: 10/01/98

Instrument ID: M BFB Injection Time: 0800

GC Column: CAP ID: 0.53 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	20.1
75	30.0 - 60.0% of mass 95	49.2
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	57.6
175	5.0 - 9.0% of mass 174	3.2 (5.5)1
176	95.0 - 101.0% of mass 174	54.8 (95.2)1
177	5.0 - 9.0% of mass 176	3.7 (6.7)2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD002	VSTD002	MPZ002BHV	10/01/98	0815
02	VBLKI1	VBLKI1	MPZB001BV	10/01/98	0901
03	MPZBLCS	MPZBLCS	MPZ001BV	10/01/98	0936
04	AL216RE	367134R1	M367134I2V	10/01/98	1024
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6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70740

Instrument ID: L Calibration Date(s): 08/04/98 08/04/98

Heated Purge: (Y/N) N Calibration Time(s): 1532 1728

GC Column: DB-624 ID: 0.53 (mm)

LAB FILE ID:		RRF0.5=LMX0005HV	RRF2 =LMX002HV				
RRF10 =LMX010HV		RRF20 =LMX020HV	RRF30 =LMX030HV				
COMPOUND	RRF0.5	RRF2	RRF10	RRF20	RRF30	RRF	% RSD
Dichlorodifluoromethane	0.309	0.340	0.330	0.328	0.312	0.324	4.1
Chloromethane	0.235	0.219	0.201	0.199	0.192	0.209	8.3
Vinyl Chloride	0.225	0.241	0.236	0.231	0.221	0.231	3.5
Bromomethane	0.306	0.270	0.243	0.227	0.207	0.251	15.4
Chloroethane	0.145	0.162	0.155	0.149	0.140	0.150	5.8
Trichlorofluoromethane	0.462	0.486	0.468	0.455	0.434	0.461	4.1
1,1-Dichloroethene	0.304	0.286	0.268	0.263	0.245	0.273	8.3
Acetone	0.053	0.050	0.049	0.045	0.043	0.048	8.2
Carbon Disulfide	0.789	0.778	0.742	0.716	0.686	0.742	5.7
Methylene Chloride	0.286	0.285	0.262	0.254	0.248	0.267	6.6
trans-1,2-Dichloroethene	0.340	0.298	0.288	0.282	0.272	0.296	8.9
Methyl-t-Butyl Ether	0.629	0.634	0.605	0.575	0.558	0.600	5.5
1,1-Dichloroethane	0.568	0.570	0.530	0.507	0.492	0.533	6.6
2,2-Dichloropropane	0.509	0.490	0.454	0.433	0.418	0.461	8.3
cis-1,2-Dichloroethene	0.318	0.332	0.311	0.298	0.292	0.310	5.1
2-Butanone	0.013	0.018	0.018	0.019	0.019	0.017	14.1
Bromochloromethane	0.327	0.324	0.312	0.299	0.292	0.311	4.9
Chloroform	0.569	0.583	0.553	0.524	0.520	0.550	5.0
1,1,1-Trichloroethane	0.515	0.531	0.510	0.484	0.475	0.503	4.6
Carbon Tetrachloride	0.435	0.452	0.428	0.411	0.402	0.426	4.7
1,1-Dichloropropene	0.499	0.475	0.432	0.418	0.401	0.445	9.1
Benzene	0.895	0.924	0.883	0.852	0.826	0.876	4.3
1,2-Dichloroethane	0.305	0.329	0.311	0.295	0.285	0.305	5.4
Trichloroethene	0.388	0.382	0.369	0.355	0.340	0.367	5.3
1,2-Dichloropropane	0.354	0.369	0.357	0.342	0.330	0.350	4.3
Dibromomethane	0.229	0.264	0.262	0.248	0.237	0.248	6.1
Bromodichloromethane	0.553	0.575	0.546	0.533	0.498	0.541	5.2
cis-1,3-Dichloropropene	0.801	0.724	0.622	0.590	0.548	0.657	15.8
4-Methyl-2-Pentanone	0.081	0.094	0.097	0.092	0.088	0.090	7.0
Toluene	0.634	0.644	0.629	0.615	0.581	0.621	3.9
trans-1,3-Dichloropropene	0.397	0.400	0.408	0.409	0.395	0.402	1.6
1,1,2-Trichloroethane	0.240	0.253	0.247	0.237	0.224	0.240	4.6
Tetrachloroethene	0.384	0.417	0.404	0.391	0.398	0.399	3.2
1,3-Dichloropropane	0.443	0.472	0.472	0.468	0.444	0.460	3.3
2-Hexanone	0.098	0.122	0.151	0.160	0.152	0.137	19.1
Dibromochloromethane	0.514	0.552	0.553	0.536	0.520	0.535	3.4
1,2-Dibromoethane	0.487	0.512	0.538	0.524	0.506	0.513	3.8

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70740

Instrument ID: L Calibration Date(s): 08/04/98 08/04/98

Heated Purge: (Y/N) N Calibration Time(s): 1532 1728

GC Column: DB-624 ID: 0.53 (mm)

LAB FILE ID:	RRF0.5=LMX0005HV	RRF2 =LMX002HV	RRF10 =LMX010HV	RRF20 =LMX020HV	RRF30 =LMX030HV		
COMPOUND	RRF0.5	RRF2	RRF10	RRF20	RRF30	RRF	% RSD
Chlorobenzene	1.002	0.986	1.005	0.978	0.937	0.982	2.8
1,1,1,2-Tetrachloroethane	0.441	0.458	0.445	0.439	0.426	0.442	2.6
Ethylbenzene	1.779	1.773	1.711	1.635	1.565	1.693	5.4
m- & p-Xylene	0.646	0.633	0.646	0.630	0.610	0.633	2.4
o-Xylene	0.621	0.644	0.631	0.605	0.589	0.618	3.4
Styrene	0.999	1.038	1.055	1.029	0.988	1.022	2.7
Bromoform	0.368	0.387	0.405	0.401	0.390	0.390	3.8
Xylene (total)	0.621	0.644	0.631	0.605	0.589	0.618	3.4
Isopropylbenzene	1.869	1.877	1.842	1.762	1.701	1.810	4.2
Bromobenzene	0.458	0.472	0.468	0.458	0.441	0.459	2.6
1,1,2,2-Tetrachloroethane	0.656	0.632	0.632	0.592	0.565	0.615	5.9
1,2,3-Trichloropropane	0.152	0.151	0.157	0.152	0.148	0.152	2.1
2-Chlorotoluene	0.376	0.400	0.386	0.376	0.363	0.380	3.6
4-Chlorotoluene	0.399	0.394	0.388	0.382	0.366	0.386	3.3
n-Propylbenzene	0.429	0.442	0.448	0.442	0.422	0.437	2.5
1,3,5-Trimethylbenzene	1.352	1.382	1.303	1.256	1.206	1.300	5.5
tert-Butylbenzene	0.327	0.349	0.329	0.323	0.311	0.328	4.3
1,2,4-Trimethylbenzene	1.351	1.274	1.267	1.226	1.172	1.258	5.2
sec-Butylbenzene	1.942	1.865	1.824	1.752	1.661	1.809	5.9
1,3-Dichlorobenzene	0.728	0.713	0.726	0.706	0.675	0.710	3.0
p-Isopropyltoluene	1.396	1.351	1.302	1.250	1.199	1.300	6.0
1,4-Dichlorobenzene	0.834	0.782	0.782	0.767	0.725	0.778	5.0
1,2-Dichlorobenzene	0.657	0.704	0.644	0.623	0.592	0.644	6.5
n-Butylbenzene	1.449	1.311	1.234	1.182	1.123	1.260	10.0
1,2-Dibromo-3-Chloropropane	0.141	0.121	0.123	0.119	0.117	0.124	7.9
1,2,4-Trichlorobenzene	0.508	0.483	0.489	0.471	0.451	0.480	4.4
Hexachlorobutadiene	0.247	0.251	0.244	0.242	0.230	0.243	3.3
Naphthalene	1.004	0.869	0.885	0.877	0.845	0.896	7.0
1,2,3-Trichlorobenzene	0.486	0.436	0.441	0.431	0.414	0.442	6.0
1,2-Dichloroethane-d4	0.304	0.307	0.290	0.278	0.265	0.289	6.2
Bromofluorobenzene	0.812	0.801	0.817	0.794	0.758	0.796	2.9
1,2-Dichlorobenzene-d4	0.484	0.456	0.448	0.439	0.418	0.449	5.3
Toluene-d8	0.883	0.932	0.903	0.868	0.827	0.883	4.4

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70740

Instrument ID: M Calibration Date(s): 09/29/98 09/29/98

Heated Purge: (Y/N) N Calibration Time(s): 1203 1416

GC Column: DB-624 ID: 0.53 (mm)

LAB FILE ID:		RRF0.5=MPZ0005HV		RRF2 =MPZ002HV		RRF10 =MPZ010HV		RRF20 =MPZ020HV		RRF30 =MPZ030HV	
COMPOUND	RRF0.5	RRF2	RRF10	RRF20	RRF30	RRF	%	RSD			
Dichlorodifluoromethane	0.547	0.585	0.587	0.568	0.542	0.566	3.7				
Chloromethane	0.345	0.305	0.298	0.263	0.249	0.292	12.9				
Vinyl Chloride	0.301	0.343	0.330	0.322	0.302	0.320	5.8				
Bromomethane	0.298	0.257	0.232	0.218	0.191	0.239	17.0				
Chloroethane	0.192	0.203	0.195	0.187	0.168	0.189	7.1				
Trichlorofluoromethane	0.543	0.587	0.610	0.601	0.581	0.584	4.4				
1,1-Dichloroethene	0.295	0.272	0.286	0.283	0.275	0.282	3.3				
Acetone	0.054	0.052	0.048	0.046	0.044	0.049	8.1				
Carbon Disulfide	0.847	0.837	0.837	0.819	0.809	0.830	1.9				
Methylene Chloride	0.304	0.300	0.282	0.283	0.286	0.291	3.5				
trans-1,2-Dichloroethene	0.306	0.295	0.306	0.301	0.308	0.303	1.8				
Methyl-t-Butyl Ether	0.666	0.634	0.654	0.640	0.666	0.652	2.3				
1,1-Dichloroethane	0.685	0.588	0.622	0.585	0.607	0.617	6.6				
2,2-Dichloropropane	0.550	0.539	0.521	0.500	0.520	0.526	3.6				
cis-1,2-Dichloroethene	0.367	0.334	0.346	0.331	0.342	0.344	4.1				
2-Butanone	0.017	0.024	0.024	0.023	0.023	0.022	13.1				
Bromochloromethane	0.345	0.388	0.395	0.381	0.398	0.381	5.6				
Chloroform	0.602	0.677	0.697	0.678	0.725	0.676	6.7				
1,1,1-Trichloroethane	0.568	0.598	0.599	0.570	0.592	0.585	2.6				
Carbon Tetrachloride	0.494	0.531	0.553	0.539	0.564	0.536	5.0				
1,1-Dichloropropene	0.488	0.488	0.536	0.511	0.515	0.508	4.0				
Benzene	0.964	0.969	1.011	0.950	0.964	0.972	2.4				
1,2-Dichloroethane	0.336	0.380	0.373	0.353	0.352	0.359	4.9				
Trichloroethene	0.380	0.412	0.416	0.401	0.405	0.403	3.4				
1,2-Dichloropropane	0.436	0.431	0.430	0.413	0.404	0.423	3.2				
Dibromomethane	0.289	0.316	0.333	0.315	0.316	0.314	5.0				
Bromodichloromethane	0.654	0.677	0.708	0.657	0.669	0.673	3.2				
cis-1,3-Dichloropropene	0.652	0.594	0.688	0.622	0.600	0.631	6.2				
4-Methyl-2-Pentanone	0.114	0.116	0.122	0.112	0.140	0.121	9.5				
Toluene	0.622	0.624	0.682	0.648	0.642	0.644	3.8				
trans-1,3-Dichloropropene	0.392	0.474	0.543	0.503	0.495	0.481	11.7				
1,1,2-Trichloroethane	0.279	0.294	0.301	0.279	0.277	0.286	3.7				
Tetrachloroethene	0.434	0.516	0.569	0.577	0.678	0.555	16.1				
1,3-Dichloropropane	0.537	0.560	0.606	0.568	0.547	0.564	4.7				
2-Hexanone	0.119	0.166	0.192	0.183	0.175	0.167	17.1				
Dibromochloromethane	0.656	0.678	0.694	0.708	0.694	0.686	2.9				
1,2-Dibromoethane	0.537	0.590	0.606	0.616	0.581	0.586	5.2				

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70740

Instrument ID: M Calibration Date(s): 09/29/98 09/29/98

Heated Purge: (Y/N) N Calibration Time(s): 1203 1416

GC Column: DB-624 ID: 0.53 (mm)

LAB FILE ID: RRF0.5=MPZ0005HV RRF2 =MPZ002HV		RRF10 =MPZ010HV RRF20 =MPZ020HV		RRF30 =MPZ030HV			
COMPOUND	RRF0.5	RRF2	RRF10	RRF20	RRF30	RRF	% RSD
Chlorobenzene	0.868	0.968	0.983	1.013	0.973	0.961	5.7
1,1,1,2-Tetrachloroethane	0.536	0.512	0.520	0.534	0.518	0.524	2.0
Ethylbenzene	1.730	1.631	1.675	1.696	1.587	1.664	3.4
m- & p-Xylene	0.652	0.593	0.659	0.664	0.632	0.640	4.5
o-Xylene	0.595	0.599	0.639	0.648	0.609	0.618	3.9
Styrene	0.815	0.922	1.002	1.056	0.986	0.956	9.6
Bromoform	0.436	0.436	0.479	0.513	0.507	0.474	7.9
Xylene (total)	0.595	0.599	0.639	0.648	0.609	0.618	3.9
Isopropylbenzene	1.792	1.706	1.823	1.824	1.706	1.770	3.4
Bromobenzene	0.399	0.436	0.511	0.540	0.521	0.481	12.6
1,1,2,2-Tetrachloroethane	0.649	0.733	0.688	0.683	0.611	0.673	6.8
1,2,3-Trichloropropane	0.147	0.174	0.180	0.180	0.169	0.170	8.1
2-Chlorotoluene	0.366	0.391	0.425	0.443	0.416	0.408	7.4
4-Chlorotoluene	0.386	0.408	0.429	0.446	0.426	0.419	5.4
n-Propylbenzene	0.370	0.393	0.450	0.460	0.434	0.421	9.2
1,3,5-Trimethylbenzene	1.189	1.213	1.310	1.302	1.210	1.245	4.5
tert-Butylbenzene	0.344	0.323	0.349	0.354	0.332	0.340	3.8
1,2,4-Trimethylbenzene	1.232	1.151	1.243	1.249	1.161	1.207	3.9
sec-Butylbenzene	1.817	1.691	1.809	1.787	1.640	1.749	4.5
1,3-Dichlorobenzene	0.690	0.722	0.818	0.829	0.797	0.771	8.0
p-Isopropyltoluene	1.289	1.248	1.360	1.364	1.261	1.304	4.2
1,4-Dichlorobenzene	0.907	0.868	0.889	0.910	0.868	0.888	2.3
1,2-Dichlorobenzene	0.673	0.718	0.751	0.744	0.717	0.721	4.3
n-Butylbenzene	1.255	1.110	1.215	1.208	1.106	1.179	5.7
1,2-Dibromo-3-Chloropropane	0.134	0.138	0.151	0.142	0.134	0.140	5.0
1,2,4-Trichlorobenzene	0.332	0.376	0.497	0.525	0.508	0.448	19.5
Hexachlorobutadiene	0.285	0.277	0.331	0.351	0.351	0.319	11.1
Naphthalene	0.530	0.697	0.841	0.859	0.823	0.750	18.5
1,2,3-Trichlorobenzene	0.384	0.389	0.450	0.474	0.465	0.432	10.0
1,2-Dichloroethane-d4	0.302	0.347	0.323	0.326	0.308	0.321	5.5
Bromofluorobenzene	0.771	0.745	0.829	0.833	0.783	0.792	4.8
1,2-Dichlorobenzene-d4	0.489	0.440	0.480	0.490	0.472	0.474	4.3
Toluene-d8	0.897	0.968	1.022	0.950	0.851	0.938	7.0

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70740

Instrument ID: L Calibration Date: 09/28/98 Time: 0819

Lab File ID: LMX002GH2V Init. Calib. Date(s): 08/04/98 08/04/98

Heated Purge: (Y/N) N Init. Calib. Times: 1532 1728

GC Column: DB-624 ID: 0.53 (mm)

COMPOUND	RRF	RRF2	MIN RRF	%D	MAX %D	
Dichlorodifluoromethane	0.324	0.526	0.01	-62.3	30.0	<-
Chloromethane	0.209	0.290	0.01	-38.8	30.0	<-
Vinyl Chloride	0.231	0.310	0.01	-34.2	30.0	<-
Bromomethane	0.251	0.326	0.01	-29.9	30.0	
Chloroethane	0.150	0.194	0.01	-29.3	30.0	
Trichlorofluoromethane	0.461	0.579	0.01	-25.6	30.0	
1,1-Dichloroethene	0.273	0.297	0.01	-8.8	30.0	
Acetone	0.048	0.056	0.01	-16.7	30.0	
Carbon Disulfide	0.742	0.826	0.01	-11.3	30.0	
Methylene Chloride	0.267	0.312	0.01	-16.8	30.0	
trans-1,2-Dichloroethene	0.296	0.330	0.01	-11.5	30.0	
Methyl-t-Butyl Ether	0.600	0.649	0.01	-8.2	30.0	
1,1-Dichloroethane	0.533	0.593	0.01	-11.2	30.0	
2,2-Dichloropropane	0.461	0.563	0.01	-22.1	30.0	
cis-1,2-Dichloroethene	0.310	0.360	0.01	-16.1	30.0	
2-Butanone	0.017	0.022	0.01	-29.4	30.0	
Bromochloromethane	0.311	0.364	0.01	-17.0	30.0	
Chloroform	0.550	0.614	0.01	-11.6	30.0	
1,1,1-Trichloroethane	0.503	0.568	0.01	-12.9	30.0	
Carbon Tetrachloride	0.426	0.486	0.01	-14.1	30.0	
1,1-Dichloropropene	0.445	0.488	0.01	-9.7	30.0	
Benzene	0.876	0.958	0.01	-9.4	30.0	
1,2-Dichloroethane	0.305	0.340	0.01	-11.5	30.0	
Trichloroethene	0.367	0.402	0.01	-9.5	30.0	
1,2-Dichloropropane	0.350	0.374	0.01	-6.8	30.0	
Dibromomethane	0.248	0.302	0.01	-21.8	30.0	
Bromodichloromethane	0.541	0.625	0.01	-15.5	30.0	
cis-1,3-Dichloropropene	0.657	0.747	0.01	-13.7	30.0	
4-Methyl-2-Pentanone	0.090	0.092	0.01	-2.2	30.0	
Toluene	0.621	0.646	0.01	-4.0	30.0	
trans-1,3-Dichloropropene	0.402	0.425	0.01	-5.7	30.0	
1,1,2-Trichloroethane	0.240	0.289	0.01	-20.4	30.0	
Tetrachloroethene	0.399	0.428	0.01	-7.3	30.0	
1,3-Dichloropropane	0.460	0.521	0.01	-13.3	30.0	
2-Hexanone	0.137	0.111	0.01	19.0	30.0	
Dibromochloromethane	0.535	0.596	0.01	-11.4	30.0	
1,2-Dibromoethane	0.513	0.552	0.01	-7.6	30.0	

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70740

Instrument ID: L Calibration Date: 09/28/98 Time: 0819

Lab File ID: LMX002GH2V Init. Calib. Date(s): 08/04/98 08/04/98

Heated Purge: (Y/N) N Init. Calib. Times: 1532 1728

GC Column: DB-624 ID: 0.53 (mm)

COMPOUND	RRF	RRF2	MIN RRF	%D	MAX %D
Chlorobenzene	0.982	1.017	0.01	-3.6	30.0
1,1,1,2-Tetrachloroethane	0.442	0.471	0.01	-6.6	30.0
Ethylbenzene	1.693	1.721	0.01	-1.6	30.0
m- & p-Xylene	0.633	0.646	0.01	-2.0	30.0
o-Xylene	0.618	0.627	0.01	-1.4	30.0
Styrene	1.022	1.055	0.01	-3.2	30.0
Bromoform	0.390	0.409	0.01	-4.9	30.0
Xylene (total)	0.618	0.627	0.01	-1.4	30.0
Isopropylbenzene	1.810	1.928	0.01	-6.5	30.0
Bromobenzene	0.459	0.509	0.01	-10.9	30.0
1,1,2,2-Tetrachloroethane	0.615	0.680	0.01	-10.6	30.0
1,2,3-Trichloropropane	0.152	0.154	0.01	-1.3	30.0
2-Chlorotoluene	0.380	0.422	0.01	-11.0	30.0
4-Chlorotoluene	0.386	0.416	0.01	-7.8	30.0
n-Propylbenzene	0.437	0.451	0.01	-3.2	30.0
1,3,5-Trimethylbenzene	1.300	1.422	0.01	-9.4	30.0
tert-Butylbenzene	0.328	0.359	0.01	-9.4	30.0
1,2,4-Trimethylbenzene	1.258	1.356	0.01	-7.8	30.0
sec-Butylbenzene	1.809	2.178	0.01	-20.4	30.0
1,3-Dichlorobenzene	0.710	0.830	0.01	-16.9	30.0
p-Isopropyltoluene	1.300	1.548	0.01	-19.1	30.0
1,4-Dichlorobenzene	0.778	0.900	0.01	-15.7	30.0
1,2-Dichlorobenzene	0.644	0.772	0.01	-19.9	30.0
n-Butylbenzene	1.260	1.589	0.01	-26.1	30.0
1,2-Dibromo-3-Chloropropane	0.124	0.129	0.01	-4.0	30.0
1,2,4-Trichlorobenzene	0.480	0.623	0.01	-29.8	30.0
Hexachlorobutadiene	0.243	0.278	0.01	-14.4	30.0
Naphthalene	0.896	1.012	0.01	-12.9	30.0
1,2,3-Trichlorobenzene	0.442	0.534	0.01	-20.8	30.0
1,2-Dichloroethane-d4	0.289	0.330	0.01	-14.2	30.0
Bromofluorobenzene	0.796	0.850	0.01	-6.8	30.0
1,2-Dichlorobenzene-d4	0.449	0.524	0.01	-16.7	30.0
Toluene-d8	0.883	0.944	0.01	-6.9	30.0

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70740

Instrument ID: M Calibration Date: 09/30/98 Time: 0702

Lab File ID: MPZ002AHV Init. Calib. Date(s): 09/29/98 09/29/98

Heated Purge: (Y/N) N Init. Calib. Times: 1203 1416

GC Column: DB-624 ID: 0.53 (mm)

COMPOUND	RRF	RRF2	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	0.566	0.560	0.01	1.1	30.0
Chloromethane	0.292	0.320	0.01	-9.6	30.0
Vinyl Chloride	0.320	0.346	0.01	-8.1	30.0
Bromomethane	0.239	0.307	0.01	-28.4	30.0
Chloroethane	0.189	0.206	0.01	-9.0	30.0
Trichlorofluoromethane	0.584	0.679	0.01	-16.3	30.0
1,1-Dichloroethene	0.282	0.297	0.01	-5.3	30.0
Acetone	0.049	0.051	0.01	-4.1	30.0
Carbon Disulfide	0.830	0.901	0.01	-8.6	30.0
Methylene Chloride	0.291	0.289	0.01	0.7	30.0
trans-1,2-Dichloroethene	0.303	0.303	0.01	0.0	30.0
Methyl-t-Butyl Ether	0.652	0.615	0.01	5.7	30.0
1,1-Dichloroethane	0.617	0.595	0.01	3.6	30.0
2,2-Dichloropropane	0.526	0.562	0.01	-6.8	30.0
cis-1,2-Dichloroethene	0.344	0.321	0.01	6.7	30.0
2-Butanone	0.022	0.020	0.01	9.1	30.0
Bromochloromethane	0.381	0.359	0.01	5.8	30.0
Chloroform	0.676	0.616	0.01	8.9	30.0
1,1,1-Trichloroethane	0.585	0.565	0.01	3.4	30.0
Carbon Tetrachloride	0.536	0.546	0.01	-1.9	30.0
1,1-Dichloropropene	0.508	0.517	0.01	-1.8	30.0
Benzene	0.972	0.973	0.01	-0.1	30.0
1,2-Dichloroethane	0.359	0.352	0.01	1.9	30.0
Trichloroethene	0.403	0.407	0.01	-1.0	30.0
1,2-Dichloropropane	0.423	0.428	0.01	-1.2	30.0
Dibromomethane	0.314	0.309	0.01	1.6	30.0
Bromodichloromethane	0.673	0.647	0.01	3.9	30.0
cis-1,3-Dichloropropene	0.631	0.601	0.01	4.8	30.0
4-Methyl-2-Pentanone	0.121	0.099	0.01	18.2	30.0
Toluene	0.644	0.623	0.01	3.3	30.0
trans-1,3-Dichloropropene	0.481	0.460	0.01	4.4	30.0
1,1,2-Trichloroethane	0.286	0.283	0.01	1.0	30.0
Tetrachloroethene	0.555	0.430	0.01	22.5	30.0
1,3-Dichloropropane	0.564	0.547	0.01	3.0	30.0
2-Hexanone	0.167	0.134	0.01	19.8	30.0
Dibromochloromethane	0.686	0.624	0.01	9.0	30.0
1,2-Dibromoethane	0.586	0.553	0.01	5.6	30.0

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70740

Instrument ID: M Calibration Date: 09/30/98 Time: 0702

Lab File ID: MPZ002AHV Init. Calib. Date(s): 09/29/98 09/29/98

Heated Purge: (Y/N) N Init. Calib. Times: 1203 1416

GC Column: DB-624 ID: 0.53 (mm)

COMPOUND	RRF	RRF2	MIN RRF	%D	MAX %D
Chlorobenzene	0.961	1.078	0.01	-12.2	30.0
1,1,1,2-Tetrachloroethane	0.524	0.512	0.01	2.3	30.0
Ethylbenzene	1.664	1.669	0.01	-0.3	30.0
m- & p-Xylene	0.640	0.638	0.01	0.3	30.0
o-Xylene	0.618	0.618	0.01	0.0	30.0
Styrene	0.956	0.914	0.01	4.4	30.0
Bromoform	0.474	0.360	0.01	24.0	30.0
Xylene (total)	0.618	0.618	0.01	0.0	30.0
Isopropylbenzene	1.770	1.782	0.01	-0.7	30.0
Bromobenzene	0.481	0.458	0.01	4.8	30.0
1,1,2,2-Tetrachloroethane	0.673	0.644	0.01	4.3	30.0
1,2,3-Trichloropropane	0.170	0.151	0.01	11.2	30.0
2-Chlorotoluene	0.408	0.463	0.01	-13.5	30.0
4-Chlorotoluene	0.419	0.404	0.01	3.6	30.0
n-Propylbenzene	0.421	0.422	0.01	-0.2	30.0
1,3,5-Trimethylbenzene	1.245	1.258	0.01	-1.0	30.0
tert-Butylbenzene	0.340	0.331	0.01	2.6	30.0
1,2,4-Trimethylbenzene	1.207	1.209	0.01	-0.2	30.0
sec-Butylbenzene	1.749	1.747	0.01	0.1	30.0
1,3-Dichlorobenzene	0.771	0.706	0.01	8.4	30.0
p-Isopropyltoluene	1.304	1.329	0.01	-1.9	30.0
1,4-Dichlorobenzene	0.888	0.864	0.01	2.7	30.0
1,2-Dichlorobenzene	0.721	0.680	0.01	5.7	30.0
n-Butylbenzene	1.179	1.207	0.01	-2.4	30.0
1,2-Dibromo-3-Chloropropane	0.140	0.122	0.01	12.8	30.0
1,2,4-Trichlorobenzene	0.448	0.410	0.01	8.5	30.0
Hexachlorobutadiene	0.319	0.282	0.01	11.6	30.0
Naphthalene	0.750	0.670	0.01	10.7	30.0
1,2,3-Trichlorobenzene	0.432	0.375	0.01	13.2	30.0
1,2-Dichloroethane-d4	0.321	0.326	0.01	-1.6	30.0
Bromofluorobenzene	0.792	0.796	0.01	-0.5	30.0
1,2-Dichlorobenzene-d4	0.474	0.468	0.01	1.3	30.0
Toluene-d8	0.938	0.938	0.01	0.0	30.0

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70740

Instrument ID: M Calibration Date: 10/01/98 Time: 0815

Lab File ID: MPZ002BHV Init. Calib. Date(s): 09/29/98 09/29/98

Heated Purge: (Y/N) N Init. Calib. Times: 1203 1416

GC Column: DB-624 ID: 0.53 (mm)

COMPOUND	RRF	RRF2	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	0.566	0.652	0.01	-15.2	30.0
Chloromethane	0.292	0.334	0.01	-14.4	30.0
Vinyl Chloride	0.320	0.359	0.01	-12.2	30.0
Bromomethane	0.239	0.302	0.01	-26.4	30.0
Chloroethane	0.189	0.225	0.01	-19.0	30.0
Trichlorofluoromethane	0.584	0.723	0.01	-23.8	30.0
1,1-Dichloroethene	0.282	0.330	0.01	-17.0	30.0
Acetone	0.049	0.050	0.01	-2.0	30.0
Carbon Disulfide	0.830	0.920	0.01	-10.8	30.0
Methylene Chloride	0.291	0.327	0.01	-12.4	30.0
trans-1,2-Dichloroethene	0.303	0.320	0.01	-5.6	30.0
Methyl-t-Butyl Ether	0.652	0.614	0.01	5.8	30.0
1,1-Dichloroethane	0.617	0.658	0.01	-6.6	30.0
2,2-Dichloropropane	0.526	0.560	0.01	-6.5	30.0
cis-1,2-Dichloroethene	0.344	0.324	0.01	5.8	30.0
2-Butanone	0.022	0.018	0.01	18.2	30.0
Bromochloromethane	0.381	0.393	0.01	-3.1	30.0
Chloroform	0.676	0.682	0.01	-0.9	30.0
1,1,1-Trichloroethane	0.585	0.605	0.01	-3.4	30.0
Carbon Tetrachloride	0.536	0.564	0.01	-5.2	30.0
1,1-Dichloropropene	0.508	0.548	0.01	-7.9	30.0
Benzene	0.972	0.995	0.01	-2.4	30.0
1,2-Dichloroethane	0.359	0.382	0.01	-6.4	30.0
Trichloroethene	0.403	0.443	0.01	-9.9	30.0
1,2-Dichloropropane	0.423	0.443	0.01	-4.7	30.0
Dibromomethane	0.314	0.304	0.01	3.2	30.0
Bromodichloromethane	0.673	0.656	0.01	2.5	30.0
cis-1,3-Dichloropropene	0.631	0.651	0.01	-3.2	30.0
4-Methyl-2-Pentanone	0.121	0.100	0.01	17.4	30.0
Toluene	0.644	0.647	0.01	-0.5	30.0
trans-1,3-Dichloropropene	0.481	0.455	0.01	5.4	30.0
1,1,2-Trichloroethane	0.286	0.271	0.01	5.2	30.0
Tetrachloroethene	0.555	0.475	0.01	14.4	30.0
1,3-Dichloropropane	0.564	0.574	0.01	-1.8	30.0
2-Hexanone	0.167	0.131	0.01	21.6	30.0
Dibromochloromethane	0.686	0.602	0.01	12.2	30.0
1,2-Dibromoethane	0.586	0.565	0.01	3.6	30.0

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70740

Instrument ID: M Calibration Date: 10/01/98 Time: 0815

Lab File ID: MPZ002BHV Init. Calib. Date(s): 09/29/98 09/29/98

Heated Purge: (Y/N) N Init. Calib. Times: 1203 1416

GC Column: DB-624 ID: 0.53 (mm)

COMPOUND	RRF	RRF2	MIN RRF	%D	MAX %D
Chlorobenzene	0.961	1.032	0.01	-7.4	30.0
1,1,1,2-Tetrachloroethane	0.524	0.508	0.01	3.0	30.0
Ethylbenzene	1.664	1.836	0.01	-10.3	30.0
m- & p-Xylene	0.640	0.666	0.01	-4.1	30.0
o-Xylene	0.618	0.627	0.01	-1.4	30.0
Styrene	0.956	0.980	0.01	-2.5	30.0
Bromoform	0.474	0.339	0.01	28.5	30.0
Xylene (total)	0.618	0.627	0.01	-1.4	30.0
Isopropylbenzene	1.770	1.874	0.01	-5.9	30.0
Bromobenzene	0.481	0.439	0.01	8.7	30.0
1,1,2,2-Tetrachloroethane	0.673	0.691	0.01	-2.7	30.0
1,2,3-Trichloropropane	0.170	0.154	0.01	9.4	30.0
2-Chlorotoluene	0.408	0.436	0.01	-6.9	30.0
4-Chlorotoluene	0.419	0.412	0.01	1.7	30.0
n-Propylbenzene	0.421	0.426	0.01	-1.2	30.0
1,3,5-Trimethylbenzene	1.245	1.338	0.01	-7.5	30.0
tert-Butylbenzene	0.340	0.346	0.01	-1.8	30.0
1,2,4-Trimethylbenzene	1.207	1.318	0.01	-9.2	30.0
sec-Butylbenzene	1.749	1.881	0.01	-7.5	30.0
1,3-Dichlorobenzene	0.771	0.741	0.01	3.9	30.0
p-Isopropyltoluene	1.304	1.421	0.01	-9.0	30.0
1,4-Dichlorobenzene	0.888	0.858	0.01	3.4	30.0
1,2-Dichlorobenzene	0.721	0.709	0.01	1.7	30.0
n-Butylbenzene	1.179	1.207	0.01	-2.4	30.0
1,2-Dibromo-3-Chloropropane	0.140	0.134	0.01	4.3	30.0
1,2,4-Trichlorobenzene	0.448	0.398	0.01	11.2	30.0
Hexachlorobutadiene	0.319	0.283	0.01	11.3	30.0
Naphthalene	0.750	0.697	0.01	7.1	30.0
1,2,3-Trichlorobenzene	0.432	0.389	0.01	10.0	30.0
1,2-Dichloroethane-d4	0.321	0.347	0.01	-8.1	30.0
Bromofluorobenzene	0.792	0.881	0.01	-11.2	30.0
1,2-Dichlorobenzene-d4	0.474	0.469	0.01	1.0	30.0
Toluene-d8	0.938	0.999	0.01	-6.5	30.0

FORM 8
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011
 Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70740
 Lab File ID (Standard): LMX002GH2V Date Analyzed: 09/28/98
 Instrument ID: L Time Analyzed: 0819
 GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

	IS1 (DCB)		IS2		IS3 (CBZ)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	101496	19.94	240144	8.55	184190	14.32
UPPER LIMIT	202992	20.44	480288	9.05	368380	14.82
LOWER LIMIT	50748	19.44	120072	8.05	92095	13.82
=====	=====	=====	=====	=====	=====	=====
CLIENT						
SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 LMXGQCSLCS	88092	19.96	211105	8.55	155965	14.30
02 VBLKG2	103097	19.97	251730	8.55	194049	14.32
03 AL810	97623	19.95	246462	8.57	185147	14.32
04 AL200	98658	19.95	244538	8.57	183909	14.33
05 AL201	105844	19.97	254099	8.57	191099	14.33
06 AL202	100873	19.97	255413	8.57	194291	14.33
07 AL203	102233	19.95	248895	8.57	190683	14.33
08 AL204	94679	19.95	246180	8.57	187564	14.33
09 AL205	89520	19.95	243940	8.57	178602	14.32
10 AL206	97428	19.97	252034	8.57	184642	14.32
11 AL209	101357	19.96	259344	8.57	189780	14.32
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

IS1 (DCB) = 1,4-Dichlorobenzene-d4
 IS2 = Fluorobenzene
 IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

FORM 8
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011
 Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70740
 Lab File ID (Standard): MPZ002AHV Date Analyzed: 09/30/98
 Instrument ID: M Time Analyzed: 0702
 GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

	IS1 (DCB) AREA #	RT #	IS2 AREA #	RT #	IS3 (CBZ) AREA #	RT #
12 HOUR STD	133980	20.30	343233	9.04	272684	14.91
UPPER LIMIT	267960	20.80	686466	9.54	545368	15.41
LOWER LIMIT	66990	19.80	171616	8.54	136342	14.41
CLIENT SAMPLE NO.						
01 VBLKH5	112748	20.31	331866	9.04	252334	14.91
02 MPZAQCSLCS	119746	20.30	328319	9.04	263619	14.91
03 AL218	97852	20.32	289766	9.04	219425	14.90
04 AL218MS	107495	20.31	281579	9.04	225722	14.91
05 AL218MSD	103634	20.31	283708	9.06	228479	14.92
06 AL217	85169	20.32	279843	9.06	219367	14.92
07 AL818	91033	20.32	287497	9.05	194332	14.94
08 AL816	95087	20.32	276822	9.04	218967	14.92
09 AL216	89918	20.32	273827	9.04	205589	14.90
10 AL215	88903	20.32	272676	9.05	213699	14.92
11 AL214	85207	20.32	278494	9.05	200865	14.90
12 AL817	79288	20.34	279244	9.04	205235	14.92
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

IS1 (DCB) = 1,4-Dichlorobenzene-d4
 IS2 = Fluorobenzene
 IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

FORM 8
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: SEVERN TRENT LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70740

Lab File ID (Standard): MPZ002BHV Date Analyzed: 10/01/98

Instrument ID: M Time Analyzed: 0815

GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

	IS1 (DCB)		IS2		IS3 (CBZ)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	109918	20.32	281937	9.04	220428	14.91
UPPER LIMIT	219836	20.82	563874	9.54	440856	15.41
LOWER LIMIT	54959	19.82	140968	8.54	110214	14.41
=====	=====	=====	=====	=====	=====	=====
CLIENT SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 VBLKI1	95474	20.34	270690	9.05	222730	14.92
02 MPZBLCS	100258	20.31	275167	9.04	210927	14.91
03 AL216RE	79382	20.34	264955	9.05	195563	14.92
04						
05						
06						
07						
08						
09						
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12						
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15						
16						
17						
18						
19						
20						
21						
22						

IS1 (DCB) = 1,4-Dichlorobenzene-d4
 IS2 = Fluorobenzene
 IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.



Committed To Your Success

Severn Trent Laboratories
55 South Park Drive
Colchester VT 05446
Tel: (802) 655-1203
Fax: (802) 655-1248

Analytical Report

Parsons Engineering Science
Attn: Accounts Payable
30 Dan Road
Canton, MA 02021

Attention : Mike Duchesneau

Date : 10/27/98
ETR Number : 70740
Project No.: 98011
No. Samples: 16
Arrived : 09/22/98
P.O. Number: 73076930004

Page 1

Case:98011 SDG:70740 Job:ASH

Standard analyses were performed in accordance with Methods for Analysis of Water and Wastes, EPA-600/4/79-020, Test Methods for Evaluating Solid Waste, SW-846, or Standard Methods for the Examination of Water and Wastewater. All results are in mg/l unless otherwise noted.

Table with 4 columns: Lab No./Method No., Sample Description/Parameter, and Result. Rows include samples 366795 through 366801 with various parameters like Alkalinity, Chloride, Sulfate, and Nitrate/Nitrite Nitrogen.

< Cont. Next Page >



Severn Trent Laboratories
55 South Park Drive
Colchester VT 05446
Tel: (802) 655-1203
Fax: (802) 655-1248

Analytical Report

Parsons Engineering Science
Attn: Accounts Payable
30 Dan Road
Canton, MA 02021

Date : 10/27/98
ETR Number : 70740
Project No.: 98011
No. Samples: 16
Arrived : 09/22/98
P.O. Number: 73076930004

Attention : Mike Duchesneau

Page 2

Case:98011 SDG:70740 Job:ASH

Standard analyses were performed in accordance with Methods for Analysis of Water and Wastes, EPA-600/4/79-020, Test Methods for Evaluating Solid Waste, SW-846, or Standard Methods for the Examination of Water and Wastewater. All results are in mg/l unless otherwise noted.

Lab No./ Method No.	Sample Description/ Parameter	Result
366801	AL203:09/19/98 @1410(Water)	
300.0	Sulfate	30.1
353.2	Nitrate/Nitrite Nitrogen	<0.01
366802	AL203F:09/19/98 @1410(Filtrate)	
9060	Total Organic Carbon	6.0
366803	AL204:09/19/98 @1510(Water)	
310.1	Alkalinity (as CaCO3)	312
300.0	Chloride	9.7
300.0	Sulfate	28.1
353.2	Nitrate/Nitrite Nitrogen	0.01
366804	AL204F:09/19/98 @1510(Filtrate)	
9060	Total Organic Carbon	5.9
366806	AL206:09/20/98 @1015(Water)	
310.1	Alkalinity (as CaCO3)	356
300.0	Chloride	32.2
300.0	Sulfate	121
353.2	Nitrate/Nitrite Nitrogen	0.71
366807	AL206F:09/20/98 @1015(Filtrate)	
9060	Total Organic Carbon	6.9
366808	AL209:09/20/98 @1345(Water)	
310.1	Alkalinity (as CaCO3)	254
300.0	Chloride	7.9
300.0	Sulfate	55.7
353.2	Nitrate/Nitrite Nitrogen	0.08

< Cont. Next Page >



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Severn Trent Laboratories
55 South Park Drive
Colchester VT 05446
Tel: (802) 655-1203
Fax: (802) 655-1248

Analytical Report

Parsons Engineering Science
Attn: Accounts Payable
30 Dan Road
Canton, MA 02021

Date : 10/27/98
ETR Number : 70740
Project No.: 98011
No. Samples: 16
Arrived : 09/22/98
P.O. Number: 73076930004

Attention : Mike Duchesneau

Page 3

Case:98011 SDG:70740 Job:ASH

Standard analyses were performed in accordance with Methods for Analysis of Water and Wastes, EPA-600/4/79-020, Test Methods for Evaluating Solid Waste, SW-846, or Standard Methods for the Examination of Water and Wastewater. All results are in mg/l unless otherwise noted.

Lab No./ Method No.	Sample Description/ Parameter	Result
366809 AL209F:09/20/98 @1345(Filtrate) 9060	Total Organic Carbon	4.4

< Last Page >

Submitted By : *Kenn B. Watson*

Aquatec Inc.



Severn Trent Laboratories
55 South Park Drive
Colchester VT 05446
Tel: (802) 655-1203
Fax: (802) 655-1243

Analytical Report

Parsons Engineering Science
Attn: Accounts Payable
30 Dan Road
Canton, MA 02021

Attention : Mike Duchesneau

Date : 10/27/98
ETR Number : 70795
Project No.: 98011
No. Samples: 13
Arrived : 09/24/98
P.O. Number: 73076930004

Page 1

Case:98011 SDG:70740 Job:ASH

Standard analyses were performed in accordance with Methods for Analysis of Water and Wastes, EPA-600/4/79-020, Test Methods for Evaluating Solid Waste, SW-846, or Standard Methods for the Examination of Water and Wastewater. All results are in mg/l unless otherwise noted.

Lab No./ Method No.	Sample Description/ Parameter	Result
367127	AL205:09/22/98 @0940(Water)	
310.1	Alkalinity (as CaCO ₃)	306
300.0	Chloride	19.2
300.0	Sulfate	46.1
353.2	Nitrate/Nitrite Nitrogen	0.32
367128	AL218:09/22/98 @1430(Water)	
310.1	Alkalinity (as CaCO ₃)	292
300.0	Chloride	20.2
300.0	Sulfate	53.8
353.2	Nitrate/Nitrite Nitrogen	0.88
367129	AL218F:09/22/98 @1430(Filtrate)	
9060	Total Organic Carbon	1.4
367130	AL217:09/22/98 @1215(Water)	
310.1	Alkalinity (as CaCO ₃)	284
300.0	Chloride	24.9
300.0	Sulfate	118
353.2	Nitrate/Nitrite Nitrogen	0.31
367131	AL217F:09/22/98 @1215(Filtrate)	
9060	Total Organic Carbon	2.1

< Last Page >

Submitted By : *Kim B. Watson*

Aquatec Inc.

WET CHEMISTRY

Quality Control Summary

Project No: 98011
SDG No: 70740
Units: mg/L

Parameter	Date Analyzed	Method Preparation Blank	Laboratory Control Sample		
			Reported Value	True Value	Percent Recovery
Alkalinity (as CaCO ₃)	09/28/98	< 1	124	118	105.1
Chloride by IC	10/01/98	<0.25	4.89	5.00	97.8
Nitrate/Nitrite-Nitrogen	09/25/98	< 0.01	7.22	7.32	98.6
Nitrate/Nitrite-Nitrogen	10/26/98	< 0.01	7.05	7.32	96.3
Sulfate by IC	09/30/98	<0.25	9.76	10.0	97.6
Sulfate by IC	10/01/98	<0.25	9.86	10.0	98.6
Sulfate by IC	10/13/98	<0.25	9.93	10.0	99.3
Total Organic Carbon	09/28/98	< 0.5	62.1	61.9	100.3
Total Organic Carbon	10/01/98	< 0.5	56.8	61.9	91.8

Reviewed By:

Date:

JPD

10/27/98

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COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: SEVERN_TRENT_LABORATORIES Contract: 98011_____

Lab Code: INCHVT Case No.: 98011 SAS No.: _____ SDG No.: 70740_

SOW No.: ILM03.0

EPA Sample No.
_AL204_____

Lab Sample ID
_366803_____

Were ICP interelement corrections applied ? Yes/No YES

Were ICP background corrections applied ? Yes/No YES

If yes - were raw data generated before application of background corrections ? Yes/No NO_

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: _____ Name: _____

Date: _____ Title: _____

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1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

AL204

Lab Name: SEVERN_TRENT_LABORATORIES Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 70740

Matrix (soil/water): WATER Lab Sample ID: 366803

Level (low/med): LOW Date Received: 09/22/98

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	0.80	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	2.2	U		P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	2.7	U		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese	92.8			P
7439-97-6	Mercury				NR
7440-02-0	Nickel	3.6	U		P
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: SEVERN_TRENT_LABORATORIES Contract: 98011_____

Lab Code: INCHVT Case No.: 98011_ SAS No.: _____ SDG No.: 70740_

Initial Calibration Source: VENTURES_____

Continuing Calibration Source: SPEX_____

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum									NR
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium	500.0	501.40	100.3	100.0	100.30	100.3	103.70	103.7	P
Calcium									NR
Chromium	500.0	509.30	101.9	200.0	203.30	101.6	209.50	104.8	P
Cobalt									NR
Copper									NR
Iron									NR
Lead	1000.0	1014.00	101.4	400.0	402.00	100.5	412.60	103.2	P
Magnesium									NR
Manganese	500.0	499.40	99.9	200.0	203.40	101.7	209.20	104.6	P
Mercury									NR
Nickel	500.0	503.00	100.6	200.0	201.10	100.6	206.60	103.3	P
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

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2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: SEVERN_TRENT_LABORATORIES Contract: 98011_____
 Lab Code: INCHVT Case No.: 98011_ SAS No.: _____ SDG No.: 70740_
 Initial Calibration Source: VENTURES_____
 Continuing Calibration Source: SPEX_____

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum									NR
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium				100.0	100.20	100.2			P
Calcium									NR
Chromium				200.0	203.50	101.8			P
Cobalt									NR
Copper									NR
Iron									NR
Lead				400.0	403.30	100.8			P
Magnesium									NR
Manganese				200.0	204.00	102.0			P
Mercury									NR
Nickel				200.0	202.30	101.2			P
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

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2B

CRDL STANDARD FOR AA AND ICP

Lab Name: SEVERN_TRENT_LABORATORIES

Contract: 98011_____

Lab Code: INCHVT

Case No.: 98011_

SAS No.: _____

SDG No.: 70740_

AA CRDL Standard Source: VENTURES_____

ICP CRDL Standard Source: VENTURES_____

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
	True	Found	%R	True	Initial Found	%R	Final Found	%R
Aluminum								
Antimony								
Arsenic								
Barium								
Beryllium								
Cadmium				10.0	10.35	103.5	10.41	104.1
Calcium								
Chromium				20.0	21.18	105.9	20.83	104.2
Cobalt								
Copper								
Iron								
Lead				6.0	8.20	136.7	5.97	99.5
Magnesium								
Manganese				30.0	30.60	102.0	30.97	103.2
Mercury								
Nickel				80.0	80.08	100.1	80.49	100.6
Potassium								
Selenium								
Silver								
Sodium								
Thallium								
Vanadium								
Zinc								

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3
BLANKS

Lab Name: SEVERN_TRENT_LABORATORIES Contract: 98011_____

Lab Code: INCHVT Case No.: 98011_ SAS No.: _____ SDG No.: 70740_

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L_

Analyte	Initial Calib. Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		M
	C		1	C	2	C	3	C	C		
Aluminum											NR
Antimony											NR
Arsenic											NR
Barium											NR
Beryllium											NR
Cadmium	0.8	U	0.8	U	0.8	U	0.8	U	0.800	U	P
Calcium											NR
Chromium	2.2	U	2.2	U	2.2	U	2.2	U	2.200	U	P
Cobalt											NR
Copper											NR
Iron											NR
Lead	2.7	U	2.7	U	2.7	U	2.7	U	2.700	U	P
Magnesium											NR
Manganese	1.9	U	1.9	U	1.9	U	1.9	U	1.900	U	P
Mercury											NR
Nickel	3.6	U	3.6	U	3.6	U	3.6	U	3.600	U	P
Potassium											NR
Selenium											NR
Silver											NR
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc											NR
Cyanide											NR

U.S. EPA - CLP

4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: SEVERN_TRENT_LABORATORIES Contract: 98011_____
 Lab Code: INCHVT Case No.: 98011_ SAS No: _____ SDG No.: 70740_
 ICP ID Number: ICP5 TJA 61E ICS Source: VENTURES_____

Concentration Units: ug/L

Analyte	True		Initial Found			Final Found		
	Sol. A	Sol. AB	Sol. A	Sol. AB	%R	Sol. A	Sol. AB	%R
Aluminum								
Antimony								
Arsenic								
Barium								
Beryllium								
Cadmium	0	934	2	971.1	104.0	1	966.4	103.5
Calcium								
Chromium	0	489	3	510.8	104.5	3	507.1	103.7
Cobalt								
Copper								
Iron								
Lead	0	48	-4	45.1	94.0	-5	47.3	98.5
Magnesium								
Manganese	0	492	9	510.3	103.7	11	509.4	103.5
Mercury								
Nickel	0	903	1	936.6	103.7	1	937.1	103.8
Potassium								
Selenium								
Silver								
Sodium								
Thallium								
Vanadium								
Zinc								

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3
BLANKS

Lab Name: SEVERN_TRENT_LABORATORIES Contract: 98011_____

Lab Code: INCHVT Case No.: 98011_ SAS No.: _____ SDG No.: 70740_

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L_

Analyte	Initial Calib. Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		M
	C		1	C	2	C	3	C	C		
Aluminum											NR
Antimony											NR
Arsenic											NR
Barium											NR
Beryllium											NR
Cadmium	0.8	U	0.8	U	0.8	U	0.8	U	0.800	U	P
Calcium											NR
Chromium	2.2	U	2.2	U	2.2	U	2.2	U	2.200	U	P
Cobalt											NR
Copper											NR
Iron											NR
Lead	2.7	U	2.7	U	2.7	U	2.7	U	2.700	U	P
Magnesium											NR
Manganese	1.9	U	1.9	U	1.9	U	1.9	U	1.900	U	P
Mercury											NR
Nickel	3.6	U	3.6	U	3.6	U	3.6	U	3.600	U	P
Potassium											NR
Selenium											NR
Silver											NR
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc											NR
Cyanide											NR

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4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: SEVERN_TRENT_LABORATORIES Contract: 98011_____
 Lab Code: INCHVT Case No.: 98011_ SAS No: _____ SDG No.: 70740_
 ICP ID Number: ICP5 TJA 61E ICS Source: VENTURES_____

Concentration Units: ug/L

Analyte	True		Initial Found			Final Found		
	Sol. A	Sol. AB	Sol. A	Sol. AB	%R	Sol. A	Sol. AB	%R
Aluminum								
Antimony								
Arsenic								
Barium								
Beryllium								
Cadmium	0	934	2	971.1	104.0	1	966.4	103.5
Calcium								
Chromium	0	489	3	510.8	104.5	3	507.1	103.7
Cobalt								
Copper								
Iron								
Lead	0	48	-4	45.1	94.0	-5	47.3	98.5
Magnesium								
Manganese	0	492	9	510.3	103.7	11	509.4	103.5
Mercury								
Nickel	0	903	1	936.6	103.7	1	937.1	103.8
Potassium								
Selenium								
Silver								
Sodium								
Thallium								
Vanadium								
Zinc								

U.S. EPA - CLP

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LABORATORY CONTROL SAMPLE

Lab Name: SEVERN_TRENT_LABORATORIES

Contract: 98011_____

Lab Code: INCHVT

Case No.: 98011_

SAS No.: _____

SDG No.: 70740_

Solid LCS Source: _____

Aqueous LCS Source: VENTURES_____

Analyte	Aqueous (ug/L)			Solid (mg/kg)				
	True	Found	%R	True	Found	C	Limits	%R
Aluminum								
Antimony								
Arsenic								
Barium								
Beryllium								
Cadmium	525.0	532.50	101.4					
Calcium								
Chromium	500.0	517.10	103.4					
Cobalt								
Copper								
Iron								
Lead	1015.0	1035.00	102.0					
Magnesium								
Manganese	500.0	510.50	102.1					
Mercury								
Nickel	500.0	509.00	101.8					
Potassium								
Selenium								
Silver								
Sodium								
Thallium								
Vanadium								
Zinc								
Cyanide								

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STANDARD ADDITION RESULTS

Lab Name: SEVERN_TRENT_LABORATORIES

Contract:98011_____

Lab Code: INCHVT

Case No.: 98011_

SAS No.:_____

SDG No.:70740_

Concentration Units: ug/L

EPA Sample No.	An	0 ADD	1 ADD		2 ADD		3 ADD		Final Conc.	r	Q
		ABS	CON	ABS	CON	ABS	CON	ABS			

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9
ICP SERIAL DILUTION

EPA SAMPLE NO.

AL204L

Lab Name. SEVERN_TRENT_LABORATORIES Contract: 98011_____

Lab Code: INCHVT Case No.: 98011_ SAS No.: _____ SDG No.: 70740_

Matrix (soil/water): WATER Level (low/med): LOW__

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Differ- ence	Q	M
Aluminum							NR
Antimony							NR
Arsenic							NR
Barium							NR
Beryllium							NR
Cadmium	0.80	U	4.00	U			P
Calcium							NR
Chromium	2.20	U	11.00	U			P
Cobalt							NR
Copper							NR
Iron							NR
Lead	2.70	U	13.50	U			P
Magnesium							NR
Manganese	92.81		97.07		4.6		P
Mercury							NR
Nickel	3.60	U	18.00	U			P
Potassium							NR
Selenium							NR
Silver							NR
Sodium							NR
Thallium							NR
Vanadium							NR
Zinc							NR

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Instrument Detection Limits (Quarterly)

Lab Name: SEVERN_TRENT_LABORATORIES Contract: 98011_____

Lab Code: INCHVT Case No.: 98011_ SAS No.: _____ SDG No.: 70740_

ICP ID Number: ICP5_TJA_61E Date: 10/16/98

Flame AA ID Number : _____

Furnace AA ID Number : _____

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200		NR
Antimony			60		NR
Arsenic			10		NR
Barium			200		NR
Beryllium			5		NR
Cadmium	226.50		5	0.8	P
Calcium			5000		NR
Chromium	267.72		10	2.2	P
Cobalt			50		NR
Copper			25		NR
Iron			100		NR
Lead	220.35		3	2.7	P
Magnesium			5000		NR
Manganese	294.92		15	1.9	P
Mercury			0.2		NR
Nickel	231.60		40	3.6	P
Potassium			5000		NR
Selenium			5		NR
Silver			10		NR
Sodium			5000		NR
Thallium			10		NR
Vanadium			50		NR
Zinc			20		NR

Comments:

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11A

ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: SEVERN_TRENT_LABORATORIES Contract: 98011_____

Lab Code: INCHVT Case No.: 98011_ SAS No.: _____ SDG No.: 70740_

ICP ID Number: ICP5 TJA 61E Date: 01/16/98

Analyte	Wave-length (nm)	Interelement Correction Factors for :				
		Al	Ca	Fe	Mg	CD_
Aluminum	237.31	0.0000000	0.0000000	-0.0007060	0.0000000	0.0000000
Antimony	206.84	0.0000000	0.0000000	0.0000310	0.0000000	0.0000000
Arsenic	189.04	0.0000030	0.0000000	-0.0000190	0.0000000	0.0000000
Barium	493.41	0.0000000	0.0000000	0.0000040	0.0000000	0.0000000
Beryllium	313.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.50	-0.0000020	0.0000000	0.0000720	0.0000000	0.0000000
Calcium	317.93	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	-0.0002050
Cobalt	228.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0002010
Copper	324.75	0.0000000	0.0000000	-0.0001110	0.0000000	0.0000000
Iron	271.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0009400	0.0000000	0.0000580	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	294.92	0.0000000	0.0000000	0.0006600	0.0000170	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.03	-0.0000610	0.0000000	0.0001100	0.0000020	0.0000000
Silver	328.07	0.0000000	0.0000000	-0.0000020	0.0000010	0.0000000
Sodium	330.23	0.0000000	0.0000000	-0.0013900	0.0000000	0.0000000
Thallium	190.86	-0.0000080	0.0000000	-0.0000300	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000230	0.0000000	0.0000000
Zinc	213.85	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP

11B

ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: SEVERN_TRENT_LABORATORIES Contract: 98011_____

Lab Code: INCHVT Case No.: 98011_ SAS No.: _____ SDG No.: 70740_

ICP ID Number: ICP5 TJA 61E Date: 01/16/98

Analyte	Wave-length (nm)	Interelement Correction Factors for :				
		CO_	CR_	MN_	NI_	TI_
Aluminum	237.31	0.0010260	-0.0001500	0.0004560	0.0000000	0.0000000
Antimony	206.84	0.0000000	0.0106760	0.0000000	-0.0010930	0.0009800
Arsenic	189.04	0.0000000	0.0000130	-0.0000260	0.0000000	0.0000000
Barium	493.41	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0006000
Cadmium	226.50	0.0000190	0.0000000	0.0000000	-0.0001420	0.0001100
Calcium	317.93	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000200	0.0000000	0.0000000
Cobalt	228.61	0.0000000	0.0000760	0.0000000	0.0001550	0.0021800
Copper	324.75	-0.0006200	0.0000000	0.0000000	0.0000000	0.0000000
Iron	271.44	0.0834400	0.0000000	-0.0010430	-0.0005400	0.0000000
Lead	220.35	-0.0032100	0.0000200	0.0000000	0.0001830	0.0002200
Magnesium	279.08	0.0000000	0.0000000	-0.0083200	0.0000000	0.0000000
Manganese	294.92	0.0000000	-0.0001100	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0005300	0.0000000	-0.0000770	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.03	0.0003320	0.0000000	0.0003360	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000450	0.0001060	0.0000000	0.0004400
Sodium	330.23	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0031500	0.0003050	-0.0053100	0.0000000	0.0003200
Vanadium	292.40	0.0000000	-0.0014900	-0.0000760	0.0000000	0.0005480
Zinc	213.85	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments :

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11B

ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: SEVERN_TRENT_LABORATORIES Contract: 98011_____

Lab Code: INCHVT Case No.: 98011_ SAS No.: _____ SDG No.: 70740_

ICP ID Number: ICP5 TJA 61E Date: 01/16/98

Analyte	Wave-length (nm)	Interelement Correction Factors for :				
		V__	ZN_	___	___	___
Aluminum	237.31	-0.0041100	0.0000000			
Antimony	206.84	-0.0107300	0.0002410			
Arsenic	189.04	-0.0010590	0.0000000			
Barium	493.41	0.0000420	0.0000000			
Beryllium	313.04	0.0015700	0.0000000			
Cadmium	226.50	0.0000000	0.0000000			
Calcium	317.93	0.0000000	0.0000000			
Chromium	267.72	0.0000000	0.0000000			
Cobalt	228.61	0.0000000	0.0000000			
Copper	324.75	-0.0001320	0.0000000			
Iron	271.44	0.0076000	0.0000000			
Lead	220.35	0.0000000	0.0000000			
Magnesium	279.08	0.0000000	0.0000000			
Manganese	294.92	0.0048700	0.0000000			
Mercury						
Nickel	231.60	-0.0001520	0.0000000			
Potassium	766.49	0.0000000	0.0000000			
Selenium	196.03	0.0001120	0.0000000			
Silver	328.07	0.0004460	0.0000000			
Sodium	330.23	0.0000000	0.0939400			
Thallium	190.86	0.0018800	0.0000000			
Vanadium	292.40	0.0000000	0.0000000			
Zinc	213.85	-0.0054500	0.0000000			

Comments:

U.S. EPA - CLP

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ICP LINEAR RANGES (QUARTERLY)

Lab Name: SEVERN_TRENT_LABORATORIES Contract: 98011_____

Lab Code: INCHVT Case No.: 98011_ SAS No.: _____ SDG No.: 70740_

ICP ID Number: ICP5 TJA 61E Date: 10/16/98

Analyte	Integ. Time (sec.)	Concentration (ug/L)	M
Aluminum	10.00	1000000.0	P
Antimony	10.00	100000.0	P
Arsenic	10.00	5000.0	P
Barium	10.00	20000.0	P
Beryllium	10.00	10000.0	P
Cadmium	10.00	25000.0	P
Calcium	10.00	600000.0	P
Chromium	10.00	100000.0	P
Cobalt	10.00	100000.0	P
Copper	10.00	100000.0	P
Iron	10.00	1000000.0	P
Lead	10.00	100000.0	P
Magnesium	10.00	1000000.0	P
Manganese	10.00	100000.0	P
Mercury			NR
Nickel	10.00	100000.0	P
Potassium	10.00	100000.0	P
Selenium	10.00	5000.0	P
Silver	10.00	2000.0	P
Sodium	10.00	100000.0	P
Thallium	10.00	5000.0	P
Vanadium	10.00	100000.0	P
Zinc	10.00	10000.0	P

Comments:

U.S. EPA - CLP

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ANALYSIS RUN LOG

Lab Name: SEVERN_TRENT_LABORATORIES

Contract: 98011_____

Lab Code: INCHVT Case No.: 98011_

SAS No.: _____ SDG No.:70740_

Instrument ID Number: ICP5 TJA 61E_

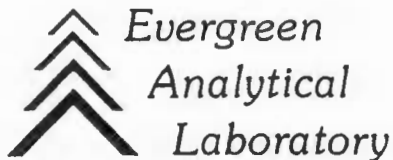
Method: P_

Start Date: 10/20/98

End Date: 10/20/98

EPA Sample No.	D/F	Time	% R	Analytes																				
				A	S	A	B	B	C	C	C	C	F	P	M	M	H	N	K	S	A	N	T	V
L	B	S	A	E	D	A	R	O	U	E	B	G	N	G	I	K	E	G	A	L	L	N	N	N
SO	1.00	1126		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
S	1.00	1130		X				X				X					X			X				
S	1.00	1135			X	X					X						X				X			
S	1.00	1139				X	X	X	X	X			X	X	X		X	X	X			X	X	
ICV	1.00	1145						X	X		X			X	X		X							
ICB	1.00	1149						X	X		X			X	X		X							
ICSA	1.00	1154						X	X		X			X	X		X							
ICSAB	1.00	1159						X	X		X			X	X		X							
CRI	1.00	1203						X	X		X			X	X		X							
CCV	1.00	1208						X	X		X			X	X		X							
CCB	1.00	1213						X	X		X			X	X		X							
PBW	1.00	1218						X	X		X			X	X		X							
LCSW	1.00	1222						X	X		X			X	X		X							
AL204	1.00	1227						X	X		X			X	X		X							
AL204L	5.00	1231						X	X		X			X	X		X							
ZZZZZZ	1.00	1236																						
ZZZZZZ	1.00	1241																						
ZZZZZZ	5.00	1245																						
ZZZZZZ	1.00	1250																						
ZZZZZZ	1.00	1254																						
CCV	1.00	1259						X	X		X			X	X		X							
CCB	1.00	1304						X	X		X			X	X		X							
ICSA	1.00	1309						X	X		X			X	X		X							
ICSAB	1.00	1313						X	X		X			X	X		X							
CRI	1.00	1318						X	X		X			X	X		X							
CCV	1.00	1323						X	X		X			X	X		X							
CCB	1.00	1327						X	X		X			X	X		X							

3. Evergreen Analytical



October 06, 1998

MIKE DUCHESNEAU
PARSONS ENGINEERING SCIENCE
30 DAN ROAD
CANTON, MA 02021-2809

Lab Work Order: 98-4147
Client Project: 730769-01007

Dear Mike Duchesneau:

Enclosed are the analytical results for the samples shown in the Laboratory Work Order Summary. The enclosed data have been reviewed for quality assurance. If you have any questions concerning the reported information, please contact me.

Yes	No	NA*	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The samples received in good condition within EPA holding times.
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Custody seals present. Seal intact: <input type="checkbox"/> Yes <input type="checkbox"/> No
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Samples preserved to acceptable pH levels.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Samples analyzed within holding times per the analytical method.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	A case narrative explaining analytical anomalies is attached.

NA*=not applicable

The temperature of the sample(s) upon arrival was 2 degrees C.

This report contains a total of 35 pages including the cover letter.

SAMPLE DISPOSAL: Except for high level mercury (>260 ppm) samples, EAL will dispose of all samples one month from the date of this letter. If you want samples returned, please advise us by mail or fax as soon as possible.

RECORDS RETENTION: A copy of this project report and supporting data will be retained for a period of five years. If you want the project file sent to you after the five year period, please return a copy of this letter.

The invoice for this work will be mailed to your Accounts Payable department shortly.

Thank you for using the services of Evergreen Analytical.

Sincerely,

A handwritten signature in cursive script that reads "Carl Smits".

Carl Smits
V.P. Operations

WORK ORDER Summary

22-Sep 12:21 pm

Report To: Mike Duchesneau

Client Project ID: 730769-01007

Parsons Engineering Science
30 Dan Road
Canton, MA 02021-2809

Phone: (781) 401-3200
FAX: (781) 401-2575

Comments: QC Provided: MS/MSD, LCS, Lab Duplicate, Method Blank.

QC Level: MS/MSD required on Client samples

Sample ID	Client Sample ID	Analysis	#	Matrix	Loc	Collection	Received	Due	HT
98-4147-01A	AL205	Methane, Ethane, Ethene		Water	2	21-Sep-98	22-Sep-98	06-Oct-98	05-Oct-98
98-4147-02A	AL201	Methane, Ethane, Ethene				19-Sep-98		06-Oct-98	03-Oct-98
98-4147-03A	AL202	Methane, Ethane, Ethene						06-Oct-98	03-Oct-98
98-4147-04A	AL203	Methane, Ethane, Ethene						06-Oct-98	03-Oct-98
98-4147-05A	AL204	Methane, Ethane, Ethene						06-Oct-98	03-Oct-98
98-4147-06A	AL206	Methane, Ethane, Ethene				20-Sep-98		06-Oct-98	04-Oct-98
98-4147-07A	AL207	Methane, Ethane, Ethene						06-Oct-98	04-Oct-98
98-4147-08A	AL208	Methane, Ethane, Ethene						06-Oct-98	04-Oct-98
98-4147-09A	AL200	Methane, Ethane, Ethene				19-Sep-98		06-Oct-98	03-Oct-98
98-4147-10A	AL209	Methane, Ethane, Ethene				20-Sep-98		06-Oct-98	04-Oct-98
98-4147-11A	AL210	Methane, Ethane, Ethene						06-Oct-98	04-Oct-98
98-4147-12A	AL211	Methane, Ethane, Ethene						06-Oct-98	04-Oct-98

= Special list. See sample comments or test information.
HT = Holding Time expiration date.

AKB

JD

CHAIN-OF-CUSTODY RECORD

JOB NO. 730769-01007
PROJECT Serena 3rd Qtr '98
CONTACT Mike Dechesneau

LABORATORY _____
ADDRESS _____
CONTACT _____

WO# 98-4147 BOF# 2748
C/S(O) 26/UPS3 C/S(I) 26/Co
Seals Present Y/N/A; Intact Y/N
Pres N/N/A Hd Sp Y/N/A Loc 2
Temp (C) 2 Container 4 ounce By JD

SAMPLE NO.	LABORATORY SAMPLE NO.	SAMPLING		SAMPLE DEPTH	SAMPLE MATRIX	ANALYSES											M/E	NO. OF CONTAINERS	COMMENTS (Special instructions, cautions, etc.)
		DATE	TIME			VOA	SVOC	METALS	CN										
AL205		9/21/98	0920		water												X	3	-01
AL201		9/19/98	1200														X	3	-02
AL202		9/19/98	1310														X	3	-03
AL203		9/19/98	1410														X	3	-04
AL204		9/19/98	1510														X	3	-05
AL206		9/20/98	1015														X	3	-06
AL207		9/20/98	1120 1225														X	3	-07
AL208		9/20/98	1225														X	3	-08
AL200		9/19/98	1045														X	3	-09
AL209		9/20/98	1345														X	3	-10
AL210		9/20/98	1440														X	3	-11
AL211		9/20/98	1555														X	3	-12

Sampled and Relinquished by
Sign [Signature]
Print Kerry Smith
Firm Parsons ES
Date 9/21/98 Time _____

Received by
Sign [Signature]
Print S Dechant
Firm FEAL
Date 9/22/98 Time 1045

Relinquished by
Sign _____
Print _____
Firm _____
Date _____ Time _____

Received by
Sign _____
Print _____
Firm _____
Date _____ Time _____

VOA Vial																	X
Glass Bottle																	
Plastic Bottle																	
Preservative																	C
Container Volume																	A

PRESERVATION KEY: C - Acidified with HCl F - NaOH + Ascorbic
A - Ice D - Acidified with HNO₃ G - Other
B - Filtered E - Acidified with H₂SO₄

REMARKS: (Sample storage, nonstandard sample bottles)
Balance of samples will arrive by Fri
Quote # 1785
Cooler #:

Methane, Ethane, Ethene Report Form

Client Sample Number	: AL205	Client Project No.	: 730769-01007
Lab Sample Number	: 98-4147-01A	Lab Work Order	: 98-4147
Date Sampled	: 9/21/98	Dilution Factor	: 1.00
Date Received	: 9/22/98	Method	: RSKSOP-175M
Date Extracted/Prepared	: 9/29/98	Matrix	: Water
Date Analyzed	: 9/29/98	Lab File No.	: GAS0927A065

Compound Name	Cas Number	Sample Concentration mg/L	RL mg/L
Methane	74-82-8	0.057	0.0012
Ethane	74-84-0	U	0.0021
Ethene	74-85-1	U	0.0025

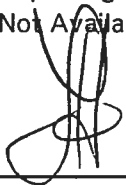
Temperature	: 55.1 F	Saturation	Meth	0.013409058
Amount Injected	: 0.5 ml	Concentration		
Total Volume of Sample	: 43 ml	Concentration	Meth	0.043636758
Head space created	: 4 ml	in Head Space		
Methane Area	: 311.821 ug	Saturation	Etha	0
Ethane Area	: 0 ug	Concentration		
Ethene Area	: 0 ug	Concentration	Etha	0
Atomic weight(Methane)	: 16 g	in Head Space		
Atomic weight(Ethane)	: 30 g	Saturation	Ethe	0
Atomic weight(Ethene)	: 28 g	Concentration		
		Concentration	Ethe	0
		in Head Space		

Qualifiers

E = Extrapolated value.
 U = Compound analyzed for, but not detected.
 B = Compound also found in the blank.
 RL = Reporting Limit.
 NA = Not Available/Not Applicable.

Note

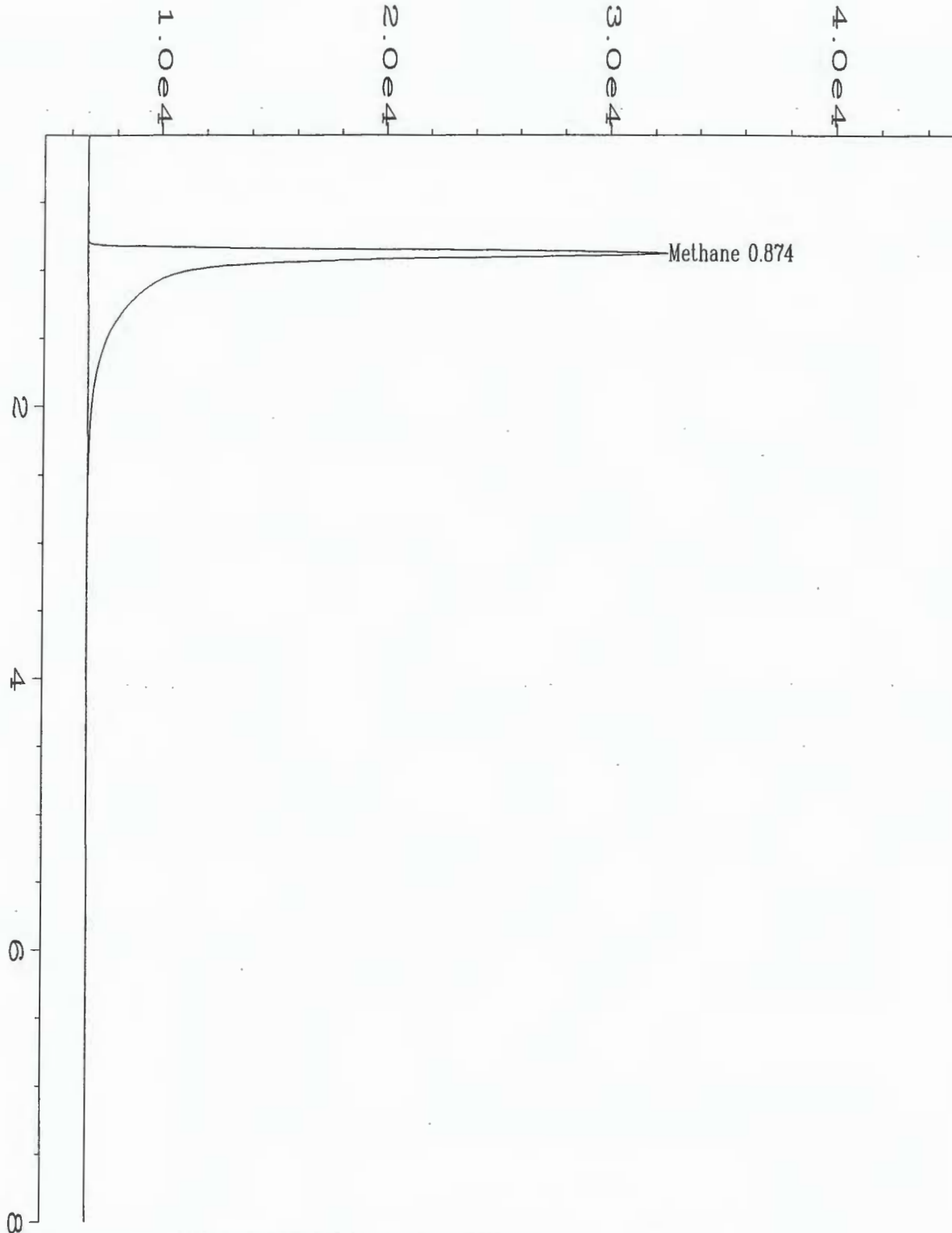
Pressure calculated at sea level.



Analyst



Approved



Data File Name	: C:\HPCHEM\ALGA\DATA\GAS0927A\065R0101.D	Page Number	: 1
Operator	: Leanne Hackney	Vial Number	: 65
Instrument	: ALGA	Injection Number	: 1
Sample Name	: 98-4147-01A	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	GAS.MTH
Acquired on	: 29 Sep 98 08:37 AM	Analysis Method	: GAS0923.MTH
Report Created on:	30 Sep 98 09:39 AM	Sample Amount	: 0
Last Recalib on	: 03 SEP 97 11:40 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: SAMP METHETH		
	AL205		

Methane, Ethane, Ethene Report Form

Client Sample Number	: AL201	Client Project No.	: 730769-01007
Lab Sample Number	: 98-4147-02A	Lab Work Order	: 98-4147
Date Sampled	: 9/19/98	Dilution Factor	: 1.00
Date Received	: 9/22/98	Method	: RSKSOP-175M
Date Extracted/Prepared	: 9/29/98	Matrix	: Water
Date Analyzed	: 9/29/98	Lab File No.	: GAS0927A066

Compound Name	Cas Number	Sample Concentration mg/L	RL mg/L
Methane	74-82-8	0.0015	0.0012
Ethane	74-84-0	U	0.0021
Ethene	74-85-1	U	0.0025

Temperature	: 73.3 F	Saturation	Meth	0.000364145
Amount Injected	: 0.5 ml	Concentration		
Total Volume of Sample	: 43 ml	Concentration	Meth	0.001144539
Head space created	: 4 ml	in Head Space		
Methane Area	: 8.468 ug	Saturation	Etha	0
Ethane Area	: 0 ug	Concentration		
Ethene Area	: 0 ug	Concentration	Etha	0
Atomic weight(Methane)	: 16 g	in Head Space		
Atomic weight(Ethane)	: 30 g	Saturation	Ethe	0
Atomic weight(Ethene)	: 28 g	Concentration		
		Concentration	Ethe	0
		in Head Space		

Qualifiers

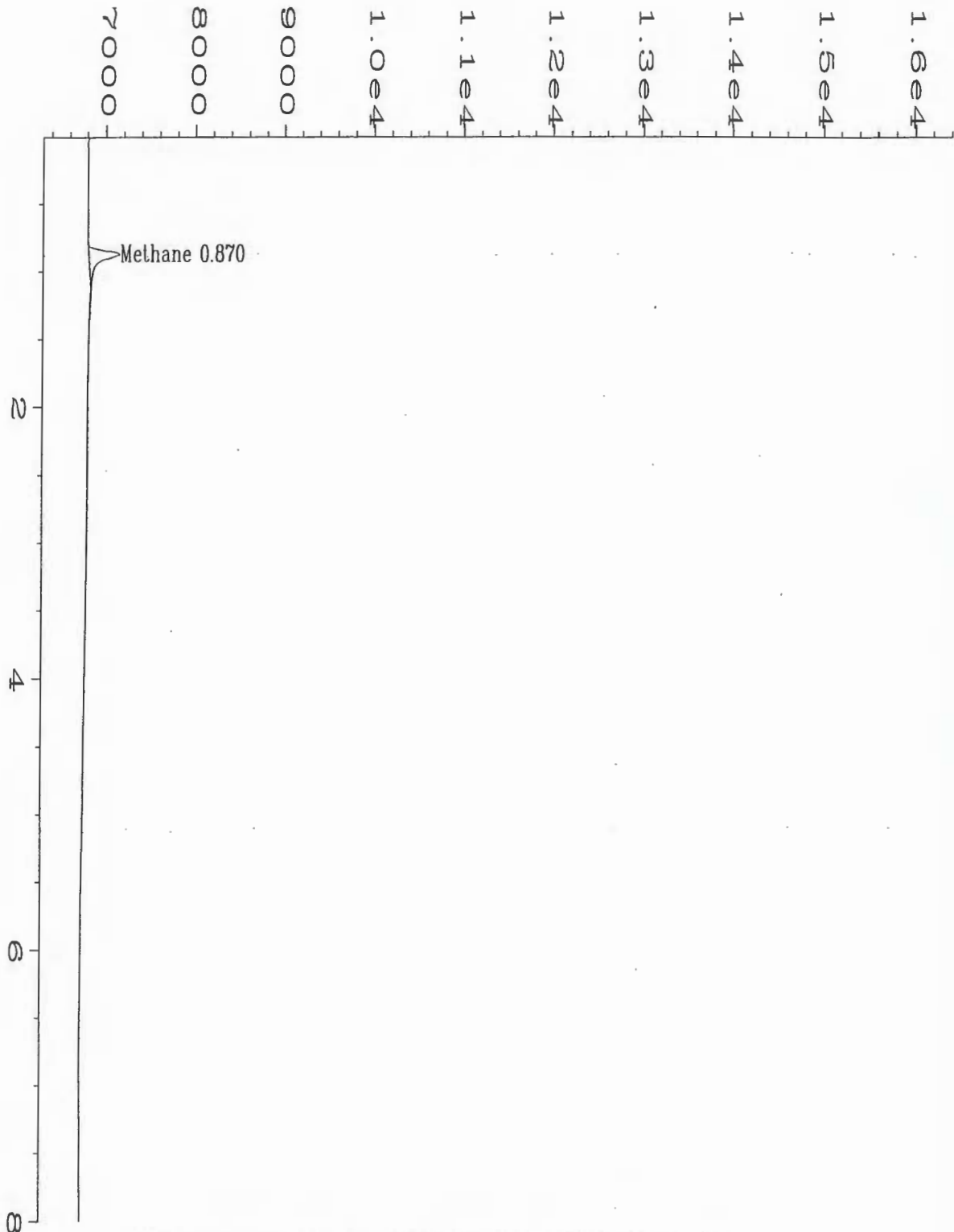
E = Extrapolated value.
 U = Compound analyzed for, but not detected.
 B = Compound also found in the blank.
 RL = Reporting Limit.
 NA = Not Available/Not Applicable.

Note

Pressure calculated at sea level.


 Analyst


 Approved



Data File Name	: C:\HPCHEM\ALGA\DATA\GAS0927A\066R0101.D	Page Number	: 1
Operator	: Leanne Hackney	Vial Number	: 66
Instrument	: ALGA	Injection Number	: 1
Sample Name	: 98-4147-02A	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	GAS.MTH
Acquired on	: 29 Sep 98 08:47 AM	Analysis Method	: GAS0923.MTH
Report Created on:	30 Sep 98 09:39 AM	Sample Amount	: 0
Last Recalib on	: 03 SEP 97 11:40 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: SAMP METHETH		
	: AL201		

Methane, Ethane, Ethene Report Form

Client Sample Number	: AL202	Client Project No.	: 730769-01007
Lab Sample Number	: 98-4147-03A	Lab Work Order	: 98-4147
Date Sampled	: 9/19/98	Dilution Factor	: 1.00
Date Received	: 9/22/98	Method	: RSKSOP-175M
Date Extracted/Prepared	: 9/29/98	Matrix	: Water
Date Analyzed	: 9/29/98	Lab File No.	: GAS0927A067

Compound Name	Cas Number	Sample Concentration mg/L	RL mg/L
Methane	74-82-8	0.15	0.0012
Ethane	74-84-0	U	0.0021
Ethene	74-85-1	U	0.0025

Temperature	: 73.1 F	Saturation	Meth	0.036539458
Amount Injected	: 0.5 ml	Concentration		
Total Volume of Sample	: 43 ml	Concentration	Meth	0.114889961
Head space created	: 4 ml	in Head Space		
Methane Area	: 849.707 ug	Saturation	Etha	0
Ethane Area	: 0 ug	Concentration		
Ethene Area	: 0 ug	Concentration	Etha	0
Atomic weight(Methane)	: 16 g	in Head Space		
Atomic weight(Ethane)	: 30 g	Saturation	Ethe	0
Atomic weight(Ethene)	: 28 g	Concentration		
		Concentration	Ethe	0
		in Head Space		

Qualifiers

E = Extrapolated value.
 U = Compound analyzed for, but not detected.
 B = Compound also found in the blank.
 RL = Reporting Limit.
 NA = Not Available/Not Applicable.

Note

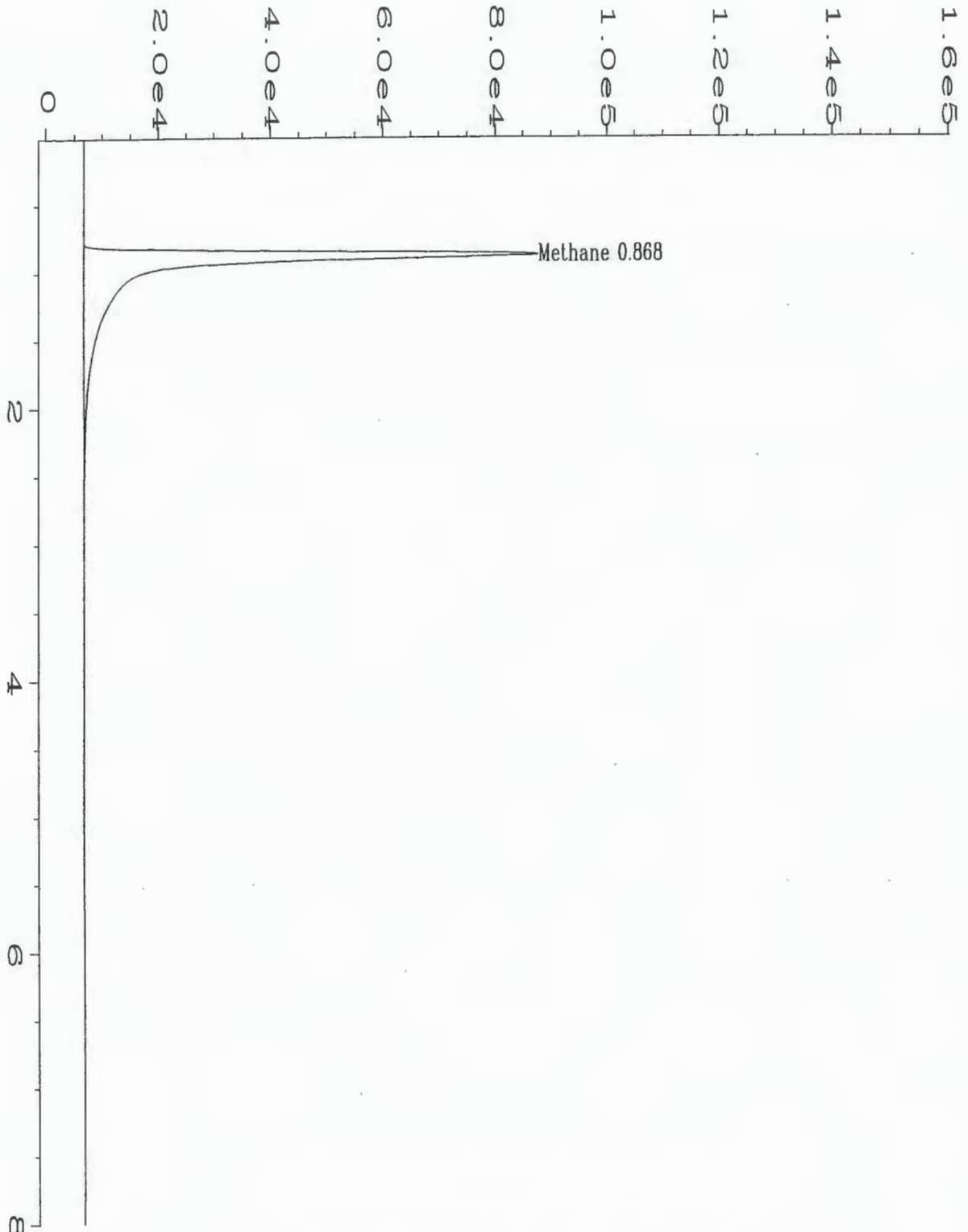
Pressure calculated at sea level.



Analyst



Approved



Data File Name	: C:\HPCHEM\ALGA\DATA\GAS0927A\067R0101.D	Page Number	: 1
Operator	: Leanne Hackney	Vial Number	: 67
Instrument	: ALGA	Injection Number	: 1
Sample Name	: 98-4147-03A	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	GAS.MTH
Acquired on	: 29 Sep 98 08:57 AM	Analysis Method	: GAS0923.MTH
Report Created on:	30 Sep 98 09:39 AM	Sample Amount	: 0
Last Recalib on	: 03 SEP 97 11:40 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: SAMP METHETH		
	: AL202		

Methane, Ethane, Ethene Report Form

Client Sample Number	: AL203	Client Project No.	: 730769-01007
Lab Sample Number	: 98-4147-04A	Lab Work Order	: 98-4147
Date Sampled	: 9/19/98	Dilution Factor	: 1.00
Date Received	: 9/22/98	Method	: RSKSOP-175M
Date Extracted/Prepared	: 9/29/98	Matrix	: Water
Date Analyzed	: 9/29/98	Lab File No.	: GAS0927A068

Compound Name	Cas Number	Sample Concentration mg/L	RL mg/L
Methane	74-82-8	U	0.0012
Ethane	74-84-0	U	0.0021
Ethene	74-85-1	U	0.0025


Temperature	: 73.2 F	Saturation	Meth	0
Amount Injected	: 0.5 ml	Concentration		
Total Volume of Sample	: 43 ml	Concentration	Meth	0
Head space created	: 4 ml	in Head Space		
Methane Area	: 0 ug	Saturation	Etha	0
Ethane Area	: 0 ug	Concentration		
Ethene Area	: 0 ug	Concentration	Etha	0
Atomic weight(Methane)	: 16 g	in Head Space		
Atomic weight(Ethane)	: 30 g	Saturation	Ethe	0
Atomic weight(Ethene)	: 28 g	Concentration		
		Concentration	Ethe	0
		in Head Space		

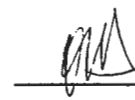
Qualifiers

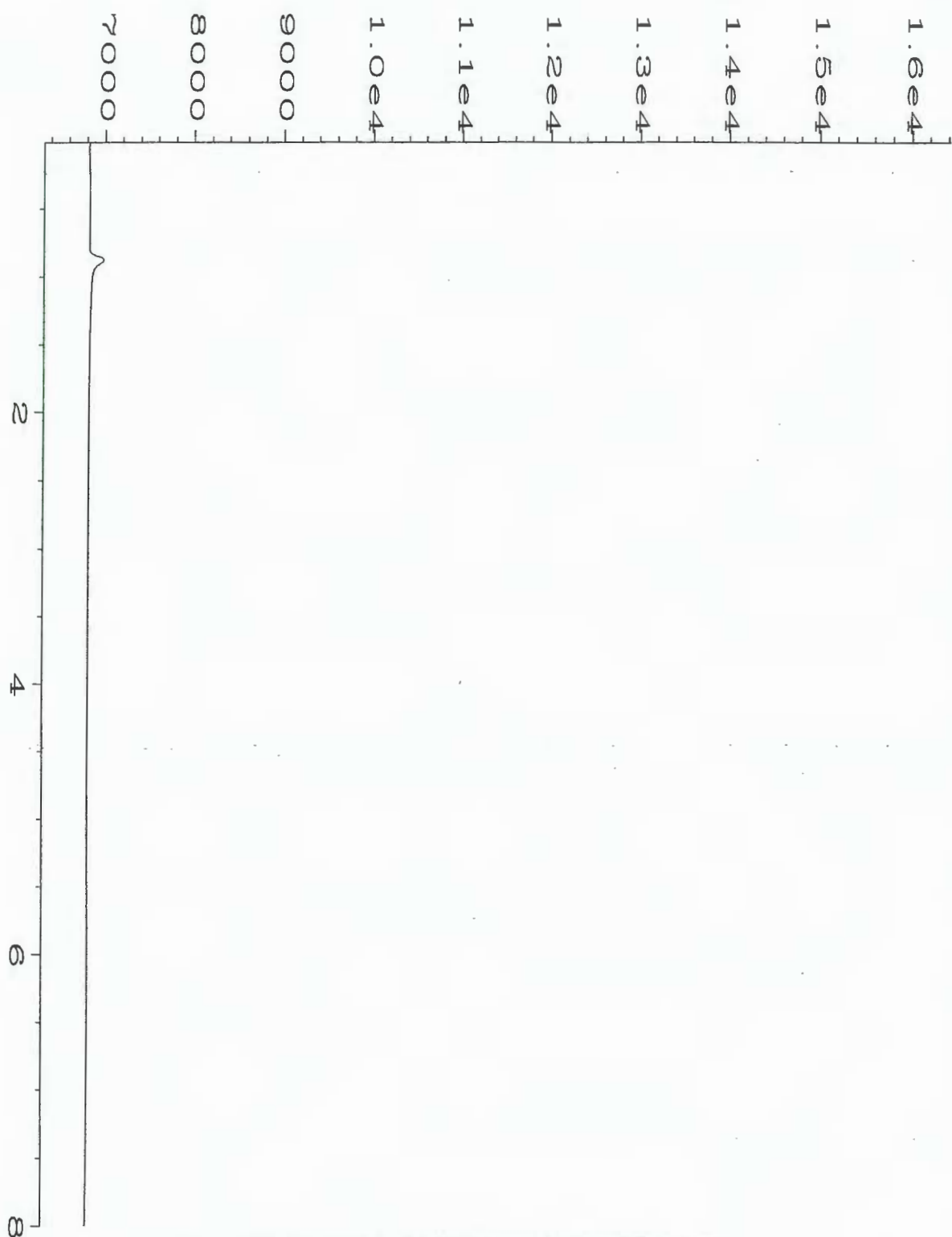
E = Extrapolated value.
 U = Compound analyzed for, but not detected.
 B = Compound also found in the blank.
 RL = Reporting Limit.
 NA = Not Available/Not Applicable.

Note

Pressure calculated at sea level.


 Analyst


 Approved



Data File Name	: C:\HPCHEM\ALGA\DATA\GAS0927A\068R0101.D	Page Number	: 1
Operator	: Leanne Hackney	Vial Number	: 68
Instrument	: ALGA	Injection Number	: 1
Sample Name	: 98-4147-04A	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	GAS.MTH
Acquired on	: 29 Sep 98 09:14 AM	Analysis Method	: GAS0923.MTH
Report Created on:	30 Sep 98 09:39 AM	Sample Amount	: 0
Last Recalib on	: 03 SEP 97 11:40 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: SAMP METHETH		
	: AL203		

Methane, Ethane, Ethene Report Form

Client Sample Number	: AL204	Client Project No.	: 730769-01007
Lab Sample Number	: 98-4147-05A	Lab Work Order	: 98-4147
Date Sampled	: 9/19/98	Dilution Factor	: 1.00
Date Received	: 9/22/98	Method	: RKSOP-175M
Date Extracted/Prepared	: 9/29/98	Matrix	: Water
Date Analyzed	: 9/29/98	Lab File No.	: GAS0927A069

Compound Name	Cas Number	Sample Concentration mg/L	RL mg/L
Methane	74-82-8	U	0.0012
Ethane	74-84-0	U	0.0021
Ethene	74-85-1	U	0.0025

Temperature	: 73.4 F	Saturation	Meth	0
Amount Injected	: 0.5 ml	Concentration		
Total Volume of Sample	: 43 ml	Concentration	Meth	0
Head space created	: 4 ml	in Head Space		
Methane Area	: 0 ug	Saturation	Etha	0
Ethane Area	: 0 ug	Concentration		
Ethene Area	: 0 ug	Concentration	Etha	0
Atomic weight(Methane)	: 16 g	in Head Space		
Atomic weight(Ethane)	: 30 g	Saturation	Ethe	0
Atomic weight(Ethene)	: 28 g	Concentration		
		Concentration	Ethe	0
		in Head Space		


Qualifiers

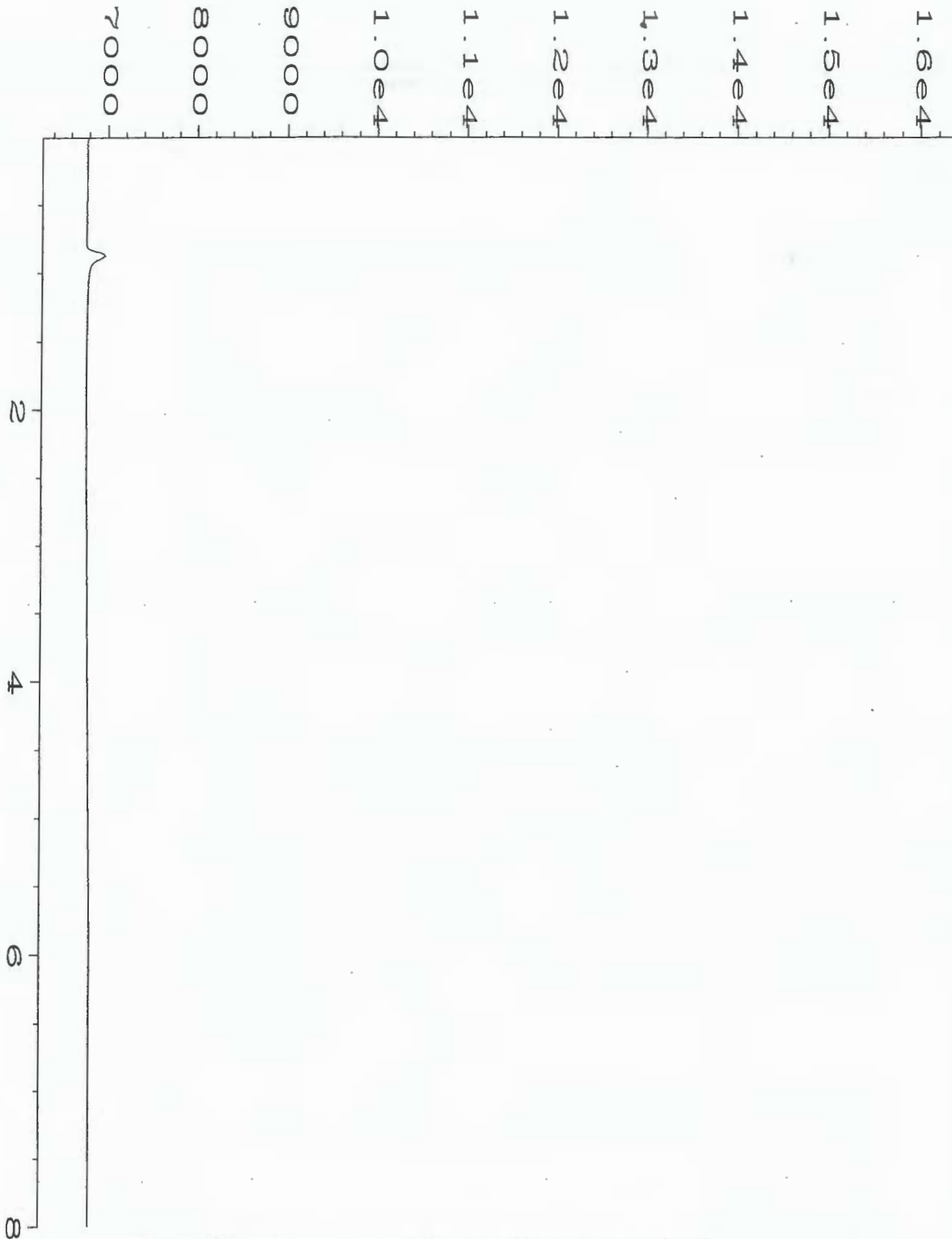
E = Extrapolated value.
 U = Compound analyzed for, but not detected.
 B = Compound also found in the blank.
 RL = Reporting Limit.
 NA = Not Available/Not Applicable.

Note

Pressure calculated at sea level.


 Analyst


 Approved



Data File Name	: C:\HPCHEM\ALGA\DATA\GAS0927A\069R0101.D	Page Number	: 1
Operator	: Leanne Hackney	Vial Number	: 69
Instrument	: ALGA	Injection Number	: 1
Sample Name	: 98-4147-05A	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	GAS.MTH
Acquired on	: 29 Sep 98 09:24 AM	Analysis Method	: GAS0923.MTH
Report Created on:	30 Sep 98 09:39 AM	Sample Amount	: 0
Last Recalib on	: 03 SEP 97 11:40 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: SAMP METHETH		
	: AL204		

Methane, Ethane, Ethene Report Form

Client Sample Number	: AL206	Client Project No.	: 730769-01007
Lab Sample Number	: 98-4147-06A	Lab Work Order	: 98-4147
Date Sampled	: 9/20/98	Dilution Factor	: 1.00
Date Received	: 9/22/98	Method	: RKSOP-175M
Date Extracted/Prepared	: 9/29/98	Matrix	: Water
Date Analyzed	: 9/29/98	Lab File No.	: GAS0927A070

Compound Name	Cas Number	Sample Concentration mg/L	RL mg/L
Methane	74-82-8	0.0021	0.0012
Ethane	74-84-0	U	0.0021
Ethene	74-85-1	U	0.0025

Temperature	: 73.7 F	Saturation	Meth	0.000503472
Amount Injected	: 0.5 ml	Concentration		
Total Volume of Sample	: 43 ml	Concentration	Meth	0.001581272
Head space created	: 4 ml	in Head Space		
Methane Area	: 11.708 ug	Saturation	Etha	0
Ethane Area	: 0 ug	Concentration		
Ethene Area	: 0 ug	Concentration	Etha	0
Atomic weight(Methane)	: 16 g	in Head Space		
Atomic weight(Ethane)	: 30 g	Saturation	Ethe	0
Atomic weight(Ethene)	: 28 g	Concentration		
		Concentration	Ethe	0
		in Head Space		

Qualifiers

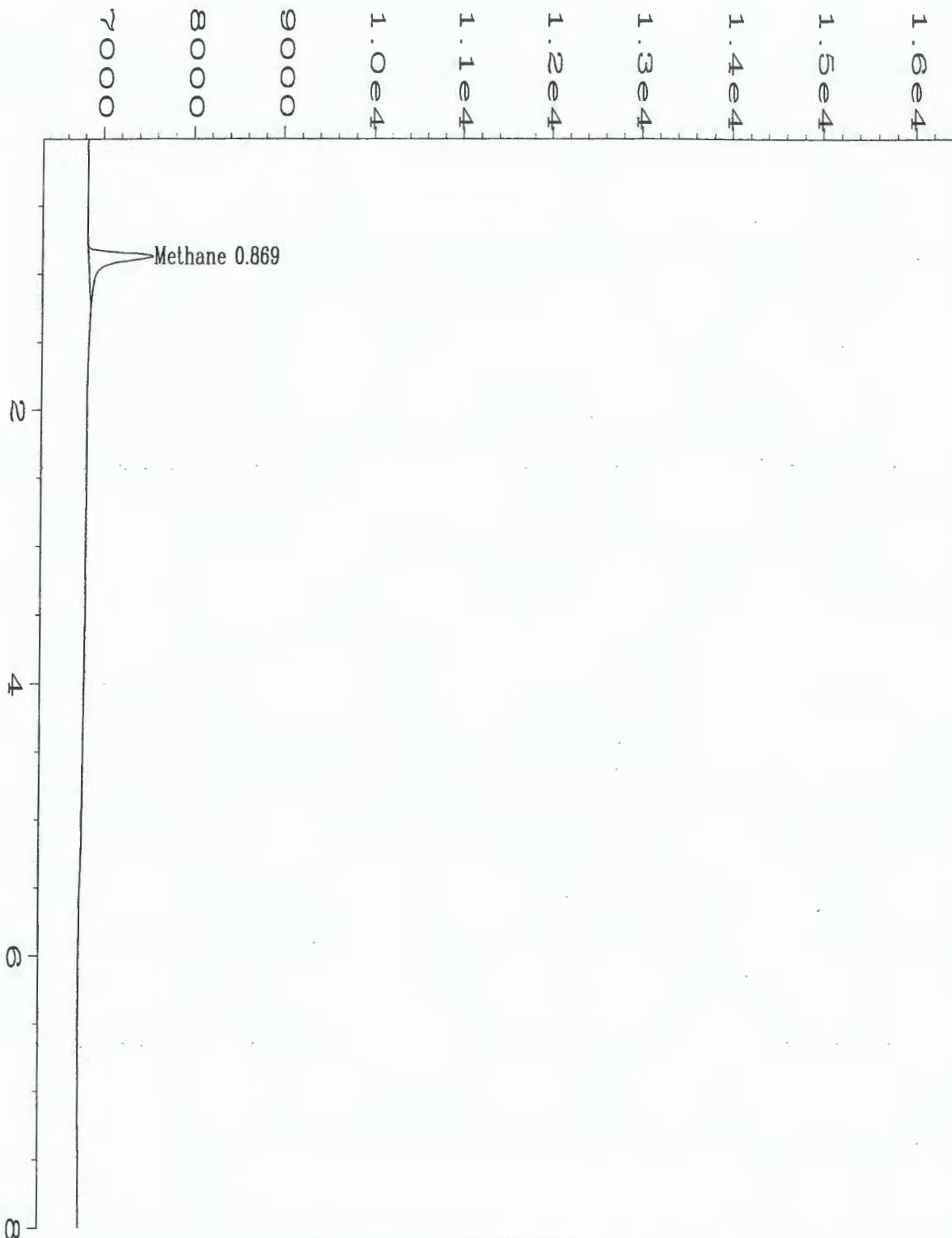
E = Extrapolated value.
 U = Compound analyzed for, but not detected.
 B = Compound also found in the blank.
 RL = Reporting Limit.
 NA = Not Available/Not Applicable.

Note

Pressure calculated at sea level.


 Analyst


 Approved



Data File Name	: C:\HPCHEM\ALGA\DATA\GAS0927A\070R0101.D	Page Number	: 1
Operator	: Leanne Hackney	Vial Number	: 70
Instrument	: ALGA	Injection Number	: 1
Sample Name	: 98-4147-06A	Sequence Line	: 1
Run Time Bar Code:		Instrument Method	: GAS.MTH
Acquired on	: 29 Sep 98 09:33 AM	Analysis Method	: GAS0923.MTH
Report Created on:	30 Sep 98 09:39 AM	Sample Amount	: 0
Last Recalib on	: 03 SEP 97 11:40 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: SAMP METHETH		
	: AL206		

Methane, Ethane, Ethene Report Form

Client Sample Number	: AL207	Client Project No.	: 730769-01007
Lab Sample Number	: 98-4147-07A	Lab Work Order	: 98-4147
Date Sampled	: 9/20/98	Dilution Factor	: 1.00
Date Received	: 9/22/98	Method	: RSKSOP-175M
Date Extracted/Prepared	: 9/29/98	Matrix	: Water
Date Analyzed	: 9/29/98	Lab File No.	: GAS0927A071

Compound Name	Cas Number	Sample Concentration mg/L	RL mg/L
Methane	74-82-8	0.0089	0.0012
Ethane	74-84-0	U	0.0021
Ethene	74-85-1	U	0.0025

Temperature	: 73.1 F	Saturation	Meth	0.002151669
Amount Injected	: 0.5 ml	Concentration		
Total Volume of Sample	: 43 ml	Concentration	Meth	0.006765431
Head space created	: 4 ml	in Head Space		
Methane Area	: 50.036 ug	Saturation	Etha	0
Ethane Area	: 0 ug	Concentration		
Ethene Area	: 0 ug	Concentration	Etha	0
Atomic weight(Methane)	: 16 g	in Head Space		
Atomic weight(Ethane)	: 30 g	Saturation	Ethe	0
Atomic weight(Ethene)	: 28 g	Concentration		
		Concentration	Ethe	0
		in Head Space		

Qualifiers

E = Extrapolated value.
 U = Compound analyzed for, but not detected.
 B = Compound also found in the blank.
 RL = Reporting Limit.
 NA = Not Available/Not Applicable.

Note

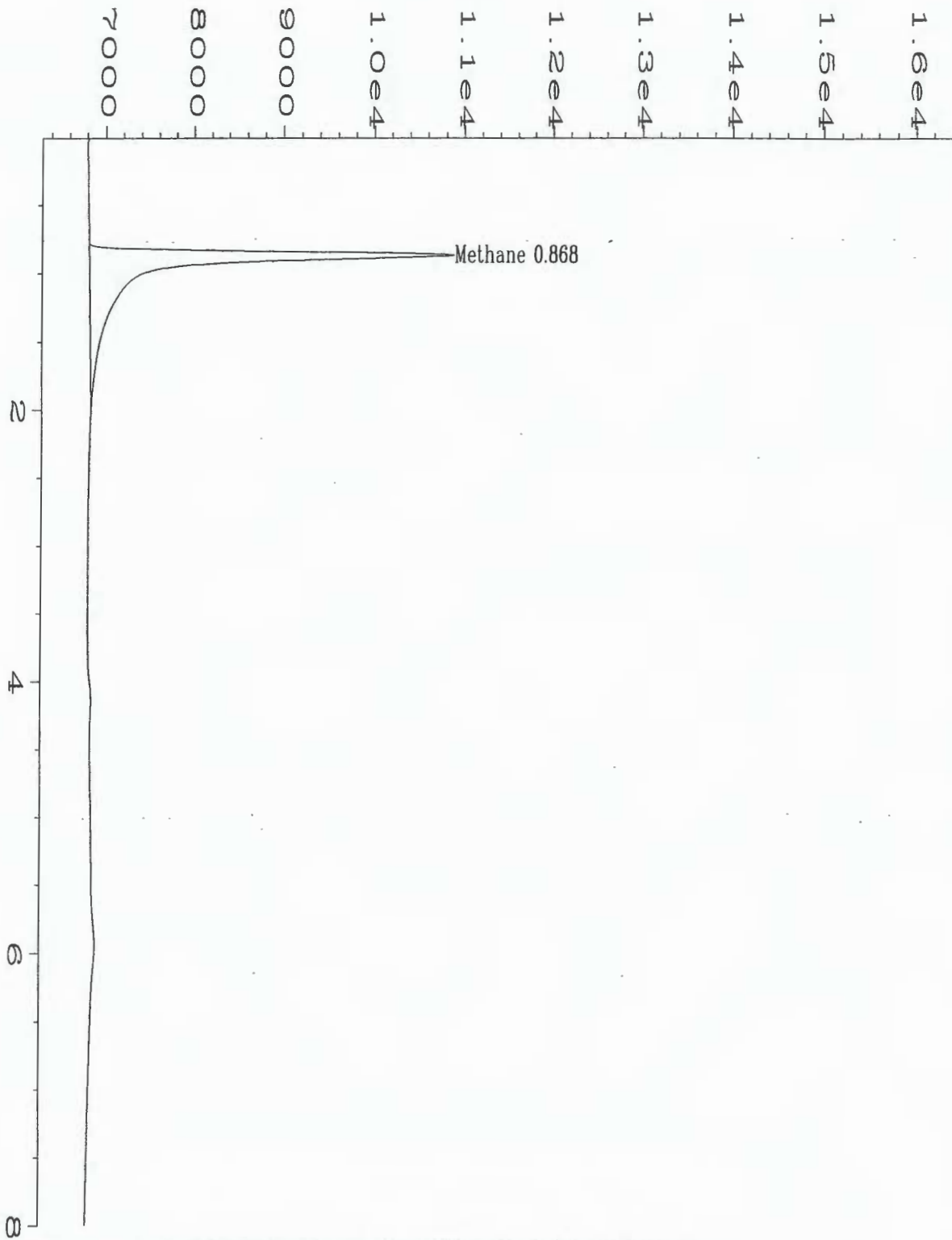
Pressure calculated at sea level.



Analyst



Approved



Data File Name	: C:\HPCHEM\ALGA\DATA\GAS0927A\071R0101.D	Page Number	: 1
Operator	: Leanne Hackney	Vial Number	: 71
Instrument	: ALGA	Injection Number	: 1
Sample Name	: 98-4147-07A	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	GAS.MTH
Acquired on	: 29 Sep 98 09:59 AM	Analysis Method	: GAS0923.MTH
Report Created on:	30 Sep 98 09:40 AM	Sample Amount	: 0
Last Recalib on	: 03 SEP 97 11:40 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: SAMP METHETH		
	: AL207		

Methane, Ethane, Ethene Report Form

Client Sample Number	: AL208	Client Project No.	: 730769-01007
Lab Sample Number	: 98-4147-08A	Lab Work Order	: 98-4147
Date Sampled	: 9/20/98	Dilution Factor	: 1.00
Date Received	: 9/22/98	Method	: RSKSOP-175M
Date Extracted/Prepared	: 9/29/98	Matrix	: Water
Date Analyzed	: 9/29/98	Lab File No.	: GAS0927A072

Compound Name	Cas Number	Sample Concentration mg/L	RL mg/L
Methane	74-82-8	0.0030	0.0012
Ethane	74-84-0	U	0.0021
Ethene	74-85-1	U	0.0025

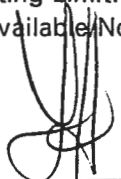
Temperature	: 72.7 F	Saturation	Meth	0.00072386
Amount Injected	: 0.5 ml	Concentration		
Total Volume of Sample	: 43 ml	Concentration	Meth	0.002277722
Head space created	: 4 ml	in Head Space		
Methane Area	: 16.833 ug	Saturation	Etha	0
Ethane Area	: 0 ug	Concentration		
Ethene Area	: 0 ug	Concentration	Etha	0
Atomic weight(Methane)	: 16 g	in Head Space		
Atomic weight(Ethane)	: 30 g	Saturation	Ethe	0
Atomic weight(Ethene)	: 28 g	Concentration		
		Concentration	Ethe	0
		in Head Space		

Qualifiers

E = Extrapolated value.
 U = Compound analyzed for, but not detected.
 B = Compound also found in the blank.
 RL = Reporting Limit.
 NA = Not Available/Not Applicable.

Note

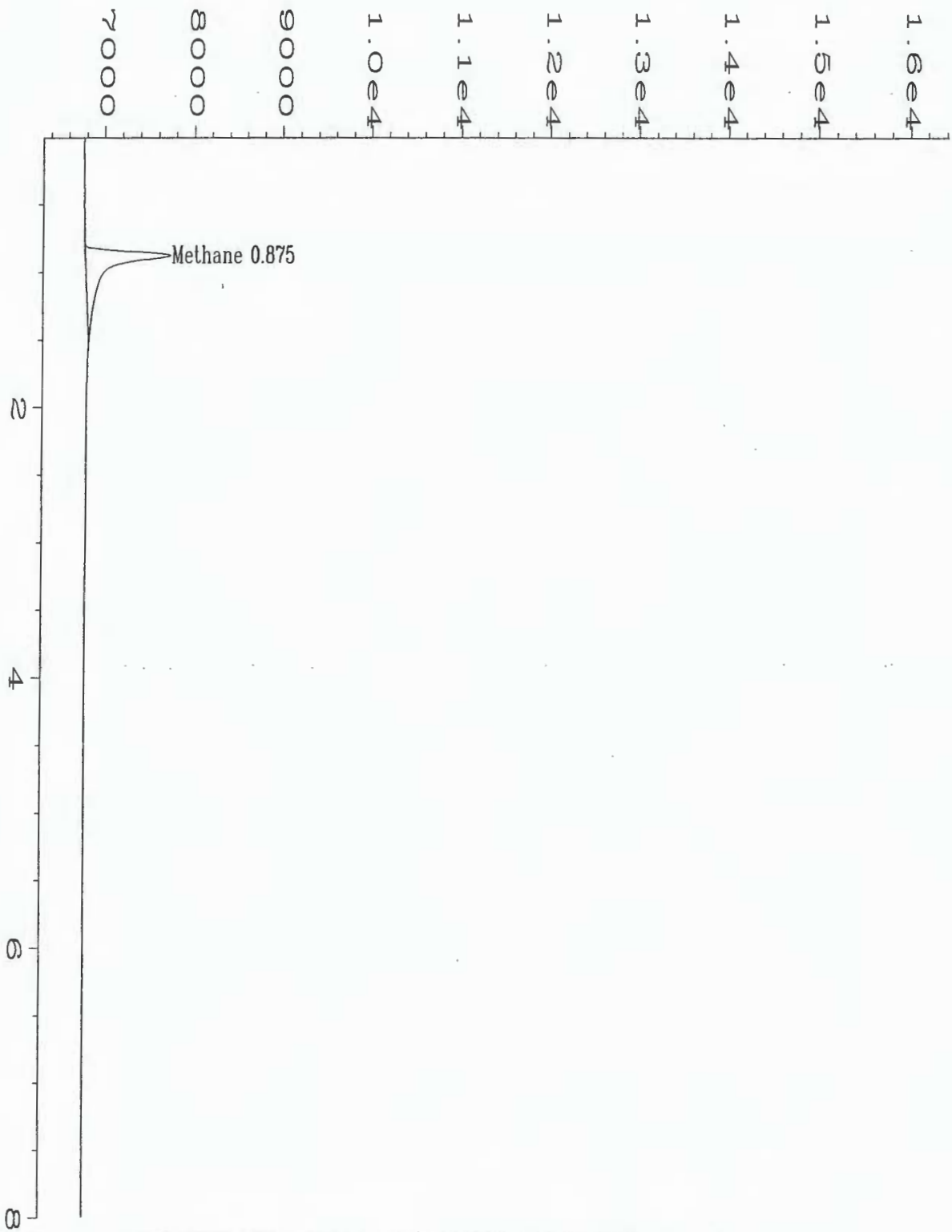
Pressure calculated at sea level.



Analyst



Approved



Data File Name	: C:\HPCHEM\ALGA\DATA\GAS0927A\072R0101.D	Page Number	: 1
Operator	: Leanne Hackney	Vial Number	: 72
Instrument	: ALGA	Injection Number	: 1
Sample Name	: 98-4147-08A	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	GAS.MTH
Acquired on	: 29 Sep 98 11:01 AM	Analysis Method	: GAS0923.MTH
Report Created on:	30 Sep 98 09:40 AM	Sample Amount	: 0
Last Recalib on	: 03 SEP 97 11:40 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: SAMP METHETH		
	AL208		

Methane, Ethane, Ethene Report Form

Client Sample Number	: AL200	Client Project No.	: 730769-01007
Lab Sample Number	: 98-4147-09A	Lab Work Order	: 98-4147
Date Sampled	: 9/19/98	Dilution Factor	: 1.00
Date Received	: 9/22/98	Method	: RSKSOP-175M
Date Extracted/Prepared	: 9/29/98	Matrix	: Water
Date Analyzed	: 9/29/98	Lab File No.	: GAS0927A073

Compound Name	Cas Number	Sample Concentration mg/L	RL mg/L
Methane	74-82-8	0.010	0.0012
Ethane	74-84-0	U	0.0021
Ethene	74-85-1	U	0.0025

Temperature	: 72.3 F	Saturation	Meth	0.002399105
Amount Injected	: 0.5 ml	Concentration		
Total Volume of Sample	: 43 ml	Concentration	Meth	0.007554787
Head space created	: 4 ml	in Head Space		
Methane Area	: 55.790 ug	Saturation	Etha	0
Ethane Area	: 0.0 ug	Concentration		
Ethene Area	: 0 ug	Concentration	Etha	0
Atomic weight(Methane)	: 16 g	in Head Space		
Atomic weight(Ethane)	: 30 g	Saturation	Ethe	0
Atomic weight(Ethene)	: 28 g	Concentration		
		Concentration	Ethe	0
		in Head Space		

Qualifiers

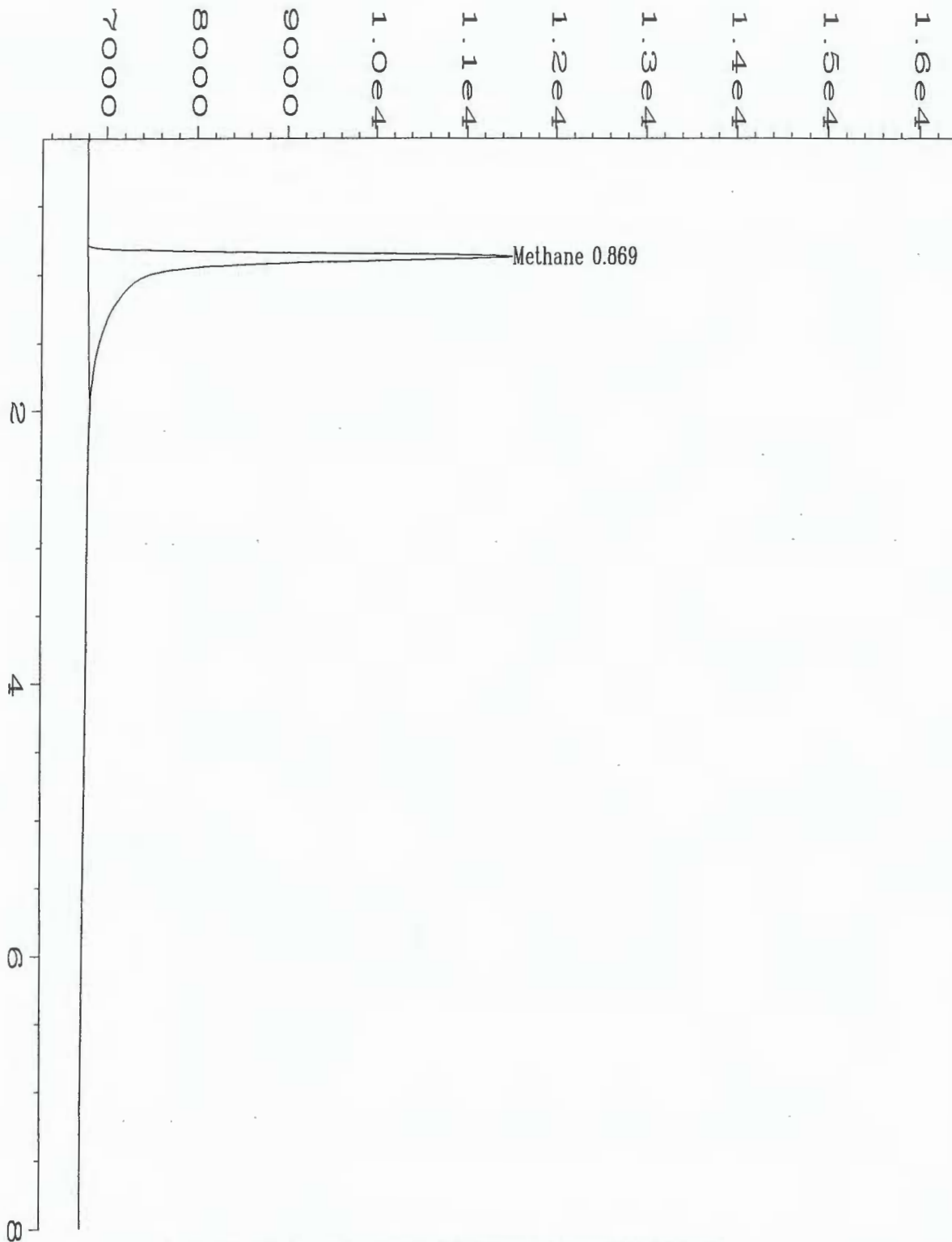
E = Extrapolated value.
 U = Compound analyzed for, but not detected.
 B = Compound also found in the blank.
 RL = Reporting Limit.
 NA = Not Available/Not Applicable.

Note

Pressure calculated at sea level.


 Analyst


 Approved



Data File Name	: C:\HPCHEM\ALGA\DATA\GAS0927A\073R0101.D	Page Number	: 1
Operator	: Leanne Hackney	Vial Number	: 73
Instrument	: ALGA	Injection Number	: 1
Sample Name	: 98-4147-09A	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	GAS.MTH
Acquired on	: 29 Sep 98 11:22 AM	Analysis Method	: GAS0923.MTH
Report Created on:	30 Sep 98 09:40 AM	Sample Amount	: 0
Last Recalib on	: 03 SEP 97 11:40 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: SAMP METHETH		
	: AL200		

Methane, Ethane, Ethene Report Form

Client Sample Number	: AL209	Client Project No.	: 730769-01007
Lab Sample Number	: 98-4147-10A	Lab Work Order	: 98-4147
Date Sampled	: 9/20/98	Dilution Factor	: 1.00
Date Received	: 9/22/98	Method	: RSKSOP-175M
Date Extracted/Prepared	: 9/29/98	Matrix	: Water
Date Analyzed	: 9/29/98	Lab File No.	: GAS0927A074

Compound Name	Cas Number	Sample Concentration mg/L	RL mg/L
Methane	74-82-8	U	0.0012
Ethane	74-84-0	U	0.0021
Ethene	74-85-1	U	0.0025

Temperature	: 71 F	Saturation	Meth	0
Amount Injected	: 0.5 ml	Concentration		
Total Volume of Sample	: 43 ml	Concentration	Meth	0
Head space created	: 4 ml	in Head Space		
Methane Area	: 0 ug	Saturation	Etha	0
Ethane Area	: 0 ug	Concentration		
Ethene Area	: 0 ug	Concentration	Etha	0
Atomic weight(Methane)	: 16 g	in Head Space		
Atomic weight(Ethane)	: 30 g	Saturation	Ethe	0
Atomic weight(Ethene)	: 28 g	Concentration		
		Concentration	Ethe	0
		in Head Space		

Qualifiers

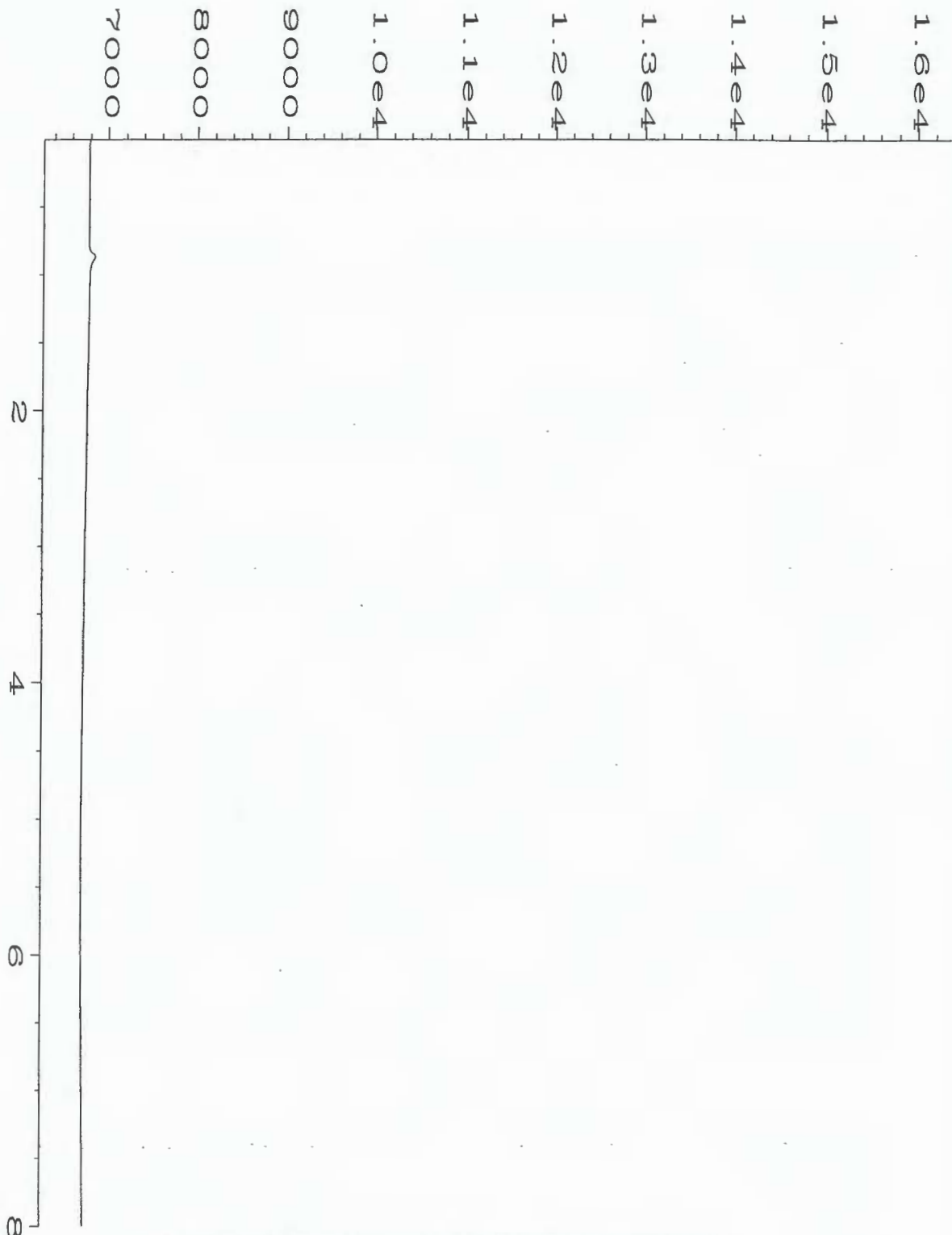
E = Extrapolated value.
 U = Compound analyzed for, but not detected.
 B = Compound also found in the blank.
 RL = Reporting Limit.
 NA = Not Available/Not Applicable.

Note

Pressure calculated at sea level.


 Analyst


 Approved



Data File Name	: C:\HPCHEM\ALGA\DATA\GAS0927A\074R0101.D	Page Number	: 1
Operator	: Leanne Hackney	Vial Number	: 74
Instrument	: ALGA	Injection Number	: 1
Sample Name	: 98-4147-10A	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	GAS.MTH
Acquired on	: 29 Sep 98 12:29 PM	Analysis Method	: GAS0923.MTH
Report Created on:	30 Sep 98 09:40 AM	Sample Amount	: 0
Last Recalib on	: 03 SEP 97 11:40 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: SAMP METHETH		
	: AL209		

Methane, Ethane, Ethene Report Form

Client Sample Number	: AL210	Client Project No.	: 730769-01007
Lab Sample Number	: 98-4147-11A	Lab Work Order	: 98-4147
Date Sampled	: 9/20/98	Dilution Factor	: 1.00
Date Received	: 9/22/98	Method	: RSKSOP-175M
Date Extracted/Prepared	: 9/29/98	Matrix	: Water
Date Analyzed	: 9/29/98	Lab File No.	: GAS0927A075

Compound Name	Cas Number	Sample Concentration mg/L	RL mg/L
Methane	74-82-8	0.053	0.0012
Ethane	74-84-0	U	0.0021
Ethene	74-85-1	0.010	0.0025

Temperature	: 72.1 F	Saturation	Meth	0.012824311
Amount Injected	: 0.5 ml	Concentration		
Total Volume of Sample	: 43 ml	Concentration	Meth	0.040398976
Head space created	: 4 ml	in Head Space		
Methane Area	: 298.223 ug	Saturation	Etha	0
Ethane Area	: 0 ug	Concentration		
Ethene Area	: 19.878 ug	Concentration	Etha	0
Atomic weight(Methane)	: 16 g	in Head Space		
Atomic weight(Ethane)	: 30 g	Saturation	Ethe	0.005419371
Atomic weight(Ethene)	: 28 g	Concentration		
		Concentration	Ethe	0.004712376
		in Head Space		

Qualifiers

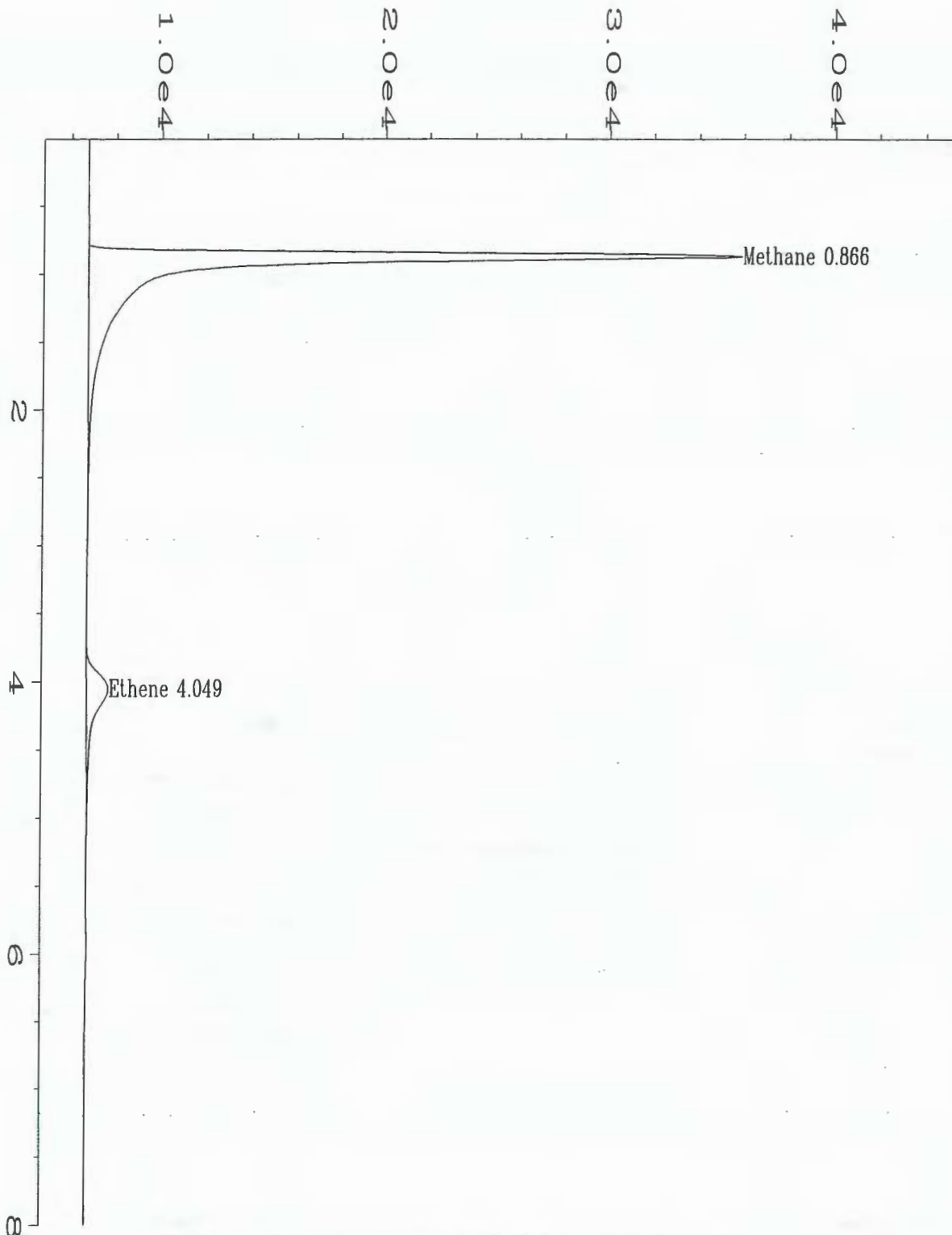
E = Extrapolated value.
 U = Compound analyzed for, but not detected.
 B = Compound also found in the blank.
 RL = Reporting Limit.
 NA = Not Available/Not Applicable.

Note

Pressure calculated at sea level.


 Analyst


 Approved



Data File Name	: C:\HPCHEM\ALGA\DATA\GAS0927A\075R0101.D	Page Number	: 1
Operator	: Leanne Hackney	Vial Number	: 75
Instrument	: ALGA	Injection Number	: 1
Sample Name	: 98-4147-11A	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	GAS.MTH
Acquired on	: 29 Sep 98 12:51 PM	Analysis Method	: GAS0923.MTH
Report Created on:	30 Sep 98 09:40 AM	Sample Amount	: 0
Last Recalib on	: 03 SEP 97 11:40 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: SAMP METHETH		
	AL210		

Methane, Ethane, Ethene Report Form

Client Sample Number	: AL211	Client Project No.	: 730769-01007
Lab Sample Number	: 98-4147-12A	Lab Work Order	: 98-4147
Date Sampled	: 9/20/98	Dilution Factor	: 1.00
Date Received	: 9/22/98	Method	: RSKSOP-175M
Date Extracted/Prepared	: 9/29/98	Matrix	: Water
Date Analyzed	: 9/29/98	Lab File No.	: GAS0927A076

Compound Name	Cas Number	Sample Concentration mg/L	RL mg/L
Methane	74-82-8	0.0043	0.0012
Ethane	74-84-0	U	0.0021
Ethene	74-85-1	U	0.0025

Temperature	: 68.9 F	Saturation	Meth	0.001026984
Amount Injected	: 0.5 ml	Concentration		
Total Volume of Sample	: 43 ml	Concentration	Meth	0.003254787
Head space created	: 4 ml	in Head Space		
Methane Area	: 23.882 ug	Saturation	Etha	0
Ethane Area	: 0 ug	Concentration		
Ethene Area	: 0 ug	Concentration	Etha	0
Atomic weight(Methane)	: 16 g	in Head Space		
Atomic weight(Ethane)	: 30 g	Saturation	Ethe	0
Atomic weight(Ethene)	: 28 g	Concentration		
		Concentration	Ethe	0
		in Head Space		

Qualifiers

E = Extrapolated value.
 U = Compound analyzed for, but not detected.
 B = Compound also found in the blank.
 RL = Reporting Limit.
 NA = Not Available/Not Applicable.

Note

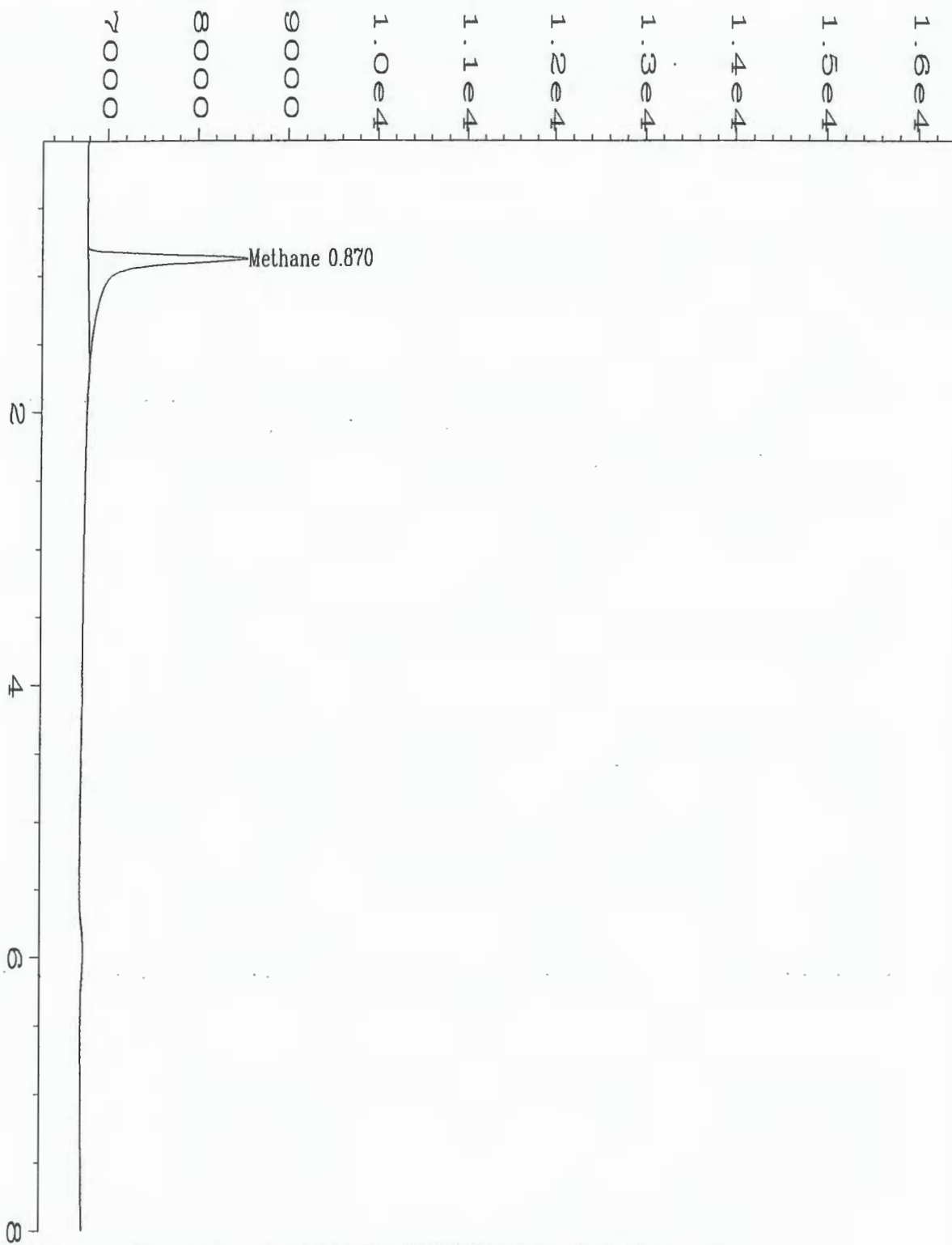
Pressure calculated at sea level.



Analyst



Approved



Data File Name	: C:\HPCHEM\ALGA\DATA\GAS0927A\076R0101.D	Page Number	: 1
Operator	: Leanne Hackney	Vial Number	: 76
Instrument	: ALGA	Injection Number	: 1
Sample Name	: 98-4147-12A	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	GAS.MTH
Acquired on	: 29 Sep 98 01:00 PM	Analysis Method	: GAS0923.MTH
Report Created on:	30 Sep 98 09:40 AM	Sample Amount	: 0
Last Recalib on	: 03 SEP 97 11:40 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: SAMP METHETH		
	AL211		

EVERGREEN ANALYTICAL, INC.
4036 Youngfield St. Wheat Ridge, CO 80033
(303) 425-6021

Methane, Ethane, Ethene Report Form
Method Blank Report

Method Blank Number	: GB092798C	Client Project No.	: 730769-01007
Date Extracted/Prepared	: 9/27/98	Lab Work Order	: 98-4147
Date Analyzed	: 9/29/98	Dilution Factor	: 1.00
		Method	: RSKSOP-175M
		Matrix	: Water
		Lab File No.	: GAS0927A082

Compound Name	Cas Number	Sample Concentration mg/L	RL mg/L
Methane	74-82-8	U	0.0012
Ethane	74-84-0	U	0.0021
Ethene	74-85-1	U	0.0025

Qualifiers

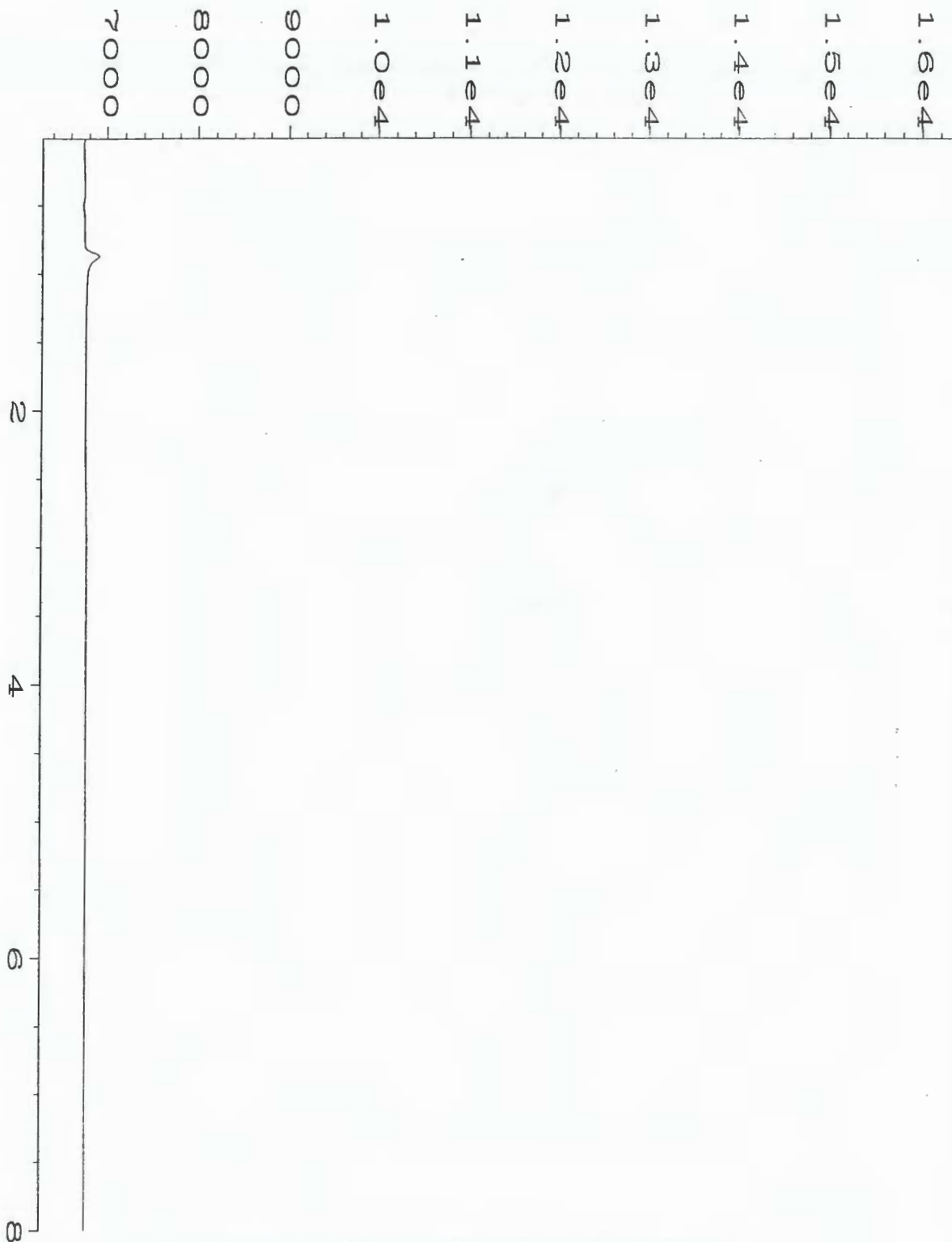
E = Extrapolated value.
U = Compound analyzed for, but not detected.
B = Compound also found in the blank.
RL = Reporting Limit.
NA = Not Available/Not Applicable.



Analyst



Approved



Data File Name	: C:\HPCHEM\ALGA\DATA\GAS0927A\082R0101.D	Page Number	: 1
Operator	: Leanne Hackney	Vial Number	: 82
Instrument	: ALGA	Injection Number	: 1
Sample Name	: GB092798C	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	GAS.MTH
Acquired on	: 29 Sep 98 03:58 PM	Analysis Method	: GAS0923.MTH
Report Created on:	30 Sep 98 09:41 AM	Sample Amount	: 0
Last Recalib on	: 03 SEP 97 11:40 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: MBLK METH		
	Displaced 4ml of distilled water in 43ml vial with Helium,		

RSK-175M Gas Method
Methane, Ethane, Ethene Gas Matrix Spike / Matrix Spike Duplicate Report

Client Sample No.	: AL209	Client Project No.	: 730769-01007
Lab Sample No.	: 98-4147-10A	Lab Work Order	: 98-4147
Date Sampled	: 9/20/98	EPA Method No.	: RSKSOP-175M
Date Received	: 9/22/98	Matrix	: Water
Date Prepared	: 9/29/98	Method Blank	: GAS0927C
Date Analyzed	: 9/29/98	Lab File No's.	: GAS0927A078,080
E.A. MS/MSD Spike Source No.	: 1719		

Compound	Spike Added (ug)	Sample ** Concentration (ug)	MS Concentration (ug)	MS %REC	QC Limits %REC
Methane Gas	500	0	309	62	47-88
Ethene Gas	500	0	168	34	29-53
Ethane Gas	500	0	263	53	41-77


Compound	Spike Added (ug)	MSD Concentration (ug)	MSD %REC	RPD	QC Limits	
					RPD	%REC
Methane Gas	500	305	61	1.1	0-16.4	47-88
Ethene Gas	500	168	34	0.3	0-26.4	29-53
Ethane Gas	500	258	52	1.9	0-26.3	41-77

RPD: 0 out of (3) outside limits.
Spike Recovery: 0 out of (6) outside limits.

Notes

- * = Values outside of QC limits.
- ** = Sample concentration reported at DF = 10.
- NA = Not analyzed/not available

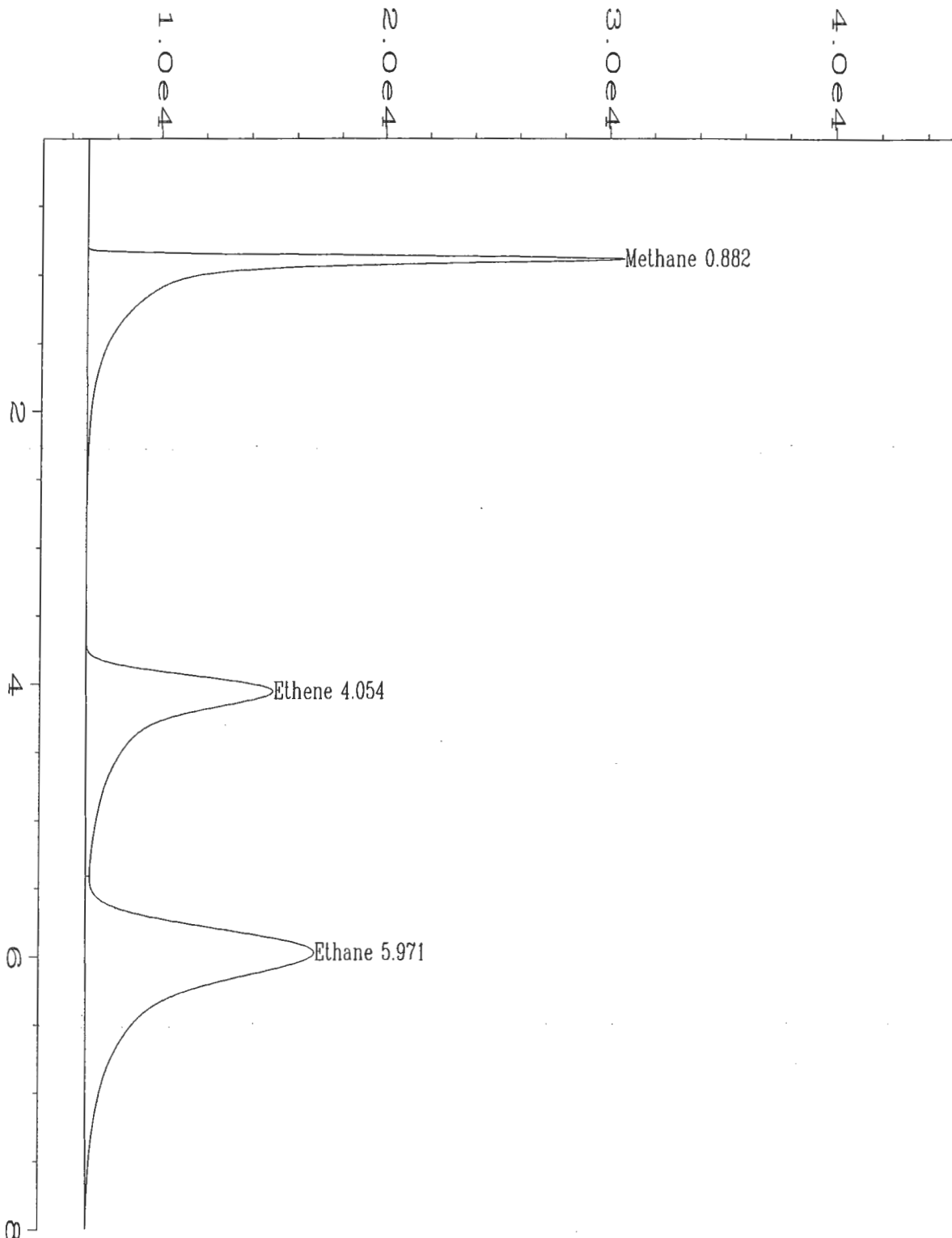
Note: The Spike was made by taking the sample and displacing 4ml of headspace with a 1% methane, ethane, ethene gas and shaking the VOA for 5 minutes. Then injecting 50 ul from the headspace into the GC resulting in a theoretical concentration of 500 ug. Sample injected at DF = 10.



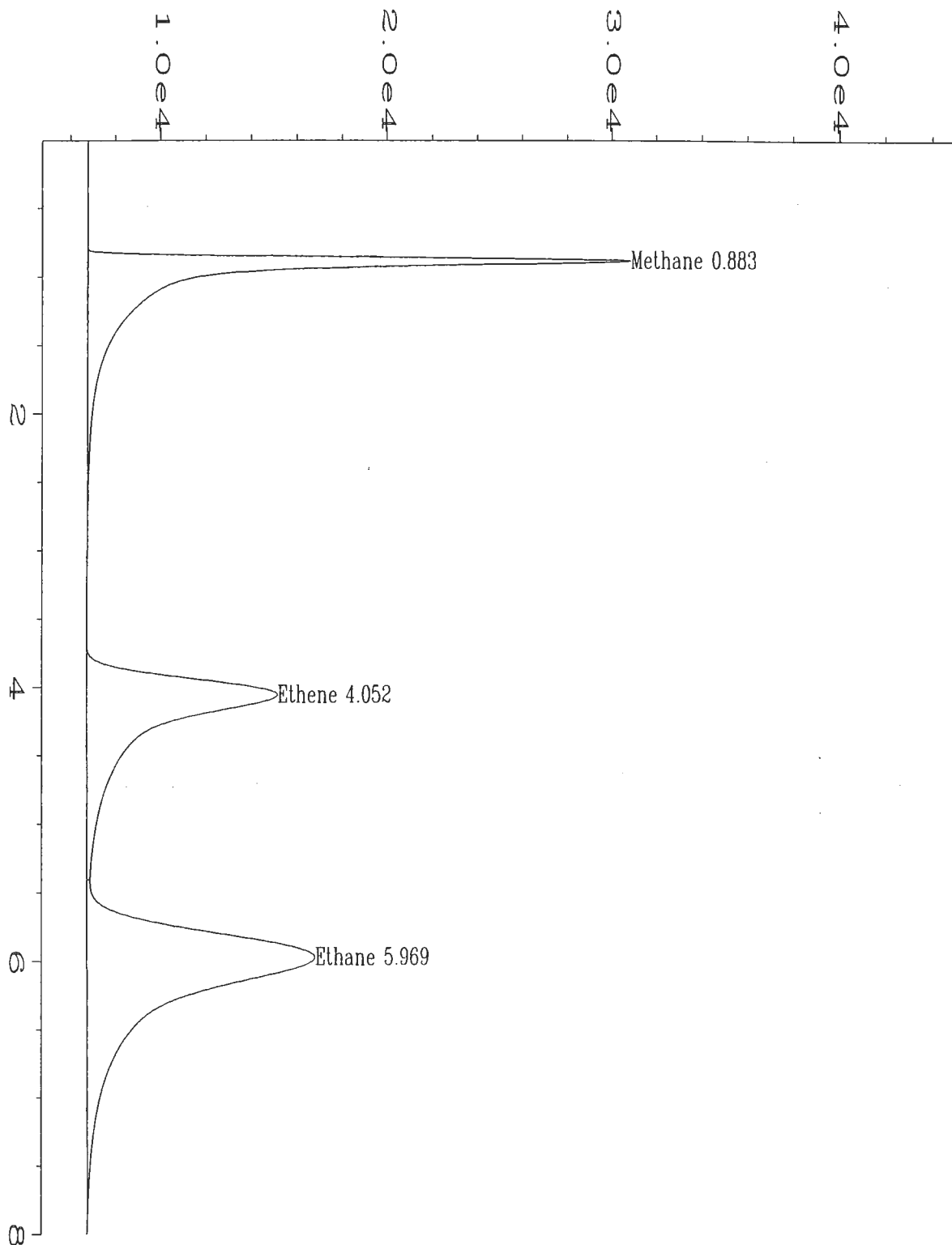
Analyst



Approved



Data File Name	: C:\HPCHEM\ALGA\DATA\GAS0927A\078R0101.D	Page Number	: 1
Operator	: Leanne Hackney	Vial Number	: 78
Instrument	: ALGA	Injection Number	: 1
Sample Name	: 98-4147-10AMS	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	GAS.MTH
Acquired on	: 29 Sep 98 03:08 PM	Analysis Method	: GAS0923.MTH
Report Created on:	30 Sep 98 09:40 AM	Sample Amount	: 0
Last Recalib on	: 03 SEP 97 11:40 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: MS METHETH		
	AL209		



Data File Name	: C:\HPCHEM\ALGA\DATA\GAS0927A\080R0101.D	Page Number	: 1
Operator	: Leanne Hackney	Vial Number	: 80
Instrument	: ALGA	Injection Number	: 1
Sample Name	: 98-4147-10AMSD	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	GAS.MTH
Acquired on	: 29 Sep 98 03:35 PM	Analysis Method	: GAS0923.MTH
Report Created on:	30 Sep 98 09:41 AM	Sample Amount	: 0
Last Recalib on	: 03 SEP 97 11:40 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: MSD METHETH		
	: AL209		

Evergreen Analytical, Inc.
 4036 Youngfield, Wheat Ridge, CO 80033
 (303) 425-6021

RSK-175M Gas Method
Methane, Ethane, Ethene Gas LCS & LCSD Report

LCS No. : LCS092798C EPA Method No. : RSKSOP-175M
 Date Prepared : 9/27/98 Matrix : Water
 Date Analyzed : 9/29/98 Method Blank : GB092798C
 E.A. LCS/LCSD Spike No. : 1719 Lab File No's. : GAS0927A081,097

Compound	Spike Added (ug)	Blank ** Concentration (ug)	LCS Concentration (ug)	MS %REC	QC Limits %REC
Methane Gas	500	0	369	74	47-88
Ethene Gas	500	0	234	47	29-53
Ethane Gas	500	0	345	69	41-77

Compound	Spike Added (ug)	LCSD Concentration (ug)	MSD %REC	RPD	QC Limits	
					RPD	%REC
Methane Gas	500	375	75	1.5	0-16.4	47-88
Ethene Gas	500	238	48	1.6	0-26.4	29-53
Ethane Gas	500	350	70	1.5	0-26.3	41-77

RPD: 0 out of (3) outside limits.
 Spike Recovery: 0 out of (6) outside limits.

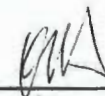
Notes

* = Values outside of QC limits.
 ** = Blank concentration reported at DF = 10.
 NA = Not analyzed/not available

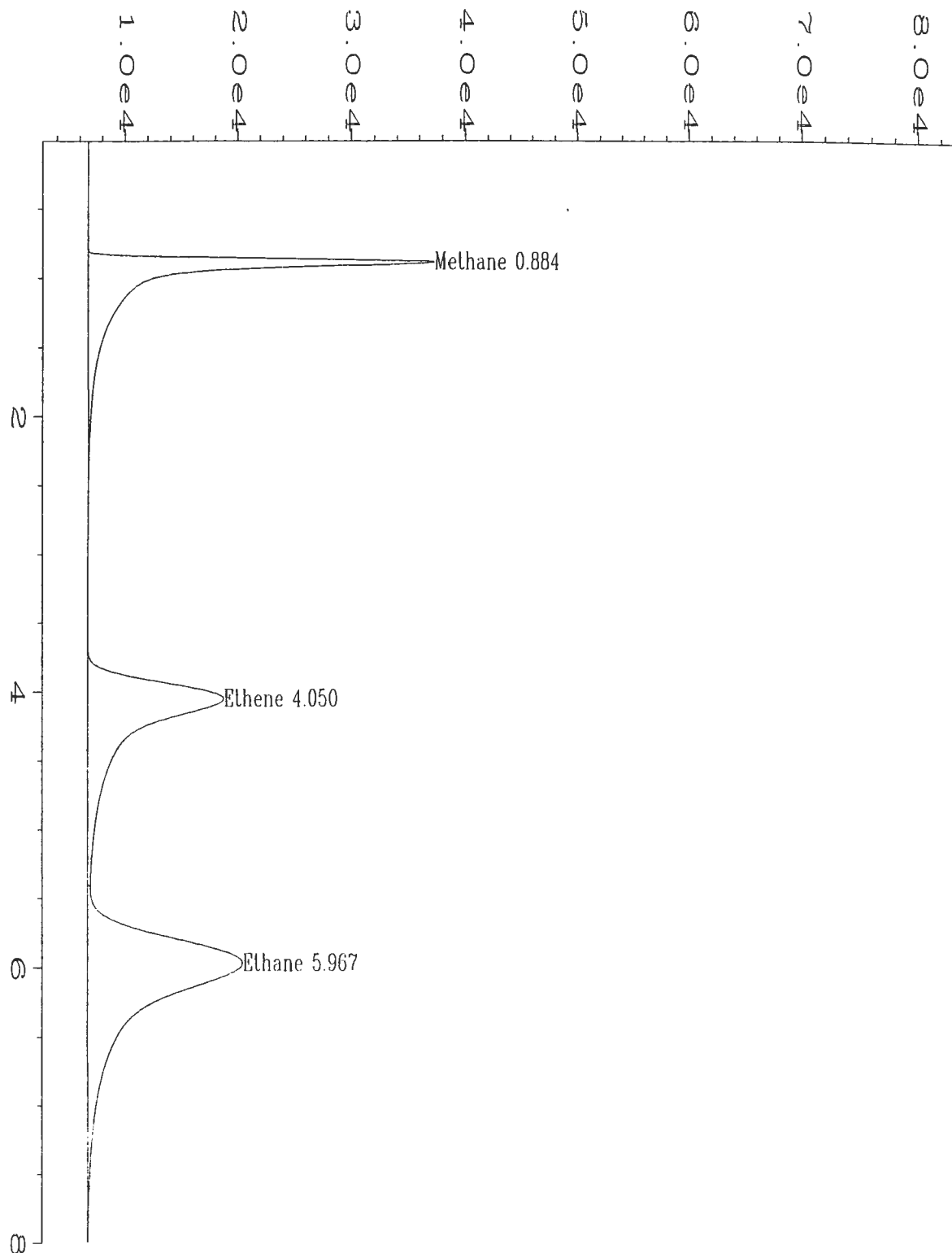
Note: The Spike was made by taking the sample and displacing 4ml of headspace with a 1% methane, ethane, ethene gas and shaking the VOA for 5 minutes. Then injecting 50 ul from the headspace into the GC resulting in a theoretical concentration of 500 ug. Sample injected at DF = 10.



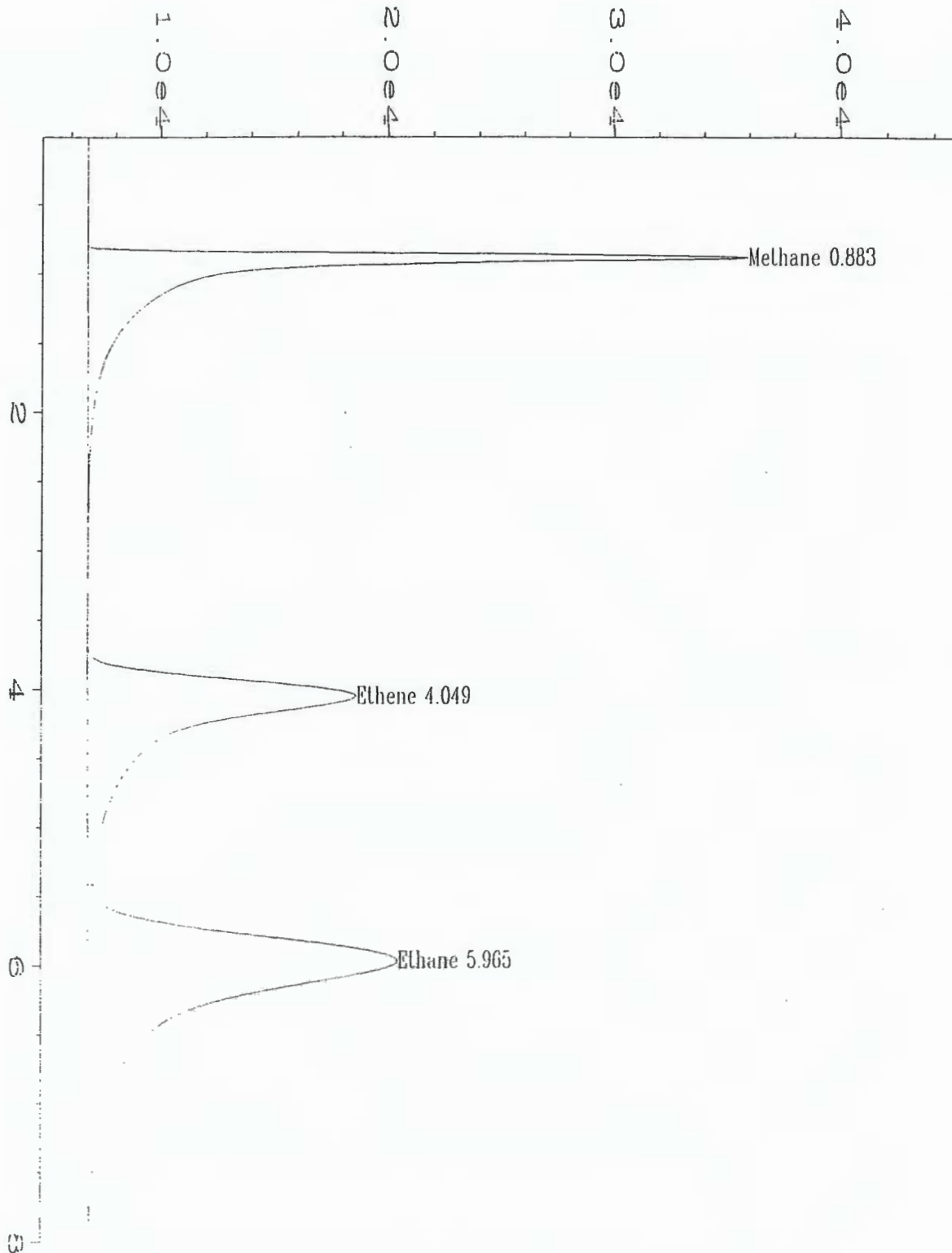
Analyst



Approved



Data File Name	: C:\HPCHEM\ALGA\DATA\GAS0927A\081R0101.D	Page Number	: 1
Operator	: Leanne Hackney	Vial Number	: 81
Instrument	: ALGA	Injection Number	: 1
Sample Name	: LCS092798C	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	GAS.MTH
Acquired on	: 29 Sep 98 03:48 PM	Analysis Method	: GAS0923.MTH
Report Created on:	30 Sep 98 09:41 AM	Sample Amount	: 0
Last Recalib on	: 03 SEP 97 11:40 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: LCS METH		
	Displaced 4ml of distilled water in 43ml vial with 1%		



Data File Name	: C:\HPCHEM\ALGA\DATA\GAS0927A\097R0101.D	Page Number	: 1
Operator	: Leanne Hackney	Vial Number	: 97
Instrument	: ALGA	Injection Number	: 1
Sample Name	: LCSD092798C	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	GAS.MTH
Acquired on	: 29 Sep 98 06:20 PM	Analysis Method	: GAS0923.MTH
Report Created on:	30 Sep 98 09:46 AM	Sample Amount	: 0
Last Recalib on	: 03 SEP 97 11:40 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: LCSD METH		
	Displaced 4ml of distilled water in 43ml vial with 1%		



October 09, 1998

MIKE DUCHESNEAU
PARSONS ENGINEERING SCIENCE
30 DAN ROAD
CANTON, MA 02021-2809

Lab Work Order: 98-4271
Client Project: 730769-01007

Dear Mike Duchesneau:

Enclosed are the analytical results for the samples shown in the Laboratory Work Order Summary. The enclosed data have been reviewed for quality assurance. If you have any questions concerning the reported information, please contact me.

Yes	No	NA*	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The samples received in good condition within EPA holding times.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Custody seals present. Seal intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Samples preserved to acceptable pH levels.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Samples analyzed within holding times per the analytical method.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	A case narrative explaining analytical anomalies is attached.

NA*=not applicable

The temperature of the sample(s) upon arrival was 2 degrees C.

This report contains a total of 25 pages including the cover letter.

SAMPLE DISPOSAL: Except for high level mercury (>260 ppm) samples, EAL will dispose of all samples one month from the date of this letter. If you want samples returned, please advise us by mail or fax as soon as possible.

RECORDS RETENTION: A copy of this project report and supporting data will be retained for a period of five years. If you want the project file sent to you after the five year period, please return a copy of this letter.

The invoice for this work will be mailed to your Accounts Payable department shortly.

Thank you for using the services of Evergreen Analytical.

Sincerely,

A handwritten signature in cursive script that reads "Carl Smits".

Carl Smits
V.P. Operations

Evergreen Analytical Laboratory

98-4271

WORK ORDER Summary

25-Sep 05:06 pm

Report To: Mike Duchesneau

Client Project ID: 730769-01007

Parsons Engineering Science
30 Dan Road
Canton, MA 02021-2809

Phone: (781) 401-3200
FAX: (781) 401-2575


Comments: QC Provided: MS/MSD, LCS, Lab Duplicate, Method Blank.

QC Level: MS/MSD required on Client samples

Sample ID	Client Sample ID	Analysis	#	Matrix	Loc	Collection	Received	Due	HT
98-4271-01A	AL217	Methane, Ethane, Ethene		Water	2	22-Sep-98	25-Sep-98	09-Oct-98	06-Oct-98
98-4271-02A	AL218	Methane, Ethane, Ethene						09-Oct-98	06-Oct-98
98-4271-03A	AL212	Methane, Ethane, Ethene				21-Sep-98		09-Oct-98	05-Oct-98
98-4271-04A	AL213	Methane, Ethane, Ethene						09-Oct-98	05-Oct-98
98-4271-05A	AL812	Methane, Ethane, Ethene						09-Oct-98	05-Oct-98
98-4271-06A	AL814	Methane, Ethane, Ethene						09-Oct-98	05-Oct-98

= Special list. See sample comments or test information.
HT = Holding Time expiration date.

Quote # 1785

CHAIN-OF-CUSTODY RECORD						PAGE 1 OF 1													
 30 Dan Road Canton, MA 02021 Phone: 781-401-3200 Fax: 781-401-2575		JOB NO. <u>730769-01007</u>			LABORATORY <u>Evergreen</u>														
		PROJECT <u>Seneca 3rd Qtr. '98</u>			ADDRESS <u>Wheat Ridge, CO</u>														
		CONTACT <u>M. I. Le Duchesneau</u>			CONTACT <u>Shea Grainer</u>														
SAMPLE NO.	LABORATORY SAMPLE NO.	SAMPLING		SAMPLE DEPTH	SAMPLE MATRIX	ANALYSES										M/E/E	NO. OF CONTAINERS	COMMENTS <small>(Special instructions, cautions, etc.)</small>	
		DATE	TIME			VOA	SVOC	METALS	CN										
AL217	01	9/22/98	1215		water												X	3	-01
AL218	02	9/22/98	1430		water												X	3	-02
AL212	03	9/21/98	1250		water												X	3	-03
AL213	04	9/21/98	1445		water												X	3	-04
AL812	05	9/21/98	0900		water												X	3	Rinse Blank -05
AL814	06	9/21/98	1445		water												X	3	-06
<i>K/S</i>						<i>K/S</i>													
Sampled and Relinquished by Sign <i>[Signature]</i> Print <u>Kerry Smith</u> Firm <u>Parsons ES</u> Date <u>9/23/98</u> Time <u>1000</u>		Received by Sign <i>[Signature]</i> Print <u>Priscilla Dalton</u> Firm <u>QES</u> Date <u>9-24-98</u> Time <u>0845</u>		VOA Vial													X		REMARKS: (Sample storage, nonstandard sample bottles) Please return cooler to Parsons ES c/o Seneca Army Depot Building 323 Romulus, NY 14541 Sampling Complete
				Glass Bottle															
				Plastic Bottle															
				Preservative													A		
				Container Volume													C		
Relinquished by Sign <i>[Signature]</i> Print <u>Priscilla Dalton</u> Firm <u>QES</u> Date <u>9-25-98</u> Time <u>0800</u>		Received by Sign <i>[Signature]</i> Print <u>J Dechart</u> Firm <u>EAL</u> Date <u>9-25-98</u> Time <u>1630</u>		PRESERVATION KEY: C - Acidified with HCl A - Ice D - Acidified with HNO ₃ B - Filtered E - Acidified with H ₂ SO ₄ F - NaOH + Ascorbic G - Other										40	1				
Evidence Samples tampered with? If Yes, explain in remarks.		<input type="checkbox"/> No <input type="checkbox"/> Yes																Cooler #:	

EVERGREEN ANALYTICAL, INC.
 4036 Youngfield St. Wheat Ridge, CO 80033
 (303) 425-6021

Methane, Ethane, Ethene Report Form

Client Sample Number	: AL217	Client Project No.	: 730769-01007
Lab Sample Number	: 98-4271-01	Lab Work Order	: 98-4271
Date Sampled	: 9/22/98	Dilution Factor	: 1.00
Date Received	: 9/25/98	Method	: RSKSOP-175M
Date Extracted/Prepared	: 10/1/98	Matrix	: Water
Date Analyzed	: 10/1/98	Lab File No.	: GAS1001022

Compound Name	Cas Number	Sample Concentration mg/L	RL mg/L
Methane	74-82-8	U	0.0012
Ethane	74-84-0	U	0.0021
Ethene	74-85-1	U	0.0025

Temperature	: 73.4 F	Saturation	Meth	0
Amount Injected	: 0.5 ml	Concentration		
Total Volume of Sample	: 43 ml	Concentration	Meth	0
Head space created	: 4 ml	in Head Space		
Methane Area	: 0 ug	Saturation	Etha	0
Ethane Area	: 0 ug	Concentration		
Ethene Area	: 0 ug	Concentration	Etha	0
Atomic weight(Methane)	: 16 g	in Head Space		
Atomic weight(Ethane)	: 30 g	Saturation	Ethe	0
Atomic weight(Ethene)	: 28 g	Concentration		
		Concentration	Ethe	0
		in Head Space		

Qualifiers

E = Extrapolated value.
 U = Compound analyzed for, but not detected.
 B = Compound also found in the blank.
 RL = Reporting Limit.
 NA = Not Available/Not Applicable.

Note

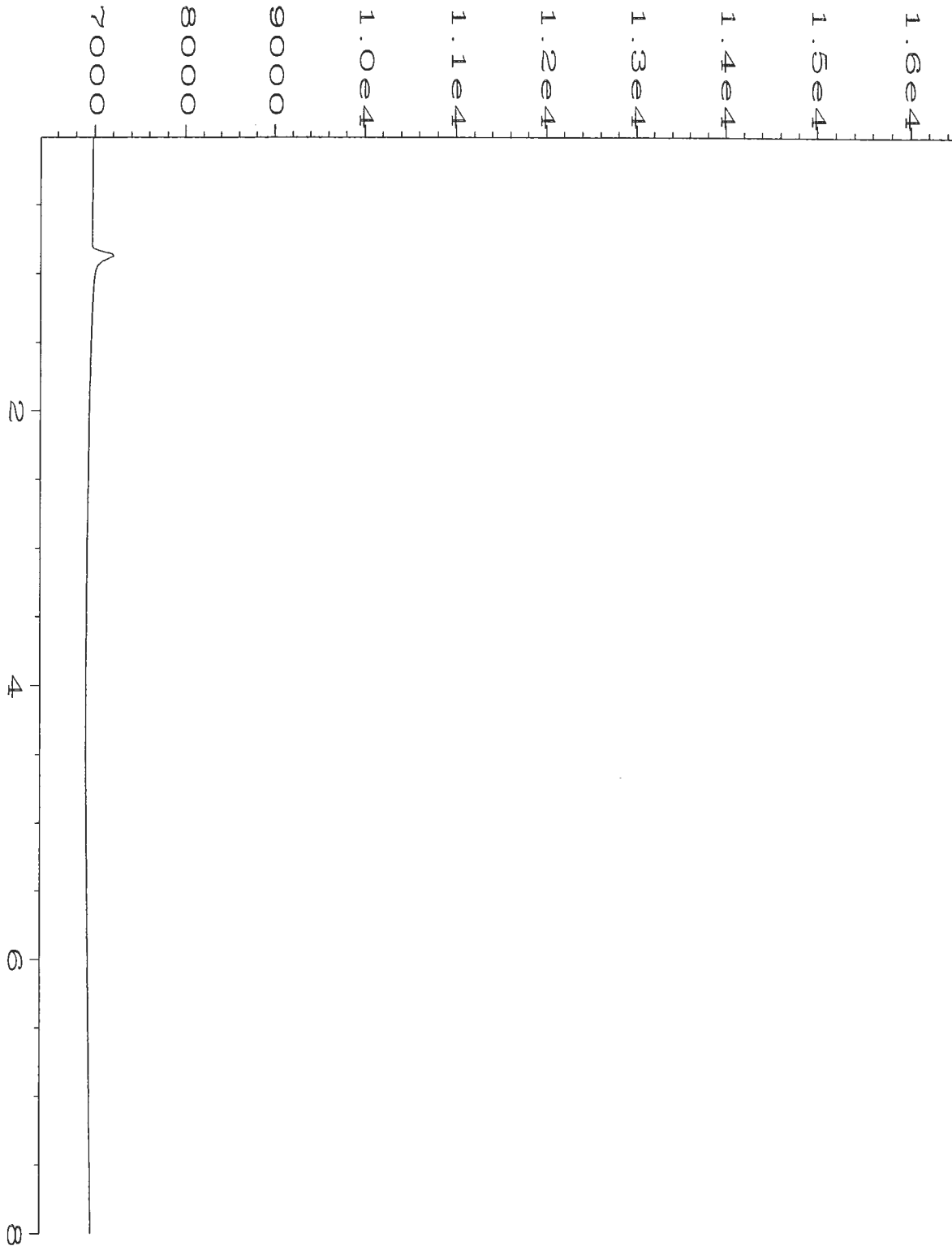
Pressure calculated at sea level.



Analyst



Approved



Data File Name	: C:\HPCHEM\ALGA\DATA\GAS1001\022R0101.D	Page Number	: 1
Operator	: Leanne Hackney	Vial Number	: 22
Instrument	: ALGA	Injection Number	: 1
Sample Name	: 98-4271-01A	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	GAS.MTH
Acquired on	: 01 Oct 98 04:15 PM	Analysis Method	: GAS1001.MTH
Report Created on:	07 Oct 98 01:37 PM	Sample Amount	: 0
Last Recalib on	: 03 SEP 97 11:40 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: SAMP METHETH		
	AL217		

Methane, Ethane, Ethene Report Form

Client Sample Number	: AL218	Client Project No.	: 730769-01007
Lab Sample Number	: 98-4271-02	Lab Work Order	: 98-4271
Date Sampled	: 9/22/98	Dilution Factor	: 1.00
Date Received	: 9/25/98	Method	: RSKSOP-175M
Date Extracted/Prepared	: 10/1/98	Matrix	: Water
Date Analyzed	: 10/1/98	Lab File No.	: GAS1001023

Compound Name	Cas Number	Sample Concentration mg/L	RL mg/L
Methane	74-82-8	U	0.0012
Ethane	74-84-0	U	0.0021
Ethene	74-85-1	U	0.0025

Temperature	: 72.8 F	Saturation	Meth	0
Amount Injected	: 0.5 ml	Concentration		
Total Volume of Sample	: 43 ml	Concentration	Meth	0
Head space created	: 4 ml	in Head Space		
Methane Area	: 0 ug	Saturation	Etha	0
Ethane Area	: 0 ug	Concentration		
Ethene Area	: 0 ug	Concentration	Etha	0
Atomic weight(Methane)	: 16 g	in Head Space		
Atomic weight(Ethane)	: 30 g	Saturation	Ethe	0
Atomic weight(Ethene)	: 28 g	Concentration		
		Concentration	Ethe	0
		in Head Space		

Qualifiers

E = Extrapolated value.
 U = Compound analyzed for, but not detected.
 B = Compound also found in the blank.
 RL = Reporting Limit.
 NA = Not Available/Not Applicable.

Note

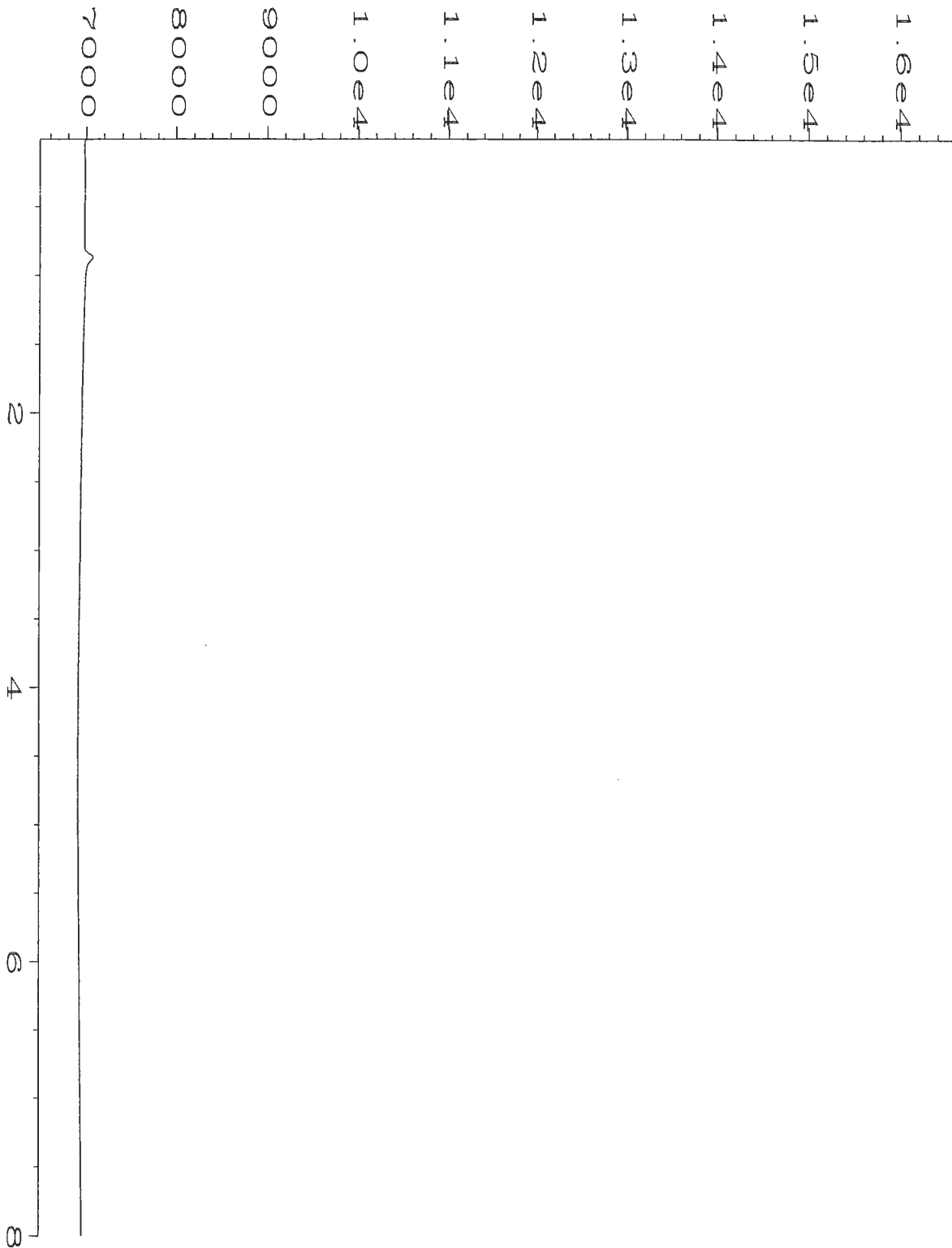
Pressure calculated at sea level.



Analyst



Approved



Data File Name	: C:\HPCHEM\ALGA\DATA\GAS1001\023R0101.D	Page Number	: 1
Operator	: Leanne Hackney	Vial Number	: 23
Instrument	: ALGA	Injection Number	: 1
Sample Name	: 98-4271-02A	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	GAS.MTH
Acquired on	: 01 Oct 98 04:30 PM	Analysis Method	: GAS1001.MTH
Report Created on:	07 Oct 98 01:37 PM	Sample Amount	: 0
Last Recalib on	: 03 SEP 97 11:40 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: SAMP METHETH		
	: AL218		

Methane, Ethane, Ethene Report Form

Client Sample Number	: AL212	Client Project No.	: 730769-01007
Lab Sample Number	: 98-4271-03	Lab Work Order	: 98-4271
Date Sampled	: 9/21/98	Dilution Factor	: 1.00
Date Received	: 9/25/98	Method	: RSKSOP-175M
Date Extracted/Prepared	: 10/1/98	Matrix	: Water
Date Analyzed	: 10/1/98	Lab File No.	: GAS1001025

Compound Name	Cas Number	Sample Concentration mg/L	RL mg/L
Methane	74-82-8	0.13	0.0012
Ethane	74-84-0	U	0.0021
Ethene	74-85-1	U	0.0025


Temperature	: 73.8 F	Saturation Meth	: 0.03231318
Amount Injected	: 0.5 ml	Concentration Meth	: 0.101468012
Total Volume of Sample	: 43 ml	Concentration in Head Space	
Head space created	: 4 ml	Saturation Etha	: 0
Methane Area	: 751.427 ug	Concentration Etha	: 0
Ethane Area	: 0 ug	Concentration in Head Space	
Ethene Area	: 0 ug	Saturation Ethe	: 0
Atomic weight(Methane)	: 16 g	Concentration Ethe	: 0
Atomic weight(Ethane)	: 30 g	Concentration in Head Space	
Atomic weight(Ethene)	: 28 g	Concentration Ethe	: 0
		Concentration in Head Space	

Qualifiers

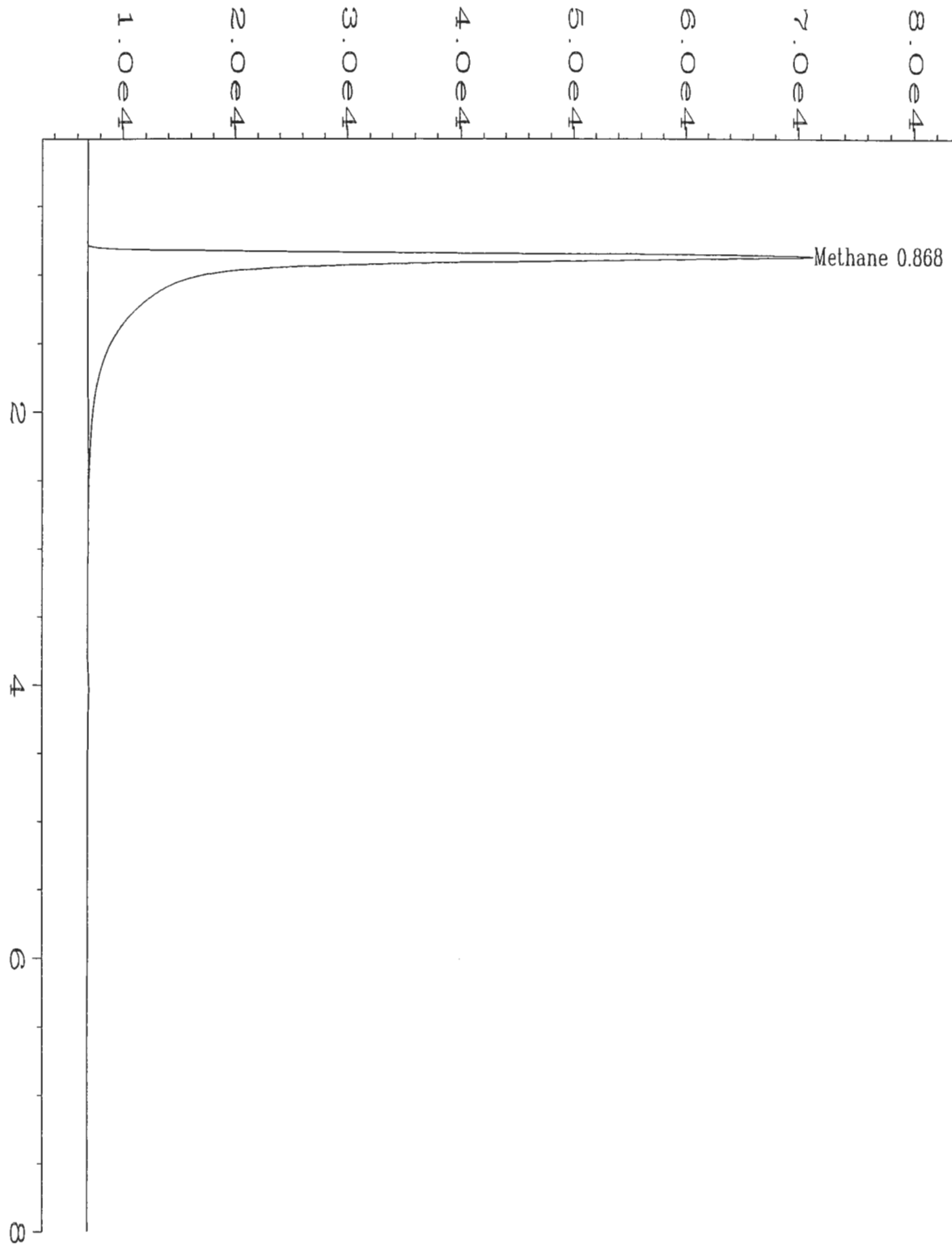
E = Extrapolated value.
 U = Compound analyzed for, but not detected.
 B = Compound also found in the blank.
 RL = Reporting Limit.
 NA = Not Available/Not Applicable.

Note

Pressure calculated at sea level.


 Analyst


 Approved



Data File Name	: C:\HPCHEM\ALGA\DATA\GAS1001\025R0101.D	Page Number	: 1
Operator	: Leanne Hackney	Vial Number	: 25
Instrument	: ALGA	Injection Number	: 1
Sample Name	: 98-4271-03A	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	GAS.MTH
Acquired on	: 01 Oct 98 04:59 PM	Analysis Method	: GAS1001.MTH
Report Created on:	07 Oct 98 01:37 PM	Sample Amount	: 0
Last Recalib on	: 03 SEP 97 11:40 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: SAMP METHETH		
	AL212		

Methane, Ethane, Ethene Report Form

Client Sample Number	: AL213	Client Project No.	: 730769-01007
Lab Sample Number	: 98-4271-04	Lab Work Order	: 98-4271
Date Sampled	: 9/21/98	Dilution Factor	: 1.00
Date Received	: 9/25/98	Method	: RSKSOP-175M
Date Extracted/Prepared	: 10/1/98	Matrix	: Water
Date Analyzed	: 10/1/98	Lab File No.	: GAS1001026

Compound Name	Cas Number	Sample Concentration mg/L	RL mg/L
Methane	74-82-8	U	0.0012
Ethane	74-84-0	U	0.0021
Ethene	74-85-1	U	0.0025

Temperature	: 73.2 F	Saturation	Meth	0
Amount Injected	: 0.5 ml	Concentration		
Total Volume of Sample	: 43 ml	Concentration	Meth	0
Head space created	: 4 ml	in Head Space		
Methane Area	: 0 ug	Saturation	Etha	0
Ethane Area	: 0 ug	Concentration		
Ethene Area	: 0 ug	Concentration	Etha	0
Atomic weight(Methane)	: 16 g	in Head Space		
Atomic weight(Ethane)	: 30 g	Saturation	Ethe	0
Atomic weight(Ethene)	: 28 g	Concentration		
		Concentration	Ethe	0
		in Head Space		

Qualifiers

E = Extrapolated value.
 U = Compound analyzed for, but not detected.
 B = Compound also found in the blank.
 RL = Reporting Limit.
 NA = Not Available/Not Applicable.

Note

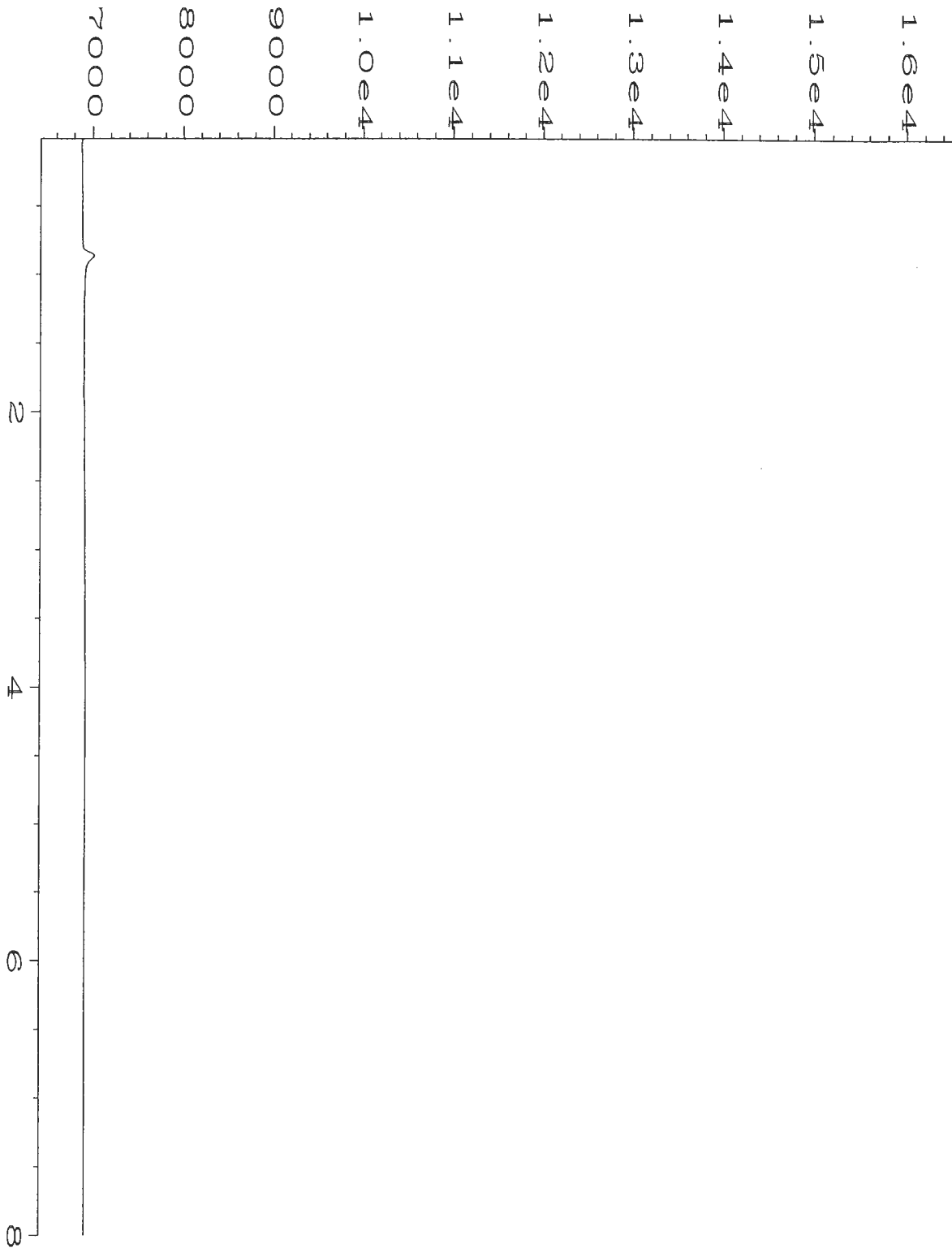
Pressure calculated at sea level.



Analyst



Approved



Data File Name	: C:\HPCHEM\ALGA\DATA\GAS1001\026R0101.D	Page Number	: 1
Operator	: Leanne Hackney	Vial Number	: 26
Instrument	: ALGA	Injection Number	: 1
Sample Name	: 98-4271-04A	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	GAS.MTH
Acquired on	: 01 Oct 98 05:08 PM	Analysis Method	: GAS1001.MTH
Report Created on:	07 Oct 98 01:37 PM	Sample Amount	: 0
Last Recalib on	: 03 SEP 97 11:40 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: SAMP METHETH		
	: AL213		

Methane, Ethane, Ethene Report Form

Client Sample Number	: AL812	Client Project No.	: 730769-01007
Lab Sample Number	: 98-4271-05	Lab Work Order	: 98-4271
Date Sampled	: 9/21/98	Dilution Factor	: 1.00
Date Received	: 9/25/98	Method	: RSKSOP-175M
Date Extracted/Prepared	: 10/1/98	Matrix	: Water
Date Analyzed	: 10/1/98	Lab File No.	: GAS1001027

Compound Name	Cas Number	Sample Concentration mg/L	RL mg/L
Methane	74-82-8	U	0.0012
Ethane	74-84-0	U	0.0021
Ethene	74-85-1	U	0.0025


Temperature	: 73.2 F	Saturation	Meth	0
Amount Injected	: 0.5 ml	Concentration		
Total Volume of Sample	: 43 ml	Concentration	Meth	0
Head space created	: 4 ml	in Head Space		
Methane Area	: 0 ug	Saturation	Etha	0
Ethane Area	: 0 ug	Concentration		
Ethene Area	: 0 ug	Concentration	Etha	0
Atomic weight(Methane)	: 16 g	in Head Space		
Atomic weight(Ethane)	: 30 g	Saturation	Ethe	0
Atomic weight(Ethene)	: 28 g	Concentration		
		Concentration	Ethe	0
		in Head Space		


Qualifiers

E = Extrapolated value.
 U = Compound analyzed for, but not detected.
 B = Compound also found in the blank.
 RL = Reporting Limit.
 NA = Not Available/Not Applicable.

Note

Pressure calculated at sea level.


 Analyst


 Approved



Data File Name	: C:\HPCHEM\ALGA\DATA\GAS1001\027R0101.D	Page Number	: 1
Operator	: Leanne Hackney	Vial Number	: 27
Instrument	: ALGA	Injection Number	: 1
Sample Name	: 98-4271-05A	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	GAS.MTH
Acquired on	: 01 Oct 98 05:17 PM	Analysis Method	: GAS1001.MTH
Report Created on:	07 Oct 98 01:37 PM	Sample Amount	: 0
Last Recalib on	: 03 SEP 97 11:40 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: SAMP METHETH		
	: AL812		

Methane, Ethane, Ethene Report Form

Client Sample Number	: AL812	Client Project No.	: 730769-01007
Lab Sample Number	: 98-4271-05DUP	Lab Work Order	: 98-4271
Date Sampled	: 9/21/98	Dilution Factor	: 1.00
Date Received	: 9/25/98	Method	: RSKSOP-175M
Date Extracted/Prepared	: 10/1/98	Matrix	: Water
Date Analyzed	: 10/1/98	Lab File No.	: GAS1001031

Compound Name	Cas Number	Sample Concentration mg/L	RL mg/L
Methane	74-82-8	U	0.0012
Ethane	74-84-0	U	0.0021
Ethene	74-85-1	U	0.0025

Temperature	: 73.2 F	Saturation	Meth	0
Amount Injected	: 0.5 ml	Concentration		
Total Volume of Sample	: 43 ml	Concentration	Meth	0
Head space created	: 4 ml	in Head Space		
Methane Area	: 0 ug	Saturation	Etha	0
Ethane Area	: 0 ug	Concentration		
Ethene Area	: 0 ug	Concentration	Etha	0
Atomic weight(Methane)	: 16 g	in Head Space		
Atomic weight(Ethane)	: 30 g	Saturation	Ethe	0
Atomic weight(Ethene)	: 28 g	Concentration		
		Concentration	Ethe	0
		in Head Space		

Qualifiers

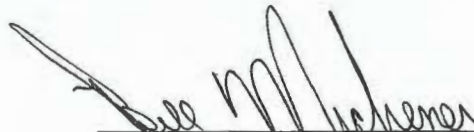
E = Extrapolated value.
 U = Compound analyzed for, but not detected.
 B = Compound also found in the blank.
 RL = Reporting Limit.
 NA = Not Available/Not Applicable.

Note

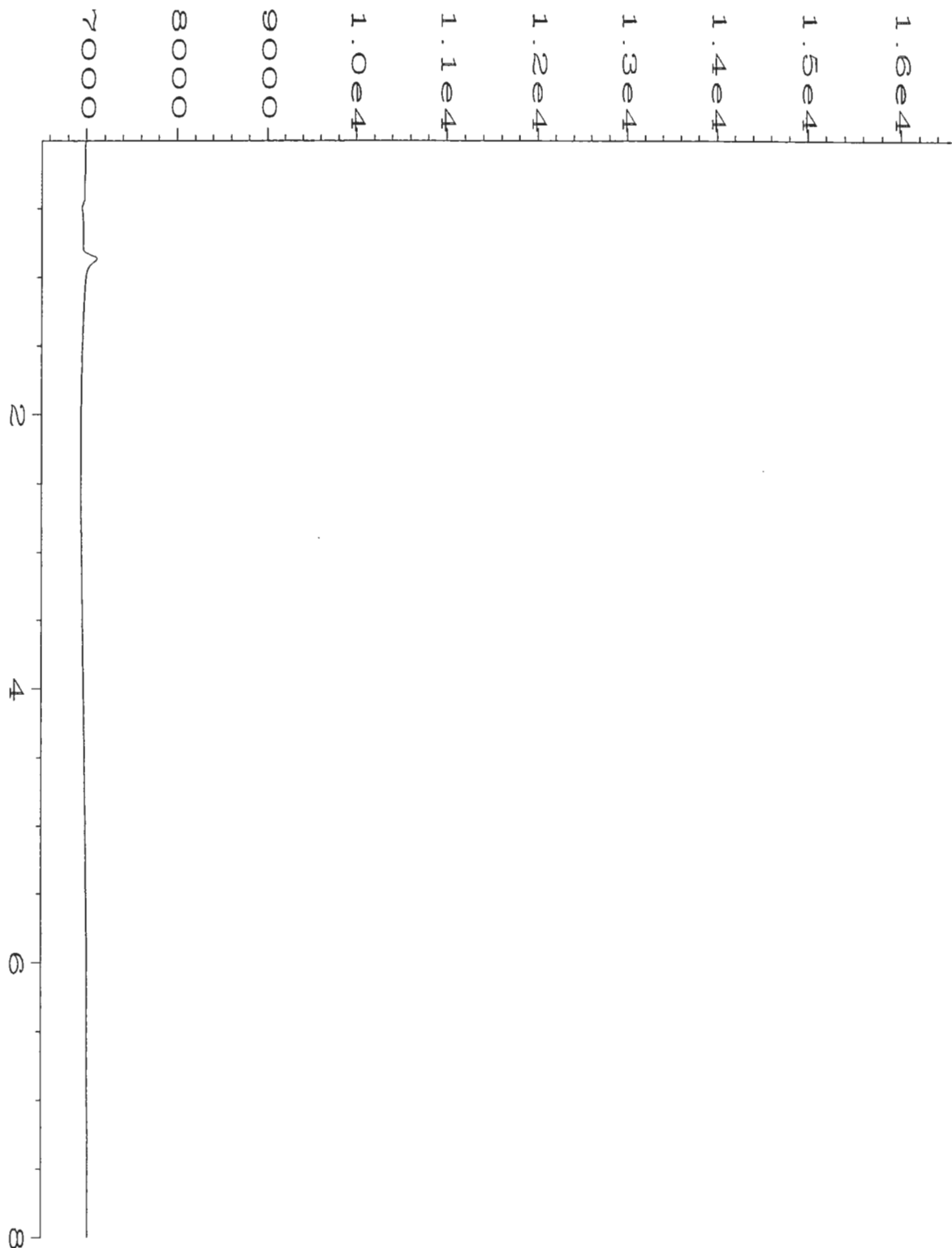
Pressure calculated at sea level.



Analyst



Approved



Data File Name	: C:\HPCHEM\ALGA\DATA\GAS1001\031R0101.D	Page Number	: 1
Operator	: Leanne Hackney	Vial Number	: 31
Instrument	: ALGA	Injection Number	: 1
Sample Name	: 98-4271-05A Dup	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	GAS.MTH
Acquired on	: 01 Oct 98 08:33 PM	Analysis Method	: GAS1001.MTH
Report Created on:	07 Oct 98 01:38 PM	Sample Amount	: 0
Last Recalib on	: 03 SEP 97 11:40 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: DUP METHETH		
	AL812		

Methane, Ethane, Ethene Report Form

Client Sample Number	: AL814	Client Project No.	: 730769-01007
Lab Sample Number	: 98-4271-06	Lab Work Order	: 98-4271
Date Sampled	: 9/21/98	Dilution Factor	: 1.00
Date Received	: 9/25/98	Method	: RSKSOP-175M
Date Extracted/Prepared	: 10/1/98	Matrix	: Water
Date Analyzed	: 10/1/98	Lab File No.	: GAS1001028

Compound Name	Cas Number	Sample Concentration mg/L	RL mg/L
Methane	74-82-8	U	0.0012
Ethane	74-84-0	U	0.0021
Ethene	74-85-1	U	0.0025

Temperature	: 73.1 F	Saturation Meth	0
Amount Injected	: 0.5 ml	Concentration Meth	0
Total Volume of Sample	: 43 ml	Concentration in Head Space	0
Head space created	: 4 ml	Saturation Etha	0
Methane Area	: 0 ug	Concentration Etha	0
Ethane Area	: 0 ug	Concentration in Head Space	0
Ethene Area	: 0 ug	Saturation Ethe	0
Atomic weight(Methane)	: 16 g	Concentration Ethe	0
Atomic weight(Ethane)	: 30 g	Concentration in Head Space	0
Atomic weight(Ethene)	: 28 g		

Qualifiers

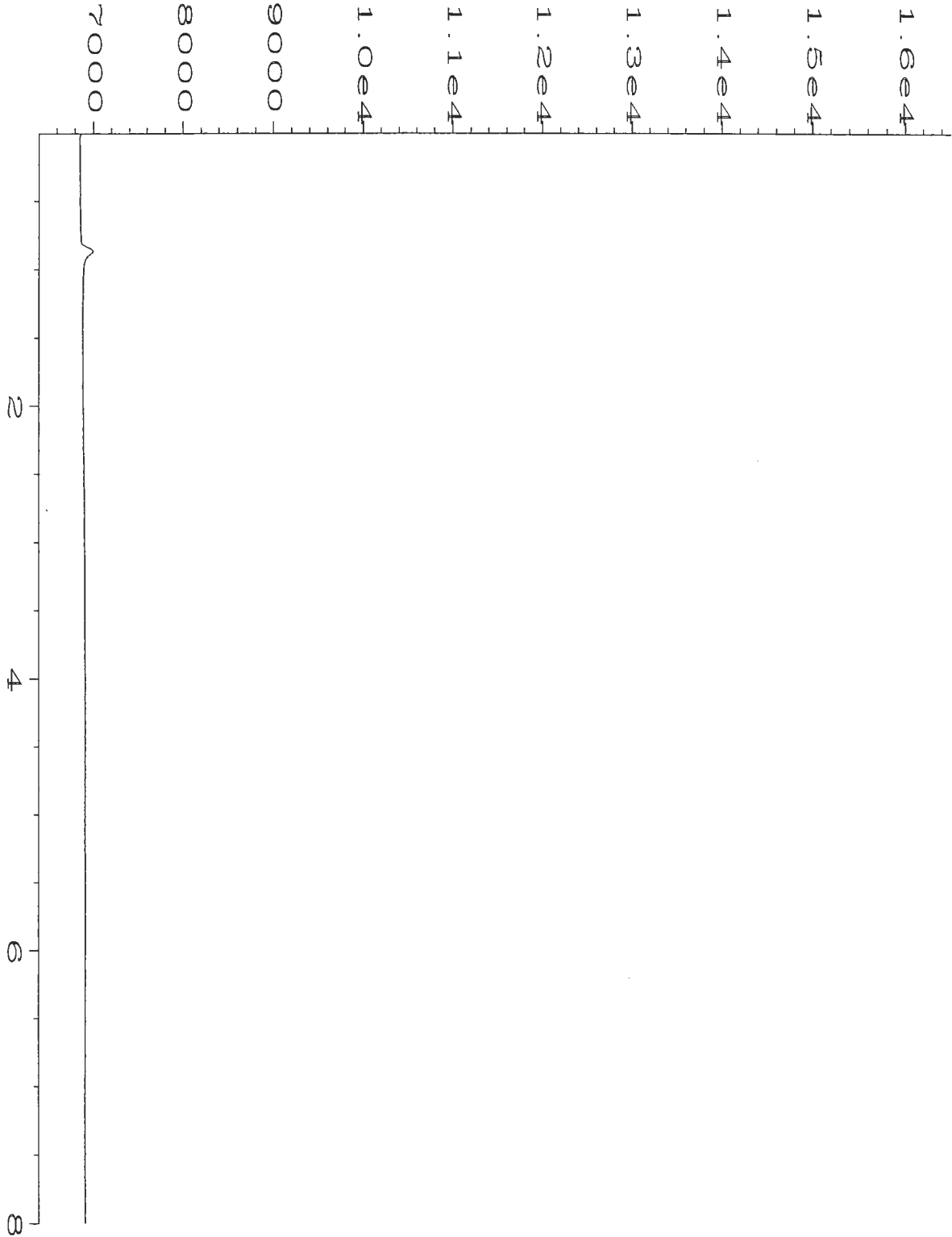
- E = Extrapolated value.
- U = Compound analyzed for, but not detected.
- B = Compound also found in the blank.
- RL = Reporting Limit.
- NA = Not Available/Not Applicable.

Note

Pressure calculated at sea level.


 Analyst


 Approved



Data File Name	: C:\HPCHEM\ALGA\DATA\GAS1001\028R0101.D	Page Number	: 1
Operator	: Leanne Hackney	Vial Number	: 28
Instrument	: ALGA	Injection Number	: 1
Sample Name	: 98-4271-06A	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	GAS.MTH
Acquired on	: 01 Oct 98 05:30 PM	Analysis Method	: GAS1001.MTH
Report Created on:	07 Oct 98 01:38 PM	Sample Amount	: 0
Last Recalib on	: 03 SEP 97 11:40 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: SAMP METHETH		
	: AL814		

Methane, Ethane, Ethene Report Form
Method Blank Report

Method Blank Number : GB100198A Client Project No. : 730769-01007
Date Extracted/Prepared : 10/1/98 Lab Work Order : 98-4271
Date Analyzed : 10/1/98 Dilution Factor : 1.00
Method : RSKSOP-175M
Matrix : Water
Lab File No. : GAS1001005

Compound Name	Cas Number	Sample Concentration mg/L	RL mg/L
Methane	74-82-8	U	0.0012
Ethane	74-84-0	U	0.0021
Ethene	74-85-1	U	0.0025

Qualifiers

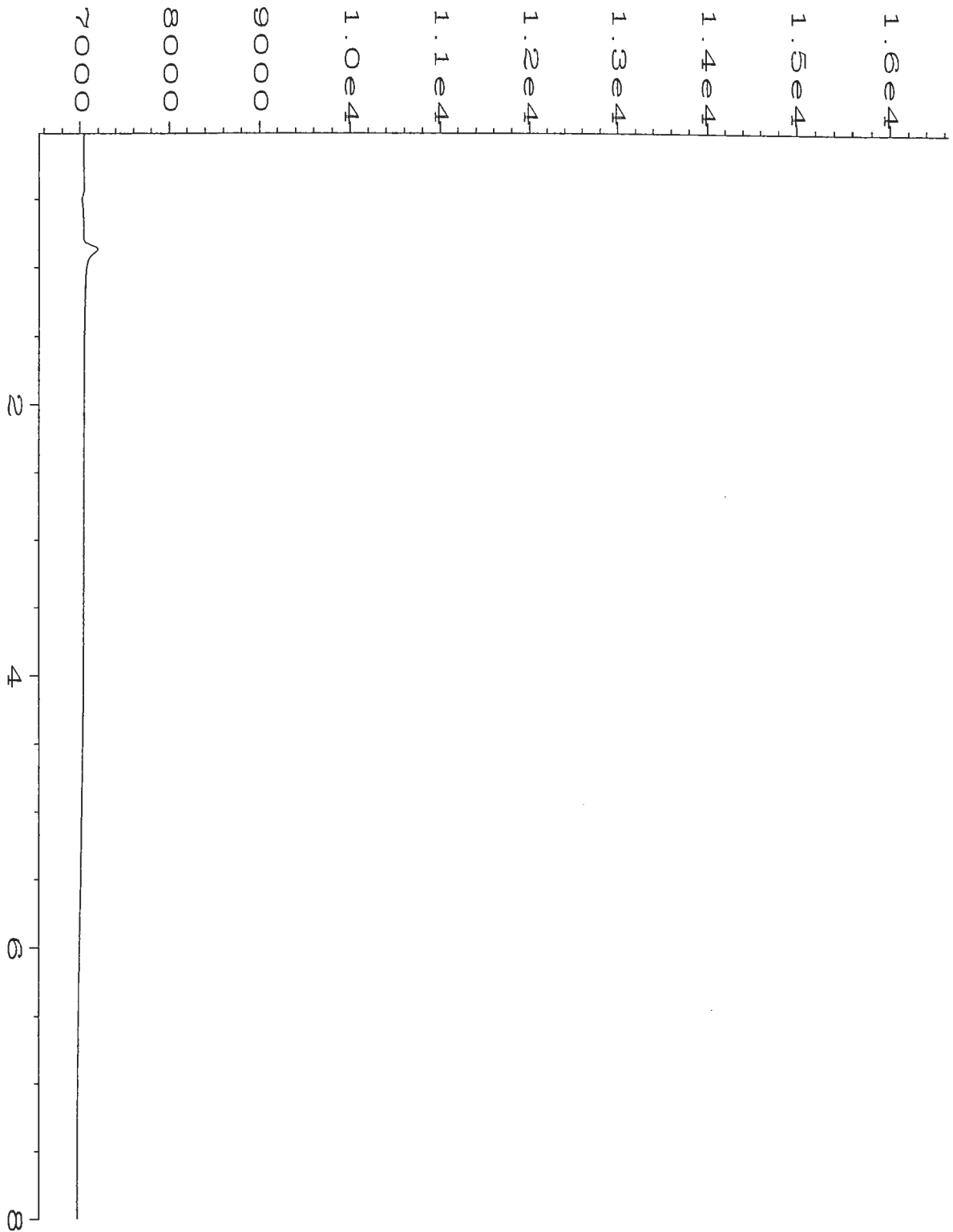
E = Extrapolated value.
U = Compound analyzed for, but not detected.
B = Compound also found in the blank.
RL = Reporting Limit.
NA = Not Available/Not Applicable.



Analyst



Approved



Data File Name : C:\HPCHEM\ALGA\DATA\GAS1001\005R0101.D
 Operator : Leanne Hackney Page Number : 1
 Instrument : ALGA Vial Number : 5
 Sample Name : GB100198A Injection Number : 1
 Run Time Bar Code: Sequence Line : 1
 Acquired on : 01 Oct 98 11:07 AM Instrument Method: GAS.MTH
 Report Created on: 07 Oct 98 01:34 PM Analysis Method : GAS1001.MTH
 Last Recalib on : 03 SEP 97 11:40 AM Sample Amount : 0
 Multiplier : 1 ISTD Amount :
 Sample Info : MBLK METH
 Displaced 4ml of distilled water in 43ml vial with Helium,

RSK-175M Gas Method
Methane, Ethane, Ethene Gas Matrix Spike / Matrix Spike Duplicate Report

Client Sample No.	: AL814	Client Project No.	: 730769-01007
Lab Sample No.	: 98-4271-06	Lab Work Order	: 98-4271
Date Sampled	: 9/21/98	EPA Method No.	: RSKSOP-175M
Date Received	: 9/25/98	Matrix	: Water
Date Prepared	: 10/1/98	Method Blank	: GB100198A
Date Analyzed	: 10/1/98	Lab File No's.	: GAS1001029,030
E.A. MS/MSD Spike Source No.	: 1719		

Compound	Spike Added (ug)	Sample ** Concentration (ug)	MS Concentration (ug)	MS %REC	QC Limits %REC
Methane Gas	500	0	292	58	47-88
Ethene Gas	500	0	178	36	29-53
Ethane Gas	500	0	267	53	41-77


Compound	Spike Added (ug)	MSD Concentration (ug)	MSD %REC	RPD	QC Limits	
					RPD	%REC
Methane Gas	500	292	58	0.0	0-16.4	47-88
Ethene Gas	500	180	36	1.1	0-26.4	29-53
Ethane Gas	500	270	54	1.1	0-26.3	41-77

RPD: 0 out of (3) outside limits.
 Spike Recovery: 0 out of (6) outside limits.


Notes

- * = Values outside of QC limits.
- ** = Sample concentration reported at DF=10.
- NA = Not analyzed/not available

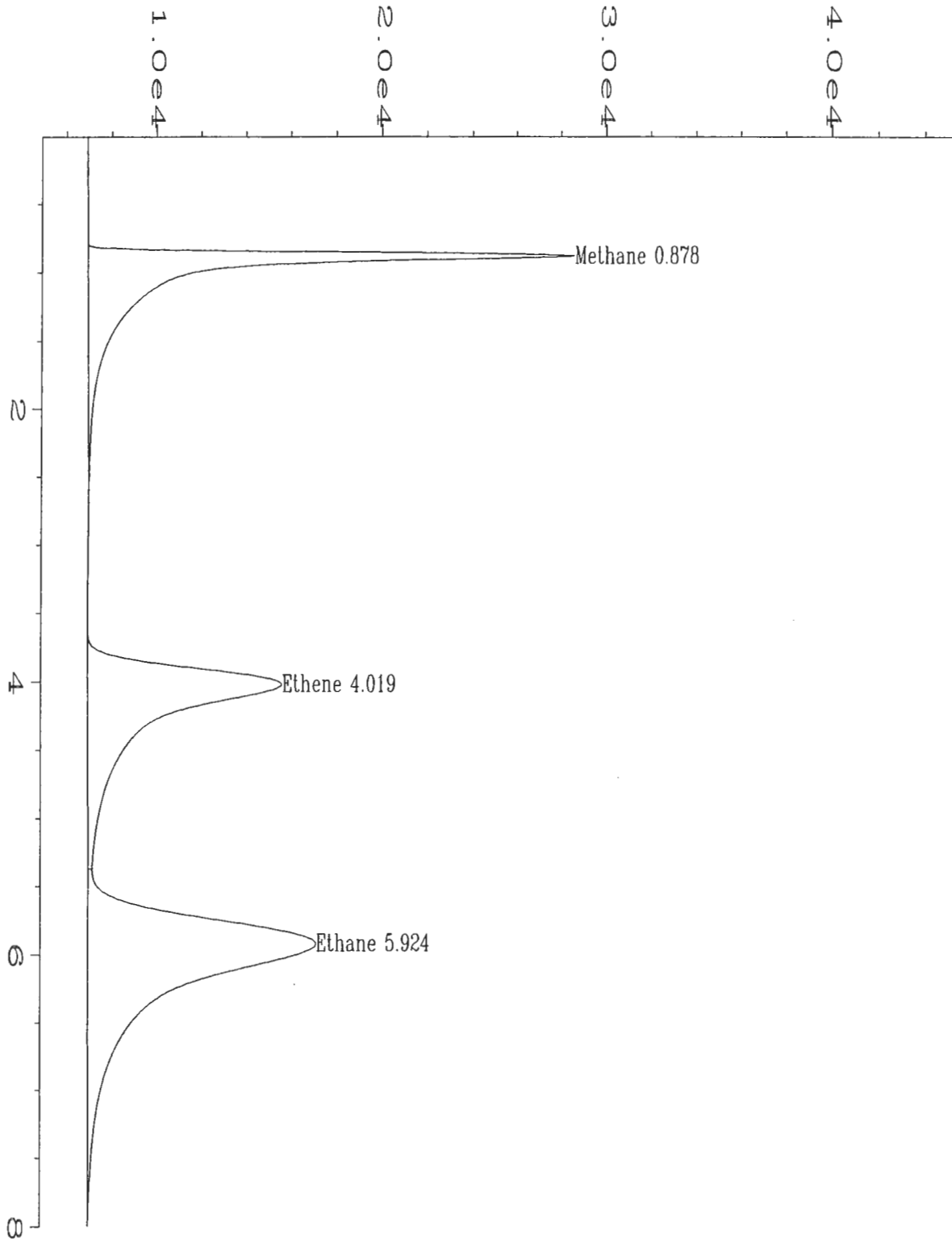
Note: The Spike was made by taking the sample and displacing 4ml of headspace with a 1% methane, ethane, ethene gas and shaking the VOA for 5 minutes. Then injecting 50 ul from the headspace into the GC resulting in a theoretical concentration of 500 ug. Sample injected at DF = 10.



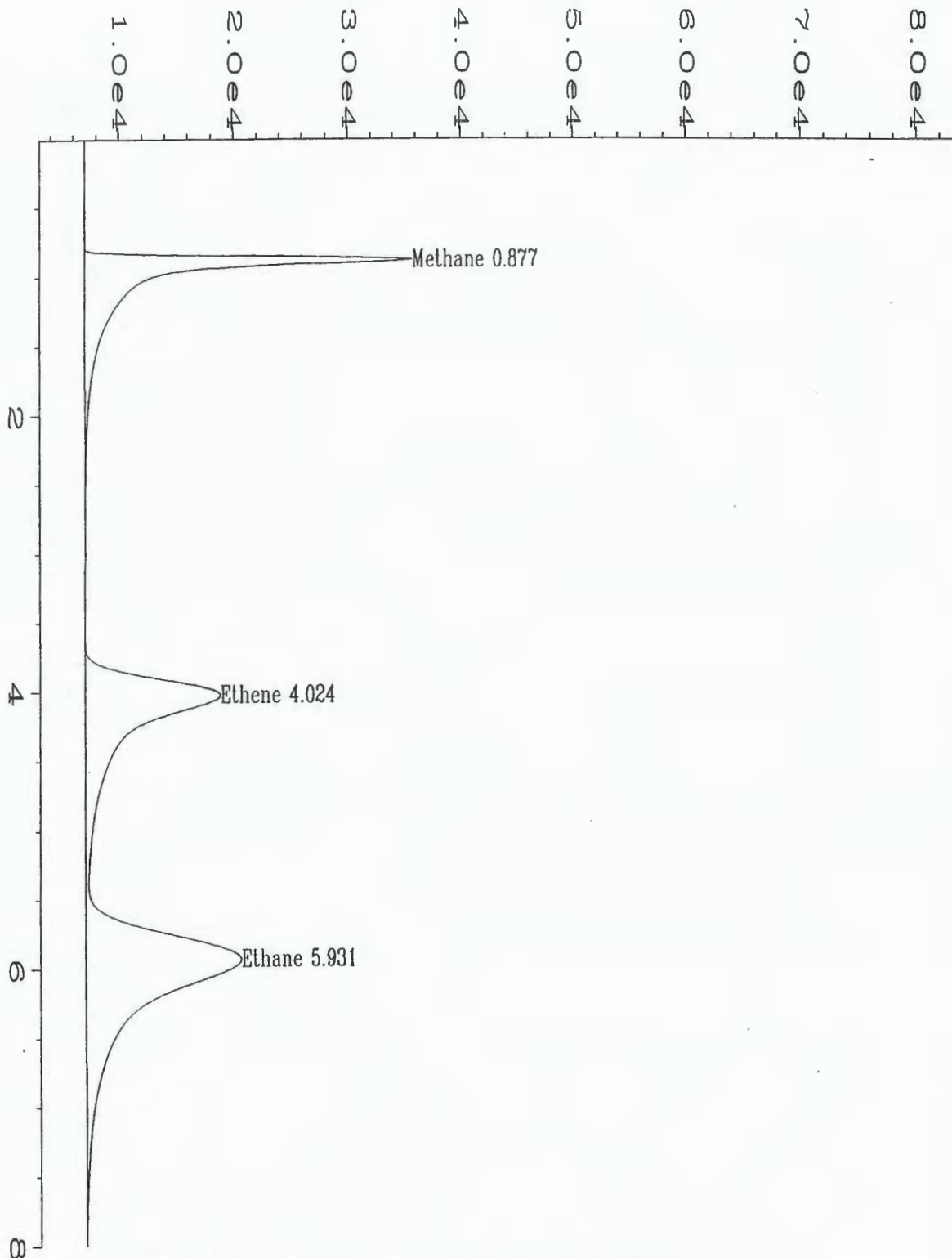
 Analyst



 Approved

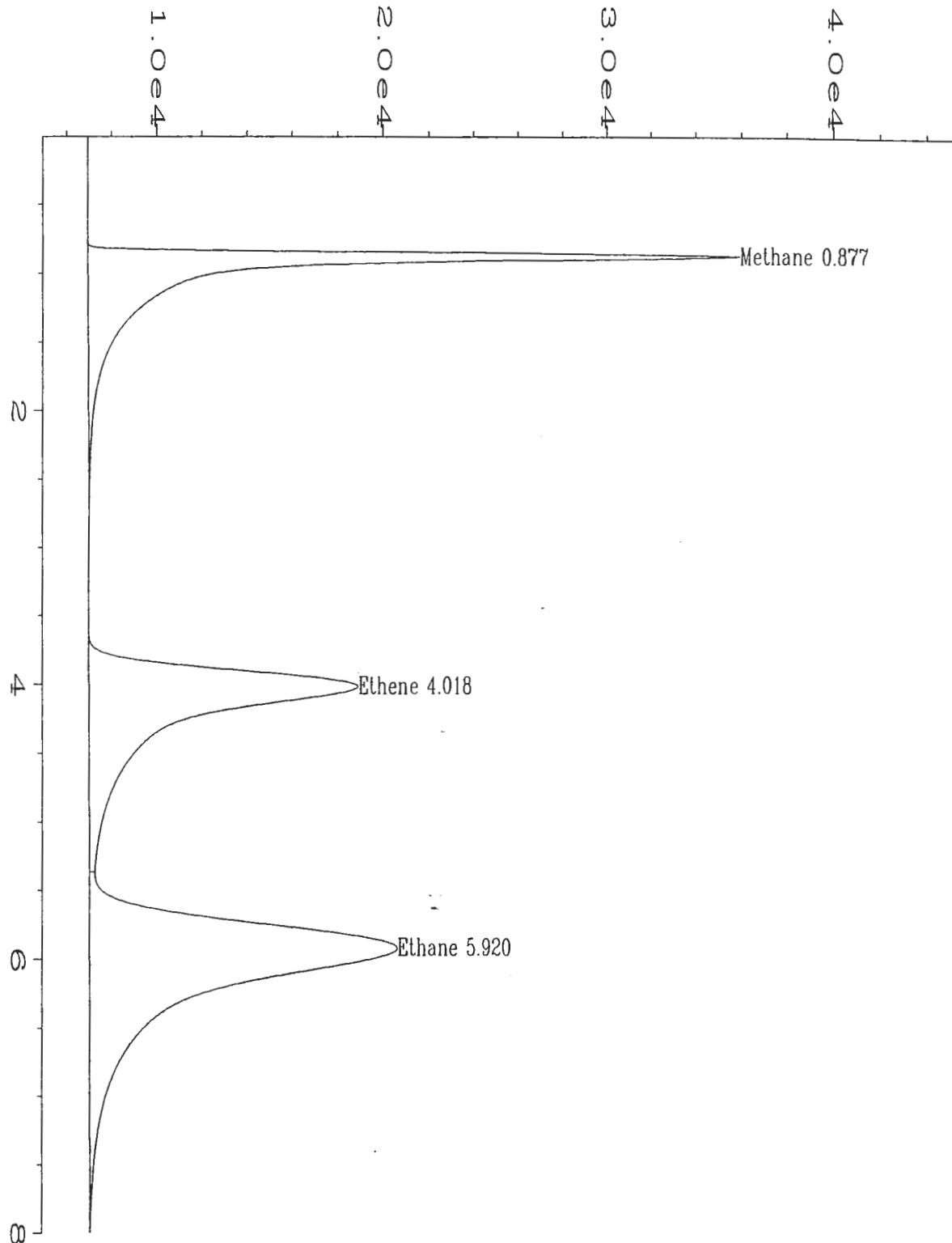


Data File Name	: C:\HPCHEM\ALGA\DATA\GAS1001\029R0101.D	Page Number	: 1
Operator	: Leanne Hackney	Vial Number	: 29
Instrument	: ALGA	Injection Number	: 1
Sample Name	: 98-4271-06AMS	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	GAS.MTH
Acquired on	: 01 Oct 98 08:11 PM	Analysis Method	: GAS1001.MTH
Report Created on:	07 Oct 98 01:38 PM	Sample Amount	: 0
Last Recalib on	: 03 SEP 97 11:40 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: MS METHETH		
	AL814		



Data File Name : C:\HPCHEM\ALGA\DATA\GAS1001\004R0101.D
 Operator : Leanne Hackney
 Instrument : ALGA
 Sample Name : LCS100198A
 Run Time Bar Code:
 Acquired on : 01 Oct 98 10:51 AM
 Report Created on: 07 Oct 98 01:34 PM
 Last Recalib on : 03 SEP 97 11:40 AM
 Multiplier : 1
 Sample Info : LCS METH
 Displaced 4ml of distilled water in 43ml vial with 1%

Page Number : 1
 Vial Number : 4
 Injection Number : 1
 Sequence Line : 1
 Instrument Method: GAS.MTH
 Analysis Method : GAS1001.MTH
 Sample Amount : 0
 ISTD Amount :



Data File Name	: C:\HPCHEM\ALGA\DATA\GAS1001\032R0101.D	Page Number	: 1
Operator	: Leanne Hackney	Vial Number	: 32
Instrument	: ALGA	Injection Number	: 1
Sample Name	: LCSD100198A	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	GAS.MTH
Acquired on	: 01 Oct 98 08:47 PM	Analysis Method	: GAS1001.MTH
Report Created on:	07 Oct 98 01:38 PM	Sample Amount	: 0
Last Recalib on	: 03 SEP 97 11:40 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: LCSD METH		
	Displaced 4ml of distilled water in 43ml vial with 1%		

